Curriculum vitae

Umberto Malapelle, Ph.D.

Professore Associato,
Dipartimento di Sanità Pubblica,
Università degli Studi di Napoli "Federico II",
via S. Pansini 5, 80131, Napoli, Italia

Informazioni generali:

Data e luogo di nascita: 17/04/1985; Napoli.

Indirizzo lavorativo: Dipartimento di Sanità Pubblica, Università degli Studi di Napoli "Federico II", via S. Pansini 5, 80131, Napoli, Italia.

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Lingue: Italiano (lingua madre)
Inglese (Ottima capacità di scrittura, lettura e dialogo)
Spagnolo (Buona capacità di scrittura, lettura e dialogo)

Affiliazioni Accademiche Attuali

- Professore Associato, University of Naples Federico II, Napoli, Italia.
- Adjunct Professor, The Ohio State University Comprehensive Cancer Center, Columbus, Ohio, Stati Uniti.

Titolo di studio

2009: Laurea Magistrale in Biotecnlogie Mediche, summa cum laude, Università degli Studi di Napoli "Federico II", Napoli, Italia.

2013: Ph.D. in Anatomia Patologica, "Titolo della tesi: "Valutazione dello stato mutazionale degli oncogeni predittivi di risposta terapeutica al trattamento di EGFR: validazione analitica e clinica.", Università degli Studi di Napoli "Federico II", Napoli, Italia.

Abilitazione all'esercizio della professione di biologo:

EA_019877, Napoli. (dal 24/02/2016)

Abilitazione Scientifica Nazionale a Professore di II Fascia dal 29/04/2019 sl 29/04/2025 (art. 16, comma 1, legge 240/10)

Membro della Commissione Scientifica, Scuola di Medicina Member of the Scientific Comminssion, School of medicine, Università degli Studi di Napoli "Federico II". (D.R. n. 3422 of 26/10/2020)

Membro del "Tavolo Tecnico sulla Medicina di Precisione e Prescrittomica", AIFA, Determina Presidenziale 621/20.

Esperienze professionali

2008: Research Partnership Italia-Spain. Laboratorio di Patologia Molecolare (Prof. M. A. Piris) Centro Nacional de Investigaciones Oncologicas (CNIO), Madrid, Spagna.

2010: Corso di formazione in "Laser capture microdissection with PALM MicroBeamsystem (Zeiss), Unità di Diagnostica Molecolare (Prof. Luis Lombardia), Centro Nacional de Investigaciones Oncologicas (CNIO), Madrid, Spagna.

2013: Corso di formazione Ion PGM Training presso Life Technologies in Frankfurter Str. 129B, 64293 Darmstadt, Germania.

2015 - 2017 Research Partnership Laboratorio di Patologia Molecolare Predittiva, Pangaea Inst/Dexeus University, Barcellona, Spagna.

Progetti di Ricerca Nazionali ed Internazionali

- 2008-2010: Membro del gruppo di ricerca, Italia-Spagna Partnership (MIUR grant, IT1816). Role of akt kinase in growth control of haematological and solid neoplasms. In collaborazione con Dr. Miguel Angel Piris del Programa de Patologia Molecular Centro Nacional de Investigaciones Oncologicas, Madrid, Spagna.
- 2009-2012: Membro del progetto PRIN: Histological and immunohistochemical effects of combined administration of rapamycin, tolvaptan, and AEZ-131 on the progression of polycystic disease in PCK rats, Università degli Studi di Napoli "Federico II", Napoli, Italia.
- 2015-oggi: Co-Investigatore del Progeto di Ricerca "Molecular Biology in indeterminate thyroid FNA" finanziato da Regione Campania (Legge Regionale n. 24 del 29/12/2005).
- 2016-present: Co-Investigatore del Progetto di Ricerca "Traslation in clinical practice of ctDNA analysis for EGFR mutation in NSCLC patients" Promotore: Università degli Studi di Napoli "Federico II", Napoli, Italia.

Incarichi Accademici:

- 2013 - oggi: Relatore al Master teorico-pratico di I livello in "Metodologie di Anatomia Patologica per lo studio dei biomarcatori predittivi di risposta terapeutica" (coordinatore prof. Giancarlo Troncone), Dipartimento di Sanità Pubblica, Università degli Studi di Napoli "Federico II", Napoli, Italia.
- 2016 – oggi: Docente in Anatomia Patologica, Scuola di Medicina e Chirurgia, • Università degli Studi di Napoli "Federico II", Napoli, Italia.
- 2016 – oggi: Docente in Anatomia Patologica, Corso di Laura in Tecniche Neurofisiopatologiche, Università degli Studi di Napoli "Federico II", Napoli, Italia.
- 2016 – oggi: Docente in Anatomia Patologica, Corso di Laurea per Tecnici audiometrici, Università degli Studi di Napoli "Federico II", Napoli, Italia.
- 2016 – oggi: Docente nella Scuola di Specializzazione in Anatomia Patologica, Università degli Studi di Napoli "Federico II", Napoli, Italia.
- 2019-oggi: Chair of Young Investigators dell'International Society of Liquid Biopsy.
- 2020-presente: Membro del pannello dei revisiori per studenti di dottorato, Università degli Studi di Bologna, Bologna, Italia.
- 2020 – presente: Membro del "NETWORK ONCOLOGY AND PRECISION MEDICINE" Ph.D. Program, Università "La Sapienza", Roma, Italia.
- 2021 – presente: Membro della Breast Unit, Università degli Studi di Napoli "Federico II", Napoli, Italia.
- 2021 – presente: Supervisore per l' International PhD Course in Molecular Medicine, Curriculum in Experimental and clinical medicine, Università San Raffaele, Milano, Italia.
- 2021 – presente: Supervisore per Doctoral School in Life and Health Sciences PhD Program in Complex System for Life Sciences, Università di Torino, Italia.
- 2021: UICC Virtual Fellowship. 18 maggio 2021. Clinical and Translational Research in Lung Cancer.
- 2021-2025: Segretario della International Society of Liquid Biopsy.
- 2023-presente: Membro della ESMO Communication Committee.
- 2023-presente: Membro dell'External Scientific Committee dell' Instituto Valenciano de Oncologia (FIVO).
- 2024-presente: Membro della "Commissione paritetica docenti/allievi dottorali della Scuola Superiore Meridionale di Area Scientifico – Tecnologica" (delibera del Comitato Ordinatore della Scuola Superiore Meridionale, n.14 del 29/01/2024).
- 2024-presente ESMO TAT - faculty - invited speaker

