

BioVisionAlexandria
2010



New Life Sciences:
FUTURE PROSPECTS

11-15 April 2010

Conference Booklet

www.bibalex.org/biovisionalexandria

BioVisionAlexandria 2010
11–15 April
Bibliotheca Alexandrina

Conference Booklet

Organizing Committee

Ismail Serageldin

Director, Bibliotheca Alexandrina and Conference Chair

Nobel Laureates Committee

Agre, Peter

(Chemistry 2003)

Lehn, Jean Marie

(Chemistry 1987)

Roberts, Richard

(Physiology or Medicine 1993)

Varmus, Harold

(Physiology or Medicine 1989)

Wüthrich, Kurt

(Chemistry 2002)

Ernst, Richard

(Chemistry 1991)

Maskin, Eric

(Economics 2007)

Soyinka, Wole

(Literature 1986)

Warren, John Robin

(Physiology or Medicine 2005)

Zewail, Ahmed

(Chemistry 1999)

International Scientific Committee

Alberts, Bruce (USA)

Bouis, Howarth (USA)

Desmarescaux, Philippe (France)

Elliott, Malcolm (United Kingdom)

Gros, Francois (France)

Huanming, Yang (China)

Omi, Koji (Japan)

Rangel-Aldao, Rafael (Venezuela)

Rook, Graham (United Kingdom)

Van Montagu, Marc (Belgium)

Berg, Robert (USA)

Daar, Abdallah (Canada)

Elias, Zerhouni (USA)

Grenier, Christian (France)

Hassan, Mohamed (Sudan)

McConnell, David (Ireland)

Rabbinge, Raelf (Netherlands)

Rios, Gilbert (France)

Singer, Peter (Canada)

BA Steering/Scientific Committee

Abdelhady, Layla

El Beltagy, Adel

El-Faham, Mohamed

Madkour, Magdy

Maram, Heba

Soliman, Salah

Darwish, Omneya

El-Wakil, Marwa

Halim, Yehia

Mansour, Yehia

Nakhla, Rafik

Technical and Logistics Committee

Abd Eltawab, Omnia

Abdel Latif, Inas

Abdelrazek, Hanan

Abouela, Dina

Allam, Mohamed

Ammar, Sherif

Azab, Khaled

Abdel El- Rassoul, Marwa

AbdelHamid, Riham

Abdelwahab, Hala

Ali, Alyaa

Amin, Marwa

Anas, Nagy

Azzam, Cherouk

Bayoumi, Cherine

El Amir, Radwa

El Saadany, Aly

El- Sammak, Mohamed

El-Badry, Dalia

El-Deeb, Dahlia

El-Fadaly, Shaimaa

El-Fayoumi, Israa

El-Kourdy, Khaled

El-Mallakh, Lara

El-Shazly, Eman

El-Sherbiny, Ayman

El-Shobaky, Sara

Essalmawi, Hala

Ezzat, Amira

Farouk, Mustafa

Fathy, Hend
Ghazal, May
Gad, Mohamed
Gomaa, Mohamed
Gafour, Olfat
Hassan, Rasha
Hamdy, Heba
Helmy, Mona
Ibrahim, Shymaa
Kamal, Islam
Kamel, Omneya
Konswa, Nevin
Maamoun, Yasmin
Magdy, Doha
Magdy, Sally
Mahdy, Ashraf

Mahdy, Khaled
Mahdy, Marwa
Mahdy, Nehad
Merzeban, Faten
Mohamd, Shaimaa
Mossaad, Khaled
Mounir, Hanan
Moustafa, Passant
Nabeel, Ghada
Nafea, Mohamed
Nashaat, Karim
Nassar, Hadeer
Nofal, Khaled
Omar, Noha
Ragab, Esraa
Riad, Sherif

Roushdy, Marian
Saad, Ashraf
Said, Kholoud
Sakr, Ashraf
Salah, Mohamed
Saleh, Ayman
Salib, Mariam
Samir, Yasmin
Sobeih, Yousra
Sobhi, Mina
Soccar, Peter
Soliman, Asmaa
Wassef, Mayada
Zaki, Nihal

International Steering Committee

Amman, Klaus (Netherlands)
Derhak, Dianna (USA)
Laporte, Ronald (USA)
Marton-Lefevre, Julia (Switzerland)

Anhoury, Pierre (France)
Greenfield, Baroness Susan (United Kingdom)
Leisinger, Klaus M (Switzerland)
Nutti, Marilia (Brazil)

Alexandria, 12 April 2010

Dear Participant,

Welcome to the Library of Alexandria and welcome to the international conference BioVisionAlexandria 2010 organized in partnership with the World Life Sciences Forum, BioVision.

For eight years, esteemed scientists and global leaders were brought together at BioVision; whether BioVisionAlexandria or the World Life Sciences Forum, BioVision, to explore the fascinating field of New Life Sciences. During these conferences great minds have exchanged diverse views on the many aspects of Biotechnology, ranging from its capacity to change lives, its impact on the poor, to the vast possibilities of its applications.

This year at BioVisionAlexandria 2010, our aim is to explore the future. Policy makers and distinguished speakers from the fields of industry, science and civil society will get together to discuss new frontiers in life sciences with the aim of channeling its enormous potential to the benefit of humanity. Therefore, not only do we aim to discuss the novel discoveries and breakthroughs in science, but also to examine how the discoveries of today could create a better world for the coming generations.

For those who have attended BioVisionAlexandria before, and for those who are joining us for the first time, welcome! We hope that this conference will continue its tradition in serving as a platform for dialogue, exchange of ideas and creating ways to work together. We also wish you a productive and pleasant stay in Alexandria!

Ismail Serageldin



Librarian of Alexandria
Director of the Bibliotheca Alexandrina

Index

1. Provisional Program	7
2. Speakers List	29
3. Nobel Laureates	45
4. Speakers` Biographies	49
5. Partners, Sponsors and Exhibitors	103

Provisional Program


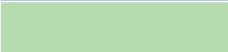



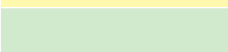


BVA 2010 Program at a Glance

Subject to Change

Sunday, 11 April 2010	08:30	Registration	
Monday, 12 April 2010 Nobel Day	08:00	<i>Registration (Throughout the Entire Conference Duration)</i>	
	11:00-12:30	Conference Opening Session (Featuring Eminent International and National Figures)	
	12:30-13:00	Networking Coffee/Tea Break	
	13:00-14:30	Session 1: Science and Technology: The Way to the Future	
	14:30-15:30	Lunch Break	
	15:30-17:00	Session 2: New Life Sciences: New Impacts	
	17:00-17:30	Networking Coffee/Tea Break	
	17:30-19:00	Evening Event 1: Nobel Round Table	
Tuesday, 13 April 2010 Plenary Sessions	08:00	<i>Registration (Throughout the Entire Conference Duration)</i>	
	09:00-10:30	Plenary Session 1 Genomics & Molecular Biology: The Biological Challenge	Track 1 <i>Membrane Technologies In MEDA-MENA Countries: Answering Water Issues: Plenum 1</i>
	10:30-11:00	Networking Coffee/Tea Break	
	11:00-12:30	Plenary Session 2 Biodiversity: Natural Wealth and Well-Being	Track 1 <i>Membrane Technologies In MEDA-MENA Countries: Answering Water Issues: Plenum 2</i>
	12:30-13:30	Lunch Break	
	13:30-15:00	Plenary Session 3 The Theory of Biorobs: Towards the Future (I)	Track 1 <i>Membrane Technologies In MEDA-MENA Countries: Answering Water Issues: Plenum 3</i>
	15:00-15:30	Networking Coffee/Tea Break	
	15:30-17:00	Plenary Session 4 The Theory of Biorobs: Towards the Future (II)	Track 2 <i>Geo-engineering: A New Hope for a Healthier Environment?</i>
	17:00-17:30	Networking Coffee/Tea Break	
	17:30-19:30	Plenary Session 5 Water: The Global Need and the Universal Management	Track 3 <i>International Cooperation for Development and Innovation</i>

Wednesday, 14 April 2010 Parallel Sessions	08:00	<i>Registration (Throughout the Entire Conference Duration)</i>			
	09:00-10:30	Panel A-1 Translational Medicine (Health)	Panel B-1: Climate Change: A Global Heritage (Environment)	Panel C-1 Agricultural Technologies Driving Sustainable Agriculture (Food and Agriculture)	Track 4 <i>Health Dangers of The Western Lifestyle; How Can Developing Countries Avoid Them?</i>
	10:30-11:00	Networking Coffee/Tea Break			
	11:00-12:30	Panel A-2: Biotechnology and Health: The Global Challenges (Health)	Panel B-2 Clean Energy Resources: Emerging Opportunities (Environment)	Panel C-2 Delivering Benefits from Agricultural Biotechnology (Food and Agriculture)	Track 5 <i>Research, Education, Innovation and Industry: The Gap Plenum 1</i>
	12:30-13:30	Lunch Break			
	13:30-15:00	Panel A-3 Access to Medicine (Health)	Panel B-3 Biotech, Environmental Safety and Agricultural Benefits: The Debate (I) (Environment)	Panel C-3 The 21 st Century Challenge: A Green Way to Sustainable Agriculture (Food and Agriculture)	Track 5 <i>Research, Education, Innovation and Industry: The Gap Plenum 2</i>
	15:00-15:30	Networking Coffee/Tea Break			
	15:30-17:00	Panel A-4 Cancer Care and Prevention: Novel Approaches (Health)	Panel B-4 Biotech, Environmental Safety and Agricultural Benefits: The Debate (II) (Environment)	Panel C-4 The 21 st Century Challenge: A Green Way to Global Food Security (Food and Agriculture)	Track 6 <i>Brain Aging- Brain Advancing: Plenum 1</i>
	17:00-17:30	Networking Coffee/Tea Break			
17:30-19:00	Evening Event 2: CEO Panel			Track 6 <i>Brain Aging- Brain Advancing: Plenum 2</i>	

Thursday, 15 April 2010	08:00	<i>Registration (Throughout the Entire Conference Duration)</i>			
	09:00-10:30	Panel A-5 New Technologies in Health: New Hope (Health)	Panel B-5 Green Technology and Sustainable Development: Better Prospects (Environment)	Panel C-5 Priorities in Food and Food Security (Food and Agriculture)	Track 7 <i>Academy of Scientific Research and Technology- Egypt</i>
	10:30-11:00	Networking Coffee/Tea Break			
	11:00-12:30	Plenary Session 6 Science Supercourse			Track 8 <i>Rethinking Science and Technology in the 21st Century</i>
	12:30-13:30	Lunch Break			
	13:30-15:00	Plenary Session 7 Reporting Session			
	15:00-15:30	Networking Coffee/Tea Break			
	15:30-17:00	Plenary Session 8 Closing Session			

	Nobel Day sessions
	Evening Events
	Plenary Sessions
	Theme A: Health
	Theme B: Environment
	Theme C: Food & Agriculture
	Tracks
	Free time

Detailed Program
(Subject to Change)

Monday, 12 April 2010 (Nobel Day)	
08:30	<i>Registration (Throughout the Entire Conference Duration)</i>
11:00-12:30 Day 1	<p>Conference Opening Session (Great Hall)</p> <p>Philippe Desmarescaux, <i>Chairman, the World Life Sciences Forum, BioVision (France)</i></p> <p>Koji Omi, <i>Founder and Chairman, the Science and Technology in Society (STS) Forum (Japan)</i></p> <p>Mohamed Hassan, <i>Executive Director, TWAS - the Academy of Sciences for the Developing World and President, African Academy of Sciences</i></p> <p>Christian Grenier, <i>CEO, the World Life Sciences Forum, BioVision (France)</i></p> <p>Ahmed Nazif, <i>Egyptian Prime Minister (Egypt)</i></p> <p>Welcome Note: Ismail Serageldin, <i>Director, Bibliotheca Alexandrina (Egypt)</i></p>
12:30-13:00	<i>Networking Coffee/Tea Break</i>
13:00-14:30 Day 1	<p>Session 1: Science and Technology: The Way to the Future (Great Hall)</p> <p>Chair: Julia Marton-Lefevre, <i>Director General, the World Conservation Union - IUCN (Switzerland)</i></p> <p>Rapporteur: Pierre Anhoury, <i>Senior Vice President, KantarHealth (France)</i></p> <p>Peter Agre, <i>Chemistry, 2003 (USA)</i></p> <p>Eric Maskin, <i>Economics, 2007 (USA)</i></p> <p>Wole Soyinka, <i>Literature, 1986 (Nigeria)</i></p>
14:30-15:30	<i>Lunch Break</i>
15:30-17:00 Day 1	<p>Session 2: New Life Sciences: New Impacts (Great Hall)</p> <p>Chair: Elias Zerhouni, <i>Former Director, National Institutes of Health and Senior Fellow, Bill & Melinda Gates Foundation (USA)</i></p> <p>Rapporteur: Pierre Anhoury, <i>Senior Vice President, KantarHealth (France)</i></p> <p>Richard Roberts, <i>Medicine, 1993 (USA)</i></p> <p>Kurt Wüthrich, <i>Chemistry, 2002 (Switzerland)</i></p> <p>John Robin Warren, <i>Physiology or Medicine, 2005 (Australia)</i></p>
17:00-17:30	<i>Networking Coffee/Tea Break</i>
17:30-19:00 Day 1	Evening Event: Nobel Round Table (Great Hall)

Tuesday, 13 April 2010	
08:00-	<i>Registration (Throughout the Entire Conference Duration)</i>
09:00-10:30	<p>Plenary Session 1: Genomics & Molecular Biology: The Biological Challenge (Great Hall)</p> <p><i>While Genomics is the study of the genomes of organisms, studying the roles and functions of single genes is the main concern of Molecular Biology. As Genomics and Molecular Biology are the most common topics of modern medical and biological research, it is our aim during this breakout session to focus on the actual development in these promising fields.</i></p> <p>Day 2</p> <p><u>Chair:</u> Alastair Kent, Director, Genetic Interest Group (UK) <u>Rapporteur:</u> Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Egypt)</p> <p>Adel Mahmoud, Professor, Department of Molecular Biology, Princeton University and Former President, Merck Vaccines (USA) Douglas Brutlag, Professor of Biochemistry and Medicine, Department of Biochemistry, Stanford University (USA) Yoshihide Hayashizaki, Project Director and Chief Scientist, Genome Exploration Research Group, Genomic Sciences Center, RIKEN (Japan) Gilbert Omenn, Professor of Medicine, Genetics, and Public Health, University of Michigan (USA) Huanming Yang, Director, Beijing Genomics Institute, Chinese Academy of Sciences and Director, Huada Genomics Research Center (China)</p>
09:00-10:30	<p>Track 1: Membrane Technologies in MEDA-MENA Countries: Answering Water Issues: Plenum 1 (Lecture Hall)</p> <p>Co-organized with the European Membrane House & SIMEV (Prof. Gilbert Rios)</p> <p>“Sustainable Water in MEDA-MENA Countries”</p> <p>Day 2</p> <p><i>In this opening session, the question of water will be examined in its geographical, societal, administrative and policy context at large. The strong need for new technologies to address today and tomorrow’s water challenges will be put forward by the speakers.</i></p> <p><u>Chair:</u> Alaa El-Din Abdin, Director, Strategic Resources Unit, NWRC (Egypt)</p> <p>Francois Guinot, Former President, French Academy of Technology (France) Muhammad Shatanawi, Professor, University of Jordan and UNESCO Chair, EOLSS (Jordan) Rafael Rodriguez, CSIC-Coordinator, MIRA Project, EU (Spain)</p>
10:30-11:00	<i>Networking Coffee/Tea Break</i>

<p>11:00-12:30</p> <p>Day 2</p>	<p>Plenary Session 2: Biodiversity: Natural Wealth and Well-Being (Great Hall)</p> <p><i>«Biological Diversity», or «Biodiversity», indicates species diversity and species richness. Biologists usually define biodiversity as the «totality of genes, species, and ecosystems of a region which presents the three levels identifying biological variety: genetic diversity, species diversity, and ecosystem diversity. Preserving nature and biodiversity are pressing needs now, thus expanding global collaboration towards biodiversity protection will initiate global common benefit. These biodiversity issues will be discussed while taking into account the effect of the new tools of biotechnology and gene manipulation.</i></p> <p>Chair: Magdy, Madkour Professor, Faculty of Agriculture, Ain Shams University (Egypt)</p> <p>Rapporteur: Rafik Nakhla, Vice President, Human Resources and Administration, Projacs (Egypt)</p> <p>Barbara Timmermann, Distinguished Professor and Chair, Department of Medicinal Chemistry, School of Pharmacy, University of Kansas (USA)</p> <p>Marc Van Montagu, President, the European Federation of Biotechnology- EFB (Belgium)</p> <p>Jeffrey McNeely, Senior Science Advisor, International Union for Conservation of Nature (IUCN) (Switzerland)</p> <p>Nina Fedoroff, Science and Technology Adviser to the Secretary of State and to the Administrator of USAID (USA)</p> <p>Russell A. Mittermeier, President, Conservation International (USA)</p>
<p>11:00-12:30</p> <p>Day 2</p>	<p>Track 1: Membrane Technologies in MEDA-MENA Countries: Answering Water Issues: Plenum 2 (Lecture Hall)</p> <p>Co-organized with the European Membrane House & SIMEV (Prof. Gilbert Rios)</p> <p>“Membranes for Water”</p> <p><i>Membrane technologies represent today an extraordinary opportunity to develop new solutions. Reminders of the trends of their development worldwide will be given. Membrane technologies are at their most effective when the specific constraints of its users have been taken into account from the start: the core of the session will thus be devoted to a dialogue with the Middle East and Mediterranean actors and stakeholders to understand their specific constraints.</i></p> <p>Chair: André Ayrat, Professor, European Membrane Institute of Montpellier (France)</p> <p>Damia Barcelo, Director, Catalan Institute on Water Research (Spain)</p> <p>Jörg Vienken, Vice-President, BioSciences-Fresenius (Germany)</p> <p>Chrystelle Langlais, Senior Engineer, SUEZ Environment (France)</p> <p>Michel Farcy, Vice-President, Pall Industry (France)</p>
<p>12:30-13:30</p>	<p>Lunch Break</p>

<p>13:30-15:00</p> <p>Day 2</p>	<p>Plenary Session 3: The Theory of Biorobs: Towards the Future (I) (Great Hall)</p> <p><i>Biorobots are now playing a progressively crucial role in bridging the worlds of biology and engineering. Their application varies from medicine and biology to industry and even entertainment. Hence, it is a major need to focus upon their biosystems in order to understand their exceptional performance. This should result in developing novel Biorobs that assist human beings in various aspects.</i></p> <p>Chair: <i>Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</i></p> <p>Rapporteur: <i>Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Egypt)</i></p> <p>Bruno Maisonnier, CEO, Aldebaran Robotics (France)</p> <p>Paolo Dario, Professor, Scuola Superiore Sant'Anna (Italy)</p> <p>Hiroshi Ishiguro, Professor, Osaka University (Japan)</p>
<p>13:30-15:00</p> <p>Day 2</p>	<p>Track 1: Membrane Technologies in MEDA-MENA Countries: Answering Water Issues: Plenum 3 (Lecture Hall)</p> <p>Co-organized with the European Membrane House & SIMEV (Prof. Gilbert Rios)</p> <p>“Membrane Technologies for MEDA-MENA Context”</p> <p><i>This session will show how membrane technologies can help solve health issues related to water: how membranes can stop the dissemination of the most toxic species into the environment, or how membranes offer new possibilities for artificial organs.</i></p> <p>Chair: <i>Louis Cot, Director, SIMEV and UNESCO Chair (France)</i></p> <p>Gilbert Rios, Chair, European Membrane House (France)</p> <p>Suzana Nunes, Principal Research Scientist, KAUST Membranes Research Center - Saudi Arabia (Germany)</p> <p>Jean-Christophe Schrotter, R&D Manager, VEOLIA-Membrane (France)</p> <p>Sami Sayadi, Director, Bio-processes Laboratory, University of Sfax (Tunisia)</p>
<p>15:00-15:30</p>	<p><i>Networking Coffee/Tea Break</i></p>
<p>15:30-17:00</p> <p>Day 2</p>	<p>Plenary Session 4: The Theory of Biorobs: Towards the Future (II) (Great Hall)</p> <p><i>Biorobots are now playing a progressively crucial role in bridging the worlds of biology and engineering. Their application varies from medicine and biology to industry and even entertainment. Hence, it is a major need to focus upon their biosystems in order to understand their exceptional performance. This should result in developing novel Biorobs that assist human beings in various aspects.</i></p> <p>Chair: <i>Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</i></p> <p>Rapporteur: <i>Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Egypt)</i></p> <p>Miguel Nicolelis, Professor of Neurobiology Biomedical Engineering and Psychological and Brain Sciences and Co-Director, Center for Neuroengineering, Duke University Medical (USA)</p> <p>Kevin Warwick, Professor of Cybernetics, University of Reading (UK)</p>

<p>15:30-17:00</p> <p>Day 2</p>	<p>Track 2: The Coming Climate Emergency: Implications for Coastal Cities Like Alexandria: Possible Geo-Engineering Solutions (Lecture Hall)</p> <p>Co-organized with the World Federation of United Nations Associations Applied Systems Analysis (Prof. Robert Berg)</p> <p><i>Climate trends predict severe damage to coastal cities like Alexandria. New data on storm surges, a phenomena likely to increase sharply in coming years, puts cities like Alexandria at high risk. Moreover, agricultural impacts from climate change will have serious consequences for cities. The global emergency fallback solution might well be geo-engineering, in which humanity manipulates the global climate to lower the world's temperature. Geo-engineering solutions should be developed in case mitigation and adaptation fail to prevent climate catastrophe. Governing well geo-engineering research and deployments will be a major challenge. Indeed, climate change will force profound relationship changes between humanity and the environment. How can all major parts of the world be more actively involved in these issues?</i></p> <p>Chair: Robert J. Berg, <i>Trustee, World Academy of Art and Science (USA)</i> Ulrich Cubasch, <i>Dean, Geoscience Faculty, Freie Universität Berlin (Germany)</i> Herbert Girardet, <i>Co-founder and Director, Programs, World Future Council (UK)</i> Jason Blackstock, <i>Fellow, Centre for International Governance Innovation and Research Scholar, International Institute for Applied Systems Analysis (Austria)</i> Walter Andresson, <i>President Emeritus, the World Academy of Art and Science (USA)</i></p>
<p>17:00-17:30</p>	<p><i>Networking Coffee/Tea Break</i></p>
<p>17:30-19:00</p> <p>Day 2</p>	<p>Plenary Session 5: Water: The Global Need and the Universal Management (Great Hall)</p> <p><i>Water is not only vital for living but is also is very essential for the healthy functioning of the earth's ecosystem and for sustainable human development, as its uses vary in agriculture, industry, household, environment and recreation. Almost all human uses require fresh water. Fresh water is a renewable resource. Nevertheless the world's supply of clean, fresh water is sustainably diminishing, while the water demand already surpasses supply in many parts of the world. Vital awareness of the global importance of preserving water and many approaches to the management and utilization of water resources should be one of our priorities in the 21st century.</i></p> <p>Chair: <i>tba</i></p> <p>Rapporteur: Rafik Nakhla, <i>Vice President, Human Resources and Administration, Projacs International (Egypt)</i></p> <p>Margaret Catley-Carlson, <i>Former Chair, Global Water Partnership and Chair, BOT Crop Diversity Trust (Canada)</i></p> <p>William Cosgrove, <i>Founder, Ecoconsult Inc. (Canada)</i></p> <p>Peter H. Gleick, <i>Co-founder and President, the Pacific Institute for Studies in Development, Environment, and Security (USA)</i></p> <p>Jean-Christophe Schrotter, <i>R&D Manager, VEOLIA-Membrane House (France)</i></p>

17:30-19:00	Track 3: International Cooperation for Development and Innovation (Lecture Hall)
	<i>Chair: tba</i> Christian Hülshörster , <i>Director, DAAD office in Cairo (Germany)</i>
Day 2	Abdel Hamid El-Zoheiry , <i>Coordinator, Research Development and Innovation Program, Ministry of Higher Education and Scientific Research (Egypt)</i> Raimund Jäger , <i>Head, Research Group "Biomedical Materials and Implants", Fraunhofer-Institute for Mechanics of Materials (Germany)</i> Kyriaki Papageorgiou , <i>Coordinator and Assistant, EU Science Counsellor (Cyprus)</i>

Wednesday, 14 April 2010

<p>9:00-10:30</p> <p>Day 3</p>	<p>Panel A-1: Translational Medicine - Health (Great Hall)</p> <p>Co-organized with the Simon Bolivar University (Prof. Raphael Rangel Aldao)</p> <p><i>The aim of this panel is to have a broad view of this emerging field. Translational Medicine is so vibrant that Science Magazine recently launched a new journal with that very same name. The session is divided in two consecutive sections that comprise a variety of initiatives from both the public and/or the private sector coming from different continents (Africa, America, and Europe). One section has to do with the formulation of policies to foster and facilitate the translation of cutting-edge knowledge from a host of sciences and engineering to health care and wellness, by either public institutes or start-up companies; and the other has to do with the execution of such policies with specific hands-on examples given by their players.</i></p> <p>Chair: <u>Raphael Rangel-Aldao</u>, Professor, Digital Molecular Medicine, Simon Bolivar University, (Venezuela)</p> <p>Co-Chair : <u>Anthony Bunn</u>, Director, MRC Innovation Centre (South Africa)</p> <p>Rapporteur: <u>Rafik Nakhla</u>, Vice President, Human Resources and Administration, Projacs International (Egypt)</p> <p>Francois Franceschi, Senior Director, Technology Rib-X, Inc. (USA)</p> <p>Janis K. Lazdins-Helds, Head, Novartis Vaccines Academy, Novartis Vaccines and Diagnostics (Italy)</p> <p>Maritha Kotze, CEO, Knowmix Cape Biotech Trust (South Africa)</p> <p>Rafael Rangel-Aldao, Professor, Digital Molecular Medicine, Simon Bolivar University (Venezuela)</p> <p>Yaqoub Ashhab, Director, Biotechnology Training and Research Unit, Palestine Polytechnic University - Hebron (Palestine)</p> <p>Anthony Bunn, Director, MRC Innovation Centre (South Africa)</p>
<p>9:00-10:30</p> <p>Day 3</p>	<p>Panel B-1: Climate Change: A Global Heritage - Environment (Small Theater)</p> <p><i>The 1992 UN Framework Convention on Climate Change (UNFCCC), the 1997 Kyoto Protocol, the Copenhagen Climate Change Conference 2009: Negotiations continue, yet the global worries do not come to an end. Climate change is the greatest global threat encountering our planet. Environmental, social, health and economic dangers are yet to come; the greenhouse effect and the global warming are just examples. Thinking of the terrifying future climate scenarios, a global legally binding deal is a pressing need.</i></p> <p>Chair: <u>Walter Andresson</u>, President Emeritus, the World Academy of Art and Science (USA)</p> <p>Rapporteur: <u>Salah Soliman</u>, Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Herbert Girardet, Co-founder and Director, Programs, World Future Council (UK)</p> <p>Robert J. Berg, Senior Advisor, World Federation of United Nations Associations (USA)</p> <p>Barry Worthington, Executive Director, United States Energy Association (USA)</p> <p>Gregor C. Leckebusch, Associate Professor, Freie Universität Berlin (Germany)</p>

