

Prof. Alessandro Mauriello:

curriculum vitae

Professore Ordinario di Anatomia ed Istologia Patologica

Facoltà Medicina e Chirurgia
Università di Roma Tor Vergata".

Direttore
Dipartimento di Medicina Sperimentale
Università di Roma Tor Vergata

Responsabile
UOSD Anatomia Patologica ad indirizzo citopatologico
Policlinico Tor Vergata (PTV), Roma

- Il 9 luglio 1982 si è laureato in Medicina e Chirurgia con la votazione di 110/110 e lode
- Il 10 luglio 1986 ha conseguito la Specializzazione in Anatomia Patologica presso l'Università di Roma "La Sapienza" con la votazione di 70/70 e lode
- Dal settembre 1985 al marzo 1987 Research fellow presso l'Istituto di Patologia dell'Università di Basilea (Svizzera)
- Il 15 aprile 1987 è risultato vincitore del Concorso per Ricercatore Universitario presso l'Università di Roma "Tor Vergata" per il gruppo di discipline n. 65, settore scientifico-disciplinare F06A (MED08) e da questa data presta servizio presso la Cattedra di Anatomia ed Istologia Patologica (Dipartimento di Biopatologia e Diagnostica per Immagini).
- Il 27 luglio 1992 (con decorrenza dal 15 luglio 1991) ha ottenuto la conferma nel Ruolo dei Ricercatori Universitari (Gruppo disciplinare F06A Anatomia ed Istologia Patologica).
- Nel settembre 2001 ha ottenuto l'idoneità alla Procedura di Valutazione comparativa per Professore Universitario di ruolo Fascia degli Associati per il settore scientifico-disciplinare F06A Anatomia patologica (Med M08), bandita presso la Facoltà di Medicina e Chirurgia dell'Università di Roma "Tor Vergata".
- Il 1 novembre 2001 è stato chiamato dalla Facoltà di Medicina e Chirurgia dell'Università di Roma Tor Vergata a ricoprire il ruolo di Professore Associato di Anatomia ed Istologia Patologica.
In tale ruolo ha preso servizio il 2001, con decreto di nomina 2814 del 31/10/2001
- Il 12 aprile 2017 ha conseguito l'Idoneità a Professore I Fascia, Settore Concorsuale 06/A4 - *ANATOMIA PATOLOGICA*
- **Il 27 / 2 / 2018 è stato chiamato dall'Università di Roma Tor Vergata a ricoprire il ruolo di Professore Ordinario di Anatomia ed Istologia Patologica (SC 06/04 – SSD MED08 / Anatomia Patologica) presso il Dipartimento di Medicina Sperimentale, con DR num. 341 del 20/2/2018 e decreto di nomina n. 341 del 20/2/2018**
- **Dal 2018 ad oggi : Fondatore e membro del Comitato Scientifico del Centro di Eccellenza "TORVERGATA ONCOSCIENCE RESEARCH (TOR)"**
- **Dal 2024 ad oggi: Direttore Scuola Specializzazione in Anatomia Patologica dell'Università di Roma Tor Vergata**
- **Dal 2023 ad oggi: Direttore del Dipartimento di Medicina Sperimentale dell'Università di Roma Tor Vergata**

Nel 2023 nell'ambito dei Progetti PNRR è risultato vincitore dei seguenti bandi competitivi:

- Ministero Della Salute-PNRR – Responsabile Spoke di II livello Progetto INNOVA (PNC-E3-2022-23683266 PNCHLS-DA)
- Ministero dell'Università e della Ricerca-PNRR – Principal Investigator nell’ambito dello Spoke I
- Progetto HEAL ITALIA M4C2I1.3 PE6 PE00000019
- Ministero dell'Università e della Ricerca -PNRR – Principal Investigator nell’ambito dello Spoke II - Progetto MNESYS. PE00000006

ATTIVITA' SCIENTIFICA

L'attività scientifica del Prof. A. Mauriello attiene sia a temi di fisiopatologia dell'apparato vascolare sia alla patologia oncologica.

Il Prof. Mauriello è autore **di più di 200 lavori** pubblicati su riviste internazionali e nazionali e di numerosi capitoli in libri internazionali e di oltre 150 comunicazioni a congressi nazionali ed internazionali con:

Valori SCOPUS al 01 / 10 /2025:

Numero lavori totali:	221
Numero citazioni totali:	7324
H-index totale	42

Il Prof. Mauriello ha pubblicato più di 30 lavori su riviste internazionali con IF > 10.0

Nel 2012 è stato Coordinatore del Dottorato di Ricerca “Biotecnologie medico-chirurgiche e medicina traslazionale” proposto dall’Università di Roma Tor Vergata (ciclo 28°)

Dal 2017 ad oggi è membro del Collegio del Dottorato di Ricerca “Biochimica e biologia molecolare” proposto dall’Università di Roma Tor Vergata

PREMI E RICONOSCIMENTI PER L’ATTIVITÀ SCIENTIFICA

1998: "Young Investigator Award" of the American College of Cardiology.

