ROSARIO CALTABIANO

Full Professor of Anatomic Pathology

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Nationality: Italian | **DOB:** 01/10/1973

ACADEMIC & PROFESSIONAL EXPERIENCE

01/03/2024 – Present
Full Professor of Anatomic Pathology (MED/08)
Department of Medical, Surgical Sciences and Advanced Technologies "G.F. Ingrassia", University of Catania

16/10/2015 – 29/02/2024
Associate Professor of Anatomic Pathology (MED/08)
Department of Medical, Surgical Sciences and Advanced Technologies "G.F. Ingrassia", University of Catania

29/12/2008 – 15/10/2015
University Researcher / Assistant Professor (MED/08)
Department of Medical, Surgical Sciences and Advanced Technologies "G.F. Ingrassia", University of Catania

CLINICAL & CARE ACTIVITIES

01/01/2009 – Present
Consultant Pathologist (Medical Executive)
Anatomic Pathology Unit, "Gaspare Rodolico" Hospital — University Hospital Complex "Policlinico - Vittorio Emanuele", Catania

Integrated healthcare activity pursuant to Art. 5 of Legislative Decree 517/99 (Delibera n. 465 del 23.07.2009). High-specialization diagnostic activities in Dermatopathology, Neuropathology, Soft Tissue and Bone Pathology, and Head & Neck Pathology.

16/04/2026 – Present
Head of Interdepartmental Program
"Morphological, Immunohistochemical and Molecular Diagnosis in Inflammatory and Neoplastic Skin Pathology"

Appointed by A.O.U. Policlinico G. Rodolico - San Marco (Resolution No. 1034 of 10.04.2026).

28/05/2026 – Present
Director of the Specialization School in Anatomic Pathology
University of Catania

Appointed by Rectoral Decree (D.R. 1898 Prot. 244965). Responsible for post-graduate medical training and curriculum development.

EDUCATION AND POST-GRADUATE TRAINING

24/10/2007
Specialization in Anatomic Pathology
University of Catania, Faculty of Medicine and Surgery
Grade: **70/70 cum laude**

25/10/2002
Specialization in Dermatology and Venereology
University of Catania, Faculty of Medicine and Surgery
Grade: **70/70 cum laude**

1st Session 1999
State Medical Licensing Examination
University of Catania

Qualification to practice as Physician-Surgeon (Licensed Member of the Order of Physicians of Catania).

16/07/1998
Degree in Medicine and Surgery (M.D.)
University of Catania, Faculty of Medicine and Surgery
Grade: **110/110 cum laude**

July 1992
High School Diploma (Maturità Classica)
Liceo Classico "Gulli e Pennisi", Acireale (CT)
Grade: **60/60**

TEACHING ACTIVITIES

Teaching Assignments at the University of Catania:

- **Degree Course in Medicine and Surgery:** Integrated Course "Laboratory Medicine and Integrated Diagnostics - Anatomic Pathology" (2 ECTS/CFU, AY 2009–2011, 2014–2015); Main Official Course in "Anatomic Pathology" (8 ECTS/CFU, AY 2015–2016 to present).
- **Degree Course in Dentistry and Dental Prosthetics:** Adjunct Professor of Anatomic Pathology (AY 2007–2008); Laboratory Diagnostics - Anatomic Pathology (4 ECTS/CFU, AY 2008–2010); Main Course in "Anatomic Pathology" (6 ECTS/CFU, AY 2011–2012 to present).
- **Degree Course in Nursing:** Integrated Course in General Pathology, Clinical Microbiology, Anatomic Pathology (2 ECTS/CFU, AY 2009–2011).
- **Degree Course in Biomedical Laboratory Techniques:** Integrated Course in Cytopathological Diagnostic Techniques and Molecular Biology (2 ECTS/CFU, AY 2009–2011).
- **Degree Course in Diagnostic Technical Health Professions:** Technical Sciences of Medicine and Laboratory (6 ECTS/CFU, AY 2012–2013).
- **Medical Specialization / Residency Schools:** Teaching modules in Anatomic Pathology for Dermatology & Venereology (1 ECTS/CFU, AY 2009–present); Urology (1 ECTS/CFU, AY 2014–present); Neurosurgery (2 ECTS/CFU, AY 2014–present).
- **PhD Doctoral Programs (Faculty Academic Board Member):** Member of the Academic Board for the PhD in "Biology, Human Genetics and Bioinformatics: Cellular and Molecular Bases of the Phenotype" (AY 2009–2013); Member of the Academic Board for the PhD in "Translational Biomedicine" (AY 2013–present).

