

# **5<sup>th</sup> International Conference on Hydrogen Atom Transfer**

***iCHAT 2026***

**Villa Mondragone (Monteporzio Catone)**

**Rome - Italy**

**May 31-June 4, 2026**

## **ORGANIZING COMMITTEE**

Massimo Bietti (Chairman)	<i>Università “Tor Vergata”, Italy</i>
Michela Salamone	<i>Università “Tor Vergata”, Italy</i>
Daniele Mazzearella	<i>Università “Tor Vergata”, Italy</i>
Oswaldo Lanzalunga	<i>Università “La Sapienza”, Italy</i>
Fabio Ioele	<i>Università “Tor Vergata”, Italy</i>

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## GENERAL INFORMATION

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### Villa Mondragone

#### *Historical profile*

Villa Mondragone, towering on a hill 416 m. above sea-level, lies in the area of the *ville Tuscolane* which take their name from the ancient town of Tusculum, between the comune of Frascati and that of Monteporzio Catone (to which it belongs).

The estate consists of an 18-hectare lot. In the middle, in a dominating position and with a magnificent view towards Rome, rises the imposing building of the villa of about 80,000 cubic metres.

The architectural history of Villa Mondragone starts in 1567 when the young cardinal Marco Sittico Altemps, beloved nephew of pope Pius IV, buys a villa from Ranuccio Farnese, cardinal of Sant'Angelo. This villa, which previously had been property of cardinal Ricci of Montepulciano, was known as Angelina after the title of cardinal Ranuccio Farnese. This building was renamed villa Tusculana and later, after the building of the present villa Mondragone, became known as Villa Vecchia (the Old Villa).

At first cardinal Altemps decides only to enlarge the already existing villa Tusculana under the superintendence of the architect Jacopo Barozzi of Vignola aided by Martino Longhi of Viggìú. Once this work was completed, in 1571, cardinal Ugo Boncompagni, who a few months later became pope Gregorius XIII, was a guest at the Villa for a long time.

It is this pope himself who suggests building a new grand villa on the hillock overlooking the villa Tusculana taking advantage, as a base, of the impressive Roman ruins of the villa of the Quintili (Roman consuls in 151 A.D.). It was designed by Martino Longhi.

The name Mondragone refers to the heraldic dragon which occupies the central position in the coat of arms of the Boncompagni family and which is represented in various parts of the villa and garden.

In 1613 cardinal Scipione Borghese, nephew of pope Paul V, buys villa Mondragone and villa Tusculana together with other properties of the duke Gian Angelo Altemps, nephew of cardinal Marco. Between 1616 and 1618 significant works of enlargement of villa Mondragone are documented. These works were carried out under the direction of the Flemish architect Jan van Santen, better known as Giovanni Vasanzio, whom cardinal Borghese considered his trusted designer. These interventions affected both the block enlarged with the gallery between the Casino of Longhi and the Retirata, the small residential building constructed for the son of cardinal Altemps, and the external part with the great Garden, the portico, the Water theatre and the large quadrangular courtyard, which brings to mind the cour d'honneur of the royal dwellings in France.

The death of Paul V puts an end to the most magnificent period of villa Mondragone. The maintenance of the group of buildings becomes too expensive and it starts to be neglected giving rise to the decline of villa Mondragone.

In 1866 the Jesuit Order bought the villa which at first became the international headquarters of the Ghislieri college and later a boarding school of a very high social standard.

A further decline was put to an end by the University of Rome "Tor Vergata" which bought the group of buildings in 1982 with the approval of the Soprintendenze del Lazio which considered the interest of the new University of Rome as a sure signal of restoration for the historical and monumental prestige of the property.

