

PERSONAL INFORMATION

ISABELLA CASTELLANO

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Sex F | Date of birth 20/01/1975 | Nationality Italian

WORK EXPERIENCE

- October 2010-present Medical Researcher at Univesity of Turin, Department of Medical Sciences (sector MED/08)
- October 2010-present Staff physician at the Department of Pathology, Città della Salute e della Scienza Hospital, Molinette, Turin

EDUCATION AND TRAINING

- 2011 PhD program in Biomedical Sciences and Human Oncology – Human Oncology University of Turin and “Città della Salute e della Scienza” University Hospital
- 2006 Anatomic Pathology residency – University of Turin
- 2001 Medicine and Surgery degree – University of Turin

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient	Proficient	Proficient	Proficient	Proficient

Organisational / managerial skills

Responsible for pre-and post-operative and screening diagnostics of mammary tumors. Regular participation in group discussions and interdisciplinary meetings regarding treatment for breast cancer.

Job-related skills

- Professor of Surgical Pathologist at Degree Course in Medical Biotechnology -Diagnostic Biotechnology-Pathology
- Professor of Surgical Pathologist at Degree Course of Medical Radiology Imaging Techniques and Radiotherapy
- Tutor of students for the graduation thesis in Medicine and other courses (Biomedical Laboratory technicians).

Digital skills ▪ Microsoft OS and Office

Driving licence B

## SCIENTIFIC ACTIVITY

The research focuses on experimental and clinical-pathological studies on breast cancer, with the key mission to translate the achievements of basic science to the patient's bedside.

For these studies, also during her PhD in Biomedical Sciences and Human Oncology, she developed technical competence related to immunocytochemistry, in situ hybridization (CISH/FISH) and cell lines.

From a clinical point of view, she actively participate to the discussions in the interdisciplinary teams of care for breast cancer, in her Breast Unit.

These meetings offer the opportunity to evaluate critical aspect on breast pathology from different clinical point of view, giving suggestions for multidisciplinary research projects. Five years ago, she was responsible of a trial in her hospital, regarding the use of a molecular tool in the diagnosis of sentinel lymph node in patients with breast cancer. In this project she coordinated surgeons, pathologists and oncologists to select patients, to perform test and to interpret the diagnosis obtained with this method. The results of this study have been published in 2011.

In the last years, she focused her research on prognostic and predictive factors in breast cancer and in particular on hormonal receptors.

Supported by a group of pathologists, oncologists and molecular biologists with different cultural backgrounds and of different national and international hospitals, she created a collection of well-annotated breast tumor specimens, with long follow up, useful to study breast cancer from both a clinical and molecular approaches.

