

Curriculum Vitae

Prof. Dr. Paolo Melchiorre (29/05/1973) - Italian

ICREA Research Professor & ICIQ Senior Group Leader

Institute of Chemical Research of Catalonia (ICIQ)

Tarragona – Spain. E-mail: pmelchiorre@iciq.es

Web site: http://www.iciq.org/research/research_group/prof-paolo-melchiorre/

Twitter handle: @MelchiorreGroup

Researcher ID: K-9301-2014 [\[link\]](#) – ORCID: 0000-0001-8722-4602



The following list summarises the most important steps of his educational and professional career:

• MSc in Chemistry	University of Bologna (Italy)	1993-1999
• PhD in Chemical Sciences	University of Bologna	2000-2003
• Research Period at Centre for Catalysis	University of Århus (DK)	2002
• Postdoctoral Fellow in Chemistry	University of Bologna	2003-2006
• Assistant Professor	University of Bologna	2007-2009

CURRENT POSITION

Sept. 2009-present Research Professor & Senior Group Leader, ICIQ – Tarragona, Spain

Main Professional Experience

September 2009 PM moved to the *Institute of Chemical Research of Catalonia* (ICIQ) in Tarragona as an ICREA (Catalan Institution of Research and Advanced Studies) Professor and ICIQ Senior Group Leader.

October 2007 Assistant Professor (Ricercatore) at Bologna University – *Alma Mater Studiorum* Bologna (Italy) - Dept. of Organic Chemistry, Industrial Chemistry Faculty

Research Record

Paolo Melchiorre has authored more than 125 publications in international journals with a high impact factor (e.g. 3 × *Nature*, 3 × *Nature Chemistry*, 42 × *Angewandte Chemie*, 9 × *the Journal of American Chemical Society*, 1 × *PNAS*, 1 × *Nature Protocols*, 3 × *Chemical Science*, 8 × *Organic Letters*, 4 × *Chemistry European Journal* and 5 × *Chemical Communication*) and seven book chapters.

His papers have attracted more than 10700 citations (source: *ISI-Web of Science as of Sept. 21, 2020*)

h factor = 62

PM has delivered more than 190 invited lectures and seminars at the national and international level.

He has served as referee for the following international journals, among others: *Nature*, *Nature Chemistry*, *Nature Comm.*, *Nature Protocols*, *Nature Chem. Biol.*, *Angew. Chem. Int. Ed.*, *J. Am. Chem. Soc.*; *Chem. Sci. etc.*

Research Interest

His current scientific interests lie on the discovery and mechanistic elucidation of new asymmetric organocatalytic and photochemical processes that address unsolved problems in synthetic methodology. The final aim is to develop environmentally friendly and innovative catalytic methods that will find widespread use in organic synthesis.

Memberships

Società Chimica Italiana (from 2004)

American Chemical Society ACS (from 2010)

Real Sociedad Española de Química RSQE (from 2010)

Royal Society of Chemistry, RSC (from 2020)

Editorial Responsibility in Scientific Journals

Member of the Advanced Synthesis and Catalysis (Wiley) Academic Advisory Board (from 2013)

Member of the International Advisory Board of ChemCatChem (Wiley, from 2013)

Member of the International Advisory Board of ChemPhotoChem (Wiley, from 2016)

Associate Editor of *Chemical Science* (RSC, from 2019)

AWARDS & DISTINCTIONS

- 2006 - Invitation to the 41st EUCHEM Conference on Stereochemistry, Bürgenstock, as part of the Junior Scientists Participation programme.
- 2007 - Recipient of the “**G. Ciamician**” **Gold Medal** of the Italian Chemical Society.
- 2008 - Recipient of the **Liebig Lectureship** awarded by the German Chemical Society
- 2009 - **Thieme** Journal Prize
- 2009 - ICREA (Institutió Catalana de Recerca i Estudis Avançats) Research Professor
- 2009 - ICIQ Senior Group Leader
- 2009 - Selected for the 1st EUCHEM Organic Division Young Investigator's Workshop, Liblice
- “*Young Talented Lecture*” in the 17th European Symposium on Organic Chemistry (ESOC 2011), Crete, Greece, July 2011
- 2011 - **ERC Starting Grant** to carry out the 5-year project “ORGA-NAUT: Exploring Chemical Reactivity with Organocatalysis”
- 2013 - **JSPS Fellowship** under the FY2013 Program for Research in Japan
- 2014 - **Erdtman Lecture 2014** – Stockholm (Sweden)
- 2015 - **Thieme Lecture** – DOMINOCAT SYMPOSIUM – Aachen (Germany)
- 2015 - **ERC Consolidator Grant** to carry out the 5-year project “CATA-LUX” (2016-2021)
- 2016 - Prize for Scientific Excellence from the Royal Spanish Chemical Society (RSEQ)
- 2019 - “Giorgio Modena” Medal from the Italian Chemical Society
- 2020 – **ERC PoC Grant** to carry out the 18-month project “LIGHT-COAT” (2020-2021)
- 2020 Fellow of the Royal Society of Chemistry (*FRSC*)

Scientific Evaluations

2009: ICREA – Research Professorship

following an international evaluation on the research profile, candidature presentation supported by Prof. K. A. Jørgensen (Aarhus University, DK) and Prof. D. Enders (Aachen University, DE) - one out of 22 positions from all disciplines.

2012: Scientific National Habilitation (Italian Ministerial Evaluation Panel, ASN)

through an international research commission, PM was awarded an habilitation as Full Professor.

2012: 3-years ICREA Scientific Evaluation

following an international evaluation on the research activities for the period (Sept. 2009/Sept. 2012).
Granted outstanding status (maximum mark).

2014: 5-years ICIQ Scientific Evaluation

following an evaluation from the ICIQ Scientific Advisory Board (information at <http://www.iciq.org/about-us/organisational-chart/scientific-advisory-board/>) on the research activities for the period (Sept. 2009/May 2014). Granted excellent status

2018: 5-years ICREA Scientific Evaluation

following an international evaluation on the research activities for the period (Sept. 2012/Dec. 2017).
Granted outstanding status (maximum mark).

2019: 5-years ICIQ Scientific Evaluation

following an evaluation from the ICIQ Scientific Advisory Board (information at <http://www.iciq.org/about-us/organisational-chart/scientific-advisory-board/>) on the research activities for the period (2014/2018).
Granted excellent status

Research Funding

Ongoing Research Projects:

ERC Consolidator Grant, *grant agreement no. 681840*

CATA-LUX - Light-Driven Asymmetric Organocatalysis

Funding agency: ERC (European Research Council)

Period: from 1-Nov-2016 till 30-Oct-2021

Amount: 2.000.000€

Role: Principal Investigator

ERC Proof of Concept Grant, grant agreement no. 899541**LIGHT-COAT**

Funding agency: ERC (European Research Council)

Period: from 1-Jun-2020 till 30-Nov-2021

Amount: 150.000€

Role: Principal Investigator

H2020-MSCA-ITN-2016, grant agreement no. 722591**PHOTOTRAIN**

Funding agency: MSCA-ITN

Period: from 1-Nov-2016 till 30-Oct-2020

Amount: 430.000€

2017 SGR 981

Funding agency: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

Period: from 1-Jan-2017 till 31-Dec-2020

Amount: 44.480€

Role: Principal Investigator

PHOTO-(M)-TOOLS

PID2019-106278GB-I00 (subprograma BQU)

