

Sunday, June 9

12:00-15:30 **Registration** (Hotel Villa Vecchia)

15:30-15:50 **Opening Remarks**

Chair: Fabrice Dénès

15:50-16:30 **IL1 Maurizio Fagnoni**
C-H Activation by Decatungstate Photocatalyzed Hydrogen-Atom
Transfer (HAT)

16:30-17:10 **IL2 Robert Phipps**
Development of Strategies for Selectivity Control in Radical
Reactions

17:10-17:30 **OL1 Robert Britton**
Exploiting Electrostatic Effects in Decatungstate-Catalyzed C-H
¹⁸F- and ¹⁹F-Fluorination

17:30-18:00 **Coffee Break**

Chair: Arkaitz Correa

18:00-18:40 **IL3 Inke Siewert**
Transition metal complexes as PCET reagents: from fundamentals to
the application in electrocatalysis

18:40-19:20 **IL4 Doron Pappo**
Selective Oxidative Phenol Coupling Reactions by Redox Iron and
Copper Catalysts

20:15 **Welcome Cocktail @Hotel Villa Vecchia**

Monday, June 10

Chair: Gino DiLabio

- 9:00-9:40 **IL5 Jennifer Bridwell-Rabb**
Designing a Rieske Route for C-H Bond Functionalization
- 9:40-10:20 **IL6 Ikuro Abe**
Unusual Enzyme Reactions in Natural Product Biosynthesis
- 10:20-10:40 **OL2 Todd Hyster**
Emergent Mechanisms in Photoenzymatic Catalysis
- 10:40-11:10 *Coffee Break*

Chair: Murielle Delley

- 11:10-11:50 **IL7 Martin Srnec**
Uncovering the principles enabling the control of H-atom transfer selectivity
- 11:50-12:30 **IL8 Sharon Hammes-Schiffer**
Long-Range Radical Transfer in Ribonucleotide Reductase
- 12:30-12:50 **OL3 Annia Galano**
eH-DAMA: A Graphical Tool to Predict Antioxidant Activity
- 13:00-14:30 *Lunch*

Chair: Martin Klussmann

- 14:30-15:10 **IL9 Song Lin**
Electrochemistry as an Enabling Tool for Organic Reaction Discovery
- 15:10-15:50 **IL10 Paolo Melchiorre**
Light, Organocatalysis & Enzymes: New Radical Opportunities
- 15:50-16:10 **OL4 Juntao Ye**
Photoinduced Enantioselective Hydrogen Atom Transfer
- 16:10-16:40 *Coffee Break*

Chair: Stefano Di Stefano

- 16:40-17:20 **IL11 Joan Broderick**
Mechanism of Radical SAM Enzyme-Catalyzed Peptide
Epimerization
- 17:40-18:00 **OL5 Luca Valgimigli**
Superoxide-activated Antioxidants and Nanoantioxidants Toward
Ferroptosis
- 18:00-18:20 **OL6 Arnau Call**
Stereoselective γ -Lactonization at Nonactivated Primary and
Secondary C-H Bonds
- 19:30 *Visit @ Frascati Museum & Wine Tasting*

Tuesday, June 11

Chair: Todd Hyster

- 9:00-9:40 **IL12 Amy Rosenzweig**
Biological oxidation of methane
- 9:40-10:20 **IL13 Amie Boal & Martin Bollinger Jr.**
Control of Regiochemistry and Outcome in Ferryl-Mediated C-H
Activation by Multifunctional 2-Oxoglutarate-Dependent
Oxygenases
- 10:20-10:40 **OL7 Ivana Ivanović-Burmazović**
Zn as a Cofactor for HAT and High-Pressure Methodology in
PCET/HAT Chemistry
- 10:40-11:10 *Coffee Break*

Chair: Annia Galano

- 11:10-11:50 **IL14 Oliver Wenger**
Understanding and Controlling Elementary Reaction Steps in
Photocatalysis
- 11:50-12:30 **IL15 Jana Roithová**
Electrochemistry coupled with mass spectrometry in research of
small molecule activation reactions

12:30-12:50 **OL8 Megan Jackson**
Spatially resolved mechanistic studies of electrocatalytic hydrogen evolution

13:00-14:30 ***Lunch***

Chair: Selvakumar Sermadurai

14:30-15:10 **IL16 Zhiwei Zuo**
LMCT Catalysis for selective functionalizations of strong bonds

15:10-15:50 **IL17 Daniele Leonori**
Novel methods in photochemistry and photocatalysis enabled by HAT

15:50-16:10 **OL9 Fabrice Dénès**
Remote functionalization: One way or the other.

