CURRICULUM VITAE

VALERIA PECCE

Work experience:

Feb 2018 – Gen 2019

Postdoctoral Fellow, University of Udine

Supervisor: Prof. Giuseppe Damante
Department of Medical Area. University of Udine,
Via delle Scienze 206, 33100 Udine.
Clinical and Translational Research
Project Title: "Evaluation of human pathology by NGS apporoaches".

Jan 2017 – Dec 2017

Postdoctoral Fellow, "Sapienza" University of Rome

Supervisor: Prof. Sebastiano Filetti
Department of Internal Medicine and Medical Specialties. Policlinico Umberto I,
Viale del Policlinico 155, 00161 Rome.
Clinical and Translational Research
Project Title: "Molecular Characterization of intermediate and low risk thyroid cancers through Next Generation Sequencing approach".

Nov 2012 – Feb 2017

PhD student in Biotechnology in Clinical Medicine, "Sapienza" University of Rome

Supervisor: Prof. Sebastiano Filetti
Department of Internal Medicine and Medical Specialties. Policlinico Umberto I,
Viale del Policlinico 155, 00161 Rome.
Clinical and Translational Research
Thesis Title: "First evidence of synonymous mutation involvement in maturation rate of proto-oncogene *RET*".
May 2015 – Dec 2015 Maternity Leave

Oct 2010 – Oct 2012

Master student training in Genetics and Molecular Biology, "Sapienza" University of Rome

Supervisor: Prof. Giovanna Serino

Department of Biology and Biotechnology Charles Darwin. "Sapienza" University of Rome, Piazzale Aldo Moro 5, 00185 Rome.

Basic Research

Thesis Title: "The *Arabidopsis* COP9 SIGNALOSOME INTERACTING F-BOX KELCH 1 protein forms an SCF ubiquitin ligase and regulates hypocotyl elongation".

Mar 2010 – Jul 2010

Student training in Biological Science, "Sapienza" University of Rome

Supervisor: Prof. Giovanna Serino

Department of Biology and Biotechnology Charles Darwin. "Sapienza" University of Rome, Piazzale Aldo Moro 5, 00185 Rome.

Basic Research

Thesis Title: "The role of MPN domain in protein-protein interaction".

Academic studies:

28th Feb 2017 – **PhD in Biotechnology in Clinical Medicine**
"Sapienza" University of Rome, Piazzale Aldo Moro 5, 00185 Rome.
Final evaluation: Full marks with honors.

1st Oct 2013 - **National habilitation for professional Biologists**
Università degli studi della Tuscia, Via Santa Maria in Gradi 4, 01100 Viterbo.

17th Oct 2012 – **Master Degree in Genetics and Molecular Biology**
"Sapienza" University of Rome, Piazzale Aldo Moro 5, 00185 Rome.
Final evaluation: 110 (out of 110) cum laude.

21st Jul 2010 – **Bachelor Degree In Biological Science**
"Sapienza" University of Rome, Piazzale Aldo Moro 5, 00185 Rome.
Final evaluation: 95 (out of 110).

Personal Skills:

Languages:

ITALIAN - Mother tongue

ENGLISH – Advanced level

Oct 2010 – Jun 2011 - English course Trinity School - Certified level B1.2

SPANISH - Intermediate level

Oct 2005 - Diploma de Espanol como Lengua Extranjera (DELE) Instituto Cervantes - Nivel intermedio

FRENCH - Basic level

High School specialized in modern languages

Communicative and Organizational Skills:

Ability to manage and organize laboratory samples and reagent, aptitude to coordinate my work the work of groups of persons, planning training for collaborator and students, ability to explain scientific data and write scientific reports and papers.

Coordinated and organized projects:

- 2016 – 2018 National project: A synonymous RET substitution enhances the oncogenic effect of an in-cis missense mutation by increasing constitutive splicing efficiency.
- 2013 – 2015 National project: Molecular profiles of cancer stem-like cell populations in aggressive thyroid cancers.

Review activity for international journals:

Endocrine, Oncotarget and Hindawi

Laboratory Skills:

Knowledge of methods of growth and preservation of the different model systems: bacteria, yeast, Arabidopsis thaliana, animal cells.

Ex vivo techniques: primary cultures, 3D models, organoids growth.

Molecular Biology techniques: nucleic acid extractions from bacteria, yeast, plant and animal tissues, animal cells; PCR; Molecular Cloning; CRISP-R; RT-PCR; Real-Time PCR; Digital PCR; Sanger sequencing; Next-Generation Sequencing;

Biochemistry techniques: Western Blot; Immunoprecipitation; Immunofluorescence.

In vitro techniques: Yeast two-hybrid assay, ChIP, RIP.

Computer Skills:

Advanced knowledge of Microsoft Office (Word, Power Point, Excel) and graphical programs ImageJ and PhotoShop CS; expression analysis programs SDS 2.4, RQ Manager, Expression Suite, bioinformatics programs Genome browser, Human protein ATLAS, BLAST, Geneious, TAIR; statistic programs: GraphPad.

