

Curriculum Vitae Claudio Pettinari

Informazioni personali

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Posizione attuale

Rettore dell'Università degli Studi di Camerino dal 01.11.2017

Prorettore Vicario dal 2011 al 2017 con delega all'internazionalizzazione

Professore ordinario di Chimica Generale ed Inorganica (**Scuola del Farmaco e dei Prodotti della Salute**), Università degli Studi di Camerino (MC).

Formazione, Scuole Estive, Visiting professor.

- 1) **Diplomato al Liceo** G. Varano di Camerino (1983).
- 2) Laurea quinquennale in **Chimica**, Febbraio **1989**, **110/110 "cum laude"** all'Università di Camerino con la tesi Copper(I) adducts of poly(pyrazolyl)alkanes relatore: Prof. Flavio Bonati).
- 3) **Contratto di Ricerca** con l'Università di Camerino dal 7 giugno al 30 novembre **1989**.
- 4) Partecipazione alla **Scuola di Spettroscopia NMR** in Chimica Inorganica a Santa Vittoria d'Alba (Giugno-Luglio 1990).
- 5) **Periodo di formazione all'Istituto CNR di "Strutturistica Chimica"** a Montelibretti Roma da giugno a luglio 1994 per l'apprendimento di tecniche di analisi mediante diffrazione di raggi X su cristallo singolo sotto la supervisione del Dr. Francesco Caruso.
- 6) **Periodo di formazione presso l'Università di Saragozza (sotto la supervisione del Prof. Luis Oro)** Agosto-settembre 1999, Agosto-settembre 2001, nell'ambito del programma Azione Integrata Italai Spagna Camerino-Saragozza).
- 7) **Visiting Professor:** i) Programma Socrates-Erasmus-Tempus, Università di Galati-Romania –M. Rodica Dinica, Novembre 1999; ii) TS Socrates Erasmus, University of Sevilla - Ernesto Carmona-, maggio 2002); iii) TS Socrates-Erasmus, University of Strasbourg – Pierre Braunstein, Giugno-Luglio 2005; iv) TS Socrates-Erasmus, University di Tolosa, Novembre 2007; v) TS Socrates-Erasmus, Instituto Superior Tecnico, Lisbona, settembre 2008; vi) Azione Integrata Project, University of Sevilla, Aprile 2009; vii) ERASMUS, 2011, University of Granada; viii) University of Delaware and South-Carolina aprile 2011. viii) TS Socrates-Erasmus, University of Paris VI – Giovanni Poli, Maggio 2012; ix) TS Socrates-Erasmus, University of Barcellona – Patrick Gamez, Maggio 2013; x) TS Socrates-Erasmus, University of Strasbourg – Pierre Braunstein, Giugno - luglio 2015.
- 8) **Membro dell' Advisory Board of Centro de Quimica Estrutural** (Istituto Superior Tecnico, Univ. de Lisbona).
- 9) **Membro dell' Advisory Board per la valutazione degli istituti chimici del CNR (2014-2015)**
- 10) **Delegato del Rettore per le Relazioni Internazionali dal gennaio 2008 a novembre 2011.**
- 11) **Membro della Missione Italiana (Technological Transfer TRIP) presso le Università e i centri di ricerca di Denver, Cleveland e Pittsburgh organizzata dall'ambasciata US in Italia (Nov 2009).**
- 12) **Delegato del Rettore dell'Univ. di Camerino per il Coordinamento delle Attività di Internazionalizzazione** da Dec, 2005 a Nov, 2007
- 13) **Referente del Rettore per l'Internazionalizzazione dell'Università di Camerino da Gennaio 2008 a Novembre 2011.**
- 14) **Responsabile del Corso di Laurea in Farmacia** (Cl. 14S) da ottobre 2002 a ottobre 2004 and da Nov 2009 a Nov 2011.
- 15) **Responsabile/Referente per il corso di Laurea in Informazione Scientifica sul Farmaco** (Cl. 24) da Nov. 2004 a Ott. 2009.
- 16) **Membro del CIPISF** (Conferenza Italiana dei Presidenti dei Corsi di Laurea in Informazione Scientifica sul Farmaco) dal 1 Nov 2004 al 31 Ott. 2009.
- 17) **Presidente CIPISF** Conferenza Italiana dei Presidenti dei Corsi di Laurea in Informazione Scientifica sul Farmaco) Giugno 2007-Ottobre 2009
- 18) **Membro del G.I.C.O** (Gruppo Interdivisionale di Chimica Organometallica) da Gen 2004 a Dec 2009.
- 19) **Membro del Consiglio della Divisione di Chimica Inorganica** (DCI) da Gen 2009 a Dic 2014.

