

Personal informations

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Present position

Full Professor, Anatomic Pathology (SSD MED08).

Head of the Department of Public Health, University of Naples Federico II, Naples, Italy.

Head of the "Programma Infradipartimentale di Citopatologia e Patologia Molecolare Predittiva", Department of Public Health, University of Naples Federico II, Naples, Italy.

Degrees

- 1985 Degree in Medicine with full marks and laude at the University of Naples.
- 1989 Specialty in Pathology with full marks and laude at the University of Naples.
- 1994 PhD in Pathology.
- 1997 Certificate of Proficiency in English University of Cambridge.

Academic and scientific positions

- 1994-95-96-97 Faculty of Medicine and Surgery, University of Reggio Calabria. School of Specialization in Oncology Holder of the private law contract (DPR 382/1980; DPR 162/82) for carrying out as Contract Professor for the academic years 1994/95, 1995/96 and 1996/97 of the integrated course: "Applicazione dell'ibridizzazione in situ nella diagnostica oncologica" within the official teaching of "Morfologia dei tumori. Diagnostica ultrastrutturale dei tumori".
- 1996-97 Faculty of Pharmacy, University of Reggio Calabria. Performs for the academic year 1996/97 the "Cytopathology" course, supplementary to the official "Human Anatomy" course, in compliance with the provisions of ex art. 100 of Presidential Decree 382/80.
- 1996-97-98-99 Faculty of Medicine and Surgery, University of Federico II, Naples. Holder of the private law contract (Presidential Decree 382/1980; Presidential Decree 162/82) for carrying out as Contract Professor for the academic years 1996/97, 1997/98 and 1998/99 of the integrated course of "Diagnostiche, tecniche istologiche ed immunocitochimiche" at the School of Specialization in Anatomic Pathology.
- 2000-13 Faculty of Medicine and Surgery, Federico II University, Naples. Didactic activity as University Researcher, Disciplinary Sector Anatomic Pathology F06A in the Degree Course in Medicine and Surgery.
- 2002-15 Faculty of Biotechnological Sciences, Federico II University, Naples. Teaching for the academic years 2002-03, 2003-04, 2004-05, 2005-06, 2006-07, 2007-08, 2008-09, 2009-10, 2010-11, 2011-12 2012 -13 2013-14 2014-15 Disciplinary sector Anatomic Pathology F06A in the Master's Degree course in Biotechnological Sciences with a medical focus.
- 2000-16 Faculty of Medicine and Surgery, Federico II University, Naples. Didactic activity as University Researcher, then as Associate Professor, Disciplinary Sector Anatomic Pathology F06A in the degree course in Medicine and Surgery
- 2000-16 Faculty of Medicine and Surgery, Federico II University, Naples. Didactic activity first as University Researcher then as Associate Professor, Disciplinary Sector Anatomic Pathology F06A in the degree course in Biomedical Laboratory Technician.
- 2000-13 Faculty of Medicine and Surgery, Federico II University, Naples. Member of the teaching staff of the School of Specialization in Anatomic Pathology.
- 2001-13 Member from cycle XVI of the Board of Professors of the International PhD program in Endocrinology and Molecular Oncology established by the University of Naples in association

with Johns Hopkins University (Baltimore, MD), Thomas Jefferson University (Philadelphia, PA), National Institutes of Health (Bethesda, MD), Universidad Autonoma de Madrid (Spain), Centro de Investigaciones Oncologicas (CNIO, Spain), Universidade Federal de Sao Paulo (Brazil), Albert Einstein College of Medicine of Yeshiva University (USA) and Université Paris XI (France). Activity carried out in the form of mentoring teacher.

- 2002-12 Tutor activity in the context of the PhD program in Clinical and Pathological Morphology starting from cycle XVII
- 2012-16 Member from cycle XVI onwards of the Board of Professors of the PhD program in Clinical and Pathological Morphology from cycle XVII
- 2016-present Coordinator for cycles XXXII, XXXIII, XXXIV: PhD program in Public Health and Preventive Medicine, University of Naples Federico II

Fellowships

- 1988 Ministero della Pubblica Istruzione Fellowship. Attends the Nuffield Department of Pathology, University of Oxford, United Kingdom, directed by Prof. JO'D McGee.
- 1992 Italy/USA Scientific Agreement on Cancer Research Fellowship. Attends the Cytopathology Section, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, USA directed by Dr. P.K. Gupta
- 1994 Lega Italiana per la Lotta contro i Tumori (G.U. 22/2/94) Fellowship.
- 1995 Fondo de Investigaciones Sanitarias (FIS 92/0721) Fellowship, Spain. Attends the Laboratory of Pathology, Hospital Virgen de la Salud, Toledo, Spagna directed by Dr. MA Piris
- 2005-08 Integrated Actions Italy-Spain, MIUR Fellowship.

