

The Department of Chemistry “Ugo Schiff” and the Magnetic Resonance Center of the University of Florence are pleased to welcome Prof. Lisandro J. Gonzalez from the University of Rosario, Argentina.

Prof. Gonzalez will share his expertise on the molecular basis of antibiotic resistance with students of the Master’s course in Chemical Sciences and with young researchers enrolled in the International Doctorate in Structural Biology.

During Prof. Gonzalez's stay, two lessons will be held, focusing on the role of zinc-dependent enzymes in antibiotic resistance, and on the methodologies used to study metallo-beta-lactamases in solution, in physiologically relevant environments, and in living cells. These lessons are part of the “Structure and Function of Metalloproteins” course within the Master’s program in Chemical Sciences (Chemistry of Biological Molecules curriculum) but will also be open to PhD students. The lessons will take place in the Blocco Aule on 30 April and 7 May 2025, at 9:00 AM.

In addition, a series of practical sessions will be organized in the biological laboratories of the Magnetic Resonance Center dedicated to advanced students of the International Doctorate in Structural Biology. These hands-on sessions will demonstrate advanced techniques for the cellular localization of zinc enzymes, offering students direct experience with experimental approaches in bioinorganic chemistry and structural biology.

Prof. Gonzalez will also be available for open discussions and guided literature reviews with interested students. These sessions will offer an opportunity for in-depth exploration of key topics related to zinc-dependent enzymes and antibiotic resistance. Students will be encouraged to critically analyse recent scientific publications, discuss emerging trends in the field, and refine their research skills under expert guidance.