

# BioVisionAlexandria 2016, 12–14 April 2016

## Program\*

<b>Stream A</b>	<b>Biomedical Sciences and Engineering</b>	<b>A1–A8</b>
<b>Stream B</b>	<b>Food, Nutrition, and Well-being</b>	<b>B1–B7</b>
<b>Stream C</b>	<b>Current Practices and Future Insights</b>	<b>C1–C7</b>

<b>Tuesday, 12 April 2016</b>  <b>(Day I)</b>	<b>08:00–10:00</b>	Registration (available every day of the conference)	
	<b>10:00–12:00</b>	<b>Opening Session</b>	
	<b>12:00–13:30</b>	Group Photo and Lunch Break	
	<b>13:30–15:00</b>	<b>Keynote Speeches</b>	
	<b>15:00–15:30</b>	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)	
	<b>15:30–16:30</b>	<b>Nobel Session</b>	
	<b>16:30–18:00</b>	<b>Round Table Discussion on “Science, Technology, Research, and Innovation”</b>	<b>A1: From Sequence to Knowledge: The Future of Genomics</b>
	<b>18:00–18:30</b>	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)	
	<b>18:30–20:00</b>	<b>B1: Feeding Billions: Policy and Practices</b>	<b>C1: Sustainability for Future Generations</b>
	<b>20:30</b>	Musical Event	

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## Program\*

Wednesday, 13 April 2016  (Day II)	08:30–09:00	Registration (available every day of the conference)		
	09:00–10:30	A2: Systems Biology and Precision Medicine: Unlocking the Future		B2: Global Food Security: The Way Ahead (I)
	10:30–11:00	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
	11:00–12:30	A3: Advances in Biomedical Sciences		B3: Global Food Security: The Way Ahead (II)
	12:30–14:00	Lunch Break		
	14:00–15:30	A4: Living in a Post-Antibiotic World: Challenges versus Opportunities	B4: Enhancing the Future: Education, Bioethics, and Research	C2: Global Experiences in Technology Transfer and Commercialization in Biosciences
	15:30–16:00	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
	16:00–17:30	Plenary Session: Library of Alexandria Africa		C3: Knowledge-Triangle Platform for the Water-Energy-Food Nexus
	17:30–18:00	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
	18:00–19:30	A5: The Microbiome: A New Way of Understanding Our World	B5: Digital Health and Precision Medicine	C4: Communities of Interest in Science

Thursday, 14 April 2016  (Day III)	08:30–09:00	Registration (available every day of the conference)		
	09:00–10:30	A6: Translational Medicine: Serving Our Society	B6: A Look into Modern Biotechnology	C5: A Focus on Environmental Studies and Toxicological Research
	10:30–11:00	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
	11:00–13:00	A7: Robotics and Biorobotics in Life Sciences (I) and Round Table Discussion		
	13:00–14:30	Lunch Break		
	14:30–15:30	A8: Robotics and Biorobotics in Life Sciences (II)	C6: Sustainable Intensification under Irrigation	
	15:30–16:00	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
	16:00–17:30	B7: Genetic Engineering: Research and Innovative Applications	Round Table Discussion on “Improving Health”	C7: Nanotechnology Research and Applications
	17:30–18:00	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
	18:00–19:00	Reporting Session		
	19:00–20:00	Closing Session		

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Tuesday, 12 April 2016	
08:00–10:00	Registration (available every day of the conference)
10:00–12:00  Day 1	<p><b>Opening Session</b> (Great Hall)</p> <ul style="list-style-type: none"> <li>• <b>Welcome Note: Marwa Elwakil</b>, Deputy Director, Center for Special Studies and Programs, Bibliotheca Alexandrina (Egypt)</li> <li>• <b>Gordon Conway</b>, Director, Agriculture for Impact and Professor of International Development, Imperial College London (UK)</li> <li>• <b>STS Representative: Koji Omi</b>, Founder and Chairman, Science and Technology in Society Forum (Japan)</li> <li>• <b>TWAS Representative: Mohamed Hamdan</b>, TWAS Vice President for the Arab Region and Senior Advisor, Arab Open University (Jordan)</li> <li>• <b>AASTMT Representative: Ismail Abdel Ghafar</b>, President, Arab Academy for Science, Technology and Maritime Transport (Egypt)</li> <li>• <b>HRH Princess Sumaya bint El Hassan</b>, President, Royal Scientific Society (Jordan) - Video message</li> <li>• <b>Keynote Address: Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)</li> </ul>
12:00–13:30	Group Photo and Lunch Break
13:30–15:00  Day 1	<p><b>Keynote Speeches</b> (Great Hall)</p> <p><b>Chair: Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Farouk El-Baz</b>, Director, Center for Remote Sensing, Boston University (USA) “Role of Egypt’s Youth Is the Next Decade”</li> <li>• <b>Mostafa El-Sayed</b>, Regents’ Professor and Julius Brown Chair, Department of Chemistry and Biochemistry, Georgia Institute of Technology (USA) “Nanotechnology: The Big Potential Of the Very Small”</li> <li>• <b>Felix Unger</b>, President, European Academy of Sciences and Arts (Austria) “There Are Many Roads in Medicine Ahead”</li> </ul>
15:00–15:30	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)
15:30–16:30  Day 1	<p><b>Nobel Session</b> (Great Hall)</p> <p><b>Chair: Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>James Heckman</b>, Economics 2000 (USA) - Live video conference</li> <li>• <b>John Mather</b>, Physics 2006 (USA) - Live video conference</li> </ul> <p><b>“The History of the Universe From the Beginning To the End: Where Did We Come From, Where Can We Go?”</b></p>