Scientific activity at foreign institutions

- 1989-1991 He attends the Nuffield Department of Pathology, University of Oxford, United Kingdom for two years, directed by Prof. JO'D McGee. He learns isotopic and non-isotopic in situ hybridization methods. Develop an in situ hybridization protocol to search for the human papilloma virus (HPV) genome in routine cervical smears. He is the author of five publications on the methodology and clinical application of in situ hybridization methods in Anatomic Pathology.
- 1993 He attends the Cytopathology Section, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, USA for six months, directed by Dr. P.K. Gupta. He carries out both exfoliative and aspirative cytological diagnostic activities. He is the first author of a study concerning the diagnostic predictivity of non-classical minor cytological signs of HPV infection.
- 1995 He attends for six months the Anatomic Pathology Laboratory of the Gregorio Maranon Hospital, Madrid and the Onco-Hematology Laboratory of the Virgen de la Salud Hospital, Toledo, Spain directed by Dr. MA Piris. He is the first author of a study concerning the immunocytochemical expression of p53, p21 / WAF1 proteins in relation to the presence of HPV infection.
- 1996 He attended the laboratory at the Department of Pathology of Deaconess Hospital, Harvard Medical School, Boston, USA. He studies the expression of cyclin-dependent kinase inhibitors in cervical neoplasia. He is the first author of a study concerning the immunocytochemical expression of the p27 protein in relation to the presence of HPV infection.
- 2005-08 Weekly internships on a quarterly basis at the Laboratory of the Molecular Pathology Program directed by Dr. M.A. Piris, Centro de Investigaciones Oncologicas Carlos III (CNIO), Madrid, Spain, in the context of the MIUR program of Italy-Spain Integrated Actions research coordinated by Prof. Lucio Palombini.
- 2015 Internship at the Molecular Genetics and Genomics Program at Yale Cancer Center. He Visits the Pathology Department's Molecular Tumor Profiling Laboratory at Smilow Cancer Hospital; meets the Technical Director Dr Zenta Walters and with Dr Jefferey Sklar, Scientific Director of the Tumor Profiling Laboratory. Participation in the Yale Cancer Center

Molecular Tumor Board. He visits the Dr Bonnie Gould-Rotheberg's IonTorrent Next Generation Sequencing Lab. He visits the Dr Abhijit Patel's research laboratory to discuss and observe the sequencing of free DNA circulating from the blood. He meets Dr David Rimm, Director of the Yale Pathology Tissue Services and Ad-Interim Clinical Director of the Molecular Tumor Profiling Service