<p>9:00-10:30</p> <p>Day 3</p>	<p>Panel C-1: Agricultural Technologies Driving Sustainable Agriculture – Food and Agriculture (Lecture Hall)</p> <p>Co-organized with Monsanto Company</p> <p>Chair: tba</p> <p>Rapporteur: Salah Hassouna, Professor, High Institute of Graduate Studies and Research, Alexandria University (Egypt)</p> <p>François Traoré, Cotton Grower (Burkina Faso)</p> <p>Ricardo Serra, Deputy President, Agriculture Association of Young Farmers-Spain (ASAJA), President, ASAJA Andalusia and ASAJA Seville and ASAJA Representative for EU and International Affairs (Spain)</p> <p>Adel Yaseen, Chairman and Managing Director, Fine Seeds and International. Deputy Chairman, Egyptian Seed Industry Association (ESIA) (Egypt)</p>
<p>9:00-10:30</p> <p>Day 3</p>	<p>Track 4: Health Dangers of the Western Lifestyle; How Can Developing Countries Avoid Them? (Delegates Hall)</p> <p>Co-organized with the University College London (Prof. Graham Rook)</p> <p><i>As populations change from a traditional rural existence to the lifestyle of modern cities, there is a change in patterns of disease. Many infectious diseases decline, but chronic inflammatory disorders (allergies, autoimmunity, inflammatory bowel disease and others) increase dramatically, as do some cancers and mood disturbances. The session will explain the changes in patterns of disease, why we think the changes happen, and what can be done to protect developing countries from this fate.</i></p> <p>Chair: Graham Rook, Professor of Medical Microbiology, University College London (UK)</p> <p>David Pritchard, Professor of Parasite Immunology, School of Pharmacy, University of Nottingham (UK)</p> <p>Graham Rook, Professor of Medical Microbiology, University College London (UK)</p> <p>Paolo Matricardi, Professor, Department of Pediatric Pneumology and Immunology, Charité University Medical Centre (Germany)</p>
<p>10:30-11:00</p>	<p>Networking Coffee/Tea Break</p>
<p>11:00-12:30</p> <p>Day 3</p>	<p>Panel A-2: Biotechnology and Health: The Global Challenges -Health (Great Hall)</p> <p><i>There is no bigger test for humanity than the crisis of global health challenges. Without biotechnology and science we can't do anything. The apparent benefits of biotechnology in the area of human health and life style has catapulted companies and governments alike to sit together and create a positive framework for the industry to foster for the good of one and all.</i></p> <p>Chair: Dianna Derhak, Director, Business Development, EPOS (USA)</p> <p>Rapporteur: Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Egypt)</p> <p>Michael Osborne, Director, the International Futures Programme and the Global Science Forum, OECD (France)</p> <p>Rodney Finalle, Director of Global Health, the Children's Hospital of Philadelphia (USA)</p> <p>Werner Christie, Former Norwegian Minister of Health (Norway)</p> <p>Joel Nobel, Founder and Professor Emeritus, ECRI Institute (USA)</p>

<p>11:00-12:30</p> <p>Day 3</p>	<p>Panel B-2: Clean Energy Resources: Emerging Opportunities- Environment (Small Theater)</p> <p><i>In 2006, about 18% of global final energy consumption came from renewables. While climate change concerns increase, they are always coupled with high oil prices. Thus government support towards renewable energy legislation increases. As renewable energy is also known as green or clean energy, much of the world today is converting to renewable energy sources in order to be more environment-friendly.</i></p> <p>Chair: Barry Worthington, Executive Director, United States Energy Association (USA)</p> <p>Rapporteur: Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Hani El-Nokraschy, CEO, Nokraschy Engineering GmbH (Germany)</p> <p>João Paes de Carvalho, Principal, BiznessBrazil (Brazil)</p> <p>Christoph Hesse, Assistant Professor in Architecture and Urban Design, Technical University Darmstadt (Germany)</p> <p>Salah Hassouna, Professor, High Institute of Graduate Studies and Research, Alexandria University (Egypt)</p>
<p>11:00-12:30</p> <p>Day 3</p>	<p>Panel C-2: Delivering Benefits from Agricultural Biotechnology -Food and Agriculture (Lecture Hall)</p> <p>Co-organized with Monsanto Company</p> <p>Chair: Hassan Moawadhe, Professor, National Reserach Center (Egypt)</p> <p>Rapporteur: tba</p> <p>Kinyua M'Mbijjewe, Monsanto Corporate Affairs Lead in Africa (Kenya)</p> <p>Sylvester O. Oikeh, Project Manager, Water Efficient Maize for Africa (WEMA), African Agricultural Technology Foundation (AATF) (Nigeria)</p> <p>Diran Makinde, Professor of Animal Science and Former Dean of the School of Agriculture, Rural Development and Forestry (Nigeria)</p>
<p>11:00-12:30</p> <p>Day 3</p>	<p>Track 5: Research, Education, Innovation and Industry: The Gap: Plenum 1 (Delegates Hall)</p> <p><i>As in both developed and developing countries the existence of a gap between the education especially universities and the industry is evident, the importance of bridging the gap is escalating. Accordingly, in developed and industrialized countries, strong links between industries and universities are being set. Sponsoring research and researchers should play a very important role in binding university and industry. Funding programs for continuing education is another example. Encouraging and linking innovation is by all means essential. So, where do we stand? And what are the possible ideas to build such bridges between education, industry and research?</i></p> <p>Chair: Morris Berrie, Co-Chairman and Managing Director, Tech Investor Ltd (UK)</p> <p>Morris Berrie, Co-Chairman and Managing Director, Tech Investor Ltd (UK)</p> <p>Iain Gillespie, Head, Biotechnology Division, Directorate for Science, Technology and Industry (France)</p> <p>Prabuddha Ganguli, CEO, Vision-IPR (India)</p> <p>Joe Fondacaro, President, Fondacaro & Associates Consulting, Demographic Info Biotechnology, Cincinnati Area (USA)</p>

12:30-13:30	Lunch Break
13:30-15:00	<p>Panel A-3: Access to Medicine -Health (Great Hall)</p> <p><i>Investing for life: meeting poor people's needs for access to medicines through responsible business practices. It means strengthening health care delivery systems, constructing access, enabling domestic intellectual property legislation, building effective domestic or regional drug regulatory systems, and providing sustainable finance for affordable and effective drugs.</i></p> <p>Chair: Yehia Zaky, Head, Academic and Cultural Affairs Sector, Bibliotheca Alexandrina (Egypt)</p> <p>Day 3 Rapporteur: Rafik Nakhla, Vice President, Human Resources and Administration, Projacs (Egypt)</p> <p>Jane Morris, Director, African Centre for Gene Technologies (South Africa)</p> <p>Christopher Hentschel, President and CEO, Medicines for Malaria Venture (Switzerland)</p> <p>Klaus M. Leisinger, President and Executive Director, Novartis Foundation for Sustainable Development (Switzerland)</p> <p>Peter Singer, Professor of Medicine, University Health Network and University of Toronto (Canada)</p>
13:30-15:00	<p>Panel B-3: Biotech, Environmental Safety and Agricultural Benefits: The Debate (I) – Environment (Small Theater)</p> <p><i>Many Biotech tools are considered a “powerful and safe» way to improve agriculture and the environment, while others view them as a basic threat. These opposing views create a dilemma. Thus, the public debate about the use of plant biotechnology has intensified in recent years, but also the research in this field is achieving booming progress.</i></p> <p>Day 3 Chair: Huanming Yang, Co-Vice Chairman, EAGLES (China)</p> <p>Rapporteur: Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Biljana Papazov, Botanical Garden, the University of Bern (Netherlands)</p> <p>Frank Shotkoski, Director, Agricultural Biotechnology Support Project (ABSP) II, College of Agriculture and Life Sciences, Cornell University (USA)</p> <p>Marilia Nutti, Researcher, National Research Center on Food Technology, Embrapa (Brazil)</p>

<p>13:30-15:00</p> <p>Day 3</p>	<p>Panel C-3: The 21st Century: A Green Way to Global Food Security - Food and Agriculture (Lecture Hall)</p> <p>Co-organized with the Norman Borlaug Institute for Crop Improvement (Prof. Malcolm Elliott)</p> <p>“A Tribute to Norman Borlaug”</p> <p>Chair: Malcolm Elliott, Executive Director, the Norman Borlaug Institute for Crop Improvement (UK)</p> <p>Rapporteur: Salah Hassouna, Professor, High Institute of Graduate Studies and Research, Alexandria University (Egypt)</p> <p>Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p> <p>Swapan Datta, Deputy Director General, Indian Council of Agricultural Research (India)</p> <p>Adel El-Beltagy, Chair, Global Forum on Agricultural Research (Egypt)</p> <p>Norman Uphoff, Professor, Cornell International Institute for Food, Agriculture and Development (USA)</p>
<p>13:30-15:00</p> <p>Day 3</p>	<p>Track 5: Research, Education, Innovation and Industry: The Gap: Plenum 2 (Delegates Hall)</p> <p><i>As in both developed and developing countries the existence of a gap between the education especially universities and the industry is evident, the importance of bridging the gap is escalating. Accordingly, in developed and industrialized countries, strong links between industries and universities are being set. Sponsoring research and researchers should play a very important role in binding university and industry. Funding programs for continuing education is another example. Encouraging and linking innovation is by all means essential. So, where do we stand? And what are the possible ideas to build such bridges between education, industry and research?</i></p> <p>Chair: Morris Berrie, co-Chairman and Managing Director, Tech Investor Ltd (UK)</p> <p>Amir Dossal, Executive Director, the United Nations Office for Partnerships (USA)</p> <p>Brian F.C. Clark, Vice President, European Federation of Biotechnology (Denmark)</p> <p>Anatole Krattiger, Research Professor, Arizona State University (USA)</p> <p>Claire Elizabeth Cockcroft, Head, External Relations, the Babraham Institute (UK)</p>
<p>15:00-15:30</p>	<p>Networking Coffee/Tea Break</p>

<p>15:30-17:00</p> <p>Day 3</p>	<p>Panel A-4: Cancer Care and Prevention: Novel Approaches - Health (Great Hall)</p> <p>Co-organized with KantarHealth (Prof. Pierre Anhoury)</p> <p><i>Cancer is a major health problem accounting for nearly 7.4 million deaths (around 13% of all deaths) in 2004. Deaths from cancer worldwide are projected to continue rising, with an estimated 12 million deaths in 2030. Many societies and institutions have worked to diminish suffering from cancer through research, education, advocacy and service. All these efforts aim to reduce cancer incidence, mortality rates and improve the quality of life for all cancer survivors. Various institutions have developed national worldwide objectives for prevention and early detection of that serious health problem.</i></p> <p>Chair: <i>Farha Abd El-Aziz, Vice President, Mansoura University (Egypt)</i></p> <p>Rapporteur: <i>Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Egypt)</i></p> <p><i>Pierre Anhoury, Senior Vice President, KantarHealth (France)</i></p> <p><i>Clet Niyikiza, Vice President of GlaxoSmithKline (USA)</i></p> <p><i>Ahmed ElZawawy, President and First Founder, International Campaign for Establishment and Development of Oncology Centers (Egypt)</i></p> <p><i>David Kerr, Rhodes Professor of Clinical Pharmacology and Cancer, University of Oxford (UK)</i></p> <p><i>Pierre Bey, Former Director, Institut Curie (France)</i></p>
<p>15:30-17:00</p> <p>Day 3</p>	<p>Panel B-4: Biotech, Environmental Safety and Agricultural Benefits: The Debate (II) – Environment (Small Theater)</p> <p><i>Many Biotech tools are considered a “powerful and safe» way to improve agriculture and the environment, others view them as a basic threat. These opposing views create a dilemma. Thus, the public debate about the use of plant biotechnology has intensified in recent years, but also the research in this field is achieving booming progress.</i></p> <p>Chair: <i>Huanming Yang, Co-Vice Chairman, EAGLES (China)</i></p> <p>Rapporteur: <i>Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</i></p> <p><i>Daniel Pagliano, Director, Latin American Federation of National Biotechnology Companies (Uruguay)</i></p> <p><i>Villoo Morawala Patell, Founder and CMD, Avesthagen Limited (India)</i></p> <p><i>Effat Badr, Professor Emeritus, Faculty of Agriculture, Alexandria University (Egypt)</i></p> <p><i>Carmela Rivero, Vice President, Research and Development, Latin America Foods, PepsiCo (Mexico)</i></p>

<p>15:30-17:00</p> <p>Day 3</p>	<p>Panel C-4: The 21st Century Challenge: A Green Way to Sustainable Agriculture - Food and Agriculture (Lecture Hall)</p> <p><i>“A Tribute to Norman Borlaug”</i></p> <p>Co-organized with the Norman Borlaug Institute for Crop Improvement (Prof. Malcolm Elliott)</p> <p>Chair: Malcolm Elliott, Executive Director, the Norman Borlaug Institute for Crop Improvement (UK)</p> <p>Rapporteur: Salah Hassouna, Professor, High Institute of Graduate Studies and Research, Alexandria University (Egypt)</p> <p>Edward Cocking, Director, the Centre for Crop Nitrogen Fixation, University of Nottingham (UK)</p> <p>Klaus Ammann, Guest Professor, Delft University of Technology (The Netherlands)</p> <p>Clive James, Chairman and Founder, ISAAA (Cayman Islands)</p> <p>Magdy Madkour, Professor, Faculty of Agriculture, Ain Shams University (Egypt)</p>
<p>15:30-17:00</p> <p>Day 3</p>	<p>Track 6: Brain Aging-Brain Advancing: Plenum 1 (Delegates Hall)</p> <p>Co-organized with DaeDalus</p> <p>DAEDALUS and the Bibliotheca Alexandrina, within the framework of the BIOVISION 2010, are proud to co-organize a focused session on a state-of-art issue related to advancements of brain-related research, under the general theme «Brain Aging - Brain Advancing», which will discuss topics concerning Neurosurgery, Neuroprosthetics and Neuroengineering. Issues like Brain Modeling, Cognitive Sciences, and Brain Machine Interfaces will be presented among other related items.</p> <p>Chair: tba</p> <p>Evangelos M. Mylonas, R & D Director, DAEDALUS INFORMATICS Ltd (Greece)</p> <p>José León-Carrión, Human Neuropsychology Laboratory, Facultad de Psicología, University of Seville (Spain)</p> <p>Kafetzopoulos Dimitris, Principal Researcher, Foundation for Research and Technology (FORTH), Institute of Molecular Biology and Biotechnology (IMBB) (Greece)</p> <p>Periklis Ktonas, Professor Emeritus, Electrical and Computer Engineering Department, University of Houston and Special Consultant, Department of Psychiatry, University of Athens (Greece)</p>
<p>17:00-17:30</p>	<p>Networking Coffee/Tea Break</p>
<p>17:30-19:00</p> <p>Day 3</p>	<p>Evening Event: CEO Panel (Great Hall)</p> <p>Chair: Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p> <p>Jacques-François Martin, President and CEO, Parteurop (France)</p> <p>Clet Niyikiza, Vice President of GlaxoSmithkline (USA)</p> <p>Paul Herrling, Head, Corporate Research, Novartis International AG (Switzerland)</p> <p>James Geraghty, Senior Vice President, Genzyme (USA)</p> <p>Haskell Sears Ward, Senior Vice President, Government Relations, SEACOM (USA)</p>

17:30-19:00	Track 6: Brain Aging-Brain Advancing: Plenum 2 (Delegates Hall)
	Co-organized with DaeDalus
Day 3	<p><i>DAEDALUS and the Bibliotheca Alexandrina, within the framework of the BIOVISION 2010, are proud to co-organize a focused session on a state-of-art issue related to advancements of brain-related research, under the general theme «Brain Aging - Brain Advancing», which will discuss topics concerning Neurosurgery, Neuroprosthetics and Neuroengineering. Issues like Brain Modeling, Cognitive Sciences, and Brain Machine Interfaces will be presented among other related items.</i></p>
	Chair: tba
	<p>Damianos E. Sakas, Professor of Neurosurgery, University of Athens, Medical School Evangelismos Hospital (Greece)</p>
	<p>Michalis Zervakis, Director, the Digital Image and Signal Processing Laboratory, Technical University of Crete (Greece)</p>
	<p>Nitish V. Thakor, Professor of Biomedical Engineering, Johns Hopkins University (USA)</p>
	<p>Andrew C. Papanicolaou, Director, Center for Clinical Neurosciences, the University of Texas Medical School (USA)</p>

Thursday, 15 April 2010

<p>9:00-10:30</p> <p>Day 4</p>	<p>Panel A-5: New Technologies in Health: New Hope - Health (Great Hall)</p> <p><i>Gene technology and Biotechnology open the door to more and more research and discoveries in the medical and pharmaceutical field. But, do new technologies really offer hope to finding treatment to all incurable diseases? They certainly do not supply a magic wand, yet they are compelling and effective technologies to provide promising treatments for a lot of diseases. So, what does new technology offer and what are its newest implications?</i></p> <p>Chair: <i>Yehia Zaky, Head, Academic and Cultural Affairs Sector, Bibliotheca Alexandrina (Egypt)</i></p> <p>Rapporteur: <i>Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Egypt)</i></p> <p>Hassan Azzazy, Chairman, Department of Chemistry, the American University in Cairo (Egypt)</p> <p>Heba Kassem, Director, Clinical Genomics Center, Faculty of Medicine, Alexandria University (Egypt)</p> <p>Alexander von Gabain, Professor, the Max F. Perutz Laboratories, the University of Vienna (Austria)</p> <p>Saber Hussain, Scientist—Group Lead, Biological Interaction of Nanomaterials Applied Biotechnology, Human Effectiveness Directorate, Air Force Research Laboratory, Wright Patterson Air Force Base (USA)</p>
<p>9:00-10:30</p> <p>Day 4</p>	<p>Panel B-5: Green Technology and Sustainable Development: Better Prospects - Environment (Lecture Hall)</p> <p><i>While we all can act to save our planet by simple conservation methods, Green Technology is indeed our only hope to do this. Considering that the environment serves as the backbone of sustainable development, approaches toward finding solutions to problems threatening the continuity of the whole environment are pressing needs. Concisely, it is all about equilibrating the need of people for social and economic development with the need to save our environment in order to sustain this development in present and in the future.</i></p> <p>Chair : <i>Jeffrey McNeely, Senior Science Advisor, International Union for Conservation of Nature (IUCN) (Switzerland)</i></p> <p>Rapporteur: <i>Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</i></p> <p>João Paes de Carvalho, Principal, BiznessBrazil (Brazil)</p> <p>Philip Wexler, Technical Information Specialist, National Library of Medicine (USA)</p> <p>Tobias Wagner, Research Associate, Technische Universität München (Germany)</p>

<p>9:00-10:30</p> <p>Day 4</p>	<p>Panel C-5: Priorities in Food and Food Security - Food and Agriculture (Small Theater)</p> <p><i>Creating a sustainable source for adequate and safe food is the greatest challenge of this century. As the global demand of food is continuously escalating, the need to quickly translate the research into practice is big. So, it is of global significance to support research in areas which have intense implications for food security and nutrition. Therefore, it is important to know what are the priorities in food and how can we enhance the quality for improved nutrition.</i></p> <p>Chair: Robert J. Berg, Senior Advisor, World Federation of United Nations Associations (USA)</p> <p>Rapporteur: Salah Hassouna, Professor, High Institute of Graduate Studies and Research, Alexandria University, (Egypt)</p> <p>Marc Van Montagu, Elected and Acting president, the European Federation of Technology (Belgium)</p> <p>Rajul Pandya-Lorch, Head, IFPRI'S 2020 Vision for Food, Agriculture and the Environment Initiative (USA)</p> <p>Vivian Lowery Derryck, Senior Vice President and Director, Public Policy, the Academy for Educational Development (USA)</p> <p>Norman Uphoff, Professor, Cornell International Institute for Food, Agriculture and Development (USA)</p>
<p>9:00-10:30</p> <p>Day 4</p>	<p>Track 7: Academy of Scientific Research and Technology - Egypt (ASRT) (Delegates Hall)</p> <p>Co-organized with ASRT (Prof. Tarek Hussein)</p> <p><i>During the session, the attendees will have the chance to know details about the Egyptian Academy of Scientific Research and Technology (ASRT), its facilities, fellowship programs, M.Sc. and Ph.D. research grants and monetary support to inventors and innovators. It will also showcase the state prizes, ASRT fund for scientific studies and the ASRT ongoing programs and international agreements. Moreover, a detailed overview of the national strategy for genetic engineering and biotechnology including its achievements, impact assessment and future plan will be presented. In this session, ASRT President will introduce the Egyptian Academy of Youth (EAY).</i></p> <p>Chair: tba</p> <p>Tarek Hussein, President, Egyptian Academy of Scientific Research & Technology (Egypt)</p> <p>Mahmoud Sakr, Vice President, ASRT (Egypt)</p> <p>Mervat El Shabrawy, Professor, Faculty of Medicine, Suez Canal University Supervisor of the Invention and the Innovation Development Sector, ASRT (Egypt)</p> <p>Tarek Kapiel, Supervisor, the Invention and the Innovation Development Sector, ASRT (Egypt)</p> <p>Nadia Alansary, Technical Assistant, President Office, ASRT (Egypt)</p>
<p>10:30-11:00</p>	<p><i>Networking Coffee/Tea Break</i></p>

<p>11:00-12:30</p> <p>Day 4</p>	<p>Plenary Session 6: Science Supercourse (Great Hall)</p> <p>Chair: Ronald Laporte, Professor of Epidemiology, Graduate School of Public Health, University of Pittsburgh (USA)</p> <p>Rapporteur: Rafik Nakhla, Vice President, Human Resources and Administration, Projac International (Egypt)</p> <p>Key Note Presentation: Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p> <p>Ronald Laporte, Professor of Epidemiology, Graduate School of Public Health, University of Pittsburgh (USA)</p> <p>Eugene Shubnikov, Research Scientist, Institute of Internal Medicine, Novosibirsk (Russia)</p> <p>Faina Linkov, Research Assistant Professor of Medicine, University of Pittsburgh, School of Medicine (USA)</p> <p>Francois Sauer, CEO, Trans Am Group (USA)</p> <p>Jianshi Huang, Assistant President, Chinese Academy of Medical Sciences (China)</p> <p>Najeeb El Shorbaji, Coordinator, Health Information Support, WHO Regional Office for the Eastern Mediterranean (Egypt)</p> <p>Nicolas Padilla, Professor, School of Nursing and Obstetrics, Celaya University of Guanajuato (Mexico)</p> <p>Noha Adly, Deputy Head, Information Communication Technology Sector, Bibliotheca Alexandrina (Egypt)</p>
<p>11:00-12:30</p> <p>Day 4</p>	<p>Track 8: Rethinking Science and Technology in the 21st Century (Delegates Hall)</p> <p><i>Rethinking science and technology for the 21st Century: society is dependent on science and technology. The only way to use Earth resources at the rate we do is through the support of scientific discovery and technology innovation. But this can only be sustained through increasing the rate with which new discoveries are made and new technology innovations are implemented.</i></p> <p>Chair: Peter Singer, Professor of Medicine, University Health Network and University of Toronto (Canada)</p> <p>Calestous Juma, Professor of the Practice of International Development and Director, the Science, Technology, and Globalization Project, Belfer Center for Science and International Affairs, Harvard University (USA)</p> <p>Claudio Carlone, Chairman, Hypothesis (Italy)</p> <p>John Kilama, President, Global Bioscience Development Institute (USA)</p> <p>Mona K. Marei, Head, Tissue Engineering Laboratories, Faculty of Dentistry, Alexandria University (Egypt)</p> <p>Dianna Derhak, Director, Business Development, EPOS (USA)</p>
<p>12:30-13:30</p>	<p>Lunch Break</p>

<p>13:30-15:00</p> <p>Day 4</p>	<p>Plenary Session 7: Reporting Session (Great Hall)</p> <p><i>Plenary Sessions: Rafik Nakhla, Vice President, Human Resources and Administration, Projac International (Egypt)</i></p> <p><i>Environment Stream: Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</i></p> <p><i>Health Stream: Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Egypt)</i></p> <p><i>Food and Agriculture Stream: Salah Hassouna, Professor, High Institute of Graduate Studies and Research, Alexandria University (Egypt)</i></p>
<p>15:00-15:30</p>	<p><i>Networking Coffee/Tea Break</i></p>
<p>15:30-17:00</p> <p>Day 4</p>	<p>Plenary Session 8: Closing Session (Great Hall)</p> <p><i>Richard Roberts, Medicine 1993 (UK)</i></p> <p><i>Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</i></p> <p><i>Francois Gros, Permanent Honorary Secretary, Académie des Sciences (France)</i></p>

Speakers List



Nobel Laureates

Agre, Peter

Chemistry 2003 (USA)

Session 1

Maskin, Eric

Economics 2007 (USA)

Session 1

Roberts, Richard

Medicine 1993 (USA)

Session 2, Closing Session

Soyinka, Wole

Literature 1986 (Nigeria)

Session 1

Warren, John Robin

Physiology or Medicine 2005 (Australia)

Session 2

Wüthrich, Kurt

Chemistry 2002 (Switzerland)

Session 2

Speakers

A

Abd El-Aziz, Farha

Vice President, Mansoura University (Egypt)

Panel A-4

Abdin, Alaa El-Din

Director, Strategic Resources Unit, NWRC (Egypt)

Track 1 Plenum 1

Adly, Noha

Deputy Head, Information Communication Technology Sector, Bibliotheca Alexandrina (Egypt)

Plenary Session 6

Alansary, Nadia

Technical Assistant, President Office, Academy of Scientific Research and Technology (Egypt)

Track 7

Al Shorbaji, Najeeb

Director, Knowledge Management and Sharing (Switzerland)

Plenary Session 6

Ammann, Klaus

Guest Professor, Delft University of Technology (The Netherlands)

Panel C-4

Anderson, Walter Truett

President Emeritus, World Academy of Art and Science (USA)

Track 2, Panel B-1

Anhoury, Pierre

Senior Vice President, KantarHealth (France)

Session 1, Session 2, Panel A-4

Ashhab, Yaqoub

Director, Biotechnology Training and Research Unit, Palestine Polytechnic University (Palestine)

Panel A-1

Ayral, André

Professor, European Membrane Institute of Montpellier (France)

Track 1 Plenum 2

Azzazy, Hassan

Chairman, Department of Chemistry, the American University in Cairo (Egypt)

Panel A-5

B

Badr, Effat

Professor Emeritus, Department of Genetics, Faculty of Agriculture, Alexandria University (Egypt)

Panel B-4

Barcelo, Damia

Director, Catalan Institute on Water Research (Spain)

Track 1 Plenum 2

Berg, Robert J.

Senior Advisor, World Federation of United Nations Associations (USA)

Track 2, Panel B-1, Panel C-5

Berrie, Morris

Co-Chairman and Managing Director, Tech Investor Ltd (UK)

Track 5 Plenum 1, Track 5 Plenum 2

Bey, Pierre

Former Director, Institut Curie (France)

Panel A-4

Blackstock, Jason

Fellow, Centre for International Governance Innovation and Research Scholar, International Institute for Applied Systems Analysis (Austria)

Track 2

Brutlag , Douglas

Professor of Biochemistry and Medicine, Department of Biochemistry, Stanford University (USA)
Plenary Session 1

Bunn, Anthony

Director, MRC Innovation Centre (South Africa)
Panel A-1

C

Carlone, Claudio

Chairman, Hypothesis (Italy)
Track 8

Catley-Carlson, Margaret

Chair, BOT Crop Diversity Trust (Canada)
Plenary Session 5

Christie, Werner

Former Norwegian Minister of Health (Norway)
Panel A-2

Clark, Brian F.C.

