

BioVisionAlexandria 2004

The New Life Sciences: Ethics, Patents and the Poor

Organized in Partnership with The World Life Sciences Forum BioVision

3 – 6 April 2004

at

Bibliotheca Alexandrina (BA)

Alexandria, Egypt

Program

OPENING ADDRESSES

Great Hall

10:00-11:30

Special Inauguration Session where world renowned International Political, Social and Scientific Leaders will introduce BioVision Alexandria 2004, with their views on the implications of the Life Science Revolution in today's world... (in order of presentation)

Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)

Philippe Desmarestaux, Chairman, The World Life Sciences Forum, BioVision (France)

Koji Omi, Former Minister for Science and Technology Policy (Japan)

Sherwood Rowland, Nobel Laureate, Chemistry 1995 (USA)

Mohamed Hassan, Executive Director, Third World Academy of Sciences

Jean-Marie Lehn, Nobel Laureate, Chemistry 1987 (France)

Ibrahim Badran, Former Minister of Health (Egypt)

H.E. Dr. Atef Ebeid, Prime Minister, Arab Republic of Egypt

11:30-12:00

Break (Visit the Book Fair!)

BioVision Nobel Laureates' Day

12:00-13:30

Highlights of the Biochemical Revolution

Great Hall

Chair: Francois Gros, Honorary Permanent Secretary, Academy of Sciences (France)

Ahmed Zewail, Chemistry 1999 (Egypt/USA) "BioVision at the Interface"

Jean-Marie Lehn, Chemistry 1987 (France) "Supramolecular Chemistry: Some Contributions to Life Sciences"

13:30-14:30

Break (Visit the Book Fair!)

14:30-16:00

The New Life Sciences: Implication in Civil Society

Great Hall

Chair: M. S. Swaminathan, UNESCO Chair in Ecotechnology; M.S. Swaminathan Research Foundation (India)

Ryoji Noyori, Chemistry 2001 (Japan) "Asymmetric Catalysis: Roles in Biomedical Science and Technology"

Sherwood Rowland, Chemistry 1995 (USA) "The Changing Atmosphere in 2004"

16:00-16:30

Break (Visit the Book Fair!)

16:30-18:00

Round Table Discussion: Nobel Views and Perceptions

Great Hall

Moderator: Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)

08:30-09:30

Registration

09:30-11:30

Opening Plenary Session

Great Hall

"The New Biology: A Survey of the Issues"

KeyNote BioLeaders will open The World Life Sciences Forum BioVision Alexandria 2004 by assessing the current and future applications of Life Sciences and their social or economic implications

Chair: Andrew Bennett, Executive Director, Syngenta Foundation (Switzerland)

Rapporteur: Gabrielle Persley, Chair, The Doyle Foundation (UK)

Economic Issues: Providing the Conditions for Life Science Research and Development

Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)

Ever-green Revolution and Biohappiness

M. S. Swaminathan, UNESCO Chair in Ecotechnology; M.S. Swaminathan Research Foundation (India)

New Biology for Developing Countries: Opportunities and Constraints

Malcolm Elliott, Director of The Norman Borlaug Institute for Plant Science Research (UK)

Global Biotechnology Forum in Chile: Overview and Conclusions

Massimo Garzelli, Head of Regional Office, UNIDO

11:30-12:00

Break (Visit the Book Fair and Posters' Area!)

12:00-13:30

Special Session of the EAGLES Initiative

Great Hall

The EAGLES initiative has been created to propose strategies by which the huge power of the Life Sciences and biotechnology, mostly controlled by the developed world, can be directed for the benefit of the Third World... Its working session will be the opportunity to foster concrete grounds for action.