Activities in projects funded by AIRC, CNR, MIUR and the Campania Region

- 1991-92-93 Member of the research group funded by the AIRC for 1991-92-93: "Il c-erbB2 nella strategia diagnostica e prognostica delle proliferazioni mammarie".
- 1992-93-94 Member of the research group funded by ACRO / CNR for 1992-93-94: "La ricerca dell'HPV in strisci cervicali di routine: un programma di screening e follow-up tramite ibridizzazione in situ non istopica (NISH)".
- 1995-96 Member of the research group funded by ACRO / CNR for 1995-96: "L'espressione della proteine bcl-2, p53, mdm2, p21 nelle lesioni displastiche e neoplastiche della cervice uterina."
- 2001-2003 Member of the research group funded by the Ministry of Scientific Research (PRIN) for the year 2001 (Protocol 2001068493) coordinator Prof. Lucio Palombini entitled: "Il rapporto tra l'espressione delle proteine p27Kip1, p38Jab1 e Skp2 e la percentuale di cellule apoptotiche in campioni di tiroidite di Hashimoto ottenuti tramite biopsia per ago sottile." Commitment made for the 1 year: 5 months; commitment carried out for the 2nd year: 5 months.
- 2002-2004 Member of the research group funded by the Ministry of Scientific Research (PRIN) for the year 2002 (Protocol 2002061532-001) coordinator Prof. Lucio Palombini entitled: "Analisi del ruolo dei regolatori del ciclo cellulare pThr187-p27, Skp2, Aurora A ed Aurora B nella neoplasia tiroidea". 1 year commitment: 3 months; commitment carried out for the 2nd year: 5 months.
- 2003-2004 Member of the research group funded by the Campania Region: (BURC 12-2-01) "L'espressione di p27 e delle proteine che ne regolano l'abbondanza nel carcinoma tiroideo diagnosticato tramite biopsia aspirativa." Scientific Responsible Prof. L. Palombini.
- 2005-2006 Member of the research group funded by the Campanian Region in the context of the L.R. N.5 del 28.03.2002 "Ruolo della serina/treonina chinasi PKB/AKT nella regolazione della localizzazione subcellulare di p27/Kip1: un nuovo meccanismo di progressione tumorale operante nella neoplasia tiroidea."
- 2005-2008 Member of the research group funded by MIUR within the Italy-Spain Integrated Actions Program: (IT1816): "Il ruolo della chinasi Akt nella regolazione dei meccanismi di controllo della crescita cellulare in neoplasie epiteliali ed ematologiche: una azione integrata italo-spagnola" in collaboration with Dr. Miguel Angel Piris of the Programa de Pathology Molecular Centro Nacional de Investigaciones Oncologicas Madrid.
- 2007-2008 Member of the research group involved in the implementation of the project "Nuovi marcatori molecolari nella diagnosi citologica del nodulo tiroideo " funded by the Campania Region.
- 2009-2012 Head of the PRIN Operational Project (year 2008) "Valutazione istomorfologica ed immunofenotipica degli effetti del trattamento combinato con rapamicina ed acido chetomellico sulla evoluzione della malattia policistica del ratto PCK "

Foreign

languages

- 1989 First Certificate in English, University of Cambridge Local Examination Syndicate, Oxford 1989
- 1998 Proficiency in English, University of Cambridge Local Examination Syndicate, Naples 1998
- Excellent knowledge of the Spanish language

Awards

- 1995 Award for one of the best works presented at the IV Congresso Nazionale della Federazione Italiana delle Società di Anatomia Patologica e Citologia Diagnostica (FISAPEC), Abano Terme October 6-10, 1995.
- 1997 Award conferred the best works presented at the Congresso Italiano di Anatomia, Istologia e Citologia Patologica, Pisa 21-24 May 1997.

Conference

activity

Meeting director and organizer of the international congress "Molecular Cytopathology" held annually in Naples and now in its tenth edition (2021) focused on recent advances in the field of cytopathology and predictive molecular pathology on cytological samples.

PhD

thesis

mentorship

- 1) Dr. Eliana Guerriero: "UbcH10 is useful in the diagnosis and prognosis of human neoplasms". University Federico II open archive: <http://www.fedoa.unina.it/3944>
- 2) Dr. Alessia Caleo : "Nuove prospettive molecolari nella diagnosi citologica preoperatoria del nodulo tiroideo" University Federico II open archive: <http://www.fedoa.unina.it/3327>
- 3) Dr. Antonino Iaccarino. "Nuovi marcatori nella diagnosi citologica dl nodulo tiroideo". University Federico II open archive: <http://www.fedoa.unina.it/8991>
- 4) Malapelle, Umberto (2013) "Valutazione dello stato mutazionale degli oncogeni predittivi di risposta terapeutica al trattamento di EGFR: validazione analitica e clinica." University Federico II open archive: <http://www.fedoa.unina.it/9439/>.
- 5) Dr Bellevicine, Claudio (2015). "La rilevazione dello stato mutazionale di EGFR su campione citologico di neoplasia polmonare a cellule non piccole: il ruolo dell' anatomico patologo nella validazione analitica e clinica." University Federico II open archive: <http://www.fedoa.unina.it/view/creators/Bellevicine=3AClaudio=3A=3A.html>
- 6) Dr Vigliar, Elena (2017). "Integration of Next-generation sequencing technologies in pathological diagnostics." University Federico II open archive: <http://www.fedoa.unina.it/id/eprint/11491>
- 7) Dr Sgariglia, Roberta (2018). "Development, validation, comparison and clinical implementation of different multigene assays for the pre-surgical risk stratification of indeterminate thyroid fine needle aspirations." University Federico II open archive: <http://www.fedoa.unina.it/12644/>
- 8) Dr Pepe, Francesco (2018). "Application of Next Generation Technologies in liquid biopsy: focus on Non Small Cell Lung Cancer and Metastatic Colorectal Cancer." University Federico II open archive: <http://www.fedoa.unina.it/id/eprint/12643>
- 9) Dr De Luca, Caterina (2017). "Validation of an automatic system real-time pcr to perform predictive molecular tests on cytological samples." University Federico II open archive: <http://www.fedoa.unina.it/id/eprint/12044>
- 10) Dr Greco Lorenza (2020). "Next Generation Sequencing for gene fusions detection in Non Small Cell Lung Cancer". University Federico II open archive: <http://www.fedoa.unina.it/13119/>

