

# SCIENTIFIC PROGRAM

**Nucleic Acids 2026**

**2nd International Virtual Conference on  
Nucleic Acids, Genome Biology &  
Therapeutics**

**April 24-25, 2026**

**(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+1 (London, UK)

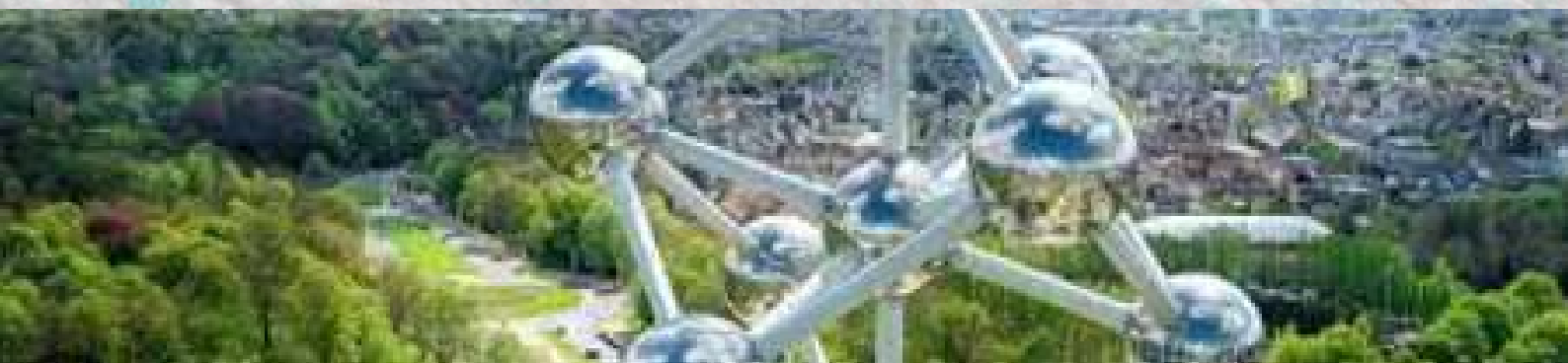
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<https://nucleicacids.researchwaveinternational.com/>



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Nucleic Acids 2026, April 24-25, 2026

April 24, 2026

Time Zone: GMT+1, London, UK Time | Time: 14:00

Opening Ceremony | 14:00-14:05

## Keynote Speaker Session

14:05-14:30

**Speaker:** Dr. Francesca Storici, Georgia Institute of Technology, USA

**Presentation Title:** Ribonucleotides in DNA: A Hidden Layer of Genome Regulation

14:30-14:55

**Speaker:** Dr. Rashmi Sanghi, Amity University Punjab, India

**Presentation Title:** Fungal-Biomediated CdS Nanoparticles: Bridging Nucleic Acid-Inspired Processes with Environmental Photocatalysis”

14:55-15:20

**Speaker:** Dr. Shabana Naz, Government College University, Pakistan

**Presentation Title:** Comprehensive Assessment of Silver Bioaccumulation and DNA Damage Effects in Coturnix coturnix japonica via Blood, Feather, and Egg Using Two Different Sources

15:20-15:45

**Speaker:** Dr. Shraboni Mostofa Shila, University of Dhaka, Bangladesh

**Presentation Title:** Comprehensive Assessment of Silver Bioaccumulation and DNA Damage Effects in Coturnix coturnix japonica via Blood, Feather, and Egg Using Two Different Sources

15:45-16:10

**Speaker:** Dr. K. Bansura Banu, Holy Cross College, India

**Presentation Title:** Advances in Nucleic Acid-Based Therapeutics and Genome Biology: Bridging Molecular Mechanisms to Precision Medicine

## Plenary Speaker Session

### Session Chairperson Details

Dr. Seohyun Park, Auckland University of Technology, New Zealand

Dr. Carolina Otero, Universidad Andres Bello, Chile

### 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**

**16:10-16:35**

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

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

**16:35-17:00**

**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

**17:00-17:25**

**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

**17:25-17:50**

**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

**17:50-18:15**

**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 ( 18:15 -19:30)**

**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

**RWI004**

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

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

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