- 2024: Internship Supervisor per il modulo Internship/project dell'European MSc in Molecular Pathology durante l'anno accademico 2023-2024.
- 2024: Faculty del College of the European School of Oncology.
- 2025: External Scientific Committee della Fundación Instituto Valenciano de Oncologia (IVO)
- 2025-presente: Presidente della International Society of Liquid Biopsy.
- 2025-presente: Membro dello Steering Committee of the Implementing Gender Equity in Lung Cancer Clinical Trials initiative (IASCL).
- 2025: Tutor per la Veronesi Post-doctoral fellowship.
- 2025-presente: Membro del Comitato Tecnico-Scientifico di Allenza Contro il Tumore Ovarico (ACTO) Italia.
- 2025-presente: Membro del Collegio del Dottorato "Network oncology and precision medicine", Università degli Studi di Roma "La Sapienza" (XLI ciclo).
- 2025-presente: Membro del Collegio del Dottorato "Clinical and translational oncology", Scuola Superiore Meridionale" (XLI ciclo).
- 2026: Peer reviewer for the HRCI-HRB Joint Funding Scheme 2026.

Incarichi Editoriali:

- 2020-oggi: Associate Editor di Frontiers in Oncology per la sezione "Thoracic Oncology".
- 2020-oggi: Associate Editor di Frontiers in Oncology per la sezione "Women's Cancer".
- 2020-oggi: Deputy Editor di Critical Reviews in Oncology/Hematology.
- 2020-oggi: Membro dell'Editorial Board di Journal of Molecular Pathology.
- 2020-oggi: Membro dell'Editorial Board di Cells.
- 2023-oggi: Editor in Chief of The Journal of Liquid Biopsy (IF5).
- 2024-oggi: Membro dell'Editorial Board di Molecular Diagnosis & Therapy.

Attività di trasferimento tecnologico

- 2017 – oggi: Membro proponente della Spin – Off del Dipartimento di Sanità Pubblica, Università degli Studi di Napoli "Federico II", GENEDIN s.r.l. (Via Giovanni Devoti 14, 00167, Roma, Italia).
- Ideatore e proprietario (50%) del pannello SiRe® (CE – IVD), un pool di oligonucleotidi per la caratterizzazione dell'assetto molecolare di geni predittivi di risposta al trattemento con terapie farmacologiche mirate nel carcinoma del colon-retto metastatico, carcinoma del polmone a cellule non piccole, melanoma e tumori gastrointestinali stromali.

Reviewer Per Progetti Internazionali

- partecipante come reviewer ai progetti della Dutch Cancer Society (KWF).
- Health Research Board Peer Reviews.

Progetti supportati da fondi vinti da bandi competitivi:

- Responsabile Scientifico del progetto "NExt generation Omics per la diagnosi molecolare del carcinoma polmonare Non a piccole cellule – NEON" nell'ambito del bando a cascata Anthem - AdvaNced Technologies for Human-centrEd Medicine finanziato con il Decreto Direttoriale 9 dicembre 2022, prot. n. 0001983 - CUP B53C22006700001.
- Responsabile Scientifico del progetto "ctDNA-guided intermittent Enfortumab Vedotin during Enfortumab Vedotin plus Pembrolizumab in Untreated Patients with Advanced Urothelial Carcinoma. The FUTURE Phase 2 Study", nell'ambito del bando della ricerca finalizzata 2024 - avvio procedure convenzionamento, progetto GR-2024-12380208 - GEMELLI

<u>Expertise e contributo alla patologia molecolare predittiva:</u>

Mi sono laureato in biotecnologie mediche presso l'Università degli Studi di Napoli "Federico II" nel 2009, quindi mi sono formato presso il Centro Nacional de Investigaciones Oncologicas (CNIO), Madrid, Spagna nell'ambito della Research Partnership con il gruppo diretto dal Prof. M. A. Pirirs. Ho conseguito il titolo di dottore di ricerca in Anatomia Patologica presso l'Università degli Studi di Napoli "Federico II", nel 2013 (Coordinatore Prof.ssa Stefania Montagnani), quindi ho collaborato con il Pangaea Inst/Dexeus University, Barcellona, Spagna nel 2016 sotto la

supervisione del Prof. R. Rosell. Dal 2015 sono Ricercatore presso l'Università degli Studi di Napoli "Federico II".

Dal 2008 al 2010 ho fatto parte come membro del gruppo di ricerca Italia-Spagna (MIUR grant, IT1816). Role of akt kinase in growth control of hematological and solid neoplasms. In collaborazione con il Dr. Miguel Angel Piris del Programa de Patologia Molecular Centro Nacional de Investigaciones Oncologicas Madrid, Spagna.