- 20) **Direttore della Scuola Internazionale di Chimica Organometallica (ISOC series)** nel 2007, 2009, 2011, 2013 e 2015.
- 21) **Membro del Consiglio di amministrazione dell' UNIFABRIANO dal 2012 al 2014.**
- 22) **Membro del Consiglio scientifico dell' UNIADRION (consorzio delle Università del Mare Adriatico).**
- 23) **Direttore dell'URT ICCOM CNR istituita presso l'Università di Camerino da settembre 2014.**
- 24) **Membro del Comitato Marchigiani nel mondo dal 2010 al 2014**
- 25) **Membro della commissione Cooperazione della Regione Marche dal 2010 al 2014**

Attività di ricerca

Premi

Claudio Pettinari è risultato vincitore del premio **Bonati** nel 1998 come giovane ricercatore al di sotto di 35 nel settore della Chimica Organometallica, vincitore della medaglia **Nasini** nel 2004 come miglior ricercatore attivo in Chimica Inorganica al di sotto di 40 anni. Entrambi sono premi SCI. **Doctor Honoris Causa in Chimica dall'Università di Galati** nel settembre 2012. **Camerte dell'Anno 2013** (premio della città di Camerino). **Membro eletto dell'Accademia di Scienze di Lisbona.**

Research description

Claudio Pettinari è autore e coautore di 335 lavori (Google Scholar h index = 37, 6482 citazioni), Web of Science h index = 35, 5316 citazioni, SCOPUS h index = 37) su giornali internazionali peer review, di cui 15 review su invite su giornali di alto livello e più di 200 comunicazioni a congress nazionali ed internazionali. E' anche autore di tre libri, 4 brevetti nazionali e 3 internazionali.

L'attività di ricerca è stata principalmente condotta nel settore della chimica di coordinazione degli eterocicli N-, O e S- donatori e leganti ancillari come fosfine e difosfine nei confronti dei gruppi principali, dei metalli di transizione e terre rare e nel settore della chimica organometallica di Sn, Rh, Ir, Pd e Ru. Nell'ultimo periodo molta attenzione è stata rivolta alla preparazione di nuovi materiali polifunzionali e MOFs utilizzando unità di costruzione secondary derivate da specie molecolari precedentemente sviluppate come sintoni rame-triazolato e rame-pirazolato sviluppati precedentemente.

Nello specifico i temi attualmente sviluppati sono

- 1) Progettazione e sintesi di scorpionati e loro derivati metallici (Cu, Ag, Au, Zn, Cd, Rh, Ir, Fe, Hg, Sn) possibili modelli biologici e nuovi catalizzatori.
- 2) Progettazione e sintesi di beta-dichetoni e pirazoloni e loro derivati metallici (Cu, Ag, Zn, Cd, Ca, Sr, Ba, Ln, Rh, Sn e Ti) possibili modelli e precursori per nuovi materiali.
- 3) Progettazione e sintesi di nuovi eterocicli polidentati per la sintesi di composti multimetallici.
- 4) Progettazione e sintesi di polimeri di coordinazione con leganti azotati polifunzionali.
- 5) Progettazione e sintesi di composti mono e poli-nucleari organostannici antimicrobici o con attività farmacologica.
- 6) Studio della reattività di leganti azotati nei confronti di carbossilati di metalli di transizione e formazione di cluster polinucleari.
- 7) Progettazione e sintesi di nuovi leganti ibridi, emilabili, sistemi pincers contenenti gruppi SO₃ o specie idrosolubili e loro complessi con metalli di transizione.
- 8) Progettazione, sintesi e caratterizzazione di nuovi materiali polimerici porosi polifunzionali.
- 9) Polimeri biodegradabili e biocompatibili.

Risorse finanziarie e progetti Coordinati

Claudio Pettinari è stato ed è attualmente il coordinatore scientifico di una elevato numero di progetti di ricerca e mobilità. I più più importanti sono riportati in dettaglio

1. **Coordinatore scientifico del progetto di ricerca Europeo "INTAS CALL 2000"** (INTAS-00-469): **New mono and heterometallic azolates as new materials and new material sources** (scientific cooperation between Universities of Camerino, Saragozza, Mosca e