Course and conferences:

- Conference "Thyroid carcinoma - frontiers in diagnosis and management" Milan 22/10/201
- Workshop "Aggiornamenti di medicina molecolare in patologia clinica" Rome 15/04/2017
- Conference "Thyroid carcinoma - nuove frontiere nella diagnosi e terapia" Rome 21/06/2017
- "Congresso nazionale della Società Italiana di Endocrinologia" Rome 24/06/2017
- Workshop "Medical writing" Rome 29/01/2018
- "Expert meeting on RAI refractory differentiated thyroid cancer" Rome 12/04/2018
- Conference "2° Forum noduli della tiroide - nuove frontiere nella diagnosi e terapia" Rome 21/04/2018
- Conference "New frontieres in cancer treatment" Rome 18/05/2018

Foundings:

Principal investigator of research project "Analysis of new molecular mechanism involved in MTC aggressiveness and progression" – Sapienza Università di Roma, Progetti per avvio alla ricerca 2017

Co-investigator of research project "Identification of a miRNA signature associated with RAI-resistance in differentiated thyroid cancer patients"– Sapienza Università di Roma, Progetti di ricerca 2015

Principal investigator of research project: "Targeting protein kinases in thyroid cancer therapy" – Sapienza Università di Roma, Progetti per avvio alla ricerca 2014

Co-investigator of research project "Beyond RET: identification of new susceptibility genes for medullary thyroid cancer using a next generation sequencing-based approach" – Sapienza Università di Roma, Progetti di ricerca 2014

h-index: **8**
total pubbblications: **17**
total citations: **165**

Pubblications:

Falcone R, Conte F, Fiscon G, **Pecce V**, Sponziello M, Durante C, Farina L, Filetti S, Paci P, Verrienti A. BRAF(V600E)-mutant cancers display a variety of networks by SWIM analysis: prediction of vemurafenib clinical response. Endocrine. 2019 Mar 8. doi: 10.1007/s12020-019-01890-4. [Epub ahead of print] PubMed PMID: 30850937.

Maggisano V, Celano M, Lepore SM, Sponziello M, Rosignolo F, **Pecce V**, Verrienti A, Baldan F, Mio C, Allegri L, Maranghi M, Falcone R, Damante G, Russo D, Bulotta S. Human telomerase reverse transcriptase in papillary thyroid cancer:gene expression, effects of silencing and regulation by BET inhibitors in thyroid cancer cells. Endocrine. 2019 Mar;63(3):545-553. doi: 10.1007/s12020-018-01836-2. Epub 2019 Jan 19. PubMed PMID: 30661164.

Pecce V, Sponziello M, Damante G, Rosignolo F, Durante C, Lamartina L, Grani G, Russo D, di Gioia CR, Filetti S, Verrienti A. A synonymous RET substitution enhances the oncogenic effect of an in-cis missense mutation by increasing constitutive splicing efficiency. PLoS Genet. 2018 Oct 15;14(10):e1007678. doi: 10.1371/journal.pgen.1007678. eCollection 2018 Oct. PubMed PMID: 30321177; PubMed Central PMCID: PMC6201961.

Sponziello M, Silvestri G, Verrienti A, Perna A, Rosignolo F, Brunelli C, **Pecce V**, Rossi ED, Lombardi CP, Durante C, Filetti S, Fadda G. A novel nonsense EIF1AX mutation identified in a thyroid nodule histologically diagnosed as oncocytic carcinoma. Endocrine. 2018 Nov;62(2):492-495. doi: 10.1007/s12020-018-1611-7. Epub 2018 Apr 26. PubMed PMID: 29700698.

Rosignolo F, Sponziello M, Giacomelli L, Russo D, **Pecce V**, Biffoni M,Bellantone R, Lombardi CP, Lamartina L, Grani G, Durante C, Filetti S, Verrienti A. Identification of Thyroid-Associated Serum microRNA Profiles and Their Potential Use in Thyroid Cancer Follow-Up. J Endocr Soc. 2017 Jan 12;1(1):3-13. doi: 10.1210/js.2016-1032. eCollection 2017 Jan 1. PubMed PMID: 29264441; PubMed Central PMCID: PMC5677215.

Sponziello M, Benvenuti S, Gentile A, **Pecce V**, Rosignolo F, Virzì AR, Milan M, Comoglio PM, Londin E, Fortina P, Barnabei A, Appetecchia M, Marandino F, Russo D, Filetti S, Durante C, Verrienti A. Whole exome sequencing identifies a germline MET mutation in two siblings with hereditary wild-type RET medullary thyroid cancer. Hum

Mutat. 2018 Mar;39(3):371-377. doi: 10.1002/humu.23378. Epub 2017 Dec 20. PubMed PMID: 29219214.

Celano M, Rosignolo F, Maggisano V, **Pecce V**, Iannone M, Russo D, Bulotta S. MicroRNAs as Biomarkers in Thyroid Carcinoma. Int J Genomics. 2017;2017:6496570. doi: 10.1155/2017/6496570. Epub 2017 Sep 6. Review. PubMed PMID: 29038786; PubMed Central PMCID: PMC5606057.

