



**PROGRAM**

# **Biomaterials World Forum**

**March 17-19, 2022 | Barcelona, Spain**

# **BioMat-2022**

Day 1 March 17, 2022

Main Hall

08:00 - 09:00 Registrations

09:00 - 09:15 [Introduction & Opening Words](#)

Honorary Speech by Chair:

Plenary Session

09:15 - 09:55 [Title: Designing Functional Delivery Systems for Biomedical Applications](#)

Loo Say Chye Joachim, Nanyang Technological University, Singapore

09:55 - 10:35 [Title: Versatile Carbon Dots in Modern Medicine](#)

Roger M. Leblanc , University of Miami, USA

10:35 - 11:15 [Title: Artificial Cells with emphasis on Biomaterial](#)

Thomas Ming Swi Chang, Artificial Cells & Organs Research Centre,  
Canada

11:15 - 11:30 Coffee Break

11:30 - 12:10 [Title: Nature's Nano Machines](#)

Temple F Smith, University of Colorado, USA

12:10 - 12:50 [Title: Intelligent Biomaterials](#)

Seeram Ramakrishna, National University of Singapore, Singapore

12:50 - 13:00 Group photo

13:00 - 14:00 Lunch Break

Keynote Session

14:00 - 14:30 [Title: Electrospun Nanofibers for Biomedical Applications](#)

Jingwei Xie, University of Nebraska Medical Center, USA

14:30 - 15:00 [Title: Will update soon](#)

Carlos Roberto Grandini, Universidade Estadual Paulista, Brazil

## Invited Session

15:00 - 15:25	<a href="#">Title: Network Modelling for Newly Bio-Production Approaches</a> Sachiyo Aburatani, National Institute of Advanced Industrial Science and Technology, Japan
15:25 - 15:50	<a href="#">Title: Will update soon</a> Kareen Coulombe, Brown University, USA
15:50 - 16:15	<a href="#">Title: Biomineralization in the brain</a> Martin Kopani, Comenius University, Slovakia
16:15- 16:30	Coffee Break
16:30 - 16:55	<a href="#">Title: Marine Collagen-Based Biomaterials for Skin Regeneration - A Waste Valorization Strategy</a> Stefania Marzorati, University of Milan, Italy
16:55 - 17:20	<a href="#">Title: Recent Advances in Biotribology</a> T. V. V. L. N. Rao, Madanapalle Institute of Technology & Science, India
17:20 - 18:00	Slots are available
End of the Sessions	

## Day 2 March-18, 2022

### Plenary Session

09:00 - 09:40	<a href="#">Title: Will update soon</a> Peter X Ma, The University of Michigan School of Dentistry, USA
09:40 - 10:20	<a href="#">Title: Stimuli-sensitive systems for Drug Delivery</a> Vladimir Torchilin, Northeastern University, USA
10:20 - 11:00	<a href="#">Title: 20+ Years of Commercializing Nanomedicine from University Research: What's Worked, What's Failed, and Lessons Learned</a> Thomas J. Webster, Interstellar Therapeutics, USA
11:00 - 11:15	Coffee Break

