

Curriculum Vitae

Personal information

First name (s)/ Surname (s)
Permanent address
Telephone
E-mail
Nationality
Date of birth
Place of birth

Anello Marcello Poma



Education

Dates	25/01/2021
Title of qualification awarded	PhD in Clinical Physiopathology
Name and type of organisation providing education and training	Laboratory of Molecular Pathology, Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine, University of Pisa
Level in national or international classification	
Title of thesis	The transcriptional coactivator TAZ has an opposite impact on progression-free survival of metastatic colorectal cancer patients depending on Colorectal Cancer Assigner subtypes
Dates	25/05/2016
Title of qualification awarded	Master's degree in Biology Applied to Biomedical Sciences – physiopathological curriculum
Name and type of organisation providing education and training	University of Pisa
Level in national or international classification	110/110 (magna cum laude)
Title of thesis	Digital mRNA signature of thyroid nodules with follicular architecture
Dates	03/03/2014
Title of qualification awarded	Bachelor's degree in Biology
Name and type of organisation providing education and training	University of Pisa
Level in national or international classification	101/110
Title of thesis	The role of h-TERT in molecular pathology

Research experience

Dates	From November 2020 up to now
Occupation or position held	Postdoctoral Researcher
Name of employer	Laboratory of Molecular Pathology, Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine, University of Pisa
Principal investigator	Prof. Fulvio Basolo
Description of the research	Discovery of diagnostic, prognostic and predictive biomarkers in solid tumors. Data analysis.
Dates	From November 2017 to October 2020
Occupation or position held	PhD student in Clinical Physiopathology
Name of employer	Laboratory of Molecular Pathology, Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine, University of Pisa
Principal investigator	Prof. Fulvio Basolo
Description of the research	Discovery of diagnostic, prognostic and predictive biomarkers in solid tumors. Data analysis.
Dates	From January 2016 to October 2017
Occupation or position held	Scholarship holder
Name of employer	Laboratory of Molecular Pathology, Department of Surgical, Medical and Molecular Pathology and

Principal investigator	Critical Care Medicine, University of Pisa
Description of the research	Prof. Fulvio Basolo Identification of gene expression signatures to distinguish benign and malignant thyroid lesions
Dates	From October 2015 to April 2016
Occupation or position held	Trainee (Master's Thesis)
Name of employer	Laboratory of Molecular Pathology, Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine, University of Pisa
Principal investigator	Prof. Fulvio Basolo
Description of the research	Gene expression profiling of Non-Invasive Follicular Thyroid neoplasm with Papillary-like nuclear features (NIFTP)
Dates	From October 2013 to February 2014
Occupation or position held	Trainee (Bachelor's Thesis)
Name of employer	Laboratory of Molecular Pathology, Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine, University of Pisa
Principal investigator	Prof. Fulvio Basolo
Description of the research	Development and tuning of analysis methods for the detection of <i>TERT</i> promoter alterations