Rosignolo F, Memeo L, Monzani F, Colarossi C, **Pecce V**, Verrienti A, Durante C, Grani G, Lamartina L, Forte S, Martinetti D, Giuffrida D, Russo D, Basolo F, Filetti S, Sponziello M. MicroRNA-based molecular classification of papillary thyroid carcinoma. Int J Oncol. 2017 May;50(5):1767-1777. doi:10.3892/ijo.2017.3960. Epub 2017 Apr 7. PubMed PMID: 28393181.

Verrienti A, Tallini G, Colato C, Boichard A, Checquolo S, **Pecce V**, Sponziello M, Rosignolo F, de Biase D, Rhoden K, Casadei GP, Russo D, Visani M, Acquaviva G, Ferdeghini M, Filetti S, Durante C. RET mutation and increased angiogenesis in medullary thyroid carcinomas. Endocr Relat Cancer. 2016 Aug;23(8):665-76. doi:10.1530/ERC-16-0132. Epub 2016 Jul 8. PubMed PMID: 27402614.

Sponziello M, Rosignolo F, Celano M, Maggisano V, **Pecce V**, De Rose RF, Lombardo GE, Durante C, Filetti S, Damante G, Russo D, Bulotta S. Fibronectin-1 expression is increased in aggressive thyroid cancer and favors the migration and invasion of cancer cells. Mol Cell Endocrinol. 2016 Aug 15;431:123-32. doi:10.1016/j.mce.2016.05.007. Epub 2016 May 10. PubMed PMID: 27173027.

Dima M, **Pecce V**, Biffoni M, Di Gioia CR, Tallini G, Biffoni M, Rosignolo F, Verrienti A, Sponziello M, Damante G, Russo D, Durante C. Molecular profiles of cancer stem-like cell populations in aggressive thyroid cancers. Endocrine. 2016 Jul;53(1):145-56. doi: 10.1007/s12020-015-0739-y. Epub 2015 Sep 14. PubMed PMID: 26370117.

Verrienti A, Carbone A, Bellitti P, Fabiano MC, De Rose RF, Maranghi M, Lucia P, Durante C, Rosignolo F, **Pecce V**, Sponziello M, Puppin C, Costante G, Bruno R. A NOVEL DOUBLE MUTATION VAL648ILE AND VAL804LEU OF RET PROTO-ONCOGENE IN MULTIPLE ENDOCRINE NEOPLASIA TYPE 2. Endocr Pract. 2015 Nov;21(11):1248-54. doi:10.4158/EP15838.OR. Epub 2015 Aug 6. PubMed PMID: 26247112.

Rosignolo F, Maggisano V, Sponziello M, Celano M, Di Gioia CR, D'Agostino M, Giacomelli L, Verrienti A, Dima M, **Pecce V**, Durante C. Reduced expression of THRβ in papillary thyroid carcinomas: relationship with BRAF mutation, aggressiveness and miR expression. J Endocrinol Invest. 2015 Dec;38(12):1283-9. doi: 10.1007/s40618-015-0309-4. Epub 2015 May 24. PubMed PMID: 26003825.

Forte S, La Rosa C, **Pecce V**, Rosignolo F, Memeo L. The role of microRNAs in thyroid carcinomas. Anticancer Res. 2015 Apr;35(4):2037-47. Review. PubMed PMID: 25862858.

Sponziello M, Verrienti A, Rosignolo F, De Rose RF, **Pecce V**, Maggisano V, Durante C, Bulotta S, Damante G, Giacomelli L, Di Gioia CR, Filetti S, Russo D, Celano M. PDE5 expression in human thyroid tumors and effects of PDE5 inhibitors on growth and migration of cancer cells. Endocrine. 2015 Nov;50(2):434-41. doi:10.1007/s12020-015-0586-x. Epub 2015 Apr 3. PubMed PMID: 25837309.

Puppin C, Durante C, Sponziello M, Verrienti A, **Pecce V**, Lavarone E, Baldan F,Campese AF, Boichard A, Lacroix L, Russo D, Filetti S, Damante G. Overexpression of genes involved in miRNA biogenesis in medullary thyroid carcinomas with RET mutation. Endocrine. 2014 Nov;47(2):528-36. doi: 10.1007/s12020-014-0204-3. Epub 2014 Feb 26. PubMed PMID: 24569963.

Franciosini A, Lombardi B, Iafrate S, **Pecce V**, Mele G, Lupacchini L, Rinaldi G, Kondou Y, Gusmaroli G, Aki S, Tsuge T, Deng XW, Matsui M, Vittorioso P, Costantino P, Serino G. The Arabidopsis COP9 SIGNALOSOME INTERACTING F-BOX KELCH 1 protein forms an SCF ubiquitin ligase and regulates hypocotyl elongation. Mol Plant. 2013 Sep;6(5):1616-29. doi: 10.1093/mp/sst045. Epub 2013 Mar 9. PubMed PMID: 23475998.

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Roma, 20-03-2019