Total Papers and Reviews: 90

Contemporary H index 21: Scopus

## Articles (indexed in PubMed)

- Eccrine spiradenoma of the nipple: Case report, differential diagnosis and literature review. Metovic J, Gallino C, Zanon E, Bussone R, Russo R, Vissio E, Annaratone L, Conti L, Papotti M, Cassoni P, Castellano I. *Histol Histopathol.* 2019 Feb 26;18094. doi: 10.14670/HH-18-094
- Prognostic Characterization of Higher-Grade Meningiomas: A Histopathological Score to Predict Progression and Outcome. Bertero L, Dalla Dea G, Osella-Abate S, Botta C, Castellano I, Morra I, Pollo B, Calatozzolo C, Patriarca S, Mantovani C, Rudà R, Tardivo V, Zenga F, Garbossa D, Papotti M, Soffietti R, Ricardi U, Cassoni P. *J Neuropathol Exp Neurol.* 2019 Jan 25. doi: 10.1093/jnen/nly127
- FOXA1 and AR in invasive breast cancer: new findings on their co-expression and impact on prognosis in ER-positive patients. Rangel N, Fortunati N, Osella-Abate S, Annaratone L, Isella C, Catalano MG, Rinella L, Metovic J, Boldorini R, Balmativola D, Ferrando P, Marano F, Cassoni P, Sapino A, Castellano I. *BMC Cancer.* 2018 Jul 3;18(1):703
- Fibulin-1 interacts with Sex Hormone Binding Globulin and is linked to less aggressive estrogen-dependent breast cancers. Marano F, Zunino V, Frairia R, Arvat E, Castellano I, Bosco O, Catalano MG, Fortunati N. *Life Sci.* 2018 Aug 15;207:372-380. doi: 10.1016/j.lfs.2018.06.024
- Role of Cryptochrome-1 and Cryptochrome-2 in Aldosterone-Producing Adenomas and Adrenocortical Cells. Tetti M, Castellano I, Venziano F, Magnino C, Veglio F, Mulatero P, Monticone S. *Int J Mol Sci.* 2018 Jun 5;19(6)
- The post-surgical era of GBM: How molecular biology has impacted on our clinical management. A review. Monticelli M, Zeppa P, Zenga F, Altieri R, Mammi M, Bertero L, Castellano I, Cassoni P, Melcarne A, La Rocca G, Sabatino G, Ducati A, Garbossa D. *Clin Neurol Neurosurg.* 2018 Jul;170:120-126.
- Preoperative MRI evaluation of lesion-nipple distance in breast cancer patients: thresholds for predicting occult nipple-areola complex involvement. Mariscotti G, Durando M, Houssami N, Berzovini CM, Esposito F, Fasciano M, Campanino PP, Bosco D, Bussone R, Ala A, Castellano I, Sapino A, Bergamasco L, Fonio P, Gandini G. *Clin Radiol.* 2018 Aug;73(8):735-743
- Comparative Genomics and Transcriptome Profiling in Primary Aldosteronism. Aristizabal Prada ET, Castellano I, Sušnik E, Yang Y, Meyer LS, Tetti M, Beuschlein F, Reincke M, Williams TA. *Int J Mol Sci.* 2018 Apr 9;19(4).