INSTITUTIONAL ROLES & PROFESSIONAL MEMBERSHIPS

- **Director:** Specialization School in Anatomic Pathology, University of Catania (from May 2026).
- **Faculty Board Member:** PhD Program in Translational Biomedicine, University of Catania.
- **Member:** Italian Society of Anatomic Pathology and Diagnostic Cytopathology (SIAPEC-IAP).
- **Member:** European Society of Pathology (ESP).
- **Peer Reviewer:** Regular reviewer for several international peer-reviewed journals in the fields of pathology, oncology, and dermatology.

RESEARCH LINES & AREAS OF INTEREST

- **Dermatopathology & Skin Neoplasms:** Morphological, immunohistochemical, and molecular characterization of melanoma, non-melanoma skin cancers, and inflammatory dermatoses.
- **Neuropathology & CNS Tumors:** Molecular profiling, prognostic biomarkers, and integrated diagnostic approaches in diffuse gliomas, ependymomas, and peripheral nerve sheath tumors (Schwannomatosis, NF2).
- **Head & Neck Pathology:** Diagnostic and prognostic biomarkers (p63, MMPs) in head and neck squamous cell carcinomas and odontogenic lesions.
- **Translational Oncology & AI in Pathology:** Evaluation of microRNA expression, biomarker discovery (MTAP, CDKN2A/B), and application of artificial intelligence / large language models in diagnostic pathology.

FULL LIST OF SCIENTIFIC PUBLICATIONS

1. **Fibronectin upregulation in human temporomandibular joint disks with internal derangement.** Leonardi R, Michelotti A, Farella M, Lanzafame S, Caltabiano R. *J Craniofac Surg.* 2004;15(6):1056-62. **IF: 0.676**
2. **p63 overexpression associates with poor prognosis in head and neck squamous cell carcinoma.** Lo Muzio L, Santarelli A, Rubini C, Pieramici T, Trevisiol L, Carinci F, Leonardi R, De Lillo A, Lanzafame S, Bufo P, Piattelli A, Caltabiano R. *Hum Pathol.* 2005;36:187-194. **IF: 2.806**
3. **Collagenase-3 (MMP-13) is expressed in periapical lesions: an immunohistochemical study.** Leonardi R, Loreto C, Caltabiano R. *Int Endod J.* 2005;38:297-301. **IF: 2.273**
4. **p63 expression in odontogenic cysts.** Lo Muzio L, Santarelli A, Rubini C, Pieramici T, Fior A, Trevisiol L, Carinci F, Leonardi R, Bufo P, Lanzafame S, Piattelli A, Caltabiano R. *Int J Oral Maxillofac Surg.* 2005;34:668-673. **IF: 1.359**
5. **About a case of GIST occurring during pregnancy with immunohistochemical expression of epidermal growth factor receptor and progesterone receptor.** Lanzafame S, Minutolo V, Minutolo O, Marino B, Gagliano G, D'Asta S, Caltabiano R. *Pathol Res Pract.* 2006;202:119-123. **IF: 1.562**
6. **Heme oxygenase 1 expression in postischemic reperfusion liver damage: effect of L-arginine.** Lanteri R, Acquaviva R, Di Giacomo C, Li Destri G, Vanella L, Santangelo M, Lanzafame S, Di Cataldo A, Caltabiano R. *Microsurgery.* 2006;26(1):25-32. **IF: 2.421**
7. **Thyroid transcription factor 1 (TTF-1) and p63 expression in two primary thyroid papillary carcinomas of branchial cleft cysts.** Lanzafame S, Puzzo L, Cappellani A, Caltabiano R. *Virchows Arch.* 2006;449:129-133. **IF: 2.560**