Vice President, European Federation of Biotechnology (Denmark)
Track 5 Plenum 2

Cockcroft, Claire Elizabeth

Head, External Relations, the Babraham Institute (UK)
Track 5 Plenum 2

Cocking, Edward

Director, Centre for Crop Nitrogen Fixation, University of Nottingham (UK)
Panel C-4

Cosgrove, William

Founder, Ecoconsult Inc. (Canada)
Plenary Session 5

Cot, Louis

Director, SIMEV and UNESCO Chair (France)
Track 1, Plenum 3

Cubasch, Ulrich

Dean, Geoscience Faculty, Freie Universität Berlin (Germany)
Track 2

D

Dario, Paolo

Professor, Scuola Superior Sant'Anna (Italy)
Plenary Session 3

Datta, Swapan

*Deputy Director General, Indian Council of Agricultural Research (India)
Panel C-3*

Derhak, Dianna

*Director Business Development, EPOS USA (USA)
Panel A-2, Track 8*

Desmarescaux, Philippe

*Chairman, the World Life Sciences Forum, BioVision (France)
Opening Session*

Dimitris, Kafetzopoulos

*Principal Researcher, Foundation for Research and Technology (FORTH), Institute of Molecular Biology and Biotechnology (IMBB) (Greece)
Track 6 Plenum 1*

Dossal, Amir

*Executive Director, the United Nations Office for Partnerships (USA)
Track 5 Plenum 2*

E

El-Beltagy, Adel

*Chair, Global Forum on Agricultural Research (Egypt)
Panel C-3*

Elliott, Malcolm

*Executive Director, the Norman Borlaug Institute for Crop Improvement (UK)
Panel C-3, Panel C-4*

El-Nokraschy, Hani

*CEO, Nokraschy Engineering GmbH (Germany)
Panel B-2*

ElZawawy, Ahmed

*President and First Founder, International Campaign for Establishment and Development of Oncology Centers (Egypt)
Panel A-4*

El-Zoheiry, Abdel Hamid

*Coordinator, Research Development and Innovation Program, Ministry of Higher Education and Scientific Research (Egypt)
Track 3*

F

Farcy, Michel

*Vice-President, Pall Industry (France)
Track 1 Plenum 2*

Fedoroff, Nina

*Science and Technology Adviser to the Secretary of State and to the Administrator of USAID (USA)
Plenary Session 2*

Finalle, Rodney

*Director of Global Health, the Children's Hospital of Philadelphia (USA)
Panel A-2*

Fondacaro, Joe

*President, Fondacaro & Associates Consulting, Demographic Info Biotechnology, Cincinnati Area (USA)
Track 5 Plenum 1*

Franceschi, Francois

*Senior Director, Technology Rib-X, Inc. (USA)
Panel A-1*

G

Ganguli, Prabuddha

*CEO, Vision-IPR (India)
Track 5 Plenum 1*

Geraghty, James A.

*Senior Vice President, Genzyme (USA)
CEO Panel*

Gillespie, Iain

*Head, Biotechnology Division, Directorate for Science, Technology and Industry, OECD (France)
Track 5 Plenum 1*

Girardet, Herbert

*Co-Founder and Director, Programs, World Future Council (UK)
Track 2, Panel B-1*

Gleick, Peter H.

*Co-founder and President, the Pacific Institute for Studies in Development, Environment, and Security (USA)
Plenary Session 5*

Grenier, Christian

*CEO, The World Life Sciences Forum, BioVision (France)
Opening Session*

Gros, François

*Permanent Honorary Secretary, Académie des Sciences, France (France)
Closing Session*

Guinot, Francois

*Former President, French Academy of Technology (France)
Track 1 Plenum 1*

H

Hassan, Mohamed

*Executive Director, TWAS—the Academy of Sciences for the Developing World; and President, African Academy of Sciences
Opening Session*

Hassouna, Salah

*Professor, High Institute of Graduate Studies and Research, Alexandria University (Egypt)
Panel C-1, Panel B-2, Panel C-3, Panel C-4, Panel C-5, Reporting Session*

Hayashizaki, Yoshihide

*Project Director and Chief Scientist, Genome Exploration Research Group, Genomic Sciences Center, RIKEN (Japan)
Plenary Session 1*

Helal, Hany

*Minister of Higher Education and Scientific Research (Egypt)
Opening Session*

Hentschel, Christopher

*President and CEO, Medicines for Malaria Venture (Switzerland)
Panel A-3*

Herrling, Paul

*Head of Corporate Research, Novartis International AG (Switzerland)
CEO Panel*

Hesse, Christoph

*Assistant Professor in Architecture and Urban Design, Technical University Darmstadt (Germany)
Panel B-2*

Huang, Jianshi

*Assistant President of Chinese Academy of Medical Sciences (China)
Plenary Session 6*

Hülshörster, Christian

*Director, DAAD, Cairo Office (Germany)
Track 3*

Hussain, Saber

*Scientist—Group Lead, Biological Interaction of Nanomaterials Applied Biotechnology, Human Effectiveness Directorate, Air Force Research Laboratory, Wright Patterson Air Force Base (USA)
Panel A-5*

Hussein, Tarek

*President, Egyptian Academy of Scientific Research and Technology (Egypt)
Track 7*

I

Ishiguro, Hiroshi

Professor, Osaka University (Japan)
Plenary Session 3

J

Jäger, Raimund

Head, Research Group "Biomedical Materials and Implants", Fraunhofer-Institute for Mechanics of Materials (Germany)
Track 3

James, Clive

Chairman and Founder, ISAAA (Cayman Islands)
Panel C-4

Juma, Calestous

Professor of the Practice of International Development and Director, the Science, Technology, and Globalization Project, Belfer Center for Science and International Affairs, Harvard University (USA)
Track 8

K

Kapiel, Tarek

Supervisor, Invention and the Innovation Development Sector, Egyptian Academy of Scientific Research and Technology (Egypt)
Track 7

Kassem, Heba

Director, Clinical Genomics Center, Faculty of Medicine, Alexandria University (Egypt)
Panel A-5

Kent, Alastair

Director, Genetic Interest Group (UK)
Plenary Session 1

Kerr, David

Rhodes Professor of Clinical Pharmacology and Cancer, University of Oxford (UK)
Panel A-4

Kilama, John

President, Global Bioscience Development Institute (USA)
Track 8

Kotze, Maritha

CEO, Knowmix Cape Biotech Trust (South Africa)
Panel A-1

Krattiger, Anatole

Research Professor, Arizona State University (USA)

Track 5 Plenum 2

Ktonas, Periklis

Professor Emeritus, Electrical and Computer Engineering Department, University of Houston and Special Consultant, Department of Psychiatry, University of Athens (Greece)

Track 6 Plenum 1

L

Langlais, Chrystelle

Senior Engineer, SUEZ Environment (France)

Track 1 Plenum 2

Laporte, Ronald

Professor of Epidemiology, Graduate School of Public Health, University of Pittsburgh (USA)

Plenary Session 6

Lazdins-Helds, Janis K.

Head, Novartis Vaccines Academy, Novartis Vaccines and Diagnostics (Italy)

Panel A-1

Leckebusch, Gregor C.

Associate Professor, freie Universität Berlin (Germany)

Panel B-1

Leisinger, Klaus M.

President and Executive Director, Novartis Foundation for Sustainable Development (Switzerland)

Panel A-3

León-Carrión, José

Human Neuropsychology Laboratory Facultad de Psicología, University of Seville (Spain)

Track 6 Plenum 1

Linkov, Faina

Research Assistant Professor of Medicine, University of Pittsburgh School of Medicine (USA)

Plenary Session 6

Lowery Derryck, Vivian

Senior Vice President and Director, Public Policy, the Academy for Educational Development (USA)

Panel C-5

M

M'Mbijjewe, Kinyua

Monsanto Corporate Affairs Lead in Africa (Kenya)

Panel C-2

Madkour, Magdy

Chairman, Technical Committee, Agricultural Research for Development Fund-ARDF (Egypt)

Plenary Session 2 , Panel C-4

Mahmoud, Adel

Professor, Department of Molecular Biology, Princeton University and Former President, Merck Vaccines (USA)

Plenary Session 1

Mainguy, Gaël

Director of Scientific Publications (France)

Panel C-2

Maisonnier, Bruno

CEO, Aldebaran Robotics (France)

Plenary Session 3

Makinde, Diran

Professor of Animal Science and Former Dean of the School of Agriculture, Rural Development and Forestry (Nigeria)

Panel C-2

Marei, Mona K

Head, Tissue Engineering Laboratories, Faculty of Dentistry, Alexandria University (Egypt)

Track 8

Martin, Jacques-François

President and CEO, Parteurop (France)

CEO Panel

Marton-Lefevre, Julia

Director General, the World Conservation Union-IUCN (Switzerland)

Session 1

Matricardi, Paolo

Professor, Department of Pediatric Pneumology and Immunology, Charité University Medical Centre (Germany)

Track 4

McNeely, Jeffrey

Senior Science Advisor, International Union for Conservation of Nature-IUCN (Switzerland)

Plenary Session 2, Panel B-5

Mittermeier, Russell A.

President, Conservation International (USA)

Plenary Session 2

Moawadhe, Hassan

Professor, National Research Center (Egypt)

Panel C-2

Morris, Jane

Director, African Centre for Gene Technologies (South Africa)

Panel A-3

Mylonas, Evangelos M.

R & D Director, DAEDALUS INFORMATICS Ltd (Greece)

Track 6 Plenum 1

N

Nakhla, Rafik

Vice President, Human Resources and Administration, Projacs International (Egypt)
Rapporteur

Nazif, Ahmed

Egyptian Prime Minister (Egypt)
Opening Session

Nicolelis, Miguel

*Professor of Neurobiology Biomedical Engineering and Psychological and Brain Sciences; and
Co-Director, Center for Neuroengineering, Duke University Medical Center (USA)*
Plenary Session 4

Niyikiza, Clet

Vice President, GlaxoSmithKline (USA)
Panel A-4, CEO Panel

Nobel, Joel

Founder and Professor Emeritus, ECRI Institute (USA)
Panel A-2

Nunes, Suzana

Principal Research Scientist, KAUST Membranes Research Center (Germany)
Track 1 Plenum 3

Nutti, Marilia

Researcher, National Research Center on Food Technology, Embrapa (Brazil)
Panel B-3

O

O. Oikeh, Sylvester

*Project Manager, Water Efficient Maize for Africa (WEMA), African Agricultural Technology
Foundation (AATF) (Nigeria)*
Panel C-2

Oborne, Michael

Director, the International Futures Programme and the Global Science Forum, OECD (France)
Panel A-2

Omenn, Gilbert

Professor of Medicine, Genetics, and Public Health, University of Michigan (USA)
Plenary Session 1

Omi, Koji

Founder and Chairman, the Science and Technology in Society (STS) Forum (Japan)
Opening Session

P**Padilla, Nicolas**

Professor, School of Nursing and Obstetrics, Celaya University of Guanajuato (Mexico)
Plenary Session 6

Paes de Carvalho, João

Principal, BiznessBrazil (Brazil)
Panel B-2, Panel B-5

Pagliano, Daniel

Director, Latin American Federation of National Biotechnology Companies Association (Uruguay)
Panel B-4

Pandya-Lorch, Rajul

Head, IFPRI'S 2020 Vision for Food, Agriculture and the Environment Initiative (USA)
Panel C-5

Papageorgiou, Kyriaki

Coordinator and Assistant, EU Science Counsellor (Cyprus)
Track 3

Papanicolaou, Andrew C.

Director, Center for Clinical Neurosciences, the University of Texas Medical School (USA)
Track 6 Plenum 2

Papazov, Biljana

Botanical Garden, University of Bern (Netherlands)
Panel B-3

Patell, Viloo Morawala

Founder and CMD, Avesthagen Limited (India)
Panel B-4

Pritchard, David

Professor of Parasite Immunology, School of Pharmacy, University of Nottingham (UK)
Track 4

R**Rangel-Aldao, Rafael**

Professor, Digital Molecular Medicine, Simon Bolivar University (Venezuela)
Panel A-1

Rios, Gilbert M.

Chairman, European Membrane House (France)
Track 1 Plenum 3

Rivero, Carmela

Vice President, Research and Development, Latin America Foods, PepsiCo (Mexico)
Panel B-4

Rodriguez, Rafael

CSIC-Coordinator, MIRA Project, EU (Spain)
Track 1 Plenum 1

Rook, Graham

Professor of Medical Microbiology, University College London (UK)
Track 4

S

Sakas, Damianos E.

Professor of Neurosurgery, University of Athens, Medical School Evangelismos Hospital (Greece)
Track 6 Plenum 2

Sakr, Mahmoud

Vice President, Egyptian Academy of Scientific Research and Technology (Egypt)
Track 7

Sauer, Francois

CEO, Trans Am Group (USA)
Plenary Session 6

Sayadi, Sami

Director, Bio-processes Laboratory, University of Sfax (Tunisia)
Track 1 Plenum 3

Schrotter, Jean-Christophe

R&D Manager, VEOLIA-Membrane House (France)
Track 1 Plenum 3, Plenary Session 5

Sears Ward, Haskell

Senior Vice President, Government Relations, SEACOM (USA)
CEO Panel

Serageldin, Ismail

Director, Bibliotheca Alexandrina (Egypt)
Opening Session, Plenary Session 3, Plenary Session 4, Panel C-3, CEO Panel, Plenary Session 6,
Closing Session

Serra, Ricardo

Deputy President, Agriculture Association of Young Farmers-Spain (ASAJA) (Spain)
Panel C-1

Shabrawy, Mervat

Professor, Faculty of Medicine, Suez Canal University (Egypt)
Track 7

Shatanawi, Muhammad

Professor, University of Jordan and UNESCO Chair, EOLSS (Jordan)
Track 1 Plenum 1

Shotkoski, Frank

*Director, Agricultural Biotechnology Support Project (ABSP) II, College of Agriculture and Life Sciences,
Cornell University (USA)*

Panel B-3

Shubnikov, Eugene

Research Scientist, Institute of Internal Medicine, Novosibirsk (Russia)

Plenary Session 6

Singer, Peter

Professor of Medicine, University Health Network and University of Toronto (Canada)

Panel A-3, Track 8

Soliman, Salah

Professor of Pesticide Chemistry & Toxicology, Faculty of Agriculture, Alexandria University (Egypt)

Rapporteur

T

Thakor, Nitish V.

Professor of Biomedical Engineering, Johns Hopkins University (USA)

Track 6 Plenum 2

Timmermann, Barbara

*Distinguished Professor and Chair, Department of Medicinal Chemistry, School of Pharmacy, University of
Kansas (USA)*

Plenary Session 2

Traoré, François

Cotton Grower (Burkina Faso) (Burkina Faso)

Panel C-1

U

Uphoff, Norman

Professor, Cornell International Institute for Food, Agriculture and Development (USA)

Panel C-3, Panel C-5

V

Van Montagu, Marc

President, the European Federation of Biotechnology- EFB (Belgium)

Plenary Session 2, Panel C-5

Vienken, Jorg

Vice-President, BioSciences-Fresenius (Germany)

Track 1 Plenum 2

Von Gabain, Alexander

*Professor, Max F. Perutz Laboratories, University of Vienna (Austria)
Panel A-5*

W

Wagner, Tobias

*Research Associate, Technische Universität München (Germany)
Panel B-5*

Warwick, Kevin

*Professor of Cybernetics, University of Reading (UK)
Plenary Session 4*

Wexler, Philip

*Technology Information Specialist, National Library of Medicine (USA)
Panel B-5*

Worthington, Barry

*Executive Director, United States Energy Association (USA)
Panel B-1, Panel B-2*

Y

Yang, Huanming

*Director, Beijing Genomics Institute, Chinese Academy of Sciences and Director, Huada Genomics
Research Center (China)
Plenary Session 1, Panel B-3, Panel B-4*

Yaseen, Adel

*Chairman and Managing Director, Fine Seeds and International. Deputy Chairman, Egyptian Seed
Industry Association (ESIA) (Egypt)
Panel C-1*

Z

Zaky, Yehia

*Head, Academic and Cultural Affairs Sector, Bibliotheca Alexandrina (Egypt)
Panel A-3, Panel A-5*

Zerhouni, Elias

*Former Director, National Institutes of Health and Senior Fellow, Bill and Melinda Gates Foundation
(USA)
Session 2*

Zervakis, Michalis

*Director, Digital Image and Signal Processing Laboratory, Technical University of Crete (Greece)
Track 6 Plenum 2*

Bio Vision Alexandria 2010

Nobel Laureates



AGRE, Peter
2003 Chemistry

A native Minnesotan, Peter Agre studied chemistry at Augsburg College (B.A. 1970) and medicine at Johns Hopkins (M.D. 1974). Agre joined the Johns Hopkins School of Medicine in 1984 and rose to the rank of Professor of Biological Chemistry and Professor of Medicine. In 2005, Agre moved to the Duke University School of Medicine where he was appointed as Vice Chancellor for Science and Technology and James B. Duke Professor of Cell Biology. Agre returned to Johns Hopkins in January 2008, where he became Professor at the University and Director of the Malaria Research Institute at the Bloomberg School of Public Health. In 2003, Agre shared the Nobel Prize in Chemistry for Discovering Aquaporins, a family of water channel proteins found throughout nature which is responsible for numerous physiological processes in humans and is implicated in multiple clinical disorders. Agre received other honors including 15 honorary doctorates, Commandership in the Royal Norwegian Order of Merit from King Harald V, and the Distinguished Eagle Scout Award from the Boy Scouts of America. Agre is a member of the National Academy of Sciences and the Institute of Medicine for which he was chairman and serves on the Committee on Human Rights. In February 2009, Agre became President of the American Association for the Advancement of Sciences.



MASKIN, Eric
2007 Economics

Eric Maskin is an economic theorist best known for his work on the theory of mechanism design. For laying the foundations of this field he shared the 2007 Nobel Memorial Prize in Economics. He has also made contributions to game theory, political economy and, contract theory, among other areas. A.B, Harvard University, 1972; Ph.D, Harvard, 1976; Research Fellow, Jesus College, Cambridge, 1976-77; Professor, Massachusetts Institute of Technology, 1981-84; Professor, Harvard, 1985-2000, Louis Berkman Professor of Economics, Harvard, 1997-2000; Albert O. Hirschman Professor, Institute for Advanced Study, 2000-; Director, Summer School in Economic Theory, Hebrew University, 2008-; Guggenheim Fellow, 1981; Sloan Foundation Fellow, 1983-85; Editor, Quarterly Journal of Economics, 1984-1990; Fellow, American Academy of Arts and Sciences; Fellow, Econometric Society (President, 2003), Editor, Economics Letters 1992-; Honorary Fellow, St John's and Jesus College, Cambridge; Kempe Award, Environmental Economics, 2007; Corresponding Fellow, British Academy; Honorary Professor, Wuhan University, Tsinghua University, Moscow Higher School of Economics, and Shenzhen University; Nobel Prize in Economic Sciences; Member, National Academy of Sciences; Doctor of Humane Letters, Bard College; Doctorate honoris causa, Corvinus University of Budapest and University of Cambodia; President-elect, Game Theory Society.

ROBERTS, Richard

1993 Medicine

Dr. Richard J. Roberts is the Chief Scientific Officer at New England Biolabs, Beverly, Massachusetts. He received a Ph.D. in Organic Chemistry in 1968 from Sheffield University and then moved as a postdoctoral fellow to Harvard. From 1972 to 1992, he worked at Cold Spring Harbor Laboratory, eventually becoming Assistant Director for Research under Dr. J.D. Watson. He began work on the newly discovered Type II restriction enzymes in 1972 and these enzymes have been a major research theme. Studies of transcription in Adenovirus-2 led to the discovery of split genes and mRNA splicing in 1977, for which he received the Nobel Prize in Medicine in 1993. During the sequencing of the Adenovirus-2 genome computational tools became essential and his laboratory pioneered the application of computers in this area. DNA methyltransferases, as components of restriction-modification systems are also of active interest and the first crystal structures for the HhaI methyltransferase led to the discovery of base flipping. Bioinformatic studies of microbial genomes to find new restriction systems is a major research focus. He is also now working to improve the functional annotation of sequenced bacterial and archaeal genomes.



SOYINKA, Wole

1986 Literature





WARREN, John Robin
2005 Physiology or Medicine



WÜTHRICH, Kurt
2002 Chemistry

Kurt Wüthrich shares his time between the ETH Zürich, Switzerland, where he is a Professor of Biophysics, and The Scripps Research Institute in California, USA, where he is a Professor of Structural Biology. His research interests are in molecular structural biology, and in structural genomics. His specialty is Nuclear Magnetic Resonance (NMR) Spectroscopy with biological macromolecules, where he contributed the NMR method of three-dimensional structure determination of proteins and nucleic acids in solution. The Wüthrich groups have solved a large number of NMR structures of proteins and nucleic acids, including the immunosuppression system cyclophilin A/cyclosporin A, the homeodomain–operator DNA transcriptional regulatory system, and prion proteins from a variety of species. Kurt Wüthrich's achievements have been recognized by the Prix Louis Jeantet de Médecine, the Kyoto Prize in Advanced Technology, the Nobel Prize in Chemistry, and by a number of other awards and honorary degrees.

Speakers' Biographies



ABD EL-AZIZ, Farha

Vice President, Mansoura University



AL SHORBAJI, Najeeb

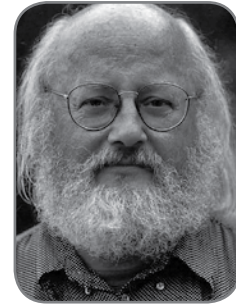
Director, Knowledge Management and Sharing (Switzerland)

Najeeb, Jordanian citizenship, has been working as Director at the Department of Knowledge Management and Sharing at the World Health Organization Headquarters (WHO/HQ) in Geneva since September 2008. Prior to that he held the posts of Information Scientist, Regional Advisor for Health Information Management and Telecommunication and Coordinator for Knowledge Management and Sharing for the WHO Eastern Mediterranean Region until August 2008. He obtained his PHD in Information Sciences in 1986. Dr Al-Shorbaji's portfolio covers WHO publishing activities and programs, library and knowledge networks, eHealth, and WHO Collaborating Centers. He is a member of a number of national and international professional societies and associations specialized in information management and health informatics. He is the author of over 80 research papers and articles presented in various conferences and published in professional journals.

AMMANN, Klaus

Guest Professor, Delft University of Technology

Klaus Ammann, Prof. Emeritus, University of Bern, Switzerland. Academic curriculum: Director Botanic Garden, University of Berne 1996–2006; Honorary Professor since 2000; retired from University and Botanic Garden, Bern, February 2006; Visiting Professor Delft University of Technology, Biotechnology Dept. 2006-2008; Visiting Professor Sabanci University, Istanbul, February 2009–June 2009; teaching Plant Systematics and Evolution, Vegetation Ecology, Biogeography at University of Bern, Taxonomy and Ecology of Lichens and Mosses; Air Pollution Biomonitoring with Lichens at ETH Zürich; Guest Prof. in Delft and Istanbul Committees; Executive Board European Federation of Biotechnology, Chair Section Biodiversity EFB. Steering Committee PRRI: Public Research and Regulation Initiative, Research Projects Plant Conservation, Biodiveristy; Risk Assessment of GM crops Bibliography.



ANDERSON, Walter Truett

President Emeritus, World Academy of Art and Science

Walter Truett Anderson, Ph.D., (political science and social psychology, University of Southern California) is a political scientist, futurist, journalist and author of 17 books including, “To Govern Evolution: Further Adventures of the Political Animal”, and “All Connected Now: Life in the First Global Civilization”. He is currently co-chair of the World Academy’s program on Climate Stability Governance, and a member of the International Expert Group on Earth System Preservation (IESP), Munich.



**ANHOURY, Pierre**

Senior Vice President, KanterHealth

Pierre Anhoury, M.D., M.P.H., is Senior Vice President and Business Leader of MattsonJack Europe (Now KantarHealth). Dr. Anhoury has deep expertise in hospital strategic planning, reimbursement and pricing, and market access for innovative drugs, with nearly 20 years' experience as a management consultant to providers, governmental organizations, and pharmaceutical manufacturers. In addition to consulting, Dr. Anhoury's experiences include a year with the ECRI Institute, a non-profit collaborating center affiliated with the World Health Organization, and multiple teaching roles in public health, health economics, and healthcare management. Dr. Anhoury's academic credentials include M.D. and M.P.H. from Nancy University in France and M.S. in risk management from the University of Health Sciences in Chicago and a Degree in Clinical Oncology.

**ASHHAB, Yaqoub**

Director, Biotechnology Training and Research Unit, Palestine Polytechnic University

Yaqoub Ashhab was born and grew up in Hebron, Palestine. He received his undergraduate biology degree with First Class Honours from Middle East Technical University, Turkey in 1990. He received his M.Sc. and Ph.D. in Molecular Biology from Autonomous University of Barcelona in 1994 and 1998, respectively. During his work in the laboratory of Prof. Ricardo Pujol-Borrell, he investigated the CC chemokines gene family and their role in autoimmune thyroid disease. In 1999 he joined the laboratory of Prof. Dina Ben-Yehuda at Hadassah Medical Centre, Hebrew University to do his Postdoctoral research in the field of programmed cell death. During his postdoc, he discovered and characterized the BIRC7 gene that codes for a new member of the "Inhibitor of Apoptosis Proteins" family. From 2002-2004 he became a research associate in the same research centre. In 2004 he joined Palestine Polytechnic University in Hebron, Palestine to lead the establishment of the first biotechnology research unit that has been funded by the European Commission and the World Bank. He is currently Associate Professor of Molecular Biology and Director of Biotechnology Training and Research Unit. His main interest is to build a network for developing bioinformatics training and research models in developing countries. His two bioinformatics research areas are: studying the molecular mechanisms of programmed cell death, and investigating microbial genomics in order to develop novel diagnostics and vaccines.

AYRAL, André

Professor, European Membrane Institute of Montpellier



Research -Main topics: Synthesis and characterisation of sol-gel-derived inorganic and hybrid thin layers and membranes, multifunctional membranes - Publications: more than 120, in international scientific journals, chapter books, books and patents. - Member of Editorial Board: Journal of Porous Materials Teaching - Teaching of Analytical Chemistry, Material chemistry and Membrane Science at the University Montpellier 2 (Bachelor and Master levels) and at the Graduate National Higher School of Chemistry of Montpellier (ENSCM). - Head of the professional master « PROMAT - Physicochimie appliquée des Matériaux » at the University Montpellier 2 and of the international program of inter-universities exchange and e-learning - Head of the research master UM2 / ENSCM / CEA « Chimie Séparative, Matériaux et Procédés » (CSMP) » Administration - Deputy director, in charge of masters and of international relations, of the Department of Chemistry at the Faculty of Sciences of the University Montpellier 2 (2006-2008). Leader of a research team on ceramic and hybrid membranes in IEM (2004-2007). - Deputy director, in charge of research and education, of the research centre: European Institute on Membranes of Montpellier (IEM) (2007) - Deputy director, in charge of Education, and member of the executive committee, of the Department of Chemistry (Pôle Formation Recherche) at the University Montpellier 2 (since 2008).

AZZAZY, Hassan

Chairman, Department of Chemistry, the American University in Cairo



Dr. Azzazy is a Professor and Chairman of the Chemistry Department at the American University In Cairo (AUC). He is also the director of the Chemistry Graduate Program and the leader of “Novel Diagnostics & Therapeutics” research group at the Yousef-Jameel Science & Technology Research Center at AUC. Dr. Azzazy is also an Adjunct Professor at the Graduate School of Biotechnology, University of Maryland University College, USA. He is a member of the editorial boards of the Clinical Biochemistry, Clin Chimica Acta, and Clinical Chemistry Laboratory Medicine journals. Dr. Azzazy has published over 120 articles, book chapters, conference abstracts, and monographs all in international journals, textbooks, and conferences. Dr. Azzazy has received numerous honors and awards the latest of which being the AUC 2008 Excellence in Research & Creative Endeavors Award and the AUC 2010 Excellence in Teaching Award. He is certified as a diplomate of the American Board of Clinical Chemistry, Washington, DC, USA in two specializations: clinical chemistry and molecular diagnostics. He is also certified as a Specialist in Clinical Chemistry (SC), Board of Registry, the American Society for Clinical Pathology (ASCP), Chicago, IL, USA. Dr. Azzazy is a fellow of the National Academy of Clinical Biochemistry (FACB), Washington, DC, USA.