2012: the first prize for the best work at the Twenty-Fourth Annual Transcatheter Cardiovascular Therapeutics (TCT) Symposium (October, 2012, Miami, Florida)

Principali pubblicazioni (indicizzate su Scopus e/o Web of Science)

Concetti L, Scimeca M, Bischof J, Woodsmith J, Agostini M, Fiorani C, Shi Y, Candi E, Melino G, **Mauriello A**, Sica GS. Multi-omic characterization of consensus molecular subtype 1 (CMS1) colorectal cancer with dampened immune response improves precision medicine. *Mol Oncol*. 2025 Jul 11. doi: 10.1002/1878-0261.70023.

Scimeca M, Giacobbi E, Bonfiglio R, Sisto R, Casciardi S, Servadei F, Middleton DRS, Bischof J, Scioli MP, Modesti G, Candi E, Melino G, **Mauriello A**. Lead bioaccumulation in human breast cancer tissue is associated with DNA instability and cell death resistance. *Cell Death Discov*. 2025 Aug 15;11(1):383..

Servadei F, Scimeca M, Palumbo V, Oddi FM, Bonfiglio R, Giacobbi E, Menghini R, Casagrande V, Cardellini M, Martelli E, Candi E, Melino G, Federici M, Ippoliti A, **Mauriello A**. Aging and Sex Modify the Risk of Carotid Plaque Thrombosis Related to Dyslipidemic Profile. *Stroke*. 2025 Oct;56(10):2879-2887.

Lena AM, Smirnov A, Mancini M, Montanaro M, Ciccocanti F, Foti V, Nardacci R, Fimia GM, Mavilio M, Federici M, **Mauriello A**, Piacentini M, Melino G, Candi E. Deletion of p63 exon 13 in mice reveals C-terminal isoform-specific functions in epithelial development. *Proc Natl Acad Sci U S A*. 2025 Jul 22;122(29):e2503866122.

Pecorari R, Mancini M, Smirnov A, Corleone G, Novelli F, Lena AM, Franzese Canonico M, Montanaro M, Cappello A, Sacconi A, Misso G, Falco M, Tammaro C, Ciccocanti F, Piacentini M, Scimeca M, Caraglia M, Blandino G, **Mauriello A**, Fanciulli M, Melino G, Candi E. p63 and ZNF148 cooperate to regulate head and neck squamous cell carcinoma. *Proc Natl Acad Sci U S A*. 2025 Jul 15;122(28):e2500579122.

Giacobbi E, Scioli MP, Servadei F, Palumbo V, Bonfiglio R, Bove P, **Mauriello A**, Scimeca M. PAX Family, Master Regulator in Cancer. *Diagnostics (Basel)*. 2025 Jun 3;15(11):1420.

Servadei F, Bonfiglio R, Sisto R, Casciardi S, Giacobbi E, Scioli MP, Palumbo V, Buonomo CO, Melino G, **Mauriello A**, Scimeca M. Mercury Bioaccumulation in Female Breast Cancer Is Associated to CXCR4 Expression. *Int J Mol Sci*. 2025 May 7;26(9):4427. doi: 10.3390/ijms26094427.

Palumbo V, Treglia M, Scimeca M, Servadei F, Giacobbi E, Bonfiglio R, Pallocci M, Passalacqua P, Del Duca F, Tittarelli R, Coppeta L, Schiaroli S, Cervelli G, **Mauriello A**, Marsella LT, Mauriello S. Cocaine-Induced Cardiac Alterations: Histological and Immunohistochemical Post-Mortem Analysis *Diagnostics (Basel)*. 2025 Apr 14;15(8):999.

Li J, Delecourt-Billet M, Fenneteau O, Neff JL, Roland L, Schell B, Gourhand V, Espeli M, Balabanian K, Taplin S, Defontis M, Nguyen CH, Mordhorst J, Johnson R, Taveras A, Geier CB, Schuetz C, Thiede C, Yilmaz M, Sakovich I, Sharapova S, Moschese V, **Mauriello A**, Walter JE, Cavieres M, Akahane D, Mousallem T, Li J, Newburger PE, Tarrant TK, Kelley ML, Bolyard AA, Dale DC, Donadieu J, Zmajkovicova K, Bledsoe JR. Clinicopathologic Features and the Spectrum of Myelokathexis in Warts, Hypogammaglobulinemia, Infections, Myelokathexis Syndrome. *Lab Invest*. 2025 Aug;105(8):104174. doi: 10.1016/j.labinv.2025.104174.