Dal 2009 al 2012 ho preso parte al progetto PRIN: Histological and immunohistochemical effects of combined administration of rapamycin, tolvaptan, and AEZ-131 on the progression of polycystic disease in PCK rats.

Dal 2015 ad oggi sono Co-Investigatore del progetto di ricerca "Molecular Biology in indeterminate thyroid FNA" finanziato dalla Regione Campania (L.R. n. 24 del 29/12/2005).

Dal 2016 ad oggi sono Co-Investigatore del progetto di ricerca "Traslation in clinical practice of ctDNA analysis for EGFR mutation in NSCLC patients" promosso dall'Università degli Studi di Napoli Federico II.

Sono expert member dell'International Society of Liquid Biopsy (ISLB) e membro del board del Gruppo Italiano di Patologia Molecolare e Medicina Predittiva (PMMP).

Attualmente sono Chief Suepervisor del laboratorio di Patologia Molecolare Predittiva presso il Dipartimento di Sanità Pubblica dell'Università degli Studi di Napoli "Federico II". Il mio ambito di ricerca è focalizzato sull'oncologia molecolare e sull'immunoterapia nelle neoplasie del distretto toracico ed in generale per i tumori solidi, adottando tecnologie di nuova generazione sia su campioni tissutali sia su campioni di biopsia liquida, in particolare su DNA tumorale circolante.

Ho sviluppato il pannello NGS Sire® per l'identificazione di mutazioni clinicamente relevant nei NSCLC, GIST, mCRC e melanomi metastatici. Sono tra i fondatori della Spin – off universitaria Genedin.

Membro delle linee guida italiane

2019 - presente: AIOM – neoplasie polmonari;

2020 - presente: SIAPEC - Melanoma;

2020 - presente: AIOM, SIAPEC, SIF, SIBICO – patologia molecolare predittiva nei pazienti affetti da neoplasie solide

2022 - presente: AIOM, SIAPEC, SIF, SIBICO – Tumori Eredo-Familiari

Membro delle linee guida internazionali

2019 - presente: International Association for the Study of Lung Cancer (IASLC) – biopsia liquida nel carcinoma polmonare

Membro di:

- • **Master di II livello in "Immuno-Oncologia e Terapie Cellulari"** *(La Sapienza)*

- **Gruppo Multidisciplinare Innovatività (GMI)** relativo ad analisi sulle tematiche gestionali ed economiche dell'Oncologia di Precisione *(Economia Sanitaria)*

- **Membro del Comitato Scientifico e Coordinatore** nell'ambito del workshop sulla Medicina di Precisione Computazionale

- **Comitato direttivo del progetto "Lung Cancer Canvas" – Studio AstraZeneca**

- **Membro del Comitato Tecnico Scientifico di Europa Donna Italia**

- **Studi avanzati sulle neoplasie toraciche (CAS-TM)** – Programma della **Scuola Europea di Oncologia (ESO)** *(Roma)*

- **Registro pazienti** per la raccolta di dati clinici e molecolari relativi a:

    - pazienti con carcinoma polmonare non a piccole cellule (NSCLC) in stadio localmente avanzato e/o metastatico, non operabile (stadio IIIB/C o IV),
    - che non hanno ricevuto precedenti trattamenti per la malattia avanzata,
    - e che quindi sono candidati alla **prima linea terapeutica** *(HEDERA)*

- **Tavolo Regionale Campania – Progetto Biopsia Liquida nel carcinoma mammario metastatico** *(Regione Campania)*

- **Commissione per la valutazione dei progetti FIL B,** Università degli Studi di Parma.

Riconoscimenti

- Heroes of Pathology. The Power List 2024. The Pathologist. https://thepathologist.com/power-list/2024/heroes-of-pathology/umberto-malapelle

Brevetti

"Medical device for performing a liquid biopsy and related manufacturing method". WO 2025/120530. PCT/IB2024/062196.

Papers:

1. Troncone G, Russo M, **Malapelle U**, Accardo M, Ferraro A, Cozzolino I, Palombini L. Cytological and molecular diagnosis of solid variant of papillary thyroid carcinoma: a case report. Cytojournal. 2008 Mar 19;5:2. doi: 10.1186/1742-6413-5-2. PMID: 18353179; PMCID: PMC2278161.

2. Troncone G, Cozzolino I, Fedele M, **Malapelle U**, Palombini L. Preparation of thyroid FNA material for routine cytology and BRAF testing: a validation study. Diagn Cytopathol. 2010 Mar;38(3):172-6. doi: 10.1002/dc.21166. PMID: 19693938.

3. Troncone G, Volante M, Iaccarino A, Zeppa P, Cozzolino I, **Malapelle U**, Palmieri EA, Conzo G, Papotti M, Palombini L. Cyclin D1 and D3 overexpression predicts malignant behavior in thyroid fine-needle aspirates suspicious for Hurthle cell neoplasms. Cancer. 2009 Dec 25;117(6):522-9. doi: 10.1002/cncy.20050. PMID: 19787802.

4. Troncone G, **Malapelle U**, Cozzolino I, Palombini L. KRAS mutation analysis on cytological specimens of metastatic colo-rectal cancer. Diagn Cytopathol. 2010 Dec;38(12):869-73. doi: 10.1002/dc.21302. PMID: 20049979.

