

## CURRICULUM VITAE: Giulia Licini

Prof. Giulia Licini  
Professor of Organic Chemistry  
Department of Chemical Sciences, University of Padova  
Via Marzolo, 1  
35131, Padova, Italy

### *Date/Place of Birth*

29/04/1960, Padova (Italy)

### *Education and Qualifications*

1979-1984 Laurea in Chemistry, University of Padova (Italy)  
1985-1986 Research Chemist; Istituto Guido Donegani, Novara, Italy  
1986-1988 Ph.D. in Chemical Science, University of Padova (Italy)  
1988-1989 Post-doctoral Research Fellow at Colorado State University, Fort Collins, CO, USA, (Albert I. Meyers' group)  
1989-1990 Research Associate, National Research Council, Padova (Italy)  
1990-2000 Research Associate, University of Padova (Italy)  
2000-2011 Associate Professor in Organic Chemistry, University of Padova (Italy)  
May 2007 Visiting Professor Università Louis Pasteur, Laboratoire de Chimie Organométallique et de Catalyse, Institut LeBel, Strasburgo, France.  
2011-present Full Professor in Organic Chemistry, Department of Chemical Sciences, University of Padova (Italy)

### *Distinctions*

"A. Mion" prize, Faculty of Science, University of Padova (1996).

### *Major Research Interests*

- Design and synthesis of new polydentate chiral ligands and receptors
- Synthesis and structural characterization, reactivity and mechanistic study of metal catalysts bearing chiral polydentate ligands.
- Synthesis and use of alpha,alpha-disubstituted amino acids in stereoselective synthesis
- Design and synthesis of hybrid organic/inorganic materials for catalysis and molecular recognition

Giulia Licini started her scientific activity at the University of Padova with Giorgio Modena and Ottorino De Lucchi working on cycloaddition reaction of vinyl bis-sulfones. . In 1985 she worked at the Istituto Donegani, Novara on fluorinated polymers. From 1986 to 1988 she carried her PhD at the University of Padova, Doctoral School in Chemical Sciences, working in Giorgio Modena group on stereoselective sulfoxidation catalysed by Ti(IV) chiral complexes. After she spent one year at the Colorado State university in Albert I. Meyer group working on tandem addition on naphthyl oxazolines. In 1990 she was appointed as CNR research c/o Department of Organic Chemistry, University of Padova for 8 months. Then she became research associate (ricercatore) in organic chemistry at the Department of Organic Chemistry, University of Padova. In the same University in 2000 she became assistant professor and since 2011 she is full professor of organic chemistry. Her main research interests focus on homogeneous catalysis, in particular oxidation processes (oxygen and electron transfer processes), development of new ligands and new catalysts and study of reaction mechanism, synthesis of functional hybrid organic/inorganic materials for catalysis and molecular recognition.

*Activities.* Co-Chair: STEREOCAT 2004, Venice, Italy, (2004); Co-Chair: 10th International Symposium on the Activation of Dioxygen and Homogeneous Catalytic Oxidation (ADHOC-2008), Venice (2008); Chair: European-Winter School on Physical Organic Chemistry (E-WiSPOC 2011, E-WiSPOC 2012, E-WiSPOC

2013, E-WiSPOC 2014)), Bressanone, Italy (2011, 2012, 2013, 2014); Co-Chair: 10<sup>a</sup> CoGiCO, Italian Chemical Society, Padova, Italy (2012).

*International and national funded projects:*

- a. Aid to Education 1998, DuPont Italia PI.
- b. EVC Italia (2000) PI
- c. University of Padova, starting grant on multidentate ligand synthesis (2000-2002).
- d. RTN *Asymmetric Catalysis Using Three-Fold Symmetry* (2002-2006) Local PI
- e. University of Padova, Post-doc grants (2007-2009; 2009-2011; 2011-2013)
- f. EVC UK (2007-2010) PI
- g. Fondazione Cassa di Risparmio di Padova e Rovigo, PhD fellowship (2010-2012) PI
- h. Regione Veneto, FSE Projects 2007-2013 DGR 1268/08 (2009-2010) PI.
- i. Ministry of University and Research, PRIN 2008 (2008-2010) Local PI
- j. CARIPARO Foundation, Progetti di Eccellenza 2009/2010 local PI (2011-14).
- k. University of Padova, grant catalytic processes for biomass transformation (2013-2014) PI
- l. Ministry of University and Research, PRIN 2010-11 (2013-2015) local PI.