- Scimeca M, Bonfiglio R, Colosimo G, Candi E, Gerber GP, Lewbart GA, **Mauriello A**, Melino G, Sevilla C, Shi Y, Wang Y, Gentile G. Ultrastructural studies distinguish skin diversities among Galápagos iguanas. *Biol Direct*. 2025 Feb 4;20(1):16. doi: 10.1186/s13062-025-00602-5. P
- Melino G, Bischof J, Chen WL, Jia W, Juhl H, Kopeina GS, **Mauriello A**, Novelli F, Scimeca M, Shi Y, Pirozzi BM, Sica G, Zamaraev AV, Zhivotovsky B. New hope for the world cancer day. *Biol Direct*. 2025 Feb 4;20(1):14. doi: 10.1186/s13062-025-00608-z
- Giacobbi E, Bonfiglio R, Rotondaro G, Servadei F, Smirnov A, Palumbo V, Scioli MP, Bonanno E, Buonomo CO, Vanni G, Candi E, **Mauriello A**, Scimeca M. Implications of Mineralization Biomarkers in Breast Cancer Outcomes Beyond Calcifications. *Int J Mol Sci*. 2025 Jan 14;26(2):645. doi: 10.3390/ijms26020645.
- Gambacurta A, Tullio V, Savini I, **Mauriello A**, Catani MV, Gasperi V. Identification of the EBF1/ETS2/KLF2-miR-126-Gene Feed-Forward Loop in Breast Carcinogenesis and Stemness *Int J Mol Sci*. 2025 Jan 2;26(1):328. doi: 10.3390/ijms26010328. PMID: 39796183
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- Bonfiglio R, Giacobbi E, Palumbo V, Casciardi S, Sisto R, Servadei F, Scioli MP, Schiaroli S, Cornella E, Cervelli G, Sica G, Candi E, Melino G, **Mauriello A**, Scimeca M. Aluminum Concentration Is Associated with Tumor Mutational Burden and the Expression of Immune Response Biomarkers in Colorectal Cancers. *Int J Mol Sci*. 2024 Dec 13;25(24):13388. doi: 10.3390/ijms252413388.
- Gregg C, Montanaro M, Scioli MG, Puzzuoli M, Gino Grillo S, Scimeca M, **Mauriello A**, Orlandi A, Gasbarra E, Iundusi R, Pucci S, Tarantino U. Modulation of Carnitine Palmitoyl Transferase 1b Expression and Activity in Muscle Pathophysiology in Osteoarthritis and Osteoporosis. *Biomolecules*. 2024 Oct 12;14(10):1289. doi: 10.3390/biom14101289.
- Scimeca M, Palumbo V, Giacobbi E, Servadei F, Casciardi S, Cornella E, Cerbara F, Rotondaro G, Seghetti C, Scioli MP, Montanaro M, Barillà F, Sisto R, Melino G, **Mauriello A**, Bonfiglio R. Impact of the environmental pollution on cardiovascular diseases: From epidemiological to molecular evidence. *Heliyon*. 2024 Sep 19;10(18):e38047. doi: 10.1016/j.heliyon.2024.e38047. eCollection 2024 Sep 30. Review.
- Scimeca M, Giacobbi E, Servadei F, Palumbo V, Palumbo C, Finazzi-Agrò E, Albisinni S, **Mauriello A**, Albonici L. Prognostic Value of PlGF Upregulation in Prostate Cancer. *Biomedicines*. 2024 Sep 26;12(10):2194. doi: 10.3390/biomedicines12102194.
- Giovannini S, Smirnov A, Concetti L, Scimeca M, **Mauriello A**, Bischof J, Rovella V, Melino G, Buonomo CO, Candi E, Bernassola F. A comprehensive molecular characterization of a claudin-low luminal B breast tumor. *Biol Direct*. 2024 Aug 16;19(1):66. doi: 10.1186/s13062-024-00482-1.
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Zhu M, Rovella V, Scimeca M, **Mauriello A**, Shi Y, Bischof J, Woodsmith J, Anselmo A, Melino G, Tisone G, Agostini M. Genomic and transcriptomic profiling of hepatocellular carcinoma reveals a rare molecular subtype. Discov Oncol. 2024 Jan 16;15(1):10. doi: 10.1007/s12672-023-00850-9.

