



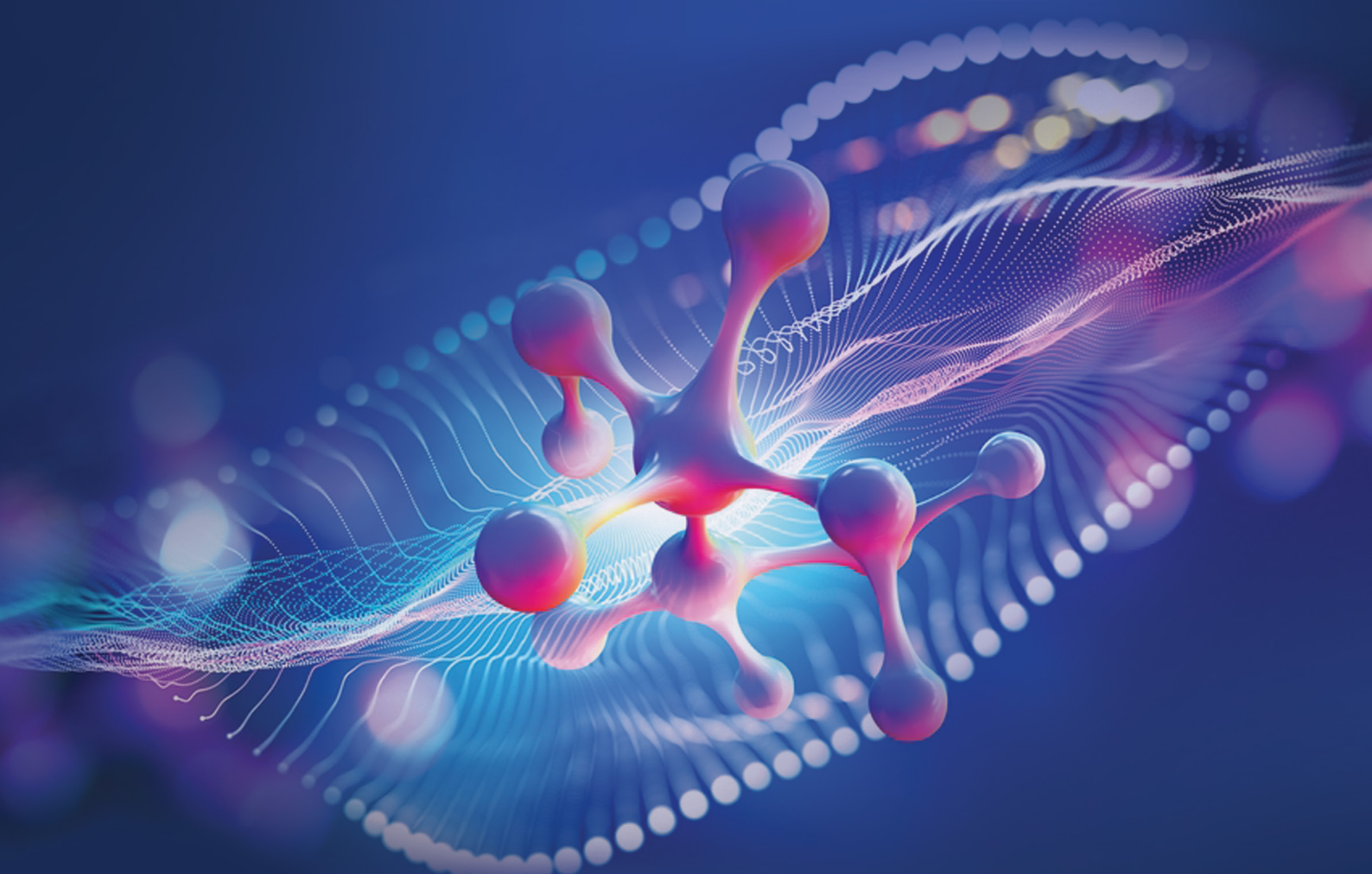
PRISM



BioNano Congress

**WORLD CONGRESS ON
BIOMATERIALS, NANOMEDICINE
AND GENE THERAPY**

DECEMBER 04-06, 2024 | online



www.bionanoconference.com

Opening Ceremony

Regenerative Medicine and Tissue Engineering

07:30–08:00 (CET)
15:30–16:00 (KST) **Title: Regenerative Medicine and Tissue Engineering in Cardiovascular Xenografts**
Hong-Gook Lim, Seoul National University College of Medicine, South Korea