## **Monteporzio Catone**

### *Historical profile*

It appears that the town's origins date back to the hospitality granted by the ancient place to a large group of refugees from the nearby town of *Tusculum* which was destroyed by the Romans around 500 b.C. There have also been some controversies regarding the name: according to some researchers it derives from Cato known as the Censor, whereas according to others it derives from Cato Uticensis. The earliest mention of the place dates back to the 11<sup>th</sup> century: Gregory II from Tuscolo granted to the Benedictines the Church dedicated to Sant'Antonino in "Monte Porculo". Later it was directly ruled by the Tuscolo Counts. In the 15<sup>th</sup> century the Monteporzio castle became the property of Teobaldo from the Annibaldi family, then of Cardinal Altemps and, in 1631, of Cardinal Scipione Borghese. It is situated in the Castelli Romani Regional Nature Park Area.

## **Frascati**

### *Historical profile*

The name of the town derives from the rural huts made with tree branches (It. *frasca*) built by the inhabitants of Tuscolo, when their town was destroyed by the Romans. The small hamlet became a rich town in the second half of the XVI<sup>th</sup> century when the Altemps, soon followed by other Roman families selected this location to build their villas. In 1620 there were already 14 villas belonging to the richest families who spent their *villeggiatura* (staying at a villa) in Frascati.

The Jesuits too had an imposing church ("Chiesa del Gesù") which shows the importance of Frascati from a "political" viewpoint. The interior is richly decorated in line with the Jesuits' view on the appropriateness of the use of paintings and decorations. This Church has two impressive examples of the skills developed in the study of perspective laws.

The Franciscan church of Frascati offers a striking contrast with that of the Jesuits. It is located outside Frascati, still in a rural setting. The only embellishment of its simple façade is a coat of arms of pope Gregorius XIII.

The fortifications of Frascati are relatively minor: the most notable evidence of their existence is a small fortress (now the bishop's palace) controlling the access to the town from the plain. Next to it there is the only monument belonging to the Middle Ages, the bell tower of S. Rocco dating back to the year 1305. A small fountain with three pots on top of a column is due to the intervention of pope Innocentius XII.

Although pope Urbanus VIII choose Castelgandolfo as his summer residence, the town hall of Frascati has a very intriguing coat of arms of that pope, with a strange face showing up below the papal symbols and another one appearing at the bottom of the shield. In addition to coats of arms of the most important Roman families, Frascati has also coats of arms of the Stuarts, in particular of Henry Stuart born in Rome in 1725, created Duke of York by his father James and created Cardinal of York by pope Benedictus XIV. He spent most of his life in Frascati with the title of Bishop of Tusculum. At the death of his brother Charles Eduard, initially buried in the cathedral of Frascati, Henry declared himself Henry the Ninth of Great Britain, France and Ireland, King, Defender of the Faith, Cardinal, Bishop of Tusculum. His coat of arms in Frascati shows both the royal crown and the cardinal's hat.

## SHORT PROGRAM iCHAT 2026

### Sunday, May 31

15:00-17:00 Registration  
17:00-17:15 Opening Remarks

Chair: *Oswaldo Lanzalunga*  
17:15-18:00 **IL1** – Paolo Melchiorre  
18:00-18:45 **IL2** – Zhiwei Zuo  
18:45-19:05 **OL1** – Fabrice Dénès

19:30 *Welcome mixer*

### Monday, June 1

Chair: *Lingling Chu*  
9:00-9:45 **IL3** – Aidan McDonald  
9:45-10:30 **IL4** – Miquel Costas  
10:30-10:50 **OL2** – Liangliang Wu

10:50-11:20 *Coffee Break*

Chair: *Teo Martin*  
11:20-12:05 **IL5** – Takahiko Kojima  
12:05-12:50 **IL6** – Leif Hammarström

13:00-14:30 *Lunch*

Chair: *Fabrice Dénès*  
14:30-15:15 **IL7** – Rachel Narehood Austin  
15:15-16:00 **IL8** – Marc Garcia-Borràs

16:00-16:30 *Coffee Break*

17:30 *Visit @San Nilo Abbey, Grottaferrata*

19:30 *Pizza dinner @Agricoltura Capodarco, Grottaferrata*

### Tuesday, June 2

Chair: *Marc Garcia-Borràs*  
9:00-9:45 **IL9** – Rebecca Buller  
9:45-10:30 **IL10** – Rudi Fasan  
10:30-10:50 **OL3** – George Bilionis