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<p><b>16:30–18:00</b></p> <p><b>Day 1</b></p>	<p><b>Round Table Discussion on “Science, Technology, Research, and Innovation”</b> (Great Hall)</p> <p>Empowering young scientists and young leaders is a rising need for the progression of research, technology, and innovation. Bridges need to be built, strengthened, and supported from different disciplines to better equip the current and coming generation for the road ahead. The relationship between science, technology, research, and innovation and how it affects our society today has become a crucial issue.</p> <p><b>Chair: Ehsan Masood</b>, Editor, Research Professional (UK)</p> <p><b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Mohamed Hassan</b>, Co-Chair, Inter Academy Partnership (Italy)</li> <li>• <b>William Saito</b>, Special Advisor, Prime Minister Cabinet, Government of Japan (Japan)</li> <li>• <b>John Kilama</b>, Chairman, Innovators for Africa Development, Inc. (USA)</li> <li>• <b>João de Carvalho</b>, Principal, BiznessBrazil (Brazil)</li> </ul> <p><b>“Fostering Innovative Business Through Education and Business Incubation”</b></p> <ul style="list-style-type: none"> <li>• <b>Jason Blackstock</b>, Head, Science, Technology, Engineering, and Public Policy Department, University College London (UK)</li> </ul>	<p><b>A1: From Sequence to Knowledge: The Future of Genomics</b> (Lecture Hall)</p> <p>Co-organized with Cairo University (Professor Ramy Aziz)</p> <p>Microbial genomics has revolutionized infectious diseases and epidemiology research by facilitating the tracking and development of strategies to combat emerging or reemerging biothreats. What are the latest advancements in the field of genomics and how can they be utilized and applied to practically benefit humanity? This session will study what we need to know concerning genomics and its latest research.</p> <p><b>Chair: Ramy Aziz</b>, Assistant Professor, Faculty of Pharmacy, Cairo University (Egypt)</p> <p><b>Co-chair: Andrew Kropinski</b>, Professor Emeritus, Department of Microbiology and Immunology, Queen's University (Canada)</p> <p><b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li>• <b>Guilherme de Oliveira</b>, Senior Researcher, Biodiversity and Biotechnology, Instituto Tecnológico Vale (Brazil)</li> </ul> <p><b>“Biodiversity in the Amazon: From Exotic Environments to Biomining”</b></p> <ul style="list-style-type: none"> <li>• <b>Andrew Kropinski</b>, Professor Emeritus, Department of Microbiology and Immunology, Queen's University (Canada)</li> </ul> <p><b>“From Phenotype to Genotype and Beyond: The Impact of DNA Sequencing on Bacterial Diagnostics.”</b></p> <ul style="list-style-type: none"> <li>• <b>Mostafa Elshahed</b>, Associate Professor, Department of Microbiology and Molecular Genetics, Oklahoma State University (USA)</li> </ul> <p><b>“Environmental Genomics as a Powerful Tool to Discover and Characterize Uncultured Microbes”</b></p> <ul style="list-style-type: none"> <li>• <b>Carolina Mizuno</b>, Biologist, Molecular Biology of Gene in Extremophiles Unit, Institut Pasteur Paris (France)</li> </ul> <p><b>“Marine Metagenomics: Widening Horizons for Uncultured Microbes and their Viruses”</b></p>
<p><b>18:00–18:30</b></p>	<p>Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)</p>	

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<p><b>18:30–20:00</b></p> <p><b>Day 1</b></p>	<p><b>B1: Feeding Billions: Policy and Practices</b> (Small Theater)</p> <p>Today, the growing world population needs more food with sustainable resource management. It is a great challenge to satisfy the food demand of our world. We are surrounded by income fluctuations, urbanization, and dietary changes that call for our attention. The session will investigate how to merge the practices and policy underlying food security to address one of the strongest challenges in our way ahead.</p> <p><b>Chair: Magdy Madkour</b>, Professor, Faculty of Agriculture, Ain Shams University (Egypt)  <b>Rapporteur: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Adel El-Beltagy</b>, Former Minister, Ministry of Agriculture and Land Reclamation and Chair, International Dryland Development Commission (Egypt)  <b>“Toward Sustainable Food Security in Egypt: Policies and Practices”</b></li> <li>• <b>Clemens Breisinger</b>, Senior Research Fellow and Country Program Leader for Egypt, Development Strategy and Governance Division, International Food Policy Research Institute (USA)</li> <li>• <b>Mahmoud Solh</b>, Director General, International Center for Agricultural Research in the Dry Areas (Lebanon)</li> <li>• <b>Yehia Zaki</b>, Special Advisor, Bibliotheca Alexandrina and Former Dean, Faculty of Medicine, Alexandria University (Egypt)</li> </ul>	<p><b>C1: Sustainability for Future Generations</b> (Delegates Hall)</p> <p>We all consume a considerable amount of resources on a daily basis. However, we need to consider securing the future for coming generations and the balance of the earth. Let us work towards the ultimate goal of development and scientific research, and let us embrace sustainable strategies and save as much as possible for the benefit and survival of future generations.</p> <p><b>Chair: Salah Soliman</b>, Special Advisor, Bibliotheca Alexandrina and Professor, Faculty of Agriculture, Alexandria University (Egypt)  <b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Hani El-Nokraschy</b>, Managing Director, Nokraschy Engineering GmbH (Germany)  <b>“Energy Challenge in Africa”</b></li> <li>• <b>Margaret Cately-Carlson</b>, Vice Chair, Board of Directors (Canada)  <b>“Bioscience Needed for Future Generations Water Sustainability”</b></li> <li>• <b>Helmy Abouleish</b>, Chief Executive Officer, SEKEM (Egypt)  <b>“The Future of Agriculture in Egypt: A Comparative Full Cost Accounting Study of Organic and Conventional Food Production Systems in Egypt”</b></li> <li>• <b>Ilya Zaslavsky</b>, Director, Spatial Information Systems Laboratory, University of California San Diego (USA)  <b>“Global Environmental Information and Knowledge Sharing for Sustainability”</b></li> <li>• <b>Salif Diop</b>, Former Senior Staff Member, Division of Early Warning and Assessment, United Nations Environment Programme (Senegal)  <b>“Sustainability of Future Coasts and Estuaries: Lessons Learnt in West Africa for the Sustainable Management of Estuaries, Mangroves, and Coastal Waters”</b></li> </ul>
<p><b>20:30</b></p>	<p>Musical Event</p>	

