

Brief CV

Claudio Bellevicine MD, PhD.

Date of birth: 21 September 1982

Position: Researcher in Anatomic Pathology

Department of Public Health, Anatomic Pathology and Cytopathology Division.

School of Medicine, University of Naples Federico II, Naples, Italy

C.F. BLLCLD82P21F839U

Papers: 53

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Citations 388

Education and Professional Experience

2007 Medical degree, summa cum laude. School of Medicine, University of Naples Federico II

2013 Specialty in Anatomic Pathology, summa cum laude, School of Medicine, University of Naples Federico II

2015 PhD in Clinical and Pathological Morphology, School of Medicine, University of Naples Federico II

April 2008 Research Partnership Italy-Spain. Molecular Pathology Laboratory (Prof. M. A. Pirirs) Centro Nacional de Investigaciones Oncologicas (CNIO), Madrid, Spain.

October 2010 Training in “Laser capture microdissection with PALM MicroBeamsystem (Zeiss), Molecular Diagnostics Unit (Prof. Luis Lombardia), Centro Nacional de Investigaciones Oncologicas (CNIO), Madrid, Spain.

Participation in National and International Projects

2008-2010 Research group member, Italy-Spain Partnership (MIUR grant, IT1816). *Role of aktinase in growth control of hematological and solid neoplasms*. In collaboration with Dr. Miguel Angel Piris del Programa de Patologia Molecular Centro Nacional de Investigaciones Oncologicas Madrid, Spain.

2009-2012 Project PRIN Member: *Histological and immunohistochemical effects of combined administration of rapamycin, tolvaptan, and AEZ-131 on the progression of polycystic disease in PCK rats*.

Awards

December 2012: Premio Iacobelli 2012 Best Original Poster, Azienda Ospedaliera dei Colli – Monaldi Cotugno CTO, Napoli

September 2014: European Congress of Cytology, Geneva, Switzerland. Oral Paper, second prize: *A comparative study of 3715 thyroid FNAs with ultrasound guidance performed by a cytopathologist versus a non-cytopathologist: Evidence for the improved diagnostic value of the Interventional Pathology*.

Languages

Italian: native speaker

English: intermediate

Memberships

SIAPEC-AIT Italian Society of Anatomic Pathology and Cytopathology.

European Thyroid Association.

ENET Naples (2013-2017)

Clinical and diagnostic skills.

-Interventional cytopathologist performing both ultrasound-guided FNAs (thyroid, breast, salivary gland and lymph node) independently, and rapid on-site evaluations for CT-guided lung FNAs and EUS-guided pancreas FNAs.

- Integration of morphological, immunohistochemical and molecular data for diagnostic, prognostic and predictive purpose in oncologic pathology. Evaluation of immunohistochemical marker (e.g. chromogranin and synapthofisin) and proliferative index (Ki-67) in cell-block obtained from pancreatic and gastrointestinal neuroendocrine tumors.

-Participation to multidisciplinary NET board.

-Implementation of molecular biology assays on thyroid FNAs for the pre-operative risk stratification of indeterminate thyroid nodules.

Papers

Bellevicine C, Vigliar E, Malapelle U, Pisapia P, Conzo G, Biondi B, Vetrani A, Troncone G. Cytopathologists can reliably perform ultrasound-guided thyroid fine needle aspiration: a 1-year audit on 3715 consecutive cases. *Cytopathology*. 2016 Apr;27(2):115-21. doi: 10.1111/cyt.12243. Epub 2015 Mar 21. PubMed PMID: 25810099.

Bellevicine C, Vigliar E, Malapelle U, Carelli E, Fiorelli A, Vicidomini G, Cappabianca S, Santini M, Troncone G. Lung adenocarcinoma and its thyroid metastasis characterized on fine-needle aspirates by cytomorphology, immunocytochemistry, and next-generation sequencing. *Diagn Cytopathol*. 2015 Jul;43(7):585-9. doi: 10.1002/dc.23264. Epub 2015 Apr 21. PubMed PMID: 25900221.

Malapelle U, Vatrano S, Russo S, **Bellevicine C**, de Luca C, Sgariglia R, Rocco D, de Pietro L, Riccardi F, Gobbin E, Righi L, Troncone G. EGFR mutant allelic-specific imbalance assessment in routine samples of non-small cell lung cancer. *J Clin Pathol*. 2015 Sep;68(9):739-41. doi: 10.1136/jclinpath-2015-203101. Epub 2015 Jun 5. PubMed PMID: 26047622.