***BADR, Effat***

Professor Emeritus, Department of Genetics, Faculty of Agriculture, Alexandria University

Ph. D. Columbia University, USA 1963. Prof. of Genetics, Alexandria University 1977 – present. Chairman, Dept of Genetics, Alexandria University 1991 – 1994. Vice President, Egyptian Society of Genetics 1979 – 1984, 2001 – 2007. Chairman of the Permanent Scientific Committee of Genetics, Supreme Council of Universities, 1995 – 1998 and member of the Board, 1978 – 2008. Fulbright Award, Genetic Engineering Research, Harvard University, 1984. National Award in Agricultural Sciences Egypt 1974. Medallion of Sciences and Arts, 1st Class, Egypt 1976. Listed in the Encyclopedia of Egyptian National Figures 1989. Member of the Task Force Committee on Biotechnology, Center for International Development at Harvard University 1999 – 2001. Member of the High Education Sector Committee of Genetic Engineering and Biotechnology, Supreme Council of Universities 1998 – present. PI of Several Joint Scientific Projects with American and French Universities. Chairman of Molecular Biology Unit, University of Alexandria Research Center 1978 – 1984. On the editorial board of the Egypt. J. of Genetics and the Arab J. of Biotechnology. Member / member of board of several NGOs concerned with society and the environment. Award of scientific distinction, Alexandria University 2006. Chairman of the Scientific Committee of Agricultural Chemistry, Microbiology and Genetics. Supreme Court of Universities, Egypt 2008 – present. Honorary Award of Appreciation, Alexandria University 2008.

***BERG, Robert J.***

Senior Advisor, World Federation of United Nations Associations

Robert J. Berg is Senior Advisor, World Federation of United Nations Associations. He is a Trustee of the World Academy of Art & Science. He has been senior advisor to a number of parts of the United Nations. He was founding chair of evaluation for the OECD Development Assistance Committee and founding director of evaluation for USAID. He is a member of the UN expert group on the economic and governance implications of climate change. A member of a number of education and NGO boards, he is also Director, Graduate Fellows Program, United Nations Association, involving doctoral and masters students from a number of universities.

BERRIE, Morris

Co-Chairman, TTS Ltd. and Managing Director, Tech Investor Ltd



Dr. Morris S. Berrie is Co-Chair of Tech Transfer Summit Ltd. and Managing Director of Tech Investor Ltd. The former is an organization that globally facilitates deal flow in the early stage/SME biotech sector whilst the latter specifically aids and advises governments, regions and companies throughout the biotech sector on “the business of science”, i.e. strategic business development and capital raising. Previously he was the Chief Executive Officer and Editor-in-Chief of the “Biotechnology Investment Today Group” where he worked with prestigious clients. Prior to that he was Head of Global Intelligence and Business Development for Nature Publishing Group and before that the Compound Director of the Life Science patent and drug registry content of the Investigational Drug database (IDdb) owned by Thomson Reuters. He has worked at Schering AG, is a Chartered Chemist, a Member of the Royal Society of Chemistry and was the recipient of an European DG Post-Doctoral Fellowship upon completing his Ph.D. at Imperial College, London. He also holds a seat at the Business Strategy, Publishing and Awards Committees of the Society of Chemical Industry.

BEY, Pierre

Former Director, Institut Curie



Pierre Bey, MD, is Emeritus Professor of Oncology, commissioned by the President of Institut Curie, in Paris, France, to develop relationships with emergent countries to help the fight against cancer. He was previously Director of the Hospital of Institut Curie in Paris (from 2002 to 2009), and Director of the Regional Comprehensive Cancer Center in Nancy, Lorraine region, (from 1991 to 2001). He was Professor of Radiation Oncology from 1980 to 2007. He obtained special experience in clinical practice of oncology and radiation therapy, in the building of networks in oncology and in the organization of comprehensive cancer centers. He was involved in different cooperations in the field of oncology mainly in Morocco (since 1976), China (since 1987), Syria (since 2002), Sudan (since 2009).

**BLACKSTOCK, Jason**

Fellow, Centre for International Governance Innovation & Research Scholar, International Institute for Applied Systems Analysis

Dr. Jason J. Blackstock is a Research Scholar at the International Institute for Applied Systems Analysis (Austria) and a Fellow at the Centre for International Governance Innovation (Canada). His research broadly explores the intersection of science and international affairs, with a current focus on scientific and socio-political implications of geo-engineering technologies. Jason has received his Master of Physics (Edinburgh, 2001), his PhD in Physics (Alberta, 2005), his Graduate Certificate in International Security (Stanford, 2006), and his Master of Public Administration (Harvard, 2008).

BRUTLAG, Douglas

Professor of Biochemistry and Medicine, Department of Biochemistry, Stanford University

Professor Douglas Brutlag received his Ph.D. with Great Distinction from Stanford University in 1972 and has been a Professor of Biochemistry there since 1974. His research helped develop the field of bioinformatics and the application of computer science to molecular biology. In 1979 he was a co-founder of IntelliGenetics, one of the first firms involved in bioinformatics, and in 1997 he co-founded the International Society for Computational Biology. He has served on the scientific advisory boards of many firms and organizations including the National Library of Medicine and the Max Planck Institute. At Stanford, Professor Brutlag chaired the Senate Committees on Academic Computing and Information Systems (C-ACIS), distributed Information and Computer Environments (DICE), the Infrastructure Advisory Group (IAG), and the Senate Committee on Libraries (C-LIB). Dr. Brutlag's honors include: NIH Senior Fogarty Fellowship, Guggenheim Fellowship; Fellow of the American Association for the Advancement of Science; Fellow of the American College of Medical Informatics; and Honorary Professor of Bioinformatics at Keio University, Japan. He was also awarded the 1992 Computerworld-Smithsonian Award in Science.

BUNN, Anthony

Director, MRC Innovation Centre



Tony Bunn PhD, MSc, UED. Tony is Director of the Innovation Centre of the South African Medical Research Council (MRC) which he established in 2004 and that manages innovation opportunities from MRC research discovery. He was previously (1988-1994) an associate professor and acting head of the department of biomedical engineering at the University of Cape Town and currently holds an honorary position with the university. He has published extensively in peer-reviewed journals and supervised numerous MSc and PhD postgraduates. He is frequently invited to speak on technology transfer, entrepreneurial and innovation issues at both national and international meetings. Tony's own research has led to the formation of four successful start-up companies, all based on securing critical IP. Together with the international organization, MIHR, Tony co-founded the African Program for Health Innovation involved in capacity development in technology transfer in Southern and East Africa. He is also a co-founder and member of the Southern African Research & Innovation Management Association (SARIMA) and actively participates in the national innovation agenda.

CARLONE, Claudio

Chairman, Hypothesis



Claudio Carlone is the President of Hypothesis—a communications company specialized in strategic advisory services, special projects, corporate image, and public and institutional relations. Since January 2010 he has been responsible for communications and public relations at the Agency for Technology and Innovation (Italian Government). Born in 1952, he works as an entrepreneur and consultant to manufacturing companies, financial institutions and international organizations. Carlone received a degree in chemical engineering and biology (1977) and later conducted research in biotechnology at the Italian National Research Council. In 1982, Carlone launched a career in journalism and communications, focusing on the relationship between enterprise and society. In 1989, he founded Hypothesis. Since 1992, he has worked as a strategic advisor in the hi-tech and financial sectors, serving on the boards of listed companies and as a partner of the Nuovo Mercato of Borsa Italiana (the Italian Stock Exchange's index of hi-tech firms). Carlone's other activities include acting as the Coordinator of the Milan Chamber of Commerce's Advisory Board for the Innovation Centre Project (since 2005). He was the Secretary of the commission for the recovery plan for the former Falck industrial area in Sesto San Giovanni (Milan) (2001-2002) and coordinated the Committee for Science and Technology (CAST) of the City of Milan (1993-1996). He speaks English, French and Spanish.



CATLEY-CARLSON, Margaret
Chair, BOT Crop Diversity Trust

Margaret Catley-Carlson operates at the Board level in support of improved water resource management and the twin issues of agricultural productivity and rural development. She is Chair of the World Economic Forum Global Agenda Council on Water, of the Foresight Advisory Committee for Group Suez Environment, and a member of the UN Secretary General's Advisory Board on Water; the Rosenberg Forum; the Canadian Water Network; and Patron and past Chair of the Global Water Partnership. She chairs the Board of the Crop Diversity Trust, and serves in the Council of Advisors of the World Food Prize, the Boards of the Syngenta Foundation, and the IFDC (Fertilizer Management). She has chaired the Global Water Partnership, ICARDA (Int Center for Agricultural Development in Dry Areas, CABI (Center for Agriculture and Biosciences). She was also Vice Chair of the IDRC (Int'l Development Research Council), IWMI (International Water Management Institute, and Board member of IIED (International Institute of Environment and Development), the Library of Alexandria. She was President of the Canadian International Development Agency, 1983-1989; Deputy Executive Director of UNICEF in New York, 1981-1983; President of the Population Council in New York, 1993-1998; and Deputy Minister of the Department of Health and Welfare of Canada, 1989-1992. Ms. Catley-Carlson has ten honorary degrees and is an Officer of the Order of Canada.



CHRISTIE, Werner

Science and Technology Counselor, Royal Norwegian Embassy, Beijing & Former Minister of Health, Norway, Chairman of the Norwegian Biotechnology Advisory Board.

Werner Christie is a former Minister of Health of Norway in Dr. Brundtland's Cabinet, September 1992- December 1995, and former chair of the Biotechnology Advisory Board of Norway and WHO's "Stop TB" public-private partnership. He is a Medical Doctor also educated in Social Science. He has more than 13 years experience as a part-time farmer. He has worked as a public health officer and hospital manager in Norway and has done research and published a textbook on the planning and management of primary health care. He has consulted and served on the boards of numerous health care providers, investors and start-ups, including European Federation of Biotechnology and ScanBalt network of Biotech networks. He worked for 5 years as a special advisor in medical- and bio-technology for the Norwegian Trade Council, and served two years in that function in San Francisco. In 2007, he became a board member of Public Advice International Foundation and Chair of PA Asia's China operations. In 2008 he became a board member of EduMonde SA, an educational media venture, and member of the Presidium of the UN International Ecological Safety Cooperative Organization. From May 2004 to Jan 2009, he was the Science and Technology Counselor for the Royal Norwegian Embassy, Beijing, where his work was mainly focused on energy, environment, building, medical, marine and bio-science and technologies as well as welfare and health reform issues. He now works as an independent consultant away from his company 'World Health Connections'.

CLARK, Brian F.C

Vice President, European Federation of Biotechnology



British citizen. Academic and professional background: BA, MA, Ph.D., Sc.D (Cantab). Main fields: Explanation of function in terms of 3d structure. Macromolecular mimicry and molecular mechanism of protein synthesis. Molecular and cellular mechanism of ageing. Use of phage display to identify differential cellular gene expression and to characterize mutant proteins. Molecular mechanism of disease including cancer and age-related diseases. Career: 1961-62, Research Associate in Division of Biochemistry at M.I.T. Cambridge, USA. 1962-64, Visiting Fellow in Dr. M.W. Nirenberg's Section of Biochemical Genetics, National Heart Institute, N.I.H., Bethesda, Maryland, USA. 1964-74, Member of Scientific Staff, Medical Research Council, Laboratory of Molecular Biology, Cambridge; Member of division of cell biology under the direction of Francis Crick & Sydney Brenner. 1974-2006, Professor of bio-structural chemistry at The University of Aarhus, Denmark. Chief Scientific Officer Senetek PLC 2006, 2006 Emeritus Professor. Publications: 200 publications, including five books. Achievements: discovery of the initiation codon for protein synthesis and hence start of protein coding (1965-66); first crystallization of tRNA (1968); Co-founder of Senetek PLC (1983) determination of the first structure of a GTP-binding protein (1985); structural determination of the ternary complex (1995). Coordinator of EU Integrated Project PROTEOMAGE involving 19 partners in Europe and China.

COCKCROFT, Claire Elizabeth

Head, External Relations, the Babraham Institute

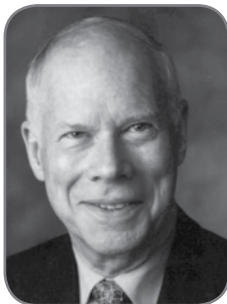


Claire holds a degree in Biochemistry from The University of Oxford and a PhD in Plant Biotechnology from the University of Cambridge. While a PostDoc she was awarded a Media fellowship by the British Science Association, working with Tim Radford at The Guardian and subsequently as a freelance writer. After hanging up her lab coat in 2001, Claire pioneered a cross-disciplinary Masters Programme at Cambridge with MIT. Recognising a need for a biotechnology-focused business course in the UK, Claire designed and directed the Bioscience Enterprise Programme, aimed at future leaders of the life science sector and aspiring entrepreneurs. In June 2005, Claire joined the Babraham Institute – an institute of the Biotechnology and Biological Sciences Research Council (BBSRC) – attracted by the entrepreneurial culture and opportunities in public engagement and science communication. As Head of External Relations, Claire deals with corporate communications, media liaison, public engagement events and PR/marketing for the campus including its vibrant Bioincubator, home to 30 life science companies. She also encourages an entrepreneurial outlook in scientists and students through business plan competitions and knowledge exchange initiatives at Babraham. Claire has established a successful Science & Society Programme delivering novel science enrichment activities to inspire and excite young people about science. This includes Conferences for 6th formers, after-school science clubs, careers events and workshops exploring the scientific/ethical issues of biomedical research. She has set up summer research schemes for 6th formers, undergraduates and Masters students.

**COCKING, Edward**

Director, Centre for Crop Nitrogen Fixation, University of Nottingham

Education: BSc, First Class Honours Biological Chemistry, University of Bristol; PhD University of Bristol; Amino acid and protein synthesis in barley, DSc University of Bristol; Plant cell biology and nitrogen metabolism. Career: Civil Service Commission Research Fellow in Bacterial, Chemistry Lecturer, then Reader, Department of Botany, University of Nottingham Research; Fellowships at the ETH, Zurich and Max Planck Institute for Medical Research, Göttingen; Professor of Botany and Head of Department of Botany, University of Nottingham; and sometime Director of Biological Studies Head Agricultural Research Council Research Group: Somatic hybridization of cereals and other crop plants by the fusion of isolated protoplasts. Vice Dean, Faculty of Pure Science; Dean, Faculty of Science Professor of Botany and Head of Plant Genetic Manipulation Group, University of Nottingham (Emeritus Professor, 1997); Director, Centre for Crop Nitrogen Fixation, University of Nottingham Membership and Distinctions: Fellow of the Royal Society, Member of Academia Europaea, Member of Hungarian Academy of Sciences, Leverhulme Trust Research Fellow, Fellow Indian Academy Agricultural Sciences, Member of Lawes Trust (Rothamsted), Fellow World Innovation Foundation, Lifetime Achievement Award, University of Toledo (USA).

**COSGROVE, William**

Founder, Ecoconsult Inc.

William (Bill) Cosgrove has many years of experience in the field of water resources management. Following his term as President of Quebec's Bureau d'audiences publiques sur l'environnement he was Content Coordinator for the third edition of the World Water Development Report (2009). He is co-author of the "World Water Vision (2000)" and of "Water Security and Peace: A Synthesis of Studies Prepared under the PCCP-Water for Peace Process" (UNESCO). Other recent publications include: 'Public Participation to Promote Water Ethics and Transparency in Water and Ethics', edited by M. Ramón Llamas et al (2009) and 'Water for Growth and Security in World Water Crisis: Myth or Reality?', edited by Peter P. Rogers et al (2005). A Former Vice President of the World Bank. He is Honorary President of the World Water Council.

CUBASCH, Ulrich

Dean, Geoscience Faculty, Freie Universität Berlin



Research Interests: Climate Variability, Climate Modeling, Global Change, Urban Climate. Academic training: 1993 Habilitation in Meteorology, Universität Hamburg, Germany, 1984; Dissertation (Dr. rer. nat.) in Meteorology, Universität Hamburg, Germany, 1977; Diploma, Meteorology, Christian-Albrechts-Universität, Kiel, Germany. Professional experienc: since 2007, Dean of the Geoscience Faculty der Freien Universität, Berlin; since 2002, Full Professor at the Meteorologisches Institut der Freien Universität, Berlin; from 1999-2002, Head of the Model and Data Group, Max-Planck-Institute für Meteorologie, Hamburg; from 1991-1999, Leader of the Model Application Group, Deutsches Klimarechenzentrum, Hamburg, Germany; from 1987-1999, Senior Scientist, Max-Planck-Insitute für Meteorologie, Hamburg, Germany 1978-1986 Scientist/Numerical Analyst, ECMWF, Reading, UK; Cooperation/consultancy in national & international committees: lead author IPCC (Nobel Peace Prize 2007); WG1 FAR, TAR, AR4 Scientific Advisory Board EU-Project QUANTIFY (Quantifying the Climate Impact of Global and European Transport Systems); member of the CAWSES/SCOSTEP; committee; member of the IIASA-Support organization, Germany; member of the advisory committee of the BMV research program; KLIWAS; member of the DFG-Forschungskommission FK 313; member of the DFG-Geokommission; member of the GKSS technical advisory committee; Chairman of the “Deutsche Meteorologische Gesellschaft”, (2009); member of the evaluation board of ResClim, Norway.

DARIO, Paolo

Professor, Scuola Superior Sant’Anna



Paolo Dario is a Professor of Biomedical Robotics at the Scuola Superiore Sant’Anna in Pisa. He is also a Visiting Professor at Waseda University, Japan, and at Zhejiang University, China. He is the coordinator of the CRIM (Center for the Research in Microengineering), Laboratory of the Scuola Superior Sant’Anna, where he supervises a team of about 140 researchers, including over 70 PhD students. He also serves as Director of the Polo Sant’Anna Valdera of the Scuola Superior Sant’Anna. Since September 2009, Professor Dario has been the coordinator of the newly established Center of Micro-BioRobotics at Scuola Superiore Sant’Anna of the Italian Institute of Technology. His main research interests are in the fields of medical robotics, bio-robotics, mechatronics and micro/nanoengineering. Prof. Dario has served as President of the IEEE Robotics and Automation Society in the years 2002-2003. He has been the General Chair of the IEEE RAS-EMBS BioRob’06 Conference and of the 2007 IEEE International Conference on Robotics and Automation (ICRA’07). Prof. Dario is an IEEE Fellow, a Fellow of the European Society on Medical and Biological Engineering, a Fellow of the School of Engineering of the University of Tokyo, and a recipient of many honors and awards, including the Joseph Engelberger Award. He is also a member of the Board of the International Foundation of Robotics Research (IFRR).

**DATA, Swapan**

Deputy Director General, Indian Council of Agricultural Research

Prof. Swapan Datta, FNAAS, FNASc, DDG (Crop Science), ICAR, Former Senior Scientist and HarvestPlus Rice Crop leader of CGIAR at IRRI. Fellow elected 2005, National Academy of Agricultural Sciences; Fellow, elected in 2006 National Academy of Sciences India. Former RB Ghosh Professor Chair at University of Calcutta, Kolkata, TATA Innovation Fellow (DBT, GOI). He was awarded DAAD Fellow at Institute for Resistance Genetics, Gruenbach, Germany; FMI (Friedrich Miescher Institute) Fellow, Basel, Switzerland; Group Leader and Senior Scientist at ETH-Zurich, Switzerland; VA Professor at UC-Davis, USA (1989); Senior Scientist & Plant Biotechnologist at IRRI (International Rice Research Institute) and HarvestPlus Rice Crop Leader (1993-2005); Recipient of Panchanan Maheshwari Medal (2006) and Awarded Paul Johannes Brouhl Memorial Medal (2009). He has significant contributions in Plant Biotechnology, Molecular Breeding, Regulatory aspects and Deployment of Transgenic crops in Field and Food-safety analysis, IPR-International Agricultural Science Policy and Management. He has published more than 120 research papers in reference journals including Nature, Nature Biotechnology, MGG, TAG, Plant Molecular Biology and Molecular Breeding, Plant Journal. He is a professional Member in many National committees dealing with Crop Biotechnology, Agriculture Policy, Food and Biosafety and Regulatory issues. He is internationally renowned as a leading plant biotechnologist.

**DERHAK, Dianna**

Founder/Chief Executive of DNA International Consultancy

Founder and Chief Executive of DNA International Consultancy. She is an attorney and MBA with 15 years of international development experience in public health, law and business management. Dianna Derhak is experienced in all facets of international development work including strategic planning, project design, launch, implementation, field operations management, evaluation and monitoring and policy level dialogues. Ms. Derhak is based in Washington, DC.

DESMARESCAUX, Philippe

Chairman, The World Life Sciences Forum, BioVision



Born on July 16, 1938. Philippe Desmarescaux graduated from the higher national school of chemistry of Paris and is a Doctor in physics. His career started as a research attaché at the National Center for scientific research in 1961 (CNRS, France). He joined the Rhône-Poulenc Group in 1963 as an engineer in the Research Department of PROGRIL. In 1974 he became Research Director in the Agrochemical Division of Rhône-Poulenc. He was then Director of Marketing and Exports (1977) before being President of the Agrochemical Division in 1979. In 1980, Philippe Desmarescaux became Member of the Rhône –Poulenc Group’s Executive Committee. He has been President and later Chairman of the Agrochemical Sector of the company (1980-1996). Chairman of Chemicals Sector (1991-1997), Chairman of the Group’s American subsidiary Rhône-Poulenc Inc. from 1986 to 1997, he became President of the Rhône-Poulenc Group in 1992. Chairman of the board of the Ecole Normale Supérieure de Lyon from 1994 to 2000, Philippe Desmarescaux chairs the World Life Sciences Forum, BioVision since 1998 and he is now vice-president of the Scientific Foundation of Lyon, which he has chaired from 1998 till October 2007. Philippe Desmarescaux is also Chevalier de la Légion d’Honneur (Legion of honor medal). Chairman of the Société Française de Chimie (French company of chemistry). Chairman and board member of various companies (SEB Group, Auriga, Innate Pharma, Eurotab...).

DOSSAL, Amir

Executive Director, the United Nations Office for Partnerships



Amir A. Dossal, Executive Director of the United Nations Office for Partnerships. Amir Dossal is the UN’s Chief Liaison for Partnerships. He guides the development of strategic alliances with governments, corporations, foundations and philanthropists in achieving the Millennium Development Goals. He has spearheaded the UN’s engagement with a number of sectors including technology, pharmaceutical, media, and entertainment industry, in support of humanitarian causes. Amir is the UN’s Representative for the partnership with media mogul Ted Turner’s \$1 billion donation, covering 450 programs and projects in children’s health, women and population, climate change, and biodiversity. This includes social investments of over \$560 million from numerous other partners. Amir also oversees management of the UN Democracy Fund, which he established in 2005, to strengthen institutions and enhance democratic governance in new or restored democracies. Amir is a Chartered Accountant (FCA) having trained with Deloitte, Haskins & Sells, London in 1975. Prior to joining the United Nations in 1985, he worked in the business world for over 15 years. Amir has lived and worked in Asia, the Caribbean, Europe, Middle East, and North America. He regularly undertakes speaking engagements, and serves on the boards of several non-profits. Amir is married with one son.

**EL-BELTAGY, Adel**

Chair, Global Forum on Agricultural Research

Prof. Adel El-Beltagy currently holds many positions in the agri world: Chair, GFAR; Member of the FAO HLC, addressing the implementation of MDGs. Chair, IDDC; Member of EAGLES, Co-Chair, Board of the GDTE, Chair of the Ag Res & Dev Council (ARDC), EGY; Board Member of the Alex. Bib; Member of the Supreme Council of Science & Tech chaired by the Prime Minister of EGY; and a Prof of Ag, Arid Lands Res Inst, Ain Shams University. Most recently, he has served as the DG of ICARDA. He was Director/Board Chair of Ag Res Center of EGY, Chair for the Sci. Tech. Council of the Int'l SSO, 1st Under-Secretary of the State for Land Reclam. of EGY; Fellow of the Univ of Wales, Chair of Exec Board, ACSAD. He holds an Honorary Doctorate of Science from the Univ of Khartoum; Chairman of (CDC) for the Int'l Ag Res centers of the CGIAR. Chair of INRM; Member of the CDC ICWG - Climate Change; Member of the CGIAR Genetic Resources Policy Committee; Board Member of the Millennium Ecosystem Assessment Board; Chair, CDC Task-Force for Central Asia and the Caucasus of CWANA; and a Fellow of TWAS and an elected member of its Council in 2009. A native of Egypt, he has been awarded. Al-Istiklal Medal by His Majesty King Abdullah II of Jordan. He was also awarded the Sultan Qaboos First Class Order for Culture, Science & Arts for his contribution to the Development of Agriculture in the Dry Areas. He has also been awarded 2008 State Recognition Prize in Science, Egypt. In 2006, Elected member of l'institut d'Egypte founded in 1798, and a Founding member of the British Plant Growth Regulator Group, AAAS, Int'l Plant Growth Substances Assoc, Federation of EU Societies of Plant Physiology, Int'l Society of Hort Sci, US Society for Hort Sci, Society for Experi Biology, U.K; EGY Society for Hort Sci, WWC, (AWC). He is the author and co-author of more than 140 science publications.

**ELLIOTT, Malcolm**

Founding Director, The Norman Borlaug Institute for Crop Improvement

Malcolm Elliott graduated with First Class Honors in Plant Sciences from The University of Wales (1963) and received his PhD in plant biochemistry from The University of Wales in 1966. He was a Fulbright Scholar and Research Fellow at Yale University (1967–69). Lecturer in Plant Biochemistry at The University of Leicester (1969–71). Professor and Head of The School of Life Sciences at De Montfort University, Leicester (1971–94). Chairman of The College of Deans at De Montfort University (1989–93) then Founding Director of The Norman Borlaug Institute for Crop Improvement (1994 to date). Professor Elliott is the author of several hundred research publications with emphasis on molecular biological approaches to cereal improvement. He was awarded the Charles University Medal (1992), the Gregor Mendel Gold Medal for Biological Sciences Research of Exceptional Merit (1993), the Jan Evangelista Purkyne Medal (1994) and the DSc (Honoris Causa) of the Bulgarian Academy of Agriculture. Professor Elliott sees the role of the Norman Borlaug Institute as facilitating the delivery of food security and creation of wealth by applying cutting edge plant science techniques in crop improvement programs that will enable the sustainable enhancement of global agricultural production

EL-NOKRASCHY, Hani

CEO, Nokraschy Engineering GmbH



Date and place of birth: 28 June 1935 in Cairo, Egypt

Education: 1958 Faculty of Engineering Cairo University, Egypt, 1963; Technical University Darmstadt, Germany, 1968; Technical University Darmstadt, Germany, PhD, 2005. He is the managing director and owner partner of “Egyptian Solar Research Center” (SOLAREC), since 2003; Owner and CEO of Nokraschy Engineering GmbH in Holm (Hamburg), Germany. Membership in Study/Work teams: 2007. Member of the Executive Committee for MENAREC 4 in Damascus, 21-24 June 2007 2007; Consulting member to the German Expert Team for renewable energies in the frame of the German Egyptian year of science and technology, 2006; Creator and administrator of the web site www.menarec.org. for the conference series “Middle-East North-Africa Renewable Energy Conference”, 2004-2007; member of the study teams MED-CSP, TRANS-CSP and AQUA-CSP, Renewable Energy Potential and Electricity Demand Around the Mediterranean, Electricity Transmission to Europe and Seawater Desalination with Concentrating Solar Power. Membership in organizations: 2003:2005, European Business Council for Sustainable Energy; 2002, TREC, Trans-Mediterranean Renewable Energy Co-operation, a network of scientist devoted to climate protection and renewable energy applications, 1999; Association of Egyptian Businessmen in Germany, 2008; Member of the Advisory Board for REMENA Bi-cultural Masters Course in RE, 2009; Co-founder of the DESERTEC Foundation & Vice Chairman of the supervisory board.