- De-escalation of breast radiotherapy after conserving surgery in low-risk early breast cancer patients. Franco P, Iorio GC, Bartoncini S, Airoidi M, De Sanctis C, Castellano I, Ricardi U. *Med Oncol*. 2018 Apr 3;35(5):62.
- Luminal breast cancer-specific circular RNAs uncovered by a novel tool for data analysis. Coscujuela Tarrero L, Ferrero G, Miano V, De Intinis C, Ricci L, Arigoni M, Riccardo F, Annaratone L, Castellano I, Calogero RA, Beccuti M, Cordero F, De Bortoli M. *Oncotarget*. 2018 Feb 19;9(18):14580-14596
- The role of the AR/ER ratio in ER-positive breast cancer patients. Rangel N, Rondon-Lagos M, Annaratone L, Osella-Abate S, Metovic J, Mano MP, Bertero L, Cassoni P, Sapino A, Castellano I. *Endocr Relat Cancer*. 2018 Mar;25(3):163-172
- Extracorporeal shock waves trigger tenogenic differentiation of human adipose-derived stem cells. Rinella L, Marano F, Paletto L, Fracalvieri M, Annaratone L, Castellano I, Fortunati N, Bargoni A, Berta L, Frairia R, Catalano MG. *Connect Tissue Res*. 2018 Nov;59(6):561-573
- A Case of Adrenal Vein Sampling in Primary Aldosteronism With Homolateral Suppression. Viola A, Monticone S, Rossato D, Versace K, Castellano I, Burrello J, Buffolo F, Veglio F, Mulatero P. *J Endocr Soc*. 2017 Mar 17;1(5):401-406.
- Volumetric modulated arc therapy (VMAT) to deliver nodal irradiation in breast cancer patients. Iorio GC, Franco P, Gallio E, Martini S, Arcadipane F, Bartoncini S, Rondi N, Giglioli FR, Ala A, Airoidi M, Donadio M, De Sanctis C, Castellano I, Ricardi U. *Med Oncol*. 2017 Nov 24;35(1):1. doi: 10.1007/s12032-017-1061-8.
- Eighth Edition of the UICC Classification of Malignant Tumours: an overview of the changes in the pathological TNM classification criteria-What has changed and why? Bertero L, Massa F, Metovic J, Zanetti R, Castellano I, Ricardi U, Papotti M, Cassoni P. *Virchows Arch*. 2018 Apr;472(4):519-531. doi: 10.1007/s00428-017-2276-y. Epub 2017 Dec 5. Review.
- The IKK/NF- $\kappa$ B signaling pathway requires Morgana to drive breast cancer metastasis. Fusella F, Secli L, Busso E, Krepelova A, Moiso E, Rocca S, Conti L, Annaratone L, Rubinetto C, Mello-Grand M, Singh V, Chiorino G, Silengo L, Altruda F, Turco E, Morotti A, Oliviero S, Castellano I, Cavallo F, Provero P, Tarone G, Brancaccio M. *Nat Commun*. 2017 Nov 21;8(1):1636
- The impact of malignant nipple discharge cytology (NDc) in surgical management of breast cancer patients. Castellano I, Metovic J, Balmativila D, Annaratone L, Rangel N, Vissio E, Arisio R, Macri L, Pecchioni C, Sarotto I, Montarolo F, Muscarà F, Marchiò C, Cassoni P, Kulka J, Sapino A. *PLoS One*. 2017 Aug 14;12(8):e0182073.
- Combining doxorubicin-nanobubbles and shockwaves for anaplastic thyroid cancer treatment: preclinical study in a xenograft mouse model. Marano F, Frairia R, Rinella L, Argenziano M, Bussolati B, Grange C, Mastrocola R, Castellano I, Berta L, Cavalli R, Catalano MG. *Endocr Relat Cancer*. 2017 Jun;24(6):275-28
- The scaffold protein p140Cap limits ERBB2-mediated breast cancer progression interfering with Rac GTPase-controlled circuitries. Grasso S, Chapelle J, Salemme V, Aramu S, Russo I, Vitale N, Verdun di Cantogno L, Dallaglio K, Castellano I, Amici A, Centonze G, Sharma N, Lunardi S, Cabodi S, Cavallo F, Lamolinara A, Stramucci L, Moiso E, Provero P, Albini A, Sapino A, Staaf J, Di Fiore PP, Bertalot G, Pece S, Tosoni D, Confalonieri S, Iezzi M, Di Stefano P, Turco E, Defilippi P. *Nat Commun*. 2017 Mar 16;8:14797.
- Prognostic role of maspin expression in melanoma: probably far from clinical use. Ribero S, Senetta R, Osella-Abate S, Scalzo MS, Castellano I, Lentini F, Baboi AP, Fierro MT, Sapino A, Cassoni P. *Histopathology*. 2017 Jul;71(1):158-162.
- Activation of P2X7 and P2Y11 purinergic receptors inhibits migration and normalizes tumor-derived endothelial cells via cAMP signaling. Avanzato D, Genova T, Fiorio Pla A, Bernardini M, Bianco S, Bussolati B, Mancardi D, Giraudo E, Maione F, Cassoni P, Castellano I, Munaron L. *Sci Rep*. 2016 Sep 2;6:32602
- Hypofractionation with no boost after breast conservation in early-stage breast cancer

