



SCIMECA MANUEL, PhD
Associate Professor (MED/26-A)
manuel.scimeca@uniroma2.it
Date of Birth: May 23, 1983
Nationality: Italian

SCIENTIFIC ACTIVITY

Bibliometric Indicators (Scopus):

- Total publications: 157
- H-index: 32
- Total citations: 3,552

National Scientific Qualification (ASN) – Full Professor, 06/MEDS-26

World's Top 2% Scientist (2025) – *Stanford University*

Sppeaker at 25 national and international conferences

EDUCATION AND TRAINING

- 2015 – PhD in *Medical Biotechnology and Translational Medicine*, University of Rome “Tor Vergata”
- 2011 – MSc in *Medical Biotechnology*, University of Rome “Tor Vergata”
- 2009 – BSc in *Cellular and Molecular Biology*, University of Rome “Tor Vergata”

RECENT PROFESSIONAL EXPERIENCE

- **2025 – present:** Associate Professor, University of Rome “Tor Vergata”, Department of Experimental Medicine (MED/26-A)
- **2022 – 2025:** Researcher, University of Rome “Tor Vergata”, Department of Experimental Medicine (MED/26-A)
- **2019 – present:** Adjunct Professor, *Saint Camillus International University of Health and Medical Sciences*
- **2017 – present:** Adjunct Professor, *San Raffaele Telematic University*

TEACHING ACTIVITIES

University of Rome “Tor Vergata”

- Coordinator – Master's Program in Pathological Anatomy Techniques, Molecular Pathology and Digital Pathology
- Course Units:
 - 8059913 – Practical Medicine III (Medicine and Surgery) – 1 CFU
 - 8059863 – Clinical Practice IV (Medicine and Surgery) – 1 CFU
 - 8058802 – Pathological Anatomy I (Biomedical Laboratory Techniques) – 1 CFU
 - 8058793 – Clinical Biochemistry, Clinical Molecular Biology and Applied Statistics – 1 CFU
 - 8058799 – Microbiology and Clinical Microbiology (Biomedical Laboratory Techniques) – 1 CFU

Saint Camillus International University of Health and Medical Sciences

- Foundations of Histopathology / Pathological Anatomy (MED/04-A) – 4 CFU

San Raffaele Telematic University, Rome

- 0672204MED08 – Musculoskeletal Disorders and Physical Exercise – 2 CFU

GRANT

Principal Investigator (PI):

- *INAIL BRIC 2022 (ID#68)* – “Carcinogenic potential of asbestos fibers, nanoparticles and heavy metals in a working-age population: from subcellular analysis to artificial intelligence” (€120,000; 2022–2024)
- *PRIN 2022 (Italian Ministry of University and Research)* – “Novel mediators, predictive biomarkers and therapeutic targets for breast cancer metastatic disease” (€199,000; Grant 2022TXHFSA)

Deputy Coordinator, Spoke 1 – *HEAL ITALIA Partnership* (PE6, PNRR Mission 4, Component 2 – NextGenerationEU; €7,350,000; PI: Prof. Candi)

Co-Principal Investigator (Co-PI):

- *International Exchanges 2022 – Cost Share Program* – “Transmission electron microscopy of archived esophageal cancer biopsies with asbestos exposure” (\$12,000; Co-PI: D. Middleton, Queen’s University Belfast; 2022–2023)
- *Life Science – Advanced Diagnostics (HLS-DA)* – Italian Ministry of Health, *Complementary Plan to PNRR* (€600,000; PI: Prof. Alessandro Mauriello)

Collaborator:

- *Consolidate the Foundation (2015)* – “Vitamin D crosstalk between bone and muscle in the elderly” (€18,000; PI: Prof. Umberto Tarantino)
- *Horizon 2020 (GA No. 833456)* – “Cybersecurity framework for reliable and trusted digital service chains” (€4,684,700; PI: A. Duzha, MAGGIOLI S.p.A.)
- *Beyond Borders (2019)* – “ZNF750 transcription factor in breast and prostate cancer progression” (€16,000; PI: Prof. Elena Bonanno)
- *INAIL BRIC 2019 (ID#58)* – “Ultrastructural and elemental analysis of asbestos and heavy metal bioaccumulation in human tumors” (€120,000; PI: Prof. Elena Bonanno)
- *Horizon 2020 (GA No. 101017453)* – “Knowledge at your fingertips: clinical knowledge for humanity” (€8,479,900; PI: Prof. Vittorio Colizzi)

SPIN-OFFS AND PATENTS

- **Co-founder**, *TMALab S.r.l.*, University of Rome “Tor Vergata”
- **Co-founder**, *Orchideallab S.r.l.*
- **Patent (pending)**:
Pentraxin 3 (PTX3) protein for the treatment and in vitro diagnosis of osteoporosis
(Brev/gc [A18256-00], IT 102017000081653; Inventors: Dr. Manuel Scimeca, Prof. Umberto Tarantino)

AWARDS

- **2016**: Best Project Award – *Italian Group for the Study of Severe Osteoporotic Disorders*: “*The Role of Heavy Metals Accumulation in Osteoporosis*”
- **2017**: Best Scientific Contribution – *ORTOMED Congress 2017*: “*Cellular and Molecular Profile of Sarcopenia in Osteoporotic and Osteoarthritic Patients*”
- **2021**: *USERN Award Nominee* – Top-rank Q1 publications (first author)
- **2022**: *ERNST RUSKA Award Nominee 2023* – *Pioneering Studies in Transmission Electron Microscopy*

SCIENTIFIC SOCIETIES MEMBERSHIP

- **Since 2025**: Society for Environmental Geochemistry and Health (SEGH)
- **Since 2022**: Italian Society for Translational Research and Health Professions (SIRTEPS)
- **2021–2022**: Italian Society of Clinical Pathology and Laboratory Medicine (SIPMeL)
- **2018–2022**: Italian Society of Pathology (SIAPEC)
- **2018–2020**: European Society of Pathology (ESP)

SELECTED PUBLICATIONS (LAST 5 YEARS)

- **Servadei F, Scimeca M, Palumbo V, et al.** *Aging and Sex Modify the Risk of Carotid Plaque Thrombosis Related to Dyslipidemic Profile.* **Stroke.** 2025;56(10):2879–2887. doi:10.1161/STROKEAHA.125.051754 – *equally first author*
- **Pecorari R, Mancini M, Smirnov A, ... Scimeca M, et al.** *p63 and ZNF148 cooperate to regulate head and neck squamous cell carcinoma.* **PNAS.** 2025;122(28):e2500579122. doi:10.1073/pnas.2500579122
- **Camaioni A, ... Scimeca M, et al.** *Silica encapsulation of ZnO nanoparticles reduces their toxicity for cumulus cell–oocyte complex expansion.* **Part Fibre Toxicol.** 2021;18(1):33. doi:10.1186/s12989-021-00424-z
- **Mauriello A, Scimeca M, et al.** *Thromboembolism after COVID-19 vaccine in patients with preexisting thrombocytopenia.* **Cell Death Dis.** 2021;12(8):762
- **Servadei F, Scimeca M, et al.** *Risk of carotid plaque instability in women with metabolic syndrome and hypertriglyceridemia.* **Cardiovasc Diabetol.** 2021;20(1):98

FULL PUBLICATION LIST:

<https://pubmed.ncbi.nlm.nih.gov/?term=scimeca+manuel+>

“I hereby declare that all information provided is true and accurate, in compliance with Articles 46 and 47 of Italian Presidential Decree No. 445/2000.”

Date 02/10/2025

Signature