Della Corte CM, **Bellevicine C**, Vicidomini G, Vitagliano D, Malapelle U, Accardo M, Fabozzi A, Fiorelli A, Fasano M, Papaccio F, Martinelli E, Troiani T, Troncone G, Santini M, Bianco R, Ciardiello F, Morgillo F. SMO Gene Amplification and Activation of the Hedgehog Pathway as Novel Mechanisms of Resistance to Anti-Epidermal Growth Factor Receptor Drugs in Human Lung Cancer. *Clin Cancer Res*. 2015 Oct 15;21(20):4686-97. doi: 10.1158/1078-0432.CCR-14-3319. Epub 2015 Jun 29. PubMed PMID: 26124204.

Malapelle U, De Stefano A, Carlomagno C, **Bellevicine C**, Troncone G. Next-generation sequencing in the genomic profiling of synchronous colonic carcinomas: comment on Li et al (2015). *J Clin Pathol*. 2015 Nov;68(11):946-7. doi: 10.1136/jclinpath-2015-203205. Epub 2015 Jul 2. PubMed PMID: 26139632.

Lucci R, Vigliar E, Malapelle U, Cigliano B, Troncone G, **Bellevicine C**. Fine-needle aspiration findings in focal (nodular) myositis of a newborn: A case report. *Diagn Cytopathol*. 2015 Nov;43(11):920-3. doi: 10.1002/dc.23309. Epub 2015 Jul 14. PubMed PMID: 26173198.

Ippolito S, **Bellevicine C**, Arpaia D, Peirce C, Ciancia G, Vigliar E, Troncone G, Biondi B. Spindle epithelial tumor with thymus-like differentiation (SETTLE): clinical-pathological features, differential pathological diagnosis and therapy. *Endocrine*. 2016 Mar;51(3):402-12. doi: 10.1007/s12020-015-0716-5. Epub 2015 Aug 20. PubMed PMID: 26289127.

Vigliar E, Malapelle U, de Luca C, **Bellevicine C**, Troncone G. Challenges and opportunities of next-generation sequencing: a cytopathologist's perspective. *Cytopathology*. 2015 Oct;26(5):271-83. doi: 10.1111/cyt.12265. Review. PubMed PMID: 26399861.

Fiume G, Scialdone A, Albano F, Rossi A, Tuccillo FM, Rea D, Palmieri C, Caiazzo E, Cicala C, **Bellevicine C**, Falcone C, Vecchio E, Pisano A, Ceglia S, Mimmi S, Iaccino E, de Laurentiis A, Pontoriero M, Agosti V, Troncone G, Mignogna C, Palma G, Arra C, Mallardo M, Buonaguro FM, Scala G, Quinto I. Impairment of T cell development and acute inflammatory response in HIV-1 Tat transgenic mice. *Sci Rep*. 2015 Sep 7;5:13864. doi: 10.1038/srep13864. PubMed PMID: 26343909; PubMed Central PMCID: PMC4561375.

Pellino G, Pallante P, Malapelle U, Ferraro A, **Bellevicine C**, Milone M, Troncone G, Fusco A, Selvaggi F; INSIghT-R Collaborative. UbcH10 overexpression is less pronounced in older colorectal cancer patients. *Int J Colorectal Dis*. 2016 Jan 7. [Epub ahead of print] PubMed PMID: 26744065.

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de Biase D, de Luca C, Gagnano G, Visani M, **Bellevicine C**, Malapelle U, Tallini G, Troncone G. Fully automated PCR detection of KRAS mutations on pancreatic endoscopic ultrasound fine-needle aspirates. *J Clin Pathol*. 2016 Apr 27. pii: jclinpath-2016-203696. doi: 10.1136/jclinpath-2016-203696. [Epub ahead of print] PubMed PMID: 27122185.

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 Jan 21. pii: jclinpath-2014-202761. doi: 10.1136/jclinpath-2014-202761.

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.

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.

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.* 2014 Nov 7. doi: 10.1111/cyt.12221.

Vigliar E, Varone V, Pettinato G, **Bellevicine C**, Troncone G. How should a follicular adenoma with papillary architecture be classified on thyroid FNA? Case report with histological correlation. *Cytopathology.* 2014 Jul 30.

