

**BioVisionAlexandria
2012**



***New Life Sciences:
Linking Science to Society***
22-25 April 2012

Conference Booklet

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BioVisionAlexandria 2012
22–25 April
Bibliotheca Alexandrina

Conference Booklet

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Alexandria, 22 April 2012

Dear Participant,

Two years have passed since our last BVA, two very exciting and eventful years. Egypt and many other Arab countries have entered a new era where societies rise up demanding their right to a life free of poverty, hunger and inequality in all its forms.

Here, Science in general, and New Life Sciences in particular have much to say. As the study of life and of technology that deals with living creatures with their complex biological systems, fascinating details and endless potential, New Life Sciences can play a tremendous role in ensuring public welfare. This role can be particularly effectual when scientific research is coupled with wise policies and decision-making.

In the 6th edition of BVA, we would like to tackle some fundamental questions: What can New Life Sciences offer to society? How should both scientific advances and policy-making be tailored to equally fit the needs of the rich and the poor; the young and the elderly; the healthy and the sick; the powerful and the marginalized. The program will feature a kaleidoscope of sessions revolving around the latest scientific breakthroughs in science, policy, bioethics, business and the hot issues pertaining to the fields of health, food and agriculture, and environment.

So, welcome to Alexandria, welcome to the Bibliotheca Alexandrina and welcome to BVA 2012. I hope that like its ancient namesake, the BA will serve as a place for communication, dialogue, science and intellect, and that the Conference will be an enlightening experience for all. I wish you a memorable stay in Alexandria.

Ismail Serageldin



Librarian of Alexandria
Director of the Bibliotheca Alexandrina

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Provisional Program


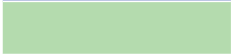


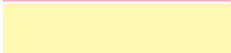
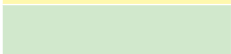
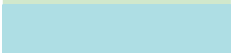


BVA 2012 Program at a Glance

Subject to Change

Sunday, 22 April 2012 Day 1	12:00	<i>Registration (During all days of the conference)</i>	
	17:00-19:00	Conference Opening Session	
Monday, 23 April 2012 Day 2 (Science Celebration Day)	08:30	<i>Registration (During all days of the conference)</i>	
	9:00-11:00	Nobel Session Science's Quest for a Better Future	
	11:00-12:00	Keynote Address	
	12:00-13:00	Lunch Break	
	13:00-15:00	Plenary Session 1 The Many Wonders of Science	
	15:00-15:30	Networking Break	
	15:30-17:00	Plenary Session 2 New Life Sciences: Understanding the Essentials of Life	Track 1 <i>Partners in Research – Partners in Transformation: How Can Life Sciences and International Cooperation in Research Support the Transformation Process in Egypt</i>
	17:00-17:30	Networking Break	
	17:30-19:00	Plenary Session 3 Access to Food: Access to Life	Track 2 <i>Fostering Science and Technology in the Middle East and Africa</i>

<p>Tuesday, 24 April 2012 Day 3</p>	08:30	<i>Registration (During all days of the conference)</i>			
	09:00-10:30	Plenary Session 4 Science and Policy Serving Society	Panel A-1: Global Issues on Healthcare (Health)	Panel B-1: MDG 1: A Roadmap to Agricultural Development (Food and Agriculture)	Panel C-1: Genomes, Metagenomes, and Microbiomes: New Life Sciences for a New Millennium (Environment)
	10:30-11:00	Networking Break			
	11:00-12:30	Roundtable: Science and Policy Serving Society	Panel A-2: Fighting Infections: Vaccines in Focus (Health)	Panel B-2: Towards Global Food Security: The 21 st Century Challenge (Food and Agriculture)	Panel C-2: Sustaining the Environment: Rights and Responsibilities (Environment)
	12:30-13:30	Lunch Break			
	13:30-15:00	Plenary Session 5 Biorobotics: Making the Best of Man and Machine I			Track 3: <i>The Mysteries of the Brain and the Secrets of Ageing</i>
	15:00-15:30	Networking Break			
	15:30-17:00	Plenary Session 6 Biorobotics: Making the Best of Man and Machine II			
	17:00-17:30	Networking Break			
	17:30-19:00	Evening Event: CEO Panel			Track 4 <i>Research Development and Innovation Programme - RDI</i>

Wednesday, 25 April 2012 Day 4	08:30	<i>Registration (During all days of the conference)</i>			
	09:00-10:30	Plenary Session 7 Biotech: Waging War on Hunger			Track 5: <i>Atlas Project</i>
	10:30-11:00	Networking Break			
	11:00-12:30	Panel A-3: Breakthroughs in Life Sciences: Making a Difference in Society (Health)	Panel B-3: World's Seed Banks: Future Threats and Challenges (Food and Agriculture)	Panel C-3: Education for Sustainable Development Beyond the Campus- EduCamp (Environment)	Track 6: <i>From Science to Business</i> Plenum 1: Fostering Innovation in Biotechnology
	12:30-13:30	Lunch Break			
	13:30-15:00	Plenary Session 8 Science Supercourse	Panel B-4: The Art of Manipulating Genes (Food and Agriculture)	Panel C-4: The Psychology of Climate Change (Environment)	Track 6: <i>From Science to Business</i> Plenum 2: Marketing Science
	15:00-15:30	Networking Break			
	15:30-17:00	Plenary Session 9 Urban and Rural Development: Sustainability for All			Track 6: <i>From Science to Business</i> Plenum 3: Humanizing Science: Beyond Mere Profit
	17:00-17:30	Networking Break			
	17:30-18:30	Plenary Session 10 Reporting Session			
	18:30-19:30	Plenary Session 11 Closing Session			

	Nobel Sessions
	Evening Events
	Plenary Sessions
	Roundtable
	Theme A: Health
	Theme B: Food and Agriculture
	Theme C: Enviroment
	Tracks
	Breaks

Detailed Program
(Subject to change)

Sunday, 22 April 2012	
12:00	<i>Registration (During all days of the conference)</i>
17:00-19:00 Day 1	<p>Conference Opening Session (Great Hall)</p> <p>Welcome Note: <i>Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</i></p> <p>Egyptian Government Representative: <i>TBC</i></p> <p>Didier Hoch, CEO, the World Life Sciences Forum, BioVision (France)</p> <p>Philippe Desmarescaux, Chairman, World Life Sciences Forum, BioVision (France)</p> <p>Koji Omi, Founder and Chairman, the Science and Technology in Society (STS) Forum (Japan)</p> <p>Romain Murenzi, Executive Director, the Academy of Sciences for the Developing World -TWAS (Italy)</p>
Monday, 23 April 2012 Science Celebration Day	
8:30	<i>Registration (During all days of the conference)</i>
9:00-11:00 Day 2	<p>Nobel Session: Science's Quest for a Better Future (Great Hall)</p> <p><u>Chair:</u> <i>Bruce Alberts, Former President, National Academy of Sciences and Editor-in-Chief, Science Magazine (USA)</i></p> <p><u>Rapporteur:</u> <i>Zoe Quan, Founder, Qingchu Thinking, LLC (USA)</i></p> <p>Richard Ernst, Chemistry 1991 (Switzerland)</p> <p>Harold Kroto, Chemistry 1996 (United Kingdom) - video message</p> <p>Jean-Marie Lehn, Chemistry 1987 (France)</p>
11:00-12:00	<p>Keynote Address (Great Hall)</p> <p><i>Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</i></p>
12:00-13:00	<i>Lunch Break</i>

<p>13:00-15:00 Day 2</p>	<p>Plenary Session 1: The Many Wonders of Science (Great Hall) <u>Chair:</u> Ismail Serageldin, <i>Director, Bibliotheca Alexandrina (Egypt)</i> <u>Rapporteur:</u> Zoe Quan, <i>Founder, Qingchu Thinking, LLC (USA)</i> Farouk El-Baz, <i>Director, Center for Remote Sensing, Boston University (USA)</i> Bruce Alberts, <i>Former President, National Academy of Sciences and Editor in Chief, Science Magazine (USA)</i> Mostafa El-Sayed, <i>Julius Brown Chair and Director, Laser Dynamics Laboratory, Georgia Tech (USA)</i></p>
<p>15:00-15:30</p>	<p><i>Networking Break</i></p>
<p>15:30-17:00 Day 2</p>	<p>Plenary Session 2: New Life Sciences: Understanding the Essentials of Life (Great Hall)</p> <p><i>The advances in New Life Sciences have profoundly improved our understanding of many essential issues; such as the origin of life, the nature of health and disease, and have greatly improved the quality of life. Yet there is still plenty to be discovered. The human genome is proving to be far more complex than expected, the factors involved are numerous and the genes-environment interactions are subtle yet potent. This makes molecular biology and genomics research all the more challenging and the findings more exciting and exhilarating.</i></p> <p><u>Chair:</u> Malak Kotb, <i>Professor, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati (USA)</i> <u>Rapporteur:</u> Zoe Quan, <i>Founder, Qingchu Thinking, LLC (USA)</i></p> <p>Gilbert Omenn, <i>Professor of Medicine, Genetics, and Public Health, University of Michigan (USA)</i> Huanming Yang, <i>Director, Beijing Genomics Institute, Chinese Academy of Sciences and Director, Huada Genomics Research Center (China)</i> Hannelore Daniel, <i>Full Professor, Molecular Nutrition Unit, Technische Universität München (Germany)</i></p>

<p>15:30-17:00 Day 2</p>	<p>Track 1: Partners in Research – Partners in Transformation: How Can Life Sciences and International Cooperation in Research Support the Transformation Process in Egypt (Lecture Hall)</p> <p>Co-organized with the German Academic Exchange Program – DAAD.</p> <p><i>After toppling its authoritarian government, Egypt is facing immense changes on the political and social levels. With the transformation process towards a democratic Egypt, challenges such as food shortages, healthcare and social injustice and climate change must be met. In the framework of the transformation partnership between Egypt and Germany, and as a continuation of the traditionally fruitful cooperation between the countries, four top researchers from Germany will discuss how life sciences and international cooperation in research can contribute to solving Egypt's most pressing issues.</i></p> <p>Mark Bücking, Spokesman, Fraunhofer Food Chain Management Alliance, Fraunhofer Institute for Molecular Biology and Applied Ecology IME-AE (Germany)</p> <p>Other Speakers: TBA</p>
<p>17:00-17:30</p>	<p><i>Networking Break</i></p>
<p>17:30-19:00 Day 2</p>	<p>Plenary Session 3: Access to Food - Access to Life (Great Hall)</p> <p><i>In a world where one billion people are going hungry, the burden is heavy on many governments and organizations to not only supply food but also to accurately assess and identify those who truly need it. To what extent does access to food reflect on food security? How can changes in food access be measured and what are the indicators? On what basis are food aids distributed? What are the social, economic and environmental challenges involved? What is the role of the policy-makers and what are the immediate actions needed to be taken?</i></p> <p><u>Chair:</u> Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p> <p><u>Rapporteur:</u> Zoe Quan, Founder, Qingchu Thinking, LLC (USA)</p> <p>Roelof Rabbinge, Professor, Wageningen University and Research Centre (The Netherlands)</p> <p>Kanayo Nwanze, President, International Fund of Agricultural Development - IFAD (Italy)</p> <p>Joachim von Braun, Director, Center for Development Research (ZEF Bonn), Department for Economics and Technical Change (Germany)</p> <p>Teunis van Rheenen, Senior Research Fellow, International Food Policy Research Institute - IFPRI (USA)</p>

<p>17:30-19:00 Day 2</p>	<p>Track 2: Fostering Science and Technology in the Middle East and Africa (Lecture Hall)</p> <p>Co-organized with Alliance for Peacebuilding (Professor Robert Berg).</p> <p><i>As countries in the Middle East consider their steps to renew and build their societies, the role of science and technology will likely receive even more attention than heretofore. The panel will not presume to recommend specific policies for any country in the Middle East, but it will give background that may help policy-makers become aware of policy options in addition to those being considered.</i></p> <p><u>Chair:</u> Robert Berg, Member of the Board, Alliance for Peacebuilding (USA)</p> <p>Robert Berg, Member of the Board, Alliance for Peacebuilding (USA)</p> <p>Ivo Slaus, President, World Academy of Art and Science (Croatia)</p> <p>Hebatallah Gamal, Senior Manager, International Partnerships Europe/Middle East/Africa, TechSoup Global Network (Poland)</p> <p>Susantha Goonatilake, President, Royal Asiatic Society (Sri Lanka)</p>
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Tuesday, 24 April 2012	
8:30	Registration (During all days of the conference)
9:00-10:30 Day 3	<p>Plenary Session 4: Science and Policy Serving Society (Great Hall)</p> <p><i>In many cases scientists and policy-makers do not see eye to eye, often to the disadvantage of the general public. Thereby, the dire need to proper science communication. This session will bring together renowned experts who will recount success stories of science providing tangible solutions for society, reason and unreason in science and ways to bring up new generations with a mentality grounded in science.</i></p> <p>Chair: Vivian Lowery Derryck, President, the Bridges Institute (USA)</p> <p>Rapporteur: Zoe Quan, Founder, Qingchu Thinking, LLC (USA)</p> <p>David McConnell, Professor of Genetics, Smurfit Institute of Genetics, Trinity College Dublin (Ireland)</p> <p>Brian Johnson, Director, DAH Associates and Chair, the BBSRC Synthetic Biology Group (UK)</p> <p>Sherif Kandil, Professor of Material Science, the Institute of Graduate Studies and Research (Egypt)</p> <p>Sir Peter Lachmann, Emeritus Professor of Immunology, University of Cambridge (UK)</p>
9:00-10:30 Day 3	<p>Panel A-1: Global Issues on Healthcare - Health (Lecture Hall)</p> <p><i>The right to proper healthcare is by no means a luxury, yet a right for each individual, rich and poor, old and young. Yet providing suitable healthcare is a challenge that faces decision-makers, especially in developing countries where numerous considerations especially economical ones have to be taken into consideration. What progress has been done so far and how could that be improved? Difference in access to proper healthcare is striking among different socioeconomic groups. What are the compromises that should be made and the difficult ethical issues that are raised?</i></p> <p>Chair: Farha Abd El-Aziz, Professor of Clinical Immunology and Pathology, Faculty of Medicine, Mansoura University (Egypt)</p> <p>Rapporteur: Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Alastair Kent, Director, Genetic Alliance UK (UK)</p> <p>Werner Christie, Former Norwegian Minister of Health (Norway)</p> <p>Rafael Rangel-Aldao, CEO, SummumNet Colombia, and Professor, Digital Molecular Medicine, Simon Bolivar University (Columbia)</p> <p>Amr Helmy, Former Minister of Health (Egypt)</p>

<p>9:00-10:30 Day 3</p>	<p>Panel B-1: MDG1: A Roadmap to Agricultural Development – Food and Agriculture (Small Theater)</p> <p><i>The Millennium Development Goals (MDGs) are eight international development goals which the world's leading development institutions have agreed to achieve by the year 2015. When it comes to MDG1 of ending poverty and hunger, which countries have achieved the most progress and will they meet the 2015 target? Which countries are struggling and why? How has agricultural development contributed? Africa is the most place in need of the outcomes of MDG1. What have developed countries done to help that. Is what they have done enough?</i></p> <p><u>Chair:</u> Roelof Rabbinge, Professor, Wageningen University and Research Centre (The Netherlands)</p> <p><u>Rapporteur:</u> Sami El-Rakshy, Assistant Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Adel El-Beltagy, President, Governing Board, International Centre for Advanced Mediterranean Agronomic Studies - CIHEAM (Egypt)</p> <p>Norman Uphoff, Professor, Cornell International Institute for Food, Agriculture and Development (USA)</p> <p>Prabhu Pingali, Deputy Director, Agricultural Development Program, Bill and Melinda Gates Foundation (USA)</p>
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<p>9:00-10:30 Day 3</p>	<p>Panel C-1: Genomes, Metagenomes, and Microbiomes: New Life Sciences for a New Millennium - Environment (Delegates Hall)</p> <p><i>The vast majority of living organisms cannot be seen by human eyes, and were thus out of the scope of life sciences till the invention of the microscope in the 18th century. With the advent of optical and electron microscopy, biology was widely expanded to include the study of microbes and viruses, respectively. Yet, thousands of species remained unknown or unstudied because biologists were unable to culture them in the laboratory. Perhaps the biggest advance since the invention of microscopy has been the implementation of molecular tools to detect uncultured organisms, which has lately evolved into metagenomics: the unbiased study of biological communities by direct sequencing of ecosystems. This session will demonstrate the different experimental and computational tools used for understanding nature by understanding genomic and metagenomics sequencing. The session will include specific examples from the Earth Microbiome Project, the Red Sea Metagenomic Survey, and different computational bioinformatics applications for understanding life on Earth.</i></p> <p>Co-organized with Cairo University (Professor Ramy Aziz).</p> <p><u>Chair:</u> Ramy Aziz, Assistant Professor, Department of Microbiology and Immunology, Faculty of Pharmacy, Cairo University (Egypt)</p> <p><u>Rapporteur:</u> Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Hamza El-Dorry, Chair, Department of Biology, the American University in Cairo (Egypt)</p> <p>Ramy Aziz, Assistant Professor, Department of Microbiology and Immunology, Faculty of Pharmacy, Cairo University (Egypt)</p> <p>Jack Gilbert, Senior Environmental Microbiologist, Argonne National Laboratory (USA)</p> <p>Bas Dutilh, Associate Faculty Member, Radboud University Nijmegen Medical Center (The Netherlands)</p>
<p>10:30-11:00</p>	<p><i>Networking Break</i></p>

<p>11:00-12:30 Day 3</p>	<p>Roundtable: Science and Policy Serving Society (Great Hall)</p> <p><i>In a dynamic roundtable setting, representatives from various sectors of society will discuss, debate and exchange their various perspectives pertaining to the most crucial issues of our time; how policies can improve scientific development, the importance of accurately communicating science to the public, and the ethical implications of science.</i></p> <p><u>Chair:</u> Ehsan Masood, Editor, Research Fortnight and Research Europe (UK)</p> <p><u>Rapporteur:</u> Zoe Quan, Founder, Qingchu Thinking, LLC (USA)</p> <p>Abdallah Daar, Chief Scientist, Grand Challenges Canada; Professor of Public Health Sciences, University of Toronto (Canada)</p> <p>Katia Chalita, President, ÁKBAR Produções Artísticas (Brazil)</p> <p>Maged El Sherbiny, President, Academy of Scientific Research and Technology (Egypt)</p> <p>Naser Faruqui, Director, Science and Innovation, International Development Research Center (Canada)</p> <p>Mohamed Hassan, Co-chair, IAP, the Global Network of Science Academies (Italy)</p>
<p>11:00-12:30 Day 3</p>	<p>Panel A-2: Fighting Infections - Vaccines in Focus - Health (Great Hall)</p> <p><i>Ever since Louis Pasteur discovered the first vaccine, the pattern of infectious diseases has changed dramatically. Numerous vaccine technologies are deployed; such as sub-unit vaccines, DNA vaccines, live attenuated vaccines and others. Success stories; such as eradicating small pox and polio vaccine, have feverishly encouraged vaccine research to find solutions for other diseases. What are the latest breakthroughs in vaccine technology, the triumphs and the challenges, and which diseases need the most attention in vaccine research?</i></p> <p><u>Chair:</u> TBC</p> <p><u>Rapporteur:</u> Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Philippe Kourilsky, Professor of Molecular Immunology, College de France (France)</p> <p>Stephen Jarrett, Former Principal Adviser, UNICEF Supply Division (USA)</p> <p>Alexander von Gabain, Co-founder, Intercell (Austria)</p> <p>Malak Kotb, Professor, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati (USA)</p>

11:00-12:30
Day 3

Panel B-2: Towards Global Food Security: The 21st Century Challenge - Food and Agriculture (Small Theater)

Co-organized with the Norman Borlaug Institute for Global Food Security (Professor Malcolm Elliott) and BioMed Central.

Norman Borlaug identified two key components of humankind's quest for global food security. The first is the task of producing sufficient quantities of the desired foods to satisfy our needs in environmentally and economically sustainable ways. The second task, equally or even more daunting, is to distribute food equitably. Poverty is the main impediment to equitable food distribution, which, in turn, is made more severe by rapid population growth. The world contains one billion hungry people whose daily intake of energy, protein, fat and other nutrients is below minimum requirements. In this session, we will explore the questions underpinning the 21st Century Challenge of expediting progress towards Global Food Security.