- Novosibirsk-registrazione n. 326). Coordinatore Scientifico anche dell'Unità di Ricerca istituita presso l'Univ. di Camerino.
2. **Coordinatore scientifico di un progetto di ricerca MIUR di Cooperazione Scientifica Cooperation** tra Università Italiane e Straniere (COOPERLINK 2000) con la Federazione Russa (University of Camerino-University Lomonossov of Mosca) (a.a. 2000: **Synthesis and Spectroscopic Characterization of new Rh complexes containing N- and/or O-donor ligands as potential catalysts toward hydroformylation and hydrogenation reactions**).
 3. **Coordinatore scientifico di un progetto di ricerca MIUR di Cooperazione Scientifica Cooperation** tra Università Italiane e Straniere (COOPERLINK 2001) con la Federazione Russa (University of Camerino-University Lomonossov of Mosca) (a.a. 2001: **Synthesis and Spectroscopic Characterization of new Rh complexes containing N- and/or O-donor ligands as potential catalysts toward hydroformylation and hydrogenation reactions**).
 4. **Coordinatore scientifico** di un progetto di ricerca finanziato dalla **Fondazione CARIMA** (Cassa di Risparmio della Provincia di Macerata) (2001): **Synthesis of new derivatives of TiO₂ as precursors in osteointegration of dental implants through MOCVD technique**.
 5. **Coordinatore Nazionale e coordinatore scientifico locale per un progetto PRIN 06: Polyfunctional Metal-Organic Hybrid Materials based on Polyazotate Ligands** (2006038447)
 6. **Coordinatore scientifico dell'Unità locale di Camerino nel progetto PRIN 2010: BNZ3F2 DESCARTES MIUR** coordinato dal prof. Maurizio Casarin (Univ. di Padova)
 7. **Coordinatore scientifico di un progetto di Cooperazione** tra Università Italiane e straniere (ASSCIR 06) con la Federazione Russa (University of Camerino-University Lomonossov of Mosca) (a.a. 2006: **Synthesis and Spectroscopic Characterization of new Rh complexes containing N- and/or O-donor ligands as potential catalysts toward hydroformylation and hydrogenation reactions**).
 8. **Coordinatore scientifico di tre progetti finanziati dall'azienda Dipharma Francis** (2005-2007):
 - a. **New metal catalysts of hydration reactions of double and triple bonds.**
 - b. **Original synthesis of pharmaceutically active compounds-I.**
 - c. **Original synthesis of pharmaceutically active compounds-II.**
 9. **Coordinatore scientifico di un progetto di Cooperazione** tra Università Italiane e straniere (ASSCIR 07) con la Federazione Russa (University of Camerino-University Lomonossov of Mosca) (a.a. 2007: **Synthesis and Spectroscopic Characterization of new Rh complexes containing N- and/or O-donor ligands as potential catalysts toward hydroformylation and hydrogenation reactions**).
 10. **Coordinatore di 2 progetti Giovani Ricercatori Indiani** (finanziato dal MIUR nel 2007 e nel 2008): Nanoscienza e Nanotecnologia, con supervisione di 4 PhD indiani.
 11. **Coordinatore Scientifico di un progetto Azione Integrata Italia-Spagna** (2007): **New polyfunctional porous metal-organic coordination polymers containing N-donor heterocyclic ligands and carboxylate counter-ions.**
 12. **Coordinatore Scientifico di un progetto MIUR di Cooperazione Internazionale** (MIUR-2007) (UNICAM, Univs of Lomonosov e Galati): **Advanced Qualification and training of young researchers in the Chemistry of Polyfunctional innovative materials and of New sources for Energy and Environment.**
 13. **Coordinatore scientifico di un progetto di Cooperazione** tra Università Italiane e straniere (ASSCIR 08) con la Federazione Russa (University of Camerino-University Lomonossov of

- Mosca) (a.a. 2008: **Formation of young researchers in the field of synthesis of new gold coordination compounds as anticancer drugs and new coordination polymers**).
14. **Coordinatore** di due progetti **IP ERASMUS LLP** (2008-2009) (ACAOC 2009 e 2010): Advanced Catalysis and Organometallic Chemistry. Network formed by 9 University- Sevilla, Grenada, Lisbona, Wroclaw, Galati, Tolosa, Aberdeen, Ioannina, Camerino.
 15. **Coordinatore** di due progetti **IP ERASMUS LLP** (2011-2012) (EUCHEME 2012 e 2013): European Chemists for Energy, Material and Environment. Network formed by 10 University- Sevilla, Grenada, Lisbona, Wroclaw, Galati, Tolosa, Aberdeen, Pau, Camerino, Frankfurt.
 16. **Coordinatore Scientifico del progetto “GIOVANI-TECNOLOGI” Regione Marche (2008)**: Design and synthesis of a family of new thermoplastic polyurethane materials with new biodegradation and biocompatibility features coupled to conventional properties, for biomedical applications.
 17. **Rappresentante e Membro per l'Italia nel management committee dell'azione COST CM1302: European Network on Smart Inorganic Polymers (SIPs)**
 18. **Coordinatore Scientifico del progetto “POR MARCHE FESR 2007- 2013 - INTERVENTO 1.1.1.04.02 "PROMOZIONE DELLA RICERCA INDUSTRIALE E DELLO SVILUPPO SPERIMENTALE IN FILIERE TECNOLOGICO-PRODUTTIVE” Regione Marche (2012)**: Development of new materials for New Generation Hood.

Inoltre Claudio Pettinari ha partecipato a diversi progetti coordinati da altri ricercatori, di cui qui sono riportati i principali.

- a) Fondazione CARIMA project (1999): Synthesis of New Sn, Pt, and Au derivatives with anticancer activity. Coordinatore Scientifico prof. Augusto Cingolani;
- b) Fondazione CARIMA project (2003): Synthesis of New Sn, Pt, and Au derivatives with anticancer activity. Coordinatore Scientifico prof. Augusto Cingolani;
- c) Fondazione CARIMA project (2005): Synthesis of New Sn, Pt, and Au derivatives with anticancer activity. Coordinatore Scientifico prof. Augusto Cingolani;
- d) Azione Integrata Italia-Spagna (Camerino-Saragozza, 1999-2000): Coordinatore Scientifico prof. Augusto Cingolani.
- e) PRIN 2000 (MM3027791_001): Selective synthesis of organic carbamate, carbonate and carboxylate derivatives through sequential activation of carbon dioxide and other substrates. Coordinatore Scientifico. Prof. Michele Aresta.