Publications

1. **Poma AM**, Bonuccelli D, Giannini R, Macerola E, Vignali P, Ugolini C, Torregrossa L, Proietti A, Pistello M, Basolo A, Santini F, Toniolo A, Basolo F. COVID-19 autopsy cases: detection of virus in endocrine tissues. *J Endocrinol Invest*. 2021 Jun 30:1–6. doi: 10.1007/s40618-021-01628-y. Epub ahead of print.
2. Macerola E, Proietti A, **Poma AM**, Ugolini C, Torregrossa L, Vignali P, Basolo A, Materazzi G, Elisei R, Santini F, Basolo F. Molecular Alterations in Relation to Histopathological Characteristics in a Large Series of Pediatric Papillary Thyroid Carcinoma from a Single Institution. *Cancers (Basel)*. 2021 Jun 22;13(13):3123.
3. Moretto R, Giordano M, **Poma AM**, Passardi A, Boccaccino A, Tomasello G, Aprile G, Conca V, Granetto C, Frassoldati A, Clavarezza M, Bertolini AS, Germani MM, Ugolini C, Fontanini G, Masi G, Falcone A, Cremolini C. Exploring clinical and gene expression markers of benefit from FOLFOXIRI/bevacizumab in patients with BRAF-mutated metastatic colorectal cancer: Subgroup analyses of the TRIBE2 study. *Eur J Cancer*. 2021 Jun 11;153:16-26. doi: 10.1016/j.ejca.2021.04.039. Epub ahead of print
4. **Poma AM**, Viola D, Macerola E, Proietti A, Molinaro E, De Vietro D, Elisei R, Materazzi G, Miccoli P, Basolo F, Ugolini C. Tall cell percentage alone in PTC without aggressive features should not guide patients' clinical management. *J Clin Endocrinol Metab*. 2021 Jun 1:dgab388. doi: 10.1210/clinem/dgab388. Epub ahead of print.
5. **Poma AM**, Hammerstad SS, Genoni A, Basolo A, Dahl-Jorgensen K, Toniolo A. Immune Transcriptome of Cells Infected with Enterovirus Strains Obtained from Cases of Autoimmune Thyroid Disease. *Microorganisms*. 2021 Apr 19;9(4):876.
6. Macerola E, **Poma AM**, Vignali P, Basolo A, Ugolini C, Torregrossa L, Santini F, Basolo F. Molecular Genetics of Follicular-Derived Thyroid Cancer. *Cancers (Basel)*. 2021 Mar 7;13(5):1139.
7. **Poma AM**, Macerola E, Basolo A, Batini V, Rago T, Santini F, Torregrossa L. Fine-Needle Aspiration Cytology and Histological Types of Thyroid Cancer in the Elderly: Evaluation of 9070 Patients from a Single Referral Centre. *Cancers (Basel)*. 2021 Feb 22;13(4):907.
8. Condello V, Cetani F, Denaro M, Torregrossa L, Pardi E, Piaggi P, Borsari S, **Poma AM**, Muscarella LA, Graziano P, Grazia Chiofalo M, Repaci A, Tallini G, Boi F, Materazzi G, Basolo F, Marcocci C. Gene expression profile in metastatic and non-metastatic parathyroid carcinoma. *Endocr Relat Cancer*. 2020 Dec 1:ERC-20-0450.
9. Macerola E, **Poma AM**, Basolo F. NanoString in the screening of genetic abnormalities associated with thyroid cancer. *Semin Cancer Biol*. 2020 Oct 19:S1044-579X(20)30209-1.
10. **Poma AM**, Macerola E, Torregrossa L, Elisei R, Santini F, Basolo F. Using The Cancer Genome Atlas data to refine the 8th edition of the American Joint Committee on Cancer staging for papillary thyroid carcinoma. *Endocrine*. 2020 Sep 11.
11. **Poma AM**, Genoni A, Broccoli F, Denaro M, Pugliese A, Basolo F, Toniolo A. Immune Transcriptome of Cells Infected with Enterovirus Strains Obtained from Cases of Type 1 Diabetes. *Microorganisms*. 2020 Jul 12;8(7):1031.
12. Bruno R, Ali G, **Poma AM**, Proietti A, Libener R, Mariani N, Niccoli C, Chella A, Ribechini A, Grosso F, Fontanini G. Differential diagnosis of malignant pleural mesothelioma on cytology: a gene expression panel versus BAP1 and p16 tests. *J Mol Diagn* 2020 Apr; 22(4):457-466.
13. Ali G, Bruno R, **Poma AM**, Proietti A, Ricci S, Chella A, Melfi F, Ambrogi MC, Lucchi M, Fontanini G. A gene-expression-based test can outperform bap1 and p16 analyses in the differential diagnosis of pleural mesothelial proliferations. *Oncol Lett* 2020 Jan; 19(1):1060-1065.
14. Macerola E, **Poma AM**, Proietti A, Romani R, Torregrossa L, Ugolini C, Rago T, Vitti P, Basolo F. Digital gene expression analysis on cytology smears can rule out malignancy in follicular-patterned thyroid tumors. *J Mol Diagn* 2020 Feb; 22 (2):179-187.
15. **Poma AM**, Condello V, Denaro M, Torregrossa L, Elisei R, Vitti P, Basolo F. *DICER1* somatic mutations strongly impair miRNA processing even in benign thyroid lesions. *Oncotarget*. 2019 Mar; 10(19):1785-1797.
16. Ali G, Bruno R, **Poma AM**, Affinito O, Monticelli A, Piaggi P, Ricciardi S, Lucchi M, Melfi F, Chella A, Cocozza S, Fontanini G. Whole