Clinical

activity

- 1985-1989 Histo-cyto-pathological diagnostic activity within the training program of the School of Specialization in Anatomic Pathology of the University of Naples.
- 1991-2000 Cytopathology service and laboratory of the Federico II University of Naples. Gain experience in vaginal and extrvaginal exfoliative cytology and in the execution and interpretation of aspiration biopsies of palpable and deep lesions.
- 1994 Winner of the competition for Hospital Co-Head position in Anatomic pathology,

Santissimi Giovanni e Paolo Hospital, Venice.
 • 1994 Contract as Clinical Assistant in Cytopathology, Department of Cytopathology & Cytogenetics, St Mary's Hospital, London.
 • 1994 Achieves the Papnet Certification required for the diagnostic examination of cervico-vaginal smears examined with the Pap-net computer system after the course set up by NSI Europe B.V., Amsterdam 28-30 September 1994.
 • 1996-97-98-99 Local Health Authority Naples 1- District 52. He works as a specialist in Anatomic Pathology.
 • 1996-97-98-99 Local Health Authority Naples 1- District 45. He works as a specialist in Anatomic Pathology.
 • 1997-98-99 Local Health Authority Naples 4- District 77. He works as a specialist in Anatomic Pathology.
 • 1998 First level medical director - Anatomic Pathology for eight months (public notice) at the Salerno 2 Local Health Authority, Eboli Hospital.
 • 2000-present First level Medical Director, Assistance Department of Anatomic Pathology and Cytopathology, University Polyclinic, Federico II University, Naples.
 • 2005-2013 Head of the Functional Sector: Molecular biology and immunohistochemistry applied to cytopathology of the Assistance Department of Pathological Anatomy and Cytopathology, University Hospital, Federico II University, Naples.
 • 2014-present Head of PI of Molecular Biology in Cytopathology of the Integrated Care Department of Morphological and Functional Diagnosis of the University Polyclinic, Federico II University, Naples

Other

titles

- Member of the Permanent Commission of the College of Italian Professors of Pathological Anatomy which looks after the interests of the Discipline in the field of Research Doctorates, Masters and Advanced Courses.)
- Director of the Postgraduate Course in "Basi teoriche e metodologie di Anatomia Patologica per lo studio in citoistopatologia dei markers predittivi di risposta alla terapia mirata dei tumori solidi". (DR / 2011/3530 of 12/19/11)
- Coordinator of the Master in "Metodologie di Anatomia Patologica per lo studio di biomarcatori predittivi di risposta terapeutica" DR / 2012/3103 of 02/10/2012; DR / 2013/4034 of 12/12/2013