Brevetti

- a) PETTINARI C, CARUSO F., CINGOLANI A. (1999). Procedure for preparing polynuclear derivatives of Ti(IV) with 4-acyl-5-pyrazolonate ligands for antitumor application. IT 99RM0633, 50%
- b) CARUSO F., PETTINARI C (2002). Preparation of gold compounds simultaneously coordinated by mono- and bidentate phosphines having antitumor activity. WO 2003008427, 50%
- c) Brevetto Italiano RM 2013A000382, depositato il 28 06 2013 dal titolo: Complessi Acilpirazolonici di Argento(I) incorporati in polietilene ad alta densità o in cloruro di polivinile con potente attività antibatterica.
- d) Brevetto Italiano MI2013A0001359, depositato il 07 08 2013 dal titolo: Complessi di Rutenio con attività Chemioterapica antitumorale.

Attività editoriale

Claudio Pettinari è

- a) Membro dell' Editorial Board of **Organometallics** (ACS) dal 2014;
 - b) Membro dell' Editorial Board of **Inorganica Chimica Acta** (Elsevier) dal 2010;
 - c) Membro dell' Editorial Board of **Bioinorganic Chemistry and Applications** (Hindawi) dal 2008;
 - d) Membro dell' Editorial Advisory Board of the **Open Inorganic Chemistry** journal dal 2007;
 - e) Membro dell' editorial Review Board of the **Scientific Journal International** dal 2007;
 - f) Membro dell' Editorial Board of THE ANNALS OF THE “*Dunarea de Jos*” UNIVERSITY OF GALATI, Fascicle II, Mathematics, Physics, Chemistry, Informatics dal 2008.
- i. <http://www.hindawi.com/58640537.html>
 - ii. http://www.elsevier.com/wps/find/journaleditorialboard.cws_home/504086/editorialboard
 - iii. http://www.scientificjournals.org/editorial_board.htm
 - iv. <http://www.bentham.org/open/toicj/EBM.htm>
 - v. <http://pubs.acs.org/userimages/ContentEditor/1233861392520/orgnd7-eab.pdf>

Inoltre:

1. **Guest editor** di un volume speciale del Journal Organometallic Chemistry dedicato a “EuChem Conference on Nitrogen Ligands in Organometallic and Chemistry held in Camerino”.
2. **Guest editor** di un volume speciale del Journal Organometallic Chemistry dal titolo “Recent Advances in Organotin Chemistry”.
3. **Guest editor** di un volume speciale del Inorganica Chimica Acta dedicato al prof. Trofimenko.
4. **Guest editor** di un volume speciale del J. Organometallic Chemistry dedicato a ISOC 2011: **TAILORED ORGANOMETALLIC COMPLEXES WITH IMPROVED FUNCTIONS**.
5. **Guest editor** di un volume speciale del J. Organometallic Chemistry dedicato a ISOC 2013
6. **Invited speaker at ACS National congress in New Orleans 2003**
7. **Invited Speaker (Plenary Lecture) at Athens 2005-FIGIPAS**
8. **Plenary Lecture at Milano 2007 (Italian Chemistry Division congress)**
9. **Plenary Memorial Lecture at Garmish 2008 (Nitrogen donor ligand international Meeting)**
10. **Plenary Lecture at Torino 2010 (workshop on MOF)**
11. **Plenary Lecture at Organometallic School (Bertinoro, 2010)**
12. **Key-note Lecture at EUCOMC Toulouse 2011**
13. **Plenary Lecture at ICOMC Lisbon 2012.**
14. **Invited Speaker at XXXIV Reunion Bienal Real Sociedad de Quimica Espanola, Santander 2013.**
15. **Plenary Lecture at Bioinorganic Chemistry School (Pisa, November 2014)**

Missioni Internazionali

- a) Lisbon 2007 (ERASMUS anniversary)
- b) Denver, Pittsburgh, Cleveland (US embassy Mission for Italian Universities-Technological Transfer Trip)
- c) Buenos Aires (Consortium of Italian Universities for Argentina, CUIA delegation 2010)
- d) Buenos Aires (CUIA delegation 2011)
- e) Buenos Aires (CUIA delegation 2012)
- f) Buenos Aires (CUIA delegation 2013)
- g) Buenos Aires (CUIA delegation 2015)
- h) Pechino and Jinan (Regione Marche delegation)
- i) Porto Alegre (luglio 2013-COSMOB-Regione Marche: Lecture at SEBRAE)
- j) Florianopolis, Santa Caterina, Joao Pessoa (novembre 2013 COSMOB-Regione Marche: Lecture at SEBRAE)
- k) Florianopolis (March 2014, regione MARCHE-COSMOB)
- l) Brasilia (November 2014, regione Marche-COSMOB Plenary Lecture at SEBRAE meeting)