11:15 - 11:55	<p>Title: Surgical and Diagnostics with Lasers for Damaged Hard-Soft Tissue Restoration</p> <p>"Animesh Jha, University of Leeds, United Kingdom</p>
11:55 - 12:35	<p>Title: Pre-setting the Operating Temperature in Magnetic Hyperthermia</p> <p>"Paulo Cesar De Moraes, Catholic University of Brasilia, Brazil</p>
12:35 - 13:15	<p>Title: Making the Hospital a Safer Place by the Sonochemical Coating of all its Textiles and Medical Devices with Antibacterial Bacterial Nanoparticles</p> <p>Aharon Gedanken, Bar-Ilan University, Israel</p>
13:15 - 14:15	Lunch Break
Invited Session	
14:15 - 14:40	<p>Title: Wool keratin: Extraction, Processing and Applications in the Bio-medical Sector</p> <p>Marina Zoccola, Italian National Research Council, Italy</p>
14:40- 15:05	<p>Title: Soft Nanopositioning Actuators towards Biological Micro/Nanomanipulation</p> <p>Hairong Chen, Ningbo University, China</p>
15:05 - 15:30	<p>Title: Will update soon</p> <p>Maria Eugenia Contreras Garcia, Institute of Metallurgy and Materials, Mexico</p>
15:30 - 15:55	<p>Title: Shape Memory Polyurethane-Based Nano Fiber, Yarn and Coil for Soft Actuation.</p> <p>Xiaoyu Guan, Beijing Institute of Fashion Technology, China</p>
15:55 - 16:10	Coffee Break
16:10 - 16:35	<p>Title: Poly (Sebacic Anhydride) Microparticles Loaded with Hydrophobic Gentamycin for the Treatment of Pulmonary Infections</p> <p>Konrad Kwiecien, AGH University of Science and Technology, Poland</p>
16:35 - 17:00	<p>Title: Will update soon</p> <p>Gauthier Menassol, Grenoble Alpes University, France</p>
17:00 - 18:00	Slots are available
Closing the conference for Day 2	

Day 3 March-19, 2022

## Plenary Session

09:00 - 09:40	<a href="#">Title: Simple and Smart Lipid DNA Nanoparticles for Non-Viral Gene Therapy of Inherited Retina Degenerations</a>
	Zheng-Rong Lu, Case Western Reserve University, USA

## Invited Session

09:40 - 10:05	<a href="#">Title: Multifunctionalinjectable Inks for Extrusion-Based Additive Manufacturing Techniques</a>
	Susana Olhero, University of Aveiro, Portugal
10:05 - 10:30	<a href="#">Title: Will update soon</a>
	Quankui Lin, Wenzhou Medical University, China
10:30 - 10:55	<a href="#">Title: Will update soon</a>
	Anderson Sunda-Meya, Xavier University of Louisiana, USA
10:55 - 11:20	<a href="#">Title: Graphene Field-Effect-Transistor-Based Biosensors for The Detection of Diseasemarkers</a>
	Sami Ramadan, Imperial College, UK

11:20 - 11:35 Coffee Break

11:35 - 12:00	<a href="#">Title: Will update soon</a>
	Pandelis Kourtessis, University of Hertfordshire, United Kingdom
12:00 - 12:25	<a href="#">Title: Will update soon</a>
	Kenneth Scott Hettie, Stanford University, USA

12:25 - 16:00 Slots are available

## Posters

P-001	<a href="#">Title: Will update soon</a>
	Giordana Martinelli, University of Milan, Italy
P-002	<a href="#">Title: Will update soon</a>
	Nilza Ribeiro, University of Aveiro, Portugal
P-003	<a href="#">Title: Synthesis of New Polymer Composites based on Chitosan and BODIPY Dyes for Potential application in Biomedicine</a>
	Aleksander Smolarkiewicz-Wyczachowski, Nicolaus Copernicus University, poland

P-004	<p>Title: <a href="#">Synthesis of Starch Containing A Hydrazine Bond as A Potential Carrier of Anti-Cancer Drugs</a></p> <hr/> <p>Pawel Nowak, Nicolaus Copernicus University, Poland</p>
P-005	<p>Title: <a href="#">The Effect of Dinucleoside Polyphosphate Analogs on the Catalytic Activity of Human Adenylate Kinase</a></p> <hr/> <p>Magdalena Grzegorska, Nicolaus Copernicus University, Poland</p>
P-006	<p>Title: <a href="#">Preliminary Study of Novel Poly(Anhydride-Ester)S as Potential Drug Delivery Materials for Bone Tissue</a></p> <hr/> <p>Konrad Kwiecien, AGH University of Science and Technology, Poland</p>
P-007	<p>Title: <a href="#">Fabrication and properties of keratoses/sericin Blend Films</a></p> <hr/> <p>Parag Bhavsar, Italian National Research Council, Italy</p>

Closing the conference for Day 3

End of the Conference

\*\*\*Note: This is a Tentative Program, it is Subjected to changes till Final Program