Funding agency: Proyectos de I+D+i 2019 - Ministerio de Educación y Ciencia (MICINN), España

Period: from 1-Jun-2020 till 30-Dec-2023

Amount: 254.000€ / *Role:* Principal Investigator

Past Research Projects (selected examples):**ERC Starting Grant, grant agreement no. 278541**

ORGA-NAUT - Exploring Chemical Reactivity with Organocatalysis

Funding agency: ERC (European Research Council)

Period: from 1-Nov-2011 till 30-Oct-2016

Amount: 1.500.000€

Role: Principal Investigator

CTQ2016-75520-P (subprograma BQU)

PHOTO-ORGANO CAT - Making Biologically Relevant Chiral Molecules with Light

Funding agency: Proyectos de I+D+i 2016 - Ministerio de Educación y Ciencia (MICINN), España

Period: from 1-Jan-2017 till 30-Nov-2020

Amount: 254.000€

Role: Principal Investigator

CTQ2013-45938-P (subprograma BQU)

VINYLOGOUS ORGANO-CASCADE CATALYSIS

Funding agency: Proyectos de I+D+i 2013 - Ministerio de Educación y Ciencia (MICINN), España

Period: from 1-Jan-2014 till 31-Dec-2016

Amount: 169.000€

Role: Principal Investigator

CTQ2010-15513 (subprograma BQU)

Organo-Cas Cat

Funding agency: Proyectos de I+D+i 2010 - Ministerio de Educación y Ciencia (MICINN), España

Period: from 1-Jan-2011 till 31-Dec-2013

Amount: 148.000€

Role: Principal Investigator

Ongoing Research Contracts (selected examples):**Postdoctoral fellowships**

Marie Curie H2020-MSCA-IF-2019 agreement no. 894795

PHOTO-CYCLE

Funding agency: REA (Research Executive Agency), EU

Period: from 1-March-2020 till 28-Feb-2022

Amount: 160.932€. *Name of the Fellow:* Dr. Dengke Ma

Past Research Contracts (selected examples):

Marie Curie H2020-MSCA-IF-2017 agreement no. 796460

PHOTO-FLUOR

Funding agency: REA (Research Executive Agency), EU
Period: from 1-May-2018 till 30-Apr-2020
Amount: 170.121€. *Name of the Fellow:* Dr. Sudipta Raha-Roy

Marie Curie H2020-MSCA-IF-2017 agreement no. 795793
PHOTO ORGANO-Ir CAT

Funding agency: REA (Research Executive Agency), EU
Period: from 1-Apr-2018 till 31-Mar-2020
Amount: 158.121€. *Name of the Fellow:* Dr. Giacomo Crisenza

Marie Curie H2020-MSCA-IF-2017 agreement no. 794211
PHOTOCHIRO

Funding agency: REA (Research Executive Agency), EU
Period: from 1-March-2018 till 28-Feb-2020
Amount: 170.121€. *Name of the Fellow:* Dr. Catherine Holden

Marie Curie H2020-MSCA-IF-2015 agreement no. 702405
PHOTO ORGANO-GOLD

Funding agency: REA (Research Executive Agency), EU
Period: from 1-May-2016 till 30-Apr-2018
Amount: 158.121€. *Name of the Fellow:* Dr. Zhong-Yan Cao

Marie Curie H2020-MSCA-IF-2014 agreement no. 658980
Organo-Gold Cat

Funding agency: REA (Research Executive Agency), EU
Period: from 1-Jun-2015 till 31-May-2017
Amount: 158.121€. *Name of the Fellow:* Dr. Charlie Verrier

Forschungsstipendien für promovierte Nachwuchswissenschaftler (Postdoc- Programm)
Nr.: 91509740

Control of Remote Stereochemistry in the Synthesis of Complex Molecules by Means of Vinylogous Organocascade Catalysis
Funding agency: DAAD German Academic Exchange Service
Period: from 1-Aug-2013 till 31-Jul-2014
Name of the Fellow: Dr. Nora Hofmann

Marie Curie FP7-PEOPLE-2010-IIF agreement no. 273088
Organo-Cas Cat

Funding agency: REA (Research Executive Agency), EU
Period: from 25-Apr-2011 till 24-Apr-2013
Amount: 175.000€. *Name of the Fellow:* Dr. Yankai Liu

Juan de la Cierva. JCI-2011-10793

Developing new organocatalytic approaches to chemical synthesis using novel reactivity concepts
Funding agency: Ministerio de Educación y Ciencia, España
Period: from 3-Jan-2011 till 10-Nov-2013. *Name of the Fellow:* Dr. Antonio Moran

PhD fellowships

4 FPU Fellowships Formación de Profesorado Universitario (FPU-MED, Grant agreements AP2009-0950, AP2010-1963, FPU13/02402 and FPU19/05872)

3 FPI Fellowships Formación e Incorporación de Investigadores (FPI). *Funding agency:* Ministerio de Educación y Ciencia, España.

Organization of Scientific Events

- Mini-symposium "Lights on Chemistry" – ICIQ, Tarragona, October 2015: 160 participants (info at <http://lightsonchemistry.iciq.es/>)
 - Japanese-Spanish Symposium on Modern Synthetic Methodology – Gijon (Spain). April 2017: 150 participants (info at <http://sjmsm.iciq.es/>)
 - 1st European Meeting of Excellence in Chemistry and Molecular Sciences (EMECS) – Vienna (Austria). December 3, 2018: 30 selected participants from the industrial and academic chemistry sectors.
- Since 2019 Co-organiser of the IASOC - Ischia Advanced School of Organic Chemistry, Ischia - Italy.

The Melchiorre Group

The Melchiorre Group comprises a substantial number of collaborators from across the world, creating an international and stimulating environment:

- Supervisor: Paolo Melchiorre (Italian)
- 11 PhD students: Eduardo de Pedro Beato (Spain), Eugenio Gandolfo (Italy), Davide Spinnato (Italy), Adriana Faraone (Italy), Matteo Balletti (Italy), Emilien Le Saux (France), Whei Zou (China), Eleni Georgiou (Cyprus, co-supervisor), Laura Kqiku (Germany) and Thomas Hin-Fung Wong (Australia).
- 4 Postdoctoral fellows: Dr. Giacomo Crisenza (Italy), Dr. Xinjun Tang (China); Dr. Benjamin Laroche (France); Dr. Dengke Ma (China); Dr. Riccardo di Sanza (Italy); Dr. Martin Berger (Austria), Dr. Will Hartley.
- 1 Laboratory technician: Dr. Laia Cuesta (Spain), 1 Administrative support: Nuria Planella

Supervised Ph. D. Theses at ICIQ

15 – Daniele Mazzealla

Defense: 07-Sep-2020

Title of the Thesis: “C-C and C-B Bond Forming Strategies Driven by the Photoexcitation of Organocatalytic Intermediates”

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next Position: Postdoctoral Research Associate at UvA (University of Amsterdam) – The Netherlands.

14 – Pablo Bonilla

Defense: 09-Jul-2020

Title of the Thesis: “Combining Iminium Ion-Mediated Catalysis and Photochemistry to Develop Enantioselective Radical Processes”

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next Position:

13 – Nurtalya Alandini

Defense: 08-Jul-2020

Title of the Thesis: “1,4-Dihydropyridines as Versatile Reagents in Photochemical Carbon-Carbon Bond-Forming Processes”

University: Universidad Rovira i Virgili – Tarragona, Punctuation: Cum Laude

Next position: Postdoctoral researcher at LMU Munich – Germany (advisor: Prof. Paul Knochel)

12 - Dr. Giandomenico Magagnano

Defense: 24-Oct-2019

Title of the Thesis: “Photochemical Processes Enabled by the Direct Excitation of Organic Intermediates”

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Postdoctoral researcher at CSOL Unit, ICIQ, Tarragona – Spain.

