

AVAILABLE POSITIONS

Principal Investigator	LUIGI NEZI
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PROJECT INFO	
Title of the proposed project:	Dissecting host-microbial metabolic interaction to improve immune response in patients with colorectal cancer
Short description of the project	We have extensively characterized the mucosal microbiome and immune infiltrate associated with tumor tissues in a large, prospective cohort of patients with colorectal cancer. In this project, we will integrate metagenomics and metabolomics with microbiology and immunology, to isolate potential oncobionts from cancer patients and experimentally validate their role in colorectal cancer progression and response to therapy.
Main research area for the project	Microbiology and metagenomic
Second research area for the project	Metabolism and immunology
3 key words for the project	Microbiome, colorectal cancer, metabolism

LAB INFO	
Main topic/s of the lab	Microbiome modulation of cancer response to immunotherapy
Short description of the lab activity	We conduct clinical studies on cancer patients undergoing immunotherapy and integrate metagenomic, microbiology, immunology, computational biology and bioengineering approaches to dissect mechanisms of resistance.
Recent bibliography	PMID: 41894555, PMID: 39939548, PMID: 39481388, PMID: 37131219, PMID: 36347862
Group composition	2 computational post docs, 1 wet post doc, 1 bioengineer, 2 PhD student, 1 research assistant
Institutional page link	
Lab website link	https://www.research.ieo.it/research-and-technology/principal-investigators/luigi-nezi/