



# AFFINITY 2023

## FLASH PRESENTATION SLOTS

DAY 1: 5 JUNE

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### 11:55 Flash presentations slot I

- 11:55** **Mickaël Guérin (Université de Technologie de Compiègne, FR)** - "Lyme borreliosis diagnosis: Combine *in silico* and *in vitro* approaches."
- 11:58** **Rita Carapito (University of Beira Interior, PT)** - "Molecular docking of customized oligonucleotides as affinity ligands for pre-miRNA-29b purification."
- 12:01** **Ábel Nagy (KTH Royal Institute of Technology, SE)** - "Site-Specific Photoaffinity Labeling for the Preparation of Radioimmunoconjugates."
- 12:04** **Filipa Engrola (UCIBIO, NOVA School of Science and Technology, PT)** - "Enzyme-substrate & protein-protein interaction: the case study of Arsenite oxidase."
- 12:07** **Marko Babić (University of Rijeka, HR)** - "Modeling the aggregation of self-assembling histidine rich peptides in the presence of zinc(II) ions."
- 12:10** **Q&A session**

### 16:10 Flash presentations slot II

- 16:10** **Gustav Aniander (KTH Royal Institute of Technology, SE)** - "Co-culture platform for tuning of cancer receptor density allows for evaluation of bispecific immune cell engagers."
- 16:13** **Catarina Domingos (UCIBIO, NOVA School of Science and Technology, PT)** - "Synthesis and characterization of an antibody-affinity ligand based on a Petasis-Ugi scaffold."
- 16:16** **Marit Möller (KTH Royal Institute of Technology, SE)** - "Engineering calcium-dependent small affinity proteins for targeted delivery."
- 16:19** **Linda Ehrenborg (KTH Royal Institute of Technology, SE)** - "Development of anti-TIGIT affibody molecules for imaging of tumor infiltrating lymphocytes and cancer therapy."
- 16:22** **Iana Lychko (UCIBIO, NOVA School of Science and Technology, PT)** - "Characterization of dynamic self-assembly of reflectins."
- 16:25** **Q&A session**

### 18:15 Flash presentations slot III

- 18:15** **Tobias Schopper (Innophore GmbH, AT)** - "Using deep-learning to generate high-affinity SARS-CoV-2 decoys for rapid development and variant-specific redesign."
- 18:18** **Anastasiia Kushnarova-Vakal (University of Turku, FI)** - "Improved time-resolved fluorescence immunoassays by site-specific labelling of tracer antibodies."
- 18:21** **Tiffany Auroy (University of Technology of Compiègne, FR)** - "Molecularly Imprinted Polymers for the stabilization and vectorization of anti-microbial peptides: new approaches to combat antibiotic resistance."
- 18:24** **Timothy Jay Bengala (De La Salle Medical and Health Sciences Institute, PH)** - "'WAC the Weeds': Planting the Seeds for Better Herbal Medicines with Weak Affinity Chromatography."
- 18:27** **Mirna Alejandra González González (Tecnológico de Monterrey, MX)** - "Adaptation of a selective wet etching method for the colorimetric, paper-based device quantification of glucose and uric acid."
- 18:30** **Q&A session**





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### 18:35 Flash presentations slot IV

- 18:35** **Gonçalo Dória (StabVida, PT)** - "Doctor Vida<sup>®</sup> pocket: A genetic lab-on-phone test for point-of-care diagnostic of Lactose Intolerance near patient and in less than 90 minutes."
- 18:38** **Suraj Singh (Vellore Institute of Technology, IN)** - "Rational Structure-Based Inhibitors Design Against Sortase A From Multidrug-Resistant *Enterococcus faecalis*."
- 18:41** **Diana Gomes (University of Beira Interior, PT)** - "Exploring synthetic compounds as HPV e6 protein inhibitors for cervical cancer management."
- 18:44** **Kim Anh Giang (KTH Royal Institute of Technology, SE)** - "Affibody-based BCMA x CD16 dual engagers for activation of NK cells towards multiple myeloma."
- 18:47** **Emma Larsson (KTH Royal Institute of Technology, SE)** - "Generation and optimization of ADAPTs for targeted therapy and diagnosis of cancer."
- 18:50** **Q&A session**





# AFFINITY 2023

## FLASH PRESENTATION SLOTS

DAY 2: 6 JUNE

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### 9 : 5 5 Flash presentations slot V

- 09 : 5 5** **Duarte Miguel Prazeres (Instituto Superior Técnico, PT)** - "Anchoring Biotin-modified Biomolecules to Nanocellulose with a Fusion of a Carbohydrate Binding Module with Monomeric Streptavidin."
- 09 : 5 8** **Carina Esteves (UCIBIO, NOVA School of Science and Technology, PT)** - "Peptide ionogels in designed solvents."
- 10 : 0 1** **Claudia Herrera León (Université de Technologie de Compiègne, FR)** - "Molecularly Imprinted Polymers as synthetic antibodies for therapeutic applications."
- 10 : 0 4** **Margarida Dias (UCIBIO, NOVA School of Science and Technology, PT)** - "Reflectin-derived protopeptide: solvent modulation to promote different supramolecular assembly and materials."
- 10 : 0 7** **Catarina Faustino (UCIBIO, NOVA School of Science and Technology, PT)** - "A biotechnological approach to a marine toxin candidate."
- 10 : 1 0** **Q&A session**