Performance of EGFR mutant-specific antibodies in different cytological preparations: a validation study. **Bellevicine C**, Bianco A, Malapelle U, De Luca C, Vigliar E, Cacciola NA, Pallante P, Troncone G. *Cytopathology.* 2014 May 15.

CD10 is useful to identify gastrointestinal contamination in endoscopic ultrasound-guided fine needle aspiration (EUS-FNA) cytology from pancreatic ductal adenocarcinoma. Vigliar E, Troncone G, Bracale U, Iaccarino A, Napolitano V, **Bellevicine C**. *Cytopathology.* 2014 Apr 22.

Ciliated foregut cyst of the pancreas: A benign lesion with elevated CEA levels. **Bellevicine C**, Vigliar E, Pisapia P, de Luca C, Mazzeola C, Napolitano V, Troncone G. *Diagn Cytopathol.* 2014 Mar 28.

Effects of combined administration of rapamycin, tolvaptan, and AEZ-131 on the progression of polycystic disease in PCK rats. Sabbatini M, Russo L, Cappellaio F, Troncone G, **Bellevicine C**, De Falco V, Buonocore P, Riccio E, Bisesti V, Federico S, Pisani A. *Am J Physiol Renal Physiol.* 2014 May 15;306(10):F1243-50.

EGFR analysis: Current evidence and future directions. **Bellevicine C**, Malapelle U, de Luca C, Iaccarino A, Troncone G. *Diagn Cytopathol.* 2014 Mar 12.

Next-generation sequencing of lung cancer EGFR exons 18-21 allows effective molecular diagnosis of small routine samples (cytology and biopsy). de Biase D, Visani M, Malapelle U, Simonato F, Cesari V, **Bellevicine C**, Pession A, Troncone G, Fassina A, Tallini G. *PLoS One.* 2013 Dec 23;8(12):e83607.

Applications and limitations of oncogene mutation testings in clinical cytopathology. **C. Bellevicine**, G. Vita, U. Malapelle, G. Troncone *Seminars in diagnostic pathology* 13 November 2013 (Article in Press DOI: 10.1053/j.semmp.2013.11.008)

MASC is indistinguishable from acinic cell carcinoma, papillary-cystic variant on salivary gland FNA cytology: case report with histological and immunohistochemical correlates. **Bellevicine C**, Natella V, Somma A, De Rosa G, Troncone G. *Cytopathology.* 2013 Oct 21.

KRAS testing in metastatic colorectal carcinoma: challenges, controversies, breakthroughs and beyond. Malapelle U, Carlomagno C, de Luca C, **Bellevicine C**, Troncone G. *J Clin Pathol.* 2013 Sep 10

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

EGFR mutation detection by microfluidic technology: a validation study. Malapelle U, Russo S, Pepe F, Sgariglia R, De Luca C, **Bellevicine C**, Pallante P, Troncone G. *J Clin Pathol*. 2013 Nov;66(11):982-4.

EGFR mutations detected on cytology samples by a centralized laboratory reliably predict response to gefitinib in non-small cell lung carcinoma patients.

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. *Cancer Cytopathol*. 2013 Oct;121(10):552-60.

Warthin tumor with signet-ring cell features as a pitfall in salivary gland cytopathology. **Bellevicine C**, Iaccarino A, Malapelle U, Troncone G. *Acta Cytol*. 2013;57(3):309-12.

Diffuse large B-cell extranodal lymphoma of the uterine cervix: An incidental pap smear finding with histological and immunohistochemical correlation. **Bellevicine C**, Zabatta A, Malapelle U, Vetrani A, Troncone G. *Diagn Cytopathol*. 2013 Feb 26.

UbcH10 overexpression in human lung carcinomas and its correlation with EGFR and p53 mutational status. 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. *Eur J Cancer*. 2013 Mar;49(5):1117-26.

Cytological and molecular features of papillary thyroid carcinoma with prominent hobnail features: a case report. **Bellevicine C**, Cozzolino I, Malapelle U, Zeppa P, Troncone G. *Acta Cytol*. 2012;56(5):560-4.

