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THE 23rd CONFERENCE OF THE
ISLAMIC WORLD ACADEMY OF SCIENCES (IAS) ON

SCIENCE, TECHNOLOGY AND INNOVATION (STI) UNDER EVER CHANGING GLOBAL EVENTS

15 - 16 DECEMBER 2021
RABAT - MOROCCO

CONFERENCE BROCHURE



مؤسسة الكويت للتقدم العلمي
Kuwait Foundation for the Advancement of Sciences



CONFERENCE PROGRAM

WEDNESDAY 15 DECEMBER 2021

INAUGURAL SESSION

- 10:00 – 10:05** A recitation from the **Holy Qur'an**.
- 10:05 – 10:15** Address of **Dr. Omar Fassi-Fehri**, Permanent Secretary, Hassan II Academy of Science and Technology, Rabat, Morocco.
- 10:15 – 10:25** Address of **H.E. Dr. Abdel Salam Majali FIAS**, President of the Islamic World Academy of Sciences (IAS), Jordan.
- 10:25 – 10:35** Message of **H.E. the President of the Islamic Republic of Pakistan** and Patron of the Islamic World Academy of Sciences (IAS), Pakistan.
- 10:35 – 11:15** Address of **H.R.H. Prince El-Hassan bin Talal**, Founding Patron of the Islamic World Academy of Sciences (IAS), Jordan.
- Induction of new IAS Fellows.
- Induction of *Dr. Ameenah Gurib-Fakim*, laureate of the IAS-COMSTECH Ibrahim Memorial Award.
- 11:15 – 11:30** **Coffee Break.**

SESSION 1: KEYNOTES CO-CHAIRS: M. ASGHAR FIAS AND

- 11:30 – 12:00** **Novel Theragnostic Approaches for Personalized Cancer Care**
Bulent Aydogan, Associate Professor and Director of Medical Physics at the University of Chicago Pritzker School of Medicine, USA.
- 12:00 – 12:30** **Bionanotechnology Towards Environment-Friendly Agriculture**
Irfan Ahmad, Executive Director for Interdisciplinary Initiatives at the Grainger College of Engineering; and Executive Director for the Health Maker Lab at the Carle Illinois College of Medicine, University of Illinois at Urbana-Champaign, USA.
- 12:30 – 13:00** **Biotechnology Regional Hub, Why not? The Case of Vaccines**
Salah Mamajdeh, Government Affairs Advisor/MENA, Hikma Pharmaceuticals, Jordan.
- 13:00 – 13:30** **Water Resources Management: Issues and Impacts on the Member Countries of Organization of Islamic Cooperation**
Murad Bino, Former Executive Director of the Inter-Islamic Network on Water Resources Development and Management (INWRDAM), Jordan.
- 13:30 – 15:00** **Lunch.**

SESSION 2
CO-CHAIRS: ZABTA SHINWARI FIAS AND

- 15:00 – 15:30** **Post-COVID Higher Education: Lessons from a Pandemic**
Adnan Badran FIAS, Chancellor of the University of Petra and the Chairman of the Board of Trustees of the University of Jordan, Jordan.
- 15:30 – 16:00** **Energy Security between Nuclear, Renewable and Nanotechnologies**
Munir Nayfeh FIAS, Professor, Department of Physics, University of Illinois at Urbana-Champaign, USA.
- 16:00 – 16:30** **Bricklaying at Nanoscale**
Mostapha Bousmina, President, Euromed University of Fes and Chancellor, Hassan II Academy of Science and Technology, Rabat, Morocco.
- 16:30 – 17:00** **Vaccines Development and Manufacturing Potential in OIC Countries**
Abdullah Al Musa, Director General, Islamic World Academy of Sciences (IAS), Amman, Jordan.
- 17:00 – 17:30** **Reconciling Agro-Biodiversity Conservation with Food and Nutrition Security in a Changing Climate**
Ameenah Gurib-Fakim FIAS, Former Head of State, Republic of Mauritius.
- 20:00 – 22:00** **Dinner.**

THURSDAY 16 DECEMBER 2021

SESSION 3

CO-CHAIRS: ELIAS BAYDOUN FIAS AND

- 09:30 – 10:00** **On the Epigenetics as a Toxicological Mechanism Causing Human Degenerative Diseases**
Mohammad Abdollahi FIAS, Head, Institute of Pharmaceutical Sciences (TIPS), Tehran University of Medical Sciences, Tehran, Iran.
- 10:00 – 10:30** **The Role of Antioxidants and Nutraceuticals in Promotion of Lifestyle and Health**
Ali A. Moosavi-Movahedi FIAS, Institute of Biochemistry and Biophysics, University of Tehran, Iran.
- 10:30 – 11:00** **Genomic Surveillance of SARS-CoV2 in Morocco: A Major Component of the Integrative Approach Adopted by the Hassan II Academy of Sciences and Techniques to Support Biomedical Research on COVID-19**
Elmostafa El Fabime, professor at National Center for Scientific and Technical Research (CNRST) and Head of Functional Genomic platform, Rabat, Morocco.
- 11:00 – 11:30** **Water for Development and Development for Water: Realizing the Sustainable Development Goals (SDGs) Vision**
Mohamed Ait Kadi, President of the General Council of Agricultural Development and Resident Member of Academy Hassan II of Science and Technology, Rabat, Morocco.
- 11:30 – 12:00** **Discussion on “COVID-19 Weapon” from Material Science and Material Technology Point of View**
Abmet Hikmet Ucisik FIAS, Turkish Aerospace and Atılım University, Ankara, Turkey.
- 12:00 – 12:30** **IAS 2021 Rabat Declaration on STI Under Ever Changing Global Events.**
- 12:30 – 13:00** **Coffee Break.**
- 13:00 – 14:00** 23rd General Assembly Meeting (IAS Fellows only).
- 14:00 – 15:00** **Lunch.**
- 20:00 – 22:00** **Dinner.**