10:50-11:20 *Coffee Break*

Chair: *Irene Bosque*  
11:20-12:05 **IL11** – Robert J. Phipps  
12:05-12:50 **IL12** – Guosheng Liu  
12:50-13:10 **OL4** – Sethuraman Muthuramalingam

13:10-14:30 *Lunch*

### Angewandte Chemie Sponsored Session

Chair: *Daniele Mazzarella*  
14:30-14:40 Francesca Rita Novara  
14:40-15:25 **IL13** – Timothy Noël  
15:25-16:10 **IL14** – Lingling Chu  
16:10-16:30 **OL5** – Marco Rusconi

16:30-17:00 *Coffee Break*

Chair: *Sarah Mazzotta*  
17:00-17:45 **IL15** – Daniele Leonori  
17:45-18:05 **OL6** – Dimitrii Nagornii  
18:05-18:25 **OL7** – Francesco Pasca

### Free Dinner

### Wednesday, June 3

Chair: *Rachel Narehood Austin*  
9:00-9:45 **IL16** – Irene Bosque  
9:45-10:30 **IL17** – Shelley D. Minter  
10:30-10:50 **OL8** – Giovanni Lonardi

10:50-11:20 *Coffee Break*

Chair: *Liangliang Wu*  
11:20-12:05 **IL18** – Jonas Peters  
12:05-12:50 **IL19** – Amy Rosenzweig

13:00-14:30 *Lunch*

Chair: *Shuming Chen*  
14:30-15:15 **IL20** – David A. Nagib  
15:15-16:00 **IL21** – Martin Srnc  
16:00-16:20 **OL9** – Luca Capaldo  
16:20-16:40 **OL10** – Filippo Scarchilli

16:40 *Coffee Break & Poster Session*

19:30 *Conference dinner @Ristorante Cacciani, Frascati*

### Thursday, June 4

Chair: *Luca Capaldo*  
9:00-9:20 **OL11** – Sarah Mazzotta  
9:20-10:05 **IL22** – Cristina Nevado  
10:05-10:50 **IL23** – Davide Ravelli

10:50-11:20 *Coffee Break*

Chair: *David Nagib*  
11:20-12:05 **IL24** – Konrad Tiefenbacher  
12:05-12:50 **IL25** – Maria Christina White  
12:50-13:00 Concluding Remarks

13:00 *Lunch*

## DETAILED PROGRAM *i*CHAT 2026

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### Sunday, May 31

Museo Tuscolano and Scuderie Aldobrandini - Frascati

- 15:00-17:00      **Registration**
- 17:00-17:15      **Opening Remarks**
- Chair:*            *Osvaldo Lanzalunga*
- 17:15-18:00      **IL1    Paolo Melchiorre**  
Memory of Chirality in Radical Chemistry
- 18:00-18:45      **IL2    Zhiwei Zuo**  
LMCT catalysis for the selective functionalizations of strong bonds
- 18:45-19:05      **OL1    Fabrice Dénès**  
Radical Addition Translocation Cyclisation (RATC) processes:  
Diastereoselectivity and Memory of Chirality
- 19:30              *Welcome mixer @ Scuderie Aldobrandini*

### Monday, June 1

Villa Mondragone

- Chair:*            *Lingling Chu*
- 9:00-9:45        **IL3    Aidan McDonald**  
High-Valent Metal-Halides in Hydrogen Atom Transfer Oxidation and  
Halogenation of Hydrocarbons
- 9:45-10:30      **IL4    Miquel Costas**  
Expanding Enantioselective C-H Oxidation via Catalyst Design
- 10:30-10:50     **OL2    Liangliang Wu**  
Unveiling Hydrogen Transfer Mechanisms in Uranium Complexes:  
From Photochemical HAT to Thermal H<sub>2</sub> Splitting
- 10:50-11:20     *Coffee Break*
- Chair:*            *Teo Martin*
- 11:20-12:05     **IL5    Takahiko Kojima**  
Oxidation of Organic Substrates by Metal Complexes through Proton-  
Coupled Electron Transfer

