

RUGIADA GIROTTI

Personal Data

Nationality: Italian
Place of birth: Torino
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Single

Education

1996 – General Certificate of Education, "Istituto Magistrale M. di Savoia " Ravenna (final grade: 56/60)
1997-2001-Graduate study. I have taken the degree in Chemistry at the University of Bologna in December 2001 (final grade 110/110 cum laude).
January 2004-to December 2006: PhD student in Organic Chemistry at University of Perugia (Tutors: Prof. F. Fringuelli, Prof. F. Pizzo)

Thesis

Ms Study: In organic chemistry with Professor Claudio Trombini (University of Bologna). Title: "Applications in Organic Chemistry of Etherofunctionalized Zinc and Indium Allylic Compounds".

PhD Thesis:

In Organic Chemistry. Title: "Diels-Alder Reaction in the environmentally-friendly synthesis of target compounds"

Publications

1. "A New Protocol for the Acetoxyallylation of Aldehydes Mediated by Indium in THF" Girotti, R.; Lombardo, M.; Morganti, S.; Trombini, C. *Org. Lett.*, **2001**, 3 (19), 2981.
2. "The First Zinc-Promoted, Environmentally Friendly, and Highly Efficient Acetoxyallylation of Aldehydes in *aq* Ammonium Chloride" Girotti, R.; Lombardo, M.; Morganti, S.; Trombini, C. *Chem. Comm.*, **2001**, 2310.
3. "Diels-Alder Reaction of 3-Substituted Coumarins in water and under High-Pressure Condition. An Uncatalyzed Route to Tetrahydro-6H-benzo[*c*]chromen-6-ones" Girotti, R.; Marocchi, A.; Minuti, L.; Piermatti, O.; Vaccaro, L. *J. Org. Chem.*; **2006**; 71, 70-74
4. "Hafnium Chloride Tetrahydrofuran Complex-Catalyzed Diels-Alder Cycloaddition of 3-Ethoxycarbonylcoumarins with 1,4-Dienes under Solvent-Free Conditions" Girotti, R.; Fringuelli, F.; Pizzo, F.; Vaccaro, L.; Zunnino, E.; *Adv. Synth. Catal.* **2006**, 348, 297-300.
5. "[AlCl₃+2THF]: a new and efficient catalytic system for Diels-Alder cycloaddition of α,β -unsaturated carbonyl compounds under solvent-free condition"; Fringuelli, F.; Girotti, R.; Pizzo, F.; Vaccaro, *Org. Lett.*, **2006**, 8, 2487-2489.

6. "An innovative uncatlyzed multicomponent process under solvent-free condition as a new approach for the syntesis of biphenyl-2-carbonitrile derivatives" Fringuelli, F.;Girotti, R.; Pizzo, F.; Vaccaro, L.; *Org. Lett*, 8, 5741-5744.

Congresses

1. XXIX Convegno Nazionale della divisione di Chimica Organica, Potenza, 31/08/2004-04/09/2004, "Cumarine 3-sostituite: dienofili efficienti in condizioni "solvent-free" ed in presenza di acidi di Lewis per la sintesi di cannabinoidi e di Δ^8 -tetraidrocannabinoidi", (F. Fringuelli, R. Girotti, F. Pizzo, O. Piermatti, L. Vaccaro)
 2. XXIII Convegno Interregionale TUMA 2004 (Toscana Umbria Marche Abruzzo) Chieti, 27-29 settembre 2004, "3-Nitrocumarine come accettori di Michael in condizioni solvent free" (F. Fringuelli, R. Girotti, F. Pizzo, O. Piermatti, L. Vaccaro)
 3. 11th International Symposium on novel aromatic compounds, St. John's Newfoundland, Canada, 14-18 agosto 2005, "A green synthesis of a novel class of biphenyls via Diels-Alder cycloaddition of (E)-2-aryl-1-cyano-1-nitroethenes under SFC", L. Vaccaro, F. Fringuelli, R. Girotti, F. Pizzo,
 4. XII Convegno nazionale sulle Reazioni Pericicliche e Sintesi di Etero e Carbocicli, Messina, 8-9 settembre 2005. "Reazione di Diels-Alder in assenza di solvente catalizzata dal complesso alluminocloruro-tetraidrofurano" (Francesco Fringuelli, Rugiada Girotti, Ferdinando Pizzo, Luigi Vaccaro)
 5. XXX Convegno Nazionale della divisione di Chimica Organica, Siena, 19-23 settembre 2005 "AlCl₃*THF: un efficiente catalizzatore per le reazioni di di Diels Alder di carbonili α , β -insaturi", F. Fringuelli, R. Girotti, F. Pizzo, L. Vaccaro
 6. XXXI Corso estivo "A. Corbella", Gargnano (BS), Palazzo Feltrinelli, 19-23 Giugno 2006, "Nuovo approccio ecosostenibile alla sintesi di bifenil-2-carbonitrili attraverso un processo multicomponente non catalizzato in assenza di solvente", Francesco Fringuelli, Rugiada Girotti, Ferdinando Pizzo, Luigi Vaccaro
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Languages

Italian (mother tongue);

English good level (8 years of study), level upper waystage at Wall Street Institute .

Spanish good level

Informatics Knowledge

Fortran; Windows OS; Office (Word, Excel, PowerPoint); ChemWindow; ChemDraw; Internet.

Professional Experience

- **1998-2001 – Private lessons of Chemistry** for students of secondary school.
- **Summer 2000 – Temporary employment as Analytical Chemist** at "ERIDANIA S.r.l." sugar-refinery.
- **2000-2001 – Part-time assistance to students in Chemical laboratories** of the Department "G. Ciamician" of Bologna.
- **2000-2001 – 1 year of work in the Organic Laboratory** at the Department "G. Ciamician" of Bologna with professor Claudio Trombini as undergraduate student. I used several analytical techniques such as HPLC, FT-IR, ¹H NMR, ¹³C NMR, GC and GC-MS.
- **April-December 2002 –Scholarship** entitled 'Study of degradative processes' financed by Ciba Speciality Chemical. Activity carried on both at Ciba Labs and at the Organic Chemistry Institute 'A. Mangini' (Prof. Pedulli) of Bologna.
- **November 2002-december 2003-chemistry researcher** in Organic Chemistry department of Menarini Ricerche in Pomezia (Rome) where I worked on the synthesis of antitumoral agents.

- **January 2004-January 2007** PhD student in Chemical Sciences at the University of Perugia (Tutors: Prof. F. Fringuelli, Prof. F. Pizzo) working on catalyzed Diels-Alder reactions carried out in solvent-free conditions.
- **February 2007-Currently:** winner of a Marie Curie fellowship "MRTN-CT-2003-503864". This fellowship is part of the AQUACHEM (www.iccom.cnr.it/aquachem/) international project and now I am working for at the Inorganic Department of Almeria's University (Spain), studying the synthesis and the reactivity of ruthenium hydrosoluble complexes.
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References

Prof. Claudio Trombini (University of Bologna), Prof. Francesco Fringuelli (University of Perugia); Dr. Amalia Cipollone (Menarini Ricerche, Pomezia, Rome)

Hobbies

I like informatic, reading, dancing, traveling, going to the cinema and a lot of sports (in particular trekking and climbing).

Goals

I would like to use my background in organic chemistry to work in the research field.