


PERSONAL INFORMATION



Isabella Silvia Rimoldi

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WORK EXPERIENCE

2005-

Research Assistant Professor at the University of Milan, Department of Pharmaceutical Science, SSD CHIM/03. Responsible for teaching of the course of "Inorganic, General Chemistry and Stoichiometry", Faculty of Pharmacy (University of Milan)

2001-2005

Technical staff of Faculty of Pharmacy (University of Milan)

EDUCATION AND TRAINING

2005

Ph.D. in "Medicinal Chemistry" (XVIII Cycle) University of Milan.

2001

Graduation in Pharmaceutical Chemistry and Technology at the University of Milan.

PERSONAL SKILLS

Mother tongue

Italian

Other language

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
intermediate	advanced	intermediate	intermediate	advanced

Job-related skills

Preparation of new chiral ligands, synthesis and characterization of the corresponding complexes in coordination with ruthenium, rhodium, iridium, palladium, platinum and other transition metals. Synthesis and characterization of new platinum and ruthenium complexes with antineoplastic activity. Preparation of new bioactive compounds, as important intermediate for the synthesis of pharmaceutical molecules.

Synthesis of metallo-enzymes able to be used as catalyst in the asymmetric reduction; catalytic screening of asymmetric reactions like hydrogenation, hydroformylation, Henry reaction and hydrogen transfer.

Use of analytical techniques as: gas-chromatography, HPLC, UV-visible spectroscopy, NMR and mass spectroscopy.

Organizational / managerial skills

Tutor of postdoc student, co-tutor of 3 PhD students, since 2007 tutor for 14 graduand students of University of Milan.

Other skills

Use of Microsoft Office, chemical software and instrument management software.

ADDITIONAL INFORMATION

Publications

Co-author of 40 publications on peer-reviewed international journals, translation of 3 books' chapters.

H-index:12

1. Petrella, Francesco; Rimoldi, Isabella; Facchetti, Giorgio; Spaggiari, Lorenzo. Novel platinum agents and mesenchymal stromal cells for thoracic malignancies: state of the art and future perspectives. *Expert Opinion on Therapeutic Patents* (2018), 28(11), 813-821.

2. Rimoldi, Isabella; Cocce, Valentina; Facchetti, Giorgio; Alessandri, Giulio; Brini, Anna Teresa; Sisto, Francesca; Parati, Eugenio; Cavicchini, Loredana; Lucchini, Giorgio; Petrella, Francesco; Pessina, Augusto. Uptake-release by MSCs of a cationic platinum(II) complex active in vitro on human malignant cancer cell lines. *Biomedicine & Pharmacotherapy* (2018), 108, 111-118.

3. Facchetti, Giorgio; Bucci, Raffaella; Fuse, Marco; Rimoldi, Isabella. Asymmetric Hydrogenation vs Transfer Hydrogenation in the Reduction of Cyclic Imines *ChemistrySelect* (2018), 3(31), 8797-8800.