Cytologically undetermined thyroid's follicular lesions: surgical procedures and histological outcome in 472 cases. Conzo G, Troncone G, Docimo G, Pizza A, Sciascia V, **Bellevicine C**, Napolitano S, Della Pietra C, Palazzo A, Signoriello G, Santini L. *Ann Ital Chir*. 2013 May-Jun;84:251-6.

Pure primary squamous cell carcinoma of the breast presenting as an intracystic tumor. Accurso A, Pettinato G, Ciancia G, **Bellevicine C**, Riccardi A, Rocco N. *Breast J*. 2012 Nov-Dec;18(6):608-9.

Foamy gland pancreatic ductal adenocarcinoma diagnosed on EUS-FNA: a histochemical, immunohistochemical, and molecular report. **Bellevicine C**, Malapelle U, Iaccarino A, Schettino P, Napolitano V, Zeppa P, Troncone G. *Diagn Cytopathol*. 2013 Jan;41(1):77-80.

Histological and fine needle aspiration cytological features of Hashimoto thyroiditis-associated 'angiomatoid' papillary thyroid carcinoma. Vigliar E, **Bellevicine C**, Cozzolino I, Zeppa P. *Cytopathology*. 2012 Dec;23(6):415-7.

Sanger sequencing in routine KRAS testing: a review of 1720 cases from a pathologist's perspective. 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. *J Clin Pathol*. 2012 Oct;65(10):940-4.

KRAS mutation detection by high-resolution melting analysis significantly predicts clinical benefit of cetuximab in metastatic colorectal cancer. 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. Br J Cancer. 2012 Aug 7;107(4):626-31.

Ultimobranchial body remnants (solid cell nests) as a pitfall in thyroid pathology. **Bellevicine C**, Ippolito S, Arpaia D, Ciancia G, Pettinato G, Troncone G, Biondi B. J Clin Endocrinol Metab. 2012 Jul;97(7):2209-10.

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

Multicentric encapsulated papillary oncocyctic neoplasm of the thyroid: A case diagnosed by a combined cytological, histological, immunohistochemical, and molecular approach. **Bellevicine C**, Malapelle U, Docimo G, Ciancia G, Mossetti G, Pettinato G, Troncone G. Diagn Cytopathol. 2012 May;40(5):450-4.

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

Cytology-based gene mutation tests to predict response to anti-epidermal growth factor receptor therapy: a review. Malapelle U, **Bellevicine C**, Zeppa P, Palombini L, Troncone G. Diagn Cytopathol. 2011 Sep;39(9):703-10.

Herbal hepatotoxicity: a case of difficult interpretation. Valente G, Sanges M, Campione S, **Bellevicine C**, De Franchis G, Sollazzo R, Mattera D, Cimino L, Vecchione R, D'Arienzo A. Eur Rev Med Pharmacol Sci. 2010 Oct;14(10):865-70.

In vivo histological assessment of a spontaneous coronary artery dissection. Briguori C, **Bellevicine C**, Visconti G, Focaccio A, Aprile V, Troncone G. Circulation. 2010 Sep 7;122(10):1044-6.

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

Check Samples

Claudio Bellevicine, Valeria Varone, Umberto Malapelle, and Giancarlo Troncone. BRAF Testing in Routine Thyroid Cytology Practice No. C 11-3 (C-441) Am J Clin Pathol 2012;137:320-333.

Giancarlo Troncone, Valeria Varone, **Claudio Bellevicine**, and Umberto Malapelle. KRAS Testing: Role, Methods and Sampling, and Cytopreparatory Issues No. C 11-11 (C-449) Am J Clin Pathol 2012;137:320-333.

Book Chapters

Malapelle U, **Bellevicine C**, Pustzai L, Troncone G. Chapter 11: Thyroid Carcinoma: Molecular Signature by Histotype-Specific Mutations Gene Expression Patterns. Diagnostic, Prognostic and Therapeutic Value of Gene Signatures. Editors: Antonio Russo, Stefano Iacobelli. Humana Press. Springer. ISBN 978-1-61779-357-8.

Varone V, **Bellevicine C**, and Troncone G, University of Naples Federico II, Naples, Italy 1.22 Biopsic Sampling (Cancer) In *Comprehensive Sampling and Sample Preparation*; Pawliszyn, J.,

Bayona, J. M., Eds; Elsevier, Academic Press: Oxford, UK, pp 413–439, 2012. ISBN: 9780123813732

CV

Claudio Bellevicine MD, PhD.

