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His research focuses on tumor immunology and tumor microenvironment dynamics, with particular expertise in organ-on-chip technology, advanced in vitro models (organoids, spheroids), and the roles of IL-33, eosinophils, and basophils in cancer. He is co-founder of the Italian Society for Organ-on-Chip (SIOoC) and coordinates the Rome Technopole Open ISyOnChipLab (Immune System-on-Chip Laboratory) at ISS. He serves as Associate Editor for several journals, including *Frontiers in Immunology*, *Frontiers in Oncology*, and the *Journal of Translational Medicine*, and as Editorial Board Member for *Scientific Reports*, *Oncoimmunology*, *BMC Cancer*, and *Cells*, and has been a guest editor for special issues in *iScience*, *Cancer Letters*, and *Seminars in Cancer Biology*.