

Molecular Systems Combining Porphyrinoids and N-Heterocyclic Carbenes

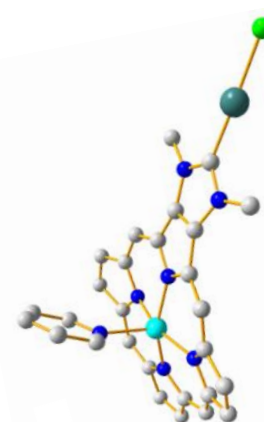
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Porphyrins and N-heterocyclic carbenes (NHCs) are both relevant ligands in the field of organometallic chemistry. Despite evident structural differences, porphyrins and NHCs have a lot in common such as their ability to form strong metal-ligand bonds and their use in catalysis, materials science and biomedicine. During the last decade, several molecular systems combining porphyrins and NHC ligands were reported in the literature.¹

Along this talk, relevant examples where NHC ligands are either axially bonded to metalloporphyrins or covalently attached to the porphyrin cores will be presented. Structural diversity, electronic interplay between porphyrins and NHCs and some relevant applications in catalysis and biomedicine will notably be described. Finally, molecular systems combining NHCs with other original porphyrinoids such as N-confused porphyrins, subporphyrins and norcorroles will also be presented.



1. J.-F. Longevial, C. Rose, L. Poyac, S. Clément, S. Richeter, *Eur. J. Inorg. Chem.* **2021**, 776-791

Curriculum Vitae. Sébastien Richeter completed his PhD in 2003 with Dr. H. J. Callot and Dr. R. Ruppert at the University of Strasbourg. After a postdoctoral position with Pr. J. Rebek Jr. at the Scripps Research Institute (La Jolla, USA), he was appointed as Lecturer at the University of Montpellier (France) in 2004. His current research topics include porphyrins and other π -conjugated molecules for materials sciences, biomedical applications and catalysis.