- patients. Arcadipane F, Franco P, De Colle C, Rondi N, Di Muzio J, Pelle E, Martini S, Ala A, Airoidi M, Donadio M, De Sanctis C, Castellano I, Ragona R, Ricardi U. *Med Oncol*. 2016 Oct;33(10):108.
- Effect of low doses of estradiol and tamoxifen on breast cancer cell karyotypes. Rondón-Lagos M, Rangel N, Di Cantogno LV, Annaratone L, Castellano I, Russo R, Manetta T, Marchiò C, Sapino A. *Endocr Relat Cancer*. 2016 Aug;23(8):635-50.
  - Omission of axillary dissection after a positive sentinel lymph-node: Implications in the multidisciplinary treatment of operable breast cancer. Ponzzone R, Ruatta F, Gatti M, Castellano I, Geuna E, Amato G, Kubatzki F, Sgandurra P, Sapino A, Montemurro F. *Cancer Treat Rev*. 2016 Jul;48:1-7.
  - Digital breast tomosynthesis as an adjunct to digital mammography for detecting and characterising invasive lobular cancers: a multi-reader study. Mariscotti G, Durando M, Houssami N, Zuiani C, Martincich L, Londero V, Caramia E, Clauser P, Campanino PP, Regini E, Luparia A, Castellano I, Bergamasco L, Sapino A, Fonio P, Bazzocchi M, Gandini G. *Clin Radiol*. 2016 Sep;71(9):889-95.
  - Subtle reproductive impairment through nitric oxide-mediated mechanisms in sea urchins from an area affected by harmful algal blooms. Migliaccio O, Castellano I, Di Cioccio D, Tedeschi G, Negri A, Cirino P, Romano G, Zingone A, Palumbo A. *Sci Rep*. 2016 May 19;6:26086
  - Optimal Ki67 cut-off for luminal breast cancer prognostic evaluation: a large case series study with a long-term follow-up. Bustreo S, Osella-Abate S, Cassoni P, Donadio M, Airoidi M, Pedani F, Papotti M, Sapino A, Castellano I. *Breast Cancer Res Treat*. 2016 Jun;157(2):363-37
  - Tamoxifen Treatment of Breast Cancer Cells: Impact on Hedgehog/GLI1 Signaling. Villegas VE, Rondón-Lagos M, Annaratone L, Castellano I, Grismaldo A, Sapino A, Zaphiropoulos PG. *Int J Mol Sci*. 2016 Feb 27;17(3):308
  - Mesenchymal/radioresistant traits in granular astrocytomas: evidence from a combined clinical and molecular approach. Senetta R, Mellai M, Manini C, Castellano I, Bertero L, Pittaro A, Schiffer D, Boldorini R, Cassoni P. *Histopathology*. 2016 Aug;69(2):329-37.
  - p130Cas scaffold protein regulates ErbB2 stability by altering breast cancer cell sensitivity to autophagy. Bisaro B, Sciortino M, Colombo S, Camacho Leal MP, Costamagna A, Castellano I, Montemurro F, Rossi V, Valabrega G, Turco E, Defilippi P, Cabodi S. *Oncotarget*. 2016 Jan 26;7(4):4442-53. doi: 10.18632/oncotarget.6710.
  - Meningeal carcinomatosis underdiagnosis and overestimation: incidence in a large consecutive and unselected population of breast cancer patients. Mittica G, Senetta R, Richiardi L, Rudà R, Coda R, Castellano I, Sapino A, Cassoni P. *BMC Cancer*. 2015 Dec 29;15:1021.
  - Luminal long non-coding RNAs regulated by estrogen receptor alpha in a ligand-independent manner show functional roles in breast cancer. Miano V, Ferrero G, Reineri S, Caizzi L, Annaratone L, Ricci L, Cutrupi S, Castellano I, Cordero F, De Bortoli M. *Oncotarget*. 2016 Jan 19;7(3):3201-16.
  - Subtype Diagnosis of Primary Aldosteronism: Approach to Different Clinical Scenarios. Burrello J, Monticone S, Tetti M, Rossato D, Versace K, Castellano I, Williams TA, Veglio F, Mulatero P. *Horm Metab Res*. 2015 Dec;47(13):959-66.
  - Immunohistochemical and molecular profiling of histologically defined apocrine carcinomas of the breast. Vranic S, Marchiò C, Castellano I, Botta C, Scalzo MS, Bender RP, Payan-Gomez C, di Cantogno LV, Gugliotta P, Tondat F, di Celle PF, Mariani S, Gatalica Z, Sapino A. *Hum Pathol*. 2015 Sep;46(9):1350-9.
  - Immunohistochemical, genetic and clinical characterization of sporadic aldosterone-producing adenomas. Monticone S, Castellano I, Versace K, Lucatello B, Veglio F, Gomez-Sanchez CE,