Scientific Congresses and Workshop Organization

- a) Member of the Organizing committee of CO.GI.CO '92, 1st Congress of the Interdivisional Group of Organometallic Chemistry, September 1992, Camerino.
- b) Member of Organizing Committee of XIII T.U.M (Tosco-Umbro-Marchigiana) held in Camerino from 12 to 13 may 1994.
- c) Member of the Organizing Committee of the the seven editions of ISOC (1997-2009) (International School of Organometallic Chemistry)
- d) **Chairman** of the last two editions of ISOC (2011, 2013).
- e) **Chairman** of the Organizing Committee of the 3rd EUCHEM Conference on Nitrogen Ligands in Organometallic Chemistry, Sept 8-12, 2004, Camerino.
- f) Member of the Scientific committee of the 4th EUCHEM Conference on Nitrogen Ligands in Organometallic Chemistry, Catalysis and Coordination Chemistry, Aug 25-28, 2008, Garmisch.
- g) Member of the Scientific committee of the 5th EUCHEM Conference on Nitrogen Ligands in Organometallic Chemistry, Catalysis and Coordination Chemistry, Set 4-8, 2011, Granada.
- h) Member of the Scientific committee of the 6th EUCHEM Conference on Nitrogen Ligands in Organometallic Chemistry, Catalysis and Coordination Chemistry, 2015, Beaune, France
- i) Member of the Scientific committee of CO.GI.CO 2004 (Cetraro), 2006 (Parma) and 2008 (Perugia), respectively, 6th, 7th and 8th Congress of the Interdivisional Group of Organometallic Chemistry.
- j) Chairman of the Organizing and Scientific Committee of the 1st International Workshop on New Hybrid Metal Organic Materials, Jan 16-18, 2009, Camerino.
- k) Member of the Scientific Committee of IX Symposium of Colloids and Surface Chemistry held in Galati (Romania, May 2008).
- l) Member of the Scientific committee of XXXVIII Congresso Nazionale della Divisione di Chimica Inorganica, 13-16 Sept 2010 (Trieste).
- m) Member of Scientific Committee of the Scuola Nazionale di Chimica Organometallica per dottorandi, 23-27 maggio 2010 Bertinoro (BO)
- n) Member of Scientific Committee of the Scuola Nazionale di Chimica Bioinorganica per dottorandi, 3-6 luglio 2011 Siena.
- o) Workshops Organisation in Buenos Aires (2011 and 2012): Functional Coordination Polymers.
- p) Presidente del Comitato organizzatore (chairman) del XLIII Congresso Nazionale di Chimica Inorganica (Camerino 2015)

Scientific Collaborations

Claudio Pettinari has collaborated and actually collaborates with many research groups from different national and international Universities and Research institutes.

2. Prof. Sergei I. Troyanov e A. Drodzov (Università Lomonossov di Mosca).
3. Prof. Luis Oro (Univ. of Zaragoza, Spain)
4. Dr. Franco Caruso, Dr. Riccardo Spagna, Dr.ssa Clara Marciante, Dr. Alberto Cassetta (CNR).
5. Prof.ssa Bruna Bovio (Università di Pavia).
6. Prof. Marcello Colapietro (Università la Sapienza, Roma).
7. Prof. ssa Miriam Rossi (Dep. of Chemistry, Vassar College, New York, USA).
8. Prof. ssa Eleonora Rivarola (Università di Palermo).
9. Dr. Marcello Crucianelli (Università dell'Aquila).
10. Dr. Carla Carfagna (Università di Urbino).
11. Dr. Andrea Mele (Politecnico di Milano).

12. Prof. Qingshan Li (Dipartimento di Scienze Farmaceutiche, Shanxi Medical University, R. P. Cinese)
13. Dr. ssa Rodica Dinica (Università di Galati, Romania)
14. Dr. Giovanni Battiston (area CNR-Padova).
15. Prof. Alexander Voloshin (UFA, Institute of Organic Chemistry, Ufa, Russia)
16. Dr. Gajdane Schrantz Krisztina (University of Szeged, Ungheria)
17. Prof. Luciano Pandolfo (Università di Padova)
18. Prof. Pietro Tagliatesta (Università di Tor Vergata Roma)
19. Prof. Magda Monari (Università di Bologna)
20. Dr. John Hanna (ANSTO Facilities, NMR Division, Australia)
21. Dr. S. Trofimenko (Du Pont, University of Delaware)
22. Prof. Ernesto Carmona (Università di Siviglia)
23. Prof. Dan Reger (University of South-Carolina)
24. Prof. Daniel Rabinovich (University of North-Carolina at Charlotte)
25. Prof. Norberto Masciocchi, Prof. A. Sironi (Università dell'Insubria + Uni Milano)
26. Prof. Daniela Pucci e Prof. Alessandra Crispini (Università della Calabria)
27. Prof. Eleuterio Alvarez (Univ. Sevilla)
28. Prof. Francesco Fanizzi (Università di Lecce)
29. Prof. Roberto Gobetto (Università di Torino)
30. Proff. Allan H. White and B. W. Skelton (University of Western Australia, Perth).
31. Prof. Alceo Macchioni (Università di Perugia)
32. Prof. Susumu Kitagawa (University of Tokio)
33. Dr. Maurizio Peruzzini (CNR Firenze)
34. Dr. Jack Harrowfield (ISIS – Strasbourg)
35. Prof. Konstantin Domasevitch (University of Kiev)
36. Dr. Stefano Stagni (Università di Bologna)
37. Dr. F. De Angelis (CNR Perugia)
38. Prof. Silvia Bordiga (Univ. Torino)
39. Prof. Graham Bowmaker (Auckland Univ)
40. Prof. Silvia Casassa (Torino University)
41. Prof. Luisa Martins (University of Lisbon)
42. Prof. Jeffrey Long (University of Berkeley)
43. Prof. V. Trofimenko (University of Delaware)
44. Prof. K. Domasevitch (university of Lviv)
45. Prof. Maurizio Peruzzini (CNR Firenze)
46. Prof. Tushar Basu Baul (Shillong University)
- 46 Prof. Tabassum Sarta (Aligar Muslim University)