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Wednesday, 13 April 2016		
08:30–09:00	Registration (available every day of the conference)	
09:00–10:30  Day 2	<p><b>A2: Systems Biology and Precision Medicine: Unlocking the Future</b> (Great Hall)</p> <p>Co-organized with Cairo University (Professor Ramy Aziz)</p> <p>Systems are surrounding us and affecting us. Think of what we eat, what we drink, what we use, and the medication we take. Let us scrutinize how we can use precision medicine and systems biology to address the challenges our society faces today, so we can better understand our environment and focus on development in these interesting fields.</p> <p><b>Chair: Guilherme de Oliveira</b>, Senior Researcher, Biodiversity and Biotechnology, Instituto Tecnológico Vale (Brazil)</p> <p><b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li>• <b>Charles Auffray</b>, President and Founding Director, European Institute for Systems Biology and Medicine (France) “How Systems Biology Will Revolutionize 21<sup>st</sup> Century Medicine through the Vistera Project”</li> <li>• <b>Sherif El-Khamisy</b>, Director, Center of Genomics, Zewail City of Science and Technology (Egypt) “Our Glorious Diversity: Genome (In)Stability and the Road Ahead”</li> <li>• <b>Ahmed Moustafa</b>, Associate Professor, Department of Biology, American University in Cairo (Egypt) “What We Learn from ‘Clinically’-deep 10,000 Genomes?”</li> </ul>	<p><b>B2: Global Food Security: The Way Ahead (I)</b> (Lecture Hall)</p> <p>Co-organized with Norman Borlaug Institute for Global Food Security (Professor Malcolm Elliott)</p> <p>Norman Borlaug, “The Man Who Fed the World”, observed that, “The green revolution in agriculture has won a temporary success in man’s war against hunger...but the frightening power of human reproduction must also be curbed; otherwise, the success of the green revolution will be ephemeral”. In our world of 7.4 billion people, almost one billion are hungry. The speakers in these sessions will highlight the opportunities and the challenges of delivering sustainable global food security while maintaining biodiversity.</p> <p><b>Chair: Malcolm Elliott</b>, Founding Director, The Norman Borlaug Institute for Global Food Security (UK)</p> <p><b>Rapporteur: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Nina Fedoroff</b>, Evan Pugh Professor Emerita, Huck Institutes of the Life Sciences, Pennsylvania State University (USA)</li> <li>• <b>Edward Cocking</b>, Professor Emeritus, Faculty of Science, University of Nottingham (UK) “Global Food Security: The Way Ahead, Nitrogen-fixing Crops”</li> <li>• <b>Gudbjorg Inga Aradottir</b>, Research Scientist, Department of Biological Chemistry and Crop Protection, Rothamsted Research (UK) “The Future of Crop Protection”</li> </ul>
10:30–11:00	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)	

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<p><b>11:00–12:30</b></p> <p><b>Day 2</b></p>	<p><b>A3: Advances in Biomedical Sciences</b> (Great Hall)</p> <p>Our needs and the advancements in research are linking disciplines like never before. In this session, the latest interdisciplinary research is demonstrated that helps better meet the needs of our world today. Applications of scientific advancement include fighting aging and disease and improving nutrition, well-being, and health.</p> <p><b>Chair: Suad Sulaiman</b>, Health and Environment Advisor (Sudan)</p> <p><b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li>• <b>Nagwa El-Badri</b>, Director, Center of Excellence for Stem Cells and Regenerative Medicine, Zewail City of Science and Technology (Egypt) “<b>Biomedical Sciences Research: Stem Cell Update</b>”</li> <li>• <b>Yasmine Aguib</b>, Deputy Director, Research Department, Aswan Heart Centre, Magdi Yacoub Heart Foundation (Egypt) “<b>Advances in Biomedical Sciences</b>”</li> <li>• <b>Mona Marei</b>, Head, Tissue Engineering Laboratories, Faculty of Dentistry, Alexandria University (Egypt) “<b>The Clinical and Commercial Translation of Break-Through Innovations of Regenerative Therapy</b>”</li> </ul>	<p><b>B3: Global Food Security: The Way Ahead (II)</b> (Lecture Hall)</p> <p>Co-organized with Norman Borlaug Institute for Global Food Security (Professor Malcolm Elliott)</p> <p>Norman Borlaug, “The Man Who Fed the World”, observed that, “The green revolution in agriculture has won a temporary success in man’s war against hunger...but the frightening power of human reproduction must also be curbed; otherwise, the success of the green revolution will be ephemeral”. In our world of 7.4 billion people, almost one billion are hungry. The speakers in these sessions will highlight the opportunities and the challenges of delivering sustainable global food security while maintaining biodiversity.</p> <p><b>Chair: Malcolm Elliott</b>, Founding Director, The Norman Borlaug Institute for Global Food Security (UK)</p> <p><b>Rapporteur: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Alison van Eenennaam</b>, Cooperative Extension Specialist, Department of Animal Science, University of California Davis (USA) “<b>The Role of Animal Biotechnology in the 21<sup>st</sup> Century</b>”</li> <li>• <b>Meryl Williams</b>, Director, Asia Pacific-Fish Watch (Malaysia)</li> <li>• <b>Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)</li> </ul>
<p><b>12:30–14:00</b></p>	<p style="text-align: center;">Lunch Break</p>	

