

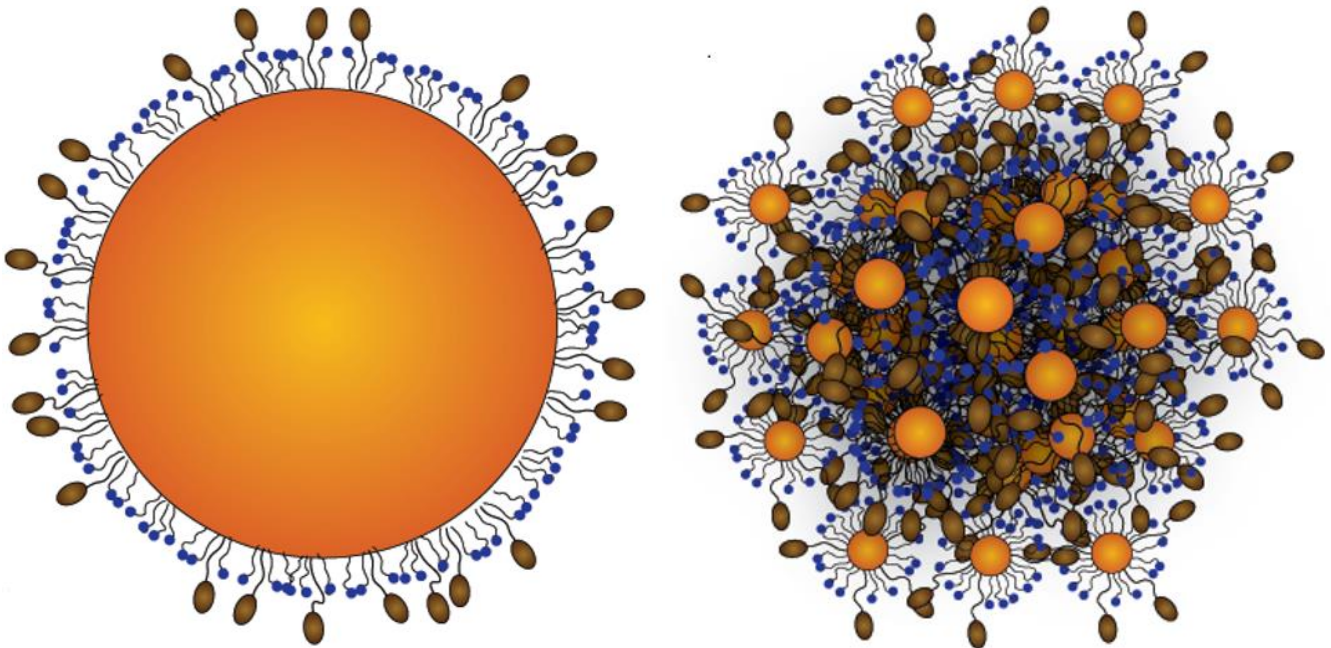


# **International Workshop on Nanomedicine – Development & Challenges**

**Venue: COMSTECH Secretariat, Islamabad**

**March 15-17, 2021**

## **Programme**



**Day-1 (March 15, 2021) – Monday**  
(Timing according to Pakistan Standard Time)

**Inaugural Session**

09:00 - 09:30	<b>Registration</b>
09:30-09:35	<b>Recitation of the Holy Quran</b>
09:35-09:40	<b>Welcome to the Participants</b> <i>Ms. Khazima Muazim</i>
09:40-09:55	<b>Keynote Address: Nanotechnology &amp; the Evolution of Nanomedicine</b> <i>Prof. Dr. N.M. Butt s. I.</i> <i>Fellow, Pakistan Academy of Sciences</i>
09:55-10:05	<b>Welcome Address</b> <i>H.E. Prof. Dr. M. Iqbal Choudhary H. I., S. I., T. I.</i> <i>Coordinator General, COMSTECH</i>
10:05-10:20	<b>Inaugural Address</b> <i>Dr. Arshad Mahmood (Chief Guest)</i> <i>Federal Secretary, Ministry of Science &amp; Technology, Govt. of Pakistan</i>
10:20-10:25	<b>Vote of Thanks</b> <i>Prof. Dr. Irshad Hussain (LUMS)</i>
10:25-11:00	<b>Tea Break</b>
<b>Session I – Functional Materials for Disease Sensing and Treatment</b>	
<i>Chair: Prof. Dr. M. Iqbal Choudhary H. I., S. I., T. I.</i>	
11:00-11:45	<b>Ultrashort Collagen-Mimetic Peptides for Regenerative Therapies</b> <i>Prof. Dr. Charlotte A. Hauser (Time in KSA 09:00-09:45)</i> <i>King Abdullah University of Science &amp; Technology (KAUST), Kingdom of Saudi Arabia</i>
11:45-12:25	<b>Functional Nanoparticles for Biosensing and Drug Delivery</b> <i>Prof. Dr. Irshad Hussain</i> <i>Lahore University of Management Sciences (LUMS), Lahore, Pakistan</i>
12:25-13:05	<b>Design &amp; Synthesis of Nanomaterials for Drug Delivery Applications</b> <i>Prof. Dr. Muhammad Raza Shah</i> <i>International Center for Chemical &amp; Biological Sciences (ICCBS), The University of Karachi, Pakistan</i>
13:05 – 14:05	<b>Lunch and Prayer Break</b>
<b>Session 2 – Functional Nanoparticles for Biomedical Applications</b>	
<i>Chair: Prof. Dr. NM Butt s. I. Co-Chair: Prof. Dr. Najam-ul-Haq</i>	
14:15-15:00	<b>Colloids for Biological Applications</b> <i>Prof. Dr. Wolfgang J. Parak (Time in Germany: 10:15-11:00)</i> <i>University of Hamburg, Germany</i>
