

NInTec Science Days 2026

22–23 October 2026

Scientific Programme

Times and events are preliminary and subject to change.

Oral presentations: 15 min + 5 min discussion.

Short orals: 10 min + 2 min discussion.

Thursday, October 22

10:00 – 10:20	Opening Session
10:20 – 12:00	First Session – Chair: to be confirmed
10:20	Joana Santos – <i>Exploring the PLCg1-SHP2 Interaction as a Therapeutic Target in Cetuximab-Resistant Colorectal Cancer</i>
10:40	Mafalda Nunes – <i>The Nervous Heart: Unravelling Neuro-Cardiac Dysfunction in Rett Syndrome</i>
11:00	Nuno Graça – <i>Vibrio natriegens as a novel host for RNA therapeutics</i>
11:20	Sebastião Santos Pereira – <i>Biomanufacturing of DNA-Origami Nanostructures Towards Image-guided Drug Delivery</i>
11:40	Amin Gharghi – <i>Thermal Comfort as a Design Variable for Climate-Neutral Cities</i>
12:00 – 14:00	Lunch Break
14:00 – 15:40	Second Session – Chair: to be confirmed
14:00	Sara Gonçalves – <i>Chromosomal Aberration Assay for Rapid Screening in Emergency Exposure: IST Insights from the RESILIENCE Project</i>
14:20	Diogo Dias – <i>Fighting Cancer with Synthetic Antibodies</i>
14:40	Salomé Rosa – <i>Spectroscopy4All: Low-Cost Multifunctional Modular Spectrometer Applied to Monitor the Activity of PSA</i>
15:00	Maria Eugénia Vozzone Naudin – <i>Elemental characterization of metal artefacts using p-XRF and -PIXE</i>
15:20	Janice Lopes – <i>Gamma Irradiation as a Tool for Unlocking the Bioactive Potential of Grape Pomace</i>
15:40 – 16:10	Coffee Break
16:10 – 17:50	Third Session – Chair: Nuno Cruz
16:10	Bárbara Baptista – <i>Data Visualization Tools for Nuclear Fusion Experiments: ITER Interactive MDSplus MINT Interface</i>
16:30	Daosheng Ning – <i>When Waves Meet Structures: Modelling Approaches for Safer Marine Systems</i>
16:50	Mariana Ribeiro – <i>Seeing the invisible: how diagnostics let us describe and control plasmas</i>
17:10	Bruno Miroto – <i>Data Visualization Tools for Nuclear Fusion Experiments: An MDSplus Interface for Grafana</i>
17:30	Andre Ohara – <i>From the Inner Ear to the Origin of Warm-Bloodedness: a Multi-Omics View of Endolymph (ENDOMICS)</i>

Friday, October 23

09:30 – 11:10	Fourth Session – Short Orals (10 min each) – Chair: to be confirmed
09:30	Maria Morgado – <i>The Role of RNA in the Formation of Tau Biomolecular Condensates</i>
09:42	Rúben Matias – <i>TIA1 and Tau: From Protein Production to Biomolecular Condensation</i>
09:54	Mariana Pereira – <i>Study of Ionic Liquid-Assisted CO₂ Hydrogenation Using Molecular Dynamic Simulation and Experimental Validation</i>
10:06	Maria Jeremias – <i>The use of deep eutectic solvents in the pre-treatment of environmental samples for the voltammetric analysis of Pd</i>
10:18	Aurélie Domisse – <i>Assessment of Acid-Volatile Sulfides and Simultaneously Extracted Metals in Sediments of the Tagus Estuary</i>
10:30	Tiago Jesus – <i>Towards autonomous experiments at the nuclear microprobe</i>
10:42	André Pereira – <i>Development of high-functionally graded materials for nuclear fusion reactors</i>
10:54	Antonio Silva – <i>Compact, Reconfigurable Millimeter-Wave Back-End for Next-Generation Fusion Reactors</i>
11:10 – 11:40	Coffee Break
11:40 – 12:20	Fifth Session – Chair: to be confirmed
11:40	Amin Gharghi – <i>Interfacial Forces in Three-Phase Systems</i>
12:00	Tiago Silva – <i>Development of a Microwave Plasma Reactor Facility for Gas Conversion at IST</i>
12:20 – 14:30	Lunch Break
15:00 – 17:00	Round Table "Challenges in the Implementation of the European Charter for Researchers"