

Wioleta Borzęcka, M.Sc.
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Nationality: Polish

Education

Oct. 2013 – present:

Ph.D. Student
University of Aveiro, Aveiro, Portugal
Department of Chemistry

Sep. 2005 – Jun. 2011:

M.Sc. Chemistry
University of Silesia, Katowice, Poland
Faculty of Mathematics, Physics and Chemistry
Thesis Title: Synthesis and coordination properties of derivatives and analogues of 8-hydroxyquinoline

Research Experience

Oct. 2013 – present:

Organic Chemistry and Nanosciences Laboratory
University of Aveiro, Aveiro, Portugal
Autonomous University of Madrid, Madrid, Spain

Project title: Synthesis of novel photosensitizer-silica nanoparticle hybrids for controlled ¹O₂ and/or photosensitizer release (directed by Dr. Joao Tome, Prof. Tito Trindade and Prof. Tomas Torres)

Oct. 2012 – Sep. 2013:

Bioorganic Chemistry Laboratory
University of Oviedo, Oviedo, Spain
Department of Organic and Inorganic Chemistry

Project title: Developing the next generation of biocatalysts for industrial chemical synthesis. Industrial application of oxidases (directed by Prof. Vicente Gotor and Dr. Iván Lavandera)

Sep. 2011 – Sep. 2012:

Bioorganic Chemistry Laboratory
University of Oviedo, Oviedo, Spain
Department of Organic and Inorganic Chemistry

Project title: Sustainable chemistry. Biocatalytic processes for the preparation of high value added products. Application in organocatalysis and drug synthesis (directed by Prof. Vicente Gotor and Dr. Iván Lavandera)

Nov. 2010 – Jul. 2011:

Organic Chemistry Laboratory
Polish Academy of Science, Warsaw, Poland
Institute of Organic Chemistry

Project title: Synthesis and coordination properties of derivatives and analogues of 8-hydroxyquinoline (directed by Prof. Daniel Gryko)

Mar. 2010 – Sep. 2010:

Organic and Inorganic Chemistry Laboratory
University of Bremen, Bremen, Germany
Department of Organic and Inorganic Chemistry

Project 1 title: Studies towards synthesis and spectroscopic characterization of novel photosensitizers for application in photodynamic therapy (directed by Prof. Franz Peter Montforts)

Project 2 title: Calixarenes as building blocks for molecular receptors (directed by Dr. Vladimir Azov)

Scholarships

Oct. 2013 – Sep. 2016:

Fellowship for Early-Stage Researcher within The Singlet Oxygen Strategy (SOS) Network funded by The Marie Curie Initial Training Networks (ITN) under the European Union programme FP7-PEOPLE-2012-ITN, Aveiro, Portugal; Madrid, Spain

May 2013 – Sep. 2013:

Predocctoral fellowship by Spanish Ministry of Education, Oviedo, Spain

Dec. 2012 – Apr. 2013:

Predocctoral fellowship by Principality of Asturias, Oviedo, Spain

Oct. 2012 – Nov. 2012:

Predocctoral fellowship by BIONEXGEN Project co-financed by the European Commission under the 7th Framework Programme, Oviedo, Spain

- Sept. 2011 – Sept. 2012: Fellowship for Applied Research, Project MEC-07-CTQ2007-61126, Oviedo, Spain
- Nov. 2010 – Jul. 2011: Master fellowship by Foundation for Polish Science, Team Programme, co-financed by the European Union within the European Regional Development Fund, Warsaw, Poland
- Mar. 2010 – Sep. 2010: Erasmus fellowship by Erasmus Programme, Bremen, Germany

Presentations

- Synthesis and coordination properties of derivatives and analogues of 8-hydroxyquinoline; **Wioleta Borzęcka**, Daniel Gryko, Eugene Poronik; *Winter School of Novel Organic Chemistry organized by Polish Academy of Science*; Szczyrk, Poland; 27 Feb. – 4 Mar. 2011 (oral presentation)
- Synthesis and coordination properties of derivatives and analogues of 8-hydroxyquinoline; **Wioleta Borzęcka**, Daniel Gryko, Eugene Poronik; *Student Section of Polish Chemistry Society Spring Meeting*; Murzasichle, Poland; 13 – 17 Apr. 2011 (poster presentation)
- Synthesis of enantiopure fluorohydrins using alcohol dehydrogenases at high substrate concentration, **Wioleta Borzęcka**, Iván Lavandera, Vicente Gotor; *BIOTRANS 2013*; Manchester, UK, 21-25 Jul. 2013 (poster presentation)

Publications

- Synthesis of enantiopure fluorohydrins using alcohol dehydrogenases at high substrate concentration, **Wioleta Borzęcka**, Iván Lavandera, Vicente Gotor; *The Journal of Organic Chemistry* **2013**, *78*, 7321-7317
- Biocatalyzed synthesis of both enantiopure fluoromisonidazole antipodes, **Wioleta Borzęcka**, Iván Lavandera, Vicente Gotor; *Tetrahedron Letters* **2013**, *54*, 5022-5025

Activities

- Member of *Student Section of Polish Chemistry Society* (since Dec. 2010)
- Member of *Polish Scouting and Guiding Association* (since Dec. 2002)
- Member of *Polish Tourist and Sightseeing Society* (since Sep. 1999)

Additional Training Received

- Mar. 2013 – Apr. 2013: Engineering Project Fundamentals
University of Oviedo, Oviedo, Spain
- learn to select, describe and design a project and to prepare a technical proposal; demonstrate subject matter of a project topic and a high level of written communication skill in English
- Jun. 2007 – Sep. 2008: Advanced English Language Course (level C1)
Callan School of English, London, UK
- Oct. 2008 – Jun. 2010: Teaching Certificate in Chemistry
University of Silesia, Katowice, Poland
- three month training as chemistry teacher at lower and higher secondary schools
- Mar. 2004: First Aid Training course organised by Polish Scouting and Guiding Association
- member of the first aid team at the International Six Days Enduro'04, Kielce, Poland

Other

- Computer skills: Windows, Linux, Microsoft Office, Open Office
- Languages: Polish (mother language), English (advanced C1), Spanish (intermediate B2), German (elementary A2), Latin (elementary A2)
- Driving licence (since Mar. 2005)