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<p><b>14:00–15:30</b></p> <p><b>Day 2</b></p>	<p><b>A4: Living in a Post-Antibiotic World: Challenges versus Opportunities</b> (Great Hall)</p> <p>Co-organized with Cairo University (Professor Ramy Aziz)</p> <p>We are surrounded by powerful bacteria that are constantly capable of building resistance to the antibiotics we develop. How can we combat them and what are the opportunities we can seize to better equip ourselves against changing health threats? Does the use of bacteriophages, or viruses that infect microbial cells, play a role as phage therapy next to antibiotics? It is time to analyze the development and applications of the different approaches in medicine, agriculture, and more.</p> <p><b>Chair: Malak Kotb</b>, Chair, Department of Basic Sciences, University of North Dakota (USA) <b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p>	<p><b>B4: Enhancing the Future: Education, Bioethics, and Research</b> (Lecture Hall)</p> <p>Empowering young scientists and young leaders is a rising need for the progression of research and innovation. Starting at the basic educational level to higher education and research, bridges need to be built, strengthened, and supported from different disciplines to better equip the current and coming generations for the road ahead.</p> <p><b>Chair: Yousry El-Gamal</b>, Former Minister, Ministry of Education (Egypt) <b>Rapporteur: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</p>	<p><b>C2: Global Experiences in Technology Transfer and Commercialization in Biosciences</b> (Small Theater)</p> <p>Co-organized with Michigan State University (Professor Karim Maredia)</p> <p>Rapid developments in biosciences are revolutionizing global agriculture and food systems. The policy environment and the landscape of Intellectual Property (IP) management and technology transfer at public universities and government funded research institutions all over the world are rapidly evolving. The countries in different geographic regions of the world are at various stages of technology management and commercialization capacities. The governments and public institutions are taking positive steps in building their capacities—both institutional and national capacity in intellectual property management, technology transfer, and commercialization through public-private partnerships. In this session, the panel of experts from seven regions of the world will share their experiences and review recent developments in technology transfer policies and practices. The panelists will also highlight the key areas for future capacity building in technology transfer and commercialization, where governments and international development agencies can invest to pave a way for technology transfer programs to succeed so that society can benefit from new science and technology.</p> <p><b>Chair: Karim Maredia</b>, Director, World Technology Access Program, Michigan State University (USA) <b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p>
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	<ul style="list-style-type: none"> <li>• <b>Malak Kotb</b>, Chair, Department of Basic Sciences, University of North Dakota (USA)  <b>“Improving Outcome of Necrotizing Fasciitis: Elucidation of Complex Host and Pathogen Signatures that Dictate Severity of Tissue Infection”</b></li> <li>• <b>Jean-Marie Pagès</b>, Director, UMR-MD1 Joint Research Unit, Aix-Marseille University (France)  <b>“Challenging the Antibiotic Resistance: the Antibiotic Translocation through Bacterial Membrane”</b></li> <li>• <b>Martha Clokie</b>, Professor, Infection, Immunity, and Inflammation Department, University of Leicester (UK)  <b>“New Strategies to Get Ready for a Post-Antibiotic Era: A Treasure Trove of Options from Bacteriophages”</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Mohamed Hamdan</b>, TWAS Vice President for the Arab Region and Senior Advisor, Arab Open University (Jordan)  <b>“New Life Sciences: Some Bioethical Issues”</b></li> <li>• <b>Katia Chalita</b>, President and Director, ÁKBAR Produções Artísticas (Brazil)</li> <li>• <b>Biljana Papazov Ammann</b>, Professor, University of Sofia (Switzerland)  <b>“The Dilemma: Progress or Development?”</b></li> <li>• <b>Amr Farouk</b>, Assistant to the President, Academy of Scientific Research and Technology (Egypt)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Ruth Mbabazi</b>, Research Associate, College of Agriculture and Natural Resources, Michigan State University (USA)  <b>Chimwemwe Chamdimba</b>, Head, Climate Change and Natural Resources Management, The New Partnership For Africa's Development (Malawi)</li> <li>• <b>Shireen Assem</b>, Director, Agricultural Genetic Engineering and Biotechnology Research Institute, Agricultural Research Center (Egypt)  <b>Magdy Madkour</b>, Professor, Faculty of Agriculture, Ain Shams University (Egypt)</li> <li>• <b>Jane Payumo</b>, Integrative Activities Specialist, King Abdullah University of Science Technology (Saudi Arabia)  <b>“Intellectual Property and Opportunities for Food Security in South East Asia”</b></li> <li>• <b>Hashini Dissanayake</b>, Assistant Professor, College of Agriculture and Natural Resources, Michigan State University (USA)  <b>Neeru Bhooshan</b>, Principal Scientist, Zonal Technology Management and Business Planning and Development, Indian Agricultural Research Institute (India)  <b>“Translating Research into Prosperity: An Indian Experience”</b></li> <li>• <b>Mônica Amâncio</b>, Lawyer, Empresa Brasileira de Pesquisa Agropecuária (Brazil)  <b>Maria Jose Sampaio</b> (Brazil)</li> <li>• <b>Anatole Krattiger</b>, Director, Global Challenges Division, World Intellectual Property Organization (Switzerland)  <b>Meghana Sharafudeen</b>, Associate Program Officer, Global Challenges Division, World Intellectual Property Organization (Switzerland)  <b>“Leveraging Intellectual Property for Technology Transfer: Lessons Learned from WIPO Research and WIPO GREEN”</b></li> </ul>
<b>15:30–16:00</b>	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		