Chair: Ismail Serageldin, Director, Bibliotheca Alexandrina,
Chairman, European Action on Global Life Sciences (EAGLES)

Members of the EAGLES Consortium including:

Huanming Yang, Professor of Genetics, Director of Beijing Genomics Institute, Chinese Academy of Sciences, Beijing (China); Co-Vice-Chairman, European Action on Global Life Sciences (EAGLES)

Boerge Diderichsen, President, European Federation of Biotechnology

Marc van Montagu, Chairman, Institute of Plant Biology for Developing Countries (Belgium)

David McConnell, Smurfit Institute of Genetics, Trinity College (Ireland)

13:30-14:30

Break (Visit the Book Fair and Posters' Area!)

14:30-18:00

Parallel Sessions (see detailed program on the following pages)

18:30-19:30

CEO Panel

Great Hall

Convener: Boerge Diderichsen, Novo Nordisk

◆ **Hassan Abbas Helmy**, Pharco

◆ **Magid Abou-Gharbia**, Wyeth

◆ **Whitney Macmillan**, Cargill

◆ **Osamu Nagayama**, Chugai Pharmaceutical Co, Ltd, JABEX

19:30-21:00

Break (Visit the Book Fair and Posters' Area!)

Parallel Session 1/4 on “Healthcare and the Poor”

Life Sciences Applications to New Healthcare in Low Resource Environments: High Hopes?

Rapporteur: Rafik Nakhla, Bibliotheca Alexandrina (Egypt)

Sunday, 4 April 2004

- 14:30-16:00** **State of the Art (Panel 1)** **West Hall**
- Chair:** **Ibrahim Badran**, Former Egyptian Minister of Health (Egypt)
- Discussant:** **Brian Clark**, President, International Union of Biochemistry and Molecular Biology, Aarhus University (Denmark)
- **Muhammad Choudhary**, Acting Director, HEJ Institute of Chemistry, University of Karachi (Pakistan)
“Medicinal Plants-Importance in Health and Economy”
 - **Claude Jasmin**, Founding President, International Council for Global Health Progress (France)
“Losing Life”
 - **Sir Peter Lachmann**, Past President, Academy of Medical Sciences (UK)
“The Enduring Threat of Infectious Disease”
- 16:00-16:30** *Break (Visit the Book Fair and Posters' Area!)*
- 16:30-18:00** **Technical Papers/Case Studies (Panel 5)** **West Hall**
- Chair:** **Sir Peter Lachmann**, Past President, Academy of Medical Sciences (UK)
- Discussant:** **Claude Jasmin**, Founding President, International Council for Global Health Progress (France)
- **Stephen Jarrett**, Deputy Director, Supply Division, UNICEF
“Vaccine Security: Ensuring the Uninterrupted Sustainable Supply of Affordable Vaccine to developing Countries”
 - **Cherif Matta**, Chemistry Department, University of Toronto (Canada)
“Computational Chemistry: A Powerful and Inexpensive Tool for basic and applied research in the life sciences”
 - **Noel Murphy**, Department of Genetics, Smurfit Institute of Genetics, Trinity College (Ireland)
“Delivering Practical, Sustainable Solutions for Problems of Neglected Diseases in the Post-genomics Era”
- 18:30-19:30** **CEO Panel** **Great Hall**
- 19:30-21:00** *Break (Visit the Book Fair and Posters' Area!)*

Monday, 5 April 2004

- 09:00-10:30** **Technical Papers/Case Studies (Panel 9)** **West Hall**
- Chair:** **Mamdouh Gabr**, Secretary General, Egyptian Red Crescent (Egypt)
- Discussant:** **Werner Christie**, Former Minister of Health,; President, World Health Connections (Norway)
- **Stefan Ehlers**, Head of Department, Borstel Leibniz Center for Medicine and Biosciences (Germany)
“Genetics and Biotechnology in Tuberculosis Research: Ethical Issues”
 - **Magid Abou Gharbia**, Vice President, Wyeth Research (Egypt/USA)
“Impact of Chemical and Screening Technologies in Drug Discovery”
 - **Annica Dahlstrom**, Professor, Cell Biology, Göteborg University (Sweden)
“Women's and men's brains and the intellectual power”
- 10:30-11:00** *Break (Visit the Book Fair and Posters' Area!)*
- 11:00-12:30** **Issues and Options (Panel 13) (round table discussion)** **West Hall**
- Chair:** **Albert Sasson**, Former Assistant Director-General of UNESCO (Morocco)
- Panel Head:** **Werner Christie**, Former Minister of Health,; President, World Health Connections (Norway)
“Global Health Challenges and the Impact of Biotech Community on the Developing World”
- **Stephen Jarrett**, Deputy Director, Supply Division, UNICEF