- 12:05-12:50      **IL6    Leif Hammarström**  
Proton-Coupled Radical Transfer in Proteins and Small Model systems
- 13:00-14:30      **Lunch**
- Chair:*            *Fabrice Dénès*
- 14:30-15:15      **IL7    Rachel Narehood Austin**  
H atom rebound in the active site of non-heme iron enzymes and their MOF-based analogs
- 15:15-16:00      **IL8    Marc Garcia-Borràs**  
Precision Confinement as a Strategy to Unlock New Enzymatic Reactivity
- 16:00-16:30      **Coffee Break**
- 17:30              **Visit @ San Nilo Abbey, Grottaferrata**
- 19:30              **Pizza dinner @ Agricoltura Capodarco, Grottaferrata**

**Tuesday, June 2**            Villa Mondragone

- Chair:*            *Marc Garcia-Borràs*
- 9:00-9:45        **IL9    Rebecca Buller**  
Engineering Fe(II)/ $\alpha$ -ketoglutarate-dependent oxygenases for synthetic applications
- 9:45-10:30      **IL10   Rudi Fasan**  
Reprogramming Metalloenzymes for Stereoselective C–H Functionalization and Synthesis of Complex Scaffolds via New-to-Nature Chemistries
- 10:30-10:50     **OL3    George H. Bilonis**  
Conversion of Alkynes to  $\beta$ -Keto Nitriles via Photoactivation of an Isoxazole-Triarylamine Electron Donor-Acceptor Complex
- 10:50-11:20     **Coffee Break**
- Chair:*            *Irene Bosque*
- 11:20-12:05     **IL11   Robert J. Phipps**  
New Catalysts and Strategies for Enantioselective Hydrogen Atom Transfer

- 12:05-12:50 **IL12 Guosheng Liu**  
Enantioselective  $sp^3$  C-H Functionalizations via Copper-Catalyzed Radical Relay
- 12:50-13:10 **OL4 Sethuraman Muthuramalingam**  
General Access to Chiral Piperidines via Enantioselective HAT-Initiated C( $sp^3$ )-H Oxidation
- 13:10-14:30 **Lunch**

**Angewandte Chemie Sponsored Session**

*Chair: Daniele Mazzarella*

- 14:30-14:40 **Francesca Rita Novara**
- 14:40-15:25 **IL13 Timothy Noël**  
Tech-Enhanced Synthetic Organic Chemistry
- 15:25-16:10 **IL14 Lingling Chu**  
When Nickel Meets HAT: Emerging Reactivity and Transformations
- 16:10-16:30 **OL5 Marco Rusconi**  
Site-Selective B-H Activation *via* HAT to Access Xantyl Carboranes as Novel Bench-Stable Synthetic Platforms
- 16:30-17:00 **Coffee Break**

*Chair: Sarah Mazzotta*

- 17:00-17:45 **IL15 Daniele Leonori**  
Quantum Mechanical Tunneling in Hydrogen Atom Transfer
- 17:45-18:05 **OL6 Dmitrii Nagornii**  
C( $sp^3$ )-H sulfinylation of light hydrocarbons with sulfur dioxide via hydrogen atom transfer photocatalysis in flow
- 18:05-18:25 **OL7 Francesco Pasca**  
A Visible-Light Approach to Chemoselective Radical Decarboxylation for Modular Molecular Diversification
- 20:00 **Free Dinner**

**Wednesday, June 3**

Villa Mondragone

*Chair:* Rachel Narehood Austin

- 9:00-9:45 **IL16 Irene Bosque**  
Sustainable Electrochemical and Photoelectrocatalytic Platforms for Late-Stage C-H Functionalization
- 9:45-10:30 **IL17 Shelley D. Minter**  
Strategies for Electrifying Hydrogen Atom Transfer
- 10:30-10:50 **OL8 Giovanni Lonardi**  
A radical approach to the C-H borylation of arenes