11 - Dr. Sara Cuadros

Defense: 17-Oct-2019

Title of the Thesis: “Exploiting Organocatalysis in Photochemical Processes”

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Research fellow at the Janssen Pharmaceutical Companies of Johnson & Johnson, Toledo – Spain (advisor: Dr. Jesús Alcázar)

10 - Dr. Luca Buzzetti

Defense: 29-Oct-2018

Title of the Thesis: “Photochemical Strategies for Carbon-Carbon Bond Forming Processes”

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Postdoctoral fellow at EPFL, Lausanne – Switzerland (advisor: Prof. Jerome Waser)

9 - Dr. Lukasz Wozniak

Defense: 23-Oct-2017

Title of the Thesis: “New Strategies for Enantioselective Catalysis of Photochemical Reactions”

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Postdoctoral fellow at EPFL, Lausanne – Switzerland (advisor: Prof. Nicolai Cramer)

8 - Dr. Giacomo Filippini

Defense: 17-Oct-2017

Title of the Thesis: “Development of Radical Reactions triggered by the Photochemical Activity of Organic Intermediates”

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Postdoctoral fellow at University of Trieste – Italy (advisor: Prof. Maurizio Prato)

7 - Dr. Ana Bahamonde

Defense: 15-Jun-2017

Title of the Thesis: "Development and Mechanistic Elucidation of Photochemical Reactions"

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Postdoctoral fellow at University of Utah – USA (advisor: Prof. Matthew Sigman)

6 - Dr. David Bastida

Defense: 15-Dec-2015

Title of the Thesis: "Novel Enantioselective Aminocatalytic Processes by means of Vinylogous Reactivity and Photoredox Catalysis"

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Production Chemist at Esteve Quimica

5 - Dr. Mattia Silvi

Defense: 15-Oct-2015

Title of the Thesis: "New Directions in Aminocatalysis: Vinylogy and Photochemistry"

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: MSCA Postdoctoral fellow at University of Bristol – UK (advisor: Prof. Varinder Aggarwal)

4 - Dr. Manuel Nappi

Defense: 17-Oct-2014

Title of the Thesis: "Novel Organocatalytic and Photochemical Processes"

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: MSCA Postdoctoral fellow at University of Cambridge – UK (advisor: Prof. Matthew Gaunt)

3 - Dr. Xu Tian

Defense: 10-Apr-2014

Title of the Thesis: "New Asymmetric Organocatalytic Processes promoted by *Cinchona*-based Primary Amines"

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: Assistant Professor at Central South University (CSU) – Changsha (China)

2 - Dr. Carlo Cassani

Defense: 16-Dec-2013

Title of the Thesis: "Aminocatalytic Functionalization of Carbonyl Compounds: a Powerful Strategy for Enantioselective Reaction Development"

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Next position: MSCA Postdoctoral fellow at the University of Goteborg (Sweden). Presently at Astra Zeneca

1 - Dr. Giulia Bergonzini

Defense: 24-Oct-2013

Title of the Thesis: "Assessing the versatility of organocatalysis as a strategy for enabling novel asymmetric transformations"

University: Universidad Rovira i Virgili – Tarragona. Punctuation: Cum Laude

Present position: postdoctoral associate at the University of Goteborg (Sweden). Presently at Astra Zeneca

Current PhD Students**Eduardo de Pedro Beato** (expected 2021)**Eugenio Gandolfo** (expected 2021)**Adriana Faraone** (expected 2022)**Davide Spinnato** (expected 2022)**Matteo Balletti** (expected 2023)**Emilien Le Saux** (expected 2023)**Wei Zhou** (expected 2023)**Laura Kqiku** (expected 2024)**Thomas Hin-Fung Wong** (expected 2024)

Supervised Post-doc's and visiting students

Present Postdoctoral fellows:

Dr. Will Hartley. PhD from University of St Andrews, UK (Prof. Andrew D. Smith)
Dr. Martin Berger. PhD from University of Viena, Austria (Prof. Nuno Maulide)
Dr. Riccardo di Sanza. PhD from University of Nottingham, UK (Prof. Hon Wai Lam and Dr. Liam Ball).
Dr. Dengke Ma. PhD from Zhejiang University, China (Prof. Shengming Ma)
Dr. Xinjun Tang, PhD from Shanghai Institute of Organic Chemistry (Prof. Shengming Ma)

Past Postdoctoral fellows:

Dr. Giacomo Crisenza, 2017/2020. Next position: Lecturer at the University of Manchester (U.K)
Dr. Benjamin Laroche, 2019/2020 Next position: Associate professor at ESPCI Paris – PSL (France)
Dr. Catherine Holden, 2017/2020. Next position: Team Leader at Syngenta Crop Protection (U.K.)
Dr. Danilo M. Lustosa, 2017/2018. Next position: postdoc in the Anat Milo's Group (Israel)
Dr. Giulio Goti, 2017/2019.
Dr. Bartosz Bieszczad, 2017/2019. Next position: University of Regensburg (Germany)
Dr. Bertrand Schweitzer-Chaput, 2015/2019. Next position: Janssen, Beerse (Belgium)
Dr. Luca Alessandro Perego, 2018/2019 Next position: Chemical Process R&D - Johnson & Johnson (Janssen division), Schaffhausen (Switzerland).
Dr. Matthew Allan Horwitz, 2017/2018. Next position: Postdoc - University of Oxford (U.K.)
Dr. Thomas Van Leeuwen, 2017/2018. Next position: Syncom, Groningen (The Netherlands)
Dr. Zhong-Yan Cao, 2016/2018. Next Position: Shanghai Key Laboratory of Green Chemistry and Chemical Processes, School of Chemistry and Molecular Engineering, East China Normal University (China)
Dr. Sudipta Raha Roy, 2017/2018. Next position: IT Delhi – Chemistry Department (India)
Dr. Alexis Prieto, 2016/17. Next position: Institut Lavoisier de Versailles (France).
Dr. Charlie Verrier, 2014/2017. Next position: University of Lyon (France).
Dr. Alberto Vega, 2015/2017. Next position: University of Mexico City (Mexico).
Dr. Yannick Rey, 2015/2017. Next position: Merck/Sigma-Aldrich (Switzerland).
Dr. Hamish Hepburn, 2015/2017. Next position: University of Oxford (Mexico).
Dr. John Joseph Murphy, 2014/2016. Next position: Postdoc at MPI, Mulheim (Germany).
Dr. Luca Dell'Amico, 2014/2016. Next position: Assistant Professor at the University of Padova (Italy).
Dr. Suva Paria, 2014/2016. Next position: Postdoc at the University of Kyoto, Japan – Prof. Keiji Maruoka.
Dr. Sandeep Reddy Kandukuri, 2013. Next position: Senior Research Scientist in Syngenta, Goa (India)
Dr. Elena Arceo Rebollo, 2011/2014. Next position: R&D Chemist at TCI America Inc. Portland, USA
Dr. Nora Hofmann, 2013/2014.
Dr. Indranil Chatterjee, 2012/2014. Next position: Assistant professor at IIT Ropar, Punjab, India.
Dr. Ana Belén Álvarez Fernández, 2012.
Dr. Yankai Liu, 2010/2012. Next position: Assistant Professor at Ocean University – Qiangdao, China.
Dr. Antonio Moran, 2011/2013. Next Position: R&D technician at EXPAL propelants factory, Múrcia.
Dr. Renè Tannert, 2012. Next position: Researcher at the German Aerospace Center (DLR), Cologne.
Dr. Igor D. Jurberg, 2012. Next position: Assistant Professor at the University of Campinas, Brazil.
Dr. Silvia Vera, 2010/2011. Next position: Associate Researcher at the University of Basque Country.