- **David Bennett**, Acting General Secretary, European Federation of Biotechnology (Netherlands)
- **Effat Badr**, Professor of Genetics, Alexandria University (Egypt)

Parallel Session 2/4 on “Agriculture and Safe Food Sufficiency”

AgBiotech for Higher Food Safety and Higher Productivity: Application and Inclusion Processes

Rapporteur: Cynthia Schneider, Ass. Professor, Georgetown University; Former US Ambassador

Sunday, 4 April 2004

14:30-16:00 **State of the Art (Panel 2)** **Great Hall**

- Chair:** **Gabrielle Persley**, Chair, the Doyle Foundation (UK)
- Discussant:** **Rudy Rabbinge**, University Professor at the Executive Board of Wageningen UR (Netherlands)
- **Patrick Cunningham**, Department of Genetics, Trinity College Dublin (Ireland)
“New times, New Challenges”
 - **Marc van Montagu**, Chairman, Institute of Plant Biotechnology for Developing Countries (Belgium)
 - **Magdi Madkour**, President, Agriculture Research Centers, Ministry of Agriculture (Egypt)
“Science and Technology Strategy for Improving Agricultural Productivity in Egypt”

16:00-16:30 *Break (Visit the Book Fair and Posters' Area!)*

16:30-18:00 **Technical Papers/Case Studies (Panel 6)** **Great Hall**

- Chair:** **Rudy Rabbinge**, University Professor at the Executive Board of Wageningen UR (Netherlands)
- Discussant:** **C. S. Prakash**, Director, Center for Plant Biotechnology Research at Tuskegee University (USA)
- **Ingo Potrykus**, Professor Emeritus, Institute of Plant Sciences (Switzerland)
“Developments Beyond Golden Rice”
 - **Mouin Hamze**, President, International Center for Advanced Mediterranean Agronomic Studies (Lebanon)
“CIHEAM: an intergovernmental organization supporting development in the Mediterranean area”
(Presented by Mohamed Nawar, President of Scientific Advisory Commission of CIHEAM)
 - **Hanaiya El Itriby**, Director, Agricultural Genetic Engineering Research Center (Egypt)
“Biotechnology Serving Agricultural Development in Egypt”
 - **Adel El Beltagy**, Director General, International Center for Agricultural Research in Dry Areas (Syria)
“Harnessing new science for sustainable agriculture in dry areas”
(Presented by Richard Cross, Director of the Germplasm Program of ICARDA)

18:30-19:30 **CEO Panel** **Great Hall**

19:30-21:00 *Break (Visit the Book Fair and Posters' Area!)*

Monday, 5 April 2004

09:00-10:30 **Technical Papers/Case Studies (Panel 10)** **Great Hall**

- Chair:** **Alexander Von Der Osten**, Former Director, Consultative Group on International Agricultural Research (Germany)
- Discussant:** **Marilia Nutti**, Biosafety and Human Nutrition Researcher, National Research Center on Food Technology, Embrapa (Brazil)
- **Ronnie Coffman**, Chair, Department of Plant Breeding, Director, International Programs/CALS, Ithaca (USA)
“The Agricultural Biotechnology Support Project II”
 - **Randy Hautea**, ISAAA Global Coordinator and SEAsia Director (Philippines)
“Transferring Technology and Knowledge to Develop Biotechnology-derived Tropical Crops”
 - **Willy de Greef**, Executive Director, International Biotech Regulatory Services (Belgium)
“Agriculture in the age of regulation”