- transcriptome targeted gene quantification provides new insights on pulmonary sarcomatoid carcinomas. *Sci Rep.* 2019 Mar; 9(1):3536.
17. Condello V, Torregrossa L, Sartori C, Denaro M, **Poma AM**, Piaggi P, Valerio L, Materazzi G, Elisei R, Vitti P, Basolo F. mRNA and miRNA expression profiling of follicular variant of papillary thyroid carcinoma with and without distant metastases. *Mol Cell Endocrinol.* 2019 Jan; 479:93-102.
 18. **Poma AM**, Torregrossa L, Bruno R, Basolo F and Gabriella F. Hippo pathway affects survival of cancer patients: extensive analysis of TCGA data and review of literature. *Sci Rep.* 2018 Jul; 8(1):10623.
 19. **Poma AM**, Giannini R, Piaggi P, Ugolini C, Materazzi G, Miccoli P, Vitti P and Basolo F. A six-gene panel to label follicular adenoma, low- and high-risk follicular thyroid carcinoma. *Endocr Connect.* 2018 Jan; 7(1):124-132.
 20. Bakkar S, **Poma AM**, Corsini C, Miccoli M, Ambrosini CE and Miccoli P. Underestimated risk of cancer in solitary thyroid nodules ≥ 3 cm reported as benign. *Langenbecks Arch Surg.* 2017 Nov; 402(7):1089-1094
 21. Denaro M, Ugolini C, **Poma AM**, Borrelli N, Materazzi G, Piaggi P, Chiarugi M, Miccoli P, Vitti P and Basolo F. Differences in miRNA expression profiles between wild-type and mutated NIFTPs. *Endocr Relat Cancer.* 2017 Oct; 24(10):543-553.
 22. Giannini R, Ugolini C, **Poma AM**, Urpi M, Niccoli C, Elisei R, Chiarugi M, Vitti P, Miccoli P, Basolo F. Identification of Two Distinct Molecular Subtypes of Non-Invasive Follicular Neoplasm with Papillary-Like Nuclear Features by Digital RNA Counting. *Thyroid.* 2017 Oct; 27(10):1267-1276.
 23. Borrelli N, Denaro M, Ugolini C, **Poma AM**, Miccoli M, Vitti P, Miccoli P and Basolo F. miRNA expression profiling of 'noninvasive follicular thyroid neoplasms with papillary-like nuclear features' compared with adenomas and infiltrative follicular variants of papillary thyroid carcinomas. *Modern Pathology* 2017 Jan; 30 (1):39-51.

Conference Proceedings

Oral Presentations

1. Proietti A, **Poma AM**, Russomanno G, Macerola E, Bianchini V, Basolo F. Tall cell component in papillary thyroid carcinoma and its relation with tumor aggressiveness: analysis of 3133 consecutive cases. Short Call Abstracts, 89th Annual Meeting of the American Thyroid Association. *Thyroid* 2019 Oct; 29, s1:A-206-A-208 [89th Annual Meeting of the American Thyroid Association. Thyroid (IL, USA) 30 Oct-3 Nov 2019].
2. Bruno R, Ali G, **Poma AM**, Libener R, Chella A, Lucchi M, Melfi F, Grosso F, Fontanini G. Differential diagnosis of malignant pleural mesothelioma: effectiveness of a gene expression panel on pleural effusions. Abstract nr MS17.03 Oral communication. [14th International Conference of the International Mesothelioma Interest Group; Ottawa (CANADA) -2-5 May 2018].
3. "Thyroid nodules and cytology: diagnostics, clinics e fine-needle cytology", Roccalumera and S. Teresa di Riva, Italy, Apr 27-28, 2018. Invitation as speaker, title of presentation: "The role of molecular biology in indeterminate thyroid nodules."