Chair: **Malcolm Elliott**, Founding Director, the Norman Borlaug Institute for Global Food Security (UK)

Rapporteur: **Sami El-Rakshy**, Assistant Professor, Faculty of Agriculture, Alexandria University (Egypt)

Nina Fedoroff, Evan Pugh Professor, Huck Institutes of the Life Sciences, Penn State University (USA)

Magdy Madkour, Professor, Faculty of Agriculture, Ain Shams University (Egypt)

Clive James, Chairman and Founder, ISAAA (Cayman Islands)

<p>11:00-12:30 Day 3</p>	<p>Panel C-2: Sustaining the Environment: Rights and Responsibilities - Environment (Delegates Hall)</p> <p><i>"Treat the earth well: it was not given to you by your parents, it was loaned to you by your children". The goal of sustainable development is to improve living standards and the quality of people's lives, both now and for future generations. We do not have the luxury anymore to irresponsibly use and consume without compromising the lives of future generations. How our actions and decisions impact the environment plays a pivotal role in the kind of heritage we will leave our children. Experts in environmental development and sustainability will present their views on how to best preserve life.</i></p> <p><u>Chair:</u> Salah Hassouna, Professor, Institute of Graduate Studies and Research (Egypt)</p> <p><u>Rapporteur:</u> Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Jeffrey McNeely, Senior Science Advisor, International Union for the Conservation of Nature, IUCN (Switzerland)</p> <p>Klaus Ammann, Editor, New Biotechnology, University of Bern (Switzerland)</p> <p>Hani El-Nokraschy, Vice Chairman, Supervisory Board, DESERTEC Foundation (Germany)</p> <p>Mahmoud Solh, Director General, International Center for Agricultural Research in Dry Areas - ICARDA (Syria)</p>
<p>12:30-13:30</p>	<p><i>Lunch Break</i></p>
<p>13:30-15:00 Day 3</p>	<p>Plenary Session 5: Biorobotics - Making the Best of Man and Machine I (Great Hall)</p> <p><i>Biorobotics is a unique technology that aspires to blend the sparkling and intricate properties of nature with machine. It, therefore, has a mind-boggling potential for various sectors in society, whether it is helping the disabled, gaining a better understanding of the human mind, or the human nervous system, studying and reproducing human behavior and cognition, or mimicking natural behaviors, in addition to the ethical implications associated with delving into questions on what life is.</i></p> <p><u>Chair:</u> Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p> <p><u>Rapporteur:</u> Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Ronald Arkin, Regents' Professor and Associate Dean, Research and Space Planning (USA)</p> <p>Yoshihiko Nakamura, Professor, Department of Mechano-Informatics, University of Tokyo (Japan)</p>

<p>13:30-15:00 Day 3</p>	<p>Track 3: The Mysteries of the Brain and the Secrets of Aging - Health (Lecture Hall)</p> <p><i>The human brain is a fascinating, perplexing organ with unsolved mysteries. What goes on in our brain? How does it control our behavior? What are the diseases that come to the forefront as the years go by? What happens to our brain as we age? How do diseases affecting the brain differ from developed to developing countries? What are the new approaches in diagnosis and treatment of brain diseases?</i></p> <p>Chair: Yehia Zaky, Head, Academic and Cultural Affairs Sector, Bibliotheca Alexandrina (Egypt)</p> <p>Rapporteur: Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Richard Frackowiak, Head, Clinical Neurosciences Department, CHU Université de Lausanne (Switzerland)</p> <p>José León-Carrión, Director, Human Neuropsychology Laboratory, Facultad de Psicología, University of Seville (Spain)</p> <p>Efstathios S. Gonos, Director, Research IUBMB, National Hellenic Research Foundation, Institute of Biological Research and Biotechnology (Greece)</p>
<p>15:00-15:30</p>	<p><i>Networking Break</i></p>
<p>15:30-17:00 Day 3</p>	<p>Plenary Session 6: Biorobotics - Making the Best of Man and Machine II (Great Hall)</p> <p><i>Biorobotics is a unique technology that aspires to blend the sparkling and intricate properties of nature with machine. It, therefore, has a mind-boggling potential for various sectors in society, whether it is helping the disabled, gaining a better understanding of the human mind, or the human nervous system, studying and reproducing human behavior and cognition, or mimicking natural behaviors, in addition to the ethical implications associated with delving into questions on what life is.</i></p> <p>Chair: Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p> <p>Rapporteur: Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Kevin Warwick, Professor of Cybernetics, School of Systems Engineering, University of Reading (UK) and Irena Warwick</p> <p>Nicolas Franceschini, Director, Neurocybernetics Research, Centre National de la Recherche Scientifique - CNRS (France)</p> <p>Biorobotics I & II Round Table</p>
<p>17:00-17:30</p>	<p><i>Networking Break</i></p>

<p>17:30-19:00 Day 3</p>	<p>Evening Event: CEO Panel (Great Hall) <i>Chair:</i> Ismail Serageldin, <i>Director, Bibliotheca Alexandrina (Egypt)</i> Jacques-François Martin, <i>President and CEO, Parteurop (France)</i> Christopher Hentschel, <i>Former President and CEO, the Swiss Foundation Medicines for Malaria Venture (Switzerland)</i> John Kilama, <i>Director, Kilama International Consulting Group (USA)</i> Christian Fassotte, <i>VP Medical Affairs, Intercontinental Region Sanofi (France)</i></p>
<p>17:30-19:00 Day 3</p>	<p>Track 4: Research Development and Innovation Programme - RDI (Delegates Hall) Co-organized with the Research Development and Innovation Programme - RDI and EU Year of Science. Abdelhamid El-Zoheiry, <i>Coordinator, Research, Development and Innovation Programme - RDI (Egypt)</i> Other Speakers: TBA</p>

Wednesday, 25 April 2012	
8:30	Registration (During all days of the conference)
9:00-10:30 Day 4	<p>Plenary Session 7: Biotech - Waging War on Hunger (Great Hall)</p> <p><i>In a world where population is increasing, the climate is changing and water quantities are failing, the predications for a bounteous and hunger-free future are bleak, Scientists in the fields of food, and agriculture and environment have been working hard to master strategies to increase food productions, such as "more crop per drop", enabling planting crops in dry areas, biofortifying crops, crops that can withstand various types of stress. Are these attempts enough? What other directions are they working on? What can be improved?</i></p> <p><u>Chair:</u> Magdy Madkour, Professor, Faculty of Agriculture, Ain Shams University (Egypt)</p> <p><u>Rapporteur:</u> Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Marc Van Montagu, President, European Federation of Biotechnology (Belgium)</p> <p>Ingo Potrykus, Professor Emeritus, Institute of Plant Sciences of the ETH Zurich (Switzerland)</p> <p>Nina Fedoroff, Evan Pugh Professor, Huck Institutes of the Life Sciences, Penn State University (USA)</p>
9:00-10:30 Day 4	<p>Track 5: Atlas Project (Lecture Hall)</p> <p>Co-organized with the Royal Society</p> <p>Other Speakers: TBA</p>
10:30-11:00	Networking Break
11:00-12:30 Day 4	<p>Panel A-3: Breakthroughs in Life Sciences: Making a Difference in Society - Health (Great Hall)</p> <p><i>Among the very promising potential of medical research and treatment are the different approaches to fighting cancer and hepatitis, the inspiring discoveries in drug delivery, nanotechnology, nano-oncology, tissue engineering, molecular diagnostics to name but a few.</i></p> <p><u>Chair:</u> TBC</p> <p><u>Rapporteur:</u> Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Mona Marei, Head, Tissue Engineering Laboratories, Faculty of Dentistry, Alexandria University (Egypt)</p> <p>Hassan Azzazy, Professor of Chemistry and Leader of Novel Diagnostics and Therapeutics, American University in Cairo - AUC (Egypt)</p> <p>Patrick Couvreur, Full Professor of Pharmacy, Paris-Sud (France)</p> <p>Moustapha Kassem, Director, Molecular Endocrinology Lab (KMEB), University Hospital of Odense (Denmark)</p>

<p>11:00-12:30 Day 4</p>	<p>Panel B-3: World's Seed Banks - Future Threats and Challenges - Food and Agriculture (Lecture Hall)</p> <p>Co-organized with World Academy Program on Climate Stability Governance (Professor Walter Truett Anderson).</p> <p><i>Few people know much about the world's network of seed banks—even the fact that it exists. Yet the number of people who may, one way or another, seek the aid of seed banks when they are threatened by natural or man-made disaster is incalculable. The world now has some 1,400 seed banks of many different kinds—huge institutions like England's Millennium Seed Bank Project, which aspires to collect samples of every plant in the world; specialized depositories like the widely-noted "Doomsday" seed bank, hidden away in frozen mountains in Norway, which serves as an emergency backup for the seed collections of many nations. Other centers, like the International Rice Research Institute in the Philippines, the Potato Center in Peru, and the Center for the Improvement of Maize and Wheat in Mexico, are the local headquarters for global networks of depositories/ research centers focused on specific groups of plants. Questions: how is this global system evolving? What are its strengths and vulnerabilities? What does its existence tell us about the kind of world we live in?</i></p> <p><u>Chair:</u> Walter Truett Anderson, Co-Chair, World Academy Program on Climate Stability Governance (USA)</p> <p><u>Rapporteur:</u> Sami El-Rakshy, Assistant Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Jeffrey McNeely, Senior Science Advisor, International Union for the Conservation of Nature, IUCN (Switzerland)</p> <p>Cary Fowler, Executive Director, Global Crop Diversity Trust (Italy)</p> <p>Mohamed Hassan, Co-chair, IAP, the Global Network of Science Academies (Italy)</p> <p>Norman Uphoff, Professor, Cornell International Institute for Food, Agriculture and Development (USA)</p>
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<p>11:00-12:30 Day 4</p>	<p>Panel C-3: Education for Sustainable Development Beyond the Campus-EduCamp - Environment (Small Theater)</p> <p>Co-organized with Education for Sustainable Development Beyond The Campus-EduCamp Project.</p> <p><i>Education for Sustainable Development Beyond the Campus-EduCamp is a three-year Tempus project that aims to promote Education for Sustainable Development (ESD) in the Egyptian society. The project is the first initiative in Egypt that brings universities and schools together in a structured mechanism. The specific objectives are establishing seven Centers of Excellence inside the Egyptian universities to offer ESD services, developing ESD teaching kits for basic education, developing innovative ESD teaching methodologies for school children, developing and implementing a training of trainers program for school teachers, and constructing a virtual environment for sharing knowledge on ESD. The project work plan consists of 9 work packages. Each of the first 5 packages aims to achieve one of the five objectives. The other 4 packages cover dissemination, sustainability, quality control and management.</i></p> <p>Other Speakers: TBA</p>
<p>11:00-12:30 Day 4</p>	<p>Track 6: From Science to Business</p> <p>Plenum 1: Fostering Innovation in Biotechnology (Delegates Hall)</p> <p>Co-organized with Global Tech Transfer Initiative - TTS Ltd (Mr. Christian Suojanen).</p> <p><i>A discussion of why financial investment into and political and social commitment to biotechnology innovation is important. The do's and don'ts of biotech innovation policy and bioregion development, best practices for fostering a culture of innovation and entrepreneurship, and the emergence of a viable biotech sector contributing to socio-economic development, employment and benefits to patients and society will be discussed.</i></p> <p><u>Chair:</u> Christian Suojanen, Director, Global Life Sciences, Valor Management, Co-Chairman, Tech Transfer Initiative - TTS Ltd (Switzerland)</p> <p>Christian Suojanen, Director, Global Life Sciences, Valor Management, Co-Chairman, Tech Transfer Initiative -TTS Ltd (Switzerland)</p> <p>Morris Berrie, Co-Chairman, TTS Ltd and Managing Director, Tech Investor Ltd (UK)</p> <p>Anatole Krattiger, Director, Global Challenges Division, World Intellectual Property Organization - WIPO (Switzerland)</p>

12:30-13:30	Lunch Break
13:30-15:00 Day 4	<p>Plenary Session 8: Science Supercourse (Small Theater)</p> <p><u>Chair:</u> Ronald La Porte, Professor of Epidemiology, Graduate School of Public Health, University of Pittsburgh (USA)</p> <p>Faina Linkov, Research Assistant Professor, University of Pittsburgh (USA)</p> <p>Francois Sauer, Founder and CEO, Trans Am Group (USA)</p> <p>Eugene Shubnikov, Research Scientist, Institute of Internal Medicine, Novosibirsk (Russia)</p> <p>Ronald La Porte, Professor of Epidemiology, Graduate School of Public Health, University of Pittsburgh (USA)</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>Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p>
13:30-15:00 Day 4	<p>Panel B-4: The Art of Manipulating Genes - Food and Agriculture (Lecture Hall)</p> <p><i>"Whoever could make two ears of corn, or two blades of grass grow upon a spot of ground where only one grew before would deserve better of Mankind, and do more essential service to his country, than the whole race of politicians put together."</i>—Gulliver's Travels. What are GMOs? Friend or foe? For some, it is the solution for many of society's most pressing issues; for others it is a catastrophe waiting to happen. So what are the impacts of GMOs on society so far, and the expected complications and benefits?</p> <p><u>Chair:</u> Ingo Potrykus, Professor Emeritus, Institute of Plant Sciences of the ETH Zurich (Switzerland)</p> <p><u>Rapporteur:</u> Sami El-Rakshy, Assistant Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p>Clive James, Chairman and Founder, ISAAA (Cayman Islands)</p> <p>Eric Huttner, General Manager, Diversity Arrays Technology (Australia)</p> <p>Constantin Canavas, Professor Dr.-Ing, Faculty Life Sciences, Hamburg University of Applied Sciences (Germany)</p> <p>Magdy Madkour, Professor, Faculty of Agriculture, Ain Shams University (Egypt)</p>

<p>13:30-15:00 Day 4</p>	<p>Panel C-4: The Psychology of Climate Change - Environment (Small Theater)</p> <p>Co-organized with World Academy Program on Climate Stability Governace (Prof. Walter Truett Anderson).</p> <p><i>It may turn out that the greatest threat to our planet is not greenhouse gases, but the human mind's remarkable capacity to refuse information it finds unpleasant. Denial has been an important concept in psychotherapy since Freud recognized it in his patients. We find it now in many realms of life: It arises in situations where an entire family may look away from sexual abuse. It hampers the efforts of addicts to break free of dependence on harmful substances and behaviors. It often blocks people from seeking care for serious—even potentially fatal—diseases. Today it is a central theme in the fiercely-polarized debate about climate change, slowing efforts to face what the overwhelming majority of scientists believe to be a looming environmental disaster.</i></p> <p><u>Chair:</u> Walter Truett Anderson, Co-Chair, World Academy Program on Climate Stability Governace (USA)</p> <p>Alberto Zucconi, President, Istituto dell'Approccio Centrato sulla Persona - IACP (Italy)</p> <p>Aftab Omer, President, Meridian University (USA)</p> <p>Karie Maria Norgaard, Associate Professor of Sociology and Environmental Studies, Whitman College (USA)</p> <p>Other Speakers: TBA</p>
<p>13:30-15:00 Day 4</p>	<p>Track 6: From Science to Business</p> <p>Plenum 2: Marketing Science (Delegates Hall)</p> <p><i>In this session a group of scientists from various institutions will discuss how to bring the scientific product from the lab to the market place, the challenges involved, the assessment of market needs and so forth.</i></p> <p><u>Chair:</u> Joao Paes de Carvalho, Principal, BiznessBrazil (Brazil)</p> <p>Mona Bakr, General Director, NanoTech Egypt (Egypt)</p> <p>Daniel Pagliano, Director, Institute of Applied Biosciences (Uruguay)</p> <p>Martina Newell-McGloughlin, Director, UC Systemwide Biotechnology Research and Education Program, University of California (USA)</p> <p>Tarek Khalil, President and Provost, Nile University (Egypt)</p>
<p>15:00-15:30</p>	<p><i>Networking Break</i></p>

<p>15:30-17:00 Day 4</p>	<p>Plenary Session 9: Urban and Rural Development: Sustainability for All (Great Hall)</p> <p><i>People are gravitating more and more towards the glamour and opportunities of city-life. For how long will cities be able to keep up with the heavy flow of immigrants? What is happening to the often neglected left-behind countryside? What can the environmental life sciences do to foster development for both? An in-depth analysis will be placed on clean water issues, urban design, projects related to the Nile Delta and agricultural development.</i></p> <p><u>Chair:</u> Farouk El-Baz, Director, Center for Remote Sensing, Boston University (USA)</p> <p><u>Rapporteur:</u> Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</p> <p>Margaret Catley-Carlson, Chair, BOT, Crop Diversity Trust (Canada)</p> <p>Mahmoud Abou-Zeid, President, Arab Water Council and Former Minister of Water Resources and Irrigation (Egypt)</p> <p>Helmy Abouleish, Managing Director, SEKEM (Egypt)</p> <p>Mohamed Abdrabo, Professor of Economics, Institute of Graduate Studies and Research (Egypt)</p>
<p>15:30-17:00 Day 4</p>	<p>Track 6: From Science to Business</p> <p>Plenum 3: Humanizing Science - Beyond Mere Profit (Delegates Hall)</p> <p><i>Business for the sake of human well-fare; is it wishful thinking or are there ways to achieve both profit for entrepreneurs and benefits for mankind equally?</i></p> <p><u>Chair:</u> Morris Berrie, Co-Chairman, TTS Ltd and Managing Director, Tech Investor Ltd (UK)</p> <p>Claudio Carlone, Advisor, Italian Agency for Technology and Innovation (Italy)</p> <p>Joao Paes de Carvalho, Principal, BiznessBrazil (Brazil)</p> <p>Biljana Papazov, Dr. phil. nat., University of Bern (Germany)</p>
<p>17:00-17:30</p>	<p><i>Networking Break</i></p>

<p>17:30-18:30 Day 4</p>	<p>Plenary Session 10: Reporting Session (Great Hall) Plenary Sessions and Health Stream: <i>Rafik Nakhla, Vice President, Human Resources and Administration, Projacs International (Bahrain)</i> Food and Agriculture Stream: <i>Sami El-Rakshy, Assistant Professor, Faculty of Agriculture, Alexandria University (Egypt)</i> Environment Stream: <i>Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)</i></p>
<p>18:30-19:30 Day 4</p>	<p>Plenary Session 11: Closing Session (Great Hall) Wole Soyinka, Literature, 1986 (USA) Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)</p>

List of Speakers



Nobel Laureates

Ernst, Richard

Chemistry 1991 (Switzerland)
Nobel Session

Kroto, Sir Harold

Chemistry 1996 (United Kingdom)
Nobel Session

Lean, Jean-Marie

Chemistry 1987 (France)
Nobel Session

Soyinka, Wole

Literature 1986 (USA)
Closing Session

Speakers

A

Abd El-Aziz, Farha

Professor of Clinical Immunology and Pathology, Faculty of Medicine, Mansoura University (Egypt)
Panel A-1

Abdrabo, Mohamed

Professor of Economics, Institute of Graduate Studies and Research (Egypt)
Plenary Session 9

Abouleish, Helmy

Managing Director, SEKEM (Egypt)
Plenary Session 9

Abou-Zeid, Mahmoud

President, Arab Water Council and Former Minister of Water Resources and Irrigation (Egypt)

Plenary Session 9

Adly, Noha

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

Plenary Session 8

Alberts, Bruce

Former President, National Academy of Sciences and Editor in Chief, Science Magazine (USA)

Nobel Session, Plenary Session 1

Ammann, Klaus

Editor, New Biotechnology, University of Bern (Switzerland)

Panel C-2

Anderson, Walter Truett

Co-Chair, World Academy Program on Climate Stability Governace (USA)

Panel B-3, Panel C-4

Arkin, Ronald

Regents' Professor and Associate Dean for Research and Space Planning (USA)

Plenary Session 5

Aziz, Ramy

Assistant Professor, Department of Microbiology and Immunology, Faculty of Pharmacy, Cairo University (Egypt)

Panel C-1

Azzazy, Hassan

Professor of Chemistry, Leader of Novel Diagnostics and Therapeutics, the American University in Cairo - AUC (Egypt)

Panel A-3

B

Bakr, Mona

General Director, Nano Tech Egypt (Egypt)

Track 6 plenum 2

Berg, Robert

Member of the Board, Alliance for Peacebuilding (USA)

Track 2

Berrie, Morris

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

Track 6 Plenum 1, Track 6 Plenum 3

Bücking, Mark

Spokesman, Fraunhofer Food Chain Management Alliance, Fraunhofer Institute for Molecular Biology and Applied Ecology IME-AE (Germany)

Track 1

C

Canavas, Constantin

Prof. Dr.-Ing, Faculty Life Sciences, Hamburg University of Applied Sciences (Germany)

Panel B-4

Carlone, Claudio

Advisor, Italian Agency for Technology and Innovation (Italy)

Track 6 Plenum 3

Catley-Carlson, Margaret

Chair, BOT Crop Diversity Trust (Canada)

Plenary Session 9

Chalita, Katia

President, ÁKBAR Produções Artísticas (Brazil)

Roundtable

Christie, Werner

Former Norwegian Minister of Health (Norway)

Panel A-1

Couvreur, Patrick

Full Professor of Pharmacy, Paris-Sud University (France)

Panel A-3

D

Daar, Abdallah

Chief Scientist, Grand Challenges Canada; Professor of Public Health Sciences, University of Toronto (Canada)

Roundtable

Daniel, Hannelore

Full Professor, Molecular Nutrition Unit, Technische Universität München (Germany)

Plenary Session 2

Desmarescaux, Philippe

Chairman, the World Life Sciences Forum, BioVision (France)

Opening Session

Dutilh, Bas

Associate Faculty Member, Radboud University Nijmegen Medical Center (The Netherlands)

Panel C-1

E

El-Dorry, Hamza

Chair, Department of Biology, the American University in Cairo (Egypt)

Panel C-1

El Sherbiny, Maged

President, Academy of Scientific Research and Technology (Egypt)

Roundtable, Track 5 Plenum 1

El-Baz, Farouk

Director, Center for Remote Sensing, Boston University (USA)

Plenary Session 1, Plenary Session 9

El-Beltagy, Adel

President, Governing Board, International Centre for Advanced Mediterranean Agronomic Studies - CIHEAM (Egypt)

Panel B-1

El-Sayed, Mostafa

Julius Brown Chair and Director, Laser Dynamics Laboratory, Georgia Tech (USA)