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Bonfiglio R, Sisto R, Casciardi S, Palumbo V, Scioli MP, Palumbo A, Trivigno D, Giacobbi E, Servadei F, Melino G, **Mauriello A**, Scimeca M. The impact of toxic metal bioaccumulation on colorectal cancer: Unravelling the unexplored connection. Sci Total Environ. 2024 Jan 1;906:167667. doi: 10.1016/j.scitotenv.2023.167667. Epub 2023 Oct 9.

Fan P, Zhang N, Candi E, Agostini M, Piacentini M; TOR Centre; Shi Y, Huang Y, Melino G. Alleviating hypoxia to improve cancer immunotherapy. Oncogene. 2023 Dec;42(49):3591-3604. doi: 10.1038/s41388-023-02869-2. Epub 2023 Oct 26. Review.

Bonfiglio R, Scimeca M, **Mauriello A**. The impact of environmental pollution on cancer: Risk mitigation strategies to consider. Sci Total Environ. 2023 Dec 1;902:166219. doi: 10.1016/j.scitotenv.2023.166219. Epub 2023 Aug 9.

Ticconi C, Mardente S, Mari E, Barreca F, Montanaro M, **Mauriello A**, Rizzo G, Zicari A. High mobility group box 1 in women with unexplained recurrent pregnancy loss. J Perinat Med. 2023 May 30;51(9):1139-1146. doi: 10.1515/jpm-2023-0109

Bonfiglio R, Scimeca M, **Mauriello A**. Addressing environmental pollution and cancer: the imperative of the 2030 agenda. Future Oncol. 2023 Nov;19(34):2273-2276. doi: 10.2217/fon-2023-0617. Epub 2023 Nov 3. PMID: 37920907

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Hou P, Fang J, Liu Z, Shi Y, Agostini M, Bernassola F, Bove P, Candi E, Rovella V, Sica G, Sun Q, Wang Y, Scimeca M, Federici M, **Mauriello A**, Melino G. Macrophage polarization and metabolism in atherosclerosis. *Cell Death Dis*. 2023 Oct 20;14(10):691. doi: 10.1038/s41419-023-06206-z. Review.

Han Y, Rovella V, Smirnov A, Buonomo OC, **Mauriello A**, Perretta T, Shi Y, Woodsmith J, Bischof J; TOR CENTRE; Melino G, Candi E, Bernassola F. A BRCA2 germline mutation and high expression of immune checkpoints in a TNBC patient. *Cell Death Discov*. 2023 Oct 9;9(1):370. doi: 10.1038/s41420-023-01651-3.

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Piro MC, Gasperi V, De Stefano A, Anemona L, Cenciarelli CR, Montanaro M, **Mauriello A**, Catani MV, Terrinoni A, Gambacurta A. In Vivo Identification of H3K9me2/H3K79me3 as an Epigenetic Barrier to Carcinogenesis. *Int J Mol Sci*. 2023 Jul 29;24(15):12158. doi: 10.3390/ijms241512158.

Yang X, Wang Y, Rovella V, Candi E, Jia W, Bernassola F, Bove P, Piacentini M, Scimeca M, Sica G, Tisone G, **Mauriello A**, Wei L, Melino G, Shi Y. Aged mesenchymal stem cells and inflammation: from pathology to potential therapeutic strategies. *Biol Direct*. 2023 Jul 18;18(1):40. doi: 10.1186/s13062-023-00394-6.

Scimeca M, Rovella V, Palumbo V, Scioli MP, Bonfiglio R, Tor Centre, Melino G, Piacentini M, Frati L, Agostini M, Candi E, **Mauriello A**. Programmed Cell Death Pathways in Cholangiocarcinoma: Opportunities for Targeted Therapy. *Cancers (Basel)*. 2023 Jul 15;15(14):3638. doi: 10.3390/cancers15143638. Review.

Lecis D, Massaro G, Benedetto D, Di Luozzo M, Russo G, **Mauriello A**, Federici M, Sangiorgi GM. *Int J Mol Sci*. 2023 Jul 1;24(13):10979. doi: 10.3390/ijms241310979. Immunomodulation Therapies for Atherosclerosis: The Past, the Present, and the Future. Review.

Fierro C, Gatti V, La Banca V, De Domenico S, Scalera S, Corleone G, Fanciulli M, De Nicola F, **Mauriello A**, Montanaro M, Calin GA, Melino G, Peschiaroli A. The long non-coding RNA NEAT1 is a Δ Np63 target gene modulating epidermal differentiation. *Nat Commun*. 2023 Jun 26;14(1):3795. doi: 10.1038/s41467-023-39011-5.

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