ELZAWAWY, Ahmed

President & First Founder, International Campaign for Establishment and Development of Oncology Centers (ICEDOC)



Professor Dr. Ahmed Elzawawy, Professor of Clinical Oncology (Port Said, Egypt). International Positions: President of the International Campaign for Establishment And Development of Oncology Centers (ICEDOC) & ICEDOC’s Experts in Cancer Without Borders, USA. WWW.ICEDOC.ORG.

Co-President of South and East Mediterranean College of Oncology SEMCO. www.semco-oncology.info. Member in the executive council of the African Organization for Research and Training in cancer (AORTIC) www.AORTIC.org. Locally in Egypt, at present; Chairman & Professor of Clinical Oncology and Nuclear Medicine Department, Faculty of Medicine, Suez Canal University & Chairman of Al Soliman Radiation Oncology Department, Port Said, Egypt. Education: MD., November 1975: M.B. CH.B, Faculty of Medicine, Alexandria University, Egypt. In 1981, accomplishment of post graduates studies in Radiotherapy, Oncology; France. Membership of international societies: member in American Society of Clinical Oncology (ASCO), European society of Medical Oncology (ESMO), American Society of Breast Health. Peer review editorial activities: “World Journal of Surgical Oncology”, USA & a reviewer in “Surgical Oncology “ UK. Other international activities: a consultant in fields related to cancer around the world.

**FEDOROFF, Nina**

Science and Technology Adviser to the Secretary of State and to the Administrator of USAID

Nina V. Fedoroff received her Ph.D. in Molecular Biology from the Rockefeller University, and has served on the faculties of the Carnegie Institution of Washington, the Johns Hopkins University and the Pennsylvania State University, where she was the Director of the Biotechnology Institute and the founding Director of the Huck Institutes of the Life. She is the Willaman Professor of the Life Sciences and an Evan Pugh Professor at Penn State, as well as a member of the External Faculty of the Santa Fe Institute. Fedoroff has published two books and more than 130 papers in scientific journals. Among her awards is a 2006 National Medal of Science, the highest honor awarded to US scientists. Fedoroff is currently on leave of absence from Pennsylvania State

**FINALLE, Rodney**

Director of Global Health, The Children's Hospital of Philadelphia

Rodney R. Finalle, M.D., F.A.A.P. Director of Global Health at The Children's Hospital of Philadelphia. Associate Clinical Professor of Pediatrics, University of Pennsylvania School of Medicine. In his position Dr. Finalle oversees and provides leadership and guidance to a wide variety of Global Health activities throughout the institution. Dr. Finalle provides the strategic vision to the critically important area of global child health.

All Global Health efforts, including the David N. Pincus Global Health Fellowship at the Children's Hospital of Philadelphia are supported and supervised by Dr. Finalle. Dr. Finalle was the Founder and Executive Director of The Children's Hospital of Philadelphia's Alliance for International Medicine. Dr. Finalle is a pediatrician, and former Medical Director of the Children's Hospital's Primary Care Center at Cobbs Creek in West Philadelphia. As a Fellow of the American Academy of Pediatrics (FAAP) he serves on the AAP Section on International Child Health. He completed his pediatric training at The Children's Hospital of Philadelphia, and medical school at the University of Pennsylvania School of Medicine. His international work has included extensive work in Haiti, the Dominican Republic, Botswana and South Africa.

FONDACARO, Joe

President, Fondacaro & Associates Consulting, Demographic Info Biotechnology, Cincinnati Area



Joseph D. Fondacaro, Ph.D is an Associate Professor of Physiology at University of Cincinnati, College of Medicine, and a Drug Discovery scientist in the pharmaceutical industry. Dr. Fondacaro has published over 150 peer review research articles and book chapters and delivered scientific talks at many national and international conferences. In 1996, he joined Cincinnati Children's Hospital Medical Center as founder and director of the Office of Technology Transfer. He transformed the office into a nationally recognized technology transfer program. In 2007, the program received over 90 disclosures, had over 50 active license agreements, 5 active start-up companies and a royalty monetization event. He is active in the Association of University Technology Managers (AUTM) and the Licensing Executive Society (LES). He is a regular speaker at LES and AUTM meetings, has held various offices for both group including Vice President for Professional Development and the Board of Trustees for AUTM: Dr. Fondacaro has lectured at International Technology Transfer conferences in Canada, France, Germany, Spain, Chile and Brazil. He has published several articles and a book chapter on topics in Technology Transfer. He is President of Fondacaro & Associates Consulting, Emeritus Professor of Pediatrics at the University of Cincinnati, College of Medicine, and serves on the Boards of Trustees of BioStart Biomedical Incubator and the Cincinnati Foundation for Biomedical Research and Education.

FRANCESCHI, Francois

Senior Director, Technology Rib-X, Inc.



François Franceschi obtained his Biology degree in 1983 from University of Simon Bolivar in Caracas, Venezuela, and a Ph.D. in Biochemistry from the Freie Universität Berlin in 1989. Between 1991 and 2002 he was Principal Investigator of a research group focused on ribosome structure and function at the Max Planck Institute for Molecular Genetics in Berlin. At the Max-Planck Institute his group was a pivotal part of an international consortium, headed by Ada Yonath (2009 Chemistry Nobel Prize winner), that crystallized and solved structures of the small (*T. thermophilus*) and large (*D. radiodurans*) ribosomal subunits. In 2002 he joined Rib-X Pharmaceuticals, a product driven small molecule drug discovery and development company focused on the structure based design of new classes of antibiotics. Among Rib-X co-founders are: Tom Steitz (2009 Chemistry Nobel Prize winner), Peter Moore, William Jorgensen and Harry Noller. Currently, François is the Senior Director of Ribosome Targeting and Technology, where he leads a team focused on an assay toolkit that is essential to the rapid design and development of novel antibiotic classes active against serious drug-resistant bacterial infections.



GANGULI, Prabhuddha
CEO, Vision-IPR

He is the CEO of "VISION-IPR" offering services in management of Intellectual Property Rights, Information Security and Knowledge Management. He is a leading international expert in IPR and a Consultant to the World Intellectual Property Organization for IPR capacity building, an expert in IPR policy for several governments and an elected Fellow of the Maharashtra Academy of Sciences. After several years in academic research, he worked in industry for 2 decades holding diverse managerial roles including R&D, technology assessment, forecasting and transfer, knowledge management, factory management and business planning. He is Honorary Scientific Consultant for Innovation and IPR matters to the Office of the Principal Scientific Adviser; Government of India; a member of the Advisory Board of the IPI, Washington; a Member of the Senate of National Institute of Fashion Technology, India; a member of the International Editorial Board of "World Patent Information. He has over 50 publications in technical fields, over 60 publications in IPR. He also published 5 books: "Gearing up for Patents--The Indian Scenario" Universities Press (1998); "Intellectual Property Rights--Unleashing the Knowledge Economy", Tata McGrawHill (2001); "Shaping the Future", UNIDO-WIPO-IMTMA(2005); "Technology Transfer issues in Biotechnology-- A Global Perspective" co-edited with Dr Ben Prickril and Dr Rita Khanna, published by Wiley-VCH (Germany) (2009); and "Geographical Indications-its evolving contours", released in 2009.



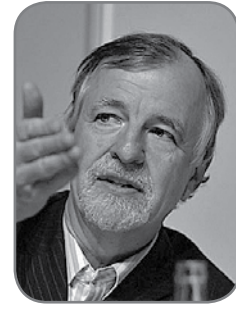
GERAGHTY, James A.
Senior Vice President, Genzyme

James Geraghty is Senior Vice President and an Officer at Genzyme Corporation. He was President of Genzyme Europe from 1998-2002, and in 2004 became General Manager of Genzyme's cardiovascular business. He is currently the Director of GTC/ Biotherapeutics (formerly Genzyme Transgenics Corporation), where he was Chairman from 1998 to 2001, and President and C.E.O starting from its founding in 1993. He is also a member of the boards of Myosix SA, and Genetix Pharmaceuticals, Inc. Mr. Geraghty also supervises Genzyme's Humanitarian Assistance for Neglected Diseases program, under which Genzyme helps develop innovative therapeutic programs on a non-commercial basis. He has structured Genzyme's partnerships with The Broad Institute and MMV, with DNDi, with Brazil's Oswaldo Cruz Institute, and with India's ICGEB. He served as Co-Chair of the executive committee for BIO 2007 and as an Advisory Board member of the Partnering for Global Health Forum, and of BIO-India. A graduate of the Yale Law School, he has published articles in the Yale Law Journal, Health Affairs, and other publications. He holds a Masters Degree from the University of Pennsylvania and a Bachelor's Degree from Georgetown University.

GIRARDET, Herbert

Co-Founder and Director, Programs, World Future Council

Prof. Herbert Girardet is co-founder and director of programs of the World Future Council. He is leading consultant on sustainable development and a recipient of a UN Global 500 Award 'for outstanding environmental achievements'. For many years he has focused mainly on the challenges of sustainable urban development and is often called the world's leading urban ecologist. He has been a consultant to UNEP and UN-Habitat and has developed sustainability policies for major cities such as London and Vienna. In 2003 he was 'Thinker in Residence' in Adelaide, developing sustainable development strategies for South Australia. He has also been a senior adviser to the Dongtan Eco-City project on Chongming Island, Shanghai. Herbert is author and co-author of 12 books and 50 TV documentaries for major broadcasters. He is an Honorary Fellow of Royal Institute of British Architects, a patron of the Soil Association, UK, and a Visiting Professor at University of the West of England. In 2004 Wiley-Academy published his book 'Cities, People, Planet – Urban Development and Climate Change'. In 2007 he edited 'Surviving The Century – Facing Climate Change and other Global Challenges,' published by Earthscan. He has recently completed, 'A Renewable World – Energy, Ecology, Equality,' which was published by Green Books, UK.



GLEICK, Peter H.

Co-founder and President, the Pacific Institute for Studies in Development, Environment, and Security

Dr. Peter H. Gleick is Co-Founder and President of the Pacific Institute for Studies in Development, Environment, and Security in Oakland, California. His research and writing address the critical connections between water and human health, the hydrologic impacts of climate change, sustainable water use, privatization and globalization, and international conflicts over water resources. Dr. Gleick is an internationally recognized water expert, he was nominated MacArthur Fellow in October 2003 for his work. In 2001, Gleick was dubbed a "Visionary on the Environment" by the British Broadcasting Corporation. In 1999, Gleick was elected an Academician of the International Water Academy, in Oslo, Norway; in 2006, he was elected by the National Academy of Sciences, Washington; D.C. Gleick received a B.S. from Yale University and an M.S. and Ph.D. from the University of California, Berkeley. He serves in the boards of numerous journals and organizations, and is the author of many scientific papers and seven books, including the Biennial Water Report. *The World's Water*, published by Island Press (Washington, D.C.)



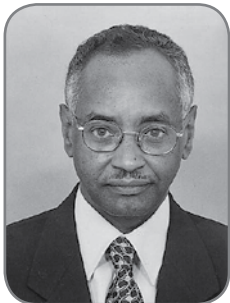


GRENIER, Christian

CEO, The World Life Sciences Forum, BioVision

Christian Grenier, MBA, is the CEO of BioVision, the World Life Sciences Forum where Nobel Laureates and other prominent scientists dialogue with social society: Heads of UN Agencies, European Commissioners, Business leaders and NGOs Representatives. Dialogue concerns the impact of major life sciences discoveries and the solution to global issues.

BioVision takes place every 2 years in Lyon, France and has strong links with BioVision Alexandria, Egypt. About 120 speakers and 1500 participants attend the event. Christian Grenier is a successful biotech entrepreneur. He was co-founder in 2000 of UroGene, a biotech company specialized in urology disorders which he sold to a major pharmaceutical company in 2009. Mr. Grenier holds numerous board member positions in European biotech companies and is a lecturer in the entrepreneurship program of HEC business school.



HASSAN, Mohamed

Executive Director, TWAS-the Academy of Sciences for the Developing World; and President, African Academy of Sciences

Mohamed H.A. Hassan is an Executive Director of TWAS - the Academy of Sciences for the Developing World, President of the African Academy of Sciences (AAS) and Co-Chair of the InterAcademy Panel on International Issues (IAP), he also serves in a number of committees in other international organizations. He was born in Sudan in 1947, and holds a Ph.D. in Plasma Physics from the University of Oxford, UK (1974). He was former Professor and Dean of the School of Mathematical Sciences at the University of Khartoum. He received the order of Scientific Merit of Brazil. He is a fellow of TWAS, AAS, and the Islamic Academy of Sciences, as well as Honorary member of the Colombian Academy of Exact, Physical and Natural Sciences. He is also corresponding member of the Belgian Royal Overseas Academy of Sciences, and Foreign Fellow of the Pakistan Academy of Sciences. His research areas include theoretical plasma physics, physics of wind erosion and sand transport. He is married and has two daughters and a son.

HAYASHIZAKI, Yoshihide

Project Director and Chief Scientist, Genome Exploration Research Group, Genomic Sciences Center, RIKEN



Yoshihide Hayashizaki received his M.D. and Ph.D. from Osaka University, Medical School in 1982 and 1986, respectively. In 1992, he joined RIKEN, and was appointed Project Director for the RIKEN Genome Project in 1995. Since then he has taken a transversal data-driven approach to analyze transcriptomes by developing unique technologies including a series of full-length cDNA technologies. With this approach, he established large full-length cDNA clone banks, which was followed by the organization of the FANTOM (Functional Annotation of Mammalian cDNA) project. This project is carried out by an international consortium, originally to annotate a large number of cDNA and subsequently expanded to transcriptome and network analysis. The FANTOM activities revealed that more than 63% of the genome — not just the ~1.5% fraction that are protein-coding exons — is transcribed as RNA. In 2008, he was appointed Director of the Omics Science Center. The center was established to link a variety of omics subdisciplines to molecular networks and pathways. This is meant to advance the understanding of biological phenomena as systems at a molecular level.

HENTSCHEL, Christopher

President and CEO, Medicines for Malaria Venture



A bio-pharmaceutical executive with more than 25 years international R&D and technology transfer management experience in both private and public sectors. Doctorate in Biochemistry, King's College, London. Early career focused on basic biomedical research, including as a Fogarty Fellow at NIH, USA. He serves as an alternate Member of the Roll Back Malaria (RBM) Partnership Executive Committee, representing the product development constituency. CEO of MMV since 2000 but stepped down in 2010.

**HERRLING, Paul**

Head of Corporate Research, Novartis International AG

Paul Herrling is Head of Novartis Institutes for Developing World Medical Research (NIDWMR) in Novartis Institutes for Biomedical Research (NIBR), a position he assumed in February 2010. He is also Chairman of the Board of the Novartis Institute for Tropical Diseases (NITD) in Singapore, a long-term endeavor to advance medical research in tropical infectious diseases, which historically have received little drug-research funding. In addition, he oversees the Friedrich Miescher Institute (FMI) in Basel, Switzerland, the Genomics Institute of the Novartis Research Foundation (GNF) in California, USA and the Novartis Vaccines Institute for Global Health (NVGH) in Siena, Italy. Prior to his current position, Paul Herrling was Head of Corporate Research in Novartis supervising the aforementioned institutes, Head of Global Research of Novartis Pharma and a member of the Pharma Executive Committee (PEC). In this capacity, he directed the integration of the research organizations of Sandoz and Ciba-Geigy following their merger in 1996 to form Novartis. Paul Herrling joined Sandoz Pharma in 1975 and held various positions in research at both Sandoz in Basel, Switzerland and Wander in Bern, Switzerland. In 1985, he became Head of the Sandoz Research Institute in Bern and Head of the Preclinical CNS Research Department at Sandoz Pharma in Basel. In 1992, he was made Head of Preclinical Research Basel for Sandoz Pharma and, in 1994, Head of Corporate Research. He is also a Professor of Drug Discovery Science at the University of Basel, Switzerland. In addition to scientific editing activities, he serves on several boards, most notably Board of Trustees of The Scripps Research Institute, University Council of the University of Basel and the Scientific Advisory Committee of the Drugs for Neglected Diseases Initiative (DNDi). Since January 2008 he is also the Vice-President of the ETH Board (Swiss Federal Institutes of Technology).

**HESSE, Christoph**

Assistant Professor in Architecture and Urban Design, Technical University Darmstadt

Education: Harvard University, Master of Architecture in Urban Design (MAUD) with Distinction Massachusetts Institute of Technology 'Social Theory and the City' Eth Zurich - Swiss Federal Institute of Technology Zurich Master of Architecture (hons.). Teaching Positions: Assistant Professor of Architecture and Urban Design at Department of Planning and Building International at Technical University Darmstadt, Germany, Teaching Fellow and Studio Instructor in Architecture at Graduate School of Design, Harvard University; Research: Mega City Research Project, Ho Chi Min City, (Saigon), Vietnam (Coordinator: BTU Cottbus, Sponsor: Federal Ministry of Research and Education Germany).

HUANG, Jianshi

Assistant President of Chinese Academy of Medical Sciences



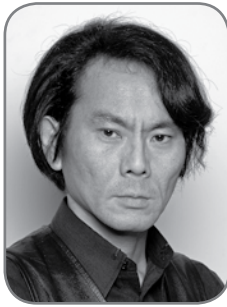
MD, MHPE, MPH, MBA, a Professor of Epidemiology and Dean for the School of Public Health at the Chinese Academy of Medical Sciences/ Peking Union Medical College. Dr Huang is one of the earliest scholars in China promoting health management theory and practice. He played a key role in the planning and establishment of a government certified new occupation named "Health Management Specialist". He is the team leader in setting the national occupation standard for Health Management Specialist. He is also one of the two editors in chief for the official textbook for Health Management Specialist in China. He has published more than a dozen papers and several books in the health management area. He has given 171 talks on health management between 2005-2009 with accumulated audiences of more than 30,000 to health management professionals and others directly and more than 100 million person-times through TV and radio coverage. Currently he is the Vice Chairman of the Health Management Association, the China Medical Association, the Vice Chairman of the Health Management and the Health Insurance Committee of Chinese Doctor Association, the Vice Chairman of the Health Risk Assessment and Control Committee of the Chinese Association of Preventive Medicine, the Deputy Editor in Chief for the Chinese Journal of Health Management and the Editor in Chief for the Health Management magazine. Dr. Huang received his Medical Degree from the Sun Yet Sen University of Medical Science at Guangzhou, China, 1983, and two master degrees from the University of Illinois at Chicago, USA (Master of Health Professions Education (1988) and Master of Public Health (1990) specialized in epidemiology), and a Master of Business Administration (MBA) from Ashland University of Ohio, USA 1997. Dr. Huang has spent 17 years in the United States and Canada. Dr Huang published productively in peer review journals and in news media.

HÜLSHÖRSTER, Christian

Director, DAAD, Cairo Office



Dr. Christian Hülshörster is currently the Director of the DAAD Cairo Office. After completion of his Doctorate studies in German literature at the Westfälische Wilhelms-Universität Münster in 1996, he worked for four years as a DAAD Guest Professor at Chulalongkorn University Bangkok and was Head of the DAAD Office in Bangkok. After returning to Germany he became head of the unit - International University marketing for 5 years at DAAD headquarters in Bonn where he was responsible for the worldwide marketing campaign, "Study and Research in Germany". Since 2005, Dr. Christian Hülshörster is the Head of the DAAD Branch Office, Egypt (Region: Middle East – North Africa) where he is responsible for personnel (18 employees), financial management, overall program responsibility, representation of the DAAD in Egypt and the region as well as extensive business travel in the region.

**ISHIGURO, Hiroshi**

Professor, Osaka University

Hiroshi Ishiguro received a D.Eng. in systems engineering from the Osaka University, Japan in 1991. He is currently a Professor of Department of Systems Innovation in the Graduate School of Engineering Science at Osaka University (2009–). He is also Visiting Group Leader (2002–) of the Intelligent Robotics and Communication Laboratories at the Advanced Telecommunications Research Institute, where he previously worked as Visiting Researcher (1999–2002). He was previously Research Associate (1992–1994) in the Graduate School of Engineering Science at Osaka University and Associate Professor (1998–2000) in the Department of Social Informatics at Kyoto University. He was also Visiting Scholar (1998–1999) at the University of California, San Diego, USA. He was Associate Professor (2000–2001) and Professor (2001–2002) in the Department of Computer and Communication Sciences at Wakayama University. He was also a professor (2002–2009) in the Department of Adaptive Machine Systems in the Graduate School of Engineering Science at Osaka University. His research interests include distributed sensor systems, interactive robotics, and android science.

**JÄGER, Raimund**

Head, Research Group “Biomedical Materials and Implants”, Fraunhofer-Institute for Mechanics of Materials

Raimund Jaeger studied physics at the Albert-Ludwigs Universität in Freiburg (Germany) specializing in polymer physics. After graduating in 1991 as “Diplom-Physiker”, he was graduate student at the University of Toronto in Canada, obtaining his PhD in physical chemistry in 1995. A period as Post-Doc (1996–1998) at the Universiteit Twente (The Netherlands) at the Department of Chemical Technology and was followed by an employment at the Agro-technological Research Center ATO in Wageningen (The Netherlands) as programme coordinator for packaging technology (1998–2002). Since 2002, he is head of the research group “Biomedical Materials and Implants” at the Fraunhofer Institute for Mechanics of Materials IWM in Freiburg (Germany). The research group employs typically a combination of experiments and simulations in order to study the reliability and performance of biomedical materials and implants. In addition to investigating conventional biomedical materials and implants, the research activities also include the mechanics of fibrous structures (e.g. electro-spun non-wovens), the use of generative manufacturing techniques in biomedical science and the tribology of biomedical materials.

KENT, Alastair

Director, Genetic Interest Group

Alastair Kent is the Director of the Genetic Interest Group (GIG) - the UK alliance of charities and support groups for people affected by genetic disorders. GIG's mission is to promote the development of the scientific understanding of genetics and the part that genetic factors play in health and disease, and to see the speedy transfer of this new knowledge into improved services and support for the treatment of currently incurable conditions. Prior to joining GIG, Alastair worked for a number of voluntary organizations on issues concerning policy, service development and disabled people



KERR, David

Director of Qatar Biomedical Research Institute

David Kerr has been given a 5 year leave of absence from the University of Oxford to become the Chief Scientist for SIDRA, an academic Health Science Centre (www.sidra.org) endowed with \$ 8 billion, and Director of Qatar's national Biomedical Research Institute. From there, he plans to build a collaborative biomedical research network through the Middle East and contribute to improving Global Health. He has been appointed to the Supreme Council of Health, effectively Qatar's Health cabinet, practices medicine in 'Al Amal Cancer Hospital' and contributes to Oxford as Professor of Cancer Medicine where he has worked with colleagues to build a new Institute for Cancer Medicine and Cancer Hospital. He is internationally renowned for his contributions in the treatment of and research into colorectal cancer. He is currently developing new approaches to cancer treatment which involve novel biomarkers and inhibitors of key biochemical pathways. He was awarded several international prizes and the first NHS Nye-Bevan award for innovation. He has published more than 350 articles in peer-reviewed journals (including New England Journal of Medicine, Lancet, Nature Genetics) and has contributed many books on cancer.



**KILAMA, John**

President, Global Bioscience Development Institute

Dr. Kilama is an expert in policy development on healthcare, biotechnology, bioprospecting and intellectual property. He has experience in pharmaceutical and agrochemical chemistry. He is a Founder of Global Bioscience Development Institute (GBDI). He developed GBDI's Biodiversity, Biotechnology and Law training curricula used to train professionals in Africa and other developing countries. Dr. Kilama is also an expert in evaluation of technical assistance and international trade regulations for their impact on the economic development of developing countries. Dr. Kilama facilitated several effective partnerships between multinational corporations and institutions (private and public) in developing nations. Born in Uganda, Dr. Kilama received his PhD in Medicinal Chemistry from the University of Arizona, a Pharmacy degree from the University of Kentucky, and a Bachelors degree in Chemistry from Berea. Dr. Kilama worked in DuPont as a Senior Medicinal Research Chemist and is the holder of several patents. Dr. Kilama was on the Board of Directors of Public Private Partnership for Health (PPPH) Global Forum for Health Research, Geneva, Switzerland and Public Interest Intellectual Property Advisors, Inc., Washington DC, USA. He is currently a member of Board of Directors of Pytica Inc., and is an Advisor to Global Health at The Children Hospital of Philadelphia, Scientific Advisor to Institute of One World Health and the International Organization for Chemistry in Development (IOCD), Belgium.

**KOTZE, Maritha**

CEO, Knowmix Cape Biotech Trust

Prof Maritha Kotze is the founder and CEO of Gknowmix, a healthcare company that developed a business process for integration of clinical assessments, laboratory analysis and reporting through a web-based genetic testing service delivery system. She maintains close links with academia as she is appointed as Senior Researcher at the University of Stellenbosch, promoting genome research innovation among students, scientists and clinicians. Dr Maritha Kotze obtained her BSc, BSc honours and MSc degrees cum laude at the University of Stellenbosch. Since obtaining her PhD degree in 1990, she has supervised more than 10 PhD post-graduates. She has been awarded the Rector's Award for Research Excellence in 1999. She received a patent incentive award for Research Innovation in 2005 and was identified during this time by the Institute for Scientific Information in the USA as one of the 20 highest ranking active publishers in the Biomedical field in South Africa. Her publications include more than 100 peer-reviewed articles and book chapters. Maritha has been an invited speaker at numerous national and international scientific meetings and is a regular presenter and facilitator of CPD accredited lectures. The Gknowmix system was developed under the auspices of the Innovation Centre of the South African Medical Research Council and was partly funded by the Industrial Development Corporation of South Africa.

KRATTIGER, Anatole

Adjunct Professor, Arizona State University

Anatole Krattiger works on strategic and intellectual property aspects related to Agri-biotechnology and Global Health at the crossroads of development, government, science, businesses, and philanthropy. He teaches at the Sandra Day O'Connor College of Law at Arizona State University, and at Cornell University. He also considered a world-wide consultant. He became a farmer in Switzerland where he studied agronomy. He obtained a masters degree and PhD in plant breeding/genetics from Cambridge University, England. He worked at the CIMMYT in Mexico, one of the centers of the CGIAR. He was the Executive Director of ISAAA for seven years, and served as Executive to the Humanitarian Board for Golden Rice. He is a member of the Advisory Board of the Franklin Pierce Law Center, founding Board Member of the Black Sea Biotechnology Association; Editor-in-Chief of Innovation Strategy Today, and served as Editor-in-Chief to the recent publication titled, 'Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices'.



LANGLAIS, Chrystelle

Senior Engineer, SUEZ Environment

Educational background: Dr Chrystelle Langlais received her PhD degree thesis from the French Universities of Poitiers and Rennes, 1998, in Chemistry and Microbiology of Water. Professional experience: she has been working for Suez Environment since 1997. She began her professional career in Russia for Safège Consulting. She joined the Research department of Degrémont in 1998 as project engineer then as Director of the Drinking Water, desalination and Reuse research department of Degrémont from 2005 to 2008, dealing with membranes technologies applications and operations with a special emphasis on how to use wisely membranes in these different treatment lines. She joined the Cirsee-Suez Environment in 2009 as expert in Wastewater and Reuse applications. Additional information: in 1999 she awarded Prix Hallopeau by the International Ozone Association for her original PhD research.



**LAPORTE, Ronald**

Professor of Epidemiology, Graduate School of Public Health, University of Pittsburgh

MS in Psychology in 1975; Ph.D. in Cognitive Psychology in 1977; Masters degree in Epidemiology, 1981. 531 publications in Epidemiology, Global Health, and Internet. First Distinguished Teacher, Graduate School of Public Health, University of Pittsburgh, 1989. Lillienfeld Award, APHA for life time achievement in education. Director, Disease Monitoring and Telecommunications, WHO Collaborating Center, Department of Epidemiology. Developer and PI of the WHO Multinational Project for Childhood Diabetes, involving 155 centers in 70 countries. Developed of the Global Health Network, 1994. Numerous funded national and international projects from NIH, and NASA. Kelly West Diabetes Epidemiology Award from the American Diabetes Association. Developed the Supercourse which involved 56,000 faculties from 174 countries.