Teaching Activity

Claudio Pettinari in the academic years 1992-93, 1993-94, 1994-95 and 1995-96 did tutorship in theoretical exercises within the following courses:

- General and Inorganic Chemistry (Degree in Pharmacy).
- General and Inorganic Chemistry-I (Degree in Chemistry).
- General and Inorganic Chemistry-II (Degree in Chemistry).

Previous Teachings

Claudio Pettinari has been regular teacher of the following courses:

1. **General and Inorganic Chemistry** (Degree in Scientific Information on Drugs) in the academic years: 1996-1997, 1997-1998, 1998-1999, 1999-2000, 2000-2001.
2. **Inorganic Chemistry-II** (Degree in Chemistry) in the academic years: 1996-1997, 1997-1998, 1998-1999, 1999-2000, 2000-2001, 2001-2002, 2002-2003.
3. **Advanced Inorganic Chemistry** (Degree in Chemistry) in the academic year 1996-1997.
4. **Mathematics and Physics** (Physics Unit) (Degree in Scientific Information on Drugs) in the academic years 1998-1999 and 1999-2000.

5. **Mechanisms of Reaction in Inorganic Chemistry** (Degree in Chemistry) in the academic years: 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2003-2004.
6. **General and Inorganic Chemistry** (Degree in Pharmacy) in the academic years: 2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015.
7. **Didactics of Chemistry** (Degree in Chemistry) in the academic years 2003-2004, 2004-2005, 2005-2006, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012.
8. **General and Inorganic Chemistry** (Degree in Scientific Information on Drugs and Toxicology) in the academic years 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010.
9. **Advanced Inorganic Chemistry** (Specialistic Degree in Advanced Chemical Methodologies) in the academic years 2003-2004, 2004-2005, 2005-2006, 2006-2007, and 2007-2008.
10. **Mechanisms of Reaction in Inorganic Chemistry** (Specialistic Degree in Advanced Chemical Methodologies) in the academic years 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008.
11. **General and Inorganic Chemistry** (Degree in Biotechnology) in the academic year 2006-2007.
12. **Advanced Didactics of Chemistry** (Interuniversity School of Specialization for teaching in School, Natural Sciences Curriculum) in the academic years 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006.
13. **Inorganic Chemistry- I** (Degree in Chemistry) in the academic years 1996-1997 and 1997-1998.
14. **General and Inorganic Chemistry** (Degree in Paper Sciences and Technologies) in the academic years 1996-1997, 1997-1998, 1998-1999, 1999-2000, and 2000-2001.
15. **General and Inorganic Chemistry** (Science of Animal Production) in the academic year 2010-2011.
16. **Inorganic and Organometallic Biochemistry** (Specialistic Degree in Advanced Chemical Methodologies) in the academic years 2009-2010 and 2010-2011.

Actual Teachings

- a) **General and Inorganic Chemistry** (Degree in Pharmacy): 12 CFU

Teaching Staff

Teaching Staff period at the Universities of Sevilla, Paris, Strasbourg, Lisbon, Galati and Toulouse during which time Claudio pettinari did lessons of Mechanisms of Reactions In Inorganic Chemistry and performed seminars on Advanced Inorganic Chemistry. Seminars in Paris, Barcellona, Saragozza, Sevilla, Strasbourg, Galati, Univ. Delaware, Univ. South Carolina.

Tutor of degree theses

Tutor of more than 130 degree thesis since 1994 till now and tutor of ten Ph.D thesis (six in the last three years).

