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BIOLOGICAL RESEARCH SOCIETY

16TH

ANNUAL

RESEARCH DAY

WEDNESDAY

16TH APRIL

2025

BRS

BIOLOGICAL RESEARCH SOCIETY

DCU

Ollscoil Chathair
Bhaile Átha Cliath
Dublin City University



16th Annual Research Day

Wednesday 16th April 2025

09:30–09:45 **Welcome Remarks**
Christine Loscher, Head of School of Biotechnology
Niall Ashfield – BRS Chair

09:45–10:30 Session 1: Flash 5

- Anita White** Development of *ErbB* Gene Mutated Breast Cancer Cell Models Using a CRISPR/Cas9 Gene Editing Approach
- Cian Ennis** Applying Genomics to the Challenge of Ending Tuberculosis in Ireland
- Ciara McDermott** Using Digital Droplet PCR to Validate RPA-CRISPR-Cas Assay for Potato Blight Detection from Edna Aerosol Samples
- Emma Rowan** Feeding Assays Unravel the Impact of Pollutants on Daphnids
- Jessica Alyas** Investigating New Therapeutic Modalities for Atypical Teratoid/Rhabdoid Tumor Using *in vitro* Models

10:30–10:45 **Coffee Break**

10:45–11:45 Session 2: Research Talks

- Daphni Doulaptsi-Teeuwen** The Interplay Between CD4+ T cells Autophagy, Metabolism and Fitness in Rheumatoid Arthritis.
- Karina Kulakova** Macrophage Plasticity Drives Progression of Inflammation in Patients with Rheumatoid Arthritis
- Larissa Bless** Pre-clinical Evaluation of T-DXd Plus AZD1390 in Triple-Negative Breast Cancer Models
- Salini Mohapatra** Exploring the Role of Lipoxin(LXA4) as a Novel Therapeutic for Chronic Wound Infections

11:45–13:00 **Poster Session, Networking, and Lunch**

13:00–14:00 Session 3: Early Career Researchers 1

- Anna Michalaki** The Impact of Chemical and Commercial NSAIDs on *Daphnia Magna*
- Conor Lawlor** Evaluation of RALA Peptide Nanoparticles for Delivery of Nucleic Acids into Human T-Cells
- Martha Faulkner** Investigating the Transportation and Storage of Zinc in Epithelial Cells

14:00–14:15 **Coffee Break**

14:15–15:00 Session 4: Early Career Researchers 2

- Myra Castel** Using CRISPR/Cas9 to Edit KRAS in a Small Cell Lung Cancer Cell Line
- Niamh Rock** Dissecting Antagonistic Function of Phytic Acid on Zinc Absorption

15:00–15:30 **BRS Eolas Award Winner 2025 - Margherita Obinu** Prostate Cancer-Nerve Interactions: Unlocking Novel Biotherapeutic Strategies

15:30–16:00 **Closing Remarks & Awards**
Jessica Alyas – Incoming BRS Chair