*COST Actions:*

- Action D12 (D12/0018/98) "Highly Symmetric Chiral Polydentate Ligands in Asymmetric Catalysis (1999-2002) WG coordinator
- Action D24 (D24/0005/02) "Nitrogen-Based Chiral Ligands in Asymmetric Catalysis" (2002-2006) WG Coordinator
- Action D40 "Innovative Catalysis: New Processes and Selectivities (2007-2112)
- Action CM 1003 Biological oxidation reactions - mechanisms and design of new catalysts (2011-2015)
- Action CM1005 Supramolecular Chemistry in Water (2011-2015) STSM manager
- Action CM1205 Catalytic Routines for Small Molecule Activation (CARISMA) (2013-2017) Vice-Chair

*Consultancy activity.*

EVC-UK (2001-2006) Ineos Technologies, Marghera, Venice (IT) (2007-2011); Fidia SpA, Abano, PD, Italy (2006- ); Newchem, Verona, Italy (2007-2012); Corichem, Arzignano, VI, Italy (2010).

*Conferences*

1. Eindhoven University of Technology, NL 1999 (host D. Vogt)
2. ETH, Zurich, CH 2000 (host A. Mezzetti)
3. University of Zurich, CH 2003, (host S. Bienz)
4. Geneva University, CH 2005 (host P.E. Kundig)
5. Università di Trieste, Italy 2007 (host B. Milani).
6. Institut LeBel, Louis Pasteur University, Strasbourg, F 2007 (host S. Bellemin).
7. Heidelberg University, D, 2007 (host L. Gade)
8. Javaskyla University, FI, 2009 (host K. Rissanen)
9. Bologna, Italy, 2012 (host M. Bandini)
10. ICIQ, Tarragona 2013 (host A. Kleij)
11. Bari, Italy 2013 (host G. Farinola)
12. Firenze, Italy 2013 (host S. Menichetti)

*Invited lectures:*

1. XVIII Summer School "A. Corbella", 1993, Gargnano BS.
2. Giornata Scientifica in ricordo del Professor Giuseppe Bellucci, 1996, Pisa.
3. XXII Summer School "A. Corbella", 1997, Gargnano, BS 1997
4. Fifth International Conference on Heteroatom Chemistry, London, Ontario Canada, 1998
5. 20° National Conference of the Italian Chemical Society, Rimini, IT, 2000
6. COFEM 2001, Ponte di Legno, BS, IT, 2001.
7. Stereocat'2001, Villeneuve d'Ascq, F, 2001

8. 4<sup>th</sup> Italian-Spanish Symposium on Organic Chemistry Perugia- IT, 2002
9. Final COST-D12 Workshop, Arcachon F, 2002
10. Stereocat 2003, Villa Mondragone, Monte Porzio Catone (Roma), IT 2003
11. Stereocat 2004, Venice, Italy, September 16-19, 2004
12. STEREOCAT 2005, Barcelona (Spain), 2005.
13. Stereocat 2006, Lisbon, P, September 22-24, 2006.
14. First International School on Applied Catalysis and IX Italian Seminar on Catalysis 2007, Giovinazzo, BA, IT 2007
15. XVII EuCheMS Conference on Organometallic Chemistry (COMC 17), Sofia, Bulgaria 2007
16. Innovation III, Turkey, Finland, 2009
17. E-WiSPOC 2009, Bressanone, Italy, 2009
18. International School of Organometallic Chemistry, 7<sup>th</sup> Edition, , Camerino, Italy. 2009.
19. COFEM 2010, Roma, IT 2010
20. 1<sup>st</sup> Italy-China Symposium on Organic Chemistry, Shanghai, 2010
21. Innovation IV, Ankara, Turkey, 2010
22. 7<sup>th</sup> International Vanadium Symposium, Toyama, Japan, 2010
23. Coordination Chemistry, Zing Conference, Cancun, Mexico 2011
24. XXIV Conference of the Italian Chemical Society, Lecce, IT 2011
25. International Symposium on Activation of Dioxygen & Homogeneous Catalytic Oxidation Jerusalem, Israel, 2012.

#### *Collaborations*

A. Dalla Cort (Roma, IT), M. Bonchio (Padova, IT); K. Rissanen (Javaskyla), V. Conte (Roma Tor Vergata, Rome, IT); B. Escuder (Castillon, ES); K. Bartik (ULB, Brussels, B); A. Kleij, (ICIQ Tarragona, SP); B. Bibal (Bordeaux, F.)