Erasmus Students:

Mr. Gaétan Archer

Erasmus student

Chimie Paris Tech -École Nationale Supérieure de Chimie de Paris- (France)

Period of research at ICIQ: 17/02/2020 till 14/08/20

Miss Denise Cibú

Erasmus student placement under Lifelong learning Programme

LMU Munich (Germany)

Academic year 2012/2013; period of research at ICIQ: from 1/6/13 till 31/8/13

Mr. Quenten Deraedt

Université Notre-Dame de la Paix FUNDP B NAMUR 01 (Belgium)

Erasmus stage 2009/2010: period of research at ICIQ: from 25/1/2010 till 24/4/2010

Subject area 442 ERA 13.3 chemistry

Mr. Alexandre Rossignon

Université Notre-Dame de la Paix FUNDP B NAMUR 01 (Belgium)

Erasmus stage 2012/2013: period of research at ICIQ: from 25/2/2013 till 27/5/2013
Subject area 442 ERA 13.3 chemistry

Visiting PhD students:

Yang Yang, Nov 2019 – Mar 2020
University of Copenhagen (Denmark)

Robert Pawlowski, March 2020
Institute of Organic Chemistry of the Polish Academy of Sciences (Poland)

Tommaso Bortolato, Jan-Mar 2020
Università degli Studi di Padova (Italy)

Oliwia Matuszewska, Sep-Nov 2019
Cardiff University (UK)

Cristofer Pezzetta, May-Sep 2017
Dr. Reddy's Laboratories (Cambridge)

Tsuyoshi Otani, Jul-Sep 2017
Nagoya University (Japan)

Maksim Ošeka, Oct 2016 - Apr 2017
Tallinn University of Technology (Estonia)

Derick R. White, Jun-Aug, 2015
PhD student at University of Michigan (USA)

Morgane Detraz, Feb-Aug 2015
Next Position: PhD student at the University of Rouen (France)

Bryan Shigeru Matsuura, June-Sep. 2014
PhD student at University of Michigan (USA)

Dr. Elisa Montroni, Feb-Jul 2013
Alma Mater Studiorum-Università di Bologna- Dipartimento di Chimica 'Giacomo Ciamician'
Fellowship 'Marco Polo' (Italy) for research period abroad

Mr. Rodrigo Cesar da Silva, Feb-Oct 2013
Federal University of Sao Carlos - UFS Car (Brazil)
Fellowship 'FAPESP (0907281-0), (Brazil) for research period abroad

Dr. Michele Retini, Apr-Oct 2011
Università degli Studi di Urbino 'Carlo Bo' – Urbino (Italy)
Fellowship 'Marco Polo' (Italy) for research period abroad

Visiting professor:

Dr. Gianfranco Favi, Mar-May 2018
Università degli Studi di Urbino 'Carlo Bo' – Urbino (Italy)

Contributions to careers of early-stage researchers.

Some of my past associates have gone on to independent *academic careers*. Examples follow (*name*, time, present position): *Armando Carlone* (PhD 2005-2008) Associate Professor at University of L'Aquila - Italy; *Yankai Liu* (Marie Curie Fellow 2011-13) Assistant Professor at Ocean University - Qingdao, China; *Igor D. Jurberg* (Postdoc 2012) Assistant Professor at Campinas University – Brazil; *Indranil Chatterjee* (Postdoc 2012-2014) Assistant Professor at IIT Ropar, Punjab – India; *Xu Tian* (PhD 2010-2014) 'Thousand Talents Fellow' at Guangzhou Medical University – China; *Mattia Silvi* (PhD 2011-2015) Research Fellow at Nottingham University, UK; *Luca Dell'Amico* (Marie Curie Fellow 2015-2016) Associate Professor at the University of Padua - Italy; *Ana Bahamonde* (PhD 2014-2017) Assistant Professor at University of California, Riverside - USA; *Zhong-Yan Cao* (Marie Curie Fellow 2017-2018) Professor at Zhejiang

University of Technology, Hangzhou - China; *Xin-Jun Tang* (Postdoc 2019-2020) Assistant Professor at China University of Geosciences, Wuhan - China; *Benjamin Laroche* (Postdoc 2019-2020) Assistant Professor at ESPCI Paris – PSL, France.

Selected industry-related careers – *Giulia Bergonzini* (PhD 2009-2013) to Astra Zeneca, Goteborg – Sweden; *Carlo Cassani* (PhD 2009-2013) to Astra Zeneca, Goteborg – Sweden; *Elena Arceo Rebollo* (Postdoc 2011-2014) to Verisk Analytics Inc, Washington – USA; *Sandeep Reddy Kandukuri* (Postdoc 2013) to Syngenta, Goa – India; *Yannick Rey* (Postdoc 2015-2017) to Merck/Sigma-Aldrich – Switzerland; *John Murphy* (Postdoc 2015-2017) to Astra Zeneca, Goteborg; *Thomas Van Leeuwen* (Postdoc 2018) to Syncom, Groningen – the Netherlands; *Luca Perego* (Postdoc 2019) to Johnson & Johnson, Schaffhausen – Switzerland; *Bertrand Schweitzer-Chaput* (Postdoc 2015-2019) to Janssen, Beerse – Belgium; *Catherine Holden* (Marie Curie fellow 2018-2020) to Syngenta Crop Protection, Jealott's Hill – UK.

PUBLICATIONS

113 Research Articles
14 Reviews/Highlight Articles
7 Book Chapters
2 Patent

Paolo Melchiorre (*author profile*): *Angew. Chem. Int. Ed.* **2009**, *48*, 3389 [[link](#)]

PM has an h-factor of **62** and has attracted a total of 10730 citations for the period 1999-2020 (source: *ISI-Web of Science* as of September 21, 2020).

127. Synthetic Methods Driven by the Photoactivity of Electron Donor-Acceptor Complexes

Giacomo E. M. Crisenza, Daniele Mazzarella, and Paolo Melchiorre
J. Am. Chem. Soc. **2020**, *142*, 5461-5476 (review, open access [[Link](#)])

126. Chemistry glows green with photoredox catalysis

Giacomo E. M. Crisenza, and Paolo Melchiorre
Nat. Commun. **2020**, *11*, article number: 803 (review, open access [[Link](#)])

125. A Photochemical Organocatalytic Strategy for the alpha-Alkylation of Ketones by using Radicals

Davide Spinnato, Bertrand Schweitzer-Chaput, Giulio Goti, Maksim Oseka, and Paolo Melchiorre
Angew. Chem. Int. Ed. **2020**, *59*, 9485-9490 (open access [[Link](#)])

124. Amide Synthesis by Nickel/Photoredox-Catalyzed Direct Carbamoylation of (Hetero)Aryl Bromides

Nurtalya Alandini, Luca Buzzetti, Gianfranco Favi, Tim Schulte, Lisa Candish, Karl Collins, Paolo Melchiorre
Angew. Chem. Int. Ed. **2020**, *59*, 5248-5253 (open access [[Link](#)])