5. Cozzolino I, **Malapelle U**, Carlomagno C, Palombini L, Troncone G. Metastasis of colon cancer to the thyroid gland: a case diagnosed on fine-needle aspirate by a combined cytological, immunocytochemical, and molecular approach. Diagn Cytopathol. 2010 Dec;38(12):932-5. doi: 10.1002/dc.21346. PMID: 20213843.

6. **Malapelle U**, Bellevicine C, Russo A, Salatiello M, Palombini L, Troncone G. KRAS testing on colo-rectal carcinoma cytological imprints. Diagn Cytopathol. 2011 Apr;39(4):274-7. doi: 10.1002/dc.21417. PMID: 20607679.

7. **Malapelle U**, Bellevicine C, Zeppa P, Palombini L, Troncone G. Cytology-based gene mutation tests to predict response to anti-epidermal growth factor receptor therapy: a review. Diagn Cytopathol. 2011 Sep;39(9):703-10. doi: 10.1002/dc.21512. Epub 2010 Nov 9. PMID: 21837660.

8. **Malapelle U**, de Rosa N, Rocco D, Bellevicine C, Crispino C, Illiano A, Piantedosi FV, Nappi O, Troncone G. EGFR and KRAS mutations detection on lung cancer liquid-based cytology: a pilot study. J Clin Pathol. 2012 Jan;65(1):87-91. doi: 10.1136/jclinpath-2011-200296. Epub 2011 Sep 22. PMID: 21945923.

9. Bellevicine C, **Malapelle U**, Docimo G, Ciancia G, Mossetti G, Pettinato G, Troncone G. Multicentric encapsulated papillary oncocytic neoplasm of the thyroid: A case diagnosed by a combined cytological, histological, immunohistochemical, and molecular approach. Diagn Cytopathol. 2012 Maggio;40(5):450-4. doi: 10.1002/dc.21828. Epub 2011 Sep 30. PMID: 21965084.

10. Forzati F, Federico A, Pallante P, Abbate A, Esposito F, **Malapelle U**, Sepe R, Palma G, Troncone G, Scarfò M, Arra C, Fedele M, Fusco A. CBX7 is a tumor suppressor in mice and humans. J Clin Invest. 2012 Feb;122(2):612-23. doi: 10.1172/JCI58620. Epub 2012 Jan 3. Erratum in: J Clin Invest. 2013 Feb 1;123(2):934. PMID: 22214847; PMCID: PMC3266782.

11. **Malapelle U**, de Rosa N, Bellevicine C, Rocco D, Vitiello F, Piantedosi FV, Illiano A, Nappi O, Troncone G. EGFR mutations detection on liquid-based cytology: is microscopy still necessary? J Clin Pathol. 2012 Jun;65(6):561-4. doi: 10.1136/jclinpath-2011-200659. Epub 2012 Apr 1. PMID: 22466414.

12. Zeppa P, Sosa Fernandez LV, Cozzolino I, Ronga V, Genesio R, Salatiello M, Picardi M, **Malapelle U**, Troncone G, Vigliar E. Immunoglobulin heavy-chain fluorescence in situ hybridization-chromogenic in situ hybridization DNA probe split signal in the clonality assessment of lymphoproliferative processes on cytological samples. Cancer Cytopathol. 2012 Dec 25;120(6):390-400. doi: 10.1002/cncy.21203. Epub 2012 Apr 19. PMID: 22517675.

13. **Malapelle U**, Carlomagno C, Salatiello M, De Stefano A, De Luca C, Bianco R, Marciano R, Cimminiello C, Bellevicine C, De Placido S, Troncone G. KRAS mutation detection by high-resolution melting analysis significantly predicts clinical benefit of cetuximab in metastatic colorectal cancer. Br J Cancer. 2012 Aug 7;107(4):626-31. doi: 10.1038/bjc.2012.275. Epub 2012 Jul 17. PMID: 22805329; PMCID: PMC3419946.

14. **Malapelle U**, Bellevicine C, Salatiello M, de Luca C, Rispo E, Riccio P, Sparano L, De Stefano A, Carlomagno C, Maiello FM, Vita G, Nappi O, Troncone G. Sanger sequencing in routine KRAS testing: a review of 1720 cases from a pathologist's perspective. J Clin Pathol. 2012 Oct;65(10):940-4. doi: 10.1136/jclinpath-2012-200773. Epub 2012 Aug 7. PMID: 22872705; PMCID: PMC3461636.

15. Bellevicine C, **Malapelle U**, Iaccarino A, Schettino P, Napolitano V, Zeppa P, Troncone G. Foamy gland pancreatic ductal adenocarcinoma diagnosed on EUS-FNA: a histochemical, immunohistochemical, and molecular report. Diagn Cytopathol. 2013 Jan;41(1):77-80. doi: 10.1002/dc.22923. Epub 2012 Sep 25. PMID: 23008087.

16. Bellevicine C, Cozzolino I, **Malapelle U**, Zeppa P, Troncone G. Cytological and molecular features of papillary thyroid carcinoma with prominent hobnail features: a case report. Acta Cytol. 2012;56(5):560-4. doi: 10.1159/000338395. Epub 2012 Sep 27. PMID: 23075900.

17. Pallante P, **Malapelle U**, Berlingieri MT, Bellevicine C, Sepe R, Federico A, Rocco D, Galgani M, Chiariotti L, Sanchez-Cespedes M, Fusco A, Troncone G. UbcH10 overexpression in human lung carcinomas and its correlation with EGFR and p53 mutational status. Eur J Cancer. 2013 Mar;49(5):1117-26. doi: 10.1016/j.ejca.2012.09.033. Epub 2012 Oct 24. PMID: 23102841.

