

Curriculum Vitae



PERSONAL DETAILS

First name and surname: **Barbora Lemrová, Mgr., Ph.D.**
Date of birth: February 7, 1985
Address: Hlavní 161, Dolní Životice, 747 56, Czech Republic
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Marital Status: Married – maiden name Vaňková
Nationality: Czech

EDUCATION

09/2009 – 08/2013 **Palacky University Olomouc**, Faculty of Science, Dpt. Of Organic Chemistry, Ph.D. program, finished by state exam (Ph.D.)
09/2007 – 06/2009 **Palacky University Olomouc**, Faculty of Science, Dpt. Of Organic Chemistry, Master program, finished by state exam (Mgr.)
09/2004 – 05/2007 **Palacky University Olomouc**, Faculty of Science, Bachelor study of Chemistry, finished by state exam (Bc.)
09/2000 – 05/2004 **Secondary Technical Chemical School of Academician Heyrovsky Ostrava**– finished by state exam

WORKING EXPERIENCES

1. 9. 2013 – until now **Assistant Professor**
Department of Organic Chemistry, Faculty of Science, Palacký University in Olomouc
1. 11. 2010 – 30. 8. 2013 **Researcher**
Department of Organic Chemistry, Faculty of Science, Palacký University in Olomouc
1. 7. 2012 – until now **Lector**
Department of Organic Chemistry, Faculty of Science, Palacký University in Olomouc
2007 – 2010 **Researcher** – Short-term research contracts
Teva Czech Industries s.r.o; Opava – Komárov
Department of Research & Development

RESEARCH

- Lemrova, B.; Soural, M. Synthetic Strategies for Preparing Bicyclic Guanidines. *Eur. J. Org. Chem.* **2014**, DOI: 10.1002/ejoc.201403185.
- Lemrova, B., Smyslova, P., Popa, I., Oždian, T., Zajdel, P., Soural, M. Directed Solid-Phase Synthesis of Trisubstituted Imidazo[4,5-*c*]pyridines and Imidazo[4,5-*b*]pyridines *ACS Comb. Sci.* **2014**, *16*, 558-565.
- La Venia, A.; Lemrova, B.; Krechnak, V. Regioselective Incorporation of Backbone Constraints Compatible with Traditional Solid-Phase Peptide Synthesis *ACS Comb. Sci.* **2013**, *15*, 59-72.

- Lemrova, B.; Soural, M. Solid-Phase Synthesis of 4,7,8-Trisubstituted 1,2,3,4-Tetrahydrobenzo[e][1,4]diazepin-5-ones *ACS Comb. Sci.* **2012**, *14*, 645-650.
- Vankova, B.; Brulikova, L.; Wu, B.; Krchnak, V. Synthesis of Piperazinones, Piperazines, Tetrahydropyrazines and Dihydropyrazinones from Polymer-Supported Acyclic Intermediates via N-Alkyl- and N-Acyliminiums *Eur. J. Org. Chem.* **2012**, *26*, 5075-5084.
- Motyka, K.; Vankova, B.; Hlavac, J.; Soural, M.; Funk, P. Purine Scaffold Effect on Fluorescence Properties of Purine-Hydroxyquinolinone Bisheterocycles *J. Fluoresc.* **2011**, *6*, 2207-2212.
- Vankova, B.; Krchnak, V.; Soural, M.; Hlavac, J. Direct C – H Arylation of Purine on Solid Phase and Its Use for Chemical Libraries *ACS Comb. Sci.* **2011**, *5*, 496-500.
- Vankova, B.; Hlavac, J.; Soural, M. *J. Comb. Chem.* **2010**, *6*, 890-894.

INTERNSHIPS:

- 06 – 12/2010 **University of Notre Dame (IN, USA)**, Department of Chemistry and Biochemistry, solid-phase synthesis – prof. Viktor Krchnak.
- 07/2008 **TEVA Pharmaceutical Works Private Ltd. Co., Debrecen - Hungary**
R&D department – László Zsolt Kovács, Ph.D.

CONFERENCES:

- 07/2013: 18th European Symposium on Organic Chemistry, Marseille, France - poster
- 10/2012: Quantum Engineering, Quantum Information, and Semi-Quantum Biology Workshop (QIEB 2012) Adam Mickiewicz University Poznań, Poland – oral presentation.
- 07/2012: Summer School of Medicinal Chemistry, Urbino, Italy.
- 06/2012: 64th Meeting of association of Czech and Slovak chemical societies, Olomouc, Czech republic – oral presentation
- 07/2011: 23th International Congress on Heterocyclic Chemistry, Glasgow, Scotland – oral presentation

GRANTS AND PROJECTS:

- 03/2013 – until now **IGA 2013** Příprava derivátů 2,3-dihydro-1*H*-chinazolin-4-onu s pomocí syntézy na pevné fázi (PřF_2013_027) – co-investigator
- 03/2012 – 02/2013 **IGA 2012:** Solid-Phase Synthesis of Novel Pteridine and Related Heterocycles Derivates (PřF_2012_023) – principal investigator
- 07/2012 – until now **BIOTREND:** Innovation of Education in Chemistry and Biology with Respect To Current Trends in Biomedical Research (CZ.1.07/2.2.00/28.0184) – Lector of solid-phase organic synthesis
- 04/2011 – until now **KOMBICHEM:** Combinatorial Chemistry in Research and Education (CZ.1.07/2.3.00/20.0009) – researcher
- 10/2010 - until now **BIOMEDREG:** Biomedicine for Regional Development and Human Resources (CZ.1.05/2.1.00/01.0030) – researcher

HIGHLIGHTS OF QUALIFICATIONS

- Organic synthesis on solid support and in solution.
- Experienced in synthesizing and purification of various range of organic compounds

- Analysis interpretation and characterization of new organic structures
- Skilled in separation methods (column chromatography-flash chromatography, TLC, HPLC)

LANGUAGES

English: Intermediate

COMPUTER SKILLS

User level on UNIX type operating system with emphasis on chemistry software.