BIBLIOMETRY (sec. Scopus)

total publications: 322

H-index (Scopus, Author ID: 7004227365): 49

Total citations (Scopus): 8814

Principal publications

1. Malapelle U, Mayo-de-Las-Casas C, Molina-Vila MA, Rosell R, Savic S, Bihl M, Bubendorf L, Salto-Tellez M, de Biase D, Tallini G, Hwang DH, Sholl LM, Luthra R, Weynand B, Vander Borgh S, Missiaglia E, Bongiovanni M, Stieber D, Vielh P, Schmitt F, Rappa A, Barberis M, Pepe F, Pisapia P, Serra N, Vigliar E, Bellevicine C, Fassan M, Rugge M, de Andrea CE, Lozano MD, Basolo F, Fontanini G, Nikiforov YE, Kamel-Reid S, da Cunha Santos G, Nikiforova MN, Roy-Chowdhuri S, **Troncone G**; Molecular Cytopathology Meeting Group. Consistency and reproducibility of next-generation sequencing and other multigene mutational assays: A worldwide ring trial study on quantitative cytological molecular reference specimens. Cancer Cytopathol. 2017 Aug;125(8):615-626. doi: 10.1002/cncy.21868. Epub 2017 May 5. PMID: 28475299. **(last author and corresponding author)**
2. Pisapia P, Malapelle U, Roma G, Saddar S, Zheng Q, Pepe F, Bruzzese D, Vigliar E, Bellevicine C, Luthra R, Nikiforov YE, Mayo-de-Las-Casas C, Molina-Vila MA, Rosell R, Bihl

- M, Savic S, Bubendorf L, de Biase D, Tallini G, Hwang DH, Sholl LM, Vander Borgh S, Weynand B, Stieber D, Vielh P, Rappa A, Barberis M, Fassan M, Rugge M, De Andrea CE, Lozano MD, Lupi C, Fontanini G, Schmitt F, Dumur CI, Bisig B, Bongiovanni M, Merkelbach-Bruse S, Büttner R, Nikiforova MN, Roy-Chowdhuri S, **Troncone G**; Molecular Cytopathology Meeting Group. Consistency and reproducibility of next-generation sequencing in cytopathology: A second worldwide ring trial study on improved cytological molecular reference specimens. *Cancer Cytopathol.* 2019 May;127(5):285-296. doi: 10.1002/cncy.22134. Epub 2019 Apr 25. PMID: 31021538. **(last author and corresponding author)**
3. 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. **(last author and corresponding author)**
4. Malapelle U, Parente P, Pepe F, De Luca C, Cerino P, Covelli C, Balestrieri M, Russo G, Bonfitto A, Pisapia P, Fiordelisi F, D'Armiento M, Bruzzese D, Loupakis F, Pietrantonio F, Triassi M, Fassan M, **Troncone G**, Graziano P. Impact of Pre-Analytical Factors on MSI Test Accuracy in Mucinous Colorectal Adenocarcinoma: A Multi-Assay Concordance Study. *Cells.* 2020 Sep 2;9(9):2019. doi: 10.3390/cells9092019. PMID: 32887373; PMCID: PMC7565496. **(corresponding author)**
5. Nacchio M, Sgariglia R, Gristina V, Pisapia P, Pepe F, De Luca C, Migliatico I, Clery E, Greco L, Vigliar E, Bellevicine C, Russo A, **Troncone G**, Malapelle U. KRAS mutations testing in non-small cell lung cancer: the role of Liquid biopsy in the basal setting. *J Thorac Dis.* 2020 Jul;12(7):3836-3843. doi: 10.21037/jtd.2020.01.19. PMID: 32802465; PMCID: PMC7399406. **(corresponding author)**
6. Iaccarino A, Pisapia P, Pepe F, Sgariglia R, Nacchio M, Russo G, Gragnano G, De Luca C, **Troncone G**, Malapelle U. Liquid biopsy for BRAF mutations testing in non-small cell lung cancer: a retrospective study. *J Clin Pathol.* 2020 Dec 4;jclinpath-2020-207107. doi: 10.1136/jclinpath-2020-207107. Epub ahead of print. PMID: 33277344. **(corresponding author)**
7. Malapelle U, Pepe F, Pisapia P, Sgariglia R, Nacchio M, De Luca C, Lacalamita R, Tommasi S, Pinto R, Palomba G, Palmieri G, Vacirca D, Barberis M, Bottillo I, Grammatico P, Grillo LR, Costa V, Smeraglio R, Bruzzese D, **Troncone G**. Harmonization of Next-Generation Sequencing Procedure in Italian Laboratories: A Multi-Institutional Evaluation of the SiRe® Panel. *Front Oncol.* 2020 Mar 11;10:236. doi: 10.3389/fonc.2020.00236. PMID: 32219061; PMCID: PMC7078327. **(last author and corresponding author)**
8. Bellevicine C, Migliatico I, Sgariglia R, Nacchio M, Vigliar E, Pisapia P, Iaccarino A, Bruzzese D, Fonderico F, Salvatore D, Biondi B, Masone S, Novizio V, Scavuzzo F, Serino D, De Palma M, Chiofalo MG, Botti G, Pezzullo L, Nuzzo V, Spiezia S, De Chiara G, Iorio S, Conzo G, Docimo G, Faggiano A, Bongiovanni M, Malapelle U, Colao A, Triassi M, **Troncone G**; Tiroide Network. Evaluation of BRAF, RAS, RET/PTC, and PAX8/PPAR γ alterations in different Bethesda diagnostic categories: A multicentric prospective study on the validity of the 7-gene panel test in 1172 thyroid FNAs deriving from different hospitals in South Italy. *Cancer Cytopathol.* 2020 Feb;128(2):107-118. doi: 10.1002/cncy.22217. Epub 2019 Dec 10. PMID: 31821746. **(last author and corresponding author)**
9. Scimia M, Du J, Pepe F, Bianco MA, Russo Spena S, Patell-Socha F, Sun Q, Powell MJ, Malapelle U, **Troncone G**. Evaluation of a novel liquid biopsy-based ColoScape assay for mutational analysis of colorectal neoplasia and triage of FIT+ patients: a pilot study. *J Clin Pathol.* 2018 Dec;71(12):1123-1126. doi: 10.1136/jclinpath-2018-205412. Epub 2018 Oct 12. PMID: 30315134. **(last author)**
10. Pepe F, De Luca C, Smeraglio R, Pisapia P, Sgariglia R, Nacchio M, Russo M, Serra N, Rocco

