



UNIVERSITÀ DI PAVIA
Dipartimento di
Biologia e Biotecnologie
"Lazzaro Spallanzani"

Computational design of efficient enzymes through coevolution and correlation-mediated allosteric networks

Enzymes are the most efficient, specific and selective catalysts known up to date. Despite the enzyme advantages, not all synthetic processes present a natural enzyme to catalyze and accelerate the reactions. Hence, the design of new stable enzymes for those processes where no biocatalyst is known represents a major challenge for protein engineering and a stringent test to understand how natural enzymes work. In addition to that, the ability of designing specific active enzymes is of great interest due to the potential applications in biotechnology, biomedicine and industrial processes.

Wednesday
April 15th, 2026
14:00 - 15:00
Aula Jucci

Silvia Osuna

Institute of Computational
Chemistry and Catalysis
and Department of
Chemistry, University of
Girona, Spain.