Data di nascita: 21 Settembre 1982

Posizione: Ricercatore RTD tipo A.

Dipartimento di Sanità Pubblica, Unità di Anatomia Patologica e Cytopatologia.

Scuola di Medicina, Università di Napoli Federico II, Napoli, Italia

Papers: 53

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Citazioni 388

Formazione ed esperienze professionali

2007 Laurea Magistrale in Medicina e Chirurgia, summa cum laude. Scuola di Medicina, Università di Napoli Federico II, Napoli, Italia

2013 Specialista in Anatomia Patologica, summa cum laude, Scuola di Medicina, Università di Napoli Federico II, Napoli, Italia

2015 PhD in Patologia Clinica e morfologica, Scuola di Medicina, Università di Napoli Federico II, Napoli, Italia

Aprile 2008 Research Partnership Italy-Spain. Molecular Pathology Laboratory (Prof. M. A. Pirirs) Centro Nacional de Investigaciones Oncologicas (CNIO), Madrid, Spain.

Ottobre 2010 Training in “Laser capture microdissection with PALM MicroBeamsystem (Zeiss), Molecular Diagnostics Unit (Prof. Luis Lombardia), Centro Nacional de Investigaciones Oncologicas (CNIO), Madrid, Spain.

Partecipazione a progetti Nazionali ed Internazionali

2008-2010 Research group member, Italy-Spain Partnership (MIUR grant, IT1816). *Role of aktkinase in growth control of hematological and solid neoplasms*. In collaboration with Dr. Miguel Angel Piris del Programa de Patologia Molecular Centro Nacional de Investigaciones Oncologicas Madrid, Spain.

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Dicembre 2012: Premio Iacobelli 2012 Best Original Poster, Azienda Ospedaliera dei Colli – Monaldi Cotugno CTO, Napoli

Settembre 2014: European Congress of Cytology, Geneva, Switzerland. Oral Paper, second prize: *A comparative study of 3715 thyroid FNAs with ultrasound guidance performed by a cytopathologist versus a non-cytopathologist: Evidence for the improved diagnostic value of the Interventional Pathology.*

Lingue

English: intermediate

Memberships

SIAPEC-AIT Italian Society of Anatomic Pathology and Cytopathology.

European Thyroid Association.

ENET Napoli (2013-2017)

Attività cliniche e diagnostiche.

-Citopatologo interventista, pratica sia agoaspirati ecoguidati (tiroide, mammella, linfonodi, ghiandole salivari) che valutazione estemporanea dell' adeguatezza del prelievo in corso di agoaspirati TAC-guidati e ecoendoscopici, con particolare riferimento agli aspirati gastrointestinali e pancreatici.

-Integrazione degli aspetti morfologici, immunoistochimici e molecolari per la diagnosi, prognosi e terapia in patologia oncologica. In particolare, valutazione di markers immunoistochimici (es. cromogranina e sinaptofisina) e dell' indice di proliferazione (Ki-67) nei citoinclusi ottenuti mediante agoaspirazione eco-endoguidata delle neoplasie neuroendocrine pancreatiche e gastrointestinali.

-Partecipazione agli incontri multidisciplinare del Centro Net di Napoli.

-Implementazione dei test molecolari su citologici tiroidei per la stratificazione del rischio pre-operatorio nei pazienti con noduli tiroidei "indeterminati".

Pubblicazioni.

Bellevicine C, Vigliar E, Malapelle U, Pisapia P, Conzo G, Biondi B, Vetrani A, Troncone G. Cytopathologists can reliably perform ultrasound-guided thyroid fine needle aspiration: a 1-year audit on 3715 consecutive cases. *Cytopathology*. 2016 Apr;27(2):115-21. doi: 10.1111/cyt.12243. Epub 2015 Mar 21. PubMed PMID: 25810099.

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Malapelle U, Vatrano S, Russo S, **Bellevicine C**, de Luca C, Sgariglia R, Rocco D, de Pietro L, Riccardi F, Gobbi E, Righi L, Troncone G. EGFR mutant allelic-specific imbalance assessment in routine samples of non-small cell lung cancer. *J Clin Pathol*. 2015 Sep;68(9):739-41. doi: 10.1136/jclinpath-2015-203101. Epub 2015 Jun 5. PubMed PMID: 26047622.

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