

# SCIENTIFIC PROGRAM

**Nucleic Acids 2025**

**International Virtual Conference on Nucleic  
Acids, Genome Biology & Therapeutics**

**November 29-30, 2025**

**(Virtual Conference)**

**Theme:** Exploring the Frontiers of Genome Biology & Nucleic Acid  
**Technologies:** Advancing DNA & RNA Science for Next-Generation  
Therapeutics

**Meeting Type:** Zoom Meeting | **Time Zone:** GMT+0 (London, UK)

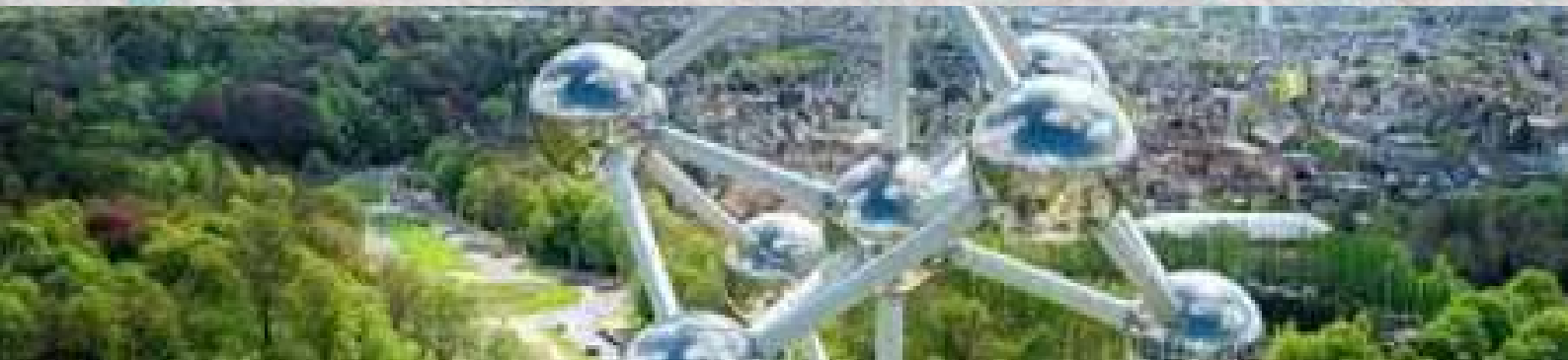
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**Nucleic Acids 2025, November 29-30, 2025**

**November 29, 2025**

**Time Zone: GMT+0**

**Time: 10:00 AM, London, UK Time**

**Opening Ceremony**

**10:00-10:05**

**Keynote Speaker Session**

**10:05-10:30**

**Speaker:** Dr. Jingwei Guo, Capital Medical University, China

**Presentation Title:** Nucleic Acid Diversity in cGAS-STING Pathway Activation and Immune Dysregulation

**10:30-10:55**

**Speaker:** Dr. Ana Kuprešanin, University of Novi Sad, Serbia

**Presentation Title:** Advanced Nanomaterial-Based Electrochemical Biosensing of Loop-Mediated Isothermal Amplification Products

**10:55-11:20**

**Speaker:** Dr. Mariusz Kluska, University of Siedlce, Poland

**Presentation Title:** Occurrence, Properties, Applications and Analytics of Cytosine and Its Derivatives

**11:20-11:45**

**Speaker:** Dr. Lucas Kettner, University of Hohenheim, Germany

**Presentation Title:** A Diamine Oxidase from *Glutamicibacter halophytocola* for the Degradation of Histamine and Tyramine in Foods

**11:45-12:10**

**Speaker:** Dr. Francesca Ferrara, University of Ferrara, Italy

**Presentation Title:** A Pre-Formulation Study for Delivering Nucleic Acids as a Possible Gene Therapy Approach for Spinocerebellar Ataxia Disorders

**12:10-12:35**

**Speaker:** Dr. Peng Sun, Luoyang Normal University, China

**Presentation Title:** High-Density Microfluidic Chip with Vertical Structure for Digital PCR

**12:35-13:00**

**Speaker:** Dr. Elżbieta Okła, University of Lodz, Poland

**Presentation Title:** Crossing Barriers: PEGylated Gold Nanoparticles as Promising Delivery Vehicles for siRNA Delivery in Alzheimer's Disease

**Plenary Speaker Session**



## Session Chairperson Details

Dr. Peng Sun, Luoyang Normal University, China

## Session Details

Session 01: Nucleic Acid Structure, Chemistry & Function  
Session 02: Genome Biology & Regulation  
Session 03: Advanced Genomic Technologies  
Session 04: RNA Biology & RNA Therapeutics  
Session 05: DNA-Based Tools & Gene Engineering  
Session 06: Nucleic Acid Delivery Systems  
Session 07: Diagnostics & Biomarker Discovery  
Session 08: Therapeutic Applications  
Session 09: Computational & Systems Biology of Nucleic Acids

13:00-13:25

**Speaker:** Dr. Miran Tang, Wenzhou Medical University, China

**Presentation Title:** The properties of linezolid, rifampicin, and vancomycin, as well as the mechanism of action of pentamidine, determine their synergy against Gram-negative bacteria

13:25-13:50

**Speaker:** Dr. Iuliana Cocean, Alexandru Ioan Cuza University of Iasi, Romania

**Presentation Title:** High Power Pulsed Laser Technology in Obtaining Hemp-Based Nano-Bio-Composite Thin Films for TDD Medical Devices (Transdermal Drug Delivery Systems) and Solar Cell Component

13:50-14:15

**Speaker:** Dr. Bryan I. Ruiz, University of California, United States

**Presentation Title:** Alpha-Ketoglutarate Regulates Tnfrsf12a/Fn14 Expression via Histone Modification and Prevents Cancer-Induced Cachexia

14:15-14:40

**Speaker:** Dr. Carolina Otero, Universidad Andres Bello, Chile

**Presentation Title:** Characterization of the molecular mechanism of Quillaic Acid from Quillaja Saponaria Mol. as an anti-inflammatory agent

14:40-15:05

**Speaker:** Dr. Phakamani Hopewell Tsilo, University of Zululand, South Africa

**Presentation Title:** Application of silver nanoparticles synthesized by a green method from a bioflocculant derived from *Pichia kudriavzevii* isolated from Kombucha tea SCOBY

## Poster Presentation ( 15:05 -17:00)

RWI001

**Speaker:** Dr. Seohyun Park, Auckland University of Technology, New Zealand

**Presentation Title:** Screening of a Combinatorial Library of Triazine-Scaffolded Dipeptide-Mimic Affinity Ligands to Bind Plasmid DNA

RWI002

**Speaker:** Dr. Sedigheh Salami, Alzahra University, Tehran, Iran

**Presentation Title:** Nanoparticle-Based Delivery Strategies for Combating Drug Resistance in Cancer Therapeutics

**RWI003**

**Speaker:** Dr. Almas Naeem ,Dow University of Health Sciences, Pakistan

**Presentation Title:** Effect of Leflunomide-Metal Complexes on ROS, TNF and Brain Indolamines in Comparison with Anti-Depressants as Adjunct Therapy in Rheumatoid Arthritic Model

**RWI002**

**Speaker:** Dr. Sajitha Somasundaran Nair, Cochin University of Science and Technology, India

**Presentation Title:** Quantifying Autonomic Dysfunction - A Novel Biomarker of Alzheimer's disease

**RWI003**

**Speaker:** Dr. Ramakanth Pagadala, CVR College of Engineering, India

**Presentation Title:** Construction of new heterocycles by adopting 12 green chemistry principles

**End of Session with Closing & Award Ceremony**