10:30-11:00 *Break (Visit the Book Fair and Posters' Area!)*

11:00-12:30 **Issues and Options (Panel 14) (round table discussion)** **Great Hall**

- Chair:** **Ingo Potrykus**, Professor Emeritus, Institute of Plant Sciences (Switzerland)
- Panel Head:** **Roger Beachy**, President, Donald Danforth Plant Science (USA)
“Developing Partnerships to Facilitate Agriculture Biotechnology for Developing Economies”
- **C. S. Prakash**, Director of the Center for Plant Biotechnology Research, Tuskegee University (USA)
 - **Willy de Greef**, Executive Director, International Biotech Regulatory Services (Belgium)

- **Marc van Montagu**, Chairman, Institute of Plant Biotechnology for Developing Countries (Belgium)
- **Alexander Von Der Osten**, Former Director, Consultative Group on International Agricultural Research (Germany)

Parallel Session 3/4 on

“Exploiting Biodiversity and Protecting the Environment”

*Exploiting Natural Resources while Preserving Biodiversity and Protecting the Environment:
What is the Secret Formula?*

Rapporteur: Salah Soliman, Professor, Faculty of Agriculture, Alexandria University (Egypt)

Sunday, 4 April 2004

14:30-16:00 **State of the Art (Panel 3)** **East Hall**

Chair: **Michael Cernea**, Former Senior Adviser for Sociology and Social Policy, the World Bank

Discussant: **Eric Huttner**, General Manager, Diversity Arrays Technology Pty Limited (Australia)

- **Farouk El-Baz**, Director, Center for Remote Sensing Boston University (USA)
“Space platforms as environmental monitors”
- **Klaus Ammann**, Director, Botanical Garden, University of Bern (Switzerland)
“Impact of Agriculture on Biodiversity”
- **Coosje Hoogendoorn**, Deputy Director General, International Plant Genetic Resources Institute (Italy)
“Agricultural Biodiversity for Sustainable Development: Strengthening the Knowledge Base”

16:00-16:30 *Break (Visit the Book Fair and Posters' Area!)*

16:30-18:00 **Technical Papers/Case Studies (Panel 7)** **East Hall**

Chair: **Eric Huttner**, General Manager, Diversity Arrays Technology Pty Limited (Australia)

Discussant: **Brian Johnson**, Head of Biotechnology Advisory Unit, English Nature (UK)

- **Weber Amaral**, Senior Scientist, International Plant Genetic Resources Institute (Italy)
“Application of Biotechnology Tools on Biodiversity and Biocomplexity Studies”
- **Mahmoud Solh**, Director, Plant Production & Protection Division, Agricultural Department, FAO
“Agrobiodiversity, People and the Environment”
- **Ahmed Amri**, Biodiversity Project Coordinator, West Asia Regional Program, ICARDA (Morocco)
“Preventing land degradation and loss of agrobiodiversity in dryland ecosystems in West Asia”

18:30-19:30 **CEO Panel** **Great Hall**

19:30-21:00 *Break (Visit the Book Fair and Posters' Area!)*

Monday, 5 April 2004

09:00-10:30 **Technical Papers/Case Studies (Panel 11)** **East Hall**

Chair: **Nadia Makram Ebeid**, Former Minister of State for Environmental Affairs (Egypt)

Discussant: **Emile Frison**, Director General, International Plant Genetic Resources Institute (Italy)

- **Eric Huttner**, General Manager, Diversity Arrays Technology Pty Limited (Australia)
“Diversity Arrays Technology, A Novel Tool for Harnessing the Genetic Potential of Orphan Crops”
- **Antonio Paes De Carvalho**, General Director, Extracta Moléculas Naturais Ltda (Brazil)
“Intellectual property in Accessing Biodiversity”
- **C. S. Prakash**, Director, Center for Plant Biotechnology Research at Tuskegee University (USA)
“Agriculture Biotechnology: Its Impact on Biodiversity”

10:30-11:00 *Break (Visit the Book Fair and Posters' Area!)*

11:00-12:30 **Issues and Options (Panel 15) (round table discussion)** **East Hall**

Chair: **Jim Peacock**, President, Australian Academy of Science (Australia)

Panel Head: **Brian Johnson**, Head of Biotechnology Advisory Unit, English Nature (UK)
“Is Biosafety only the first step towards more sustainable cropping systems?”