Plenary Session 1

El-Rakshy, Sami

Assistant Professor, Faculty of Agriculture, Alexandria University (Egypt)

Rapporteur

Elliott, Malcolm

Founding Director, the Norman Borlaug Institute for Global Food Security (UK)

Panel B-2

El-Nokraschy, Hani

Vice Chairman, Supervisory Board, DESERTEC Foundation (Germany)

Panel C-2

El-Zoheiry, Abdelhamid

Coordinator, Research, Development and Innovation Program - RDI (Egypt)

Track 4

F

Faruqui, Naser

Director, Science and Innovation, International Development Research Centre (Canada)

Roundtable

Fassotte, Christian

VP, Medical Affairs, Intercontinental Region Sanofi (France)

CEO Panel

Fedoroff, Nina

Evan Pugh Professor, Huck Institutes of the Life Sciences, Penn State University (USA)

Panel B-2, Plenary Session 7

Frackowiak, Richard

Head, Clinical Neurosciences Department, CHU Université de Lausanne (Switzerland)

Track 3

Franceschini, Nicolas

Director, Neurocybernetics Research, Centre National de la Recherche Scientifique - CNRS (France)

Plenary Session 6

Fowler, Cary

Executive Director, Global Crop Diversity Trust (Italy)

Panel B-3

G

Gamal, Hebatallah

Senior Manager, International Partnerships Europe/Middle East/Africa, TechSoup Global Network (Poland)

Track 2

Gilbert, Jack

Senior Environmental Microbiologist, Argonne National Laboratory (USA)

Panel C-1

Goonatilake, Susantha

President, Royal Asiatic Society (Sri Lanka)

Track 2

Gonos, Efsthios

Director, Research IUBMB, National Hellenic Research Foundation, Institute of Biological Research and Biotechnology (Greece)

Track 3

H

Hassan, Mohamed

Co-chair, IAP, the Global Network of Science Academies (Italy)

Roundtable

Hassouna, Salah

Professor, Institute of Graduate Studies and Research (Egypt)

Panel C-2

Helmy, Amr

Former Minister of Health (Egypt)

Panel A-1

Hentschel, Christopher

Former President and CEO, the Swiss Foundation Medicines for Malaria Venture (Switzerland)

CEO Panel

Hoch, Didier

CEO, the World Life Sciences Forum, BioVision (France)

Opening Session

Huttner, Eric

General Manager, Diversity Arrays Technology (Australia)

Panel B-4

J

James, Clive

Chairman and Founder, ISAAA (Cayman Islands)

Panel B-2, Panel B-4

Jarrett, Stephen

Former, Principal Adviser, UNICEF Supply Division (USA)

Panel A-2

Johnson, Brian

Director, DAH Associates and Chair, the BBSRC Synthetic Biology Group (UK)

Plenary Session 4

K

Kandil, Sherif

Professor of Material Science, the Institute of Graduate Studies and Research (Egypt)

Plenary Session 4

Kassem, Moustapha

Director, Molecular Endocrinology Lab (KMEB), University Hospital of Odense (Denmark)

Panel A-3

Kent, Alastair

Director, Genetic Alliance UK (UK)

Panel A-1

Khalil, Tarek

President and Provost, Nile University (Egypt)

Track 6 Plenum 2

Kilama, John

Director, Kilama International Consulting Group (USA)

CEO Panel

Kotb, Malak

*Professor, Department of Molecular Genetics, Biochemistry and Microbiology,
University of Cincinnati (USA)*

Plenary Session 2, Panel A-2

Kourilsky, Philippe

Professor of Molecular Immunology, College de France (France)

Panel A-2

Krattiger, Anatole

*Director, Global Challenges Division, World Intellectual Property Organization
- WIPO (Switzerland)*

Track 6 Plenum 1

L

Lachmann, Sir Peter

Emeritus Professor of Immunology, University of Cambridge (UK)

Plenary Session 4

Laporte, Ronald

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

Plenary Session 8

Linkov, Faina

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

Plenary Session 8

León-Carrión, José

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

Track 3

Lowery Derryck, Vivian

President, the Bridges Institute (USA)

Plenary Session 4

M

Madkour, Magdy

Professor, Faculty of Agriculture, Ain Shams University (Egypt)

Panel B-2, Plenary Session 7

Marei, Mona

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

Panel A-3

Martin, Jacques-François

President and CEO, Parteurop (France)

CEO Panel

Masood, Ehsan

Editor, Research Fortnight and Research Europe (UK)

Roundtable

McConnell, David

Professor of Genetics, Smurfit Institute of Genetics, Trinity College Dublin (Ireland)

Plenary Session 4

McNeely, Jeffrey

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

Panel C-2, Panel B-3

Murenzi, Romain

Executive Director, the Academy of Sciences for the Developing World-TWAS (Italy)

Opening Session

N

Nakamura, Yoshihiko

Professor, Department of Mechano-Informatics, University of Tokyo (Japan)

Plenary Session 5

Nakhla, Rafik

Vice President, Human Resources and Administration, Projacs International (Bahrain)

Rapporteur

Newell-McGloughlin, Martina

Director, UC Systemwide Biotechnology Research and Education Program, University of California (USA)

Track 6 Plenum 2

Nwanze, Kanayo

President, International Fund for Agricultural Development - IFAD (Italy)

Plenary Session 3

Norgaard, Karie

Associate Professor of Sociology and Environmental Studies, Whitman College (USA)

Panel C-4

O

Omenn, Gilbert

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

Plenary Session 2

Omer, Aftab

President, Meridian University (USA)

Panel C-4

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 8

Paes de Carvalho, João

Principal, BiznessBrazil (Brazil)

Track 6 Plenum 2, Track 6 Plenum 3

Pagliano, Daniel

Director, Institute of Applied Biosciences (Uruguay)

Track 6 Plenum2

Papazov Amman, Biljana

Dr. phil. nat., University of Bern (Germany)

Track 6 Plenum 3

Pingali, Prabhu

Deputy Director, Agricultural Development Program, Bill and Melinda Gates Foundation (USA)

Panel B-1

Potrykus, Ingo

Professor Emeritus, Institute of Plant Sciences of the ETH Zurich (Switzerland)

Plenary Session 7, Panel B-4

Q

Quan, Zoe

Founder, Qingchu Thinking, LLC (USA)

Rapporteur

R

Rabbinge, Roelof

Professor, Wageningen University and Research Centre (Netherlands)

Plenary Session 3, Panel B-1

Rangel-Aldao, Rafael

CEO, SummumNet Colombia, and Professor, Digital Molecular Medicine, Simon Bolivar University (Columbia)

Track 4

S

Sauer, Francois

Founder and CEO, Trans Am Group (USA)

Plenary Session 8

Serageldin, Ismail

Director, Bibliotheca Alexandrina (Egypt)

Opening Session, Keynote Address

CEO Panel, Plenary Session 8, Closing Session

Shubnikov, Eugene

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

Plenary Session 8

Slaus, Ivo

President, World Academy of Art and Science (Croatia)

Track 2

Solh, Mahmoud

*Director General, International Center for Agricultural Research in Dry Areas
- ICARDA (Syria)*

Panel C-2

Soliman, Salah

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

Rapporteur

Suojanen, Christian

*Director, Global Life Sciences, Valor Management, Co-Chairman, Tech Transfer
Initiative (TTS Ltd) (Switzerland)*

Track 6 Plenum 1, Track 6 Plenum 3

U

Uphoff, Norman

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

Panel B-1, Panel B-3

V

Van Montagu, Marc

President, European Federation of Biotechnology (Belgium)

Plenary Session 7

Van Rheenen, Teunis

Senior Research Staff, Director General's Office, International Food Policy Research Institute-IFPRI (USA)

Plenary Session 3

Von Braun, Joachim

Director, Center for Development Research (ZEF Bonn), Department for Economics and Technical Change (Germany)

Plenary Session 3

Von Gabain, Alexander

Co-founder, Intercell (Austria)

Panel A-2

W

Warwick, Kevin

Professor of Cybernetics, School of Systems Engineering, University of Reading (UK)

Plenary Session 6

Y

Yang, Huanming

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

Plenary Session 2

Z

Zaky, Yehia

Head, Academic and Cultural Affairs Sector, Bibliotheca Alexandrina (Egypt)

Panel A-3

Zucconi, Alberto

President, Istituto dell'Approccio Centrato sulla Persona - IACP (Italy)

Panel C-4

Speakers Biographies



ABOULEISH, Helmy

Managing Director, SEKEM

Helmy Abouleish is the Managing Director of the SEKEM Group in Egypt. The SEKEM Group of companies employs more than 1,500 people with the aim of turning Egyptian desert areas into fertile land through bio-dynamic agriculture, processing the harvest into foodstuff, textiles and phyto-pharmaceuticals. It is part of the holistic SEKEM initiative founded 1977 by Ibrahim Abouleish, striving for sustainable development in the fields of economy, culture and socio-political life, in harmony with nature. The SEKEM Development Foundation runs a range of schools and cultural institutions, as well as a medical center. Helmy Abouleish acquired a BSc in Financial and Commercial Studies from the Faculty of Commerce, Cairo University, in 1995. Three years later, he received his Salesmanship and Marketing Diploma from the American University in Cairo. In 2003, SEKEM received the Right Livelihood Award of 2003 and both he and his father, Ibrahim Abouleish were selected as Outstanding Social Entrepreneurs by the Schwab Foundation. In 2007, Helmy Abouleish founded, and since chaired, EcoTec Holding, providing funds, support and mentorship to start-ups in green technologies. In 2004, Helmy Abouleish founded the Egyptian National Competitiveness Council to shed light on the issue of national competitiveness, enhance Egypt's performance, and provide an international benchmarking mechanism. He is a member of the Schwab Foundation and the World Economic Forum. SEKEM is a founding member of the Arab Sustainability Leadership Group and Helmy Abouleish initiated the formation of its Egyptian National Chapter in 2010. For UN Global Compact, he is a member of the Caring for Climate Initiative and Steering Committee and is engaged in the CEO Water Mandate. A renowned leader of sustainable change in the Arab World, Helmy Abouleish heads several organizations and drives manifold initiatives for organic agriculture, corporate sustainability, national and global sustainable development.

ABOU-ZEID, Mahmoud

President, the Arab Water Council and Former Minister of Water Resources and Irrigation

Mahmoud Abu-Zeid (Egypt) is a Water Management Expert who has held the position of Minister of Water Resources and Irrigation in the Government of Egypt from 1997 to 2009. Earlier, he served as the President of the National Water Research Center, Egypt. With a Doctorate in Groundwater Engineering from the University of California, USA, he has vast international experience in teaching and research. He is presently the President of the Arab Water Council, having spearheaded the World Water Council, an International multi-stakeholder platform from its inception in 1996 till 2003 and continues to be its Honorary President. Fellow of Economic Development Institute, the World Bank, he is also on the UN Secretary-General's Advisory Board on Water and Sanitation (UNSGAB). He was the Chairman of Governing Council of the African Water Facility from 2005-2009. Abu-Zeid has been awarded many prestigious national and international prizes, including the Medal of the Republic of First Order; the King Hassan II Great World Water Prize (2003); and the American Society for Irrigation and Drainage Award, 1996.





ALBERTS, Bruce

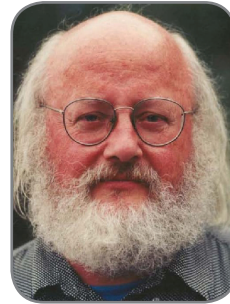
Former President, National Academy of Sciences and Editor in Chief, Science Magazine

Bruce Alberts, a prominent biochemist with a strong commitment to the improvement of science and mathematics education, serves as Editor-in-Chief of Science magazine and as one of President Obama's first three Science Envoys. Alberts is also Professor Emeritus in the Department of Biochemistry and Biophysics at the University of California, San Francisco, to which he returned after serving two six-year terms as the President of the National Academy of Sciences (NAS). During his tenure at the NAS, Alberts was instrumental in developing the landmark National Science Education standards that have been implemented in school systems nationwide. "The type of science as inquiry teaching we need", says Alberts, "emphasizes logical, hands-on problem solving, and it insists on having evidence for claims that can be confirmed by others. It requires work in cooperative groups, where those with different types of talents can discover them developing self confidence and an ability to communicate effectively with others." Alberts is also noted as one of the original authors of *The Molecular Biology of the Cell*, a preeminent textbook in the field now in its fifth edition. During the period from 2000 to 2009, he served as Co-chair of the InterAcademy Council; a new organization in Amsterdam governed by the presidents of 15 national academies of sciences, established to provide scientific advice to the World. Committed in his international work to the promotion of "creativity, openness and tolerance that are inherent to science", Alberts believes that "scientists all around the world must now band together to help create more rational, scientifically-based societies that find dogmatism intolerable". Alberts has earned many honors and awards, including 16 honorary degrees.

AMMANN, Klaus

Editor, New Biotechnology, University of Bern

Klaus Ammann is Emeritus Professor at the University of Bern. His thesis title was vegetation and glacier history, *summa cum laude*, in 1972 from Bern University. He was an assistant in Swiss Atlas of Plant Distribution, the first Swiss research department lichenology (chemosystematics and bio-monitoring air pollution). He was Lecturer in plant biodiversity and vegetation ecology. He was the Director of the Bern Botanic Garden from 1996 to 2006 and Professor h.c. in 2000. He had sabbatical stays in Bergen, Norway; at Duke University in North Carolina; the University of the West Indies in Jamaica; and the Missouri Botanical Garden in St. Louis. He became Emeritus in 2006, Visiting Professor at Delft University of Technology, and Sabanci University in Istanbul. He was the Moderator of the 'Berne Debates'. He was a member of numerous committees; he was Chair of the European Expert Committee on Plant Conservation, Council of Europe. He was the Founding Member of Planta Europa, the Swiss Biosafety Committee Biodiversity Section of EFB. He conducted several Swiss and European research projects on gene flow, plant conservation, lichen chemosystematics and monitoring air pollution. He has many publications on biogeography, vegetation history, vegetation ecology, plant systematics (monography on *Bromus*), gene flow of crops and their wild relatives, and agricultural biodiversity. He also takes special interest in Pythagorean Harmonics science and holistic questions in evolution.

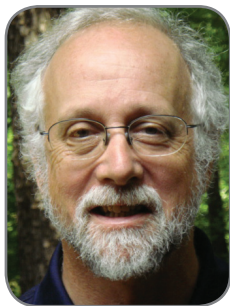


ANDERSON, Walter Truett

Co-Chair, World Academy Program on Climate Stability Governance

Walter Truett Anderson, PhD in Political Sciences and Social Psychology from the University of Southern California, is a political scientist, futurist, and author of 17 books; including "The Next Enlightenment" and "All Connected Now: Life in the First Global Civilization". He is Founder and President of the Communication Action Network (CAN); and Member of the International Expert Group on Earth System Preservation (IESP), Munich.





ARKIN, Ronald

Regents' Professor and Associate Dean for Research and Space Planning

Ronald Arkin received a BS from the University of Michigan, an MS from Stevens Institute of Technology, and a PhD from the University of Massachusetts, Amherst. He is a Regents' Professor in the College of Computing at the Georgia Institute of Technology, Director of the Mobile Robot Laboratory, and Associate Dean for Research and Space Planning of the College. In 1997/98, Arkin served as STINT Visiting Professor at the Royal Institute of Technology (KTH) in Stockholm. In 2005, Arkin held a Sabbatical Chair at Sony IDL in Tokyo, and served as a member of the Robotics and Artificial Intelligence Group at LAAS in Toulouse in 2005/6. Arkin's research interests include behavior-based reactive control, action-oriented perception, deliberative/reactive architectures, robot survivability, multiagent systems, biorobotics, human-robot interaction, robot ethics, and learning in autonomous systems. He has over 170 technical publications. Arkin has written several books: *Behavior-Based Robotics* (1998), *Robot Colonies* (1997), and *Governing Lethal Behavior in Autonomous Robots* (2009). Arkin serves as an Associate Editor for numerous journals and is the Series Editor for the MIT Press book series *Intelligent Robotics and Autonomous Agents*. Arkin serves on the Board of Governors of the IEEE Society on Social Implications of Technology. He served two terms on the AdCom of the IEEE Robotics and Automation Society, served as founding co-chair of the IEEE RAS Technical Committee on Robot Ethics, co-chair of the Society's Human Rights and Ethics Committee, and also served on the National Science Foundation's Robotics Council from. In 2001, he received the Outstanding Senior Faculty Research Award from the College of Computing at Georgia Tech, and in 2011 received the Outstanding Achievement in Research Award from the University of Massachusetts Computer Science Department. He was elected a Fellow of the IEEE in 2003.



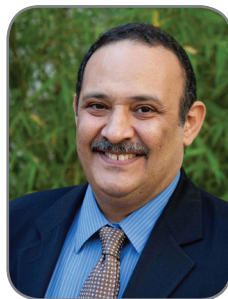
AZIZ, Ramy

Assistant Professor, Department of Microbiology and Immunology at Faculty of Pharmacy, Cairo University

Ramy Aziz is an Assistant Professor at the Department of Microbiology and Immunology, Faculty of Pharmacy, Cairo University. He also holds an Adjunct Faculty Position at San Diego State University since 2008. His main research interests are bacterial pathogenesis, microbial and bacteriophage genomics, and the study of mobile genetic elements in genomes and metagenomes. He is also interested in scientific communication, open access publishing, and innovative methods in teaching microbiology.

AZZAZY, Hassan

Professor of Chemistry, Leader of Novel Diagnostics and Therapeutics, the American University in Cairo (AUC)



Hassan Azzazy is a full tenured Professor of Chemistry at the American University in Cairo (AUC), Egypt. He is also the leader of the Novel Diagnostics and Therapeutics Research group at Yousef Jameel Science and Technology Research Center, and the Director of the International Medical Technologists training program. Azzazy is also an Adjunct Professor at the Graduate School of Information Technology and Management, University of Maryland University College, USA. He served as Director of Biotechnology Discipline at the Medical and Research Technology Department (University of Maryland), the Chairman of Chemistry Department, the Founding Director of MSc Chemistry program, and the Associate Dean for Graduate Studies and Research at the AUC. He has published 42 referred journal articles, 50 conference abstracts, 22 textbook chapters, and 8 monographs. Dr. Azzazy is a member of the Editorial Board of the Clinical Biochemistry Journal (Canada), Clin Chimica Acta (USA), and Clinical Chemistry Clinical Laboratory Medicine journal (Europe). He has received several awards including Upjohn Research Achievement Award (UNT), Graduate Faculty Award for the Outstanding Graduate (UNT-HSC), Clin Chem Chair's Award (Board of Registry, American Society for Clinical Pathology), Excellence in Research and Creative Award (AUC), and Excellence in Teaching Award (AUC). In 2010, he received the State Prize in Advanced Technological Sciences from the National Academy for Scientific Research and Technology. He is a member of the Editorial Boards of the Clinical Biochemistry, Clin Chimica Acta, and Clinical Chemistry Laboratory Medicine Journals. Hassan Azzazy has published over 120 articles, book chapters, conference abstracts, and monographs all in international journals, textbooks, and conferences. He is the recipient of numerous honors and awards, the latest of which are the AUC 2008 Excellence in Research and 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. He is a fellow of the National Academy of Clinical Biochemistry (FACB), Washington, DC, USA.



BERG, Robert

Member of the Board, Alliance for Peacebuilding

Robert Berg founded USAID's Office of Evaluation and was Founding Chair of evaluation for the OECD's Development Assistance Committee. He was a Senior Fellow of the Overseas Development Council; President and then Chair of the International Development Conference, then the largest forum on international development in the USA; and has been an advisor on a number of global summits on development and environment. He was senior advisor for various UN groupings; such as, the World Summit for Children (the first summit on development), the World Education Forum consisting of the world's education ministers, and the UN Economic Commission for Africa (1995-2005), where he helped institute an unusually deep reform. He proposed and assembled the UN's first system-wide substantive initiative, the second being the Millennium Development Goals. He has also had private sector experience in banking and exporting; served on and chaired a number of community boards, and has been active at the community and global levels on microfinance. Currently he directs the United Nations Association's Graduate Fellows Program. He was Senior Advisor to the World Federation of United Nations Associations and is a board officer of Equal Access, the World Academy of Art and Science, and the Alliance for Peacebuilding. His latest publications appear in the *Stanford Journal of Law, Science and Policy* (May 2011) and *CADMUS*, the journal of the World Academy of Art and Science (October 2011). He is a fellow of the Royal Africa Society, a member of the Bretton Woods Committee, the Cosmos Club, and the International Scientific Committee of BioVision 2012.

BERRIE, Morris

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

Morris 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 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 Patent and Registry Director of the life science patent and drug registry content of the Investigational Drug database (IDdb), now owned by ThomsonReuters. He has worked at Schering AG, is a Chartered Chemist, a Member of the Royal Society of Chemistry and was the recipient of a European DG Post-Doctoral Fellowship upon completing his PhD, at Imperial College, London. He also sits on the Business Strategy, Publishing and Awards Committees of the Society of Chemical Industry.





CANAVAS, Constantin

Prof. Dr.-Ing, Faculty Life Sciences, Hamburg University of Applied Sciences

During 1974-1979, Constantin Canavas studied at the School of Chemical Engineering, National Technical University of Athens. He received the Diploma of Chemical Engineering in 1979. As for his postgraduate studies, during 1979-1988 he studied at the Institute for System Dynamics and Control (ISDC), University of Stuttgart, Germany and received his PhD (Dr.-Ing.)