10:50-11:20 ***Coffee Break***

*Chair:* Liangliang Wu

- 11:20-12:05 **IL18 Jonas Peters**  
Functional synthetic reductases and mechanistic roles for PCET to enhance efficiency
- 12:05-12:50 **IL19 Amy Rosenzweig**  
Enzymatic conversion of methane to methanol

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

*Chair:* Shuming Chen

- 14:30-15:15 **IL20 David A. Nagib**  
Harnessing Radical Polarity to Enable HAT
- 15:15-16:00 **IL21 Martin Srncic**  
A Single Origin of Mechanistic Diversity in Radical-Mediated X-H Bond Activation Across Nearly 20k Reactions
- 16:00-16:20 **OL9 Luca Capaldo**  
Photocatalyzed Decarbonylative Hydrogen Atom Transfer
- 16:20-16:40 **OL10 Filippo Scarchilli**  
Polarity Enhancement as a General Strategy for Chemoselective C(sp<sup>3</sup>)-H over C=C Bond Oxygenation

16:40 ***Coffee Break & Poster Session***

19:30 ***Conference dinner @Ristorante Cacciani, Frascati***

## Thursday, June 4

Villa Mondragone

*Chair:* Luca Capaldo

9:00-9:20

**OL11 Sarah Mazzotta**

Photo-Induced Hydrogen Atom Transfer Enables Selective C–H Functionalization of Monosaccharides