16:10-16:30 **OL10 Federico Fratello**
Proximity Effects in C–H Oxidation by a Nonheme Iron(IV) Oxo Complex

16:30-19:00 ***Coffee Break and Poster Session***

20:00 ***Free Dinner***

Wednesday, June 12

Chair: Juntao Ye

9:00-9:40 **IL18 Timothy Jackson**
Hydrogen-Atom Transfer Reactions by Manganese-hydroxo and Manganese-oxo Complexes

9:40-10:20 **IL19 James Mayer**
Rate Constants for H-atom Transfer from a Free Energy Perspective

10:20-10:40 **OL11 Arkaitz Correa**
Radical C–H Amination of Phenol-Containing Biomolecules

10:40-11:10 ***Coffee Break***

Chair: Robert Britton

- 11:10-11:50 **IL20 Matthew Sigman**
Data Science Meets Physical Organic Chemistry
- 11:50-12:30 **IL21 Robert Knowles**
Excited-State PCET Catalysts for Selective C–H Bond Abstraction
- 12:30-12:50 **OL12 Marco Galeotti**
Catalyst and Medium Control Over Rebound Pathways in
Manganese-Catalyzed Methylenic C-H Oxidation
- 13:00-14:30 ***Lunch***

Chair: Megan Jackson

- 14:30-15:10 **IL22 Shannon Stahl**
Aerobic Oxidation of TEMPOH₂⁺ to TEMPO⁺ with a Heterogeneous
Fe-N-C Catalyst
- 15:10-15:50 **IL23 Erin Stache**
Selective Photooxidative Degradation of Polymer Waste for
Commodity Chemical Production
- 15:50-16:10 **OL13 Murielle Delley**
Catalytic Transfer of Hydrogen and Other Atoms by Inorganic
Materials
- 16:10-16:40 ***Coffee Break***

Chair: Luca Valgimigli

- 16:40-17:20 **IL24 Guosheng Liu**
Highly selective sp³ C-H Functionalization
- 17:20-17:40 **OL14 Tanner Jankins**
Merging Shuttle Catalysis with Reversible HAT for Alkene
Hydrofunctionalization
- 17:40-18:00 **OL15 Selvakumar Sermadurai**
Photocatalytically Generated *N*-Centered Sulfamidyl Radical for
Selective Functionalization of Si-H/Ge-H Bonds

18:00-18:20 **OL16 Cristian Rosso**
The Rational Design of Reducing Organophotoredox Catalysts
Unlocks Proton-Coupled Electron-Transfer and Atom Transfer
Radical Polymerization Mechanisms

19:30 *Conference Dinner @ Merumalia*

Thursday, June 13

Chair: Ivana Ivanović-Burmazović

9:00-9:40 **IL25 Ana Moore**
Multiproton Coupled Electron Transfer in Artificial Photosynthetic
Systems

9:40-10:20 **IL26 Miquel Costas**
Minimalistic Models of Oxotransferases as Catalysts for Site and
Enantioselective Oxidation of Strong C-H Bonds

10:20-10:40 **OL17 Andrea Squarcina**
Proton-Coupled Electron Transfer Triggers Oxygen Activation at a
Dinuclear Zinc Core Mediated by Metal-Ligand Cooperativity

10:40-11:10 *Coffee Break*

Chair: Arnau Call

11:10-11:50 **IL27 David Nagib**
Remote, Double, and Enantioselective C-H Functionalizations via
Polarity Reversal Mechanisms

11:50-12:10 **OL18 Alexandra Jorea**
Photocatalyzed Functionalization of electron-poor allenes via
Hydrogen Atom Transfer (HAT)

12:10-12:30 **OL19 Emilio deLuca Jr.**
Copper-Catalyzed β -Hydroxylation of Abietanes: Synthesis of a C5
Bridgehead Alcohol

12:30-12:40 **Concluding Remarks**

12:45 *Lunch*