

UNIVERSITY OF NAPOLI "FEDERICO II"

POLYTECHNIC AND SCIENCE SCHOOL

Department of Chemical Sciences

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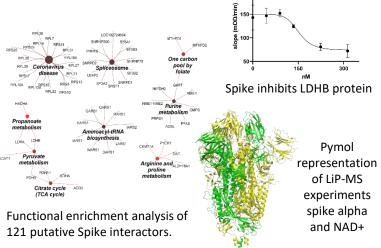
Ph.D. School in Chemical Sciences (37° Cycle)

Protei extract

Second year activity

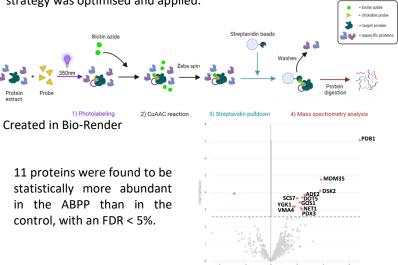
SARS-CoV-2

SARS-CoV-2 is the causative agent of COVID-19 disease; its genome encodes 4 structural proteins, including Spike (S). To elucidate the molecular mechanisms in which the Spike protein is involved, a functional proteomics approach was performed. Among the Spike interactors, we found LDHB, and their interaction was studied in detail.



Plasmodium falciparum

P. falciparum is one of five different species of Plasmodium that cause malaria infection in humans. Among all antimalarial drugs, Plasmodione are redox-active agents that are highly effective. To identify the protein targets of plasmodium, an activity-based protein profiling (ABPP) strategy was optimised and applied.



Ph.D. Student: Vittoria Monaco

Title Study of the molecular mechanisms relevant to the interactions between pathogens and hosts