123. Photochemical generation of acyl and carbamoyl radicals using a nucleophilic organic catalyst: applications and mechanism thereof

Eduardo de Pedro Beato, Daniele Mazzarella, Matteo Balletti, and Paolo Melchiorre
Chem. Sci. **2020**, *11*, 6312-6324 (open access [[Link](#)])

122. Photochemical Asymmetric Nickel-Catalyzed Acyl Cross-Coupling

Euogenio Gandolfo, Xinjun Tang, Sudipta Raha Roy, and Paolo Melchiorre
Angew. Chem. Int. Ed. **2019**, *58*, 16854-16858 (open access [[Link](#)])

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G. Bartoli, M. Locatelli, P. Melchiorre, L. Sambri*
Eur. J. Org. Chem. **2007**, 2037-2049

28. Alcohols and Di-*tert*-butyl Dicarbonate: How the Nature of the Lewis Acid Catalyst May Address the Reaction to the Synthesis of *tert*-Butyl Ethers

G. Bartoli*, M. Bosco, A. Carlone, R. Dalpozzo, M. Locatelli, P. Melchiorre, L. Sambri
J. Org. Chem. **2006**, *71*, 9580-9588

27. A Simple Method of Protection of Hydroxy Compounds as O-Boc Derivatives under Lewis Acid Catalysis

G. Bartoli*, M. Bosco, A. Carlone, R. Dalpozzo, M. Locatelli, P. Melchiorre, P. Palazzi, L. Sambri
Synlett **2006**, 2104-2108

26. **Organocatalytic Asymmetric Conjugate Addition of 1,3-Dicarbonyl Compounds to Maleimides**
G. Bartoli*, M. Bosco, A. Carlone, A. Cavalli, M. Locatelli, A. Mazzanti, P. Ricci, L. Sambri, P. Melchiorre*
Angew. Chem. Int. Ed. **2006**, *45*, 4966-4970 - Selected as a **HOT Paper** [\[link\]](#)
Highlighted in *Synfact* 2006, 953
25. **A new Mild, General and Efficient Route to Aromatic Ethyl Carbonates in Solvent Free Conditions Promoted by Magnesium Perchlorate**
G. Bartoli, M. Bosco, A. Carlone, M. Locatelli, E. Marcantoni, P. Melchiorre, P. Palazzi, L. Sambri
Eur. J. Org. Chem. **2006**, 4429-4434
24. **tert-Butyl Ethers: Renaissance of an Alcohol Protecting Group. Facile Cleavage with Cerium(III) Chloride/Sodium Iodide**
G. Bartoli*, M. Bosco, A. Carlone, M. Locatelli, E. Marcantoni, P. Melchiorre, L. Sambri
Adv. Synth. Catal. **2006**, *348*, 905-910
23. **Solvent-Free Carbon-Oxygen Bond Formation Catalysed by CeCl₃·7H₂O/NaI: Tetrahydropyranylation of Hydroxy Groups**
G. Bartoli*, R. Giovannini, A. Giuliani, E. Marcantoni, M. Massaccesi, P. Melchiorre, M. Paoletti, L. Sambri
Eur. J. Org. Chem. **2006**, 1476-1482
22. **Allylation of Aldehydes Promoted by the Cerium(III) Chloride Heptahydrate/Sodium Iodide System: the Dependence of Regio- and Stereocontrol on the Reaction Conditions**
G. Bartoli*, A. Giuliani, E. Marcantoni, M. Massaccesi, P. Melchiorre, L. Sambri
Adv. Synth. Catal. **2005**, *347*, 1673-168
21. **Organocatalytic Asymmetric α -Halogenation of 1,3-Dicarbonyl Compounds**
G. Bartoli,* M. Bosco, A. Carlone, M. Locatelli, P. Melchiorre,* L. Sambri
Angew. Chem. Int. Ed. **2005**, *44*, 6219-6222 [\[link\]](#)
20. **Direct Catalytic Synthesis of Enantiopure 5-Substituted Oxazolidinones From Racemic Terminal Epoxides**
G. Bartoli,* M. Bosco, A. Carlone, M. Locatelli, P. Melchiorre,* L. Sambri
Org. Lett. **2005**, *7*, 1983-1985 [\[link\]](#)
19. **Unusual and Unexpected Reactivity of *t*-Butyl Dicarboxylate (Boc₂O) with Alcohols in the Presence of Magnesium Perchlorate. A New and General Route to *t*-Butyl Ethers**
G. Bartoli*, M. Bosco, M. Locatelli, E. Marcantoni, P. Melchiorre, L. Sambri
Org. Lett. **2005**, *7*, 427-430
18. **Highly Efficient Solvent-Free Condensation of Carboxylic Acids with Alcohols Catalysed by Zinc Perchlorate Hexahydrate, Zn(ClO₄)₂·6H₂O**
G. Bartoli*, J. Boeglin, M. Bosco, M. Locatelli, M. Massaccesi, P. Melchiorre, L. Sambri
Adv. Synth. Catal. **2005**, *347*, 33-38.
17. **Asymmetric Catalytic Synthesis of Enantiopure *N*-Protected 1,2-Amino Alcohols**
G. Bartoli,* M. Bosco, A. Carlone, M. Locatelli, P. Melchiorre,* L. Sambri
Org. Lett. **2004**, *6*, 3973-3975 [\[link\]](#)
16. **A Lewis Acid-Mediated Protocol for the Protection of Aryl Amines as their Boc-Derivatives**
G. Bartoli*, M. Bosco, M. Locatelli, E. Marcantoni, M. Massaccesi, P. Melchiorre, L. Sambri
Synlett **2004**, 1794-1798
15. **Asymmetric Aminolysis of Aromatic Epoxides: A Facile Catalytic Enantioselective Synthesis of *anti*- β -Amino Alcohols**
G. Bartoli,* M. Bosco, A. Carlone, M. Locatelli, M. Massaccesi, P. Melchiorre,* L. Sambri
Org. Lett. **2004**, *6*, 2173-2176 [\[link\]](#)
14. **Zn(ClO₄)₂·6H₂O as a Powerful Catalyst for the Conversion of β -Ketoesters into β -Enamino Esters**
G. Bartoli*, M. Bosco, M. Locatelli, E. Marcantoni, P. Melchiorre, L. Sambri
Synlett **2004**, 239-242
13. **Highly Stereoselective Reduction of β -Keto Amides: The First General and Efficient Approach to *N*-mono and non-Substituted *anti*- α -Alkyl β -Hydroxy Amides**
G. Bartoli*, M. Bosco, E. Marcantoni, P. Melchiorre, S. Rinaldi, L. Sambri
Synlett **2004**, 73-76

Publications as a PhD Student

12. Kinetic Resolution of Epoxides via C-C Bond Forming Reaction. Highly Enantioselective Addition of Indoles to *cis*, *trans*, and *meso* Aromatic Epoxides Catalysed by Cr(Salen) Complexes

M. Bandini, P. G. Cozzi, P. Melchiorre, A. Umani-Ronchi

Angew. Chem. Int. Ed. **2004**, *43*, 84-87 [\[link\]](#)