Supervisors of Doctoral Thesis (in bold are indicated the concluded PhD courses)

- a) **Domenico Martini**
- b) **Corrado Di Nicola**
- c) **Adele Cerquetella**
- d) **Jean Ngoune**
- e) **Aurel Tabacaru (XXV ciclo)**
- f) **Ivan Timokhin (XXIV)**
- g) **Alessandro Marinelli (XXIII ciclo)**
- h) **Serena Orbisaglia (XXV ciclo)**
- i) **Jessica Palmucci (XVI ciclo)**
- j) Nertil Khaferaj (XXVII ciclo)
- k) Francesca Condello (XXVII ciclo)
- l) Alessandra Sabatini (XVIII ciclo)
- m) Giovanni Tosi (XVIII ciclo)
- n) Nello Mosca (XIX ciclo)

o) Fabio Ciuffreda (XIX ciclo)

Master Organization:

He is actually member of the scientific committee for a Master on “Paper conservation and restoration” and Director of a Master on Advanced Materials for the fashion system (Brasilia-Camerino 2015). Claudio Pettinari has coordinated for his university the introduction and development of dual MASTERS degree courses with great relevance European universities for all scientific courses and specifically he coordinated the agreement between Instituto Superior Tecnico de Lisboa and UNICAM for Chemistry and Jilin University and UNICAM for Biotechnology.

List of publications of Claudio Pettinari (from Web of science)

1.	Title: Copper(I) derivatives of bis(azol-1-yl)alkanes Author(s): Bonati, F; Cingolani, A; Gioia Lobbia, G; Leonesi, D; Cingolani, A; Pettinari, C Source: GAZZETTA CHIMICA ITALIANA Volume: 120 Issue: 5 Pages: 341-345 Published: MAY 1990
2.	Title: Adduct formation or metalation from 1,2-bis(N-pyrazolyl)ethane and mercury (II) derivatives Author(s): Lorenzotti, A; Cecchi, P; Pettinari, C ; Leonesi, D; Bonati, F Source: GAZZETTA CHIMICA ITALIANA Volume: 121 Issue: 2 Pages: 89-91 Published: FEB 1991
3.	Title: Organotin(IV) polypyrazolylborates. 3. Tris(3,5-dimethylpyrazolyl)borates Author(s): Gioia Lobbia, G; Bonati, F; Cecchi, P; Lorenzotti, A; Pettinari, C Source: JOURNAL OF ORGANOMETALLIC CHEMISTRY Volume: 403 Issue: 3 Pages: 317-323 Published: FEB 19 1991
4.	Title: Organotin derivatives of 4-acyl-5-pyrazolones – Crystal structure of trans-di(tert-butyl)bis(1-phenyl-3-methyl-4benzoyl-pyrazolon-5-ato)tin(IV) Author(s): Pettinari, C ; Rafaiani, G; Gioia Lobbia, G; Lorenzotti, A; Bonati, F; Bovio, B Source: JOURNAL OF ORGANOMETALLIC CHEMISTRY Volume: 405 Issue: 1 Pages: 75-92 DOI: 10.1016/0022-328X(91)83158-Z Published: MAR 5 1991
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7.	Title: Preparation of zinc and cadmium adducts of 1,2-bis(N-pyrazolyl)ethane and comparison with other bis(N-pyrazolyl)alkane derivatives of group 12 metals Author(s): Lorenzotti, A; Bonati, F; Cingolani, A; Leonesi, D; Pettinari, C Source: GAZZETTA CHIMICA ITALIANA Volume: 121 Issue: 12 Pages: 551-554 Published: DEC 1991
8.	Title: Tin(IV) and organotin(IV) adducts of 4-acyl-5-pyrazolones and germanium (IV) 4-acyl-5-pyrazolonates Author(s): Pettinari, C ; Bonati, F; Cingolani, A; Gioia Lobbia, G, Marchetti, F Source: GAZZETTA CHIMICA ITALIANA Volume: 122 Issue: 7 Pages: 261-267 Published: JUL 1992
9.	Title: Synthesis and characterization of some tin(IV) and organotin(IV) derivatives of 1-phenyl-3-methyl-4-acyl-5-pyrazolones Author(s): Marchetti, F; Pettinari, C ; Cingolani, A; Leonesi, D Source: SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY Volume: 23 Issue: 9 Pages: 1485-1505 DOI: 10.1080/15533179308016701 Published: 1993
10.	Title: Tin(IV) and organotin(IV) complexes with heterocyclic beta-diketonates. 1. Bis-[4(1-Phenyl-3-methylpyrazol-5-one)]-dioxoalkane derivatives Author(s): Pettinari, C ; Marchetti, F; Cingolani, A; Leonesi, D; Gioia Lobbia, G; Lorenzotti, A Source: JOURNAL OF ORGANOMETALLIC CHEMISTRY Volume: 454 Issue: 1-2 Pages: 59-66 DOI: 10.1016/0022-328X(93)83223-I Published: JUL 27 1993
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16.	Title: Synthesis and characterization of some tin(II) and tin(IV) derivatives of 4-acyl-5-pyrazolones- Crystal structure of bis(1-phenyl-3-methyl-4-acetyl-pyrazolon-5-ato)tin(II) Author(s): Pettinari, C ; Marchetti, F; Cingolani, A; Marciante, C; Spagna, R; Colapietro, M Source: POLYHEDRON Volume: 13 Issue: 6-7 Pages: 939-950 DOI: 10.1016/S0277-5387(00)83014-4 Published: MAR-APR 1994
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21.	Title: Organotin(IV) polypyrazolylborates- 7. Hydridotris (3,4,5-trimethyl-1H-pyrazol-1-yl)borates. X-Ray Crystal structures of K[HB(3,4,5-Me₃pz)₃] and [HB(3,4,5-Me₃pz)₃SnMeCl₂] Author(s): Gioia Lobbia, G; Cecchi, P; Spagna, R; Colapietro, M; Pifferi, A; Pettinari, C