- **Weber Amaral**, Senior Scientist, International Plant Genetic Resources Institute (Italy)

- **Mahmoud Solh**, Director, Plant Production & Protection Division, Agricultural Department, FAO
- **Nadia Makram Ebeid**, Former Minister of State for Environmental Affairs (Egypt)

Parallel Session 4/4 on “Trade, Patents and Developing Countries”

Facing the Issue: How can Free Trade and the Patent System Benefit Developing Countries?

Rapporteur: Frederick Erbisch, Former Director, Office of Intellectual Property, Michigan State University (USA)

Sunday, 4 April 2004

14:30-16:00 **State of the Art (Panel 4)** Middle Hall

Chair: **Claudio Carlone**, Hypothesis Communication Agency (Italy)

Discussant: **Philip Pardey**, Professor of Science and Technology Policy, Department of Applied Economics
University of Minnesota (USA)

- **Malcolm Elliott**, Director of The Norman Borlaug Institute for Plant Science Research (UK)
“IPR: Must there be a Conflict between Commercial Need and Humanitarian Benefits?”
- **Carlos Romeo-Casabona**, Director, Inter-University Chair BBV Foundation - Provincial Government of
Biscay in Law and the Human Genome (Spain)
“Intellectual Property Rights and the controversy between Developed and Developing Countries: is it ethical to take care for animals suffering but to forget the needs for survival of humans?”
- **Zhu Chen**, Vice President, Chinese Academy of Sciences (China)
“Filling the South-North gap in life science and biotechnology through capacity building, innovation and benefit sharing: View from a Chinese life scientist”

16:00-16:30 *Break (Visit the Book Fair and Posters' Area!)*

16:30-18:00 **Technical Papers/Case Studies (Panel 8)** Middle Hall

Chair: **Mohamed Hassan**, Executive Director, Third World Academy of Sciences

Discussant: **David Bennett**, Acting General Secretary, European Federation of Biotechnology (Netherlands)

- **Claudio Carlone**, Hypothesis Communication Agency (Italy)
“Venture Capital, Patents and the Market: The Case-Study of Biotechnology in Italy”
- **Willy de Greef**, Executive Director, International Biotech Regulatory Services (Belgium)
“Non-Conventional IPR Issues”
- **Philip Pardey**, Professor of Science and Technology Policy, Department of Applied Economics, University of
Minnesota (USA)
“Agricultural R&D and Crop-related IPRs”

18:30-19:30 **CEO Panel** Great Hall

19:30-21:00 *Break (Visit the Book Fair and Posters' Area!)*

Monday, 5 April 2004

09:00-10:30 **Special Session on Intellectual Property Rights (Panel 12)** Middle Hall

- **Ismail Serageldin**, Director, Bibliotheca Alexandrina (Egypt)
- **Carl-Gustaf Thornström**, Senior Research Advisor, Agriculture Department for Research Cooperation,
Sida/SAREC (Sweden)
- **Philip Pardey**, Professor of Science and Technology Policy, Department of Applied Economics, University of
Minnesota (USA)

10:30-11:00 *Break (Visit the Book Fair and Posters' Area!)*

11:00-12:30 **Issues and Options (Panel 16) (round table discussion)** Middle Hall

Chair: **Philip Pardey**, Professor of Science and Technology Policy, Department of Applied Economics,
University of Minnesota (USA)

Panel Head: **David McConnell**, Co-Vice Chairman of European Action on Global Life Sciences; Professor
at Smurfit Institute of Genetics, Trinity College (Ireland)
“Managing the risks of biotechnology”