18. Rosa R, Marciano R, **Malapelle U**, Formisano L, Nappi L, D'Amato C, D'Amato V, Damiano V, Marfè G, Del Vecchio S, Zannetti A, Greco A, De Stefano A, Carlomagno C, Veneziani BM, Troncone G, De Placido S, Bianco R. Sphingosine kinase 1 overexpression contributes to cetuximab resistance in human colorectal cancer models. Clin Cancer Res. 2013 Jan 1;19(1):138-47. doi: 10.1158/1078-0432.CCR-12-1050. Epub 2012 Nov 19. PMID: 23166225.

19. Bellevicine C, Zabatta A, **Malapelle U**, Vetrani A, Troncone G. Diffuse large B-cell extranodal lymphoma of the uterine cervix: an incidental pap smear finding with histological and immunohistochemical correlation. Diagn Cytopathol. 2014 Jul;42(7):644-6. doi: 10.1002/dc.22966. Epub 2013 Feb 26. PMID: 23441015.

20. Bellevicine C, Iaccarino A, **Malapelle U**, Troncone G. Warthin tumor with signet-ring cell features as a pitfall in salivary gland cytopathology. Acta Cytol. 2013;57(3):309-12. doi: 10.1159/000348248. Epub 2013 Apr 25. PMID: 23635480.

21. **Malapelle U**, Bellevicine C, De Luca C, Salatiello M, De Stefano A, Rocco D, de Rosa N, Vitiello F, Russo S, Pepe F, Iaccarino A, Micheli P, Illiano A, Carlomagno C, Piantedosi FV, Troncone G. EGFR mutations detected on cytology samples by a centralized laboratory reliably predict response to gefitinib in non-small cell lung carcinoma patients. Cancer Cytopathol. 2013 Oct;121(10):552-60. doi: 10.1002/cncy.21322. Epub 2013 Jun 18. PMID: 23780873.

22. **Malapelle U**, Russo S, Pepe F, Sgariglia R, De Luca C, Bellevicine C, Pallante P, Troncone G. EGFR mutation detection by microfluidic technology: a validation study. J Clin Pathol. 2013 Nov;66(11):982-4. doi: 10.1136/jclinpath-2013-201730. Epub 2013 Jun 21. PMID: 23794480.

23. Bellevicine C, Iaccarino A, **Malapelle U**, Sasso FC, Biondi B, Troncone G. PAX8 is expressed in anaplastic thyroid carcinoma diagnosed by fine-needle aspiration: a study of three cases with histological correlates. Eur J Endocrinol. 2013 Jul 29;169(3):307-11. doi: 10.1530/EJE-13-0150. PMID: 23811186.

24. **Malapelle U**, Carlomagno C, de Luca C, Bellevicine C, Troncone G. KRAS testing in metastatic colorectal carcinoma: challenges, controversies, breakthroughs and beyond. J Clin Pathol. 2014 Jan;67(1):1-9. doi: 10.1136/jclinpath-2013-201835. Epub 2013 Sep 10. PMID: 24022727.

25. Bellevicine C, Vita GD, **Malapelle U**, Troncone G. Applications and limitations of oncogene mutation testing in clinical cytopathology. Semin Diagn Pathol. 2013 Nov;30(4):284-97. doi: 10.1053/j.semdp.2013.11.008. Epub 2013 Nov 12. PMID: 24342285.

26. de Biase D, Visani M, **Malapelle U**, Simonato F, Cesari V, Bellevicine C, Pession A, Troncone G, Fassina A, Tallini G. Next-generation sequencing of lung cancer EGFR exons 18-21 allows

effective molecular diagnosis of small routine samples (cytology and biopsy). PLoS One. 2013 Dec 23;8(12):e83607. doi: 10.1371/journal.pone.0083607. PMID: 24376723; PMCID: PMC3871524.

27. Bellevicine C, **Malapelle U**, de Luca C, Iaccarino A, Troncone G. EGFR analysis: current evidence and future directions. Diagn Cytopathol. 2014 Nov;42(11):984-92. doi: 10.1002/dc.23142. Epub 2014 Mar 12. PMID: 24619906.

28. Bellevicine C, Bianco A, **Malapelle U**, De Luca C, Vigliar E, Cacciola NA, Pallante P, Troncone G. Performance of EGFR mutant-specific antibodies in different cytological preparations: a validation study. Cytopathology. 2015 Apr;26(2):99-105. doi: 10.1111/cyt.12155. Epub 2014 Maggio 15. PMID: 24831172.

29. Della Vittoria Scarpati G, Calura E, Di Marino M, Romualdi C, Beltrame L, **Malapelle U**, Troncone G, De Stefano A, Pepe S, De Placido S, D'Incalci M, Marzoini S, Carlomagno C. Analysis of differential miRNA expression in primary tumor and stroma of colorectal cancer patients. Biomed Res Int. 2014;2014:840921. doi: 10.1155/2014/840921. Epub 2014 Jul 10. PMID: 25143946; PMCID: PMC4128171.

30. Vigliar E, **Malapelle U**, Bellevicine C, de Luca C, Troncone G. Outsourcing cytological samples to a referral laboratory for EGFR testing in non-small cell lung cancer: does theory meet practice? Cytopathology. 2015 Oct;26(5):312-7. doi: 10.1111/cyt.12221. Epub 2014 Nov 7. PMID: 25376259.