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# BioVisionAlexandria 2016, 12–14 April 2016

## Program\*

<p><b>16:00–17:30</b></p> <p><b>Day 2</b></p>	<p><b>Plenary Session: Library of Alexandria Africa</b> (Great Hall)</p> <p>Co-organized with Professor Ronald Laporte</p> <p><b>Chair: Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)</p> <p><b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li>• <b>Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)</li> <li>• <b>Eusebius Mukhwana</b>, Deputy Commission Secretary and Chief Executive Officer, Commission for University Education, University of Nairobi (Kenya)  <b>“Kenya: A Blueprint for Research and Innovation Incentives for Africa”</b></li> <li>• <b>Francis Ohanyido</b>, Chair and Senior Fellow, West African Academy of Public Health (Nigeria)  <b>“Why Are Publications in Africa so Limited?”</b></li> <li>• <b>Musa Kana</b>, Senior Lecturer and Public Health Physician Consultant, Faculty of Medicine, Kaduna State University (Nigeria)  <b>“The Epidemiology of Publications in Africa”</b></li> </ul>	<p><b>C3: Knowledge-Triangle Platform for the Water-Energy-Food Nexus</b> (Small Theater)</p> <p>Co-organized with Knowledge-Triangle Platform for the Water-Energy-Food Nexus (TriNex) TEMPUS Project</p> <p>Considering all of the significant environmental challenges facing both Egypt and the world, a more holistic and inclusive approach for addressing sustainable development must emerge—especially in the fields of Water, Energy, and Food (WEF). The three overlapping issues of the WEF have a multiplier effect, and a more integrated approach to solving them is crucial for development. Up until now, these issues have been dealt with separately. Only by acknowledging their interrelatedness and dealing with them accordingly will significant and lasting progress be made. This is the WEF Nexus. And from this, the “Knowledge-Triangle Platform for the Water-Energy-Food Nexus” (TriNex) Project was established with the explicit aim of making the WEF the new research frontier in Egypt. In the last BioVisionAlexandria conference, the plans to do so were laid out. In this conference, the accomplishments of the TriNEX consortium are laid out.</p> <p><b>Chair: Hani Sewilam</b>, Academic Director, Engineering Hydrology, RWTH Aachen University (Germany)</p> <p><b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Rasha El Kholy</b>, Dean, Faculty of Engineering, Heliopolis University (Egypt)</li> <li>• <b>Yehia El Shazly</b>, Associate Professor, Chemical Engineering Department, Alexandria University (Egypt)</li> <li>• <b>Ashraf Suloma</b>, Professor, Faculty of Agriculture, Cairo University (Egypt)</li> </ul>
<p><b>17:30–18:00</b></p>	<p>Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)</p>	