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- Digital Breast Tomosynthesis (DBT) to Characterize MRI-Detected Additional Lesions Unidentified at Targeted Ultrasound in Newly Diagnosed Breast Cancer Patients. Mariscotti G, Houssami N, Durando M, Campanino PP, Regini E, Fornari A, Bussone R, Castellano I, Sapino A, Fonio P, Gandini G. *Eur Radiol.* 2015 Sep;25(9):2673-81.
- Efficiency of a preoperative axillary ultrasound and fine-needle aspiration cytology to detect patients with extensive axillary lymph node involvement. Castellano I, Deambrogio C, Muscarà F, Chiusa L, Mariscotti G, Bussone R, Gazzetta G, Macri L, Cassoni P, Sapino A. *PLoS One.* 2014 Sep 10;9(9):e106640
- Breast cancer risk associated with the diagnosis of a microhistological radial scar (RS): retrospective analysis in 10 years of experience. Dominguez A, Durando M, Mariscotti G, Angelino F, Castellano I, Bergamasco L, Bianchi CC, Fonio P, Gandini G. *Radiol Med.* 2015 Apr;120(4):377-85.
- A new clinical cut-off of cytokeratin 19 mRNA copy number in sentinel lymph node better identifies patients eligible for axillary lymph node dissection in breast cancer. Deambrogio C, Castellano I, Paganotti A, Zorini EO, Corsi F, Bussone R, Franchini R, Antona J, Miglio U, Sapino A, Antonacci C, Boldorini R. *J Clin Pathol.* 2014 Aug;67(8):702-6.
- Are breast cancer molecular classes predictive of survival in patients with long follow-up? Pracella D, Bonin S, Barbazza R, Sapino A, Castellano I, Sulfaro S, Stanta G. *Dis Markers.* 2013;35(6):595-605
- Search for neuro-endocrine markers (chromogranin A, synaptophysin and VGF) in breast cancers. An integrated approach using immunohistochemistry and gene expression profiling. Annaratone L, Medico E, Rangel N, Castellano I, Marchiò C, Sapino A, Bussolati G. *Endocr Pathol.* 2014 Sep;25(3):219-28. doi: 10.1007/s12022-013-9277-4.
- Well-differentiated neuroendocrine tumour of the breast showing peculiar endovascular spread. Kawasaki T, Bussolati G, Marchiò C, Castellano I, Daniele L, Molinaro L, Hinata M, Furuya K, Nakagomi H, Oyama T, Tsunoda H, Sugai T, Katoh R, Sapino A. *Histopathology.* 2014 Mar;64(4):597-600. doi: 10.1111/his.12276. Epub 2013 Nov 12. No abstract available.
- A collection of primary tissue cultures of tumors from vacuum packed and cooled surgical specimens: a feasibility study. Annaratone L, Marchiò C, Russo R, Ciardo L, Rondon-Lagos SM, Goia M, Scalzo MS, Bolla S, Castellano I, Verdun di Cantogno L, Bussolati G, Sapino A. *PLoS One.* 2013 Sep 30;8(9):e75193. doi: 10.1371/journal.pone.0075193. eCollection 2013.
- Somatic ATP1A1, ATP2B3, and KCNJ5 mutations in aldosterone-producing adenomas. Williams TA, Monticone S, Schack VR, Stindl J, Burrello J, Buffolo F, Annaratone L, Castellano I, Beuschlein F, Reincke M, Lucatello B, Ronconi V, Fallo F, Bernini G, Maccario M, Giacchetti G, Veglio F, Warth R, Vilsen B, Mulatero P. *Hypertension.* 2014 Jan;63(1):188-95.
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- A novel biomarker-based analysis reliably predicts nodal metastases in anal carcinoma: preliminary evidence of therapeutic impact. Mistrangelo M, Senetta R, Racca P, Castellano I, Chiusa L, Bellò M, Ricardi U, Morino M, Cassoni P. *Colorectal Dis.* 2013 Nov;15(11):1382-91.
- Morphological parameters of lobular in situ neoplasia in stereotactic 11-gauge vacuum-assisted needle core biopsy do not predict the presence of malignancy on subsequent surgical excision. Bianchi S, Bendinelli B, Castellano I, Piubello Q, Renne G, Cattani MG, Stefano DD, Carrillo G, Laurino L, Bersiga A, Giardina C, Dante S, Loreto CD, Quero C, Antonacci CM, Palli D; VANCB Study Group. *Histopathology.* 2013 Jul;63(1):83-95.
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