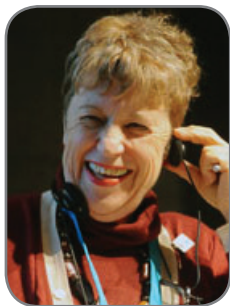
from the University of Stuttgart in 1988. During 1988-1992, he worked in research and development on process control and safety at the Chemical Company, Henkel (Duesseldorf) University. During 1979-1988, he worked as a scientific researcher at the ISDC, University of Stuttgart. Since January 1993, he has been a Professor at the Hamburg University of Applied Sciences. He has teaching and research experience in the fields of Control Technology, Process Safety/Risk Management, Technology Assessment (focus: Medical and Bio-Technology), History and Philosophy of Technology, and Environmental History. In 1997/1998, he was a Lecturer in the joint graduate program "Philosophy and History of Sciences and Technology" of the University of Athens and the National Technical University of Athens, Greece. Since 1998, he has been a Lecturer in Risk Assessment and Risk Management at the joint graduate course TECHNOSCOPE, and since 2008, the postgraduate project PENED (NTU Athens). In 1999/2000 and 2004, he was a Visiting Lecturer of Arab History at the University of Crete, Greece, Department of History and Archaeology. His memberships include the Gesellschaft fuer Technikgeschichte (Society for the History of Technology); International Society for the History of East Asian Science, Technology, and Medicine; European Association for the Study of Science and Technology; Society for the Study of the Ancient Greek Technology (Athens), European Association of Cultural History; Society for Historical Anthropology (Berlin); and Commission on History of Science and Technology in Islamic Societies and Hamburg Orient Gesellschaft.

CARLONE, Claudio

Advisor, Italian Agency, for Technology and Innovation

Claudio Carlone is a communication senior professional specialized in strategic advisory services, management, public and institutional relations. Former President and CEO of Hypothesis and Advisor at the Agency for Technology and Innovation (Italian Government), at present he works in support of manufacturing companies, financial institutions, public administration and other organizations. Born in Rome in 1952, Carlone received a degree in Chemical Engineering and Biology from the University of Rome "la Sapienza" (1977) and later conducted research in Biotechnology at the Italian National Research Council (CNR). In 1982, Carlone launched a career in journalism and communications, focusing on innovation and its economics, intellectual property, the relationship between enterprise and society, and the role of new technology in value creation and development processes. In 1989, he founded Hypothesis, a communication company, where he has gained 20 years of experience in public and institutional relations, and special projects, both at national and international levels. 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). Other activities include acting as Coordinator of the Milan Chamber of Commerce Advisory Board for the Innovation Centre Project, launched in 2005; Secretary of the Commission for the recovery plan for the former Falck industrial area in Sesto San Giovanni (Milan); and Coordinator of the Committee for Science and Technology (CAST) of the City of Milan. Carlone has chaired or participated in numerous national and international seminars, conferences and congresses, both as speaker and chairperson. Former President of the Rotary Club Milano-Ovest, he sits on the board of APE (Italian Association for Economic Development).





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 Foresight Advisory Committee for Group Suez Environment, the Crop Diversity Trust; Member of the UN Secretary General's Advisory Board on Water; the IFDC (Fertilizer Council); World Food Prize and Syngenta Foundation Boards; the World Economic Forum Global Agenda Council on Water; the Rosenberg Forum; the Canadian Water Network, President of CIDA, (1983-1989); Deputy ED UNICEF in New York, (1981-1983); President Population Council in New York, (1993-1998); and Deputy Minister Department of Health and Welfare, (1989-1992). She has eleven honorary degrees and received the Officer Order of Canada.



CHALITA, Katia

President, ÁKBAR Produções Artísticas

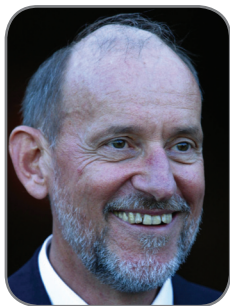
Katia Chalita is a journalist, consultant in communication and culture, TV anchor and scriptwriter. She graduated in Letters at the Catholic University of Rio de Janeiro (PUC, Rio), with a Master's degree in Portuguese and Linguistics, and has specializations at the Sorbonne Nouvelle and at the Maison des Cultures du Monde in Paris, France. In 1999, she was appointed a member of the Petropolitan Academy of Letters, established in 1922. She was Secretary of Culture for the city of Petrópolis for two years; Special Advisor to SESC, an important Brazilian social and cultural organization; and for 5 years, Director of the TV, Radio and Cinema Division of Multirio, the Rio de Janeiro City Multimedia Producer. From 1996 to 2008, she headed and anchored the live TV talk shows *Multieducação* and *Rio, a Cidade!* aired in open and subscribers channels. She was anchor and consultant for the TV programs *France Express*, *Merveilles de France*, *Front Page* and *Aventures*, and participated in the interview programs *Sem Censura*, *Olhar* and *Primeiro Time* in the Educational TV. She is currently the scriptwriter and presenter of the cultural and educational TV program *Restez Branché!* produced and aired by the Ministry of Education TV Escola. She is also an MC and mediator in important corporate and public events, conferences and round tables, and is an education, communication, content and media training consultant to corporations and institutions. For the dissemination of French language and culture and for the exchange between the Brazilian and French cultures, she was awarded the commendation "Chevalier dans l'Ordre des Palmes Académiques" by the French Ministry of Culture.

CHRISTIE, Werner

Former Norwegian Minister of Health

Werner Christie is a former Norwegian Minister of Health in Brundtland's Cabinet, (1992-1995); former Chair of the Biotechnology Advisory Board of Norway (www.bion.no); and WHO's Stop TB public-private partnership. Werner is a practicing Medical Doctor also educated in Social Science. He also has more than 13 years of experience as a part-time farmer. He has worked as Public Health Officer and Hospital Manager, done research and published a textbook on planning and management of primary health care. He has served on a number of boards for health care providers, investors and start-ups, including European Federation of Biotechnology (www.efb-central.org) and ScanBalt (www.Scanbalt.org). He was special advisor in medical and bio-technology for the Norwegian Trade Council (www.innovationnorway.no), and served two years in that function in San Francisco. He chaired the early development of WHO's "Stop TB" initiative (www.stoptb.org), a worldwide public-private partnership against tuberculosis. It has since reached more than 1,200 partners. Since 2007, he has been board member of the Brussels based Public Advice International Foundation, (<http://www.pa-international.org/>). In 2001, he started his own fulltime consulting business, "World Health Connections", focusing on entrepreneurship and investment strategies in Medical and Biotechnology, as well as health care development and advising both private and public enterprises. This is currently his main engagement. From 2004 to 2009, he was Science and Technology Counsellor for the Norwegian Embassy, Beijing, where his work focused on energy, environment (www.neec.no), building, medical, marine and bio-science and technologies as well as welfare and health reform issues.





COUVREUR, Patrick

Full Professor of Pharmacy, Paris-Sud University

Patrick Couvreur is Full Professor of Pharmacy at the Paris-Sud University and holder of the chair of "Innovation Technologique" at the prestigious Collège de France, (2009/2010). He was recently appointed as a Senior Member of the "Institut Universitaire de France". He is the recipient of an "ERC Advanced Grant", (2010-2015). Patrick Couvreur's contributions in the field of drug delivery and targeting are highly recognized around the world through 430 research articles, 250 invited lectures, 59 patents and the main author/editor of 7 books (H-index 66 and 14,000 citations). His research is interdisciplinary and focuses on the conception of nanomedicines for the treatment of severe diseases (cancer, infectious diseases and neurological disorders). Methodologies are at the interface between Physico-Chemistry of Colloids, Polymer Chemistry, Material Science and Pharmacology/Cancerology. Patrick Couvreur's research has led to the funding of two start-up companies (Bioalliance, 70 employees and Medsqual). The major scientific contribution of Patrick Couvreur to the Pharmaceutical Sciences is also recognized by numerous international awards among which, the 1990 Young Investigator Award for Excellence in Research from the Controlled Release Society (USA), the Pharmaceutical Scientist of the Year 1996 Award from the International Federation of Pharmacy (FIP), the 2004 Pharmaceutical Sciences World Congress Award (Kyoto, Japon), the prestigious Host Madsen Medal (Beijin, 2007), the Marie-Maurice Janot Award Lecture (2008), the Prix Galien (2009) and the European Pharmaceutical Scientist Award (2011). His appointment as a member of four academies (Académie des Technologies, Académie de Médecine and Académie de Pharmacie in France, as well as Académie Royale de Médecine in Belgium) is another recognition of major scientific and scholarly contributions of Patrick Couvreur.

DAAR, Abdallah

Chief Scientist, Grand Challenges Canada; Professor of Public Health Sciences, University of Toronto

Abdallah Daar is Professor of Public Health Sciences and of Surgery at the University of Toronto. He is also Senior Scientist at the McLaughlin-Rotman Centre Program on Life Sciences and Global Health, University Health Network. After medical school in London, England, he did his postgraduate clinical training in surgery and in internal medicine, as well as a doctorate in transplant immunology/immunogenetics, and a fellowship in transplantation at the University of Oxford. In the Middle East, he helped start two medical schools and chaired the Foundation of Surgery in Oman for a decade before moving to the University of Toronto in 2001. He has co-authored five books and has over 300 publications. He works in consulting capacities with the UN, the World Health Organization and UNESCO, and is a member of the African Union High Level Panel on Modern Biotechnology. He is a Fellow of the Royal Society of Canada, the Third World Academy of Sciences for Developing World, the Canadian Academy of Health Sciences, the New York Academy of Sciences and a Senior Fellow of Massey College, University of Toronto. He is a member of the Ethics Committee of the Human Genome Organization. He holds the official world record for performing the youngest cadaveric donor kidney transplant.





DESMARESCAUX, Philippe

Chairman, the World Life Sciences Forum, BioVision

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 was President and later Chairman of the Agrochemical Sector of the company (1980-1996), Chairman of Chemicals Sector (1991-1997), and Chairman of the Group's American subsidiary Rhône-Poulenc Inc. (1986-1997). He became President of the Rhône-Poulenc Group in 1992. He was 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, and Chairman and Board Member of various companies (SEB Group, Auriga, Innate Pharma, Eurotab,...).



DUTILH, Bas

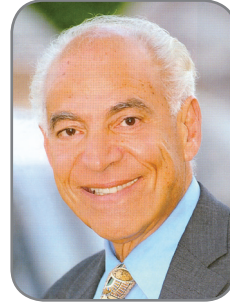
Associate Faculty Member, Radboud University Nijmegen Medical Center

Bas Dutilh studied biology at Utrecht University and received his PhD in bioinformatics (2007) at the Radboud University Nijmegen Medical Centre in The Netherlands. He focuses on comparative genomics in a broad sense, extracting and using the traces left by evolution in the genomes of all organisms to gain knowledge about their function. A recently acquired personal Veni grant from the Dutch Science Organization enables him to do three years of independent research on the interactions between microorganisms in the wild (i.e. in their natural habitat). As part of this work, he addresses the role of microbes in the onset and progression of diseases including colorectal cancer. The past year he has been working on comparative metagenomics at San Diego State University as a visiting researcher in the Departments of Computer Science and Biology.

EL-BAZ, Farouk

Director, Center for Remote Sensing, Boston University

Farouk El-Baz is Research Professor and Director of the Center for Remote Sensing, Boston University (since 1986). He received his PhD in 1964 (University of Missouri), taught mineralogy at Heidelberg University and worked in Egypt's oil industry. During 1967-1973, he participated in the Apollo program as secretary of the lunar landing site selection, and chair of astronaut training in visual observations and photography. During 1973-1984, he established and directed the Center for Earth and Planetary Studies at the Smithsonian Institution, Washington DC. He received four honorary doctoral degrees. His honors include: Egypt's Order of Merit of the First Class, the Nevada Medal, the Golden Door Award (International Institute of Boston), the Pioneer Award (Arab Thought Foundation), the Human Needs Award (American Association of Petroleum Geologists), the Award of Public Understanding of Science and Technology (AAAS), and the Exceptional Scientific Achievement Award (NASA). He is member of the US National Academy of Engineering, the African Academy of Science, the Arab Academy of Science, and the Islamic Academies of Science





EL-BELTAGY, Adel

President, Governing Board, International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM)

Adel El-Beltagy currently plays many roles in the agricultural world. He is President of CIHEAM; Chair of the International Dryland Development Commission (IDDC), Member of the FAO High-Level Conference (HLC), addressing the implementation of Millennium Development Goals (MDGs); Member of the European Action on Global Life Sciences (EAGLES); Head of the Agriculture and Food Research Council, Egyptian Academy of Science; Board Member of Bibliotheca Alexandrina; a Professor of Agriculture, Arid Lands Research Institution, Ain Shams University. Most recently, he has served as the Chair of the Global Forum on Agricultural Research (GFAR), Director General of the International Center for Agricultural Research in Dry Areas (ICARDA). He is Co-Chair of the Board of the Global Diversity Trust Fund (GDTF), Chair of the Agriculture Research and Development Council (ARDC), Egypt. He was Director/Board Chair of the Agriculture Research Center of Egypt, Chair for the Scientific Technical Council of the International Sahara and Sahel Observatory (SSO), first Under-Secretary of the State for Land Reclamation of Egypt. He is fellow of the University of Wales, Chair of Executive Board, the Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD). He holds an Honorary Doctorate of Science from the University of Khartoum. He is Chairman of Center Directors Committee (CDC) for the International Agriculture Research centers of the Consultative Group on International Agricultural Research (CGIAR). He is also Chair of Integrated Natural Resources Management (INRM); Member of the Center Directors Committee - International Center Working Group on Climate Change (CDC ICWG CC); Member of the CGIAR Genetic Resources Policy Committee; Board Member of the Millennium Ecosystem Assessment Board; Chair of the CDC Task-Force for Central Asia and the Caucasus of the Central West Asia and North Africa (CWANA); and a Fellow of TWAS and elected as 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; and the Sultan Qaboos First Class Order for Culture, Science and Arts for his contribution to the Development of Agriculture in the Dry Areas. He has also been awarded the 2008 State Recognition Prize in Science, Egypt. In 2006, he was elected member of l'Institut d'Egypte founded in 1798, and a Founding Member of the British Plant Growth Regulator Group, the American Association for the Advancement of Science (AAAS), International Plant Growth Substances Association, Federation of EU Societies of Plant Physiology, International Society of Horticultural Science, US Society for Horticultural Science, Society for Experimental Biology of the UK, Egypt Society for Horticultural Science, World Water Council (WWC), Arab Water Council (AWC). He has authored/co-authored more than 140 sciences publications.

ELLIOTT, Malcolm

Founding Director, the Norman Borlaug Institute for Global Food Security



Malcolm Elliott is the Founding Director of the Norman Borlaug Institute for Global Food Security. He sees the role of the Institute as facilitating the delivery of food security and creation of wealth by applying cutting-edge plant science techniques in crop improvement programmes that will enable the sustainable enhancement of global agricultural production. A working partnership of Rothamsted Research and the University of Nottingham re-established the Institute as the Norman Borlaug Institute for Global Food Security at Rothamsted in November, 2011. Elliott graduated with First Class Honors in Plant Sciences from the University of Wales in 1963. His PhD in plant biochemistry in the laboratory of Professor H.E. Street at the University of Wales (1966) was followed by a period as a Fulbright Scholar and Research Staff Biologist at Yale University, (1967-1969). He returned from the USA to take the post of Lecturer in Plant Biochemistry at the University of Leicester, (1969-1971); then he became Professor and Head of the School of Life Sciences at De Montfort University, Leicester, (1971-1994). He was Chairman of the College of Deans at De Montfort University, (1989-1993); Founding Director of the Norman Borlaug Institute for Crop Improvement, (1994 to date); and Editor-in-Chief of the BioMed Central open access journal Agriculture and Food Security, (2011 to date). Elliott is the author of several hundred research publications with emphasis on molecular biological approaches to cereal improvement and he has directed the Higher Degree programs of more than fifty Graduate Students. He was honored by the award of the Charles University Medal in 1992, the Gregor Mendel Gold Medal for Biological Sciences Research of Exceptional Merit in 1993, the Jan Evangelista Purkyne Medal in 1994, and the DSc (Honoris Causa) of the Bulgarian Academy of Agricultural Science in 2006.



EL-NOKRASCHY, Hani

Vice Chairman, Supervisory Board, DESERTEC Foundation.

Hani El-Nokraschy obtained his BSc in Mechanical Engineering in 1958, from the Faculty of Engineering, Cairo University, Egypt. In 1963, he obtained his Dipl.-Ing. from the Technical University, Darmstadt, Germany, and in 1968, he obtained his Dr.-Ing. Since 2005, he has been the Managing Director and the owner/partner of the Egyptian Solar Research Center (SOLAREC), www.solarec-egypt.com. Since 2003, he has been the owner and CEO of Nokraschy Engineering GmbH in Holm, Hamburg. He was Member of the Executive Committee for MENAREC 4 in Damascus, during 21-24 June 2007. In 2007, he was Consulting Member to the German Expert Team for renewable energies in the frame of the German Egyptian year of science and technology. In 2006, he was the creator and administrator of the website www.menarec.org for the conference series "Middle-East North-Africa Renewable Energy Conference". From 2004 to 2007, he was a member of some study teams such as MED-CSP; TRANS-CSP and AQUA-CSP; Renewable Energy Potential and Electricity Demand around the Mediterranean; and Electricity Transmission to Europe and Seawater Desalination with Concentrating Solar Power. He has a membership in many organizations. In 2009, he co-founded the DESERTEC Foundation and was Vice Chairman of the Supervisory Board. He was Member of the Advisory Board for REMENA Bi-cultural Masters Course in RE, in 2008. In 2003, he was on the European Business Council for Sustainable Energy. In 2002, he was a member in the Trans-Mediterranean Renewable Energy Co-operation, TREC, which is a network of scientists devoted to climate protection and renewable energy applications. In 1999, he joined the association of Egyptian Businessmen in Germany.

EL-SAYED, Mostafa

Julius Brown Chair and Director, Laser Dynamics Laboratory, Georgia Tech



Mostafa El-Sayed received his BSc from Ain Shams University, Cairo, Egypt; a PhD from Florida State University; and is a Postdoctoral Fellow at Yale, Harvard and the California Institute of Technology. Former Chemistry Faculty Member (1961-1994), and Julius Brown Chair and Regents' Professor at Georgia Institute of Technology (1994-present), El-Sayed published over 600 publications in the fields of molecular dynamics, energy conversion, photobiology, laser spectroscopy and lately nanotechnology. The citations to his work in the past decade placed him fourth in the field of Academic Chemistry worldwide. El-Sayed is an Elected Member of the US National Academy of Sciences, an Elected Fellow of the American Academy of Arts and Sciences, an Elected Associate Member of TWAS, an Inaugural Fellow of the ACS and the APS, and an Elected Fellow of the AAAs. He is an Honorary Fellow of the Indian and of the Chinese Chemical Societies. El-Sayed was an Alexander von Humboldt Senior Fellow, Germany; a Visiting Professor at the University of Paris; an Alfred P. Sloan as well as a Guggenheim Foundation Fellow; a Fairchild Fellow at the California Institute of Technology and a Miller Visiting Professor at UC Berkley. He received the King Faisal International Prize in the Sciences; an honorary doctoral degree from the Colleges of Medicine of both Mansoura and Alexandria Universities in Egypt, and recently from the American University of Beirut. He has received a number of national awards; such as the Fresenius, the Tolman, the Richard's medal, the Lindeman's medal, the Seaborg's medal, as well as other numerous local sectional awards. In 2002, he received the ACS-APS Langmuir National Award in Chemical Physics, and in 2007 was the Georgia Tech's Distinguished Professor of the year. Mostafa El-Sayed received the 2007 USA National Medal of Science in Chemistry from the President of the United States (2008), and the Medal of the Egyptian Republic of the First Class (2009).



FARUQUI, Naser

Director, Science and Innovation, International Development Research Centre

Naser Faruqui leads the IDRC that supports the development of science, technology, and innovation policies in developing countries to alleviate poverty. Before joining Science and Innovation, Naser Faruqui led IDRC research on greywater treatment and reuse, solid-waste management, and the environmental impacts of urbanization. In 1999, he was named one of

the top 14 young water specialists in the World by a group of internationally respected water organizations. Faruqui has advised the Canadian Government on political, social, and economic implications of drought in the Middle East; the Canadian International Development Agency on its programs for Jordan and Pakistan; and the World Health Organization on cultural obstacles to wastewater reuse. He has been invited to serve on boards and steering committees of major international initiatives focusing on cities, food and water security, and the consequences of ecosystem change. Faruqui holds an Executive MBA from Queen's University and a Masters' Degree in Environmental Engineering from the University of Ottawa.