4. Gandolfi, Raffaella; Facchetti, Giorgio; Christodoulou, Michael S.; Fuse, Marco; Meneghetti, Fiorella; Rimoldi, Isabella Cascade Reaction by Chemo- and Biocatalytic Approaches to Obtain Chiral Hydroxy Ketones and anti 1,3- Diols. *ChemistryOpen* (2018), 7(5), 393-400.
5. Fuse, Marco; Rimoldi, Isabella; Facchetti, Giorgio; Rampino, Sergio; Barone, Vincenzo Exploiting coordination geometry to selectively predict the s-donor and p-acceptor abilities of ligands: a backand-forth journey between electronic properties and spectroscopy. *Chemical Communications* (2018), 54(19), 2397-2400.
6. Porta, Federica; Facchetti, Giorgio; Ferri, Nicola; Gelain, Arianna; Meneghetti, Fiorella; Villa, Stefania; Barlocco, Daniela; Masciocchi, Daniela; Asai, Akira; Miyoshi, Nao; Rimoldi, Isabella. An in vivo active 1,2,5-oxadiazole Pt(II) complex: A promising anticancer agent endowed with STAT3 inhibitory properties. *European Journal of Medicinal Chemistry* (2017), 131, 196-206.
7. Fuse, Marco; Rimoldi, Isabella; Cesarotti, Edoardo; Rampino, Sergio; Barone, Vincenzo. On the relation between carbonyl stretching frequencies and the donor power of chelating diphosphines in nickel dicarbonyl complexes. *Physical Chemistry Chemical Physics* (2017), 19(13), 9028-9038.
8. Rimoldi, Isabella; Facchetti, Giorgio; Lucchini, Giorgio; Castiglioni, Elisa; Marchiano, Silvia; Ferri, Nicola. In vitro anticancer activity evaluation of new cationic platinum(II) complexes based on imidazole moiety. *Bioorganic & Medicinal Chemistry* (2017), 25(6), 1907-1913.
9. Pellegrino, Sara; Facchetti, Giorgio; Contini, Alessandro; Gelmi, Maria Luisa; Erba, Emanuela; Gandolfi, Raffaella; Rimoldi, Isabella. Ctr-1 Mets7 motif inspiring new peptide ligands for Cu(I)-catalyzed asymmetric Henry reactions under green conditions. *RSC Advances* (2016), 6(75), 71529-71533.
10. Pellizzoni, Michela; Facchetti, Giorgio; Gandolfi, Raffaella; Fuse, Marco; Contini, Alessandro; Rimoldi, Isabella. Evaluation of chemical diversity of biotinylated chiral 1,3-diamines as a catalytic moiety in artificial imine reductase. *ChemCatChem* (2016), 8(9), 1665-1670.

Financially supported projects

- 1) Member of the research unit for UNIMI in **PRIN 2010** titled "Sistemi naturali sintetici ad attività antitumorale".
- 2) Member of the research unit for UNIMI in **PUR 2008** titled "Sintesi, caratterizzazione, spettroscopia, reattività e attività catalitica di composti di coordinazione, organometallici, bioinorganici e dei materiali inorganici"
- 3) Member of the research unit for UNIMI in **PRIN 2007** titled "Materiali molecolari, chirali e non, per foto/elettroconversione"
- 4) Member of the research unit in **PUR 2007** titled "Sintesi, caratterizzazione, spettroscopia, reattività e attività catalitica di composti di coordinazione, organometallici, bioinorganici e dei materiali inorganici"
- 5) Member of the research unit in **PUR 2006** titled "Sintesi, caratterizzazione, spettroscopia, reattività e attività catalitica di composti di coordinazione, organometallici, bioinorganici e dei materiali inorganici"
- 6) Finanziamento d'Ateneo 2015-2017: Università di Milano-**Piano di sostegno alla Ricerca 2015–2017- LINEA 2**. 2015: "New cationic platinum(II) complexes: synthesis, characterization and preliminary evaluation of their anticancer activity in breast cancer"; 2016: "Optimization of imidazole platinum(II) complexes as promising therapeutics for triple-negative breast cancer"; 2017: "Development of peptide-based hybrid catalysts for asymmetric catalysis".

Teaching activities

- since 2015-: course of Chimica Generale, Inorganica e Stechiometria per la Laurea in Chimica e Tecnologia Farmaceutica.
- from 2012 to 2015: course of Chimica Generale, Inorganica e Stechiometria per la Laurea in Farmacia.
- from 2005-2006 to 2011: Corso di Chimica Generale e Inorganica per la Laurea in Biotecnologie (biennio comune).
- a.a. 2011-2012: course of "Metodologie avanzate di sintesi metallo assistite e caratterizzazione delle molecole bioattive" Mod.1 per il corso di laurea in Chimica e Tecnologie Farmaceutiche, 4° anno.

Memberships

Member of the Società Chimica Italiana (SCI). Member of Gruppo Italiano Staminali Mesenchimali (GISM).

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.