08:00–08:30 **Title: The Lactic Acid Bacteria Lactococcus Lactis can Surprisingly Produce Intracellular Vesicles**
Annie Frelet Barrand, FEMTO-ST Institute, France

08:30–09:00
16:30–17:00 (KST) **Title: Nanomaterials-Layered Biopolymer Scaffolds for Tissue Engineering**
Rajendra Kumar Singh, Dankook University, South Korea

09:00–09:30
16:00–16:30 (MYT) **Title: Unravelling The Potential of Mesenchymal Stem Cell- and Cartilage Tissue-Derived Extracellular Vesicles in the Treatment of Osteoarthritis**
Daniel Law Jia Xian, Universiti Kebangsaan Malaysia, Malaysia

09:30–10:00

BREAK

Plenary Talk

10:00–10:45
11:00–11:45 (EET) **Title: Open Abdomen and Negative Pressure Wound Therapy for Acute Peritonitis Especially in the Presence of Anastomoses and Ostomies**
Orestis Ioannidis, Aristotle University of Thessaloniki, Greece

Biomaterials as Implants

10:45–11:15
13:45–14:15 (JOT) **Title: The Use of Comsol to Model the Implantation of a Hydrogel Scaffold for The Regeneration of Spinal Cord Injuries**
Tasnim Al Dabbas, Jordan University of Science and Technology, Jordan

11:15–11:45 **Title: Boosting Antimicrobial Defense in Boston Keratoprosthesis Through Dual Ion Implantation**
Silvia Gomez Gonzalez, Universitat Politècnica de Catalunya, Spain

11:45–12:15
14:45–15:15 (IRST)

Title: Biological Properties of Copper: Anti Bacterial, Osteogenesis of Biomaterials

Mohammad Javad Salek Rahimi, University of Tabriz, Iran

12:15–13:00

BREAK

Time Zone:
Paris

Re-Engineering and Rewriting Genetics with Gene therapy:
Past, Present & Future Approaches

12:50–13:00
20:50–21:00 (JST)

Title: gBoost™, a Cell-Selective Gene Expression Enhancer (E-Poster)

Mak Inoue, Infirmacea Inc, Japan

13:00–13:30
12:00–12:30 (GMT)

Title: Issues and Crisis Management – Staving Off Disastrous Consequences: Preparedness and Strategic Approaches:

Tristan Jervis, Impact Shine Communications, UK

13:30–14:00

Title: Unlocking Capital for Gene Therapy: Overcoming Financial Bottlenecks

Adrien Clavairolly, AdBio Partners, France

14:00–14:30

Title: Gene Therapies for Rare Diseases: Facing Obstacles and Limitations

Antoni Matilla-Dueñas, Biointaxis, Spain

14:30–15:00
13:30–14:00 (GMT)

Title: Next Generation of Programmable, Intuitive, Vectors for Clinical Applications of Gene Therapy

Farzin Farzaneh, ViroCell Biologics, UK

15:00–15:30

BREAK

15:30–16:00
09:30–10:00 (EST)

Title: Enrollment in Gene Therapy Clinical Trails; Strategies and Challenges

Chrissy Burton & Alicia M. Gomez, BridgeBio, USA

16:00–16:30
10:00–10:30 (EST)

Title: AAV Safety and the Need for Better Data Sharing in Gene Therapy Clinical Trials

Genevieve Laforet, Aspa Therapeutics, USA

16:30–17:00
10:30–11:00 (EST)

Title: Advancing Gene Therapy Trials with Real-World Evidence and External Controls

Megan Sutton, Formerly LEXEO Therapeutics, USA

17:00–17:30
11:00–11:30 (EST)

Title: Development of Capsid-Modified NextGen AAV Vectors, and the Need for Beyond Capsid-Modifications