11. Direct Enantioselective Michael Addition of Aldehydes to Vinyl Ketones Catalyzed by Chiral Amines

P. Melchiorre, K. A. Jørgensen

J. Org. Chem. **2003**, *68*, 4151-4157 [\[link\]](#)

10. Catalytic enantioselective conjugated addition of indoles to simple α,β -unsaturated ketones

M. Bandini, M. Fagioli, P. Melchiorre, A. Melloni, A. Umani-Ronchi

Tetrahedron Lett. **2003**, *44*, 5843-5846

9. A Convenient Catalytic Procedure for the Addition of Trimethylsilyl Cyanide to Functionalized Ketones, Mediated by InBr₃ – Insight into the Reaction Mechanism

M. Bandini, P. G. Cozzi, A. Garelli, P. Melchiorre, A. Umani-Ronchi

Eur. J. Org. Chem. **2002**, 3243-3249

8. Indium(III) Bromide- Catalyzed the Regio- and Stereoselective Ring–Opening of Aromatic Epoxides with Indoles

M. Bandini, P. G. Cozzi, P. Melchiorre, A. Umani-Ronchi

J. Org. Chem. **2002**, *67*, 5386-5389

7. A Practical Indium Tribromide Catalysed Addition of Indoles to Nitroalkenes in Aqueous Media

M. Bandini, P. Melchiorre, A. Melloni, A. Umani-Ronchi

Synthesis **2002**, 1110-1114

6. Sequential One-pot InBr₃-Catalyzed 1,4- then 1,2- Nucleophilic Addition to Enones

M. Bandini, P. G. Cozzi, M. Giacomini, P. Melchiorre, S. Selva, A. Umani-Ronchi

J. Org. Chem. **2002**, *67*, 3700-3704

5. Chemo- and enantioselective catalytic addition of propargyl chloride to aldehydes promoted by [Cr(Salen)] complexes

M. Bandini, P. G. Cozzi, P. Melchiorre, R. Tino, A. Umani-Ronchi

Tetrahedron: Asymmetry **2001**, *12*, 1063-1069

4. Cr(Salen)-Catalyzed Addition of 1,3-Dichloropropane to Aromatic Aldehydes. A Simple Access to Active Vinyl Epoxides

M. Bandini, P. G. Cozzi, P. Melchiorre, S. Morganti, A. Umani-Ronchi

Org. Lett. **2001**, *3*, 1153 -1155

3. Indium tribromide: a highly effective catalyst for the addition of trimethylsilyl cyanide to α -hetero-substituted ketones

M. Bandini, P. G. Cozzi, P. Melchiorre, A. Umani-Ronchi

Tetrahedron Lett. **2001**, *42*, 3041 – 3043

2. Synthesis and Binding Activity of Endomorphin-1 Analogues Containing β -Amino Acids

G. Cardillo, L. Gentilucci, P. Melchiorre, S. Spampinato

Bioorg. Med. Chem. Lett. **2000**, *10*, 2755 - 2758

1. The First Catalytic Enantioselective Nozaki-Hiyama Reaction

M. Bandini, P. G. Cozzi, P. Melchiorre, A. Umani-Ronchi

Angew. Chem. Int. Ed. **1999**, *38*, 3357-3359 - Selected as a **VIP Paper** [\[link\]](#)

BOOKS & CHAPTERS

1) G. Bartoli, P. Melchiorre

Chapter 2 “Michael Addition” in: *Catalytic Asymmetric Friedel-Crafts Alkylations*,

Eds. A. Umani-Ronchi, M. Bandini, Wiley-VCH, 2009, pp 49-67.

2) P. Melchiorre,

Chapter **1.1.8** “Iminium Catalysis of Enals and Enones with Primary Amines”

in ***Asymmetric Organocatalysis - Science of Synthesis Reference Library***,
Editor: Benjamin List, Thieme, **2012**, pp 403-438

3) René Tannert, Antonio Moran, and Paolo Melchiorre,
"Three or More Components Reactions (Single Catalyst Systems)"
in ***Comprehensive Enantioselective Organocatalysis, Volume 3***
Editor: Peter Dalko, Wiley-VCH, **2013**, pp 1285-1332

4) E. Arceo, P. Melchiorre,
Chapter **8.03** "Reduction of C=N to CHNH by Hydride Delivery from C"
In ***Comprehensive Organic Synthesis 2nd Edition***,
Editors: Gary A. Molander and Paul Knochel (eds.) - Elsevier, **2014**, pp 151-197

5) John J. Murphy, Mattia Silvi, and Paolo Melchiorre,
Chapter **17** "Enamine-mediated Catalysis"
In ***Lewis Base Catalysis in Organic Synthesis***,
Editors: E. Vedejs and S. Denmark - Wiley-VCH, **2016**

6) Yannick P. Rey, Hamish B. Hepburn, and Paolo Melchiorre,
Chapter **17** "Organocatalysis with Amines in Photocatalysis"
In ***Science of Synthesis: Photocatalysis in Organic Synthesis***
Editor: B. König, Thieme, **2018**

7) Catherine Holden, and Paolo Melchiorre,
"Photochemistry and excited-state reactivity of organocatalytic intermediates"
In "*Photochemistry: Volume 47*", Royal Society of Chemistry, **2019**, 344 - 378

Granted and filed patents

- 'Cinchona alkaloid derivatives, their process of preparation and their use as catalysts', EP2687527 (A1)
- 'Photoinitiator compounds' WO2020011922
- 'Carboxylic dithiocarbamic acid anhydride and compositions thereof', EP20382017.0

Lectures

Invited Presentations at Meetings and Symposia

93. Photochemistry School of the Spanish Association of Bioinorganic Chemistry (online), September 2020.
92. 2nd EurJOC Virtual Symposium (online), April 2020.
91. 1st Symposium on Synthetic Chemistry and Catalysis, NTU Singapore. January 2020
90. Barluenga Symposium, Oviedo (Spain), November 2019
89. 18th Blue Danube Symposium on Heterocyclic Chemistry, Ljubljana (Slovenia). September 2019
88. 5th Symposium on Asymmetric Synthesis, Warsaw (Poland). September 2019
87. Mechanistic Homogeneous Catalysis – A Meeting between Theory and Experiment, Stockholm (Sweden). September 2019
86. European Symposium of Organic Chemistry, ESOC, Vienna (Austria). July 2019
85. Workshop on Chemistry and Applications of Organic Chromophores, Cardiff (UK). July 2019
84. 39th European School of Medicinal Chemistry, Urbino (Italy). July 2019
83. 3rd Lima Scientific day, Mulhouse (France). June 2019
82. Bürgerstock Conference 2019 – Brunnen (Switzerland). May 2019
81. "Giorgio Modena" Award Symposium – Padova (Italy). May 2019
80. Radical Symposium – Fuzhou (China). April 2019
79. 2nd National Organic Radical Symposium – Shenzhen (China). April 2019
77. Spotlight on Photoredox Catalysis and Photochemistry, London (U.K.) February 2019
76. 1st CCNU International Photocatalysis Symposium. Wuhan (China). November 2018.
75. 17th BMOS Brazilian Meeting in Organic Chemistry. Salvador (Brazil). October 2018.
74. IASOC. Napoli (Italy). September 2018.

