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POLITECNICA
DELLE MARCHE

RESEARCH AREA: VIRUS

TITLE: Familial Hypercholesterolemia and COVID-19: investigation into the role of cholesterol homeostasis in viral budding

Principal investigator: Prof. Michele CIANCI, m.cianci@univpm.it, tel 071 2204686, Department of Agricultural, Food and Environmental Sciences

UNIVPM Research Group: Biochemical and Biotechnological Laboratory.

Research activity description: Early evidence from clinical lipid profile of the patients with COVID-19 infection in Wenzhou (China), showed that curves of serum cholesterol (TC), HDL-cholesterol and LDL-cholesterol have similar profiles. Interestingly, the levels of both TC and HDL were inversely associated with the severity of SARS-CoV-2 infection. Our aim is to investigate the role of cholesterol in viral particle assembly.

Collaborators: Department of Life and Environmental Sciences, Marche Structural Biology Center, UNIVPM; Department of Materials, Environmental Sciences and Urban Planning (SIMAU), Division of Bioinformatics and Biochemistry, UNIVPM; Experimental and Clinical Medicine, Neuroscience and Cellular Biology, UNIVPM; Scienze Cliniche Specialistiche ed Odontostomatologiche, Biochemistry and Biotechnology Lab, UNIVPM.