**LAZDINS-HELDS, Janis K.**

Head, Novartis Vaccines Academy, Novartis Vaccines and Diagnostics

Janis K. Lazdins-Helds, MD, PhD. Medical degree (1970) from the University of Carabobo, Venezuela. Ph.D. (1978) in Cell and Developmental Biology from Harvard University in Boston, USA. Academic tenures at the Venezuelan Institute for Scientific Research, Harvard University; The National Institutes of Health, NCI, Bethesda, USA; and Universita La Sapienza, Rome, Italy. Biomedical research in tuberculosis, schistosomiasis, HIV and cancer biology. In the Pharmaceutical industry, he discovered new drugs for HIV, cancer, malaria and helminths. In 1998, he joined the WHO Special Program for Research and Training in Tropical Diseases where he became the Director of the Product Development and Evaluation Unit for the African Programs for Control of Onchocerciasis Lymphatic filariasis, African and American trypanosomiasis, Schistosomiasis, Leishmaniasis and Dengue fever. He was a member of several WHO working groups addressing product R&D for neglected diseases; WHO resolution on Public Health, Innovation and Intellectual Property. He is a member of the WHO Guidelines Review Committee, and the Editorial Adviser for the Bulletin of the World Health Organization. He has conducted several researchers in America, Africa and Asia. Currently he is the Director of the Novartis Vaccines Academy which addresses collaboration between industry and academia for accreditation programs in the area of vaccine R&D. He is Fluent in Spanish, English and Italian.

LECKEBUSCH, Gregor C.

Associate Professor, freie Universität Berlin

Dr. Gregor C. Leckebusch is Associate Professor at Freie Universität Berlin. The main research interests are focused on the diagnosis of natural and anthropogenic induced climate variability and related impacts on large scale to synoptic scale processes. The understanding of underlying physical mechanisms is therefore of crucial importance. During his scientific work he gained experience in the analysis of meteorological processes on different time and spatial scales, i.e. from paleo-climate conditions to regional modelling within statistic-dynamical downscaling techniques. Actually, his research is focused on the estimation of anthropogenic climate change impacts of meteorological extreme events. He achieved high level skills in the realisation of interdisciplinary projects. He has contributed to previous and ongoing EU projects (MICE, ENSEMBLES, CIRCE) which scientific outcome build up the basis of the ongoing work focused on the understanding of the climate risk at regional scale and the quantitative estimation of anthropogenic climate change impacts e.g. on insurance business.



LEISINGER, Klaus M.

President and Executive Director, Novartis Foundation for Sustainable Development

Klaus Leisinger is appointed at the Novartis Foundation for Sustainable Development where he is the Chief Executive Officer and President of the Board of Trustees. The Foundation has consultative status with the Social and Economic Council of the United Nations. In addition, Klaus Leisinger is Professor of Sociology at the University of Basel where he teaches Business Ethics, Corporate Social Responsibility as well as Human Rights and Business. Klaus Leisinger was a guest speaker at several Swiss and German Universities, the University of Notre Dame, De Paul University, the MIT Sloan School of Management (Cambridge), and at Harvard University. He is a member of the European Academy of Sciences and Arts. Klaus Leisinger has held and still holds several advisory positions in a number of national and international organizations, such as the United Nations Global Compact, the United Nations Development Program (UNDP), the World Bank (CGIAR), Asian Development Bank, the Economic Commission for Latin America (ECLA), and the UN Economic and Social Council. Between September 2005 and December 2006, Klaus Leisinger served as Special Advisor of the United Nations Secretary General for the UN Global Compact Kofi Anan. For his sustained engagement “Pro Pace et Justitia” as well as for his academic work in Business Ethics he was awarded a “Doctor Honoris Causa” in Theology by the University of Fribourg (Switzerland).



**LINKOV, Faina**

Research Assistant Professor of Medicine, University of Pittsburgh School of Medicine

Faina Linkov is a Research Assistant Professor of Medicine at the University of Pittsburgh School of Medicine, Department of Medicine, Division of Hematology and Oncology. Dr. Linkov holds a PhD in Epidemiology, MPH in Community and Behavioral Health Sciences, and a Certificate of Advanced Studies in Global Health from the University of Pittsburgh. In the past ten years, Dr. Linkov has been working with Professor Ronald Laporte in the Global Health Network Supercourse Project. Supercourse is an open access Internet based library containing 4200 lectures on Public Health and Diseases Prevention with over 58,000 participants from 174 countries. One of the main goals of the Supercourse developers is to close the digital divide and deliver public health education materials to faculty members in the developing world. Dr. Linkov's research interests include cancer, global health, digital divide, women's health, and peer review mechanisms. Dr. Linkov's current research activities is focused on the use of biological tumor markers to detect premalignant changes. She published over 40 peer reviewed papers and chapters on cancer epidemiology and global health. Dr. Linkov served as a peer reviewer for the British Medical Journal (BMJ), Journal of Medical Internet Research, and others.

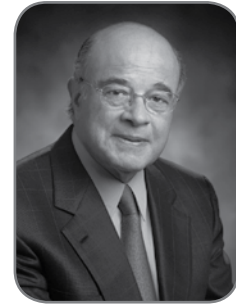
**MADKOUR, Magdy**

Chairman, Technical Committee, Agricultural Research for Development Fund-ARDF

Professor Magdy Madkour, is the Head of Biotechnology at the Arid Lands Agric. Research Inst., Ain Shams Univ., Egypt, Chairman of the Technical Committee, Agric. Research for Development Fund (ARDF), Agric. R&D Council, Ministry of Agriculture and Senior Advisor to Bibliotheca Alexandrina. He was the Assistant Director General for International Cooperation, ICARDA(2004-2006). Prof. Madkour obtained his PhD from the Univ. of Wales, UK in Physiological Plant Pathology, was appointed Prof. of Plant Pathology, Alexandria Univ. Egypt (1982-1989), Visiting Prof. Univ. of California, Davis (1989-1990). In 1990 he established the Agricultural Genetic Engineering Research Institute (AGERI-Egypt) and appointed Vice President then President of the Agricultural Research Center, Egypt (2001-2004). He served on the Technical Advisory Committee of the CGIAR (1996-2000), and on the Board of Trustees of ICARDA and IPGRI (Bioversity). He was decorated with Egypt's Gold Medal from the President of Egypt as the recipient of the State Award of appreciation in Advanced Agricultural Technologies in 2007. He also received three AOAD awards for scientific excellence, and the FAO World Food Day recognition in 2001. Three patents for novel biological insecticides were issued in his name. Prof. Madkour authored 140 peer reviewed scientific publications and contributed with chapters in 7 international text books.

MAHMOUD, Adel

Professor, Department of Molecular Biology, Princeton University and Former President, Merck Vaccines



Adel A. F. Mahmoud, M.D., Ph.D is currently appointed at The Woodrow Wilson School of Public and International Affairs and The Department of Molecular Biology at Princeton University. He has recently retired from his post as President of Merck Vaccines. Prior to that, he served at Case Western Reserve University and University Hospitals of Cleveland as Chairman of Medicine and Physician-in-Chief. Dr. Mahmoud's academic pursuits focused on investigations of host resistance to helminthic infections and strategies for their control. While working at Merck, Dr. Mahmoud developed four new vaccines a combination of Measles, Mumps, Rubella and Varicella vaccine; Rota Virus vaccine; Shingles and Human Papillomavirus vaccine. Dr. Mahmoud received his M.D. degree from the University of Cairo in 1963 and Ph.D from the University of London, School of Hygiene and Tropical Medicine in 1971. He was elected for the membership of the 'Institute of Medicine of the National Academy of Sciences' in 1987. He received the 'Bailey K. Ashford Award' of the American Society of Tropical Medicine and Hygiene in 1983, and the 'Squibb Award' of the Infectious Diseases Society of America in 1984. He served in the National Advisory Allergy and Infectious Diseases Council and is a past president of the Central Society for Clinical Research and the International Society for Infectious Diseases. Dr. Mahmoud is currently a member of the National Science Advisory Board for Biosecurity and Committee on Scientific Communications and National Security (CSCANS) of the National Academy of Sciences.

MAISONNIER, Bruno

CEO, Aldebaran Robotics



CEO and founder of Aldebaran Robotics, the 1st European company specialized in design and sales of programmable humanoid robots. Graduated from Polytechnique and Telecom Paris, his career was built on two pillars: IT and management of banks. He first worked for 10 years as IT manager of various banks and high tech companies, until he became DP manager of a bank, where he headed multi-partners projects. He then became successful CEO of international financial companies (Brazil, Poland and Portugal) improving thus his multicultural management skills. Fascinated by robotics for years, he has been closely following this market and its evolution for the past 25 years, waiting for the right time to launch his company, 'Aldebaran Robotics', founded in 2005, thus becoming one of the pioneers of this new industry.



MARTIN, Jacques-François
President and CEO, Parteurop

Jacques-Francois Martin, Chairman and CEO of Parteurop Biographical Information. In 1976, Martin joined the Institut Mérieux as VP of Sales and Marketing, where he largely contributed to the international expansion of Mérieux. He was nominated CEO, in 1988, and successfully negotiated with the Government of Canada for the acquisition of Connaught Laboratories. In 1991, Martin set up Parteurop, a biotech consulting company based in Lyon, France. From September 1996 to September 1999, he was a Board member of INSERM (the French National Institute of Health). From 1994 to 1997, Martin served as the Chairman of the Biological Committee of the International Federation of Pharmaceutical Manufacturers Associations. As such, he was a member of the Scientific Advisory Group of Experts of WHO (SAGE). From November 1997 to June 2003 he was a member of the Board of the International AIDS Vaccine Initiative (IAVI). From 2000 to January 2005, Martin was the first President and CEO of the vaccine fund. He lead the fund's efforts to provide lifesaving vaccines and other immunization program support to low-income countries, which facilitated his membership in the Board of GAVI (Global Alliance for Vaccines and Immunization). He is Chairman and CEO of Mymetics (Epalinges-Switzerland). He is also a member in the boards of several life sciences companies. Martin holds an MBA from HEC-Paris France. He is a member of the French Academy of Technologies and an officer in the French Order of Merit.



MARTON-LEFEVRE, Julia
Director General, The World Conservation Union (IUCN)

Julia Marton-Lefevre is Director General of the International Union for Conservations of Nature (IUCN), which brings together governments, NGOs and scientists in a unique world partnership of over 1000 members spread across the globe. Julia is a member of a number of boards and commissions including the Council of UPEACE, the Board of Directors of LEAD International, the International Institute for Environment and Development (IIED), the Board of Trustees of the Bibliotheca Alexandrina, the Council of Earth Charter International, and the China Council for International Cooperation in Environment and Development. She has also served in ICSU's Committee on Science and Technology in Developing Countries (COSTED), the InterAcademy Council's Panel on promoting worldwide science and technology capacities for the 21st Century, and in the jury of the Saint Andrew's and Alcan Prizes. Born in Hungary and educated in the United States and France, J. Marton-Lefevre has co-authored numerous books and papers. In 1999 she received the AAAS Award for International Cooperation in Science. In 2008, she was awarded the "Chevalier de l'Ordre national de la Légion d'Honneur" by the French Government and was nominated Global Ambassador for Hungarian Culture by the Hungarian Minister of Education and Culture. She is a Fellow of the Royal Geographical Society of the United Kingdom and a Fellow of the World Academy of Art and Science.

MATRICARDI, Paolo

Professor, Department of Pediatric Pneumology and Immunology, Charité University Medical Centre

Paolo Maria Matricardi. Born in Rome in 1958. Graduated in Rome (1982), trained in Allergology, Clinical Immunology (1986), Lab Medicine (1990). He worked at the Allergy and Immunology Research Center (IAF, Rome), Biochemistry Institute, UNIL (Lausanne, CH), World Health Organization (Geneva, CH) and currently in the Dept. of Paediatric Pneumology and Immunology at the Charité Medical School (Berlin, D). Major current research interests: hygiene hypothesis, evolution and clinical impact of IgE responses in childhood, prediction and prevention of allergy in childhood



MCNEELY, Jeffrey

Senior Science Advisor, International Union for Conservation of Nature (IUCN)

Jeffrey A. McNeely is Senior Science Advisor at IUCN, where he has worked since 1980. Before joining IUCN, he spent twelve years in Thailand, Indonesia, and Nepal, where he conducted research and practical application of resource management activities. As IUCN's Senior Science Advisor, he is responsible for overseeing the work of the world's largest conservation network, with over 1,000 institutional members and 10,000 scientists and other specialists working in biological conservation. He has written and edited over 40 books and 500 popular and technical articles on a wide range of environmental topics, as well as serving on the editorial board of 14 international journals. His current work includes linking biodiversity to sustainable agriculture, human health, biotechnology, climate change, energy, and more traditional fields of IUCN interest such as species, protected areas, ecosystems, and economics. He also holds several positions: Chairman of the Board of Ecoagriculture Partners; Chair of the Policy Committee of the Society for Conservation Biology; member of the Scientific and Technical Council of the International Risk Governance Council; Science Patron of Earthwatch Europe; a member of the Board of Trustees of the Foundation for Environmental Conservation; fellow of the World Academy of Art and Science; member of the UNEP International Panel for Sustainable Resource Management; an A.D. White Professor at Large at Cornell University; an Adjunct Professor at Peking University; and a Member of the Order of the Golden Ark.



**MORRIS, Jane**

Director, African Centre for Gene Technologies

Director of the African Centre for Gene Technologies (ACGT), an initiative of the CSIR, University of Pretoria and University of the Witwatersrand to establish a network of expertise in advanced bioscience. Morris obtained her Training in biochemistry in Scotland (BSc Hons St Andrews, PhD Aberdeen). She worked in the CSIR in South Africa, and in the University of British Columbia in Canada. She later joined AECI Ltd in South Africa, where she became manager of biotechnology R&D in an industrial environment. Rejoining the CSIR in 1999, she was responsible for the Strategic Technology Group in the division of Food, Biological and Chemical Technologies before taking on her current role. Morris is strongly associated with biotechnology and biosafety in Africa. She participated in various SA government delegations thus establishing biotechnology links with other countries. She also served as external evaluator of various international programs, as a member of the Program Advisory Committee for the SIDA Bio-EARN program, and as a member of an international team evaluating capacity building under the Cartagena Protocol. Morris chairs the steering committee of SAMI (South African Malaria Initiative). She was instrumental in the establishment of the SABINA program (Southern African Biochemistry and Informatics for Natural Products), a Carnegie Regional Initiative in Science and Education (RISE); and is responsible for a new project, 'POL-SABINA' funded through the EU Africa Caribbean and Pacific program (EU-ACP).

**NAKHLA, Rafik**

Vice President, Human Resources and Administration, Projacs International

Rafik Nakhla, pharmacist, holds a Master degree in Quality Management from the University of Wolverhampton, (U.K.) After five years of training and experience in sales in the Pharmaceutical industry, he became a lecturer in Sales and Marketing in the AUC and a visiting lecturer in the AAGSB. In October 2002 he became Training and Human Resources consultant in the Bibliotheca Alexandrina (BA). He is also the former Director of Personnel. He contributed in several international conferences in BA; Biotechnology voices of the North and the South in 2002; Ethical and Social Responsibility of Science and Technology in 2002; Teaching Math and Science in the 21st century in 2003; and BioVision Alexandria in 2004. He participated in the pre conference workshop of the Arab Reform Forum and the Education Reform Forum. He is a member of the 2005 Board of Examiners of the National Award for Excellence. Some of his publications are : Nakhla, R. (2004), 'Biotechnology a Controversial Technology', 'Alexandria: Bibliotheca Alexandrina', Nakhla, R. (2003); 'Biology Curriculum in Secondary Schools in Egypt', 'Alexandria: Bibliotheca Alexandrina', 'El Tayeb, M., El Mofty, M., Eid, M., Refai, A., Abdo, A., Nakhla, R. (2005); 'Reform Issues in Continuous Education and Vocational Development', 'Alexandria: Bibliotheca Alexandrina'; 'Education Reform Forum', Schneider, C., Nakhla, R., Soliman, S., Erbisch, F. (2004); 'An Overview of BioVision Alexandria 2004', Alexandria: Bibliotheca Alexandrina/The Doyle Foundation.

NICOLELIS, Miguel

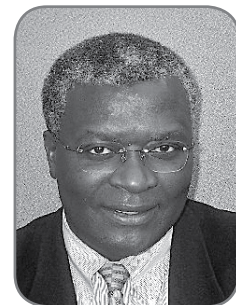
Professor, Neurobiology Biomedical Engineering and Psychological and Brain Sciences and Co-Director, Center for Neuroengineering, Duke University Medical Center



Dr. Miguel Nicolelis is the Anne W. Deane Professor of Neuroscience and Professor of Neurobiology, Biomedical Engineering and Psychology at Duke University. He is also Co-Director of Duke Center for Neuroengineering; and Co-Founder and Scientific Director of the Edmond and Lily Safra International Institute for Neuroscience of Natal. Dr. Nicolelis is a native of Sao Paulo, Brazil where he received his M.D. and Ph.D. in Neurophysiology from the University of Sao Paulo. Although for the past decade, Dr. Nicolelis is best known for his pioneering studies of Brain Machine Interfaces (BMI) and Neuroprosthetics in human patients and non-human primates, he has also developed an integrative approach to studying neurological and psychiatric disorders including Parkinson's disease, Epilepsy, Schizophrenia and Attention Deficit Disorder. He has also made fundamental contributions in the fields of sensory plasticity, gustation, sleep, reward and learning. Dr. Nicolelis believes that this approach will allow the integration of molecular, cellular, systems, and behavioral data in the same animal, producing a more complete understanding of the nature of the neurophysiological alterations associated with these disorders.

NIYIKIZA, Clet

Vice President of GlaxoSmithkline



Dr. Niyikiza is Executive Vice President of Medicine Development for Merrimack Pharmaceuticals in Cambridge, MA, USA. Prior to this role, Dr. Niyikiza served as Vice President and Medicine Development Leader for GlaxoSmithKline and as a member of the company's Medicine Development Operations Board from 2005 to 2009. He joined the pharmaceutical industry in 1991 working first for Syntex and then for Eli Lilly. Dr. Niyikiza became Lilly's worldwide leader of the pharmacogenomics program following completion of the human genome project. At Lilly, he is credited for groundbreaking research and for developing a strong international network of investigators and regulatory authority policy makers that resulted in effective development and efficient registration of 10 new drug indications for many of Lilly medicines. His landmark scientific achievements at Lilly were featured in a front page 'Wall Street Journal' article on April 21, 2004. Since March 2006, Dr. Niyikiza serves on former US President George Herbert Walker Bush Committee for C-Change, a United States national forum of senior leaders from business, academia and government (Federal and State) dedicated to cancer research, treatment and prevention. Since September 2007, Dr. Niyikiza has been appointed as the Presidential Advisory Council of H.E. Paul Kagame, President of the Republic of Rwanda. He focuses on healthcare and human capacity development

**NOBEL, Joel**

Founder and Professor Emeritus, ECRI Institute (ECRI)

Joel J. Nobel, M.D Founder and President Emeritus, ECRI Institute. Joel Nobel founded ECRI, a 42-year old U.S. based nonprofit health services research organization. He developed ECRI's overall policies and programs, including its technology assessment, product evaluation, risk management, and technical assistance services. He created the concepts and operating plans for health devices, health devices alerts, the health devices sourcebook, the healthcare product comparison system, select and many other ECRI publications and services. He developed ECRI's international programs, its related World Health Organization (WHO) Collaborating Centre and offices in the United Kingdom to serve Europe, in Malaysia to serve the Asia-Pacific region, and in Dubai to serve the Arabic nations. He has personally directed different projects on the five continents. Dr. Nobel has testified before the U.S. Congress on proposed legislation, ranging from national telecommunications policy to medical device regulation, and has served as a consultant to many federal, voluntary, and international agencies, ministries of health and hospitals. Dr. Nobel received his BA degree with high honors from Haverford College, his MA degree in international relations from the University of Pennsylvania and his MD from Thomas Jefferson University Medical College. His neurosurgical residency was interrupted by military service as a medical officer in the U.S. Navy. He also served on a nuclear submarine.

**NUNES, Suzana**

Principal Research Scientist, KAUST Membranes Research Center

Since September 2009: Principal Research Scientist Membranes Research Center King Abdullah University of Science and Technology (KAUST), Saudi Arabia. Previous positions: Researcher and Head of Dept. Membranes for Sustainable Energy, GKSS, Helmholtz Association, Germany (1997-2009). Associate Professor, University of Campinas, Brazil Humboldt from 1987 to 1997. Fellow, Member Academy of Sciences of Sao Paulo, Brazil Board of directors of European Membrane House.

NUTTI, Marilia

Researcher, National Research Center on Food Technology, Embrapa



Food Engineer, MSc in Food Science at the State University of Campinas, Brazil (1986). Post-Graduate course in nutritional planning at the University of Gent, Belgium (1980) and in consumer studies at the University of Guelph, Canada (1985). Full time researcher and lecturer at the Department of Nutrition and Food Planning, State University of Campinas (1983-1987), being responsible for several courses and a member of examination committees of several MSc theses. Technical Director of Nutricia S.A., Produtos Dieteticos e Nutricionais, leading a group of 40 researchers mainly oriented at R&D of Foods for Special Dietary Uses. From 1996 to 2003, Nutti was General Manager of Embrapa Food Technology, a research unit with 140 employees, including 40 researchers with PhD or MSc. Brazilian delegate at the Codex Alimentarius Committee in Food Labeling (Canada) since 1997 and at the Codex Alimentarius Task Force on Foods Derived from Biotechnology (Japan) since 2000. She is a member of the FAO/WHO Expert Consultation, "Safety Aspects of Genetically Modified Foods of Plant Origin", being part of the roster of experts of FAO/WHO in Biosafety. Nowadays she is a researcher at Embrapa Food Technology, her research being in the areas of food safety, biosafety and labeling of genetically modified foods. Coordinator of the Brazilian Biofortification Network is responsible for the HarvestPlus, AgroSalud and BioFort projects in Brazil.

OBORNE, Michael

Director, the International Futures Programme and the Global Science Forum, OECD



Michael Osborne has been working at the Organization for Economic Cooperation and Development (OECD) since 1980. Previously, he was Head of the Science and Technology Policy Division of OECD, and Deputy Director for Science, Technology and Industry Department of the OECD. At present he is the Director of Multidisciplinary Issues in OECD and also the Director of the OECD's International Futures Programme. He is also the Director for the OECD's Global Science Forum. Mr. Osborne received his BA, MA, PHD at the University of California, Berkeley, at Cambridge University, and at the Ecole Normale Supérieure in Paris. As senior Fulbright professor, he has taught at universities in the United States, Great Britain, France and Italy. In the 1980's he worked on the political economies of the Pacific Basin countries, and published books and articles on technology and direct foreign investment issues in the People's Republic of China. Mr. Osborne has worked extensively in the areas of biotechnology, science policy, innovation policy frameworks, information technology policy and the political economy of China. Currently, the International Futures Programme is working on projects focused on the commercialization of space, the future investment needs for infrastructure, the new security economy (particularly biosecurity issues), monitoring and managing new systemic risks and the emerging bio-economy. Mr. Osborne is the chairman of the OECD Internal Coordinating Group on Biotechnology and Nanotechnology.

**OMI, Koji**

Founder and Chairman, Science and Technology in Society (STS) Forum

In 1956 he held several positions: he graduated from Hitotsubashi University and joined the Min. of Int'l Trade and Industry (MITI); he holds several positions, Consulate General in New York; Director, South Asia & Eastern Europe Div., Trade Policy Bureau; Director, Small Enterprise Policy Div., Small & Medium Enterprise Agency; Director, Admin. Div., Science and Technology Agency; Dir.-Gen., Guidance Dept., SME Agency. First elected in 1983; Parliamentary Vice-minister for Finance; LDP Dir.-Gen. of the Comm. & Ind. Policy Bureau; LDP Dir.-Gen. of the Science & Technology Policy Bureau; Chairman, Standing Comm. on Finance; LDP Dir.-Gen., Election Bureau; LDP Acting Sec.-Gen. Minister for Economic Planning (1997-98), Minister for Okinawa and Northern Territories Aff. and for Science and Technology Policy (2001-02). He played a central role to enact the Fundamental Law of S&T (1995); created the Okinawa Institute of S&T, international and interdisciplinary graduate university; founded the STS forum (2004). Minister of Finance (2006-2007).

**PADILLA, Nicolas**

Professor, School of Nursing and Obstetrics, Celaya University of Guanajuato

Medical Doctor, Pediatrician, Dr in Epidemiology. Professor Associated C in Department of Nursing and Obstetrics, Division of Health Sciences and Engineering, Campus Celaya Salvatierra, University of Guanajuato. Coordinator of Latinamerican Supercourse on Epidemiology, Internet and Global Health Developer Supercourse on Epidemiology, Internet and Global Health Mexican Academy of Pediatrics National Confederation of Pediatrics of Mexico.

PAES DE CARVALHO, João

Principal, BiznessBrazil

Education - MBA from Amos Tuck School of Business, Dartmouth College, USA, and now completing a Masters degree in Environmental Engineering at the Politecnical School of the Federal University of Rio de Janeiro, Brazil.

Career - Has held positions in several businesses in plastics, chemistry, electronics and biotechnology, in the areas of finance, marketing and general management. Has been member and Director of business associations in Electro-electronic and in Biotechnology. Presently is a consultant in general management and manages projects in biotechnology and electro-electronic waste recovery and recycling.



PANDYA-LORCH, Rajul

Head, IFPRI'S 2020 Vision for Food, Agriculture and the Environment Initiative

Rajul Pandya-Lorch, a Kenyan citizen of Indian origin, is head of IFPRI's 2020 Vision for Food, Agriculture, and the Environment Initiative, a global initiative that seeks to identify solutions for meeting world food needs while reducing poverty and protecting the environment. She concurrently serves as Chief of Staff in the Director General's Office. Before taking her current position, Pandya-Lorch was special assistant to IFPRI's former Director General, Per Pinstrup-Andersen. An IFPRI staff member since 1987, she has focused her research on trends in and prospects for Global Food Security and on policies to alleviate and prevent food insecurity, poverty, and environmental degradation, with particular emphasis on sustainable development in Sub-Saharan Africa. She has facilitated two major international conferences on (1) "Sustainable Food Security for All by 2020", in Bonn, Germany on 4-6, September 2001; and (2) "Assuring Food and Nutrition Security in Africa by 2020", in Kampala, Uganda on 1-3, April 2004. In recognition of her achievements, the American Agricultural Economics Association presented Pandya-Lorch, along with Per Pinstrup-Andersen and Mark Rosegrant, the 2002 award for Distinguished Policy Contribution.



**PAPAGEORGIU, Kyriaki**

Coordinator and Assistant, EU Science Counsellor

Kyriaki Papageorgiou received her Ph.D. in Anthropology from the University of California, Irvine. Dr. Papageorgiou's dissertation is entitled "Seeds of Doubt." Her field research was supported by the National Science Foundation, Science and Society Program, the Wenner-Gren Foundation, and the Institute for Global Conflict and Cooperation. In 2006, Papageorgiou received the Regents Dissertation Writing Fellowship and a Graduate Student Fellowship from the Newkirk Center for Science and Society. In 2007, Dr. Papageorgiou received UNESCO fellowship in the field of Ethics of Science and Technology. Dr. Papageorgiou was a Postdoctoral Research Fellow, at the Virtual Knowledge Studio, Royal Netherlands Academy of Arts and Science in Amsterdam in the spring of 2008. She is currently working as the Science and Technology Coordinator at the Delegation of the European Union to Egypt.