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<p><b>18:00–19:30</b></p> <p><b>Day 2</b></p>	<p><b>A5: The Microbiome: A New Way of Understanding Our World</b> (Great Hall)</p> <p>Co-organized with Cairo University (Professor Ramy Aziz)</p> <p>Research in microbiome is essential for our world today. It involves therapeutic research, therapeutic applications to disease, and health improvement. This session will address what we need to know concerning microbiome and its latest research to better understand our world and our roles towards our own health, illuminating our way ahead.</p> <p><b>Chair: Mostafa Elshahed</b>, Associate Professor, Department of Microbiology and Molecular Genetics, Oklahoma State University (USA) <b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li><b>Alex Mira</b>, Principal Investigator, Oral Microbiome Laboratory, Advanced Research in Public Health Center (Spain) “The Human Microbiome in Health and Disease: Clinical Applications”</li> <li><b>Ramy Aziz</b>, Assistant Professor, Faculty of Pharmacy, Cairo University (Egypt) “Our Microbiome Cloud and Us: A Common Destiny?”</li> </ul>	<p><b>B5: Digital Health and Precision Medicine</b> (Lecture Hall)</p> <p>Co-organized with Simon Bolivar University (Professor Rafael Rangel-Aldao)</p> <p>This session will present current and future developments worldwide to empower individuals and communities to access predictive, preventive, participatory, and precision wellness and healthcare. We will also show how a combination of genomics and pathology-supported pharmacogenetics techniques can enable the identification of risk factors and precision therapeutic intervention of cancer development.</p> <p><b>Chair: Rafael Rangel-Aldao</b>, Invited Professor, Department of Technology of Biological Processes, Simón Bolívar University (Venezuela) <b>Co-Chair: Peter Benson</b>, Head, Institute of Health and Wellbeing, London South Bank University (UK) <b>Rapporteur: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</p> <ul style="list-style-type: none"> <li><b>Peter Benson</b>, Head, Institute of Health and Wellbeing, London South Bank University (UK) “The Digital Health Cluster in London”</li> <li><b>Monica Ganan</b>, Research and Enterprise Development Manager, Institute of Health and Wellbeing, London South Bank University (UK) “The Business of Digital Health”</li> </ul>	<p><b>C4: Communities of Interest in Science</b> (Small Theater)</p> <p>Co-organized with Professor Ronald Laporte</p> <p><b>Chair: Ronald Laporte</b>, Professor Emeritus, Department of Epidemiology, University of Pittsburgh (USA) <b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p> <ul style="list-style-type: none"> <li><b>Eugene Shubnikov</b>, Research Scientist, Research and Innovation Department, Institute of Internal Medicine (Russia) “Communities of Interest for BA Africa Science”</li> <li><b>Francois Sauer</b>, Special Advisor, SHINE Program (USA) “Well-being and System Thinking: A Path to Peace and Harmony in the World”</li> <li><b>Faina Linkov</b>, Associate Professor, School of Medicine, University of Pittsburgh (USA) “From Scientific Journals to Scientific Magazines: Evolution of Scientific Productivity”</li> <li><b>Eman Eltahlawy</b>, Assistant Professor, Environmental Health Department, National Research Centre (Egypt)</li> </ul>
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	<ul style="list-style-type: none"> <li>• <b>Bent Petersen</b>, Associate Professor, Center for Biological Sequence Analysis, Technical University of Denmark (Denmark)  <b>“Sequencing of Microbiomes – Big Data and Big Research Opportunities”</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Rafael Rangel-Aldao</b>, Invited Professor, Department of Technology of Biological Processes, Simón Bolívar University (Venezuela)  <b>“A Systems Approach to Digital Health and Wellness”</b></li> <li>• <b>José Moreno</b>, Former Professor, Department of Physics, Universidad Central de Venezuela (Venezuela)  <b>“TopFoodMap: Self Organizing Kohonen Map for the Visualization of Foods”</b></li> <li>• <b>Eduardo Gonzalez</b>, Professor, Department of Technology of Biological Processes, Simón Bolívar University (Venezuela)  <b>“Visualizing Healthy Eating Zones: Understanding the Differences Between Diets Using the TopFoodMap”</b></li> <li>• <b>Nicole Van der Merwe</b>, Doctor, Medical and Health Science Faculty, Stellenbosch University (South Africa)  <b>“Application of a Pathology-Supported Pharmacogenetic Test in Selecting Breast Cancer Patients for Whole Exome Sequencing”</b></li> </ul>	
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## Program\*

Thursday, 14 April 2016			
08:30–09:00	Registration (available every day of the conference)		
09:00–10:30	<p><b>A6: Translational Medicine: Serving Our Society</b> (Great Hall)</p> <p>Today, health improvement is concerning a lot of people. Scientific discoveries are translated into health improvement tools every day. But what are the new advances in the different disciplines that pour into translational medicine? What are some of the applications of this interdisciplinary research? Let us explore how science serves society's well-being and what promises the future holds.</p>	<p><b>B6: A Look into Modern Biotechnology</b> (Lecture Hall)</p> <p>The revolution of biotechnology and its use to promote agriculture continues to flourish. Whether it is research on genetically engineered crops or primitive modifications in irrigation techniques, agricultural biotechnology is on the rise and we need to always be up-to-date with its latest research and achievements. Together, we will talk about it with the scientists that know it best.</p>	<p><b>C5: A Focus on Environmental Studies and Toxicological Research</b> (Small Theater)</p> <p>Environmental studies have introduced new breakthroughs that offer solutions to different challenges. Yet, the risks and toxicological effects of the latest technologies need to be closely considered. What do we need to know about the different disciplines involved? What opportunities does current research present? The session will try to get to the bottom of the application in different fields including energy, life sciences, engineering, and more.</p>
	<p><b>Chair: Yehia Zaki</b>, Special Advisor, Bibliotheca Alexandrina and Former Dean, Faculty of Medicine, Alexandria University (Egypt)</p> <p><b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li><b>Abdalla El-Agha</b>, Professor, Faculty of Medicine, Cairo University (Egypt) “Translational Medicine: Serving Our Community”</li> </ul>	<p><b>Chair: Klaus Ammann</b>, Professor Honorary Emeritus and Former Director, Botanic Garden, University of Bern (Switzerland)</p> <p><b>Rapporteur: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</p> <ul style="list-style-type: none"> <li><b>Daniel Pagliano</b>, Professor, Biotechnology Department, Universidad de la Empresa (Uruguay) “Biotechnology in Mercosur: Trends and Challenges”</li> <li><b>Frank Shotkoski</b>, Director, Agricultural Biotechnology Support Project II, Cornell University (USA) “Bt Eggplant: Commercial Success in Bangladesh”</li> </ul>	<p><b>Chair: Salah Soliman</b>, Special Advisor, Bibliotheca Alexandrina and Professor, Faculty of Agriculture, Alexandria University (Egypt)</p> <p><b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p> <ul style="list-style-type: none"> <li><b>Saber Hussain</b>, Senior Nanotoxicology Research Scientist, Research Laboratory, Air Force Base (USA) “Evaluation of Engineered Nanomaterial Toxicity &amp; Safety: Linking Materials Physical Parameters”</li> </ul>