31. **Malapelle U**, Vigliar E, Sgariglia R, Bellevicine C, Colarossi L, Vitale D, Pallante P, Troncone G. Ion Torrent next-generation sequencing for routine identification of clinically relevant mutations in colorectal cancer patients. J Clin Pathol. 2015 Jan;68(1):64-8. doi: 10.1136/jclinpath-2014-202691. Epub 2014 Nov 5. PMID: 25378536.

32. Bellevicine C, **Malapelle U**, Vigliar E, de Luca C, Troncone G. Epidermal growth factor receptor test performed on liquid-based cytology lung samples: experience of an academic referral center. Acta Cytol. 2014;58(6):589-94. doi: 10.1159/000369756. Epub 2014 Nov 22. PMID: 25428205.

33. **Malapelle U**, Sgariglia R, De Stefano A, Bellevicine C, Vigliar E, de Biase D, Sepe R, Pallante P, Carlomagno C, Tallini G, Troncone G. KRAS mutant allele-specific imbalance (MASI) assessment in routine samples of patients with metastatic colorectal cancer. J Clin Pathol. 2015 Apr;68(4):265-9. doi: 10.1136/jclinpath-2014-202761. Epub 2015 Jan 21. PMID: 25609577.

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4. **Malapelle U**, Pisapia P, Passiglia F, Dendooven A, Pauwels P, Salgado R, Rolfo C. (2019). Next-Generation Sequencing in Clinical Practice. Oncogenomics, pp 57-64. Academic Press.
5. **Malapelle U**, Pisapia P, Cieri M, Pepe F, Troncone G. (2019). RNA-Based Assays. Molecular Diagnostics in Cytopathology, pp 99-119. Springer, Cham.
6. Pisapia P, Cieri M, Pepe F, **Malapelle U**, Troncone G. (2019). DNA-Based Sequencing Assays. Molecular Diagnostics in Cytopathology, pp 83-97. Springer, Cham.

Brevetti

PCT/IB2024/062196

Partecipazione a congressi:

- 1: “Congresso Annuale di Anatomia Patologica SIAPEC-IAP”, 25-27 settembre 2008, Bari, Italia
- 2: “22nd European Congress of Pathology”, 04-09 settembre 2009, Firenze, Italia.
- 3: “Congresso Annuale di Anatomia Patologica SIAPEC-IAP”, 21-25 settembre 2010, Bologna, Italia.
- 4: “Molecular Cytopathology”, 04 Ottobre 2010, Napoli, Italia.
- 5: "Il ruolo della targeted therapy nelle neoplasie che iperesprimono EGFR", 14 Ottobre 2011, IRCCS-CROB, Rionero in Vulture, Italia.
- 6: "Congresso Annuale di Anatomia Patologica SIAPEC - IAP", 27-29 Ottobre 2011, Palermo, Italia.
- 7: "I Congresso nazionale di Citopatologia SIAPEC - IAP", 30 Giugno 2012, Trieste, Italia.
- 8: "III Molecular Cytopathology", 27 Settembre 2012, Napoli, Italia.
- 9: "GIST & TUMORI RARI", 28 Febbraio 2014, Napoli, Italia.
- 10: "IV Corso Nazionale AIOM - SIAPEC, Percorso e metodologia nella diagnostica molecolare in oncologia", 26 Marzo 2014, Roma, Italia.
- 11: "ESHO 2014 International Conference", 11-14 Giugno 2014, Torino, Italia.
- 12: “III Congresso Associazione Giovani Oncologi Campani - Update sul trattamento del tumore del colon e del retto", 10 Ottobre 2014, Napoli, Italia.
- 13: “Congresso Annuale di Anatomia Patologica SIAPEC-IAP”, 22-25 Ottobre 2014, Firenze, Italia.
- 14: "Nuove evidenze nella gestione del carcinoma del colon metastatico", 17 Dicembre 2014, Pozzuoli, Italia.
- 15: "Principali evidenze e punti aperti nel trattamento di II linea dell'adenocarcinoma in stadio avanzato", 23 Gennaio 2015, Milano, Italia.
- 16: "Il confine tra benigno e maligno: il percorso diagnostico dalla morfologia alla biologia molecolare", 28-30 Gennaio 2015, Napoli, Italia.
- 17: "Il laboratorio di Patologia Molecolare: quale presente e quale futuro", 26-27 Febbraio 2015, Napoli, Italia.
- 18: "Metodologie di Anatomia Patologica per lo studio di Biomarcatori predittivi di risposta terapeutica", 9 Aprile 2015, Napoli, Italia.
- 19: "Strategie terapeutiche nel carcinoma del colon - retto metastatico", 28 Aprile 2015, Napoli, Italia.