Poster Presentations

1. **Poma AM**, Pasquini G, Bruno R, Ali G, Proietti A, Pecora I, Petrini I, Vasile E, Chella A, Fontanini G. The Percentage of PD-L1 Besides 50% Positivity Predicts Objective Response to Pembrolizumab in Non-Small Cell Lung Cancer. Abstracts, 2019 World Conference on Lung Cancer. *Journal of Thoracic Oncology*, Volume 14, Issue 10, S466 - S467.
2. Macerola E, **Poma AM**, Proietti A, Romani R, Vitti P and Basolo F. A New Molecular Tool for Indeterminate Thyroid Cytology. Abstracts, 88th Annual Meeting of the American Thyroid Association, *Thyroid* 2018 Oct; 28, Supplement 1: Abstract nr 362. [88th Annual Meeting of the American Thyroid Association, Washington (DC, USA) 3-7 Oct 2018].
3. **Poma AM**, Condello V, Denaro M, Torregrossa L, Elisei R, Vitti P and Basolo F. DICER1 Mutations Cause 5p/3p miRNA Imbalance in Follicular Thyroid Adenoma. Short Call Abstracts, 88th Annual Meeting of the American Thyroid Association, *Thyroid* 2018 Oct; 28, Supplement 1: Abstract nr Short Call Poster 26. [88th Annual Meeting of the American Thyroid Association, Washington (DC, USA) 3-7 Oct 2018]
4. Denaro M, Condello V, Ugolini C, Macerola E, **Poma AM**, Materazzi G, Vitti P and Basolo F. A panel of miRNAs for diagnosis of wild-type thyroid nodules with pre-surgical indeterminate cytology. Proceedings of the American Association for Cancer Research Annual Meeting 2018, *Cancer Research* 2018 Jul;78(13 Suppl):Abstract nr 5402. [2018 AACR Annual Meeting, Chicago (IL, USA) 14-18 Apr].
5. **Poma AM**, Giannini R, Ugolini C, Basolo F. Gene expression profiling of follicular thyroid adenoma, minimally invasive and widely invasive follicular thyroid carcinoma. *Pathologica JotISoAPaDC Italian Division of the International Academy of Pathology* (2016) Pacini, pp.179-404. [7° Congresso triennale di Anatomia Patologica SIAPEC-IAP, Genova (Italy) 23-26 Nov 2016].
6. Basolo F, Giannini R, Ugolini C, **Poma AM**, Vitti P, Miccoli P. Digital mRNA counting in "non-invasive follicular thyroid neoplasms with papillary-like nuclear features" (NIFT-P) identifies two different expression profiles. *Thyroid: official journal of the American Thyroid Association* (2016) 26 Suppl 1:P1-A129. [86th Annual Meeting of the American Thyroid Association, Denver (CO, USA) 21-25 Sep 2016].

Abstracts

1. Bruno R, Lupi C, Landi L, Ali G, Sensi E, Proietti A, Giannini R, Condello V, Denaro M, Giordano M, Macerola E, **Poma AM**, Nuti S, Niccoli C, Pelliccioni S, Tiseo M, Cappuzzo F, Fontanini G. MET exon 14 mutations in advanced lung adenocarcinoma: frequency and coexisting alterations. *J Clin Oncol* (2017) 35: suppl;abstr e20656. [2017 ASCO Annual Meeting, Chicago (IL, USA) 2-6 Jun].
2. Bruno R, **Poma AM**, Ali G, Giannini R, Puppo G, Melfi F, Lucchi M, Mussi A, Falcone A, Chella A, Fontanini G. Novel prognostic markers for epitheliod malignant pleural mesothelioma. *J Clin Oncol* (2017) 35: suppl;abstr e20028. [2017 ASCO Annual Meeting, Chicago (IL, USA) 2-6 Jun].

Number of citations 137 (by Scopus, last accessed July 22, 2021)
H-index 6 (by Scopus, last accessed July 22, 2021)
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Conferences attended

1. "Lung cancer today", Pisa, Italy, Nov 29, 2019.
2. "Consensus, patients with NSCLC: new diagnostic approaches for new therapeutic strategies", Pisa, Italy, Jun 7, 2019.
3. "AACR Annual Meeting 2019", Atlanta, GA, USA, Mar 29, 2019 to Apr 3, 2019.
4. "Focus on: metastatic colorectal carcinoma", Forte dei Marmi, Italy, Mar 14, 2019.
5. "Personalized medicine in colorectal carcinoma: present and future directions", Pisa, Italy, Dec 11, 2018.
6. "Lung cancer: from theory to patient-focused-targeted practice", Pisa, Italy, Nov 30, 2018.
7. "VII Molecular Cytopathology", Naples, Italy, Nov 26-27, 2018.
8. "Consensus: ensuring quality cancer care", Pisa, Italy, Jun 22, 2018.
9. "IV meeting of the Italian group for molecular pathology and predictive medicine", Florence, Italy, May 14-15, 2018.
10. "Molecular pathology: present and future of diagnostics and therapeutics in oncology", Pisa, Italy, May 3, 2018.

Peer review board

International Journal of Molecular Sciences (IF: 5.923)
Nutrients (IF: 5.717)
Journal of Endocrinological Investigation (IF: 4.256)
BMC Cancer (IF:4.430)
Diagnostics (IF: 3.706)

Mentoring

Bachelor's and Master's degree Biology students

Pisa, July 22, 2021

Signature