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## Program<sup>\*</sup>

	<ul style="list-style-type: none"> <li>• <b>Heba Kassem</b>, Director, Clinical Genomics Centre, Alexandria University New Hospital (Egypt)  <b>“Genomics in Medicine: Development of Technology and Value Added”</b></li> <li>• <b>Sameh Ali</b>, Founding Director, Center for Aging and Associated Diseases, Zewail City of Science and Technology (Egypt)  <b>“The Mitochondrion: The Achilles' Heel for Cancer Treatment!”</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Villoo Patell</b>, Founder, Chairperson, and Managing Director, Avesthagen Limited (India)  <b>“My Personal Journey of Taking an Idea to the Consumer with Modern Molecular Biology”</b></li> <li>• <b>Walid El-Sharoud</b>, Professor, Faculty of Agriculture, Mansoura University (Egypt)  <b>“Synthetic Biology: To Redesign or Improve Life?”</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Jeffrey Jenkins</b>, Professor, Environmental and Molecular Toxicology, Oregon State University (USA)  <b>“A Systems Approach to Crop Production, Food Security, and Protection of Human and Environmental Health”</b></li> <li>• <b>Taysir Soliman</b>, Associate Professor and Vice Dean, Post Graduate Studies and Research, Assiut University (Egypt)  <b>“Big Data and Environmental Sustainability for Biodiversity Issues”</b></li> <li>• <b>Mona Bakr</b>, Director, Nanotech Egypt Co. Inc. (Egypt)</li> </ul>
<b>10:30–11:00</b>	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
<b>11:00–13:00</b>  <b>Day 3</b>	<p><b>A7: Robotics and Biorobotics in Life Sciences (I)</b> (Great Hall)</p> <p>The convergence of biology, biotechnology, and engineering has opened promising doors for research and development. What are the different fields that are benefiting from robotics and biorobotics? What diseases can be fought with the introduction of biorobotics? What systems are more efficient thanks to robotics? The latest technologies from all over the world will be discussed.</p> <p><b>Chair: Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)  <b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li>• <b>Ronald Arkin</b>, Regents' Professor and Associate Dean, Research and Space Planning, Georgia Institute of Technology (USA)  <b>“A Robotic Mediator to Preserve Dignity in Stigmatizing Patient-Caregiver Relationships”</b></li> <li>• <b>Abderrahmane Kheddar</b>, Director, CNRS-AIST Joint Robotics Laboratory, Centre National de la Recherche Scientifique (France)  <b>“Human-centered Robotic Augmentation”</b></li> <li>• <b>Ray Johnson</b>, Executive Director, QxBranch (USA)  <b>“Robotics and Biorobotics in Life Sciences”</b></li> <li>• <b>Robert Shepherd</b>, Director, Bionics Institute, University of Melbourne (Australia)  <b>“Medical Bionics: Engineering Solutions for Neural Disorders”</b></li> <li>• <b>Round Table Discussion</b></li> </ul>		
<b>13:00–14:30</b>	Lunch Break		

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<p><b>14:30–15:30</b></p> <p><b>Day 3</b></p>	<p><b>A8: Robotics and Biorobotics in Life Sciences (II)</b> (Great Hall)</p> <p><b>Chair: Amin Shoukry</b>, Dean, Electronics, Communication, and Computer Engineering School, Egypt-Japan University of Science and Technology (Egypt)</p> <p><b>“Bio-Robotics: Bringing Biology and Robotics Together”</b></p> <p><b>Rapporteur: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li>• <b>Frank Ruffier</b>, Research Scientist, Institute of Movement Sciences, Centre National de la Recherche Scientifique (France)</li> <li>• <b>“Biomimetic Vision and Bio-inspired Robots”</b></li> <li>• <b>Nikolaos Mavridis</b>, Founder and Director, Interactive Robots and Media Lab, United Arab Emirates University (UAE) - Video message</li> <li>• <b>Victor Parque</b>, Assistant Professor, Waseda University and JSUC Professor, Egypt-Japan University of Science and Technology (Japan)</li> <li>• <b>“Aesthetic Curves and Surfaces in Life Sciences”</b></li> </ul>	<p><b>C6: Sustainable Intensification under Irrigation</b> (Small Theater)</p> <p>Co-organized with International Center for Agricultural Research in the Dry Areas (Professor Mahmoud Solh)</p> <p><b>Chair: Atef Swelam</b>, Senior Scientist, International Center for Agricultural Research in the Dry Areas (Egypt)</p> <p><b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Rehab AbdelRahman</b>, Senior Researcher, Agricultural Research Center (Egypt)</li> <li>• <b>Sami Sabri</b>, Senior Researcher, Agricultural Research Center (Egypt)</li> <li>• <b>Biju George</b>, Senior Scientist, International Center for Agricultural Research in the Dry Areas (Egypt)</li> <li>• <b>Shinan Kassam</b>, Senior Scientist, International Center for Agricultural Research in the Dry Areas (Jordan)</li> <li>• <b>Bezalet Dessalegn</b>, Senior Scientist, International Center for Agricultural Research in the Dry Areas (Egypt)</li> </ul>
<p><b>15:30–16:00</b></p>	<p>Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)</p>	