15:00-15:45	<b>DNA Functionalized Nanoparticles for Sensing and Drug Delivery</b> <i>Prof. Dr. Antonios G. Kanaras (Time in UK: 10:00-10:45)</i> <i>University of Southampton, United Kingdom</i>
15:45 -16:30	<b>The Conundrum of Membrane Penetration by Nanoparticles</b> <i>Prof. Dr. Mathias Brust (Time in UK: 10:45-11:30)</i> <i>University of Liverpool, United Kingdom</i>

**Day-2 (March 16, 2021) -Tuesday**

**Session II –Nanotechnology for Diagnostics and Clinical Applications**

*Chair: Prof. Dr. Muhammad Raza Shah T.I. Co-Chair: Dr. Muhammad Yar*

09:30-10:30	<i>Micro fluidics and Nanotechnology for biomedical diagnostics at the point of care Prof. Dr. Rashid Bashir (Time in Urbana, Illinois, USA: 22:30-23:30) University of Illinois at Urbana Champaign (UIUC), Illinois, USA</i>
10:30-11:10	<i>Critical Sample Handling Maneuvers for Enriching Signaling Biomolecules by Diverse Functionalized Nanomaterials: An Overview Prof. Dr. Najam-ul-Haq Bahauddin Zakarriya University, Multan</i>
11:10-11:30	<i>Tea Break</i>
11:30-12:10	<i>Aerosolized Nanohubs for the Targeted Drugs Smart Delivery for Pulmonary Route Prof. Dr. Mohd Basyaruddin Abdul Rahman (Time in Malaysia: 14:30-15:10) Universiti Putra, Serdang, Selangor, Malaysia</i>
12:10-12:50	<i>Facile Synthesis of Pure and Ag Loaded WO<sub>3</sub> Nano-catalysts for Photo-induced Killing of HeLa Cancer Cells Prof. Dr. Muhammad Ashraf Gondal (Time in KSA: 10:10-10:50) King Fahd University of Petroleum &amp; Minerals, Dharan, Kingdom of Saudi Arabia</i>
12:50-13:20	<i>A history of our working on pro-angiogenic agents: Developing interdisciplinary research that can translate to the clinic Dr. Muhammad Yar Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad (CUI), Lahore Campus</i>
13:20-14:20	<i>Lunch and Prayer Break</i>
	<i>Islamabad tour</i>

## Day-3 (March 17, 2021) – Wednesday

### Session III – Nano-antimicrobials

<i>Chair: Prof. Dr. Irshad Hussain</i> <i>Co-Chair: TBD</i>	
09:30-10:30	<i>Nanomaterials for fighting antibiotic-resistant bacterial infections</i> <i>Prof. Dr. Vincent M. Rotello (Recorded)</i> <i>University of Massachusetts, Amherst, USA</i>
10:30-11:30	<i>Supramolecular Antivirals</i> <i>Prof. Dr. Francesco Stellacci (Time in Switzerland 06:30-07:30)</i> <i>EPFL, Lausanne, Switzerland</i>
11:30-11:40	<i>Closing Session</i>