**PAPANICOLAOU, Andrew C.**

Director, Center for Clinical Neurosciences, the University of Texas Medical School

Professor Andrew C. Papanicolaou began his academic career as a National Merit Scholar in the School of Philosophy of the National University of Athens, Greece and in 1978, he received his doctorate in Psychology from Southern Illinois University. Since 1980 he has been with the University of Texas Medical School, where he directs the Center for Clinical Neurosciences (www.uth.tmc.edu/clinicalneuro). He is a professor in the Departments of Pediatrics, Neurosurgery and Neurology and he holds adjunct appointments in the Department of Linguistics of Rice University and the Department of Psychology of the University of Houston. In 2002- 2006 he founded and directed the Summer Institute of Advanced Studies of the International Neuropsychological Society. Since 2008 he directs the graduate program in clinical Neuropsychology at the Neurology Department of the National University of Athens. He is a Fulbright Scholar and the recipient of several distinctions and grant awards from NIH, NSF and other federal and private foundations for his research in epilepsy, developmental disorders, brain plasticity and in imaging of the brain mechanisms of cognitive functions, conducted in his two Magneto encephalography laboratories at the Houston Medical Center. He is the author of numerous scientific articles and several books ranging from technical manuals and clinical textbooks to theoretical monographs.

PATELL, Villoo Morawala

Founder and CMD, Avesthagen Limited



Dr. Villoo Morawala-Patell is Founder, Chairperson and Managing Director of AVESTHAGEN LIMITED. AVESTHAGEN which is globally recognized as a leading systems biology company with a unique model focused on the convergence of food, pharma and population genetics. Dr. Patell started her professional career at ICRISAT at Hyderabad in 1978. Dr. Patell completed her PhD in Plant Molecular Biology at University Louis Pasteur, Strasbourg, France, on Fundamental aspects of the plant mitochondrial genome. On her return to India, she established herself as an independent scientist and principal investigator working from NCBS. She created Avesta Gengraine Technologies Pvt. Ltd. in 2000. Dr. Patell has given Avesthagen a strong focus in innovative R&D in diverse areas such as bioAgriculture, bioNutrition & bioPharmaceuticals. She is a key member of the Task Force and Vision Group for Biotechnology, instituted by the State Government of Karnataka and founding member of the Association of Biotechnology Led Enterprises (ABLE). She was also honoured with many awards and felicitations for her work. She was awarded the 'Officer of the National Order of Merit' by the President of the French Republic in April 2008. She also received the prestigious 'Karmaveer Puraskar' as a 'Corporate Citizen' for her contribution in the field of agriculture and healthcare in November 2009 by iCONGO, the Adolfo Ibanez University Award for her achievements in innovation and creation of value, among many others.

PRITCHARD, David

Professor of Parasite Immunology, School of Pharmacy, University of Nottingham



Qualifications: 11 O level, 3 A level passes (Physics, Chemistry, Zoology); BSc Zoology Upper Second, University of Wales, 1973; MSc Immunology, University of Birmingham, 1974; PhD Immunology, University of Birmingham, 1977. Previous Posts: Chair in Parasite Immunology, School of Pharmacy, University of Nottingham, 1996-present; Wellcome Research Leave Fellowship, Honorary Senior Research Fellow, Centre for the Mechanisms of Human Toxicity, University of Leicester, 1996-1998; Reader in Immunology, School of Biological Sciences, University of Nottingham, 1991-1996; Lecturer in Immunology, School of Biological Sciences, University of Nottingham, 1983-1991; MRC Postdoctoral Researcher, University of Nottingham, 1981-1983; Industrial Research Scientist, Fisons (Astra-Zeneca) Loughborough, 1977-1981.



RANGEL-ALDAO, Rafael

Professor, Digital Molecular Medicine, Simon Bolivar University

Rafael Rangel-Aldao received his M.D. from University Central of Venezuela, and Ph.D. at the Department of Molecular Biology, Albert Einstein College of Medicine, New York. He is an Invited Professor of Digital Molecular Medicine at Simon Bolivar University, and CEO of Summum Net, a Biotechnology company of Preventative Health and Wellness. For thirty years, Dr. Rangel-Aldao has served in the Academic Sector as Professor of Biotechnology at several major institutions in Venezuela (1979-2009), and Director of Research and Innovation at Empresas Polar (1987-2005), the largest food conglomerate in Venezuela and the third largest in Latin America. Prof. Rangel-Aldao has several publications in a wide range of topics: biochemistry, molecular biology, chemistry, plant physiology, biomedical research, food product development, and agricultural research and plant breeding. Rangel-Aldao is the author of several triadic patents in Biotechnology related to the food and biomedical industries.



RIOS, Gilbert M.

Chairman European Membrane House (EMH)

Dr. Gilbert M. Rios is a Professor of chemical engineering in Montpellier (France). He is an expert in membrane technologies. He is also the author of more than 120 papers published in international journals, and he participated in more than 100 international conferences. He is also involved in a lot of other tasks of scientific expertise. He is a Fellow of the Institution of Chemical Engineers (London), Member of the European Membrane Society (EMS) and Member of the European Federation of Chemical Engineering (EFCE). He was the former coordinator of the European Network of Excellence on "Nanoscale-based membrane Technologies" (NanoMemPro-FP6 NMP), a large instrument aiming to reorganize the membrane technology area in Europe with the support of the European Commission. He is currently the Chairman of the European Membrane House (EMH), a legal entity created to launch new R&D routes in this field.

RIVERO, Carmela

Vice President, Research and Development, Latin America Foods, PepsiCo



Professor Carmela Rivero is Vice President of Research and Development for PepsiCo Foods Latin America Region (Mexico, Central America, Caribbean and South America), and coordinates the Health and Wellness Strategy for Latin America Region. Native of Mexico City, she graduated from Universidad Iberoamericana in Nutrition and Food Science and specialized in Food Technology, MBA eq. from IPADE, Mexico. Other Business training includes North Western University, Columbia University, Wharton School of Business and MIT. Since 1976, she has lead very diverse positions related to Science, Research and Development, Nutrition, Marketing and General Management. Some of her contributions: in Mexico Secretary of Health, Quaker Oats-La Azteca Chocolate Company; New Products/Technology Confectionery Consulting firm in Canada, Hershey Foods Mexico, Corn Products Inc./CPC International. During her 23 years in several Divisions of PepsiCo. She has championed the creation of the renowned PepsiCo Vive Saludable Health and Wellness Program and is a champion of Performance with Purpose, echoing PepsiCo's CEO Indra Nooyi philosophy for Doing Better while Doing Better.

ROOK, Graham

Professor of Medical Microbiology, University College London



Prof. Graham A. W. Rook, BA MB BChir MD FIBiol, studied basic natural sciences at the University of Cambridge, UK, before qualifying in clinical medicine in the University of London. Since 1994 Prof. Rook has held the post of professor of Medical Microbiology at University College London. Graham's research yielded more than 290 peer-reviewed publications and more than 80 other reviews and book chapters. The theme of his research was initially the immunopathology of tuberculosis. His approach is interdisciplinary, with emphasis on integrative physiology resulting in publications on endocrinology, immunology, microbiology and neuroscience. Currently G.R.'s dominant interest is Darwinian Medicine, thus trying to understand why the lifestyle of rich, developed countries leads to rapid increases in the incidences of allergies, autoimmune disease and inflammatory bowel disease. In rich, developed countries reduced exposure to environmental microorganisms that were a part of human evolutionary history is contributing to faulty regulation of the immune system, thus increasing the risk of these and other chronic inflammatory disorders. This has led to clinical trials and publications in the field of allergic disorders which sought to identify treatments that can help developing countries avoid the same disease patterns as their economies developed. He co-founded a biotech company, 'Silence Therapeutics plc.', and is co-inventor of more than 20 patents.



SAUER, Francois
CEO, Trans Am Group

Education: MD with honors, University of Mexico, UNAM; MBA, IPADE, Harvard Business School program in Mexico City; and MS Systems Analysis, Spanish-American University, Mexico City. Author of "Relearn, Evolve and Adapt". He wrote an essay titled, "To Integrate Creative Imagination With Socially Conditioned Thought and Behavior". He holds several positions: CEO of Trans Am Group, TAG, where he promotes import and export between Mexico, Canada and the United States. Prior to this, he was the CEO of BCEC, a business incubator and before that the CEO of Cerner International, which produces IT products applied in health industry in its different branches in Australia, Singapore, Malaysia, Saudi Arabia, and Europe. At Transquest, Inc., he developed an expansion strategy for the AT&T joint venture with Delta Airlines. Preceding that, he worked at AT&T's Global Information Solution (old NCR) and DEC. He is the Co founder and developer of Global Health Network/Supercourse Pittsburgh, PA. Faculty member of the William Glasser Institute. Board member at Baker University. Board member of the International Relations Council Former. Board member at American Red Cross of Kansas. City Member of System Dynamics Society, MIT Cambridge, MA. Founding member of National Athenaeum of Arts, Letters, Sciences and Technology in Mexico. Published more than 20 articles in peer-reviewed journals including: British Medical Journal, Lancet, Military Medicine & Nature Medicine.



SCHROTTER, Jean-Christophe
R&D Manager, VEOLIA-Membrane House

Dr. Jean Christophe SCHROTTER is a recognized water and membrane expert with 17 years of experience in membrane processes. Previously lecturer in the Chemical Engineering Department at the University of Bath (UK), he is currently Membrane R&D Director at the Water Research Centre of Veolia Company (France), where he is responsible for the development of innovative membrane processes for drinking, waste, industrial water and desalination applications. He has been involved in many national and international research and development projects and has also acted as a technical advisor for companies, as well as public institutions. He is currently treasurer of the European Membrane Society, member of the EMS, IWA, NAMS, leader of the WssTP "Membrane Technology for Water Treatment" taskforce, and the author of 6 patents and more than 100 publications and presentations related to membrane technology and applications.

SERAGELDIN, Ismail

Director, Bibliotheca Alexandrina



Ismail Serageldin, Director, Library of Alexandria, also chairs the Boards of Directors for each of the BA's affiliated research institutes and museums and is Distinguished Professor at Wageningen University in the Netherlands. He serves as Chair and Member of a number of advisory committees for academic, research, scientific and international institutions and civil society efforts which includes the Institut d'Egypte (Egyptian Academy of Science), TWAS (Third World Academy of Sciences), the Indian National Academy of Agricultural Sciences and the European Academy of Sciences and Arts. He is former Chairman of the Consultative Group on International Agricultural Research (CGIAR, 1994-2000), the Founder and former Chairman of the Global Water Partnership (GWP, 1996-2000) and the Consultative Group to Assist the Poorest (CGAP), a microfinance program (1995-2000). Serageldin has also served at the World Bank, as Vice President for Environmentally and Socially Sustainable Development (1992-1998), and for Special Programs (1998-2000). He has published over 50 books and monographs and over 200 papers on a variety of topics including biotechnology, rural development, sustainability, and the value of science to society. He holds a Bachelor of Science degree in engineering from Cairo University, a Masters degree and a PhD from Harvard University. In addition he also received 26 honorary doctorates.

SHOTKOSKI, Frank

Director, Agricultural Biotechnology Support Project (ABSP) II, College of Agriculture and Life Sciences, Cornell University



Frank Shotkoski, Ph.D., is the Director of the Agricultural Biotechnology Support Project II (ABSPII) at Cornell University. ABSPII is a USAID funded project with a mandate to commercialize genetically engineered crops in Africa and Asia. Before joining Cornell University, Frank was the Technical Manager at Global Cotton Traits with Syngenta where he built a cotton biotechnology program that resulted in the development of Vip3-based insect resistant cotton. Frank Shotkoski earned his Ph.D. in Molecular Entomology from the University of Minnesota in 1992 and Master of Science and Bachelor of Science from the University of Nebraska in 1988 and 1984, respectively. He is the author of many referred publications and numerous abstracts and several book chapters. His experience in product development and commercialization of agriculture biotechnology products stems from over 20 years of academic and industrial work in both medical and agricultural biotechnology.

**SHUBNIKOV, Eugene**

Research Scientist, Institute of Internal Medicine, Novosibirsk

Eugene Shubnikov is a research scientist at the Laboratory of Clinical, Population and Prevention Studies of Therapeutically and Endocrine diseases, Institute of Internal Medicine, Novosibirsk, Russia since 1986. He graduated from Novosibirsk Medical University, Novosibirsk, MD-1985. Since 1992 he has been member of the European Association for the study of Diabetes and Chair of section "Diabetes", 10th Circumpolar International Congress, 1996. He was a fellow of Professor LaPorte under Freedom Support Act Fellowship at University of Pittsburgh, Graduate School of Public Health, Department of Epidemiology in 2000. He held several posts: guest expert of online course on E-Development for the Country Gateways of the Europe and Central Asia Region, World Bank Institute and Development Gateway, 2003; co-director of NATO Advanced Research Workshop on scientific networking and the global health supercourse for the prevention of threat from manmade and natural disasters, Lithuania, 2005; teacher of Domestic Violence in Kazakhstan and Central Asia, "Building the Bridges Between Organizations in Central Asia", FSU and the US Workshop Kazakhstan, 2005; moderator of internet prevention program for Former Soviet Union countries in the frame of Supercourse Global Library Project in Public Health, Epidemiology and Internet from 2000; developer of the Global Free Library of Lectures at Internet-Supercourse project from 2002.; the Consultant of the BA Science Supercourse from 2008.

**SINGER, Peter**

Sun Life Financial Chair in Bioethics & Director, University of Toronto Joint Centre for Bioethics

Peter A. Singer is Professor of Medicine, Sun Life Financial Chair in Bioethics and Director at the McLaughlin - Rotman Centre for Global Health, University Health Network and University of Toronto. Singer's research is on life sciences and the developing world—how technologies make the transition from "lab to village". In 2007, Singer received the Michael Smith Prize as Canada's Health Research of the Year in Population Health and Health Services. He is the Foreign Secretary of the Canadian Academy of Health Sciences, and a Fellow of the Royal Society of Canada, the US Institute of Medicine of the National Academies, and TWAS (The Academy of Sciences for the Developing World). He has published over 270 research articles, received over \$50 million in research grants, and trained over 70 students. Singer is a member of the Scientific Advisory Board of the Bill & Melinda Gates Foundation Grand Challenges for Global Health Initiative. He is also an advisor in the UN Secretary General's Office, the Government of Canada; several African governments, and Pepsico Inc. on issues related to global health. He studied internal medicine at University of Toronto, medical ethics at University of Chicago, public health at Yale University, and management at Harvard Business School. He is a former chairman of Branksome Hall School.

SOLIMAN, Salah

Professor of Pesticide Chemistry & Toxicology, Faculty of Agriculture, Alexandria University



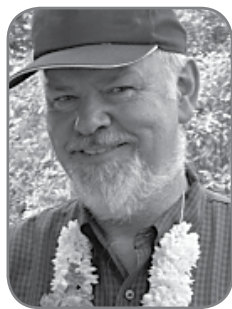
Salah Ahmed Soliman, Professor of Pesticide Chemistry and Toxicology, Faculty of Agriculture, Alexandria University (1986–present). Visiting Scientist, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, USA (1979–1982). Visiting Professor, University of Texas Medical Branch, (UTMB), Galveston, Texas, USA (1987–1988). Visiting Professor, King Saud University, Saudi Arabia (1988–1994). Member, Final Review Boards (FRBs), International Program on Chemical Safety (IPCS), World Health Organization (WHO) since 1992. Member, Joint Meeting on Pesticide Residues, WHO/FAO JMPR, since 1999. Vice-Chairman, Steering Group on Risk Assessment (IPCS/SGRA, WHO), 1999–present. He published more than 70 scientific papers in areas of neurotoxicity, pesticides and heavy metals monitoring and mode of actions in international journals. He constructed a number of Research Laboratories at the Department of Pesticide Chemistry and Toxicology, Alexandria University through research projects funded by USEPA and other US and UN organizations. Member in: US Society of Toxicology; Society of Environmental Chemistry and Toxicology; Weed Science Society of America; and Egyptian Society of Toxicology. He was awarded the National Award on Agricultural Sciences, 1980, and offered the First Level Medallion of Science and Art by Decree of the President of Egypt, 1981.

TIMMERMANN, Barbara

Distinguished Professor and Chair, Department of Medicinal Chemistry, School of Pharmacy, University of Kansas



Barbara Timmermann is a University Distinguished Professor and Chair of the Department of Medicinal Chemistry at the University of Kansas following an academic career of almost 25 years at the University of Arizona. She is also the current Director of the Center for Cancer Experimental Therapeutics. Professor Timmermann obtained a B.S. at the National University of Cordoba, Argentina in 1970, a M.S. in 1977, and a Ph.D. in 1980 at the University of Texas, Austin. In 1981, she joined the Faculty at the University of Arizona, ascended the professorial ranks and established a research program in drug lead discovery from plant biodiversity. With NIH funding, she established the Arizona Center for Phytomedicine research for the study of botanical medicines and the Latin American International Cooperative Biodiversity Groups (ICBG) Program. Her research focuses on the discovery and biological investigation of natural products with potential utility in the treatment of cancer, infectious and inflammatory diseases. Research funds have been provided by the National Institutes of Health, the National Science Foundation, the US Department of Agriculture, US Agency for International Development, the Tinker Foundation and the John D. and Catherine T. MacArthur Foundation. She is the author of more than 160 publications in peer-reviewed scientific literature, numerous research reviews and book chapters. She serves on the Editorial Board of the Journal of Natural Products.

**UPHOFF, Norman**

Program Leader for Sustainable Rice Systems, Cornell International Institute for Food, Agriculture and Development (CIIFAD)

Norman Uphoff, Professor of Government and International Agriculture at Cornell University, USA, served as Director of the Cornell International Institute for Food, Agriculture and Development from 1990 to 2005. Uphoff joined the Cornell University faculty in 1970 after receiving a PhD from the University of California, Berkeley in political science. For most of the next 20 years, he was chair-man of the Rural Development Committee, with research and advising focused on local institutions and participatory development, with special interest in irrigation and natural resource management. His favorite book from this period is 'Learning From Gal Oya: Possibilities For Participatory Development And Post-Newtonian Social Science', (Cornell University Press, 1992; paperback, Intermediate Technology Publications, 1996). While director of CIIFAD, Uphoff became more engaged with issues of sustainable development and agroecology. His career was reoriented after learning about the System of Rice Intensification developed in Madagascar. His main publication in recent years is an edited volume, 'Biological Approaches To Sustainable Soil Systems', (CRC Press, 2006), for which he was chief editor with 102 contributors from 28 countries (foreword by Dr. M.S. Swaminathan). Uphoff has served as a Consultant for the World Bank, FAO, USAID and other organizations over four decades.

**VAN MONTAGU, Marc**

Elected and Acting president, the European Federation of Technology

Emeritus Prof. Marc Baron Van Montagu, President of the European Federation of Biotechnology (EFB), is a pioneer in plant molecular biology. With his colleague, Jeff Schell, he discovered the mechanism of DNA transfer from *Agrobacterium tumefaciens* to plants, and constructed the first chimerical plant genes. Van Montagu used this new technology to study gene regulation and to discover the molecular basis of several plant physiological processes. He has made major contributions to the identification of genes involved in plant growth, development and flowering. He ranks among the 10 most cited scientists in the fields of Plant & Animal Science (ISI classification). His laboratory raised two spin-offs: Plant Genetic Systems (PGS), and CropDesign. At PGS, he drove front-line innovations for biotech agriculture, such as plants resistant to insects or tolerant to more environmentally friendly herbicides. In 2000 he created the Institute of Plant Biotechnology for Developing Countries (IPBO) at Ghent University. Its mission is training, technology transfer and plant biotechnology research oriented towards the needs of less-developed countries. He is also President of the Public Research and Regulation Initiative (PRRI). He has received numerous awards, among others the Japan Prize. In 1990, due to his scientific accomplishments, he received the title of Baron, he is member of several academies of science, agriculture and engineering and holds numerous Doctor Honoris Causa degrees.

VIENKEN, Jorg

Vice-President, BioSciences-Fresenius



Joerg Vienken hold a degree in Chemical Engineering from the Technical University of Darmstadt and a Doctoral Degree in Biophysics and Engineering from the Technical University of Aachen (RWTH), both in Germany. After working as an Associate Professor at the Institute for Biotechnology at Würzburg University, he is now working in the medical device industry for more than 25 years with focus on medical device technology, biomaterials and artificial organs. Until moving to his recent position as Vice President “BioSciences” at Fresenius Medical Care in Bad Homburg, he was Head of the Department of Scientific Services at Akzo Nobel Membrana, Wuppertal, both in Germany. Jörg Vienken has authored/co-authored more than 250 publications and 5 books with subject to biological and artificial membranes, biomaterials, biocompatibility and nephrology issues, as well as on Artificial Organs. He is member of the Editorial Board of several scientific journals dedicated to Biomaterials, Artificial Organs and Medical Device Technology. Prof. Jörg Vienken currently serves as President of the International Federation for Artificial Organs (IFAO). He also serves as an honorary lecturer at the Technical Universities of Aachen and Ilmenau, at the private European University for Applied Sciences “EFF” in Idstein (all in Germany), at the Danube University in Krems, Austria, and as a Professor at the International Faculty of Artificial Organs (INFA). He is Member of the Academic Leibniz-Sozietät in Berlin, Germany.

VON GABAIN, Alexander

Professor, Max F. Perutz Laboratories, University of Vienna



Alexander von Gabain Strategic Advisor to the Management and Supervisory Boards of Intercell AG, Alexander von Gabain obtained his Ph.D. in Genetics at the University of Heidelberg and held a post-doctorate position at the Stanford University. In the 1980s and 1990s he was a Professor at the University of Umeå and the Karolinska Institute, Sweden, as well as an Advisor to Pharmaceutical and Biotech companies. From 1992 to 1998 he was Chair of Microbiology at the University of Vienna at the Campus Vienna Biocenter, Austria. In 1998 he co-founded Intercell AG and led the company as CEO until it was successfully floated on the Vienna Stock Exchange in 2005. From 2005 to 2009 he was Member of the Executive Management Board and CSO of the Company. His research interests are in the fields of microbial gene expression, host-parasite interactions, and immunology. He has published more than 100 publications and book chapters and currently holds numerous patents. He holds a professorship of Microbiology at the Max Perutz Laboratories, Vienna, and a foreign adjunct professorship at the Karolinska Institute, Stockholm. He is member of several professional organizations and serves on the boards of Biotech enterprises, including TVM Capital, Munich. His achievements have been acknowledged by prestigious industrial awards and academic prizes and honourable memberships. In September 2008, he was appointed in the Governing Board of the European Institute of Technology (EIT).

**WAGNER, Tobias**

Research Associate, Technische Universität München

Degree: Diploma-Ing. Univ. (TUM). Profile: Energy efficient building and planning, Environmental planning, Sustainable energy supply since 2008. Research associate, in Energy Utilisation Planning, Department of Building Climatology and Building Services, Technische Universität München 2006-2008. University studies: Environmental Planning and Engineering Ecology, Science Center Weihenstephan 1999-2006; - Architecture, Technische Universität München Founder. He is a Member of ClimaDesign e.V. –a non-profit Association for the Promotion of energetically optimized Planning and Building.

**WARWICK, Kevin**

Professor of Cybernetics, University of Reading

Kevin Warwick is Professor of Cybernetics at the University of Reading, England, where he carries out research in artificial intelligence, robotics and cyborgs. Kevin was born in Coventry and left school to join British Telecom, at the age of 16. At 22 he took his first degree at Aston University, followed by a PhD at Imperial College, London. As well as publishing over 500 research papers, Kevin's experiments in implant technology promoted his featuring on the cover stories of US magazines. Kevin was awarded DScs by the Imperial College and the Czech Academy of Sciences and received Honorary Doctorates from Aston University and Coventry University. He received The Future of Health Technology Award in MIT, and also the Mountbatten Medal. In 2000 Kevin presented the Royal Institution Christmas Lectures. Kevin's most recent research involves the invention of an intelligent deep brain stimulator to counteract the effects of Parkinson Disease tremors. Another project involves the use of cultured neural networks to drive robots around. Kevin, though, is renowned for his pioneering experiment which involves a neurosurgical implantation into the median nerve of his left arm to link his nervous system directly with a computer.

WEXLER, Philip

Technology Information Specialist, National Library of Medicine



Philip Wexler, a graduate of Rutgers University (MLS), has had an extensive career at the US National Library of Medicine (NLM) Toxicology and Environmental Health Information Program. He is Editor-in-Chief of Elsevier's Information Resources in Toxicology (4th ed, 2009) and the Encyclopedia of Toxicology (2nd ed, 2005). He is currently working on a book titled, Chemicals, Environment, Health: A Global Management Perspective. He has published numerous articles, and is currently preparing "Toxicology: An Evolving Informatics Framework", a major review article for Critical Reviews in Toxicology. He served as Chair of the US Society of Toxicology (SOT), World Wide Web Advisory Committee, and is currently the President of SOT's Ethical, Legal, and Social Issues specialty section. Philip is the recipient of the 2010 SOT Public Communications Award. He is vice-president of the Toxicology Education Foundation. At NLM, he has been instrumental in developing and enhancing the TOXNET system, and serves as file manager for the LactMed, IRIS and ITER databases. He also spearheaded the development of the World Library of Toxicology, Chemical Safety, and Environmental Health. He oversees the Tox-Learn Educational Tutorial Project, covering the basic principles of toxicology for general audiences. He has made numerous presentations on toxicology informatics and conducted continuing education courses at meetings throughout the world.

WORTHINGTON, Barry

Executive Director, United States Energy Association



Barry K. Worthington serves as the Executive Director of the United States Energy Association (USEA) where he directs the Association's domestic and international activities. He has served in this post since September, 1988. Previously, he served as a Vice President of the Thomas Alva Edison Foundation and prior to that with Houston Lighting & Power Company, now known as Center Point. Worthington has also written extensively on energy and environmental matters, and addresses many conferences on national and international energy issues.

**YANG, Huanming**

Director, Beijing Genomics Institute, Chinese Academy of Sciences and Director, Huada Genomics Research Center

Dr. Yang received his Ph.D. from University of Copenhagen, Denmark, in 1988. As the co-founders of BGI, he and his collaborators have made a significant contribution to the HGP and HapMap projects, as well as to sequencing and analysing genomes of rice, chicken, silkworm, giant panda, cucumber, and many microorganisms. BGI and collaborators published the first Asian genome, human pan-genome, human ancient genome, and recently human gut metagenoms. Dr. Yang has received many awards and honors, including Research Leader of the Year by Scientific American in 2002 and Award in Biology by the Third World Academy of Sciences (TWAS) in 2006. He was elected as a foreign member of EMBO in 2006, and an Academician of Chinese Academy of Sciences in 2007, and a fellow of TWAS in 2008.

**ZERHOUNI, Elias**

Former Director, National Institutes of Health and Senior Fellow, Bill and Melinda Gates Foundation

Dr. Zerhouni has spent much of his career providing clinical, scientific, and administrative leadership. Dr. Zerhouni was the 15th Director of the US National Institutes of Health, the largest Biomedical Research and Development Agency in the world with more than 27,000 employees and a yearly budget of \$29.5 billion. He led a series of reforms at the NIH that led to the successful passage of the NIH reform Act of 2006 by the US Congress. Prior to joining the NIH, Dr. Zerhouni served as Vice Dean for Research and then Executive Vice-Dean of the Johns Hopkins University School of Medicine and chair of the Russell H. Morgan Department of Radiology and Radiological Science from 1995 to 2002. His research focused on developing novel quantitative imaging methods for Computerized Axial Tomography (CAT scanning) and Magnetic Resonance Imaging (MRI) used for diagnosing cancer, cardiovascular and pulmonary disease. He is the author of 212 publications. He also holds several patents and founded or co-founded 5 start up companies. Dr. Zerhouni has been elected by the board of the Lasker Foundation, Research America, the Mayo Clinic, the King Abdullah University of Science and Technology and serves as chair of the Maryland Economic Development Commission. He is the Science and Technology Adviser for Sanofi-Aventis a global pharmaceutical company and Chief Scientific Advisor of Science-Translational Medicine a sister publication of the Journal Science. Dr. Zerhouni was elected by the Institute of Medicine of the US National Academy of Sciences in 2000.