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<p style="text-align: center;"><b>16:00–17:30</b></p> <p style="text-align: center;"><b>Day 3</b></p>	<p><b>B7: Genetic Engineering: Research and Innovative Applications</b> (Great Hall)</p> <p>Our environment is evolving, and so should we. Scientists are working on researching their newest findings in the field of genome modification to better meet the needs of our world today. Applications of genetic engineering include improving nutrition, agricultural crops, and health. Different views on the recent research progress and challenges will be exchanged.</p> <p><b>Chair: Adel El-Beltagy</b>, Former Minister, Ministry of Agriculture and Land Reclamation and Chair, International Dryland Development Commission (Egypt)</p> <p><b>Rapporteur: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Marc Van Montagu</b>, Founder and Chairman, International Plant Biotechnology Outreach, Ghent University (Belgium) “Plant Sciences: Discover, Innovate, Communicate with Society”</li> <li>• <b>Klaus Ammann</b>, Professor Honorary Emeritus and Former Director, Botanic Garden, University of Bern (Switzerland) “An Introduction to Modern Plant Breeding Trends”</li> </ul>	<p><b>Round Table Discussion on “Improving Health”</b> (Small Theater)</p> <p>Today, the growing world population needs more care and awareness to improve the general health and well-being of people. Our knowledge grows, but so do external factors that jeopardize our health. We are surrounded by income fluctuations, urbanization, food treatments, and dietary changes that contribute to our well-being. It is important to pay attention to the possibility of merging most of these factors and the different lifestyles underlying people’s health.</p> <p><b>Chair: Pierre Anhoury</b>, Director, Strategy and Business Development, International Prevention Research Institute (France)</p> <p><b>Rapporteur: : Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</p> <ul style="list-style-type: none"> <li>• <b>Pierre Anhoury</b>, Director, Strategy and Business Development, International Prevention Research Institute (France)</li> <li>• <b>Christian Hugonnet</b>, Founding President, Week of Sound Association (France) “Improving Health: Contribution to the Prevention of Hearing Loss: The ‘Sound Charter’”</li> <li>• <b>Hassan Azzazy</b>, Professor, School of Sciences and Engineering, American University in Cairo (Egypt) “Innovative Diagnostics for Detection of Heavy Burden Infections and Cancer”</li> </ul>	<p><b>C7: Nanotechnology Research and Applications</b> (Delegates Hall)</p> <p>Co-organized with Arab Academy for Science, Technology and Maritime Transport</p> <p><b>Chair: Mohamed Aborizka</b>, Director, Center of Excellence, Arab Academy for Science, Technology and Maritime Transport (Egypt)</p> <p><b>Rapporteur: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Ahmed Maarouf</b>, Professor, Center for Fundamental Physics, Zewail City of Science and Technology (Egypt) “Novel Carbon-based Nanomaterial: Properties and Current Applications”</li> <li>• <b>Amal Kasry</b>, Lecturer, Faculty of Engineering, British University in Egypt (Egypt) “New Trends in Biosensors Technologies and Their Role in the Society Development”</li> <li>• <b>Ola Heikal</b>, Associate Professor and Head, Department of Pharmacology and Toxicology, German University in Cairo (Egypt) “Biological Application of Nanomaterials: Benefits versus Risk”</li> </ul>
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	<ul style="list-style-type: none"> <li>• <b>Adrian Dubock</b>, Executive Secretary, Golden Rice Project (Switzerland)  <b>“An Overview of Supplementation, Fortification, and Biofortification: Golden Rice As an Example for Enhancing Micronutrient Intake”</b></li> <li>• <b>Moemen Hanafy</b>, Professor of Plant Biotechnology, Cairo National Research Centre (Egypt)  <b>“Genetic Engineering of Grain Legumes for Improved Nutritive Value”</b></li> </ul>		<ul style="list-style-type: none"> <li>• <b>Amr Bayoumi</b>, Chair, Electronics and Communications Department, Arab Academy for Science and Technology (Egypt)  <b>“nm-Scale Electronics in Health and Environment”</b></li> <li>• <b>Amr Farouk</b>, Assistant to the President, Academy of Scientific Research and Technology (Egypt)</li> </ul>
<b>17:30–18:00</b>	Networking Coffee/ Tea Break (participants can visit the BioFair and Poster Session area)		
<b>18:00–19:00</b>	<p><b>Reporting Session (Great Hall)</b></p> <ul style="list-style-type: none"> <li>• <b>Biomedical Sciences and Engineering: Rafik Nakhla</b>, Group HR Manager, A&amp;P Group (UAE)</li> <li>• <b>Food, Nutrition, and Well-being: Ola Al-Ghazawy</b>, Senior Communication Officer, Zewail City of Science and Technology (Egypt)</li> <li>• <b>Current Practices and Future Insights: Mohammed Yahia</b>, Executive Editor, <i>Nature Middle East</i>, Nature Publishing Group (Egypt)</li> <li>• <b>TWAS BVA-NXT: Bahaa El-Gendy</b>, Assistant Professor, Chemistry Department, Benha University (Egypt)</li> <li>• <b>BioVisionAlexandria 2016 Conference at a Glance: Marwa Elwakil</b>, Deputy Director, Center for Special Studies and Programs, Academic Research Sector, Bibliotheca Alexandrina (Egypt)</li> </ul>		
<b>19:00–20:00</b>	<p><b>Closing Session (Great Hall)</b></p> <p><b>Chair: Mohamed El-Faham</b>, Special Advisor, Bibliotheca Alexandrina (Egypt)</p> <ul style="list-style-type: none"> <li>• <b>Keynote Address: Ismail Serageldin</b>, Director, Bibliotheca Alexandrina (Egypt)</li> </ul>		

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