

Giovedì 28 Settembre 2023  
alle ore 11.00

presso AULA 2 dell'Edificio F  
Area della Ricerca CNR di Firenze  
Via Madonna del Piano 10, Sesto Fiorentino

la Dott.ssa Vanessa R. Landaeta  
ICCOM Firenze

terrà il seguente seminario:

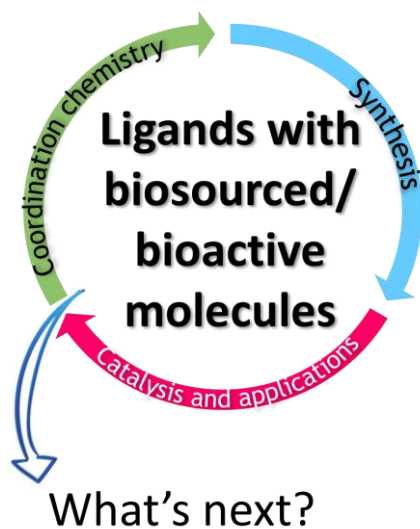
"Adventures with phosphines, nitrogen heterocycles and more:  
going beyond coordination chemistry"

Si invitano tutti gli interessati a partecipare.

Dr. Claudio Sangregorio  
Direttore ICCOM

## Short Abstract:

The influence of the ligand in the catalytic performance of homogeneous catalysts has been a topic of study among coordination chemists for years and has become the central point connecting the different areas of my research so far, going beyond their coordination chemistry or the catalytic potential of their complexes. In view of the beginning of this new chapter as researcher at ICCOM, in this seminar I would like to resume my previous results in coordination/organometallic chemistry and homogeneous catalysis and introduce the areas of interest which will define my future research activities. Spanning from reduction to oxidation, from noble metals to base metals, from transition metal-based catalysts to organocatalytic processes, from phosphines to other phosphorus and nitrogen-based ligands, and across four different countries, I will try to tell the story that sets the basis for upcoming projects and might shape research collaborations within the institute and abroad. A key aspect of these is the study of biosourced or bioactive molecules either as starting materials or building blocks for new scaffolds, as spectator or participating ligands, for the transformation of greenhouse gases or to address the ever-growing energy demands of the modern world.



## Biographic sketch

Vanessa R. Landaeta graduated in chemistry from Universidad Simon Bolivar, Caracas (Venezuela) and received her doctoral degree from the Instituto Venezolano de Investigaciones Científicas (IVIC) with a project developed in collaboration between IVIC and Consiglio Nazionale delle Ricerche. After a postdoctoral Marie Curie research training at CNR under the supervision of Maurizio Peruzzini, she started her independent research career at Universidad Simon Bolivar, where she subsequently became full professor in 2018. After a period as guest researcher with Antonio Togni (ETH Zurich, Switzerland), she joined the Wolf group in Regensburg from 2020 to 2023 as a postdoctoral researcher. She is now resuming her career as independent researcher at the Istituto di Chimica dei Composti Organometallici (ICCOM-CNR) in Florence, Italy. Her research interests include inorganic/organometallic chemistry, ligand design, and homogeneous catalysis.