



## **Visiting Professor Program Academic Year 2024/2025**

**TEACHING COMMITMENT:** 12 hours

**COURSE TITLE**

**New Perspectives in Organometallics-Guided Chemical Synthesis**

**TEACHING PERIOD**

1st term

**SCIENTIFIC AREA**

Organic Chemistry

**LANGUAGE USED TO TEACH**

English

**COURSE SUMMARY**

Use of Metallated Carbenoids in Chemical Synthesis;  
Homologation of boron-centered platforms;  
Radical homologations;  
Assembly Line Synthesis;  
Synthesis of Natural Products.

**LEARNING OBJECTIVES**

At the end of this course students will be able to understand in details organometallic reactions (polar and transition metal catalyzed), structural modification for implementing reactivity, stereochemically defined synthesis of olefines, activation of inert substrates, homologation reactions, rearrangements reactions, natural products total synthesis, drug synthesis.

### **OTHER ACTIVITIES BESIDES THE COURSE**

Seminar on the own research activity of the Visiting Professor for PhD, postdocs and the academic staff of the Department.

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### **VISITING PROFESSOR PROFILE**

Internationally recognized expert in chemical synthesis with carbenoid-type and organometallic reagents.

Documented experience in stereoselective synthesis.

Excellent track-record in organometallic chemistry.

Publication in highly reputed journals.

### **CONTACT REFERENT**

Vittorio Pace

vittorio.pace@unito.it