Research from the EuCheMS Organic Division

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Dear Colleagues!

It is my great pleasure to present this special issue compiling the research from members of the EuCheMS Division on Organic Chemistry. The Organic Division has established itself as a very lively one, especially promoting the careers of young researchers. In this regard, our prime event is the annual “Young Investigators Workshop”, which offers early career investigators the option to get in touch and network with their colleagues encountering similar challenges in their academic lives. It is my great pleasure that many young researchers contributed to this special issue. You should also memorize the names of the corresponding authors of these articles, since they will be amongst the researchers leaving significant footprints within the field in the forthcoming years.

We are sure you will enjoy reading this issue covering some of the exciting research carried out in the European Organic Chemistry community spanning a broad range of different areas of organic chemistry. The issue starts with an interesting new method to form seven-membered rings by arene–ynamide cyclization, from the laboratory of Nuno Maulide.

Then, we are moving to carbohydrate chemistry with contributions from Christian Stanetty and Maris Turks, the former reporting the synthesis of methyl glycosides via Fischer glycosylation, the latter on the diastereoselective aza-Michael addition for the synthesis of carbohydrate-derived spiropiperazinones. Also, the next contribution from Martin Kotora reports a stereoselective reaction, this time an asymmetric allylation of benzaldehyde and aldol addition to acetophenone. Furthermore, an exo-selective Diels–Alder reaction to access trans-clerodanes is reported by Lise-Lotte Gundersen.

Moving to heterocyclic chemistry leads us to the contributions of Gianluca Maria Farinola, the current president of the EuCheMS Organic Division, who reports on the synthesis of novel diketopyrrolopyrrole-based dyes, and the one of Nuno M. M. Moura showing us an approach to access new porphyrinoids. The formation of persistent organic diradicals from *N,N'*-diphenyl-3,7-diazacyclooctanes was investigated in an interesting contribution by Adolf Gogoll.

Inese Mierina takes us to a medicinal chemistry subject showing an alternative way to analogues of avenanthramides and investigating their antiradical activity.

We are then moving to organometallic chemistry with three contributions from Karl Kirchner. The first two show us the synthesis of new metal complexes: the synthesis of taddol-based chiral group six PNP pincer tricarbonyl complexes, and the synthesis of bis- and tris-carbonyl Mn(I) and Re(I) PNP pincer complexes. In his third contribution, we find the application of metal catalysis for a chemoselective transfer hydrogenation of aldehydes in aqueous media catalyzed by a well-defined iron(II) hydride complex. Finally, it is my honour to close this special issue with a report on the rhodium-catalyzed direct alkylation of benzylic amines using alkyl bromides as olefin precursors.

I am sure you will find all these contributions of high interest and quality, and I hope you will enjoy reading this issue.

Many greetings!

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