### 12 : 3 5 Flash presentations slot VI

- 12 : 3 5** **Ryan Kilgore (North Carolina State University, US)** - "Peptide affinity ligands for universal exosome purification from HEK293 cell culture supernatant."
- 12 : 3 8** **Ana Tavares (University of Aveiro, PT)** - "Purification of L-asparaginase through supported ionic liquid."
- 12 : 4 1** **Ângela Sousa (University of Beira Interior, PT)** - "Recombinant biosynthesis and purification of high-risk HPV E7 protein for anti-HPV drug development."
- 12 : 4 4** **Augusto Pedro (CICECO - Aveiro Institute of Materials, PT)** - "Preparative liquid chromatography of nucleic acids using ionic liquids as ligands immobilized in macroporous supports."
- 12 : 4 7** **Carly Catella (North Carolina State University, US)** - "Clostridioides difficile Toxin B sub-type agnostic glucosyltransferase inhibition by novel peptides."
- 12 : 5 0** **Marcelo Fernandez Lahore (Luxembourg Institute of Science and Technology, LU)** - "Synthesis and sorption performance of highly specific imprinted particles for the direct recovery of carminic acid."
- 12 : 5 3** **Q&A session**

### 15 : 0 0 Flash presentations slot VII

- 15 : 0 0** **Carlos Costa (UCIBIO, NOVA School of Science and Technology, PT)** - "Affinity reagents towards the SARS-CoV-2 spike protein."
- 15 : 0 3** **Joana Calvário (ITQB NOVA, PT)** - "Rationalizing aminoacid composition responsible for liquid-liquid phase separation."
- 15 : 0 6** **Ana Tavares (University of Aveiro, PT)** - "Aqueous biphasic systems as a novel platform for the extraction of immunoglobulin Y."
- 15 : 0 9** **Jacob Clinton (KTH Royal Institute of Technology, SE)** - "Evaluation of the impact of length of peptide nucleic acid probes for tumor pretargeting."
- 15 : 1 2** **Katerina Kourentzi (University of Houston, US)** - "Expression and Biophysical Characterization of Intein-Cyclized Trimer of *Staphylococcus aureus* Protein A Domain Z."
- 15 : 1 5** **Q&A session**



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## FLASH PRESENTATION SLOTS

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### 16:00 Flash presentations slot VIII

- 16:00 **Rita Fernandes (ITQB NOVA, PT)** - "Implementation of novel affinity ligand for Lentiviral vector purification."
- 16:03 **Anna Heijbel (Bio-Works, SE)** - "Addressing the challenge of optimizing his-tagged protein purifications."
- 16:06 **Sobhana Sripada (North Carolina State University, US)** - "Development of 'Flow-through Affinity Chromatography' for process-related impurity capture in Biomanufacturing using Peptide Ligands."
- 16:09 **M. A. Vijayalakshmi (Vellore Institute of Technology, IN)** - "Development of titanium particles incorporated monolith for selective phosphoprotein removal from biological samples."
- 16:12 **Alois Jungbauer (BOKU, AT)** - "Purification and biophysical characterization of recombinant secretory immunoglobulin A for passive immunization."
- 16:15 **Q&A session**





# AFFINITY 2023

## FLASH PRESENTATION SLOTS

DAY 3: 7 JUNE

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### 10:15 Flash presentations slot IX

- 10:15** *João Encarnação (Adamastor Bioservices, IT)* - "Binding kinetics on live cells to unravel how epitope binding influences antibody dependent complement engagement for therapy of B-cell malignancies."
- 10:18** *Cristina Dias-Cabral (University of Beira Interior, PT)* - "Electrochemical immunosensors for improving heart failure patient management."
- 10:21** *Carolina Natal (UCIBIO, NOVA School of Science and Technology, PT)* - "Bioindicator to monitor environmental humidity inside packaging."
- 10:24** *Christos Galanos (Université de Technologie de Compiègne, FR)* - "Molecularly imprinted polymers for the selective recognition and immobilization of microorganisms."
- 10:27** *Zoltán Konthur (Bundesanstalt für Materialforschung und -prüfung, DE)* - "Utilizing *Aspergillus niger* fumonisin amine oxidase for the electrochemical detection of fumonisin."
- 10:30** Q&A session

### 10:35 Flash presentations slot X

- 10:35** *Susana Palma (UCIBIO, NOVA School of Science and Technology, PT)* - "Designed ionic liquid-based soft materials for artificial olfaction"
- 10:38** *Inês Padrão (UCIBIO, NOVA School of Science and Technology, PT)* - "Olfaction-inspired non-invasive renal cancer diagnostics."
- 10:41** *Vu Binh (University of Houston, US)* - "Glowstick-Inspired Lateral Flow Immunoassays: A Smartphone-Readable Biomarker Detection Platform for Highly Sensitive, Multiplexable, Rapid Tests."
- 10:44** *Noel Angelo Kalacas (Université de Technologie de Compiègne, FR)* - "Molecularly Imprinted Polymer Nanogels as Synthetic Antibodies for the Recognition of a Kidney Failure Biomarker."
- 10:47** *Sara Viveiros (Instituto Superior Técnico, PT)* - "Design of a manufacturing platform for recombinant antibody fragments for diagnostic purposes."
- 10:50** Q&A session

