

Allegato B

MICHELA VARANI
Curriculum Vitae

Part I – General Information

Full Name	Michela Varani
Spoken Languages	Italian, English

Part II – Education

Type	Year	Institution	Notes
University graduation	2015	University of Tuscia (VT)	Bachelor ’s degree in biology
Post-graduate studies	2018	University of Rome “Sapienza”	Master’s degree in biotechnology
PhD	2022	University of Rome “Sapienza”	PhD in Translational Medicine and Oncology (cum laude)
Licensure	2021	Biologist	Admitted to practice as a biologist in Italy

Part III – Teaching experience

Year	Institution	Lecture/Course
2024	Università di Roma “Sapienza”	Medical, cellular and molecular biotechnologies
2024	Università di Roma “Sapienza”	Biomedical Laboratory Techniques
2023	Università di Roma “Sapienza”	Medical, cellular and molecular biotechnologies
2023	Università di Roma “Sapienza”	Biomedical Laboratory Techniques

Part IV - Society memberships, Awards and Honors

Year	Title
2025	Seal of Excellence HORIZON- MSCA Postdoctoral Fellowships 2024: For the project proposal “BioMedical APplication of Positron Emission Particle tRacking for advanced imaging and disease diagnostics (Bio-MAPPER)” submitted under the Horizon Europe Marie Skłodowska-Curie Actions call HORIZON-MSCA 2024-PF

2024	Best oral presentation at 4th International Congress Imaging Infections and Inflammation, Rome, Italy
2024	Student Travel Award from World Molecular Imaging Society: for the high-grade abstract submitted at WMIC Annual Meeting (9-13 September, Montreal, Canada).
2024	“Women in Molecular Imaging Network (WIMIN)” Scholar Award from World Molecular Imaging Society: as oral presenters of meritorious scientific paper at WMIC Annual Meeting (9-13 September, Montreal, Canada).
2024	Research grant awarded by Rome Technopole, supported by Next Generation EU, for the development of a new medical device based on Polylactic Glycolic Acid (PLGA) nanoparticles for theranostic applications
2022	AIRC Research Scholarship: awarded by AIRC (Italian Association for Cancer Research), to investigate radiolabelled nanoparticles for advanced cancer therapy, focusing on the design, synthesis, and therapeutic evaluation of nanoparticles for targeted drug delivery
2019	Best Poster Presentation at Third Edition of the “International Congress Imaging Infections and Inflammation”, Rome.

Part V - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2024-2029 (I)	Radiolabelled PLGA-Nanoparticles for therapy of advanced cancer	Investigator Grant AIRC (PI Alberto Signore)	1.000.000 €
2024 (PI)	A new medical device for Polylactiglycolic Acid Nanoparticles for Theranostic Application	Rome Technopole	1.000.000 €
2023 (PI)	Characterization and labelling of IL2 with gallium-68	Research Scholar (University of Rome “Sapienza”)	1.000.000 €
2022 (PI)	Radiolabelled PLGA nanoparticles for advanced cancer therapy	Research Scholar from AIRC (Italian Association for Cancer Research)	1.000.000 €
2017-2022 (I)	Radiolabelled nanoparticles for diagnostic and therapeutic applications in advanced cancer	Investigator Grant AIRC (PI Alberto Signore)	1.000.000 €

Part VI – Research Activities

Keywords	Brief Description
Nuclear medicine	Experienced researcher in molecular imaging, radiopharmaceuticals, and nanomedicine, with a strong background in project coordination, grant writing, and experimental design. Led preclinical and translational
Radiochemistry	
Nanomedicine	

Molecular imaging	research projects focusing on the development of radiolabelled biomolecules (e.g., IL2) and nanoparticle-based theranostic agents for immune and cancer-related applications. Conducted international research in bioorthogonal chemistry and targeted imaging. Proven experience in supervising students, delivering academic seminars, and managing educational programs. Active contributor to clinical trials and multidisciplinary collaborations at the intersection of nuclear medicine, biotechnology, and translational research.
-------------------	--

Part VII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Paper [international]	PMID: 36291729; DOI:10.3390/biom12101522.	PubMed	2022; Vol 12; issue 10	Pag 1522
Paper [international]	PMID: 34834184; DOI:10.3390/pharmaceutics13111769	PubMed	2021; Vol 13; issue 11	Pag 1769
Paper [international]	PMID: 32516917; DOI:10.3390/jcm9061750	PubMed	2020; Vol 9; issue 6	Pag 1750
Paper [international]	PMID: 31324064; DOI:10.3390/cancers11070967.	PubMed	2019; Vol 11; issue 7	Pag 967
Paper [international]	PMID: 32553788 DOI:10.1016/j.jconrel.2020.06.007	PubMed	2020; Vol 321	Pag 1-12

Total Impact factor (mean of 5 years IF)	108,41
Total number of published papers (Scopus)	29
Total Citations (Scopus)	345
Average Citations per Product (Scopus)	11.9
Hirsch (H) index (Scopus)	11
Normalized H index*	1.9

*H index divided by the academic seniority.

Part VIII– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

- 1) Varani M, Bentivoglio V, Lauri C, Ranieri D, Signore A. Methods for Radiolabelling Nanoparticles: SPECT Use (Part 1). *Biomolecules*. 2022 Oct 20;12(10):1522. doi: 10.3390/biom12101522. PMID: 36291729; PMCID: PMC9599158. **IF 5.4**
- 2) Varani M, Campagna G, Bentivoglio V, Serafinelli M, Martini ML, Galli F, Signore A. Synthesis and Biodistribution of 99mTc-Labeled PLGA Nanoparticles by Microfluidic Technique. *Pharmaceutics*. 2021 Oct 22;13(11):1769. doi: 10.3390/pharmaceutics13111769. PMID: 34834184; PMCID: PMC8621482. **IF 5.5**
- 3) Varani M, Galli F, Capriotti G, Mattei M, Cicconi R, Campagna G, Panzuto F, Signore A. Theranostic Designed Near-Infrared Fluorescent Poly (Lactic-co-Glycolic Acid) Nanoparticles and Preliminary Studies with Functionalized VEGF-Nanoparticles. *J Clin Med*. 2020 Jun 5;9(6):1750. doi: 10.3390/jcm9061750. PMID: 32516917; PMCID: PMC7355639. **IF 3.4**
- 4) Varani M, Auletta S, Signore A, Galli F. State of the Art of Natural Killer Cell Imaging: A Systematic Review. *Cancers (Basel)*. 2019 Jul 9;11(7):967. doi: 10.3390/cancers11070967. PMID: 31324064; PMCID: PMC6678345. **IF 4.9**
- 5) Montanari E, Mancini P, Galli F, Varani M, Santino I, Coviello T, Mosca L, Matricardi P, Rancan F, Di Meo C. Biodistribution and intracellular localization of hyaluronan and its nanogels. A strategy to target intracellular *S. aureus* in persistent skin infections. *J Control Release*. 2020 Oct 10;326:1-12. doi: 10.1016/j.jconrel.2020.06.007. Epub 2020 Jun 15. PMID: 32553788. **IF 10.6**