



**UNIVERSITÀ
DEGLI STUDI
DI TRIESTE**

Dipartimento di Scienze Chimiche e Farmaceutiche

AVVISO DI SEMINARIO

**Prof. You-Quan Zou
Wuhan University**

**Construction of
Metal-Organic Supramolecular
Containers Based
on BINOL Backbone**

**Giovedì 13 Luglio 2023 ore 12.00
Aula A2 - III piano – C11**

Tutti gli interessati sono invitati a partecipare.

Il Direttore
Prof. Paolo Tecilla



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Coordination-driven self-assembly enables the rapid and efficient construction of intricate and functional architectures, which has fascinated chemists for many years. In the context, many metal-organic containers show a variety of applications, including molecular recognition, gas sequestration, chirality sensing, guest separation, catalysis, and stabilization of reactive species. In particular chiral supramolecular assemblies not only have proved themselves as useful tools to understand the origin of biological homochirality, but also open new avenues for chemists to approach chiral sensing and asymmetric transformation. In this talk, I will discuss three kinds of metal-organic supramolecular containers (Helicate, Tetrahedron and Rhombohedron) assembled from BINOL (1,1'-Bi-2-naphthol).



You-Quan Zou completed his Ph.D. studies in 2014 under the supervision of Professor Wen-Jing Xiao at Central China Normal University. From November 2014 to October 2017 he worked as an Alexander von Humboldt postdoctoral fellow with Professor Thorsten Bach at the Technische Universität München. He then took up a SAERI postdoctoral position with Professor David Milstein at the Weizmann Institute of Science from November 2017 until October 2019. He has continued to work as a SAERI research associate with Professor Jonathan Nitschke at the University of Cambridge till April 2021. In July 2021, You-Quan

accepted an appointment as a professor at the Wuhan University. He has won many awards, e.g., Thieme Chemistry Journals Award (2022), Alexander von Humboldt Fellow (2016), Reaxys PhD Prize Finalist (2014). His current research interests focus on biomaterials and medicinal chemistry.