8. **Specific alterations of microRNA transcriptome and global network structure in colorectal carcinoma after cetuximab treatment.** Ragusa M, Majorana A, Statello L, Maugeri M, Salito L, Barbagallo D, Guglielmino MR, Duro LR, Angelica R, Biondi A, Di Vita M, Privitera G, Scalia M, Cappellani A, Vasquez E, Lanzafame S, Basile F, Di Pietro C, Purrello M, Caltabiano R. *Mol Cancer Ther.* 2010;9:3396-3409. **IF: 6.107**
9. **Epidermal growth factor receptor and caveolin-1 coexpression identifies adult supratentorial ependymomas with rapid unfavorable outcomes.** Senetta R, Miracco C, Lanzafame S, Chiusa L, Galia A, Stella G, Cassoni P, Caltabiano R. *Neuro Oncol.* 2011;13:176-183. **IF: 5.286**
10. **miRNA profiling in vitreous humor, vitreal exosomes and serum from uveal melanoma patients: Pathological and diagnostic implications.** Ragusa M, Barbagallo C, Statello L, Caltabiano R, Russo A, Puzzo L, Avitabile T, Longo A, Toro MD, Barbagallo D, Valadi H, Di Pietro C, Purrello M, Reibaldi M. *Cancer Biol Ther.* 2015;16(9):1387-96.
11. **A mosaic pattern of INI1/SMARCB1 protein expression distinguishes Schwannomatosis and NF2-associated peripheral schwannomas from solitary peripheral schwannomas and NF2-associated vestibular schwannomas.** Caltabiano R, Magro G, Polizzi A, Praticò AD, Ortensi A, D'Orazi V, Panunzi A, Milone P, Maiolino L, Nicita F, Capone GL, Sestini R, Paganini I, Muglia M, Cavallaro S, Lanzafame S, Papi L, Ruggieri M. *Childs Nerv Syst.* 2017;33(6):933-940.
12. **Beyond Oligodendroglioma: An Integrated Diagnostic Approach to CNS Tumors with Oligodendroglioma-like Morphology in the Molecular Era.** Attanasio G, Caltabiano R, Amato F, Barbagallo GMV, Certo F, Ayan D, Barresi V, Broggi G. *Int J Mol Sci.* 2026;27(16): 7163.
13. **Revisiting diffuse gliomas in the era of precision medicine: Molecular insights and therapeutic implications.** Massimino M, Stella S, Di Grazia G, Tomarchio C, Vitale SR, Martorana F, Pellegriti G, Magro G, Broggi G, Salvatorelli L, Caltabiano R, Manzella L, Vigneri P. *Crit Rev Oncol Hematol.* 2026;227:105511.
14. **Immunohistochemical Loss of MTAP as a Diagnostic and Prognostic Surrogate of CDKN2A/B Homozygous Deletion: A Narrative Review.** Salzano S, Caltabiano R, Palicelli A, Zizzo M, Fabozzi M, Koufopoulos N, Boutas I, Cazzato G, Zanelli M, Broggi G. *Diagnostics (Basel).* 2026;16(13):2069.
15. **Artificial intelligence application in routine pathology: ChatGPT-4.0 and Gemini 2.5 pro performance in detection of MMR-deficiency in colorectal cancer.** Salzano S, Broggi G, Zanelli M, Zizzo M, Fabozzi M, Palicelli A, Koufopoulos N, Boutas I, Cazzato G, Caltabiano R. *Surg Oncol.* 2026;65:102383.