- 20: "Primo incontro nazionale del gruppo di Patologia Molecolare e Medicina Predittiva (PMMP)", 20 Giugno 2015, Roma, Italia.
- 21: "Il patologo ed i test diagnostici di laboratorio: l'importanza della preclinica", 23 Giugno 2015, Napoli, Italia.
- 22: "Campus in Oncologia", 25-26 Giugno 2015, Bologna, Italia.
- 23: "Strategie terapeutiche in prima e seconda linea per i pazienti con NSCLC EGFR+ e EGFR WT", 11 Settembre 2015, Avellino, Italia.
- 24: "39th European Congress of Cytology", 20-23 Settembre 2015, Milano, Italia.
- 25: "Dalla Diagnosi morfologica alla biopsia liquida: la base per l'impostazione del percorso terapeutico", Congresso Nazionale AIOM, 23-25 Ottobre 2015, Roma, Italia.
- 26: "L'approccio terapeutico al paziente con NSCLC tra esperienze acquisite e prospettive future", 2 Novermber 2015, Milano, Italia.
- 27: "Dalle evidenze del IASLC al dibattito aperto sulle attuali opzioni terapeutiche disponibili", 4 Novembre 2015, Aci Castello, Italia.
- 28: "Detectin Acquired Resistance on Liquid Biopsy", 10 Novembre 2015, Napoli, Italia.
- 29: "RAS master program", 11 Novembre 2015, Napoli, Italia.
- 30: "L'approccio terapeutico al paziente con NSCLC tra esperienze acquisite e prospettive future", 12 Novembre 2015, Roma, Italia.
- 31: "L'approccio terapeutico al paziente con NSCLC tra esperienze acquisite e prospettive future", 23 Novembre 2015, Napoli, Italia.
- 32: "Scientific Exchange meeting oncology on lung cancer", 1-2 Dicembre 2015, Milano, Italia.
- 33: "ALKUANTO: dall'importanza della determinazione di ALK all'importanza della gestione terapeutica appropriata", 18 Marzo 2016, Napoli, Italia.
- 34: "Marcatori Molecolari in Anatomia Patologica: quando, come e perchè", 8 Aprile 2016, University Maggiore della Carità, Novara, Italia.
- 35: “NSCLC: what has changed?", 6 Maggio 2016, Forte dei Marmi, Italia.
- 36: "La chemioterapia e le terapie target nell'era dell'immunoterapia", 20 Maggio 2016, Serravalle Scrivia, Italia.
- 37: "Terapie a bersaglio molecolare nel carcinoma del polmone. Monitoraggio molecolare: come, quando e perchè?, 26 Maggio 2016, Spedali Civili di Brescia, Brescia, Italia.
- 38: "II Incontro Nazionale del gruppo italiano di Patologia Molcolare e Medicina Predittiva", 31 Maggio 2016, Bologna, Italia.
- 39: “Privat meet. ASCO annual meeting 2016", 3-7 Giugno 2016, Chicago, IL, USA.

- 40: "Il carcinoma del colon-retto metastatico: strategie di trattamento attuali e future.", 22 Giugno 2016, Napoli, Italia.
- 41: "I congresso regionale FONICAP", 1 Luglio 2016, Cagliari, Italia.
- 42: "Next generation network: from the knoledge to know – how. focus on liquid biopsy", 29 Settembre 2016, Roma, Italia.
- 43: "Liquid biopsy in NSCLC clinical practice", 30 Settembre 2016, Università Piemonte Orientale, Novara, Italia.
- 44: "Private meet on NSCLC. ESMO 2016", 7-11 Ottobre 2016, Copenhagen, Danimarca.
- 45: "Microambiente tumorale. Antiangiogenici e immunoterapia: miti e realtà", 11 Ottobre 2016, Milano, Italia.
- 46: "V Molecular Cytopathology", 18 Ottobre 2016, Napoli, Italia.
- 47: "FOCUS on Neoplasie e nuove terapie", 20 Ottobre 2016, Lucca, Italia.
- 48: "Strategie di trattamento nel NSCLC in stadio avanzato", 21 Ottobre 2016, Bologna, Italia.
- 49: "Oncologia molecolare del polmone - consenso informato e responsabilità professionale", 8 Novembre 2016, Napoli, Italia.
- 50: "Il carcinoma del colon retto metastatico: strategie di trattamento attuali e future", 9 Novembre 2016, Napoli, Italia.
- 51: "Nuove frontiere diagnostico terapeutiche nelle neoplasie polmonari, renali e nel melanoma", 12 Novembre 2016, Novara, Italia.
- 52: "Ulisse: finding the way in lung cancer", 22-23 Novembre 2016, Roma, Italia.
- 53: "Higliths in oncologia: il trattamento del carcinoma colorettale metastatico ras wild - type", 26 Novembre 2016, Rende, Italia.
- 54: "Ulisse: finding the way in lung cancer", 29 Novembre 2016, Napoli, Italia.
- 55: "Novità nei tumori polmonari", 30 Novembre 2016, Bolzano, Italia.
- 56: "PD-L1 un riferimento emergente nelle strategie dell'immunoncologia", 6 Dicembre 2016, Napoli, Italia.
- 57: "BEST OF WLCC 2016", Firenze, Italia, after "World Lung Cancer Conference 2016", 13 Dicembre 2016, Vienna, Austria.
- 58: "Le patologie emergenti, confronto interdisciplinare NSCLC EGFR+ VE: how the multidisciplinary approach wins the game", 16 Dicembre 2016, Monza, Italia.
- 59: "Master class mCRC2 2017", 7-8 Aprile 2017, Baveno, Italia.
- 60: "Stand Alone Scientific Symposium CTIO: Focus on Lung Cancer", 18-19 Aprile 2017, Roma, Italia.