FASSOTTE, Christian

VP Medical Affairs, Intercontinental Region Sanofi

Christian Fassotte, MD, FBCPM, FFPM, is Vice-President of Medical and Scientific Affairs Intercontinental for Sanofi, France, since 2007. He is also a member of the corporate Research and Development Management Board. Christian Fassotte is responsible for developing and implementing Regional Medical and R&D strategies, ensuring their performance and identifying issues and opportunities to improve healthcare in the Intercontinental Region taking into account the specific unmet needs. Christian Fassotte joined the group in 1998 as Medical and Clinical Research Director in Belgium, and has also been Scientific Director in Spain. Christian Fassotte has a career matching the one of a Global Health Care Physician; as before joining Sanofi, he practiced medicine for 3 years, then joined the Health Care industry in Medical Devices (3M) where he held positions in Medical, Regulatory, Sales and Marketing. He then joined Roche where he held Medical, Regulatory and Clinical Research positions in Belgium and The Netherlands, before going to Switzerland as Global Regulatory Head, and Global Head of Clinical Development both for the Consumer Health Care division. All the above account for 23 years experience in the health care industry. Christian Fassotte received an MD degree from Liege University, and specialized in Pharmaceutical Medicine both in the UK, Belgium, Brussels and London.



FEDOROFF, Nina

Evan Pugh Professor, Huck Institutes of the Life Sciences, Penn State University

Nina Fedoroff received her PhD 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 Penn Statl.





FRANCESCHINI, Nicolas

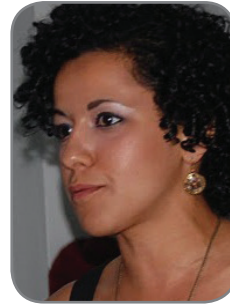
Director, Neurocybernetics Research, Centre National de la Recherche Scientifique - CNRS

Nicolas Franceschini was born in Mâcon, France. He graduated in electronics and control theory from the National Polytechnic Institute, Grenoble. In 1972, he received the Masters' Degree in Sciences in Physics from the University of Grenoble with a thesis on "Micro-optics in the Insect Compound Eye". He switched to neuroscience and behavioral science, spending 13 years at the Max-Planck Institute for Biological Cybernetics, Tübingen, Germany. Upon returning to France, he set up the Neurocybernetics lab, and later the Biorobotics lab, at the National Center for Scientific Research (CNRS), Marseille. His research interests cover neural information processing, vision, eye movements, micro-optics, neuromorphic circuits, sensory-motor control systems, biologically inspired robots and insect inspired autopilots. Since 1985, he has largely contributed to the foundation of Biorobotics. Nicolas Franceschini has given more than 150 invited talks at international conferences and received several national and international prizes in both Neuroscience and Engineering. He is a member of the Academia Europaea.

GAMAL, Hebatallah

Senior Manager, International Partnerships Europe/
Middle East/Africa, TechSoup Global Network

Hebatallah Gamal is an experienced Internet and communication technology expert. She has recently joined the TechSoup Global team as Senior Manager of International Partnerships for Europe, Middle East and Africa (EMEA). Hebatallah is based out of the Fundacja TechSoup (FTS) office in Warsaw, Poland. As the Senior Manager of International Partnerships, Hebatallah works very closely with TechSoup's EMEA partners, specifically facilitating the integration of new, evolving TechSoup programs into the EMEA Partner Network. Prior to joining TechSoup Heba worked at Google, Inc, where she managed the Search for the Middle East and North Africa Region. There, she focused on pushing the quality of the search experience to serve the local needs and study how to stabilize the Internet infrastructure for developing countries by coming up with locally relevant product features, policies and improvements. Most recently, Hebatallah was a Kiva.org Fellow in Beirut, Lebanon working with Kiva's micro-finance institution partner on the ground. Hebatallah served on the boards of the Foundation for Sustainable Development and the Clarence Foundation, mostly focusing her efforts on building and growing their technology capacity. During her time on the Clarence board, Heba served as the Technology Committee Chair, where she helped manage the launch of the new Giving Circles website, drive online marketing campaigns, and find potential giving circles participants. Hebatallah studied Global and International Studies with emphasis on Socioeconomics and Politics of the Middle East at the University of California at Santa Barbara.





GILBERT, Jack Anthony

Senior Environmental Microbiologist, Argonne National Laboratory

Jack Gilbert obtained his PhD from Nottingham University, UK in 2002, and received his postdoctoral training in Canada at Queens University. He subsequently returned to the UK in 2005 and worked for Plymouth Marine Laboratory at a senior scientist until his move to Argonne National Laboratory and the University of Chicago in 2010. Gilbert is a Senior Environmental Microbiologist at Argonne National Laboratory; Adjunct Professor in the Department of Ecology and Evolution at University of Chicago; Fellow of the Institute of Genomic and Systems Biology; and affiliated with the Department of Mathematical and Computational Sciences. Gilbert has research interests in microbial community ecology. He is currently applying next-generation sequencing technologies to microbial metagenomics and metatranscriptomics to test fundamental hypotheses in microbial ecology. He has authored more than 60 publications and book chapters on metagenomics and approaches to ecosystem ecology. He has focused on analyzing microbial function and diversity, with a specific focus on nitrogen and phosphorus cycling, with an aim of predicting the metabolic output from a community. Specifically, microbial ecosystem services through resource provision and feedback loops associated with higher organism productivity. He is currently working on generating observational and mechanistic models of microbial communities associated with aquatic and terrestrial ecosystems. He is on the board of the Genomic Standards Consortium (www.gensc.org) non-profit organization committed to improving metadata standards for metagenomic data submissions, is an editor for PLoS ONE and the ISME Journal, and is co-leading the Earth Microbiome Project (www.earthmicrobiome.org).

GOONATILAKE, Susantha

President, Royal Asiatic Society



Susantha Goonatilake was first trained in electrical engineering in Sri Lanka, Germany and Britain and later in sociology in Sri Lanka and Britain (PhD; MA; BA; BSc; AMIEEE). Goonatilake's books include: A 16th Century Clash of Civilizations: the Portuguese Presence in Sri Lanka; Cultural Consequences of the Shift to Asia (forthcoming); Anthropologizing Sri Lanka: A Civilizational Misadventure; Recolonisation: Foreign funded NGOs in Sri Lanka; Toward a Global Science: Mining Civilizational Knowledge; Merged Evolution: the Long Term Implications of Information Technology and Biotechnology; Technological Independence: the Asian Experience; Evolution of Information: Lineages in Genes, Culture and Artefact; Aborted Discovery: Science and Creativity in the Third World; Crippled Minds: an Exploration into Colonial Culture; Food as a Human Right; Jiritsu Suru Ajia No Kagaku-Dai San Sekai Ishiki Karano Kaiho (Japanese translation of writings by Goonatilake); and *Al-Iktishaf al-mujahad; al-'ilm wa-l-ibda' fi al-'alam al-thalith* (Arabic translation of writings by Goonatilake). Goonatilake has taught or researched at, among others, the Universities of Exeter and Sussex, UK; Columbia University; and New School for Social Research, New York; Institute of Developing Economies, Tokyo; Universities of Philippines, Manila, Trondheim, Norway; Linköping, Sweden, Malaya; the Institute of Social Studies, The Hague. He was also Senior Consultant for all the UN organs dealing with knowledge and science and technology issues (such as UNU, UNESCO, UNDP, ILO, FAO, ESCAP, APDA). Goonatilake is a former General President of the Sri Lanka Association for the Advancement of Science and is the President of the country's oldest academic body, the 167 year old Royal Asiatic Society, Sri Lanka. He is a Fellow of the World Academy of Arts and Sciences.



HENTSCHEL, Christopher

Former President and CEO, the Swiss Foundation Medicines for Malaria Venture

Christopher Hentschel is the former President and CEO of the Swiss Foundation Medicines for Malaria Venture, MMV, and has recently joined Bio City Development Co as a partner. His immediate role in this capacity is to support the establishment of a world class partnership based science base at Bio Istanbul, a \$2 billion biomedical science park in Turkey. Under his guidance, MMV became the global leader in malaria drug discovery and development, and as a scalable, global public-private-partnership it remains an important paradigm for biomedical innovation targeted at the production of global public goods. Christopher Hentschel also has considerable experience in adding value to purely private sector biomedical research efforts. He served as Senior Vice President and Chief Scientific Officer of Centocor, known for its pioneering cardiovascular and autoimmune drugs Reopro and Remicade. He was instrumental in Centocor's merger with J&J in 1999 and served as Chairman of the company's scientific advisory board. His breadth of experience in adding societal and economic value through biomedical innovation is widely recognized and he has been a regular contributor to relevant high level fora; namely the World Economic Forum meetings in Davos, the Global Medical Forum meetings in Zurich and the Abu Dhabi, and Biovision in Lyon. He is currently a board member of several for-profit and not-for-profit organizations.

HOCH, Didier

CEO, the World Life Sciences Forum, BioVision

Didier Hoch obtained his degree in Medicine from Lyon University in Biology, Sports Medicine, Immunology, and Allergology. He also obtained a Masters degree in Marketing from ESCP and a CESA in Finances from HEC. He has been President of the LEEM Biotechnology Committee since 2006, and President of the Health Committee of the MEDEF since 2009. He has been Board Member of the FINOVI since 2007, and Board Member within "Les Entreprises du Médicament" (LEEM) from 2003 to 2011. From 2003 to 2009, he was President of the European Vaccine Manufacturers Association (EVM), and in 2002 and 2010, he was Vice President and Board Member of EVM. In 2008, he was elected "Manager of the Year" and received the Cegedim trophy. Since 2011, he has been Board Member (Chairman of Pevion Biotech, Effimune, Gentice) and Strategic Advisor for companies involved in life sciences and health. From 2000 to 2010, he was Chairman and Member of the Directoire of Sanofi Pasteur MSD (EU JV for vaccines between Sanofi Aventis and Merck). From 1998 to 2000, he was the Vice President of Africa and Middle East Rhône-Poulenc Rorer 5 Aventis Pharma international. From 1996 to 1998, he was Deputy General Manager of Rhône-Poulenc Rorer France. From 1990 to 1996, he was Marketing Director and General Director of Spécia (Rhône-Poulenc). In the period from 1985 to 1990, he was Regional Physician, Product Manager, Group Product Manager at Théraplix (Rhône-Poulenc).





HUTTNER, Eric

General Manager, Diversity Arrays Technology

Since 2011, Eric Huttner has been General Manager of Diversity Arrays Technology Pty Limited; a biotechnology company delivering a high throughput and low cost plant genotyping service and IT support for plant breeding. His fields of experience include plant breeding; genetics and molecular biology; and research program design and management. His interests are application of biology to international agriculture and development, food security and environmental sustainability. In 1986, he obtained his Engineer-Doctor degree from the Institut National Agronomique (Paris, France). He worked as a Postdoctoral Scientist from 1987 to 1988 in the laboratory of Professor Zhou Guang Yu, Shanghai Institute of Biochemistry, Chinese Academy of Science, Shanghai, China. From 1988 to 1990, he worked as a staff scientist at INRA Versailles. From 1990 to 1998, he was Director of the Groupe Limagrain Pacific, the plant molecular biology research laboratory of Groupe Limagrain in Canberra, Australia. He worked on Molecular tools for crop improvement, genes for artificial male sterility and virus resistance. From 1991 to 1998, he was the Founding Member of the Cooperative Research Centre for Plant Science, Canberra. He also acted as Scientific Adviser to Gene Shears Pty Limited; a biotechnology company developing ribozyme technology for commercial applications from 1991 to 1998. He has been a Member of the Board of Gene Shears from 1993 till date. He was the Director of Plant Genomics Research, Biogemma, Paris from 1998 to 2000. He was instrumental in founding Génoplante; the French public-private consortium for plant genomics research. He was Chief Scientific Officer, Biogemma in 2000. From 2001 to 2004, he was Business Development Manager and Principal Scientist, CAMBIA. He was a Member of the Australian government Biotechnology Advisory Council from 2005 to 2008. He has authored twenty publications, and several book chapters. He is an inventor of several technologies, patented or with patent pending.

JAMES, Clive

Chairman and Founder, ISAAA

In 1990, Clive James founded ISAAA, a not-for-profit charitable organization, established to facilitate the sharing of knowledge and the acquisition and transfer of crop biotechnology applications from the industrial countries, for the benefit of resource-poor farmers in the developing world. The mission of ISAAA is to alleviate hunger and poverty in the developing countries. An agricultural scientist, James received his formal training in the UK, with a first degree in Agriculture from the University of Wales, followed by a PhD from Cambridge University. Prior to his association with ISAAA, he was Deputy Director General at the International Maize and Wheat Improvement Center (CIMMYT) in Mexico, where he worked with the late Norman Borlaug, the Nobel Peace Prize laureate, who was the founding patron of ISAAA. The past twenty-five years have been spent living and/or working in the developing countries of Asia, Latin America, and Africa; and devoted to agricultural research and development issues, and crop biotechnology. He has also served as Senior Agricultural Adviser to the Canadian Bilateral Aid Agency (CIDA), the Food and Agricultural Organization (FAO) of the United Nations; and has consulted for many international development agencies including United Nations Development Programme (UNDP), the World Bank; and many international philanthropic foundations, including the Rockefeller and Hitachi Foundations. He has published internationally-recognized Annual Reviews on the Global Status of GM crops, and their contribution to global food, feed, fiber, and fuel security, since 1996 when GM crops were first commercialized.





JARRETT, Stephen

Former, Principal Adviser, UNICEF Supply Division

Stephen Jarrett is Global Director, and Gracious International Shanghai Former UNICEF Principal Adviser. Jarrett recently retired after completing 38 years of service with UNICEF, which included diverse field assignments in Latin America in the 1970s, and as Senior Health Officer in China in the 1980s supporting the achievement of universal child immunization. He has worked as Senior Adviser to UNICEF on health systems strengthening, with a focus on drug supply systems in sub-Saharan Africa and other low-income countries. More recently he was in the Management Team of UNICEF Supply Division for 12 years, engaged in strategic issues related to supply support to children's programs in 160 countries with over \$1 billion procurement value annually. Before retiring, Jarrett coordinated the UNICEF response to the 2008 global food crisis and its impact on children and vulnerable populations, working in close collaboration with the United Nations Secretariat and other United Nations agencies. Additionally, he led UNICEF efforts for scaling up the global supply of ready-to-use therapeutic foods. Currently, he is consultant to UNICEF on strategic planning related to vaccines and immunization. He is associated with a company in Shanghai developing smart fabrics repelling insects and eliminating bacteria. He continues to provide advice on child nutrition and is on the Board of Directors of a health products franchising non-profit organization (www.livinggoods.org). Jarrett holds a Bachelor of Sciences in Civil Engineering from Southampton University, UK and a Masters in Public Health from Columbia University, New York, USA. He has published numerous articles on issues concerned with immunization, health services strengthening and public health ethics. He is a guest lecturer at Johns Hopkins University School of Public Health, USA, and a regular guest speaker at BioVision, Alexandria Library, Egypt.

JOHNSON, Brian

Director, DAH Associates and Chair, the BBSRC Synthetic Biology Group

After pursuing research in population genetics and ecology, Brian Johnson was until 2006 Senior Advisor on Biotechnology and Genetics to the British statutory nature conservation agencies and was Head of the Agricultural Technologies Group at English Nature (now “Natural England”), the UK government’s advisors on nature conservation. He has been closely involved in the debate on the potential effects of gene technologies on biodiversity and other aspects of the environment. He has written numerous articles in the scientific and popular press about biosafety, conservation and environmental effects of biotechnology. Brian Johnson has been a member of several advisory committees concerned with biological research, regulating the release of GMOs into the environment, and the development of more sustainable farming methods. In 2002, he was member of the UK GM Science Review Panel. In 2004, he chaired the panel reviewing biosafety within CGIAR. He was a lead author of the International Assessment of Agricultural Science and Technology for Development, an initiative from the World Bank/UNEP. Until 2009, Brian Johnson was an active member of the NERC Peer Review College and helped to steer the NERC Environmental Genomics Programme. Over the past 10 years, he has developed an interest in the ethics and societal implications of gene technologies, and has published several papers on the subject. From 2007 to 2010, he was Deputy Chair of the BBSRC Science in Society Panel and he chaired the steering group of the recent EPSRC/ BBSRC Synthetic Biology Public Dialogue.





KENT, Alastair

Director, Genetic Alliance UK

Alastair Kent is the Director of the Genetic Alliance UK (formerly Genetic Interest Group) whose aim is to improve the lives of people affected by genetic conditions by ensuring that high quality services and information are available to all who need them. Prior to joining Genetic Alliance UK, Alastair worked for a number of voluntary organizations on issues concerning policy, service development and disabled people.



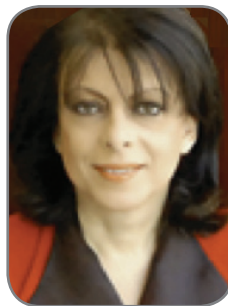
KILAMA, John

Director, Kilama International Consulting Group

John Kilama is the Director and Founder of Kilama International Consulting Group, LLC (KICG) and an expert in policy development on healthcare, biotechnology, bioprospecting, and intellectual property. He has experience in pharmaceutical, and agrochemical chemistry. He is one of the founders of the Global Bioscience Development Institute (GBDI). He developed GBDI's biodiversity, biotechnology and law training curricula used in training professionals in Africa and other developing countries. Kilama is also an expert in the evaluation of technical assistance and international trade regulations for their impact on the economic development of developing countries. KICG's mission is to facilitate good management of IPR at institutional and national levels in emerging markets. Kilama facilitated several effective partnerships between multinational corporations and institutions (private and public) in developing nations. Born in Uganda, John 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. Kilama worked in DuPont as a Senior Medicinal Research Chemist and holds several patents. He previously served on the Board of Directors of Medicines360; Public Private Partnership for Health (PPPH); Global Forum for Health Research, Geneva, Switzerland; and Public Interest Intellectual Property Advisors, Inc, Washington, DC, USA. He currently serves on the Board of Directors of Pytica, Inc, as an Advisor to Global Health at the Children Hospital of Philadelphia, and Scientific Advisor to the Institute of One World Health and the International Organization for Chemistry in Development (IOCD), Belgium.

KOTB, Malak

Professor, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati



Malak Kotb received her BS and MS in Biochemistry from Ain Shams University. In 1977, she was chosen by Rotary International to be Goodwill Ambassador to the USA. She obtained her PhD in Immunology and Biochemistry from UTHSC and St. Jude Hospital then completed postgraduate work at Duke. Before moving to Ohio in 2008 to assume her position as Chair of Molecular Genetics, Biochemistry and Microbiology, she was Endowed Professor of Translational Resident at UTHSC where she established and directed research programs, including the immunogenetics, translational and biodefense programs. She directed the Mid-south Countries for Biodefense and Security, an advanced biotechnology research and education Center dedicated to improving preparedness in natural or deliberate biological crises or pandemics. Kotb assumed many national and international leadership roles, chaired NIH study sections and was consultant to several international entities to optimize preparedness against catastrophic diseases. A Fulbright scholar, Kotb runs systems biology, translational research programs, integrating immunology, genetics, genomics and bioinformatics. She applies genetherapy and uses nanoparticles to target cancer. Kotb authored 165 papers. She has been invited to speak across the globe; participating in and chairing numerous conferences, grant review panels and NIH study sections. She has contributed to securing US funding for research in Egypt. Kotb now directs the Midwest Center for Emerging Infectious Diseases. She has been Senior Research Career Scientist at the VA Medical Center since 1999. Her work focuses on applying holistic systems genetics and biology approaches to discover disease-modifying genes and pathways. She uses genetically diverse models, bioinformatics and computational tools to elucidate interactive pathways that modulate disease susceptibility and outcomes among genetically diverse patients. This information focuses the discovery of disease roadmap to translate research findings from bench to bedside and deliver targeted, customized medical care.



KOURILSKY, Philippe

Professor of Molecular Immunology, College de France

Philippe Kourilsky, biologist, graduated from the Ecole Polytechnique. He is Professor and Chair of Molecular Immunology at the College de France since 1998, as well as a member of the French Academy of Sciences. In addition, he has taken on the position of Chairman of the Singapore Immunology Network (SIgN) since its creation in 2006. He currently sits on the Board of the Veolia Environment company in which he chairs the Innovation Committee. From 1992 to 1995, he was the Director of Research of Pasteur Merieux Connaught (now Sanofi Pasteur), a leading vaccine company. From 2000 to 2005, he was appointed Director General of the Pasteur Institute and he chaired the International Network of Pasteur Institutes. Philippe Kourilsky has written two reports for the French Government; one about the "Precautionary Principle" in 1999, and the other about problems related to infectious diseases in developing countries in 2005. He is the author of some 350 publications in international scientific journals and of several books, more recently "Le temps de l'altruisme" (Odile Jacob, 2009) and "Le manifeste de l'altruisme" (Odile Jacob, 2011).



KRATTIGER, Anatole

Director, Global Challenges Division, World Intellectual Property Organization - WIPO

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 a 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'.

LACHMANN, Sir Peter

Emeritus Professor of Immunology, University of Cambridge

Sir Peter Julius Lachmann, MBBChir PhD ScD (Cantab) FRCP FRCPath FRS FMedSci Emeritus Sheila Joan Smith Professor of Immunology, University of Cambridge, trained in biochemistry and medicine at Cambridge and University College Hospital, graduating MBBChir in 1956. He was a postgraduate student in immunology with Robin Coombs in Cambridge and with Henry Kunkel at Rockefeller University and obtained his PhD in 1962 for a thesis on the Pathogenesis of Systemic Lupus Erythematosus. He was Assistant Director of Research in the Department of Pathology in Cambridge (1964-1971) and Foundation Professor of Immunology at the Royal Postgraduate Medical School (1971-1975). Since 1976, he has worked in Cambridge as Director of the MRC Molecular Immunopathology Unit and Professor of Immunology. He retired in 1999 but ran a laboratory till 2005 and will reopen a small lab in 2011. He is Fellow of Christ's College and Honorary fellow of Trinity College. His principal research interests have been in the immunochemistry, biology and genetics of the complement system. He is currently trying to bring to clinical application a method of down-regulating the complement feedback loop, over activity of which is the main predisposing factor to age related macular degeneration. He was Founding President of the UK Academy of Medical Sciences (1998-2002), Biological Secretary of the Royal Society (1993-1998), and President of the Royal College of Pathologists (1990-1993); and served on UNESCO's International Bioethics Committee (1993-1998). In these capacities, he became involved with the ethical and policy aspects of medical science. He has kept bees for over thirty years and this hobby has played a large part in stimulating the interest in genetic and cultural evolution.