73. Conference on Photochemistry. Munich (Germany). September 2018.
72. 8th International Forum on Homogeneous Catalysis, Shanghai (China). September 2018
71. Balticum Organicum Syntheticum 2018. Tallinn (Estonia). July 2018
70. VII EWDSy: Seventh European Workshop in Drug Synthesis – Siena (Italy). May 2018
69. Sesión Científica en la Real Academia de Ciencias, Madrid (Spain). May 2018.
68. 2nd *Japanese-Spanish Symposium on Modern Synthetic Methodology* – Kyoto (Japan). May 2017
67. SINCHEM Winter School, Bologna (Italy). February 2018.
66. 1st Alpine Winter Conference on Medicinal and Synthetic Chemistry - St. Anton (Austria). January 2018.
65. Japanese National Symposium in Organocatalysis. Sendai (Japan). November 2017.
64. Photocatalysis in Organic Synthesis Meeting. Goteborg (Sweden). November 2017.
63. International Conference on Organic Chemistry. Guangzhou (China). November 2017
62. Bayer Workshop. Photoredox catalysis – the future is bright. Dusseldorf (Germany). November 2017.
61. Beilstein Organic Chemistry Symposium 2017 on “Tomorrow's Catalysis for Research and Industry”. Postdam (Germany). October 2017
60. Le Giornate di Chimica Organica a Pavia – Pavia (Italy). October 2017
59. GECO 58 (Groupe d'étude de Chimie Organique) – Dinard (France). August 2017
58. 36th Biannual Meeting of the Spanish Royal Chemical Society – Sitges (Spain). June 2017
57. 18th Netherlands' Catalysis and Chemistry Conference – Noordwijkerhout (Netherlands). March 2017
56. *Japanese-Spanish Symposium on Modern Synthetic Methodology* – Gijon (Spain). April 2017
55. Chemical Photocatalysis Seminar – Regensburg (Germany). March 2017
54. Photocatalysis-Afternoon-Symposium – Munster (Germany). January 2017
53. Athens International Catalysis Symposium - Athens (Greece). November 2016
52. 12th International Symposium on Organic Free Radicals, ISOFR 12 - Shanghai (China). October 2016
51. 6^a Jornadas Red CASI, Palma de Mallorca (Spain). October 2016
50. JCO 2016: Journées de Chimie Organique – Paris (France). September 2016
49. III US-Spain Symposium in Asymmetric Chemical Synthesis and Catalysis – Bilbao (Spain). May 2016
48. VI EWDSy: Sixth European Workshop in Drug Synthesis – Siena (Italy). May 2016
47. ANORCQ 13: Anglo-Norman Organic Chemistry Colloquium – Rouen (France). April 2016
46. DOMINOCAT 1 SYMPOSIUM – Aachen (Germany). September 2015
45. International Conference Synthesis and Catalysis – Evora (Portugal). September 2015
44. 39th Naito Conference "The chemistry of organocatalysts" - Sapporo (Japan). July 2015
43. pre-OMCOS mini-Symposium – ICIQ - Tarragona (Spain). June 2015
42. Bilateral Symposium Technion-ICIQ – Tarragona (Spain). February 2015
41. XIV Sigma-Aldrich Young Chemists Symposium (SAYCS 2014) – Riccione (Italy). October 2014
40. 2nd Young Mediterranean Research Workshop 2014 - Marseille (France). October 2012
39. 5^a Jornadas Red CASI, Palma de Mallorca (Spain). October 2014
38. Ramón Areces Scientific Symposium "Chemistry: answers for a better world" – Madrid. Oct 2014
37. 4th Brazil-Spain Workshop – San Sebastián (Spain). July 2014
36. 49th Bürgesntock Conference on Stereochemistry, Brunnen (*moderator*) – May 2014
35. Asymmetric Organocatalysis; Challenges and Innovations, Oxford (UK) - April 2014
34. Congress of the Chemical Society of Japan, Nagoya (Japan) - JSPS Fellowship – March 2014
33. ZING Asymmetric Synthesis Conference, Malaga (Spain). February 2014
32. ORCA meeting, Alicante (Spain). October 2013
31. ORCA training school, Alicante (Spain). October 2013
30. ICIQ-UniCat Summer School, Tarragona (Spain). July 2013
29. XXXVIII “A. CORBELLA” SUMMER SCHOOL, Gargnano (Italy). June 2013
28. II Workshop UFI-QOSYC, Bilbao (Spain). April 2013
27. 4^a Jornadas Red CASI, Palma de Mallorca (Spain). October 2012
26. IASOC 2012 – Ischia Advanced School of Organic Chemistry (Italy). September 2012

25. OXFORD – ICIQ BILATERAL MEETING, Oxford (UK). September 2012
24. "Catalysis in Organic Synthesis" (ICCOS-2012), Moscow (Russia). September 2012
23. 30th meeting of Slovak and Czech organic chemist, Smolenice (Slovakia). September 2012
22. IUPAC Conference on Green Chemistry (4th ICGC), Foz de Iguazu (Brazil). August 2012
21. 24 Reunión Bienal del Grupo de Química Orgánica, San Sebastian (Spain). July 2012
20. 15th ICC 2012, Munich (Germany). July 2012
19. COST action, ORCA meeting, Marseille (France). March 2012
18. NEW PERSPECTIVES IN ASYMMETRIC SYNTHESIS 2nd edition – Valencia (Spain). Dec 2011
17. NANO-HOST School, University of Zaragoza (Spain). November 2011
16. INTECAT Meeting, Huelva (Spain). October 2011
15. ESOC 2011, Crete (Greece). July 2011
14. ESMEC 2011, Urbino (Italy). June 2011
13. CATAFLU.OR Meeting, Bologna (Italy). February 2011
12. XIV NOST – Organic Chemistry Conference, Goa (India). December 2010
11. INTECAT meeting, ICIQ, Tarragona (Spain). November 2010
10. ESF-COST High-Level Research Conference, Maratea (Italy). September 2010
9. Scuola GIC, Palermo (Italy). September 2010
8. ISO μ 2010, Max Planck Institute, Mülheim (Germany). July 2010
7. BOSS XII, Namur (Belgium). July 2010
6. 2^o Microsymposium on Asymmetric Synthesis, Warsaw (Poland). September 2009
5. 1st EUCHEM Organic Division Young Investigator's Workshop, Liblice (Czech Republic). July 2009
4. XXXIV "A. CORBELLA" SUMMER SCHOOL, Gargnano (Italy). June 2009
3. VIII Laboratorio di Metodologie Sintetiche in Chimica Farmaceutica, Siena (Italy). February 2009
2. IASOC 2008 – Ischia Advanced School of Organic Chemistry (Italy). September 2008
1. SISOC 07: 7th Spanish-Italian Symposium – Oviedo (Spain). September 2008

Invited Lectures

93. University of Ottawa, Ottawa (Canada), December 2019
92. Mc Gill University, Montréal (Canada), December 2019
91. University of Montréal (Canada), December 2019
90. University of Barcelona, (Spain), December 2019
89. Soochow University, Shanghai (China), November 2019
88. Autonomous University of Barcelona (UAB, Spain), October 2019
87. Syngenta, Jealotts Hill (UK), September 2019
86. Aptuit, Verona (Italy), May 2019
85. Dr. Paul Janssen Lecture Series, Jansen - Beerse (Belgium), May 2019
84. East China Normal University, Shanghai (China), April 2019
83. Hong Kong University of Science and Technology, Hong Kong (China), April 2019
82. Sygnaturediscovery, Nottingham (UK). February 2019
81. University of Bordeaux (France). December 2018
80. UCB Biofarma, Brussels (Belgium) November 2018
79. Sanofi-Aventis Frankfurt, Germany. October 2018.
78. University of Naples, Federico II (Italy). September 2018.
77. Firmenich, Geneva (Switzerland). June 2018
76. Autonomous University of Madrid - UAM (Spain). June 2018.
75. Merck Chemistry Lecture (US). April 2018
74. University of Princeton (US). April 2018
73. University of Philadelphia (US). April 2018

