

# EYCA 2018

## EUROPEAN YOUNG CHEMIST AWARD 2018

Sponsored by the Italian Chemical Society (SCI) and Consiglio Nazionale dei Chimici (CNC)  
With the patronage of EuCheMS, SCI, CNC and European Young Chemists' Network (EYCN)

### EYCA2018 COMPETITION SESSION – PROGRAM\*

Tuesday 28<sup>th</sup> August 2018 (11.00 – 13.00)

Convener: **Bruno Pignataro**, University of Palermo, Italy

#### 11.00 – 11.10 INTRODUCTION

11.10 – 13.00 - FIRST SET OF FINALISTS (12 minutes each including questions from the Jury and the audience)

### 35 years old level (Chair: Bruno Pignataro)

**Paolo Arosio**, ETH Zurich, Switzerland

*Molecular mechanisms of protein self-assembly processes associated with functional biology*

**Sophie Carenco**, Sorbonne Université, France

*Inside and Out Metal Nanoparticles: Core and Surface Governing Together the Catalytic Properties*

**Matteo Atzori**, University of Florence, Italy

*A Two-Qubit Molecular Architecture for Electron-mediated Nuclear Quantum Simulation*

**Thomas Bennett**, University of Cambridge, U.K.

*MOF glasses: a new, 4<sup>th</sup> category of melt quenched glass*

**Simone Fabiano**, Linköping University, Sweden

*Understanding the impact of polymer structure on the conductivity of n-doped polymers*

**Rafael Gramage-Doria**, Institut des Sciences Chimiques de Rennes, Spain

*Transition Metal Catalysis: from Sustainable Transformations to Supramolecular Approaches*

**Pavel Mykhailiuk**, National Taras Shevchenko, University of Kyiv, Ukraine

*Synthesis of bicyclic amines for Drug Discovery*

**Alessandro Porchetta**, University of Rome Tor Vergata, Italy

*Programmable nucleic acid nanoswitches for the rapid, single-step detection of antibodies in bodily fluids*

13.00 – 14.30 LUNCH

# EYCA 2018

**14.30 – 16.30 - SECOND SET OF FINALISTS (12 minutes each including questions from the Jury and the audience)**

**Gabriele Pupo**, University of Oxford, UK

*Asymmetric Nucleophilic Fluorination under Hydrogen Bonding Phase-Transfer Catalysis*

**Davide Ravelli**, University of Pavia, Italy

*Decatung state photocatalyzed synthesis via selective Hydrogen Atom Transfer (HAT)*

**Jessica Rodriguez Villar**, Universidad de Santiago de Compostela, Spain

*Synthetic systems in Chemical Biology: Supramolecular Control of Cell Internalization and Selective Recognition and Modification of DNA*

**Matteo Mauro**, University of Strasbourg, France

*Metallo-supramolecular polymers as autonomously healable and contractile materials responsive to light*

## PhD level (Chair: Alice Soldà)

**Erica Del Grosso**, University of Rome Tor Vergata, Italy

*Dissipative synthetic DNA-based receptors for the transient load and release of molecular cargo*

**Olga Guselnikova**, University of Chemical Technology Prague, Czech Republic

*Plasmon-induced reaction: the new way for azide-alkyne cycloaddition*

**Tim Gatzemeier**, Max-Planck-Institut für Kohlenforschung, Germany

*Activation of Challenging Substrates with Strong Chiral Lewis Acids*

**Torsten John**, Leibniz Institute of Surface Engineering, Germany

*Amyloid-like aggregation of the antimicrobial peptide upeirin 3.5 and its selectivity towards membranes*

**Clément Larquet**, Sorbonne Université, France

*Cerium and sulfur oxidation mechanisms in (Gd,Ce)<sub>2</sub>O<sub>2</sub>S nanoparticles through X-ray absorption and near-ambient pressure X-ray photoemission spectroscopies*

**Lichen Liu**, Universitat Politècnica de València, Spain

*Evolution and Stabilization of Subnanometric Metal Clusters in Zeolites*

**16.30 - Concluding Remarks**

**\*The EYCA2018 AWARD CEREMONY will be held on 30<sup>th</sup> August 2018 during the Closing Ceremony of the 7<sup>th</sup> EuCheMS Chemistry Congress**