

PERSONAL INFORMATION

Name and surname: Matija Gredičak

Personal web page: <https://www.irb.hr/eng/About-RBI/People/Matija-Gredicak>

EDUCATION

2010 – PhD

Ruđer Bošković Institute, Zagreb, Croatia

2004 – BSc.

Faculty of Pharmacy and Biochemistry, University of Zagreb, Croatia

EMPLOYMENT

2018– –associate professor

Ruđer Bošković Institute, Zagreb, Croatia

Previous employment

2013–2018 – research associate

Ruđer Bošković Institute, Zagreb, Croatia

2012–2013 – postdoc

University of Oxford, Oxford, UK. Supervisor: prof. Martin D. Smith

2010 – 2012 – postdoc

Ruđer Bošković Institute, Zagreb, Croatia. Supervisor: Dr Ivanka Jerić

2005 – 2010 – PhD student

Ruđer Bošković Institute, Zagreb, Croatia. Supervisor: Dr Ivanka Jerić

PROJECTS

2019-2022 "Inovative solutions in catalytic processes for use in the pharmaceutical industry"
European Social Fund consortium grant, *project co-leader*, 830.000 €
-project starts in September 2019

2019-2021 "Asymmetric organocatalytic strategies for the synthesis of privileged chiral
benzothiazole cores"
Programme "Cogito" Hubert Curien, with prof. Géraldine Masson, Institut de Chimie
des Substances Naturelles, 2.500 €

2018-2022 "New Strategies for the Synthesis of Tetrasubstituted Chiral Centers: Asymmetric
Counteranion-Directed Catalysis"
Croatian Science Foundation start-up grant, 135.000 €

2018-2020 "New strategies for the asymmetric construction of quaternary stereogenic centers
found in natural products" – Chinese-Croatian bilateral project, with prof. Shu-Li You,
Shanghai Institute of Organic Chemistry, 10.000 €

2015-2016 "Sustainable methodologies for drug synthesis: Inspirations from Nature"
Abbvie, 8.000 €

2015-2017 "Sustainable methodologies enabling asymmetric synthesis of privileged cores of
natural products" – Chinese-Croatian bilateral project, with prof. Shu-Li You, Shanghai
Institute of Organic Chemistry, 10.000 €

AWARDS

- 2017 Thieme Chemistry Journals Award – presented every year to up-and-coming researchers worldwide who are in the early stages of their independent academic career
- 2015 "Vladimir Prelog" award – presented to young researchers up to 36 years old for the results obtained in the field of organic chemistry

COURSES

- 2017– postgraduate course "Asymmetric Organocatalytic Transformations"
University of Rijeka, Croatia

SELECTED PUBLICATIONS

1. Glavač, D.; Zheng, C.; Dokli, I.; You, S.-L.; **Gredičak, M.*** "Chiral Brønsted Acid Catalyzed Enantioselective aza-Friedel–Crafts Reaction of Cyclic α -Diaryl N-Acyl Imines with Indoles" *J. Org. Chem.* **2017**, 82, 8752–8760.
2. Glavač, D.; **Gredičak, M.*** "Organocatalytic Asymmetric Transformations of 3-Substituted 3-Hydroxyisoindolinones" *Synlett* **2017**, 28, 889–897.
3. Suć, J.; Dokli, I.; **Gredičak, M.*** "Chiral Brønsted Acid-Catalysed Enantioselective Synthesis of Isoindolinone-Derived N(acyl),S-Acetals" *Chem. Commun.* **2016**, 52, 2071–2074.
4. Dokli, I.; **Gredičak, M.*** "Mechanochemical Ritter Reaction: A Rapid Approach to Functionalized Amides at Room Temperature" *Eur. J. Org. Chem.* **2015**, 12, 2727–2732.
5. Wolstenhulme, J. R.; Cavell, A.; **Gredičak, M.**; Driver, R. W.; Smith, M. D. "A cation-directed two-component cascade approach to enantioenriched pyrroloindolines" *Chem. Commun.* **2014**, 50, 13585–13588.
6. Knipe, P. C.; **Gredičak, M.**; Cernijenko, A.; Paton, R. S.; Smith, M. D. "Phase-transfer-catalysed synthesis of pyrroloindolines and pyridoindolines by a hydrogen-bond-assisted isocyanide cyclization cascade" *Chem. Eur. J.* **2014**, 20, 3005–3009.