9:20-10:05

**IL22 Cristina Nevado**

Asymmetric remote functionalization of alkenes

10:05-10:50

**IL23 Davide Ravelli**

Aliphatic C–H Bonds Functionalization: The Photocatalytic Way

10:50-11:20

*Coffee Break*

*Chair:*

*David A. Nagib*

11:20-12:05

**IL24 Konrad Tiefenbacher**

Selective C–H Oxidation of Alkanes at the Medial Position

12:05-12:50

**IL25 Maria Christina White**

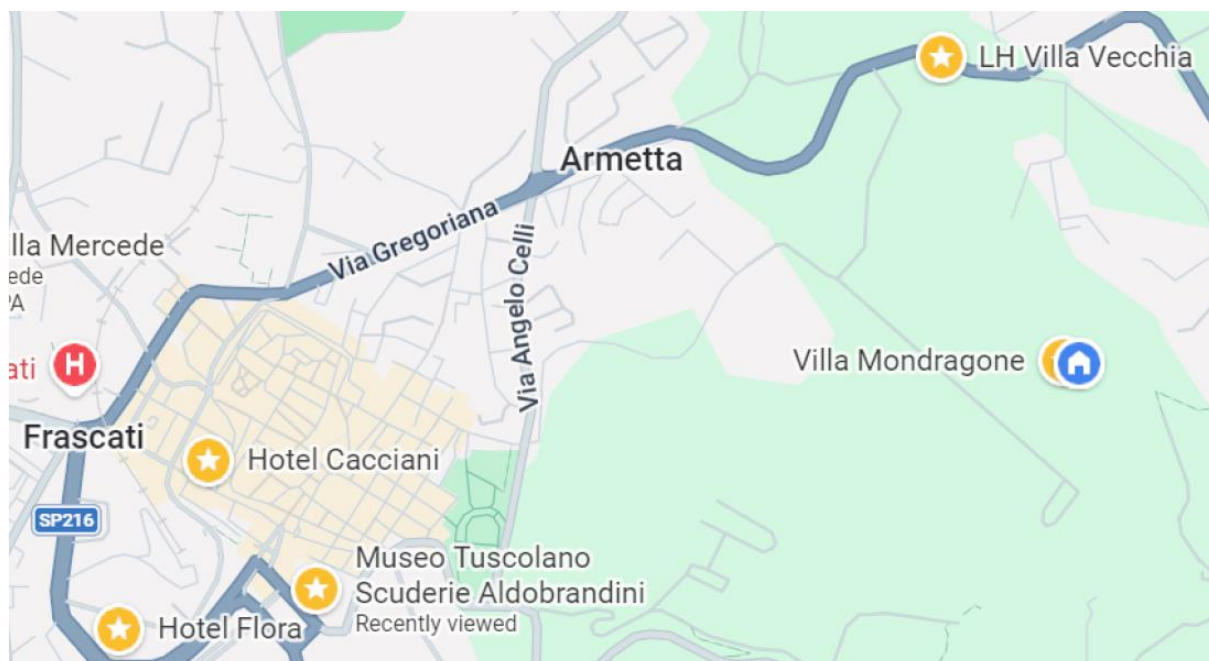
Site-Selective C–H Oxidation

12:50-13:00

**Concluding Remarks**

13:00

**Lunch**



## CONTRIBUTED ORAL LECTURES

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- OL1** George H. Bilonis and Giacomo E. M. Crisenza  
Conversion of Alkynes to  $\beta$ -Keto Nitriles via Photoactivation of an Isoxazole-Triarylamine Electron Donor-Acceptor Complex
- OL2** Luca Capaldo, Luna Raineri, Valerio Morlacci, Elena Cassera, Vittoria Martini, Davide Ravelli and Maurizio Fagnoni  
Photocatalyzed Decarbonylative Hydrogen Atom Transfer
- OL3** F. Dénès, C. S. Gloor, V. Soulard, and P. Renaud  
Radical Addition Translocation Cyclisation (RATC) processes: Diastereoselectivity and Memory of Chirality
- OL4** Giovanni Lonardi, Piero Soppelsa, Nunzio Matera, Chiara Stavagna, Xheila Yzeiri, Cornelia Buettner, Massimo Bietti, and Daniele Leonori  
A radical approach to the C–H borylation of arenes
- OL5** Sarah Mazzotta  
Photo-Induced Hydrogen Atom Transfer Enables Selective C–H Functionalization of Monosaccharides
- OL6** Dmitrii Nagornii, Fabian Raymenants, Nikolaos Kaplaneris and Timothy Noël  
C(sp<sup>3</sup>)-H sulfinylation of light hydrocarbons with sulfur dioxide via hydrogen atom transfer photocatalysis in flow
- OL7** Francesco Pasca, Giuseppe Romanazzi, Marco Colella and Renzo Luisi  
A Visible-Light Approach to Chemoselective Radical Decarboxylation for Modular Molecular Diversification
- OL8** Marco Rusconi, Eugenia Magi, Polyssena Renzi, Emanuele Azzi, Valeria Lagostina, Enrico Salvadori, Mario Chiesa, Birgit Hischa, Giovanni Ghigo and Annamaria Deagostino  
Site-Selective B-H Activation *via* HAT to Access Xantyl Carboranes as Novel Bench-Stable Synthetic Platforms
- OL9** Filippo Scarchilli, Marco Galeotti, Sergio Sisti, Jacopo Mancini, Andrea Meuti, artina. Cottone, Michela Salamone, Miquel Costas and Massimo Bietti  
Polarity Enhancement as a General Strategy for Chemoselective C(sp<sup>3</sup>)-H over C=C Bond Oxygenation
- OL10** Sethuraman Muthuramalingam, Josep M. Luis, Arnau Call, Quentin Lefebvre, Matthew S. Sigman and Miquel Costas  
General Access to Chiral Piperidines Via Enantioselective HAT-Initiated C(sp<sup>3</sup>)-H Oxidation
- OL11** Liangliang Wu  
Unveiling Hydrogen Transfer Mechanisms in Uranium Complexes: From Photochemical HAT to Thermal H<sub>2</sub> Splitting

