

**Session Program**

**May 18 - 23, 2026**

**Microfluidic Horizons 2026**

**Tuesday 19/05, 14 - 19; Room 35**

## Tue, May 19

2:00 PM

### Tuesday 19/05, 14 - 19; Room 35

Session

3:00 - 3:20 PM

**Microfluidic control of nutrient microgradients and lag phases in spatially confined bacterial monolayers**

3:20 - 3:40 PM

**Stronger at the seams: Antibiotic stress enhances amino acid leakage and cross-feeding**

3:40 - 4:00 PM

**Novel Microfluidic Systems to Simulate Multiscale Bacterial Transport Through a Contaminated Aquifer**

4:00 - 4:20 PM

**Multiscale modelling of biofilm extracellular matrix using 'resistance-in-series' effect**

**Speaker**

Dr Raghu Krishna Moorthy

5:20 - 5:40 PM

**Insights Into Flow-Driven Platelet Dynamics and Thrombus Morphology**

**Speaker**

Dr Eleonora Pero

5:40 - 6:00 PM

**Combining inertial pre-enrichment and immunomagnetic sorting for CTC isolation from blood**

6:00 - 6:20 PM

**Mimicking sap transport in vascular plants using microfluidics**

**Speaker**

Julien Renaudeau

6:20 - 6:40 PM

**Temporal signature of Shear Stress Regulates Renal Epithelial Mechanotransduction**

**Speaker**

SUPRATIM SAHA

7:00 PM