- D, Battiloro C, Ambrosio F, Gragnano G, Vigliar E, Bellevicine C, **Troncone G**, Malapelle U. Performance analysis of SiRe next-generation sequencing panel in diagnostic setting: focus on NSCLC routine samples. *J Clin Pathol*. 2019 Jan;72(1):38-45. doi: 10.1136/jclinpath-2018-205386. Epub 2018 Oct 2. PMID: 30279174. **(corresponding author)**
11. Pisapia P, Pepe F, Smeraglio R, Russo M, Rocco D, Sgariglia R, Nacchio M, De Luca C, Vigliar E, Bellevicine C, **Troncone G**, Malapelle U. Cell free DNA analysis by SiRe ® next generation sequencing panel in non small cell lung cancer patients: focus on basal setting. *J Thorac Dis*. 2017 Oct;9(Suppl 13):S1383-S1390. doi: 10.21037/jtd.2017.06.97. PMID: 29184677; PMCID: PMC5676109. **(corresponding author)**
12. Malapelle U, Mayo de-Las-Casas C, Rocco D, Garzon M, Pisapia P, Jordana-Ariza N, Russo M, Sgariglia R, De Luca C, Pepe F, Martinez-Bueno A, Morales-Espinosa D, González-Cao M, Karachaliou N, Viteri Ramirez S, Bellevicine C, Molina-Vila MA, Rosell R, **Troncone G**. Development of a gene panel for next-generation sequencing of clinically relevant mutations in cell-free DNA from cancer patients. *Br J Cancer*. 2017 Mar 14;116(6):802-810. doi:10.1038/bjc.2017.8. Epub 2017 Feb 7. PMID: 28170370; PMCID: PMC5355934. **(last author and corresponding author)**
13. Bellevicine C, Sgariglia R, Malapelle U, Vigliar E, Nacchio M, Ciancia G, Eszlinger M, Paschke R, **Troncone G**. Young investigator challenge: Can the Ion AmpliSeq Cancer Hotspot Panel v2 be used for next-generation sequencing of thyroid FNA samples? *Cancer Cytopathol*. 2016 Nov;124(11):776-784. doi: 10.1002/cncy.21780. Epub 2016 Sep 26. PMID: 27717198. **(last author and corresponding author)**
14. De Luca C, Gragnano G, Pisapia P, Vigliar E, Malapelle U, Bellevicine C, **Troncone G**. EGFR mutation detection on lung cancer cytological specimens by the novel fully automated PCR-based Idylla EGFR Mutation Assay. *J Clin Pathol*. 2017 Apr;70(4):295-300. doi: 10.1136/jclinpath-2016-203989. Epub 2016 Aug 19. PMID: 27543600. **(last author and corresponding author)**
15. Malapelle U, de Luca C, Vigliar E, Ambrosio F, Rocco D, Pisapia P, Bellevicine C, **Troncone G**. EGFR mutation detection on routine cytological smears of non-small cell lung cancer by digital PCR: a validation study. *J Clin Pathol*. 2016 May;69(5):454-7. doi: 10.1136/jclinpath-2015-203429. Epub 2016 Feb 18. PMID: 26893402. **(last author and corresponding author)**
16. Malapelle U, Pisapia P, Sgariglia R, Vigliar E, Biglietto M, Carlomagno C, Giuffrè G, Bellevicine C, **Troncone G**. Less frequently mutated genes in colorectal cancer: evidences from next-generation sequencing of 653 routine cases. *J Clin Pathol*. 2016 Sep;69(9):767-71. doi: 10.1136/jclinpath-2015-203403. Epub 2016 Jan 21. PMID: 26797410; PMCID: PMC5036215. **(last author and corresponding author)**
17. 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. **(last author and corresponding author)**
18. Vigliar E, Pisapia P, Dello Iacovo F, Alcaraz-Mateos E, Ali G, Ali SZ, Baloch ZW, Bellevicine C, Bongiovanni M, Botsun P, Bruzzese D, Bubendorf L, Büttner R, Canberk S, Capitanio A, Casadio C, Cazacu E, Cochand-Priollet B, D'Amuri A, Davis K, Eloy C, Engels M, Fadda G, Fontanini G, Fulciniti F, Hofman P, Iaccarino A, Ieni A, Jiang XS, Kakudo K, Kern I, Kholova I, Linton McDermott KM, Liu C, Lobo A, Lozano MD, Malapelle U, Maleki Z, Michelow P, Mikula MW, Musayev J, Özgün G, Oznur M, Peiró Marqués FM, Poller D, Pyzlak M, Robinson B, Rossi ED, Roy-Chowdhuri S, Saieg M, Savic Prince S, Schmitt FC, Seguí Iváñez FJ, Štoos-Veić T, Sulaieva O, Sweeney BJ, Tuccari G, van Velthuysen ML, VanderLaan PA, Vielh P, Viola P, Voorham QJM, Weynand B, Zeppa P, Faquin WC, Pitman MB, **Troncone G**. COVID-19 pandemic impact on cytopathology practice in the post-lockdown period: An