LAPORTE, Ronald

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

Roland Laporte is Professor of Epidemiology at the Graduate School of Public Health, University of Pittsburgh. He obtained an MS in Psychology in 1975, a PhD in Cognitive Psychology in 1977, and a Masters degree in Epidemiology in 1981. He has 531 publications in Epidemiology, Global Health, and the Internet. He was First Distinguished Teacher at the Graduate School of Public Health, University of Pittsburgh in 1989. He obtained the Lillienfeld Award, APHA for life time achievement in education. He was Director of Disease Monitoring and Telecommunications at the WHO Collaborating Center, Department of Epidemiology. He was Developer and PI of the WHO Multinational Project for Childhood Diabetes, involving 155 centers in 70 countries. He developed the Global Health Network in 1994. He worked on numerous funded national and international projects from NIH and NASA. He obtained the Kelly West Diabetes Epidemiology Award from the American Diabetes Association. He developed the SuperCourse which involved 56,000 faculties from 174 countries.

LEÓN-CARRIÓN, José

Director, Human Neuropsychology Laboratory,
Facultad de Psicología, University of Seville

José León-Carrión has a BA in Philosophy and a PhD in Psychology from the Universidad Autónoma de Madrid, Spain. He is Professor of Neuropsychology, and Director of Human Neuropsychology Laboratory at University of Seville, Spain. He is Director of RDI Department at the Center for Brain Injury Rehabilitation (C.RE.CER.), Seville. He is Executive Committee Vice-Chair, International Brain Injury Association (IBIA); and Founding Member World Academy for Multidisciplinary Neurotraumatology. He is also Member of the European Brain Injury Society and various journal editorial boards; reviewer and consultant, US Department of Defense TBI Grant Program; recognized internationally for over two decades of work in rehabilitation and brain injury. He is an international expert of consciousness studies and rehabilitation of patients in coma, vegetative state, minimal conscious state, locked-in syndrome and severe neurocognitive disorders; investigator in studies on TBI rehabilitation; developed neuropsychological assessment tools such as Computerized Sevilla Neuropsychological Test Battery, Luria's Memory Words-Revised Test and Neurologically-related Changes in Personality Inventory (NECHAPI); and developed rehabilitation for individuals with disabilities. He is author of many textbooks and articles in neuroscientific journals and books. His recent books include "Neuropsychology and the Hispanic Patient", "Behavioral Neurology in the Elderly", "Brain Injury Treatments: Theory and Practices", and "Evaluación Clínica Neuropsicológica de la Afasia Puebla-Sevilla". He is author and co-author of recent articles; such as, The Infrascanner, a handheld device for screening in situ for the presence of brain haematomas, Brain Injury (2010); Unresponsive Wakefulness Syndrome, a new name for the vegetative state or apallic syndrome, BMC Med, 2010; Accuracy of the S100 β Protein as a marker of Brain Damage in Traumatic Brain Injury, Brain Injury, (in press); and Time and Course of Functional Rehabilitation after Deep Traumatic Coma, JRMEd (in press).





LINKOV, Faina

Research Assistant Professor, University of Pittsburgh

Faina Linkov is a Research Assistant Professor of Obstetrics, Gynecology, and Reproductive Sciences at the University of Pittsburgh School of Medicine, Magee-Womens Research Institute. She holds a PhD in Epidemiology, an MPH in Community and Behavioral Health Sciences, and a Certificate of Advanced Studies in Global Health from the University of Pittsburgh. Her current research activities concentrate on the use of biological tumor markers to detect malignancies at early stages and on the link between obesity and cancer. Specifically, she is looking at how weight reduction through exercise or bariatric surgery might influence decrease in cancer risk. Faina Linkov served as a peer reviewer for the British Medical Journal (BMJ), Journal of Medical Internet Research, and others. She published over 70 research papers and chapters in the fields of cancer epidemiology and global health. In the past twelve years, Faina Linkov has worked with Professor Ronald LaPorte in the Global Health Network Supercourse Project (www.pitt.edu/~super1), specifically focusing on issues related to quality control of online materials. She is one of the core developers of the Supercourse of Science Project, hosted at the Library of Alexandria. 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. Faina Linkov's efforts within the Supercourse focus on bringing the Supercourse model to Central Asian countries.

LOWERY DERRYCK, Vivian

President, the Bridges Institute

Vivian Lowery Derryck is the president and CEO of the Bridges Institute, a non-profit organization, she launched at Harvard University in 2009 to strengthen African governance and leadership. Prior to her Harvard experience, she was Senior Vice-President and Director of Public-Private Partnerships at AED, a former \$620 million US based non-profit organization working on social development in the US and more than 60 countries worldwide. A veteran foreign affairs specialist, she has held numerous positions in both government and the non-profit private sector. In addition to her Senate-confirmed service as Assistant Administrator for Africa (the senior government official who directs over \$1 billion annually in foreign assistance to Africa) at the US Agency for International Development (USAID), she has served as Deputy Assistant Secretary at the US Department of State, EVP of the National Council of Negro Women, VP of the National Democratic Institute for International Affairs, President of the African-American Institute and Senior Advisor of the Nigeria-based Africa Leadership Forum. She taught at New York City Technical College and the University of Liberia. Throughout her career she has concentrated on political participation, leadership development, gender equity and public-private partnerships in Africa, Asia and the Caribbean. A graduate of Chatham College (BA), with a Master's in International Affairs from Columbia University and a certificate in Advanced Leadership Studies from Harvard University, Derryck is listed in Who's Who, is a member of the Council on Foreign Relations and the Bretton Woods Committee, and is a Fellow of the World Academy of Art and Science. She serves on non-profit boards including the Jane Goodall Institute, Femmes/Afrique/Solidarité and the Sirleaf Market Women's Fund. A 2011 Purpose Prize Fellow, other awards include the Guggenheim Humanitarian Award, NCNW Martin Luther King Service Award, UNICEF Achievement Award and an Honorary Doctorate.





MADKOUR, Magdy

Professor, Faculty of Agriculture, Ain Shams University

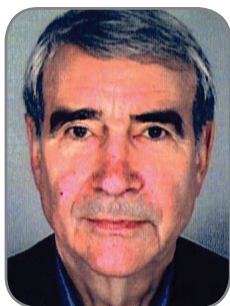
Magdy Madkour is the Head of Biotechnology at the Arid Lands Agriculture Research Institute, Ain Shams University, Egypt; and Editor in Chief of the Journal of Agriculture and Food Security, BioMed Central. Madkour was the Chairman of the Technical Committee, Agriculture Research for Development Fund (ARDF), Agriculture Research and Development Council, Ministry of Agriculture; and Senior Advisor to the Bibliotheca Alexandrina. He served as the Assistant Director General for International Cooperation, ICARDA (2004-2006). Madkour obtained his PhD from the University of Wales, UK in Physiological Plant Pathology. He was appointed Professor of Plant Pathology, Alexandria University, Egypt (1982-1989); and Visiting Professor University of California, Davis (1989-1990). In 1990, he established the Agricultural Genetic Engineering Research Institute (AGERI-Egypt) and was 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 Presidential Gold Medal 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. Madkour authored 140 peer reviewed scientific publications and contributed with chapters in 7 international text books.

MAREI, Mona

Head, Tissue Engineering Laboratories, Faculty of Dentistry, Alexandria University



Mona Marei is Professor of Prosthetic Dentistry. She is Founder and Head of the Tissue Engineering Science and Technology laboratories, Alexandria University, Egypt. In 2011, she was elected President of the African-Material Research Society. In 2009, she was appointed a board member of the Higher Council of Industrial Technology, Ministry of Scientific Research, Egypt. In 2008, she was selected as a board member of the Permanent Scientific Higher Committee for Promotion in Dentistry, Ministry of Higher Education, Egypt; and in 2006, as a Visiting Professor in the National Specialized Council for Education, Scientific Research and technology, the Genetic Engineering Committee at the Presidential Office. Marei is an international advisory board member in the Africa Renaissance Institute of Science and Technology (<http://www.arist-edu.org>), Burkina Faso; the Technology Innovation Scientific Committee, University of Bambey-Senegal; and the International Material Institute for New Functionality, GlassLehighUniversity, USA (<http://www.lehigh.edu/imi>). She served as Vice-president of Tissue Engineering Society International for emerging countries (<http://www.termis.org>). From 2003 to 2005, she was the member-at-large for emerging countries in the Tissue Engineering and Regenerative Medicine International Society.



MARTIN, Jacques-François

President and CEO, Parteurop

Jacques-Francois Martin is the Chairman and CEO of Parteurop Biographical Information. In 1976, Martin joined the Institut Mérieux as Vice President of Sales and Marketing, where he largely contributed to the international expansion of Mérieux. He was named CEO in 1988, and successfully negotiated with the Government of Canada the acquisition of Connaught Laboratories. In 1991, Martin set up Parteurop; a biotech consulting company based in Lyon, France. From 1996 to 1999, he was a Board Member of the French National Institute of Health (INSERM). From 1994 to 1997, Martin served as the Chairman of the Biologicals 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 1997 to 2003, he was a member of the Board of the International AIDS Vaccine Initiative (IAVI). From 2000 to 2005, Martin was the first President and CEO of the Vaccine Fund. He led the Fund's efforts to provide lifesaving vaccines and other immunization program support to low-income countries. In this capacity, he was also a member of the Board of the Global Alliance for Vaccines and Immunization (GAVI). He is Chairman and CEO of Mymetics (Epalinges, Switzerland). He is also a member of the board of several life sciences companies. Martin holds an MBA from HEC, Paris, France. Martin is a member of the French Academy of Technologies. He is an officer in the French Order of Merit.

MCNEELY, Jeffrey

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

Jeffrey McNeely has been working internationally since 1968, with activities/missions across 85 countries. He has written/edited over 40 books, and has published over 500 scientific and technical articles. He serves on the editorial board of 12 journals. Currently, he is AD White Professor-at-Large at Cornell University, Chair of the IUCN Red List Committee, Chair of the Policy Committee of the Society for Conservation Biology, Member of the UNEP International Resources Panel, and Member of the Scientific and Technical Council of the International Risk Governance Council. He spent 7 years in Thailand, 2 years in Nepal, and 3 years in Indonesia, working on a wide range of conservation issues. He was Secretary-General of the 4th World Congress on Protected Areas (Caracas, Venezuela, 1992) and is a Member of the Order of the Golden Ark. He started working at IUCN in 1980 as Executive Officer of the Commission on National Parks and Protected Areas, later becoming Program Director, Deputy Director General, and then Chief Scientist until his retirement in 2009. He is an Honorary Life Member of the Nature Conservancy. He holds a degree in Anthropology from the University of California at Los Angeles (UCLA). More recently, he became former Co-founder of Ecoagriculture Partners and its Founding President.

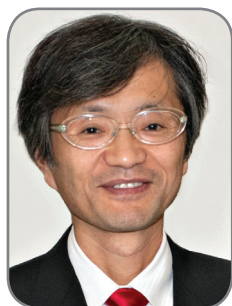




MURENZI, Romain

Executive Director, the Academy of Sciences for the Developing World (TWAS)

Romain Murenzi is the Executive Director of the Academy of Sciences for the Developing World (TWAS), in Trieste, Italy. Murenzi was born in Rwanda and raised in Burundi. After graduating from the National University of Burundi in 1982, he taught mathematics in high school for three years before being awarded a fellowship for doctoral studies from the Catholic University of Louvain, where he earned his Doctorate Degree in physics in 1990. Murenzi subsequently became a Postdoctorate Researcher at the Center for Research and Advanced Training in Scientific Computation in Toulouse, France, and a Professor of Physics at Clark Atlanta University in the United States. Between 2001 and 2009, he served as the Minister of Science and Technology in Rwanda. He returned to the United States in 2009 to assume a joint appointment as Director of the Center for Science, Technology, and Sustainable Development at the American Association for the Advancement of Science (AAAS) in Washington, DC, and Visiting Professor at the University of Maryland's Institute of Advanced Computer Studies in College Park, Maryland. He was appointed Executive Director of TWAS in April 2011. Murenzi's major areas of research are multidimensional continuous wavelet transforms to quantum mechanics, and image and video processing.



NAKAMURA, Yoshihiko

Professor, Department of Mechano-Informatics, University of Tokyo

Yoshihiko Nakamura received his Doctorate of Engineering from Kyoto University in 1985. He was former Assistant Professor at Kyoto University (1982-1987), then Assistant and Associate Professor at the University of California, Santa Barbara (1987-1991). Since 1991, he has been with the University of Tokyo, Japan; and is currently Professor in the Department of Mechano-Informatics. Humanoid robotics, cognitive robotics, neuro musculoskeletal human modeling, biomedical systems, and their computational algorithms are his current fields of research. He is Fellow of Japan Society of Mechanical Engineers, Fellow of Robotics Society of Japan, Fellow of IEEE, and Fellow of World Academy of Arts and Science. Currently, Nakamura serves as President of the International Federation for the Promotion of Mechanism and Machine Science (IFToMM), (2012-2015). Nakamura is Foreign Member of the Academy of Engineering Science of Serbia and Montenegro, and TUM Distinguished Affiliated Professor at Technische Universität München.

NAKHLA, Rafik

Vice President, Human Resources and Administration,
Projacs International

Rafik Nakhla is a pharmacist holding a Masters' Degree in Quality Management from the University of Wolverhampton, UK. After five years of training and experience in sales in the pharmaceutical industry, he became a Lecturer in Sales and Marketing at the AUC and a Visiting Lecturer in the AAGSB. In October 2002, he became Training and Human Resources Consultant at the Bibliotheca Alexandrina (BA). He is also former Director of Personnel. He contributed in several international conferences at the BA; such as, 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 BioVisionAlexandria in 2004. He participated in the pre-conference workshop of the Arab Reform Forum and the Education Reform Forum. He is member of the 2005 Board of Examiners of the National Award for Excellence. Some of his publications include 'Reform Issues in Continuous Education and Vocational Development', 2005; 'Biotechnology a Controversial Technology', 2004; 'An Overview of BioVisionAlexandria 2004', 2004; and 'Biology Curriculum in Secondary Schools in Egypt', 2003.





NWANZE, Kanayo

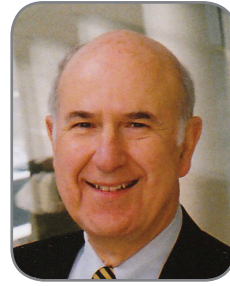
President, International Fund for Agricultural Development (IFAD)

Kanayo Nwanze began his term as IFAD's fifth President on 1 April 2009. A Nigerian national, Nwanze has a strong record as an advocate and leader of change and a keen understanding of the complexity of development issues. He brings to the job over 30 years of experience across three continents in poverty reduction through agriculture, rural development and research. Under Nwanze's leadership, IFAD has stepped up its advocacy efforts to ensure that agriculture is a central part of the international development agenda, and that the concerns and needs of smallholders and other poor rural people are recognized by governments around the world. During Nwanze's tenure, IFAD has increased the number of out-posted country program managers and expanded the number of country offices. This increased country presence, and the direct supervision by IFAD of its projects, will help make them more effective. Nwanze served as IFAD's Vice-President for two years before taking the organization's helm. Prior to that, he was Director-General of the Africa Rice Center for a decade. Nwanze was instrumental in introducing and promoting New Rice for Africa (NERICA), a high-yield, drought- and pest-resistant rice variety developed specifically for the African landscape. He also transformed the Center from a West African association to an Africa-wide organization with an international reputation for excellence. In addition, Nwanze has held senior positions at a number of research centers affiliated with the Consultative Group on International Agricultural Research (CGIAR) in Africa and Asia, and he was instrumental in the establishment of the Alliance of CGIAR Centers. Nwanze earned a Bachelor of Science degree in Agricultural Science from the University of Ibadan, Nigeria, in 1971, and a Doctorate in Agricultural Entomology from Kansas State University, United States, in 1975.

OMENN, Gilbert

Professor of Medicine, Genetics, and Public Health,
University of Michigan

Gilbert Omenn, MD, PhD, is Professor of Medicine, Genetics, Public Health, Computational Medicine and Bioinformatics at the University of Michigan. His research is focused on cancer proteomics, biomedical informatics, and science policy. Previously, he was Professor of Medicine and Dean of Public Health at the University of Washington, (1982-1997); Associate Director, Office of Science and Technology Policy and Office of Management and Budget for President Carter, (1977-1981); and Howard Hughes Investigator. He is member of the Institute of Medicine/National Academy of Sciences and American Academy of Arts and Sciences, former President of the AAAS, and Director of Amgen Inc. He is author of 473 research papers and scientific reviews, and author/editor of 18 books (www.med.umich.edu/omenn). He is Co-leader of the Science Supercourse based at Bibliotheca Alexandrina. He earned a BA from Princeton, an MD from Harvard, and a PhD in Genetics from the University of Washington.



OMER, Aftab

President, Meridian University

Aftab Omer, PhD, is President of Meridian University, USA. He is a Fellow of the World Academy of Arts and Sciences as well as the International Futures Forum.





OMI, Koji

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

Koji Omi was born in 1932, in Gunma Prefecture, Japan. After graduation from Hitotsubashi University (Commerce), he joined the Ministry of International Trade and Industry (MITI) in 1956. On assignment abroad with MITI, he served as Consul at the Japanese Consulate in New York from 1970 to 1974. Koji Omi became a reputable person in New York for his proactive role in acquiring up-to-date overseas energy related information during the first oil shock in 1973. Returning to Japan, he successively served as Director of the South Asia and Eastern Europe Division, Trade Policy Bureau; as Director of the Small Enterprise Policy Division, Small and Medium Enterprise Agency (S & MEA); as Director of the Administrative Division, the Science and Technology Agency; and as Director-General of the Guidance Department, S & MEA. In 1982, Koji Omi resigned from MITI to run in the House of Representatives (lower house) elections. First elected in 1983, he served the House for a total of 26 years, until August 2009. He occupied the posts of Parliamentary Vice-Minister for Finance; Director-General of the Commerce and Industry Policy Bureau, Liberal Democratic Party (LDP); Director-General of the Science and Technology Policy Bureau, LDP; Chairman of the Standing Committee on Finance; Director-General of the Election Bureau, LDP; and Acting Secretary-General, LDP; three times as Cabinet Member: Minister of Finance (September 2006 – August 2007); Minister of State for Science and Technology Policy, and for Okinawa and Northern Territories Affairs (2001-2002); and Minister of State for Economic Planning (1997-1998). Koji Omi is considered a key political figure and one of the most influential in the field of science and technology in Japan. One of his achievements included the central role he played in enacting the Fundamental Law of Science and Technology in 1995. This law contributed greatly toward making Japan a science and technology-oriented nation. As Minister of State for Okinawa and Northern Territories Affairs, and for Science and Technology, he advocated for and was very influential in promoting the founding of the Okinawa Institute of Science and Technology, regarded as an international and interdisciplinary graduate university with a “best-in-the world” concept in mind. He also founded the Science and Technology in Society (STS) forum with the aim of building a worldwide network among scientists, policymakers and business people. The STS forum has been successfully held annually in Kyoto, Japan since 2004, to discuss the “lights and shadows” of science and technology for the sake of humankind. Moreover, Koji Omi is Chairman of Tempu Society, a philosophical organization that actively carries out “The Way of Mind and Body Unification” which is the teaching of the late founder, Nakamura Tempu, who overcame tuberculosis by practicing yoga in India.

PAES DE CARVALHO, João

Principal, BiznessBrazil

João De Saint Brisson Paes De Carvalho holds an MBA from Amos Tuck School and is completing an MSc in Environmental Engineering. He has ample working experience in general management, business development, finance, research and development management and team-building; in the chemical, plastic, electronic, biotech, finance and consulting industries. Today, he is the Principal of BiznessBrazil, consulting on finance, international trade and business in general. He takes particular interest in the depletion of resources and on the recycling of waste.



PAGLIANO, Daniel

Director, Institute of Applied Biosciences

Daniel Pagliano is Uruguayan. He has a degree in Agronomy from the University of the Republic, Uruguay (1985) and a Master of Sciences in Molecular Biology, from the Free University of Brussels, Belgium (1989). He is Director of the Institute of Applied Biosciences, School of Agrarian Sciences, Universidad de la Empresa (UDE); Director of Bioceltis S.A., a company in the area of plant and animal genetics services; Director of the Latin American Federation of National Associations of Biotechnology Companies (FELAEB); and Director of “Agro, Educación y Salud”, an NGO that promotes the uses of fruits and vegetables. He is former Director and Founder of Quiniman S.A., an animal biotechnology company producing bovine embryos; Calister S.A., a company which produces rhizobia inoculants (www.calister.com.uy); Biotec Plaza S.A., a company of Zonamerica Holding which administrates Zonamerica Business and Technology Park (www.zonamerica.com); the REDBIO Foundation, an NGO which nucleates 650 biotechnology laboratories in Latin America (www.redbio.org); and Nidetec Holding, dedicated to plant genetics, micropropagation and the production of commercial plantations of exportable fruits. He is former Professor of Microbiology in the Faculty of Agronomy, University of the Republic, Uruguay. He is also former Scientist and Project Leader of the National Institute of Agricultural Investigation (www.inia.org.uy). He is Fellow of the Eisenhower Fellowship (www.efworld.org), the European Union and UNESCO.