- 61: "IO YOUNG: una nuova prospettiva per l'immunoterapia", 12-13 Maggio 2017, Milano, Italia.
- 62: "PD-L1: un riferimento emergente nell'immuno - oncologia", 15 Maggio 2017, Torino, Italia.
- 63: “Next Generation Technologies – simultaneous biomarkers evaluation in clinical practice”, 31 Maggio 2015, Napoli, Italia.
- 64: "III Incontro Nazionale del gruppo italiano di Patologia Molcolare e Medicina Predittiva", 6 Giugno 2017, Bologna, Italia.
- 65: “Congresso Nazionale dell’Associazione Italiana di Pneumologia Oncologica – AIPO – 2017”, 10-11 Giugno 2017, Firenze, Italia.
- 66: “La selezione del paziente NSCLC”, 16 Giugno 2017, Agrigento, Italia.
- 67: “Tavola rotonda sul trattamento del paziente con NSCLC.”, 22 Giugno 2017, Cagliari, Italia.
- 68: “Win symposium + meet the expert”, 25-27 Giugno 2017, Parigi, Francia.
- 69: “European Thoracic Oncology Platform”, 5-8 Ottobre 2017, Amsterdam, Olanda.
- 70: “Congresso Annuale di Anatomia Patologica SIAPEC-IAP”, 12-14 Ottobre 2017, Napoli, Italia.
- 71: “Congresso Nazionale della Associazione Italiana di Oncologia Medica – AIOM”, 27-29 Ottobre 2017, Roma, Italia.
- 72: “Next Generation Sequencing to Next Generation Oncologist”, 20 Novembre 2017, Istituto Mario Negri, Milano, Italia.
- 73: “VI Molecular Cytopathology”, 4 Dicembre 2017, Napoli, Italia.
- 74: "Next generation network: from the knoledge to know – how. focus on liquid biopsy”, 11 Dicembre 2017, Napoli, Italia.
- 75: “Oltre la 1^ linea: il percorso terapeutico del paziente con mRCC”, 19 Dicembre 2017, Napoli, Italia.
- 76: “IPF Connect 2.0”, 1 Febbraio 2018, Catania, Italia.
- 77: “IX Molecular Cytopathology”, 4 Dicembre 2020, Napoli, Italia.
- 78: Hot Topic Liquid Biopsy IASLC, Worldwide wirtual event, 2 -3 Ottobre 2020.
- 79: 16º CONGRESO URUGUAYO DE ONCOLOGIA, 18 Novembre 2020 (web – based), Montevideo, Uruguay.
- SOHC 2020, National Switzerland Congress of Oncology and Hematology, (we – based) Ginevra, Svizzera.

- European Congress of Pathology 2020, Thermo Fisher Scientific – Symposium, web based, 7 Dicembre 2020.
- Focus on uncommon EGFR mutations in NSCLC: for pathologists. 16 e 23 Marzo 2021.
- Track Member for Liquid Biopsy and other non invasive biomarkers and Discussant. WCLC 2021.
- WCLC 2025 Conference Co-Chair. 6 – 9 Settembre 2025, Barcellona, Spagna.
- Organizzatore e speaker al https://www.hkiof.org/HKIOF2025-e-programme.pdf
- Dal bench alla pratica clinica – 15-16/09 – Caserta – Responsabile Scientifico
- Biomarcatori Predittivi nei Tumori Solidi: Dalla Patologia Molecolare alla Personalizzazione Terapeutica – 11/07/2025 – Pompei – Responsabile Scientifico
- Biopsia liquida nel tumore della mammella: sinergia tra infermiere, patologo molecolare e oncologo – 19/08 e 15/12 – Webinar – Responsabile Scientifico
- Bridge the Gap in Cholangiocarcinoma – 09/07/2025 – Napoli – Responsabile Scientifico
- Armonizzazione delle procedure diagnostiche ai fini di una selezione accurata dei trattamenti: un focus sul carcinoma della mammella – 19/06-23/09 – Napoli – Responsabile Scientifico
- YMP (Young Molecular Pathologists) – 9-10/05/2025 – Roma – Responsabile Scientifico
- IL RUOLO DELLA BIOPSIA LIQUIDA NEL CARCINOMA DELLA PROSTATA – 06/06/2025 – Napoli – Responsabile Scientifico
- Il tumore della Mammella nell'era della Patologia Molecolare – 28/05/2025 – Webinar – Responsabile Scientifico
- Biomarcatori Predittivi nei Tumori Solidi: Dalla Patologia Molecolare alla Personalizzazione Terapeutica – 4-5/04/2025 – Napoli – Responsabile Scientifico
- hyperAKTion 2.0 - Il percorso dei pazienti con carcinoma mammario HR+ HER2- e mutazioni del pathway di AKT – 7-8/04/2025 – Napoli – Responsabile Scientifico
- Biopsia liquida nel tumore della mammella: sinergia tra infermiere, patologo molecolare e oncologo – 16/04/2025 – Napoli – Responsabile Scientifico
- Oncogynecology Diagnostics Summit – 3ª Edizione – 20-21 marzo 2025 – Torino – Responsabile Scientifico
- Caffè con l'esperto - XXII Ed. FOCUS SUL CARCINOMA MAMMARIO – 21/02/2025 – Webinar – Responsabile Scientifico
- La caratterizzazione morfomolecolare nei tumori ginecologici – 02/12/2025 – Webinar – Responsabile Scientifico

- World Conference of Lung Cancer (WCLC) 2025 – 6-9/09/2025 – Barcellona – Responsabile Scientifico
- XI Incontro Gruppo Italiano di Patologia Molecolare e Medicina di Precisione – 11-12/04/2025 – Firenze – Responsabile Scientifico
-

Premi:

2009: Best Cytopathology Study Award, 22nd European Congress of Pathology, Firenze, Italia.

2021: Frontiers in Oncology - GYN Associate Editorial Recognition Award.

2025: SIUrO-Società Italiana di Urologia Oncologica -Traslational research Award

Scopus

Numero di citazioni: 10,141

H-index: 55

Google Scholar

Numero di citazioni: 12897

H-index: 62

Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e del GDPR (Regolamento UE 2016/679).

01/09/2026

Umberto Malapelle

