

Ivana Gergelitsová

Birth Name: Jurásková

EDUCATION

Faculty of Science, Charles University, Prague

10/2012 – present Ph.D. in Organic Chemistry
Dissertation: *Design, Synthesis, and Application of Novel Bifunctional (Thio)urea Organocatalysts Derived from Saccharides & Catalytic Asymmetric C–H Arylation of (η^6 -Arene)Chromium Complexes*
supervisor: doc. RNDr. Jan Veselý, PhD.

interrupted by maternity leave 2017 – 2021

Ecole Supérieure de Physique et de Chimie Industrielles de Paris, Paris, France

03/2012 Advance Technology Higher Education Network, Socrates (ATHENS)
Structure-Property Relationships in Polymers

Faculty of Chemical Technology, University of Chemistry and Technology Prague, Prague

9/2010 – 6/2012 Master in Organic Chemistry (summa cum laude)
Diploma thesis: *Preparation of metaleted aminocarbene complexes and their reactions with electrophiles*
supervisor: Prof. Ing. Dalimil Dvořák, CSc.

Department of Education and Human Sciences, University of Chemistry and Technology Prague, Prague

9/2009 – 8/2011 Bachelor in Scientific Education Teacher Training
Bachelor thesis: *Computer presentations in Chemistry Education*
supervisor: Ing. Josef Hlavatý, CSc.

Faculty of Chemical Engineering, University of Chemistry and Technology Prague, Prague

9/2007 – 6/2010 Bachelor in Chemistry (summa cum laude)
Bachelor thesis: *Synthesis and reactivity of new derivatives of vinylferrocene*
supervisor: prof. Ing. Dalimil Dvořák, CSc.

INTERNSHIP

School of Chemistry, University of Manchester, Manchester, United Kingdom

9/2015 – 6/2016 Erasmus+ traineeship
supervisor: prof. Igor Larrosa, PhD.

EMPLOYMENT

University of Chemistry and Technology Prague, Prague

9/2016 – present executive assistant (responsible mainly for organization of Chemistry Olympiad)
9/2010 – 4/2011, research scientist within Basic Research Centre LC06070
7/2010 and 7/2009 project: *The structure and Synthetic Application of Transition Metal Complexes*
supervisor: prof. Ing. Dalimil Dvořák, CSc.

Faculty of Science, Charles University, Prague

3/2013 – 8/2016 research scientist

Apigenex s.r.o., Prague

8/2011 practice in the organic laboratory (synthesis of organic compounds in large scale)
supervisor: Ing. Marek Kořínek

PARTICIPATION ON GRANTS

2013 – 2015 GA UK student research grant 704213
Preparation of saccharide-based bifunctional thiourea catalysts, their evaluation and utilization in synthesis of biologically active compounds
principal investigator

PUBLICATIONS

Included in the thesis

Gergelitsová I.; Tauchman J.; Císařová I.; Veselý J. Bifunctional (Thio)urea-Phosphine Organocatalysts Derived from D-Glucose and α -Amino Acids and Their Application to the Enantioselective Morita-Baylis-Hillman Reaction. *Synlett* **2015**, 26, 2690 – 2696.

Batuecas M.; Luo J.; **Gergelitsová I.**; Krämer K., Whitaker D.; Vitorica-Yrezabal I.J.; Larrosa I. Catalytic Asymmetric C–H Arylation of (η^6 -Arene)Chromium Complexes: Facile Access to Planar-Chiral Phosphines. *ACS Catalysis* **2019**, 9, 5268 – 5278.

Not included in the thesis

Gergelitsová I.; Veselý J. Diastereoselective Addition of Organometallic Reagents to Chiral Carbonyl Compounds. In *Asymmetric Synthesis of Drugs and Natural Products*, Nag. A. (Ed.), Boca Raton: CRC Press, **2018**, 29 – 74.

Ceban V.; Tauchman J.; Meazza M.; Gallagher G.; Light M.E.; **Gergelitsová I.**; Veselý J.; Rios R. Expanding the Scope of Metal-Free Enantioselective Allylic Substitutions: Anthrones. *Sci. Rep.* **2015**, 5, 1 – 9.

Tobrman T.; **Jurásková I.**; Dvořák D. Negishi Cross-Coupling Reaction as a Simple and Efficient Route to Functionalized Amino and Alkoxy Carbene Complexes of Chromium, Molybdenum, and Tungsten. *Organometallics* **2014**, 33, 6593 – 6603.

Tobrman T.; **Jurásková I.**; Váňová H.; Dvořák D. Lithiation of Chromium and Tungsten Aminocarbene Complexes: An Easy Approach to Functionalized Aminocarbene Complexes. *Organometallics* **2014**, 33, 2990 – 2996.

CONFERENCE CONTRIBUTIONS (selection)

5th EuCheMS Chemistry Congress (Istanbul, Turkey)

9/2014 *Synthesis and Application of Bifunctional Phosphinothiourea Organocatalysts derived from Saccharides and Aminoacids*
poster

49th Advances in Organic, Bioorganic and Pharmaceutical Chemistry – "Liblice 2014" (Lázně Bělohrad)

11/2014 *Novel Phosphino(thio)urea Organocatalysts, Synthesis and Application*
short communication

XIV. Interdisciplinary Meeting of Young Biologists, Biochemists and Chemists (Milovy)

5/2014 *Synthesis and Evaluation of Bifunctional Thiourea Organocatalysts derived from Saccharides and Aminoacids*
poster (award for the best poster)
published as extended abstract in
Jurásková I.; Tauchman J.; Veselý J. *Chem. Listy* **2014**, 108, 535.

46th Advances in Organic, Bioorganic and Pharmaceutical Chemistry – "Liblice 2011" (Lázně Bělohrad)

11/2011 *Synthesis of Lithiated Fischer Aminocarbene Complexes and Their Reactions with Electrophiles*
poster

TEACHING EXPERIENCE

winter semesters 2013/14, 2014/15, Charles University, Organic Chemistry I, exercise (0+2)

summer semesters 2013/14, 2014/15, Charles University, Organic Chemistry II, exercise (0+2)

winter semester 2014/15, Charles University, Organic Chemistry - Laboratory course.

FURTHER ACTIVITIES

Chemistry Olympiad

- 2014 – 2019 coauthor of the problems,
2018 coauthor of the problems for 50th International Chemistry Olympiad, Prague, Czechia,
2015 mentor at 47th International Chemistry Olympiad, Baku, Azerbaijan,
2013 – 2015 assistant in laboratories of organic chemistry,
2013 – 2014 lecturer in organic chemistry