international, multicenter study. Cancer Cytopathol. 2022 Jan 10. doi: 10.1002/cncy.22547. Epub ahead of print. PMID: 35006650. **(last author and corresponding author)**

19. Malapelle U, Pepe F, Pisapia P, Altimari A, Bellevicine C, Brunnström H, Bruno R, Büttner R, Cirnes L, De Andrea CE, de Biase D, Dumur CI, Ericson Lindquist K, Fontanini G, Gautiero E, Gentien D, Hofman P, Hofman V, Iaccarino A, Lozano MD, Mayo-de-Las-Casas C, Merkelbach-Bruse S, Pagni F, Roman R, Schmitt FC, Siemanowski J, Roy-Chowdhuri S, Tallini G, Tresserra F, Vander Borgh S, Vielh P, Vigliar E, Vita GAC, Weynand B, Rosell R, Molina Vila MA, **Troncone G**. Reference standards for gene fusion molecular assays on cytological samples: an international validation study. J Clin Pathol. 2021 Aug 24;jclinpath-2021-207825. doi: 10.1136/jclinpath-2021-207825. Epub ahead of print. PMID: 34429353. **(last author and corresponding author)**

20. Pepe F, Pisapia P, Russo G, Nacchio M, Pallante P, Vigliar E, De Angelis C, Insabato L, Bellevicine C, De Placido S, **Troncone G**, Malapelle U. BRCA1/2 NGS Somatic Testing in Clinical Practice: A Short Report. Genes (Basel). 2021 Nov 28;12(12):1917. doi: 10.3390/genes12121917. PMID: 34946865; PMCID: PMC8702012. **(corresponding author)**