Arun Srivastava, University of Florida College of Medicine, USA

Nanomaterials and Nanomedicine

- 07:45–08:15
14:45–15:15 (CST) Title: Advanced Superparamagnetic Catheter Functionalized with Controlled Nitric Oxide Release: A Synergistic Approach for Preventing Catheter-Associated Urinary Tract Infections
***Shashwat Sharma**, Taipei Medical University, Taiwan*
- 08:15–08:45
13:15–13:45 (IST) Title: Smart Nanoparticles in Drug Delivery Systems
***Aditya Girish**, SASTRA Deemed University, India*
- 08:45–09:15
11:15–11:45 (IRST) Title: Nano-Propolis with Great Medical Potential
***Akbar Vaseghi**, University of Cologne, Iran*
- 09:15–09:45
15:15–15:45 (THA) Title: Trend of Energy and Environment in Biotechnology
***Adulsaman Sukhaew**, Yala Rajabhat University, Thailand*

09:45–10:00

BREAK

Plenary Talk

- 10:00–10:45 Title: Dynamic Nanocarriers for Therapeutic RNA Delivery
***Ernst Wagner**, Ludwig-Maximilians-Universität(LMU) München, Germany*
- 10:45–11:30 Title: A Peptide Nanoparticles Platform for Targeted Delivery of Therapeutic RNAs
***Divita Gilles**, DIVINCELL, France*
- 11:30–12:00 Title: Advances in Nanoparticle-Based Imaging: Citrate-Coated Magnetic Nanoparticles as MRI Contrast Agents for Cardiovascular Diseases
***Alaa Ibrahim**, German Heart Center of the Charité (DHZC), Germany*

12:00–12:30

BREAK

Gene Therapeutics: Clinical Approaches and Applications

- 12:30–13:00 Title: CAR-Tregs Therapies to Treat Immunological Disorders
***Sophie Blondel**, Taegia, France*

- 13:00–13:30** Title: Lessons Learned from 2 Decades of GT Using AAV as a Therapeutic Modality: Key Elements to Consider Promoting Successful Development
Anne Douar, Vivet Therapeutics, France
- 13:30–14:00** Title: New Strategies for Allogeneic Cellular Immunotherapies
Olivier Negre, Smart Immune, France
- 14:00–14:30** Title: CNS Gene Therapy : Recent Advances and Challenges
Nathalie Cartier, Asklepios BioPharmaceutical, France
- 14:30–15:00** BREAK
- 15:00–15:30** Title: Scaling New Heights in the Fight Against Heart Disease
Natasha Paterson, Tenaya Therapeutics, USA
- 15:30–16:00**
09:30–10:00 (EST) Title: Prime Editing Permits to Correct Point Mutations Responsible for Many Muscular Dystrophies
Jacques P. Tremblay, Laval University, Canada
- 16:00–16:30**
10:00–10:30 (EST) Title: Placebo Control Arms in Rare Diseases Clinical Trials: Main Considerations
Mitra Tavakkoli, Senior Biotech Consultant, USA
- 16:30–17:00** Title: The Role of Regulatory CMC in the Development of a GT
Gabriel Bohl, ICON Plc, France
- 17:00–17:30**
08:00–08:30 (PST) Title: FDA Regulations
Binh Nguyen, Wynngate Corporation, USA

Unlocking Health Mysteries: Analytics, Manufacturing and Commercialization of Strategies

- 14:00–14:30** Title: Dual AAV Manufacturing & Control Strategy
Christine Le Bec, Sensorion, France
- 14:30–15:00** Title: Advancing Gene Therapeutics into GMP Compliant Commercial Manufacturing
13:30–14:00 (GMT) *James Drinkwater, Franz Ziel GmbH, UK*
- 15:00–15:30** Title: Commercialization and Alternative Payment Models for Specialty Pharmaceuticals in The USA
Jeff Chaffin, Miles Payer Strategy, USA
- 15:30–16:00** Title: Mitigating Immune Responses to AAV Vector-Mediated Gene Transfer
09:30–10:00 (EST) *Hildegund Ertl, The Wistar Institute, USA*
- 16:00–16:30** Title: Cytokine Gene Therapy for Treatment of a Brain Tumor
09:00–09:30 (CST) *Terry Lichtor, Professor, Rush University, USA*
- 16:30–17:00** Title: Digital Twins and AI to Support Real Time Batch Manufacturing
15:30–16:00 (GMT) *Shayoni Dutta, GSK, UK*
- 17:00–17:30** Title: Translate Core Technologies into Pioneering Manufacturing Technologies to Accelerate the Time-To-Market for Gene Therapies
Pascale Berthet, Antleron B. V, France