72. University of Lausanne (Switzerland). April 2018
71. University of Nagoya (Japan). February 2018
70. University of Tokyo (Japan). November 2017
69. University of Honk Kong (China). November 2017
68. University of Cambridge (UK). October 2017
67. Syngenta Chemistry lecture 2017 - Stein (Switzerland). October 2017
66. University of Groningen (Holland). October 2017
65. University of Budapest - Budapest (Hungary). September 2017
64. University of Strasbourg, Strasbourg (France). March 2017
63. University of Basel, Basel (Switzerland). March 2017
62. Nanyang Technological University, Singapore. February 2017
61. ICFO - The Institute of Photonic Sciences, Barcelona (Spain). May 2016
60. Leipzig University (Germany). December 2015
59. Manchester University (UK). December 2015
58. University Claude Bernard Lyon 1 – Lyon (France). June 2015
57. Ocean University – Qiangdao (China). May 2015
56. East China Normal University – Shanghai (China). May 2015
55. Hangzhou University – Hangzhou (China). May 2015
54. Central China Normal University – Wuhan (China). May 2015
53. Sichuan University, Wangjiang Campus – Chengdu (China). May 2015
52. Sichuan University, Huaxi Campus – Chengdu (China). May 2015
51. University of Vienna – Vienna (Austria). May 2015
50. Nottingham University – Nottingham (UK). April 2015
49. Universidad del País Vasco – San Sebastian (Spain). December 2014
48. Erdtman Lecture 2014 – Stockholm (Sweden). October 2014
47. Aarhus University, Denmark – July 2014
46. Università di Bologna, Italy – June 2014
45. Chimie ParisTech, Paris (France) - May 2014
44. Pierre and Marie Curie University, Paris (France) - May 2014
43. Dr Reddy's Laboratories Ltd, Oxford (UK) - April 2014
42. Nagoya University, Nagoya (Japan) - JSPS Fellowship – March 2014
41. Sumitomo Chemical Company, Osakashi (Japan) - JSPS Fellowship – March 2014
40. Osaka University, Osaka (Japan) - JSPS Fellowship – March 2014
39. Kyoto University, Faculty of Science, Kyoto (Japan) - JSPS Fellowship – March 2014
38. Kyoto University, Faculty of Engineering, Kyoto (Japan) - JSPS Fellowship – March 2014
37. Tokyo University of Science, Tokyo (Japan) - JSPS Fellowship – March 2014
36. Tokyo University of Agriculture, Tokyo (Japan) - JSPS Fellowship – March 2014
35. Gakushuin University, Tokyo (Japan) - JSPS Fellowship – March 2014
34. Tohoku University, Senday (Japan) - JSPS Fellowship – March 2014
33. Universität Marburg (Germany). January 2014
32. University of Graz, Graz (Austria). January 2014
31. University of Caen, Caen (France). November 2013
30. University of Geneva, Geneva (Switzerland). November 2013
29. Universidad de Sevilla (Spain). October 2013
28. Università La Sapienza, Roma (Italia). May 2013
27. Universität Münster (Germany). May 2013
26. EPFL, Lausanne (Switzerland). March 2013
25. University of Namur (FUNDP), Namur (Belgium). November 2012
24. Universidade Federal de São Carlos, (Brazil). August 2012

23. Ludwig Maximilians Universität (LMU), Munich (Germany). July 2012
22. Suzhou University, Suzhou (China). May 2012
21. Fudan University, Shanghai (China). May 2012
20. Shanghai Institute of Organic Chemistry (SIOC), Shanghai (China). May 2012
19. East China Normal University, Shanghai (China). May 2012
18. West China School of Pharmacy, Sichuan University, Chengdu (China). May 2012
17. Peking University, Beijing (China). May 2012
16. CSIC, Madrid (Spain). February 2012
15. Universidad Autónoma de Madrid (Spain). February 2012
14. Università Ca' Foscari, Venezia (Italy). November 2011
13. Universidad de Barcelona; Barcelona (Spain). October 2011
12. The Scripps Research Institute, La Jolla (US). August 2011
11. Instituto Universitario Química Organometálica "Enrique Moles"; Oviedo (Spain). May 2011
10. The Institute of Chemical Research of Catalonia (ICIQ), Tarragona (Spain). March 2009
8. Liebig lectureship: Universität Frankfurt an Main (Germany). November 2008
7. Liebig lectureship: Max Planck Institute, Mülheim (Germany). November 2008
6. Liebig lectureship: Universität Regensburg (Germany). November 2008
5. Liebig lectureship: Universität zu Köln (Germany). November 2008
4. Liebig lectureship: Universität Münster (Germany). November 2008
3. Liebig lectureship: Erlangen-Nürnberg Universität (Germany). November 2008
2. Liebig lectureship: Technische Universität München (Germany). November 2008
1. OC-Colloquium – Aachen University (Germany). April 2008

PM as a Member of Ph. D. Committees

- 2011** Esther Alza Barrios (ICIQ-Universitat Rovira i Virgili) - supervisor Prof. M. Pericas
- 2012** Andrea Nekane Roig Alba (Universidad de Barcelona) - supervisor Prof. A. Moyano
- 2013** Rafael Cano Monserrat (Universidad de Alicante, Spain) - supervisor Prof. F. Alonso
- 2013** Valentina Corvaglia (Università Di Trieste, Italy) - supervisor Prof. D. Bonifazi
- 2013** Ángel Martínez Castañeda (Universidad de Oviedo, Spain) - supervisor Dr. H. Solla
- 2013** Miriam Diaz de los Bernardos (ICIQ-Universitat Rovira i Virgili) - supervisor Prof. S. Castillon/Prof. P. W. N. M van Leeuwen
- 2013** Ana María Cespo Peña (Universidad de Sevilla, Spain) - supervisor Prof. R. Fernández/Prof. J. M. Lassaletta
- 2014** Lars Krogager Ransborg (Aarhus University, Denmark) - supervisor Prof. Karl A. Jørgensen
- 2017** Laura Fra (ICIQ-Universitat Rovira i Virgili) – supervisor Prof. Kilian Muñiz
- 2018** Saad Shaaban (University of Vienna, Austria) - supervisor Prof. Nuno Maulide
- 2018** Daniele Perrotta (EPFL Lausanne, Switzerland) - supervisor Prof. Jerome Waser
- 2018** Vincent Pirenne (University of Bordeaux, France) – supervisor Prof. Yannick Landais
- 2019** Cristina García Morales (ICIQ-Universitat Rovira i Virgili) – supervisor Prof. Antonio M. Echavarren
- 2019** Alexandra Bosnidou (ICIQ- Universitat Rovira i Virgili) – supervisor Prof. Kilian Muñiz
- 2020** Thomas Rigotti (Universidad Autónoma de Madrid, Spain) – supervisor Prof. José Aleman
- 2020** Runze Mao (EPFL Lausanne, Switzerland) – supervisor Prof. Xile Hu

Teaching Activities

- 2007-2009** - Faculty of Industrial Chemistry - University of Bologna (Italy)
Course on "Organic Materials". Credits given: 5
- 2013-2017** - University Rovira i Virgili (URV) - Tarragona (Spain)
"Stereoselective and Asymmetric Synthesis"; Master in Synthesis and Catalysis; Credits given: 3