

Pina Marotta



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Current Position: Post Doc.

Supervisor: Pasquale De Luca

Appointed on project: Tecnologie –omiche; genome editing

Affiliation:

Section RIMAR, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Università degli studi di Napoli Federico II, Naples, Italy	Master (Laurea)	2001-2006	Biological sciences
Università degli studi di Napoli Federico II, Naples, Italy	Ph.D.	2006-2010	Molecular Oncology and Endocrinology
Kedrion S.p.A., Naples, Italy	Training of highly qualified researchers	2007-2009	Study and production of preparations for anti-infective action
Biogem, Ariano Irpino (AV), Italy	Postdoc	2010-2014	Mouse models generation, genetic engineering, thyroid development
Biogem, Ariano Irpino (AV), Italy	Researcher (Fixed term)	2014-2015	Mouse models generation, genetic engineering, thyroid development
Biogem, Ariano Irpino (AV), Italy	Researcher (Permanent position)	2015-2017	Coordinator of the Animal Models Core facility
Università di Catanzaro Magna Graecia, Catanzaro, Italy	Postdoc	2017-2019	Cardiac stem cells and endogenous myocardial regeneration.

Stazione Zoologica Anton Dohrn, Naples, Italy	Postdoc	2019-	Molecular ecology, recombinant proteins and microalgae engineering
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Publications

Author of 19 publications on ISI-journals and 1 book chapter

List of publications of the last 10 years:

Journal Papers

Annunziata R, Hay-Mele B, Marotta P, Volpe M, Entrambasaguas L, Mager S, Stec K, Ribera d'Alcalà M, Sanges R, Finazzi G, Iudicone D, Montresor M, Ferrante MI.

Trade-off between sex and growth in diatoms: molecular mechanisms and demographic implications.
Sci Adv. 2022 Jan 21;8(3):eabj9466. doi: 10.1126/sciadv.abj9466. Epub 2022 Jan 19.

Marotta P, Salatiello F, Ambrosino L, Berruto F, Chiusano ML, Locascio A.

The Ascidia Ciona robusta Provides Novel Insights on the Evolution of the AP-1 Transcriptional Complex.

Front Cell Dev Biol. 2021 Aug 3;9:709696. doi: 10.3389/fcell.2021.709696. eCollection 2021.

Sabatino V, Orefice I, Marotta P*, Ambrosino L, Chiusano ML, d'Ippolito G, Romano G, Fontana A, Ferrante MI.

Silencing of a Pseudo-nitzschia arenysensis lipoxxygenase transcript leads to reduced oxylipin production and impaired growth.

New Phytol. 2021 Sep 17. doi: 10.1111/nph.17739. Online ahead of print.

*Corresponding author.

Albano F, Tucci V, Blackshear PJ, Reale C, Roberto L, Marotta P, Porreca I, Colella M, Mallardo M, De Felice M, Ambrosino C.

ZFP36L2 role in thyroid functionality.

Int J Mol Sci. 2021 Aug 29;22(17):9379. doi: 10.3390/ijms22179379.

Annunziata R, Balestra C, Marotta P, Ruggiero A, Manfellotto F, Benvenuto G, Biffali E, Ferrante MI.

An optimised method for intact nuclei isolation from diatoms.

Sci Rep. 2021 Jan 18;11(1):1681. doi: 10.1038/s41598-021-81238-z.

De Rosa A, Mastrostefano F, Di Maio A, Nuzzo T, Saitoh Y, Katane M, Isidori AM, Caputo V, Marotta P, Falco G, De Stefano ME, Homma H, Usiello A, Errico F.

Prenatal Expression of D-aspartate Oxidase Causes Early Cerebral D-aspartate Depletion and Influences Brain Morphology and Cognitive Functions at Adulthood.

Amino Acids. 2020 Apr;52(4):597-617. doi: 10.1007/s00726-020-02839-y. Epub 2020 Mar 17.

Addeo M, Buonaiuto S, Guerriero I, Amendola E, Visconte F, Marino A, De Angelis MT, Russo F, Roberto L, Marotta P, Russo NA, Iervolino A, Amodio F, De Felice M, Lucci V, Falco G.

Insight into Nephrocan Function in Mouse Endoderm Patterning.

Int J Mol Sci. 2019 Dec 18;21(1). pii: E8. doi: 10.3390/ijms21010008.