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25.	Title: Synthesis and characterization of copper(II) derivatives with nitrogen-donor ligands. 2. Dihydrido-bis(1H-pyrazol-1-yl)borate and tetrakis(1H-pyrazolyl-1-yl)borate – The X-ray crystal structure of [pz₂B-(μ-pz)₂-Cu(PPh₃)₂] Author(s): Cecchi, P; Bovio, B; Gioia Lobbia, G; Pettinari, C ; Leonesi, D. Source: POLYHEDRON Volume: 14 Issue: 17-18 Pages: 2441-2449 DOI: 10.1016/0277-5387(95)00068-4 Published: AUG 1995
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28.	Title: Synthesis and characterization of copper(I) and copper(II) coordination compounds containing 4-acylpyrazolon-5-ato ligands. Crystal structure of [(4-trifluoroacetyl-1-phenyl-3-methylpyrazolon-5-ato)bis(triphenylphosphine)copper(I)] Author(s): Marchetti, F; Pettinari, C ; Cingolani, A; Leonesi, D; Camalli, M; Pifferi, A. Source: POLYHEDRON Volume: 15 Issue: 21 Pages: 3835-3849 DOI: 10.1016/0277-5387(96)00104-0 Published: 1996
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30.	Title: Tin(IV) and organotin(IV) complexes containing mono or bidentate N-donor ligands .1. 1-Benzylimidazole derivatives Author(s): Pettinari, C ; Marchetti, F; Cingolani, A; Bartolini, S. Source: POLYHEDRON Volume: 15 Issue: 8 Pages: 1263-1276 DOI: 10.1016/0277-5387(95)00384-3 Published: APR 1996
31.	Title: Tin(IV) and organotin(IV) complexes containing mono or bidentate N-donor ligands .2. 4-phenylimidazole derivatives. Crystal and molecular structure of [bis(4-phenylimidazole)trimethyltin(IV)]chloride Author(s): Pettinari, C ; Marchetti, F; Pellei, M; Cingolani, A; Barba, L; Cassetta, A. Source: JOURNAL OF ORGANOMETALLIC CHEMISTRY Volume: 515 Issue: 1-2 Pages: 119-130 DOI: 10.1016/0022-328X(95)06054-Z Published: MAY 31 1996
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35.	Title: Synthesis and characterization of copper(I) derivatives with N-donor ligands .4. Poly(1H-pyrazol-1-yl)borates cyclohexylphosphine Cu^I, the X-ray crystal structures of [HB-(μ-pz)₃-CuPCy₃] and [HB-(μ-3,5 Me₂pz)₃-CuPCy₃] Author(s): Gioia Lobbia, G; Pettinari, C ; Santini, C; Colapietro, M; Cecchi, P. Source: POLYHEDRON Volume: 16 Issue: 2 Pages: 207-215 DOI: 10.1016/0277-5387(96)00284-7 Published: 1997
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37.	Title: Zinc(II), cadmium(II) and mercury(II) derivatives of bis(4-halopyrazol-1-yl) alkanes: synthesis, spectroscopic characterization and behaviour in solution Author(s): Pettinari, C ; Lorenzotti, A; Pellei, M; Santini, C. Source: POLYHEDRON Volume: 16 Issue: 19 Pages: 3435-3445 DOI: 10.1016/S0277-5387(97)00089-2 Published: 1997
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42.	Title: Tin(IV) and organotin(IV) complexes containing mono or bidentate N-donor ligands - IV. 2-methyl-, 2-isopropyl- and 4-methyl-imidazole derivatives: synthesis, characterization and behaviour in solution Author(s): Pettinari, C ; Pellei, M; Marchetti, F; Santini, C; Miliani, M. Source: POLYHEDRON Volume: 17 Issue: 4 Pages: 561-576 DOI: 10.1016/S0277-5387(97)00330-6 Published: 1998
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53.	Title: Copper and calcium complexes with the anionic O-2-donor 4-tert-butylacetyl-3-methyl-1-phenylpyrazol-5-onato (Q⁻). Influence of hydrogen-bond interactions on lattice architecture in the crystal structures of [CuQ₂(H₂O)] and [CaQ₂(EtOH)₂] Author(s): Marchetti, F; Pettinari, C ; Cingolani, A; Leonesi, D; Drozdov, A; Troyanov, SI. Source: JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS Issue: 19 Pages: 3325-3333 DOI: 10.1039/a804768e Published: OCT 7 1998
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324.	Lavoro tetrameri
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327.	Il argento Fabio
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