Partners, Sponsors and Exhibitors





ELSEVIER



McLaughlin-Rotman Centre
FOR GLOBAL HEALTH



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC

Bio Vision Alexandria 2010

Partners

BioVision - The World Life Sciences Forum

Science and technology are meaningless unless they serve society. During the last ten years BioVision, the World Life Sciences Forum, has brought together scientists, industries, policymakers and NGO leaders from all over the world in an endeavour to improve the harmonious integration of progress in life sciences and biotechnology into contemporary society. BioVision is a three-day international forum, taking place every two years in Lyon, France. It aims to explain life science discoveries and discuss their societal and ethical implications with all stakeholders: scientists, industrialists, national and international policymakers and civil societies; engage key international leaders to share insights and confront their views on “global issues” related to health, nutrition and the environment: European commissioners, CEOs, directors of UN agencies and NGOs; build tomorrow’s life science community with young scientists through its BioVision.Nxt Fellows’ Programme; and foster discussion and collaboration between the four communities involved by offering networking opportunities during the Forum and beyond, through the Internet. Around 13 ministers, 33 Nobel Prize laureates, 9 European commissioners, 47 CEOs or directors of large multinational groups, 18 executive directors of international organizations (WHO, FAO, UNOP, etc), 24 NGO leaders (WWF, Médecins Sans Frontières, etc) and internationally recognized scientists have already participated in BioVision debates.

Join them at the next edition of BioVision on 27-29 March 2011 in Lyon, France. More information on BioVision can be found on www.biovision.org.

Qatar Foundation

Qatar Foundation for Education, Science and Community Development is a private, chartered non-profit organization, founded in 1995 by His Highness Sheikh Hamad Bin Khalifa Al-Thani, Emir of Qatar.

Guided by the principle that a nation’s greatest resource is the potential of its people, Qatar Foundation aims to develop that potential through a network of centers devoted to progressive education, research and community welfare.

The Academy of Sciences for the Developing World (TWAS)

TWAS, the Academy of Sciences for the Developing World, is an autonomous international organization, founded in Trieste, Italy in 1983 by a distinguished group of scientists from the South under the leadership of the late Nobel laureate Abdus Salam of Pakistan. With a membership comprised of more than 900 eminent scientists (more than 80 percent of whom are from developing countries), TWAS represents the best of science in the developing world. Its principal aim is to promote scientific capacity and excellence for sustainable development in the South. Since 1986, TWAS has supported scientific research in 100 developing countries through a variety of research, training and exchange programs. More than 2,000 eminent scientists worldwide, including TWAS members, peer review proposals free-of-charge for research grants, fellowships and awards that are submitted to the Academy by scientists and institutions in developing countries. For additional information, see www.twas.org.

The International Development Research Center (IDRC)

IDRC is a Canadian Crown corporation that works in close collaboration with researchers from the developing world in their search for the means to build healthier, more equitable, and more prosperous societies.

.....

Egyptian Academy of Scientific Research and Technology (ASRT)

According to the latest restructuring of the science and technology system in Egypt and in conformity with the mission of the counterpart international academies, ASRT is considered as a national think tank acting as a house of expertise that provides scientific advice to serve the Egyptian community. The mission of ASRT is to conduct studies in the fields of advanced and interdisciplinary sciences, basic and applied research, and future and strategic planning. ASRT has to value the excellence in science and its applications through the development and the implementation of the fellowship programs, honors, grants and prizes to prominent scientists and researchers. Implementation of scientific agreements between the academy and the counterpart organizations and societies and exchanging the scientific research is one of the main roles of ASRT, which pays great attention to the dissemination of the culture of science and technology to encourage innovation and inventions, in collaboration with the civil society and the relevant authorities concerned with science and scientific research and culture, as a key factor towards knowledge-based economy. ASRT implements the above mentioned through 15 specialized scientific councils, five regional development centers, virtual research consortia and networks, a TV channel, a monthly scientific magazine for the public, national committees, scientific societies, a patent office, a regional office for ethics and a national network for information (ENSTINET). More information about ASRT is available at www.asrt.sci.eg.

.....

The Science and Technology in Society (STS) Forum

The Science and Technology in Society (STS) Forum, established by Koji Omi in November 2004, holds its annual meeting in October of every year, in Kyoto, Japan. The meeting aims at creating a global human network based on trust to discuss, on an equal footing, how to deal with science and technology from the standpoint of the future of humankind. Discussion on “The Lights and Shadows of Science and Technology” seeks ways to ensure further progress of science and technology while keeping inherent risks under proper control. The Sixth Annual Meeting of the Science and Technology in Society (STS) forum was held in Kyoto on 4-6 October, 2009. Over 800 participants, from 85 countries, regions and international organizations, attended the program. The next annual meeting of the STS forum will be held during 3-5 October 2010 in Kyoto, Japan.

.....

Science Supercourse

The Bibliotheca Alexandrina and the WHO Collaborating Centre, Pittsburgh, launched the Science Supercourse Project in January 2009. The Science Supercourse intends to build an internet archive of PowerPoint lectures in four main scientific disciplines, namely: medicine (public health), agriculture, engineering and environment. These lectures are collected through a crawling system designed by the BA-ICT Department. The Science Supercourse primary goal is to provide the most updated source that is accessible online for free and continuously quality-improved to assist educators and scholars from developing countries to ameliorate their performance. Therefore, the Science Supercourse DVD containing more than 3,600 lectures is to be distributed worldwide. It is a “gift that is meant to be given”. The DVDs are widely distributed and have reached more than 6,000 people.

**Official Airline
EGYPTAIR**

EGYPTAIR is the world-renowned national airline of Egypt, based in the cosmopolitan city of Cairo. During more than 76 years, EGYPTAIR has experienced extraordinary growth, taken the lead to be the first airline in the Middle East and Africa and the seventh in the world to join IATA and become a name worthy of trust. Throughout its 76 years of service and as a result of continuous investments, EGYPTAIR has successfully extended its network over the years to reach more than 1,624 weekly departures to 69 cities in 44 countries, carrying more than 7.2 million passengers in 2008/2009, with an increase of 20% compared to the same period last year. Currently, EGYPTAIR has one of the most modern fleets, with an average age of eight years, consisting of 51 aircraft, and aiming to reach 75 aircrafts in 2013. In 2004, EGYPTAIR demonstrated the scale of its commitment to the highest standards of safety by being the first IOSA certified airline in the Middle East and Africa. In July 2008, EGYPTAIR became a member in Star Alliance, the biggest and the most prestigious alliance in the world, to offer to its customers more than 975 destinations around the globe through the Star Alliance network.

.....

**Official Hotel
Radisson Hotel**

Located in the exciting new development area of Alex West, the brand new Radisson BLU Hotel, Alexandria, promises to be the most sought after hotel in the city. It is a minutes-drive from all locations, i.e. 10 minutes from Borg El Arab Airport, 35 minutes from El Nozha Airport, 40 minutes from the main train station in Alexandria, 25 minutes from Alexandria City Center shopping mall, 35-40 minutes from Alexandria's tempting historical sites. The hotel offers 262 luxurious rooms, out of which 39 are Business Class rooms, 21 Junior Suites, and one extremely luxurious Royal Suite. The standard room area is 55 m², with a 21 m² terrace overlooking the marvelous lake. There are also 6 fabulous outlets offering varieties of food to match all tastes. Moreover, the extensive meeting rooms can accommodate up to 400 persons moreover, in addition to many more entertainment options.



STAR ALLIANCE 

Speed up the Counter

Because you deserve it, from now on fly with EGYPTAIR and get up to 50 % more miles. Join us for free on www.egyptairplus.com and get an instant free 1000 miles.



Synergy



A world of **rewards**
egyptairplus.com

**Don't say goodbye
to the things you love**



Full flat beds in business class



Personal screens in economy class



World class in-flight services



Synergy

The new Boeing 777-300ER aircraft has arrived

Be prepared to experience EGYPTAIR's newest aircraft when traveling between Cairo and London Heathrow and enjoy the utmost levels of comfort, entertainment and exclusivity.

Because we know that you can't be away from the things you love, we made sure you'll never have to say goodbye to them again when you travel. Now you will enjoy a quiet sleep on our new full flat beds in Business class. In all classes, you will stay entertained throughout the flight with hundreds of channels to choose from on your personal screen. In addition, we brought the flavors of the world to you with our new world class catering.

With EGYPTAIR's new travel experience, you will never have to say goodbye to the things you love...we brought them along for you.



EGYPTAIR

A STAR ALLIANCE MEMBER 



EGYPTAIR now invites all first and business class customers, as well as Star Alliance Gold members to its new exquisite lounge in Terminal 3. The new lounge offers free Wi-Fi connection, satellite TV channels, numerous PC stations and soothing beverages and snacks. In addition, all Star Alliance Gold members are free to invite a guest to accompany them in the lounge at any time.

With EGYPTAIR's new elegant lounge, be prepared to experience the ultimate in airport relaxation.



EGYPTAIR

A STAR ALLIANCE MEMBER 

Radisson Blu Hotel, Alexandria

Book Now . . .

Experience the best accommodation in the most spacious guest rooms in town.

Let your event be a successful one at our extensive meeting rooms which can accommodate up to 400 persons.

Enjoy the variety of food to match all tastes at our luxurious outlets.

Free high speed internet access available to all in-house guest & meeting attendees.



Radisson BLU Hotel, Alexandria

Address : Alex West, Mehwar El Tameer , Northern Coast Road 21st Km
Alexandria , Egypt. P.O. Box 32 El Ameria, Alexandria.

Tel : +2 03 5896000 (16 Lines)

Fax : +2 03 5896017

www.radissonblu.com/hotel-alexandria

Radisson **BLU**

HOTELS THAT LOVE TO SAY YES!







Discover Research in Germany

www.research-in-germany.de



Find out about

-  Research institutions
-  Latest research findings
-  Funding opportunities
-  Practical hints for your research stay

... and much more.



AN INITIATIVE OF THE

Federal Ministry
of Education
and Research

Research in
Germany



Land of Ideas

Planting biotech seeds. Harvesting **HOPE.**



Biotech seeds increase crop yields and decrease the need for certain pesticides. But what's less well known is what that means to farmers' lives – and their communities – in developing and newly industrialized countries.

A recent study showed biotech corn can increase farmer profits in the Philippines by as much as 48 percent.* Farmer Rosalie Ellasus speaks from experience. "I've increased my corn yield, from 3.2 metric tons per hectare with traditional seeds to 7.8 metric tons with

biotech corn seeds," she says, "... and I now send my children to quality schools."

Clive James, who authored the report, says biotech corn provides the developing world "safer and more affordable food and feed ... alleviating the hunger and malnutrition that claim 24,000 lives a day in Asia, Africa and Latin America."

Producing more. Conserving more. Improving farmers' lives. That's sustainable agriculture. And that's what Monsanto is all about.

**700 million
world farmers live
on \$1.25 per day.
Improving that
improves lives.**

Learn more at: www.ProduceMoreConserveMore.com

MONSANTO
imagine®



PRODUCING MORE

CONSERVING MORE

IMPROVING FARMERS' LIVES



FINE SEEDS INTERNATIONAL S.A.E

فاين سيدز إنترناشيونال ش.م.م

Fine Seeds... For better Agriculture in Egypt

فاين سيدز ... لزراعة افضل في مصر

10 Abul Lethamayn Square - Agouza - Giza - Egypt. - Tel.: 33477625 - 33050089 - Fax: 33044406

١٠ ميدان أبو اللثامين - العجوزة - الجيزة - تليفون: ٣٣٠٥٠٠٨٩ - ٣٣٤٧٧٦٢٥ فاكس: ٣٣٠٤٤٤٠٦

**Towards Sustainable Development
of S&T in Egypt**



A Programme of the Ministry of Higher Education
and Scientific Research funded by the European Union

برنامج تابع لوزارة التعليم العالي والبحث العلمي ممول من الاتحاد الأوروبي



EU - Egypt Innovation Fund (EEIF)

Supporting Innovation ... Promoting Entrepreneurship



Research, Development & Innovation Network (RDIN)

Building Bridges between Researchers



Policies for Monitoring & Evaluating R&D Projects, Programmes & Institutions (M&E)

Towards Sustainable Development of S&T in Egypt



A Programme of the Ministry of Higher Education
and Scientific Research funded by The European Union
برنامج تابع لوزارة التعليم العالي و البحث العلمى ممول من الإتحاد الأوروبى



DESIGN ©PRINT



Harty Tours

Lufthansa City Center

24, Ismailia Str., - Roushdy
Alexandria - Egypt
Phone +203 546 0740
Fax +203 544 3113
www.hartyincentives.net
info@hartytoursegypt.com

BOOK YOUR..

AIRLINE



HOTEL



CAR

WORLD
WIDE



ONLINE!

www.hartytoursegypt.com

Your Professional Meeting Planner & Travel Partner

Innovation for Sustainability

Human

Cultured
Technology

100001
0101000110001
10000000100001

Daedalus has been offering frontline applicable research for two decades, in the fields of

- Informatics
- Renewable Energy Technology
- Coastal Engineering

Technological innovation is focused in providing 21st century level solutions, foremost maintaining a high degree of proven sustainability and usability

DAEDALUS INFORMATICS

22 Ikarias Str., Glyfada
Athens, Greece

Tel.: +30 210 9643355

Fax: +30 210 9627444

Email: daedalus@daedalus.gr

URL: www.daedalus.gr



ELSEVIER



Since 1580 Elsevier has published content for the higher education and research community, making it available via platforms such as ScienceDirect, known globally for its reliability and innovative approach to science.

Elsevier offers a journal collection of over 2,500 current titles consisting of more than 10 million articles, including a historical archive (backfiles) of 4 million articles prior to 1995 directly to your desktop, back to Volume 1, Issue 1.

In addition we offer quality online Reference Works, Book Series, Handbooks, eBooks which enable fast and efficient access to the latest materials available for teaching and research purposes and Scopus, our navigational tool covering the world's largest collection of abstracts, references and indexes of STM literature.

These services significantly contribute to the research-productivity of the scientists and enrich their collections, whilst saving space and time searching for suitable content. Elsevier provides you with the necessary tools allowing you to teach students at the highest possible level, making the institute an attractive place to study, whilst steadily moving up the University World Rankings!

Visit us at: www.elsevier.com

&™ FlexPen® TRUSTED BY MILLIONS 6,7

&™ 40% LESS WEIGHT GAIN⁵

&™ LOW RISK OF HYPOS^{3,4}

&™ ONCE-DAILY DOSING^{1,3}

&™ OPTIMAL HbA1c CONTROL^{1,2}

Levemir. More proven benefits than any other basal insulin

No other basal insulin is more effective.^{1,2} Initiate with Levemir, from the world leader in diabetes care.

changing diabetes®

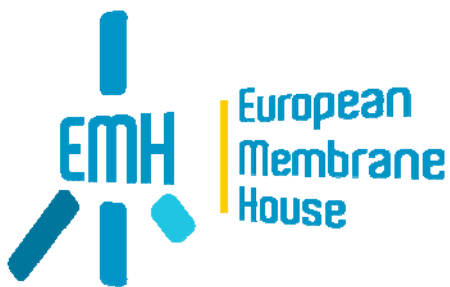
At Novo Nordisk, we are changing diabetes. In our approach to developing treatments, it is our commitment to operate profitably and ethically and in our search for a cure. We know we are not simply treating diabetes, we are helping our people live better. That understanding is behind every decision of action we take, and fuels our passion to change the treatment, perception and future of diabetes for good.

Levemir is a long-acting insulin analog (LAI) indicated for the treatment of type 2 diabetes. It is a human insulin derivative with a prolonged action profile, ensuring baseline glycaemic control. Levemir is a long-acting insulin analog (LAI) indicated for the treatment of type 2 diabetes. It is a human insulin derivative with a prolonged action profile, ensuring baseline glycaemic control. Levemir is a long-acting insulin analog (LAI) indicated for the treatment of type 2 diabetes. It is a human insulin derivative with a prolonged action profile, ensuring baseline glycaemic control.

Levemir is a long-acting insulin analog (LAI) indicated for the treatment of type 2 diabetes. It is a human insulin derivative with a prolonged action profile, ensuring baseline glycaemic control. Levemir is a long-acting insulin analog (LAI) indicated for the treatment of type 2 diabetes. It is a human insulin derivative with a prolonged action profile, ensuring baseline glycaemic control.



Levemir® (insulin detemir)



**EMH: The one-stop place for
membrane expertise and
partnerships**

The European Membrane House is a not-for-profit international association set up in 2008 by universities and research institutes in 10 European countries. The European Membrane Society is also an EMH founding member.

EMH, what for?

- to enhance industrial implementation of membrane-based technologies.
- to help develop a coherent and structured European system for membrane research and technological innovation.

This we achieve thanks to:

- Research and industry partnerships
- Institutional Lobbying

EMH Clusters

Links with industry are developed by EMH clusters, chaired by 1 academic and 1 industrialist.

EMH **Energy** Cluster – **Food** Cluster – **Health** Cluster – **Water** Cluster

For more information, please visit: <http://www.euromemhouse.com>

Exhibitors Guide



Science Supercourse

West Exhibition Plan

Booth # 2

The Bibliotheca Alexandrina and the WHO Collaborating Centre, Pittsburgh, launched the Science Supercourse Project in January 2009. The Science Supercourse intends to build an internet archive of PowerPoint lectures in four main scientific disciplines, namely: medicine (public health), agriculture, engineering and environment. These lectures are collected through a crawling system designed by the BA-ICT Department. The Science Supercourse primary goal is to provide the most updated source that is accessible online for free and continuously quality-improved to assist educators and scholars from developing countries to ameliorate their performance. Therefore, the Science Supercourse DVD containing more than 3,600 lectures is to be distributed worldwide. It is a "gift that is meant to be given". The DVDs are widely distributed and have reached more than 6,000 people.



World Health Organization

www.who.int

West Exhibition Plan

Booth # 13

The World Health Organization (WHO) is the directing and coordinating authority for health within the United Nations system. It was established on 7 April 1948. WHO's objective, as set out in its Constitution, is the attainment by all peoples of the highest possible level of health. Health is defined in WHO's Constitution as a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity. The Bibliotheca Alexandrina is a Depository Library for WHO publications.



Food and Agriculture Organization

www.fao.org

West Exhibition Plan

Booth # 12

The United Nations Food and Agriculture Organization (FAO) was established in 1945 to lead international efforts to defeat hunger. Serving both developed and developing countries, FAO acts as a neutral forum where all nations meet as equals to negotiate agreements and debate policy. FAO is also a source of knowledge and information. FAO assists developing countries and countries in transition to modernize and improve agriculture, forestry and fisheries practices and ensure good nutrition for all. The Bibliotheca Alexandrina is a Depository Library for FAO publications.



United Nations Environment Programme

www.unep.org

West Exhibition Plan

Booth # 11

The United Nations Environment Programme (UNEP) is the voice for the environment within the United Nations system. It was established in 1972 after UN Conference on the Human Environment. UNEP's mission is to provide leadership and encourage partnership in caring for the environment by inspiring, informing, and enabling nations and peoples to improve their quality of life without compromising that of future generations. The Bibliotheca Alexandrina is a Depository Library for UNEP publications.



Springer

www.springer.com

Middle Hall Outside Plan

Booth # 1

Springer is one of the leading international scientific publishing companies, publishing over 1,900 journals and more than 4,000 new books, both in print and online. Its publications cover a wide range of subjects including biomedicine and life sciences, clinical medicine, physics, engineering, mathematics, computer sciences, human sciences, social sciences and economics. Visit springer.com to find out more!



KaSha

Middle Hall Outside Plan

Booth # 5

KaSha is an international joint venture committed to providing world-class distribution services of books, periodicals, English language teaching and multimedia publications, in a cost-effective and timely manner, to customers in the Middle East, North Africa, Turkey and the Islamic Republic of Iran. In order to achieve this, KaSha partners with international publishers, such as S. Karger AG, Focus Medica, Ausmed, John Wiley & Sons, Pearson Education, Cengage Learning and Express Publishing in addition to holding an extensive stock range of the latest publications in its modern distribution facility in Jordan.



Novo Nordisk

Middle Hall Outside Plan

Booth # 8

Novo Nordisk is a healthcare company and the world leader in diabetes care. The Company has the broadest diabetes product portfolio in the industry, including the most advanced products within the area, of insulin delivery systems. In addition, Novo Nordisk has a leading position within areas such as homeostasis management, growth hormone therapy and hormone replacement therapy. Novo Nordisk manufactures and markets pharmaceutical products and services that make a significant difference to patients, the medical profession and society. Novo Nordisk's vision is to defeat diabetes by better methods of diabetes prevention, detection and treatment and to work actively to promote collaboration between all parties in the healthcare system in order to achieve common goals. With headquarters in Denmark, Novo Nordisk employees more than 29,000 employees in 81 countries, and markets its products in 179 countries.



Fine Seeds International

West Exhibition Plan

Booth # 14

Fine Seeds International SAE (FSI) is a private shareholders company established under Egyptian law in 1995. The company is active in breeding, multiplying, processing and selling corn to Egyptian agriculture. It also produces wheat and rice varieties. The Company exports high quality hybrid Brassica seeds to Europe and imports herbicides. Along with Monsanto, the Company had been developing, since the year 2000, hybrid corn endowed with Bt to resist insects. FSI has 55 full-time employees and is an active member of the Egyptian Seed Industry Association (ESIA). Currently, the Chairman of FSI is also the Chairman of ESIA.



MONSANTO

Monsanto

West Exhibition Plan

Booth # 17

Monsanto is an agricultural company with 17,000 employees worldwide. When farmers succeed, we succeed. Through the tools of modern biology, we support our commitment to agriculture and to the farmers that feed, clothe and fuel our growing world. We produce leading seed brands in large-acre crops such as corn, cotton and oilseeds (soybeans and canola), as well as small-acre crops such as vegetables. We also produce leading in-the-seed trait technologies to farmers who aim at protecting their yield, supporting their on-farm efficiency and reducing their on-farm costs. We are constantly seeking ways to maximize the potential of seed, both its yield potential and the technology used to protect it, so farmers can obtain more out of each seed. Today, farmers use our innovative seed-based products to help them protect their crops and produce healthier foods and better animal feed. As a company, we are committed to broadly licensing our seed and trait technologies to other companies throughout the world. This approach ensures that farmers can access our products in the varieties that are the most appropriate to their farm. In addition to our seeds and traits business, we also manufacture the world's best-selling herbicide, Roundup®, and other herbicides used by farmers, consumers and lawn-and-garden professionals. Our business is structured in two segments: Seeds and Genomics, and Agricultural Productivity. The Seeds and Genomics segment consists of the Company's global seeds and traits business, and genetic technology platforms, including biotechnology, breeding and genomics. The Agricultural Productivity segment consists primarily of crop protection products, residential lawn-and-garden herbicide products, and the Company's dairy business.



Bibliotheca Alexandrina Library Sector Resources

www.bibalex.org

Main Entrance Booth # 1

The Bibliotheca Alexandrina Library Sector is a public-research library; established to revive the Ancient Library of Alexandria and to ensure an international center of excellence in Alexandria. It offers services to its users through the Main Library and its specialized libraries: the Taha Hussein Library, the Children's Library, the Young People's Library, the Arts & Multimedia Library and the Nobel Section, with the objectives to improve awareness, knowledge and dialogue between cultures and attain standards of excellence in scientific research.



The Bibliotheca Alexandrina Bookshop

www.bibalex.org

Main Entrance Booth # 2

Our Bookshop contains a rich variety of books and gifts that reflect the wonders of our civilization and the uniqueness of our national heritage. It offers a perfect reminder of the great history of the Ancient Library, as well as the fascinating building of the Bibliotheca Alexandrina and what it comprises.



Bibliotheca Alexandrina YESBU and LYM Programs

www.bibalex.org/yesbu

West Exhibition Plan Booth # 4

YESBU (Youth for Environmental Sustainability and Better Understanding) is a special program operated by and directed to young students (13-18 years old) and LYM (League for Young Masters) is directed to young people (19-25 years old). These programs aim to increase environmental awareness about local and global problems and promote preventative environmental management concepts among youth. They also seek to encourage scientific thinking and engage youth in activities and programs related to the environment. They aim to develop scientific research, constructive crisis team work and personal and social skills of youth. They encourage youth to exchange ideas and knowledge with their peers by engaging them in dialogue and team work, and promoting learning and knowledge activities by self-learning and distant learning methods.



ELSEVIER

www.elsevier.com

**West Exhibition Plan
Booth # 1**

As the world's leading publisher of science and health information, Elsevier serves more than 30 million scientists, students, and health and information professionals worldwide. Elsevier is proud to play an essential role in the global science and health communities and to contribute to the advancement of these critical fields. By delivering world-class information and innovative tools to researchers, students, educators and practitioners worldwide, we help them increase their productivity and effectiveness. Elsevier's operations are organized in two divisions: Science & Technology and Health Sciences. Our products and services include electronic and printed versions of journals, monographs, textbooks and reference works and cover health, life, physical and social sciences.



**National Research Center (NRC)
Biotechnology & Genetic Engineering Unit (BGEU)**

**Middle Hall Outside Plan
Booth # 4**

BGEU is located within the NRC. BGEU is Co-operating with researchers and the private sectors for production of any bio-products. Arranging highly specialized training courses for operating the unit high tech instruments. Optimizing the product specifications, which change in the fermentation process. Available for researchers of any authority to use in their projects.



The Academy of Sciences for the Developing World (TWAS)

**West Exhibition Plan
Booth # 10**

TWAS, the Academy of Sciences for the Developing World, is an autonomous international organization, founded in Trieste, Italy in 1983 by a distinguished group of scientists from the South under the leadership of the late Nobel laureate Abdus Salam of Pakistan. With a membership comprised of more than 900 eminent scientists (more than 80 percent of whom are from developing countries), TWAS represents the best of science in the developing world. Its principal aim is to promote scientific capacity and excellence for sustainable development in the South. Since 1986, TWAS has supported scientific research in 100 developing countries through a variety of research, training and exchange programs. More than 2,000 eminent scientists worldwide, including TWAS members, peer review proposals free-of-charge for research grants, fellowships and awards that are submitted to the Academy by scientists and institutions in developing countries. For additional information, see www.twas.org.

DAAD

The German Academic Exchange Service (DAAD)

West Exhibition Plan

Booth # 16

DAAD is one of the world's largest and most respected intermediary organizations in its field. Scores of students, teachers, researchers and scientists, supported by DAAD, have been able to gain valuable experience abroad. The 200 and more programs with which DAAD pursues these objectives range from short-term exchanges for research or teaching purposes to doctoral scholarships lasting several years for graduates from developing countries, from information visits by delegations of foreign university vice-chancellors to the long-term regional programs initiated to establish efficient higher education systems in the Third World.



Research, Development and Innovation (RDI) Programme

West Exhibition Plan

Booth # 5

Funded by the European Commission with a grant of €11 million over a period of three years and managed by the Ministry of Higher Education and Scientific Research, the Research, Development and Innovation (RDI) Programme succeeded in strengthening the link between the research and development sector and the industry through financing 51 cross-cutting projects to date. The RDI Programme established a wide network within the public and private universities and research institutes aiming to embark on fruitful scientific cooperation with the European partners. The RDI Programme has also been implementing various initiatives to promote the culture of science and innovation. The above activities aim to achieve the RDI Programme overarching objective of contributing to the enhancement of Egypt's economic growth and international competitiveness through improving its research, development and innovation performance. For further information about the RDI Programme, please visit our website: www.rdi.eg.net