PAPAZOV AMMAN, Biljana

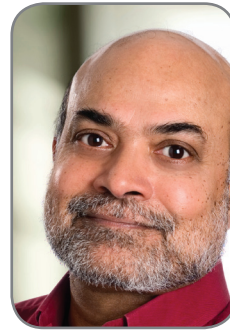
Dr. Phil. Nat., University of Bern

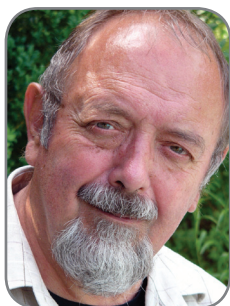
Biljana Papazov Amman was born in 1948 in Novi Sad, former Yugoslavia. She grew up in Bulgaria, immersed in the Slavic tradition with a profound knowledge of the culture and the relevant three languages; Bulgarian, Serbo-Croat and Russian. Her schooling was in Sofia, Moscow and again Sofia, followed by studies at the Technical University for Forestry in Sofia, where she specialized in landscape architecture. After five years of employment in the Planning Department of "Sofproject", she felt the need for a complete change under the stagnating political atmosphere, and made the decision to drastically alter her path by switching to philosophy where she obtained her doctorate in the Department of Methodology of Science at the Philosophical Institute of the Bulgarian Academy of Science. In 1987, she was invited by the Swiss government as a guest scientist. Subsequently she stayed, thus enabling her to further develop her unique and sensitive approach between Eastern and Western societies. As her awareness and knowledge of Western society developed, she sought to integrate apparently incompatible worlds; East and West, religion and science, rich and poor. As a member of the program committee, she helped coin the first leitmotiv of Academia-Engelberg and still challenges her genuine passion for finding the way towards a better world. She also participated by teaching in activities of the Federal School of Technology in Zurich and at the University of Bern about discursive methods, and shared her views in international conferences in Montpellier on the dispute on genetic engineering, and lately in the Darwin Now conference at the Bibliotheca Alexandrina, organized by the British Council. She has numerous publications on Science and Humanity, Scientific Knowledge, Social Ecology, New Approach to Understanding the World, Battle on Objectivity within Society: The Female Dilemma.

PINGALI, Prabhu

Deputy Director, Agricultural Development Program,
Bill and Melinda Gates Foundation

Prabhu Pingali is Deputy Director of the Agriculture Development Division, Bill and Melinda Gates Foundation. He was Director of the Agricultural and Development Economics Division of the Food and Agriculture Organization (FAO) of the United Nations, from 2002-2007. Pingali was elected to the US National Academy of Sciences as a Foreign Fellow in May 2007. He was the President of the International Association of Agricultural Economists (IAAE) during 2003-2006. He was elected Fellow of the American Agricultural Economics Association in 2006 and of the International Association of Agricultural Economists in 2009. He was named the “2010 Outstanding Alumnus” of North Carolina State University. Pingali has three decades of experience analyzing food, agriculture and development policy in Asia, Africa and Latin America. An Indian national, he earned a PhD in Economics from North Carolina State University in 1982. He was Director of the Economics Program at CIMMYT, Mexico during 1996-2002. Prior to joining CIMMYT, he worked at the International Rice Research Institute at Los Baños, Philippines from 1987 to 1996 as an Agricultural Economist, and prior to that at the World Bank’s Agriculture and Rural Development Department from 1982 to 1987 as an economist. Prabhu Pingali has authored ten books and over 100 referred journal articles and book chapters on food policy, technological change, productivity growth and resource management in the developing world. He has received several international awards and recognitions for his work.





POTRYKUS, Ingo

Professor Emeritus, Institute of Plant Sciences of the ETH Zurich

Ingo Potrykus obtained his PhD in Plant Genetics in 1968 from the Max-Planck-Institute for Plant Breeding Research, Cologne, Germany. From 1970 to 1974, he was Assistant Professor at the Institute of Plant Physiology, Stuttgart-Hohenheim. He was the Research Group Leader at Max-Planck-Institute for Genetics, Ladenburg-Heidelberg from 1974 to 1976.

He was the Research Group Leader at the Friedrich Miescher-Institute, Basel, Switzerland, from 1976 to 1986. He was Full Professor in Plant Sciences at the Swiss Federal Institute of Technology (ETH), Zuerich, from 1986 to 1999. His work included contributions to food security in developing countries, focusing on development and application of genetic engineering technology for and to "food security" crops; such as rice (*Oryza sativa*), wheat (*Triticum aestivum*), sorghum (*Sorghum bicolor*), and cassava (*Manihot esculenta*). In addition, he focuses on problem areas of disease and pest resistance, improved food quality, improved yield, improved exploitation of natural resources, and improved bio-safety. He is the inventor of "Golden Rice" and Chairman of the Humanitarian Golden Rice Board and Network. He has around 340 publications in peer-reviewed journals, and 30 patents. He received several awards and distinctions among which are KUMHO (ISPMB) Science International Award in Plant Molecular Biology and Biotechnology in 2000, the American Society of Plant Biologists (ASPB); Leadership in Science Public Service Award in 2001, Crop Science of America (CSSA); Klepper Endowment Lectureship in 2001; and the CSSA President's Award in 2002. He obtained an Honorary Doctor from the Swedish University of Agricultural Sciences in 2002, and the University of Freiburg, Germany 2007. He was listed among the "Top100 living contributor to biotechnology", elected by the peers of the journal "Scientist" in 2005. He was considered "The most influential scientist" in the area of Agricultural, Industrial, and Environmental Biotechnology for the decade 1995-2005, elected by the peers of Nature Biotechnology 2006. He was on the cover of TIME Magazine in July 31, 2000 and was elected to Academia Europaea, Pontifical Academy of Sciences, Hungarian Academy of Sciences, and Swiss Academy of Technical Sciences.

RABBINGE, Roelof

Professor, Wageningen University and Research Centre

Roelof Rabbinge is Chairman of the Science Council of the Consultative Group on International Agricultural Research, University Professor for Sustainable Development and Food Security at Wageningen University, former member of the Senate of the Netherlands Parliament, and Chairman of the Royal Institute of the Tropics. He led various missions and agricultural programs in developing countries and served as editor of several journals. He served on the Board of Trustees of six centers of the Group of International Agricultural Research; was Chairman of the International Rice Research Institute Board of Trustees (1995-2000), and co-Chair of the InterAcademy panel on Food Security and Agricultural Productivity in Africa. He is member of the Board of the Alliance for a Green Revolution in Africa and chairman of the National Science Foundation for Earth and Life Sciences. He serves on the boards of various international agribusiness firms.





RANGEL-ALDAO, Rafael

CEO, SummumNet Colombia, and Professor, Digital Molecular Medicine, Simon Bolivar University

Rafael Rangel-Aldao received his MD from the University Central of Venezuela, and his PhD from the Department of Molecular Biology, Albert Einstein College of Medicine, New York. He is currently Visiting Professor at Simon Bolivar University, and CEO of Internet Health Systems, Ltd, a biotechnology company of digital predictive medicine. Over a thirty-year span, Rangel-Aldao has served at leading positions in the academic sector as Professor of biotechnology at several major institutions of Venezuela (1979-2009); and in industry as Director of Research and Innovation of Empresas Polar (1987-2005), the largest food conglomerate of Venezuela and the third of Latin America. Rangel-Aldao has also published extensively in a wide range of fields from biochemistry, molecular biology, chemistry, plant physiology, and biomedical research, to food product development, agricultural research and plant breeding. Rangel-Aldao is author of several triadic patents in biotechnology applied to both the food and biomedical industries, and he is a frequent consultant of many governments of Latin America, as well as several agencies of the United Nations; such as WHO, WIPO, UNDP, among other multilateral entities of development. Rangel-Aldao is also on the editorial board of Electronic Journal of Biotechnology, Recent Patents on Biotechnology, Recent Patents on Bioengineering, Asian Journal of Science and Technology; and the Advisory Board of Agricultural and Food Security, Biomed Central, Springer Science and Business Media, International Journal of Current Research, and Revista Colombiana de Biotecnología. The work of Rangel-Aldao has received wide academic recognition, both nationally and internationally, with prizes and honors that range from Medicine to Biotechnology and Science writing for national newspapers and magazines.

SAUER, Francois

Founder and CEO, Trans Am Group

Francois Sauer, MD, MBA, and MS, is an expert in the domains of systems thinking, human relations, and international operations. As a catalyst, author, philosopher and scientist, his proven approaches are both innovative and pragmatic. Over the past three decades he has delivered organizational improvements and profitable business growths. He is Co-founder of SuperCourse, (<http://www.pitt.edu/~super1/>), a preventative healthcare network of over 56,000 scientists in 174 countries. He has served as a CEO, executive, adviser, and consultant to large enterprises as well as start-up ventures. His tenure has included Banamex (Health Services executive), AT&T and DEC, and CEO of Cerner International. As Senior Partner, Sauer addresses significant problems in the domain of real-time business intelligence and situational awareness at CrossInnovation (www.crossinnovation.net). He is also the CEO of Trans AM Group, an international organization that fosters relationships and trade between the USA, Canada and Mexico. Sauer is Board Member of Baker University, the International Relations Council Kansas City and former Board Member of the American Red Cross, Kansas City Chapter.





SERAGELDIN, Ismail

Director, Bibliotheca Alexandrina

Ismail Serageldin, Director, Library of Alexandria, Vice-President of the Institut d'Égypte (Egyptian Academy of Science), also chairs the Boards of Directors for each of the BA's affiliated research institutes and museums. 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, US National Academy of Sciences (Public Welfare Medalist), the American Philosophical Society, the Indian National Academy of Agricultural Sciences and the European Academy of Sciences and Arts. He is former Chairman, Consultative Group on International Agricultural Research (CGIAR, 1994-2000), Founder and former Chairman, Global Water Partnership (GWP, 1996-2000) and the Consultative Group to Assist the Poorest (CGAP), a microfinance program (1995-2000), and former Professor of the International Chair Savoirs contre pauvreté (Knowledge against Poverty), Collège de France, Paris; and Distinguished Professor at Wageningen University in the Netherlands. Serageldin has also served in a number of capacities at the World Bank, including Vice-President for Environmentally and Socially Sustainable Development (1992-1998), and for Special Programs (1998-2000). He has published over 60 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, and Master's degree and a PhD from Harvard University, and has received 29 honorary doctorates.

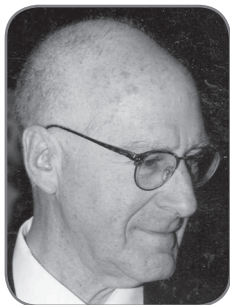
SHUBNIKOV, Eugene

Research Associate, Institute of Internal Medicine,
Novosibirsk

Eugene Shubnikov, MD, is a research scientist at the Laboratory of Clinical, Population and Prevention Studies of Therapeutic and Endocrine Diseases, Institute of Internal Medicine, Novosibirsk, Russia since 1986. He is also the developer of the Global Health Network Supercourse project in Public Health, Epidemiology and Internet, since 2000. He graduated from Novosibirsk



Medical Institute, Novosibirsk in 1985. He is Member of the European Association for the study of Diabetes since 1992. He has a Fellowship under the State Department Freedom Support Act at the University of Pittsburgh. He graduated from the School of Public Health, Department of Epidemiology, in 2000. He was Moderator of the Internet prevention program for former Soviet Union countries in the frame of Global Library of Lectures, Supercourse Project since 2000 (www.pitt.edu/~super1). He has been Developer of the BA Science Supercourse Project since 2008 (<http://ssc.bibalex.org/about/aboutsupercourse.jsf>). The BA Science Supercourse is a project designed to network scientists and to empower educators around the world through the sharing of scientific lectures online for free. It represents an extended scope to the initial Supercourse Project housed at the University of Pittsburgh. The current Science Supercourse is designed to expand beyond the topics of Health and Preventive Medicine, to encompass other areas of science, namely Environment, Agriculture and Computer Engineering in addition to Public Health. The project is an extended joint endeavor between the Library of Alexandria in Egypt and the WHO Collaborating Centre at the University of Pittsburgh. Science Supercourse does not grant degrees or certificates, but is designed to be a repository of resources for teachers, professors, and other educators to use as they see fit in their teaching of science. The BA Science Supercourse was launched at the Library of Alexandria in Egypt in January 2009, under the direction of Ismail Serageldin, the Director of the Library.



SLAUS, Ivo

President, World Academy of Art and Science

Ivo Slaus was born in Split, Croatia. He obtained a BA in Physics from the University of Zagreb in 1954, and a PhD in Physics from the University of Zagreb. He became a Professor of Physics in 1967; a Visiting Professor at UCLA, Duke, Georgetown, and Consultant at LANL, TRIUMF, Naval Research Laboratory. He is also Member of the Croatian Academy since 1977, Member of Academia Europaea since 1987, Fellow of the World Academy of Art and Science since 1994, Member of the Club of Rome since 1988, and President of the World Academy of Art and Science since 2011. He was also Member of the Parliament of Croatia during 2000-2003, a member of the European Leadership Network in 2009, Member of the Pugwash Council in 2002, and Member of the International Advisory Council Club of Rome in 2006.

SOLH, Mahmoud

Director General, International Center for Agricultural Research in Dry Areas - ICARDA



Mahmoud Solh, a Lebanese national, serves as Director General of the International Center for Agricultural Research in Dry Areas (ICARDA) since 2006. Solh received his PhD in Genetics from the University of California, Davis, USA, in 1978; and a BS and MSc in agronomy/plant breeding from the American University of Beirut (AUB) in 1972. He has been associated with international agricultural research and development in dry areas since 1972. Upon graduating from the AUB, he joined the Arid Land Agricultural Development Program of the Ford Foundation in the Near East, the predecessor of ICARDA. In 2006, Solh returned to ICARDA after four years as Director of Plant Production and Protection Division at the Food and Agriculture Organization of the United Nations (FAO). Prior to that, he had served ICARDA with distinction for nearly 16 years in various capacities; as Lentil Breeder, Regional Food Legume Breeder in North Africa, Regional Coordinator of the Nile Valley and Red Sea Regional Program, and Assistant Director General for International Cooperation. Throughout his career, his activities have focused on contributing to food security, improving the livelihoods of rural communities, and developing sustainable agricultural production systems; planning, implementation, and evaluation of agricultural research for development projects; capacity strengthening; and promoting North-South and South-South cooperation. He has vast experience in donor relations and fund-raising. Solh has an impressive record of scientific publications. He is the author of more than 120 publications/papers and articles including books and book chapters. His contribution to agricultural research and development has been recognized in several prestigious awards.



SUOJANEN, Christian

Director, Global Life Sciences, Valor Management, Co-Chairman, Tech Transfer Initiative (TTS Ltd)

Christian Suojanen is the Director of Global Life Sciences, Valor Management S.A., Switzerland; and Co-Chairman of the Tech Transfer Summit Initiative, TTS Ltd, UK. Christian is a strategic advisor to companies, VC funds, European and national government agencies in the biotechnology sector.

He served as Secretary-General of Europe's largest biotechnology association and maintains an extensive network of close contacts with senior life science investors, industry executives and policy makers across Europe and internationally. As a Member of the Executive Board and Executive Director of Business Development, Christian was instrumental in growing a start up into the leading pan-European provider of investment and partnering initiatives for VCs and entrepreneurial tech and biotech companies, launching major European initiatives for VC investment into biotechnology, and later industrial biotechnology. Christian is Co-Founder and Co-Chairman of the Tech Transfer Summit Initiative, and serves on several association boards and steering committees for biotechnology, innovation, and access to finance, and is on the Editorial Board of New Biotechnology (Elsevier).



VON BRAUN, Joachim

Director, Center for Development Research (ZEF Bonn), Department of Economics and Technical Change

Joachim von Braun is Director of the Center for Development Research (ZEF), and Professor for Economic and Technological Change at University of Bonn, Germany. His research addresses international development economics topics, economics of natural resources, poverty, science and technology, food policy, and trade. Previously, von Braun was Director General of the International Food Policy Research Institute (IFPRI) based in Washington, DC, USA (2002-2009); former President of the International Association of Agricultural Economists (IAAE) 2000-2003. Von Braun is Member of the German National Academy of Science and Engineering and Fellow of the American Association for the Advancement of Sciences.

WARWICK, Kevin

Professor of Cybernetics, School of Systems Engineering, University of Reading

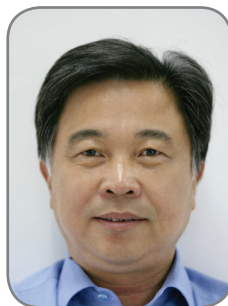
Kevin Warwick is Professor of Cybernetics at the University of Reading, England, where he carries out research in artificial intelligence, control, robotics and cyborgs. Kevin took his first degree at Aston University, followed by a PhD and research post at Imperial College, London. He has published over 500 research papers and been featured as the cover story on the US magazine, 'Wired'. He has been awarded higher doctorates (DSc) both by Imperial College and the Czech Academy of Sciences, Prague. He was presented with the Future of Health Technology Award in MIT, was made an Honorary Member of the Academy of Sciences, St. Petersburg, and received the IEE Senior Achievement Medal, the Mountbatten Medal, and in 2011, the Ellison-Cliffe Medal from the Royal Society of Medicine. In 2000, Kevin presented the Royal Institution Christmas Lecture, entitled "The Rise of the Robots".



YANG, Huanming

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

Huanming Yang is Co-founder and President of BGI, one of the major genomics centers in the world. He and his collaborators have made a significant contribution to the International HGP, HapMap, Cancer Genome and 1000 Genomes Projects, as well as to the Asian genomes, human pan-genome, ancient genomes, gut metagenomes, exomes and mytilome. BGI has also contributed to sequencing genomes of rice, potato, maize, pigeonpea, soybean, cucumber, cabbage, chicken, silkworm, panda, ants, naked mole rat, cynomolgus and Chinese rhesus macaque, CHO cell lines, SARS virus, lethal E. coli and many other microorganisms. Yang obtained his PhD from the University of Copenhagen, and received postdoctoral trainings in France and the USA. He 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, an academician of Chinese Academy of Sciences in 2007, a fellow of TWAS in 2008, and a foreign academician of Indian National Academy in 2009.





ZAKY, Yehia

Head, Academic and Cultural Affairs Sector,
Bibliotheca Alexandrina

Yehia Halim Zaky is a Professor of Radiology at the Faculty of Medicine, Alexandria University, and President of the Association of the French Speaking Physicians in Alexandria. He received his Doctorate in radio-diagnosis in 1974, attended the Institute Nationale des Sciences et Techniques Nucleaires, Saclay, France and received a DEA in Science from Paris, France in 1971. He is the former Dean of the Faculty of Medicine, Alexandria University.

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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’ Program; and foster discussion and collaboration between the four communities involved by offering networking opportunities during the Forum and beyond, through the Internet. One Head of State, 2 Prime Ministers, 15 Ministers, 35 Nobel Prize laureates, 9 European commissioners, 60 CEOs or directors of large multinational groups, 20 executive directors of international organizations (WHO, FAO, UNOP, etc), 30 NGO leaders (WWF, Médecins Sans Frontières, Oxfam, etc) and internationally recognized scientists have already participated in BioVision debates.

Join them at the next edition of BioVision during 24-26 March 2013 in Lyon, France.

More information on BioVision can be found on www.biovision.org.



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 1983 in Trieste, Italy, by a distinguished group of scientists from the South under the leadership of the late Nobel laureate Abdus Salam of Pakistan. It was officially launched by the Secretary-General of the United Nations in 1985. TWAS represents the best of science in developing countries. Its main mission is to promote scientific excellence and capacity in the South for science-based sustainable development. The Academy's strength resides in the quality and diversity of its members; who are internationally renowned scientists elected by their peers. TWAS Fellows, who live and work in developing countries, represent 85 percent of the memberships; TWAS Associate Fellows live and work in developed countries. The current membership count stands at 1,035 [13 December 2011]. A Council, elected every three years by TWAS members, is responsible for the Academy's broad policy and programmatic directions. The Secretariat, headed by an executive director and located on the premises of the Abdus Salam International Centre for Theoretical Physics (ICTP) in Trieste, Italy, assists the Council in the administration and coordination of the programs. In 1991, the United Nations Educational, Scientific and Cultural Organization (UNESCO) assumed responsibility for administering TWAS funds and personnel on the basis of an agreement signed by TWAS and UNESCO. In 2004, the Italian government passed a law that ensures a continuous financial contribution to the Academy's operations. Representatives of the Italian government and UNESCO are members of the TWAS Steering Committee, which meets annually to discuss financial matters. In addition to its strong links with UNESCO and ICTP, TWAS provides administrative support for the Organization of Women in Science for the Developing World (OWSDW, formerly TWOWS), the InterAcademy Panel (IAP) and the InterAcademy Medical Panel (IAMP). The Academy also maintains close ties with academies, research councils and ministries of science and technology in developing countries.