Torella D, Iaconetti C, Tarallo R, Marino F, Giurato G, Veneziano C, Aquila I, Scalise M, Mancuso T, Cianflone E, Valeriano C, Marotta P, Tammè L, Vicinanza C, Sasso FC, Cozzolino D, Torella M, Weisz A, Indolfi C.

miRNA Regulation of the Hyperproliferative Phenotype of Vascular Smooth Muscle Cells in Diabetes.

Diabetes. 2018 Dec;67(12):2554-2568.

Cianflone E, Aquila I, Scalise M, Marotta P, Torella M, Nadal-Ginard B, Torella D.

Molecular Basis of Functional Myogenic Specification of Bona Fide Multipotent Adult Cardiac Stem Cells.

Cell Cycle. 2018 Jun 3.

Marotta P, Cianflone E, Aquila I, Vicinanza C, Scalise M, Marino F, Mancuso T, Torella M, Indolfi C, Torella D.

Combining cell and gene therapy to advance cardiac regeneration.

Expert Opin Biol Ther. 2018 Apr;18(4):409-423.

Vicinanza C, Aquila I, Cianflone E, Scalise M, Marino F, Mancuso T, Fumagalli F, Giovannone ED, Cristiano F, Iaccino E, Marotta P, Torella A, Latini R, Agosti V, Veltri P, Urbanek K, Isidori AM, Saur D, Indolfi C, Nadal-Ginard B, Torella D.

Kit^{cre} knock-in mice fail to fate-map cardiac stem cells.

Nature. 2018 Mar 21;555(7697):E1-E5.

Vicinanza C, Aquila I, Scalise M, Cristiano F, Marino F, Cianflone E, Mancuso T, Marotta P, Sacco W, Lewis FC, Couch L, Shone V, Gritti G, Torella A, Smith AJ, Terracciano CM, Britti D, Veltri P, Indolfi C, Nadal-Ginard B, Ellison-Hughes GM, Torella D.

Adult cardiac stem cells are multipotent and robustly myogenic: c-kit expression is necessary but not sufficient for their identification.

Cell Death Differ. 2017 Aug 11.

La Rocca F, Airoidi I, Di Carlo E, Marotta P, Falco G, Simeon V, Laurenzana I, Trino S, De Luca L, Todoerti K, Villani O, Lackmann M, D'Auria F, Frassoni F, Neri A, Del Vecchio L, Musto P, Cilloni D, Caivano A.

EphA3 targeting reduces in vitro adhesion and invasion and in vivo growth and angiogenesis of multiple myeloma cells.

Cell Oncol (Dordr). 2017 Oct;40(5):483-496.

Aquila I, Marino F, Cianflone E, Marotta P, Torella M, Mollace V, Indolfi C, Nadal-Ginard B, Torella D.

The use and abuse of Cre/Lox recombination to identify adult cardiomyocyte renewal rate and origin.

Pharmacol Res. 2018 Jan;127:116-128.

Bellelli R, Vitagliano D, Federico G, Marotta P, Tamburrino A, Salerno P, Paciello O, Papparella S, Knauf JA, Fagin JA, Refetoff S, Troncone G, Santoro M.

Oncogene-induced senescence and its evasion in a mouse model of thyroid neoplasia.

Mol Cell Endocrinol. 2018 Jan 15;460:24-35.

Marotta P, Amendola E, Scarfò M, De Luca P, Zoppoli P, Amoresano A, De Felice M, Di Lauro R.

The Paired Box transcription factor PAX8 is essential for function and survival of adult thyroid cells.

Mol Cell Endocrinol. 2014 Oct;396(1-2):26-36.

Cerulo L, Tagliaferri D, Marotta P, Zoppoli P, Russo F, Mazio C, De Felice M, Ceccarelli M, Falco G.

Identification of a novel gene signature of ES cells self-renewal fluctuation through system-wide analysis.

PLoS One. 2014 Jan 2;9(1)

Book chapters

Scalise M, Marino F, Cianflone E, Mancuso T, Marotta P, Aquila I, Torella M, Nadal-Ginard B, Torella D.

Heterogeneity of Adult Cardiac Stem Cells

Advances in experimental medicine and biology. 2019;1169:141-178.

Databases and repositories (Figshare, arXiv)