## POSTER PRESENTATIONS

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- P1** **Jack Bannister, Alfie Taylor and Michael F. Greaney**  
Exploring the limits of a photocatalytic acyl radical initiated Smiles Truce rearrangement
- P2** **Davide Castiglione and Vittorio Pace**  
(Di)chloromethyl lithium-mediated homologation of aryl-carbodiimides en route to  $\alpha$ -chloro and  $\alpha,\alpha$ -dichloroacetamides
- P3** **Shuming Chen, Kyogo Nagashima and Jiajia Ma**  
DFT Investigations into Chemoselective Heteroarene Reduction by Tandem Energy Transfer (EnT) and Hydrogen Atom Transfer (HAT)
- P4** **Arnau Cornellà, Marco Galeotti, Loélie Ribadeau-Dumas, Mariia Kirilova, Filippo Scarchilli, Andrea Palone, Tomer Mintz, Doron Pappo, Massimo Bietti, Cristina Nevado and Miquel Costas**  
Desymmetrization of Non-natural Carbasugars via Non-directed C( $sp^3$ )-H Bond Oxidation in Inositol Derivatives
- P5** **Alessandro Iannini, Roberto Pio Destriere, Silvia Pezzola, Lorenzo Tommasi, Federica Sabuzi and Perluca Galloni.**  
From Pigments to Photocatalysts: New Soluble Quinacridone Derivatives
- P6** **Fabio Ioele, Filippo Scarchilli, Marco Galeotti, Arnau Plana, Michela Salamone, Miquel Costas and Massimo Bietti**  
Desymmetrization of Cyclopropane Derivatives via Non-directed Enantioselective C( $sp^3$ )-H Bond Oxidation
- P7** **Leonardo Latini, Marharyta Laktsevich-Iskryk, Rajendra Kumar Mallick, Maksim Ošeka and Daniele Mazarella**  
Merging Electrochemistry and Aminocatalysis: A Reliable Platform for Enantioselective SOMO Transformations
- P8** **Jacopo Mancini, Chiara Stavagna, Francesco Pileri, Giovanni Lonardi, Enrique M. Arpa, Marco Galeotti, Sergio Sisti, Fabio Julià, Michela Salamone, Daniele Leonori and Massimo Bietti**  
Importance of Polar Effects in Halogen-Atom Transfer from Alkyl Iodides to HAT-generated  $\alpha$ -Aminoalkyl Radicals. A Kinetic and Computational Evaluation of the Role of Structural and Medium Effects
- P9** **Valerio Morlacci, Elena Cassera, Vittoria Martini, Serena Abrami, Nicola Della Ca', Davide Ravelli, Maurizio Fagnoni and Luca Capaldo.**  
A Decarbonylative Strategy to Enhance Efficiency and Regioselectivity in Photocatalyzed Hydrogen Atom Transfer
- P10** **Andrea Palone, Enrico Sfreddo and Paolo Melchiorre**  
Light-driven Desymmetric Functionalization of Aliphatic C-H Bonds

- P11** Arnau Plana, **Filippo Sarchilli, Marco Galeotti, Massimo Bietti and Miquel Costas**  
Synthesis of novel pyridine-based manganese catalysts for enantioselective C(sp<sup>3</sup>)-H oxidation
- P12** Elena Quadri, **Giuseppe D'Amico and Davide Ravelli**  
Photocatalyzed hydroacylation of allenolate esters via Hydrogen Atom Transfer (HAT)
- P13** Luna Raineri, **Valerio Morlacci, Ana Maria Constantin, Aleksandr Voronov, Giovanni Maestri, Nicola Della Ca', and Luca Capaldo**  
Aliphatic Aldehydes as CO Surrogates via Photocatalyzed Hydrogen Atom Transfer
- P14** Enrico Sfreddo, **Aleksa Durdevic, Andrea Palone, Tristan von Münchow, Nunzio Matera, Andrea Mazzanti and Paolo Melchiorre**  
Stereoretentive Norrish-Yang Photocyclization through Conformational Gating
- P15** Giorgia Urriani, **Chiara Pappagallo and Giorgio Olivo<sup>a</sup>**  
Selective C-H Functionalization directed by Dynamic Covalent Chemistry