More information can be found on <http://twas.ictp.it/>



The Islamic Development Bank (IDB)

The Islamic Development Bank (IDB) is an international financial institution established in AH 1395 (CE 1975) in pursuance of the Declaration of Intent issued by the Conference of Finance Ministers of Muslim Countries held in Jeddah in AH 1393 (CE 1973). The main objective of the Bank is to foster economic development and social progress of member countries and Muslim communities, individually as well as jointly, in accordance to the principles of the Shari'ah (Islamic law).

IDB is headquartered in Jeddah, Kingdom of Saudi Arabia. The Bank also has regional offices in Rabat (Morocco), Kuala Lumpur (Malaysia), Almaty (Kazakhstan), and Dakar (Senegal) as well as field representatives in a number of member countries.

The membership of IDB has increased more than two-fold from 22 countries in AH 1395 to 56 countries in AH 1431 (CE 2010), spanning four continents: Africa, Asia, Europe, and Latin America. The Bank has evolved from a single entity into a group composed of five entities; namely, the Islamic Development Bank (IDB), the Islamic Research and Training Institute (IRTI), the Islamic Corporation for the Insurance of Investment and Export Credit (ICIEC), the Islamic Corporation for the Development of the Private Sector (ICD), and the International Islamic Trade Finance Corporation (ITFC).

IDB's capital comes from the contributions paid by member countries. The Bank's authorized capital has increased from Islamic Dinar (ID) 2 billion in AH 1395 (CE 1975) to ID 30 billion in AH 1431 (CE 2010), while the subscribed capital rose from ID 0.75 billion in AH 1395 to ID 17.5 billion in AH 1431, and the paid-up capital increased from ID 0.28 billion in AH 1396 to ID 4.03 billion in AH 1431.

Over the years, IDB maintained a strong financial position and credit worthiness, notwithstanding the recent global financial crisis. In AH 1431, Standard & Poor's reaffirmed its highest ratings for IDB for the ninth consecutive year: "AAA" for long-term and "A-1+" for short-term with Stable Outlook.

Since its inception, the Bank has been providing development assistance to both the public and private sectors of its member countries through three main operations: ordinary operations, comprising project financing and technical assistance; trade financing; and Waqf Fund (Special Assistance) operations. As of the end of AH 1431 (CE 2010), IDB Group's cumulative net financing for all three types of operations (for 6,895 operations) amounted to ID 49.7 billion (\$70.3 billion).

More information can be found on <http://www.isdb.org/>



Qatar Foundation (QF)

Qatar Foundation for Education, Science, and Community Development is a private, non-profit organization that aims to support Qatar on its journey from carbon economy to knowledge economy by unlocking human potential for the benefit of not only Qatar, but the world. Founded in 1995 by His Highness Sheikh Hamad Bin Khalifa Al-Thani, Amir of Qatar, QF is chaired by Her Highness Sheikha Moza bint Nasser.

QF carries out its mission through three strategic pillars: education, science and research, and community development. QF's education pillar brings world-class universities to Qatar in order to help build an education sector that enables young people to develop the attitudes and skills required for a knowledge economy. Meanwhile, its science and research pillar builds Qatar's innovation and technology capacity by developing and commercialising solutions through key sciences. Finally, its community development pillar helps foster a progressive society while also enhancing cultural life, protecting Qatar's heritage, and addressing immediate social needs in the community.

For a complete list of QF's initiatives and projects, visit <http://www.qf.org.qa>



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.

More information can be found on <http://www.idrc.ca>



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.

More information can be found on <http://www.stsforum.org/>



RDI/EU - Egypt Year of Science



Research, Development and Innovation (RDI) Program

In 2006, the Decade for Science and Technology (2007-2016) was announced to provide political support to the government's plans aiming at empowering the country's science, technology and innovation capabilities. Additionally, the Higher Council for Science and Technology was established with the objective of developing the country's strategic plan for scientific research, setting the vision and the priorities for science and technology, and ensuring the implementation of such plans. The Ministry of Scientific Research has undertaken multiple other initiatives, foremost among these is the initiation of the Research, Development and Innovation (RDI) Program funded with €11 million by the European Union as a first phase. In continuation to its success in May 2011, a second financial agreement was signed granting Egypt a further € 20 million to build on the experience accumulated during the implementation period of RDI Program – Phase 1 and to further realize a stronger impact to the development of an innovation culture for the benefit of the Egyptian industry and to foster the progressive movement of the Egyptian economy. RDI Program – Phase 2 will continue promoting research and innovation in specific sectors aligned with both national and EU priorities. The RDI Program – Phase 2 extends its activities to a regional dimension, allowing better networking with MPC/EU partners and enhances Egyptian participation in EU funded programs. The overall objective of Phase 2 is to further support the Egyptian government's efforts to enhance research, development and innovation performance, facilitating Egypt's move towards a knowledge-based economy.

More information can be found on <http://www.rdi.eg.net>

Delegation of the European Union to Egypt

Europe has a long-standing and important presence in Egypt in the fields of science, technology, research and innovation. Many EU Member States have bilateral inter-governmental and inter-institutional cooperation agreements with Egypt. Over the past years, European and Egyptian scientists have been increasingly working together in the context of bilateral projects or multilateral research programs.

With the Year of Science and Innovation 2012, we hope to extend the EU-Egypt partnership with more intensive cooperation in research and innovation.



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For more information, visit: www.britishcouncil.org.eg

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Sanofi has core strengths, with 6 growth platforms: emerging markets, vaccines, consumer healthcare, diabetes treatments, innovative products and animal health. Through the acquisition of Genzyme, Sanofi has reinforced its expertise in biotechnology and rare diseases.

With our global footprint and proven commitment to improving access to innovative medicines and healthcare, we work tirelessly to make a difference to people's lives every day.

For more information, visit: <http://www.daad.de/en/>

DAAD The German Academic Exchange Service (DAAD)

The German Academic Exchange Service (DAAD) is the largest funding organization in the world supporting the international exchange of students and scholars. Since it was founded in 1925, more than 1.5 million scholars in Germany and abroad have received DAAD funding. It is a registered association and its members are German institutions of higher education and student bodies.

The DAAD runs over 250 programs, through which it funds more than 74,000 German and foreign scholars worldwide per annum. These programs range from semesters abroad for undergraduates to doctoral programs, from internships to visiting lectureships, and from information-gathering visits to assisting with the establishment of new universities abroad. It supports the international activities of German institutions of higher education through marketing services, publications, the staging of events and training courses. The DAAD is proud of its large international network with 14 regional offices and 50 information centres worldwide. The DAAD has been present with an office in Cairo for more than half a century. For more information, visit: <http://www.daad.de/en/>



Egyptian Academy of Scientific Research and Technology (ASRT)

According to the latest restructuring of science and technology system in Egypt and in conformity with the mission of the counterpart international academies, ASRT is considered 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. One of the ASRT crucial roles is to estimate excellence in science and its applications through developing fellowship programs and grants dedicated to prominent scientists and researchers.

Also, one of the main roles of ASRT is to sign scientific agreements with the parallel academies and organizations through which scientific research can be exchanged. Moreover, in order to encourage innovation and invention, ASRT pays great attention to the dissemination of scientific and technological culture in collaboration with the civil societies and the relevant authorities concerned with scientific research and culture. Such activity can be considered a key factor towards knowledge-based economy.

ASRT executes the various above mentioned missions, roles and activities through fifteen 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).

For more information, visit: <http://www.asrt.sci.eg/>

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Novo Nordisk

Novo Nordisk is a global healthcare company with 87 years of innovation and leadership in diabetes care. The company also has leading positions within haemophilia care, growth hormone therapy and hormone replacement therapy. The company manufactures and markets pharmaceutical products and services that make a significant difference to patients, the medical profession and society. With headquarters in Denmark, Novo Nordisk employs approximately 30,500 employees in 76 countries, and markets its products in 179 countries.

Novo Nordisk's B shares are listed on NASDAQ OMX Copenhagen (Novo-B). Its ADRs are listed on the New York Stock Exchange (NVO).

In Egypt, Novo Nordisk employs approximately 80 employees. The organization includes sales, marketing, medical, quality, finance, human resources and IT functions. The vast majority of employees (70%) work in sales and marketing.

As an employee at Novo Nordisk, you will have the potential to make a difference to both patients and society. Together we improve treatment outcomes for people with diabetes and other chronic diseases. By improving treatment we not only keep patients healthy and productive, but we also help their families and their communities. With Novo Nordisk, you can take your step towards a life-changing career because, as a global company, we offer worldwide opportunities to employees, continuous training and development.

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



Pharco Corporation

Pharco Corporation is one of the major corporations in the pharmaceutical industry in Egypt and the Middle East. The Company offers a vast range of pharmaceutical and non-pharmaceutical products that make a difference to a vast majority of people. Our contribution to the improvement of healthcare has been significant in the past few years; but there is more we would like to accomplish in the near future. Our goal is to build an independent and leading

pharmaceutical industry, by searching for and collaborating with national scientists and researchers as strategic partners to assist in introducing novel products to the market at reasonable prices. By applying cutting-edge scientific tools to find new uses for existing products, by meeting customer needs and by recruiting the best workforce candidates in the industry, we seek to become a true partner in global healthcare. Economically, Pharco Corporation is a group of healthcare companies committed to being a market leader in the pharmaceutical industry through innovation and expansion in global healthcare. Socially, Pharco Corporation operates in a way that actively recognizes the central role that healthcare plays in the development, structure and well-being of the society by initiating innovative ways to improve the quality of life in the local, national and international community.

For more information, visit: <http://www.pharco.org/>



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For more information, visit: <http://www.sedico.net/>



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The journal is published by BioMed Central, the pioneering, first fully open access online publisher. With over a decade of experience, it has published over 100,000 open access articles in over 225 journals spanning medicine and the life sciences. BioMed Central prides itself on being active in furthering scientific progress in the developing world.

All journals can be found at www.biomedcentral.com



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- المشاركة في الورشة التدريبية حول التواصل في مجال العلوم
- المشاركة في المسابقة الدولية في المملكة المتحدة البريطانية في مدينة تشيلتنهام
- بالإضافة إلى جوائز مادية قيّمة

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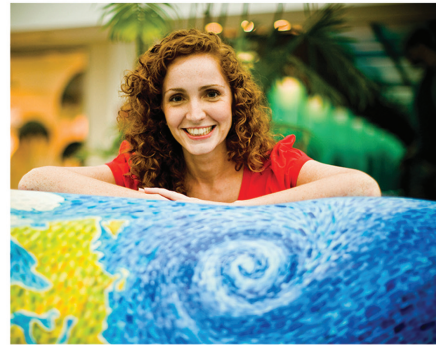
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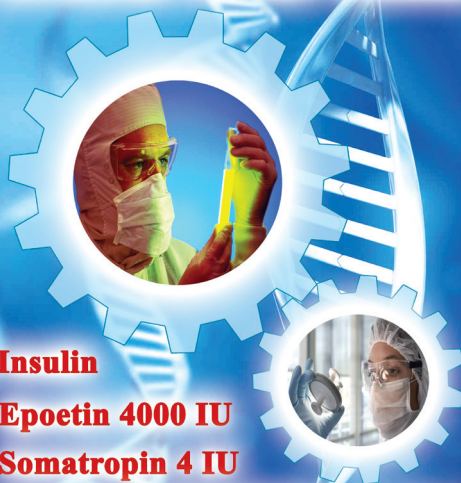
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World Health Organization (WHO)

WHO is the directing and coordinating authority for health within the United Nations system. It is responsible for providing leadership on global health matters, shaping the health research agenda, setting norms and standards, articulating evidence-based policy options, providing technical support to countries and monitoring and assessing health trends. In the 21st century, health is a shared responsibility, involving equitable access to essential care and collective defense against transnational threats.

For more information, visit: www.who.int



Food and Agriculture Organization (FAO)

FAO is a United Nations specialized agency, accountable to the FAO Conference of member governments. FAO participates in the United Nations Economic and Social Council (ECOSOC) which coordinates economic, social and related work of the 14 UN specialized agencies as well as regional commissions. An intergovernmental organization, FAO has 191 Member Nations, two associate members and one member organization, the European Union. Achieving food security for all is at the heart of FAO's efforts, to make sure people have regular access to enough high-quality food to lead active, healthy lives. FAO's mandate is to raise levels of nutrition, improve agricultural productivity, better the lives of rural populations and contribute to the growth of the world economy.

For more information, visit: www.fao.org



World Bank (WB)

Since inception in 1944, the World Bank has expanded from a single institution to a closely associated group of five development institutions. Our mission evolved from the International Bank for Reconstruction and Development (IBRD) as facilitator of post-war reconstruction and development to the present-day mandate of worldwide poverty alleviation in close coordination

with our affiliate, the International Development Association, and other members of the World Bank Group, the International Finance Corporation (IFC), the Multilateral Guarantee Agency (MIGA), and the International Centre for the Settlement of Investment Disputes (ICSID). Reconstruction remains an important part of our work. However, at today's World Bank, poverty reduction through an inclusive and sustainable globalization remains the overarching goal of our work.

For more information, visit: <http://www.worldbank.org/>



Education for Sustainable Development Beyond the Campus (EduCamp)

EduCamp is a three-year Tempus project that aims to promote Education for Sustainable Development (ESD) in the Egyptian society. The project is the first initiative in Egypt that brings universities and schools together in a structured mechanism. The specific objectives are establishing seven Centers of Excellence within Egyptian universities to offer ESD services; developing ESD teaching kits for basic education; developing innovative ESD teaching methodologies for school children; developing and implementing a training of trainers program for school teachers; and constructing a virtual environment for sharing knowledge on ESD. The project work plan consists of nine work packages. Each of the first five packages aims to achieve one of the five objectives. The other four packages cover dissemination, sustainability, quality control and management.

For more information, visit: <http://educamp.lfi.rwth-aachen.de/educamp-website/>



BA Bookshop

The BA bookshop presents a rich variety of books and gifts that reflect the wonders of the Egyptian civilization and the uniqueness of its national heritage. They offer a perfect reminder of the great history of the ancient library as well as the fascinating building of Bibliotheca Alexandrina and what it comprises.

For more information, visit: <http://www.bibalex.org>



BA YESBU and LYM Programs

The BA presents an incubator for talented students in Egyptian schools. Therefore, the Advisors for Special Projects organized the Youth for Environmental Sustainability and Better Understanding (YESBU) directed to students (13-18 years old) through weekly lectures on Saturday. This program started in 2002 with a group of 53 students. Today, thousands of students have passed through it. The YESBU aims to increase the environmental awareness among school students, improve their skills and to encourage self-learning methods through following different e-learning course. Besides the weekly lectures, YESBU organizes a number of workshops, conferences, seminars and field trips.

For more information, visit: <http://www.bibalex.org/yesbu>



BA Planetarium Science Center (PSC)

The BA PSC aims to promote science and technology among school students and the public at large, and to show their relevance to everyday life. The PSC aims to become a gateway to the challenges of the future, to foster the values of Science, to create a new generation of innovative thinkers, to yield a new generation of science literate problems solvers, and to give new generations the tools to determine a future that is one of CHOICE not chance.

For more information, visit: <http://www.bibalex.org/psc>



BA Library Sector Resources

The BA Library Sector is a public-research library; established to revive the Ancient Library of Alexandria and to ensure the presence of 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 and Multimedia Library and the Nobel Section,

with the objectives of improving awareness, knowledge and dialogue between cultures, and attaining standards of excellence in scientific research.

For more information, visit: <http://www.bibalex.org/libraries/presentation/static/10000.aspx>



BA Depository Library

The Depository Collection is an information center focusing on the United Nations (UN), the European Union (EU), their international organizations, and other government printing agencies and authorities. It is located within the main reading hall on level F2. The primary objectives of this information center are to acquire, organize, and disseminate the publications of the various governmental bodies represented and their constituent and related organizations; and provide reference and information services on the history, activities, structure and publications of the organizations highlighted within the Depository Collection. The first of these objectives is met through the collection development activities of the Depository. The second is met by the Depository's public services activities. The Library provides many services to all its patrons, including basic assistance in finding materials, detailed research assistance, and information about the governmental bodies represented. Basic information services are available at the Reference Desk any time. For more advanced assistance, patrons are requested to schedule an appointment with one of the Depository's librarians at the Reference Desk. The Depository Collection is extensive and covers all types of publications of the UN, EU, and other government organizations. The print collection contains books, journals and other periodicals (such as yearbooks and annual reports), brochures, and more. Printed material is searchable in the BA catalog. The Depository also provides access to all available official governmental electronic resources, through the computer terminals located within the Main Reading Hall. The collection also holds an assortment of officially issued audio/visual materials.



BA Center for Special Studies and Programs (CSSP)

The Center for Special Studies and Programs (CSSP) is one of eight academic research centers associated to the Bibliotheca Alexandrina—the new Library of Alexandria. CSSP's main aim is to propagate and encourage scientific research and networking in a variety of ways through delivering various highly significant scientific events throughout the year that tackle latest discoveries

in different fields and their benefits to humanity. Building on the needs of developing countries, the CSSP places special focus on life science and youth. Additionally, it acts as a regional office for a number of international scientific organizations that are dedicated to building scientific excellence across the developing world and to present a strong contribution in the promotion of science and technology.

One of CSSP's annual activities is the Visiting Scholar Program (VSP) that invites scholars from around the globe to disseminate and exchange knowledge with other scholars, researchers and students working in the same field of their expertise. The invited scholars also participate as speakers in lectures, workshops or seminars that are in progress, where they can provide a cross-cultural or international perspective, as well as facilitate the initiation of exchange programs between their institutions and the BA.

Every year, the CSSP provides funding to a selected number of young Egyptian postdoctoral researchers through the BA/CSSP Research Grants program and offers them a grant to support their research. Additionally, it establishes connections and contacts with both local and international scientists and researchers in an endeavor to keep them updated with recent research on the global level.

Within its framework of encouraging youth to interact within their communities and to solve their encountered problems, the BA/CSSP Micro Research Grants program introduces a sustainable culture of invention to schools and communities with the aim of empowering students to explore their interests in science, technology, engineering, and math during high school.

For more information, visit: <http://www.bibalex.org/cssp>

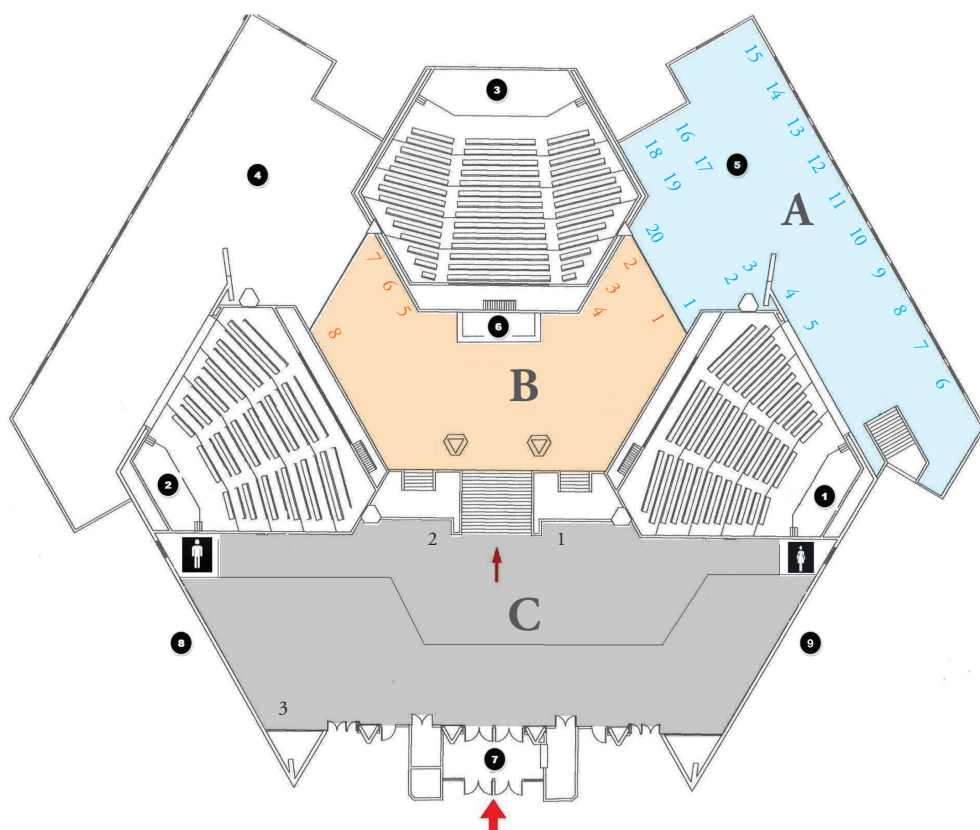


BioVisionAlexandria Volunteers

In every BioVisionAlexandria (BVA) conference, the organizers seek the help of science-passionate high school and college students to volunteer with their extra time to help in the organization and execution of the event.

This year, a group formed of the sixty most active and talented volunteers, who were chosen to join the BVA 2012 team and who received training a few months before the event, were granted a booth at the BioFair to exhibit their work, express their views and share their experiences, illustrated in their very own unique style.

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- 2 Delegate Hall
- 3 Small Theater
- 4 East Exhibition (Poster Session)
- 5 West Exhibition
- 6 Registration Desk
- 7 Main Entrance
- 8 VIP Meeting Room
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