

## Výstupy dedikované projektu PropMedChem

### KA 6 - Výzkum a vzdělávání v oblasti protein-proteinových interakcí

Mentor: RNDr. Viktor Krchňák, CSc.

Postdok: Maria Pilar Ventosa Andrés, MSc., Ph.D.

Verdía Barbará Pedro, MSc., Ph.D.

Barea Ripoll Carlos Alfonso, MSc., Ph.D.

Vanessa Gimenez Navarro, MSc., Ph.D.

Ksenija Kisseljova, MSc., Ph.D.

#### Publikace:

1. Kisseljova, K.; Smyslova, P.; Krchnak, V. Base-mediated Intramolecular sp<sup>3</sup> C-Arylation of *N*-Benzyl-2-nitrobenzenesulfonamides - Advanced Intermediates for Synthesis of Indazoles and Quinazolines. *ACS Comb. Sci.* **2014**, *16*, 573-577.
2. Ventosa Andrés, P.; Hradilova, L.; Krchnak, V. Privileged Structure as Peptide Backbone Constrain: Polymer-Supported Stereoselective Synthesis of Benzimidazolinopiperazinone Peptides. *ACS Comb. Sci.* **2014**, *16*, 359-366.
3. Smyslova, P.; Kisseljova, K.; Krchnak, V. Base-Mediated Intramolecular C- and N-Arylation of *N,N*-Disubstituted 2-Nitrobenzenesulfonamides: Advanced Intermediates for the Synthesis of Diverse Nitrogenous Heterocycles. *ACS Comb. Sci.* **2014**, *16*, 500-505.
4. La-Venia, A.; Ventosa Andrés, P.; Hradilova, L.; Krchnak, V. From Amino Acids to Nature-Inspired Molecular Scaffolds: Incorporation of Medium-Sized Bridged Heterocycles into a Peptide Backbone. *J. Org. Chem.* **2014**, *79*, 10378-10389.
5. Fulopova, V.; Krchnakova, A.; Schütznerova, E.; Zajicek, J.; Krchnak, V. Ring Contraction of 2,5-Dihydrobenzo[*f*][1,2,5]thiadiazepine 1,1-Dioxides: Access to 4*H*-Benzo[*b*][1,4]thiazine 1,1-Dioxides. *J. Org. Chem.* **2015**, *80*, 1795-1801.
6. Ventosa Andrés, P.; La-Venia, A.; Ripoll, C. A. B.; Hradilova, L.; Krchnak, V. Synthesis of Nature-Inspired Medium-Sized Fused Heterocycles from Amino Acids. *Chem. Eur. J.* **2015**, *21*, 13112-13119.
7. Ventosa Andrés, P.; La-Venia, A.; Ripoll, C. A. B.; Krchnak, V. Solid-Phase Synthesis of Fused 1,4-Diazepanones Peptidomimetics via Tandem *N*-Iminium Ion Cyclization - Nucleophilic addition. *Tetrahedron Lett.* **2015**, *56*, 5424-5428.
8. La-Venia, A.; Ventosa Andrés, P.; Krchnak, V. Peptidomimetics via Iminium Chemistry on Solid Phase: Single, Fused, and Bridged Heterocycles. *Topics in Heterocyclic Chemistry* **2015**, in press.
9. Gimenez-Navarro, V.; Volna, T.; Krchnak, V. 3-Alkyl-3-(alkylamino)indolin-2-ones via Base-Mediated C-arylation of 2-Nitrobenzenesulfonamides. *ACS Comb. Sci.* **2015**, *17*, 433-436.
10. Schütznerova, E.; Krchnak, V. *N*-Oxide as an Intramolecular Oxidant in Baeyer-Villiger Oxidation: Synthesis of 2-Alkyl-2*H*-indazol-3-yl Benzoates. *J. Org. Chem.* **2015**, submitted.

11. Carbain, B.; Schütznerova, E.; Krchnak, V. Solid-Phase Synthesis of 3,4-Dihydroquinoxalin-2(1*H*)-ones by Cyclative Cleavage of *N*-Arylated Carboxamides. *Adv. Synth. Catal.* **2015**, submitted.