- **Yuan Zheng-Hong**, Vice-Dean, Medical College, Fudan University (China)
- **Carl-Gustaf Thornström**, Senior Research Advisor, Agriculture Department for Research Cooperation,
Sida/SAREC (Sweden)
- **Carlos Romeo-Casabona**, Director, Inter-University Chair BBV Foundation - Provincial Government of
Biscay in Law and the Human Genome (Spain)

Monday, 5 April 2004

09:00-12:30 **Parallel Sessions** (see program on previous pages)

12:30-13:30 *Break (Visit the Book Fair and Posters' Area!)*

13:30-15:00

Promises and Delivery: Great Hall
Inventing New Partnerships (Plenary Session)

From new biology to its universal applications: common elaboration of new partnerships

Chair: **Philippe Desmarescaux**, Chairman, The World Life Sciences Forum, BioVision (France)

Discussant: **Andrew Bennett**, Executive Director, Syngenta Foundation (Switzerland)

Rapporteur: **Gabrielle Persley**, Chair, The Doyle Foundation (UK)

Jim Peacock, President, Australian Academy of Science (Australia)
"Partnerships for Success"

M. S. Swaminathan, UNESCO Chair in Ecotechnology; M.S. Swaminathan Research Foundation (India)
"Towards an Era of Symbiotic Biopartnerships"

Ysbrand Poortman, Vice President, World Alliance of Organizations for the Prevention of Birth Defects
(Netherlands)

"A Global Partnership of Scientists, Doctors and Patients' Organizations Working on Prevention and Management of Genetic Disease and Birth Defects"

15:00-15:30 *Break (Visit the Book Fair and Posters' Area!)*

15:30-17:00

Capacity Building in Science & Technology (Plenary Session) Great Hall

"Inventing a Better Future: A Strategy for Building Worldwide Capacities in Science and Technology" with the InterAcademy Council's Report as the support of the discussion...

Chair: **Margaret Catley-Carlson**, Chair, Global Water Partnership (USA)

Rapporteur: **Gabrielle Persley**, Chair, The Doyle Foundation (UK)

Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)

Muhammad Choudhary, Director, HEJ Institute of Chemistry, University of Karachi (Pakistan)

Mamphela Ramphela, Managing Director, the World Bank

Mohamed Hassan, Executive Director, Third World Academy of Sciences

17:00-18:00 *Library Tour*

18:00 **EAGLES Reception** Middle Hall
"EAGLES: Come and Meet"

09:00-10:30

Reporting Plenary Session:

Great Hall

Conclusions and Recommendations from the Parallel Sessions

Conclusions and Recommendations of the four Parallel Sessions will be presented and open to discussion to all the participants of the Forum, opening grounds for new collaborations and concrete implementations

Chair: Gabrielle Persley, Chair, The Doyle Foundation (UK)

Healthcare and the Poor

Rafik Nakhla, Bibilotheca Alexandrina (Egypt)

Agriculture and Safe Food Sufficiency

Cynthia Schneider, Associate Professor, Georgetown University, Former US Ambassador (USA)

Exploiting Biodiversity and Protecting the Environment

Salah Soliman, Professor, Faculty of Agriculture, University of Alexandria (Egypt)

Trade, Patents and Developing Countries

Frederick Erbisch, Former Director, Office of Intellectual Property at Michigan State University (USA)

10:30-11:00

Break (Visit the Book Fair and Posters' Area!)

11:00-12:30

Closing Plenary Session

Great Hall

International Leaders will close The World Life Sciences Forum BioVision Alexandria 2004 by sharing their views and hopes on the universal applications of Life Sciences.

The BioVision Award

The session will start with the presentation of the BioVision Award, given to young scientists who are achieving projects for the development and application of new technologies of Life Sciences, to benefit developing countries.

Chair: Ismail Serageldin, Director, Bibliotheca Alexandrina (Egypt)

Mamphela Ramphela, Managing Director, the World Bank

Francois Gros, Honorary Permanent Secretary, Academy of Sciences (France)

Philippe Desmarescaux, Chairman, The World Life Sciences Forum, BioVision (France)