

## Gennaro Riccio



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**Current Position:** Research fellow

### **Affiliation:**

Marine Biotechnology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

### **Education/Training/Experience**

<b>Institute and Location</b>	<b>Degree / Function</b>	<b>Year</b>	<b>Field of Study</b>
University of Naples “Federico II”, Naples, Italy	Master (Laurea)	1997-2004	Biological sciences
Department of Biology, University of Naples “Federico II”, Naples, Italy	Ph.D.	2004-2007	Biochemistry and Cellular and Molecular Biology
Department of Biology, University of Naples “Federico II”, Naples, Italy	Post Doc	2008-2009	Cardiotoxic effects of immunoagents
Department of Biology, University of Naples “Federico II”, Naples, Italy	Post Doc	2011-2012	New anticancer drugs engineering and development of tribodies for Her2 targeting
Ceinge-Biotecnologie Avanzate, Naples, Italy	Research Fellow	2013-2014	<i>In vitro</i> synthesis of new antibodies for inhibition of HCV infection
IRCCS-Fondazione Nazionale Tumori – Fondazione Pascale, Naples, Italy	Research Fellow	2015	Anthracycline and target-therapy cardiotoxic side effects
Department of Pharmacy, University of Naples “Federico II”, Naples, Italy	Research Fellow	2016-2019	Deorphanization and structural and conformational analyses of GPCRs. Pharmacological interactions between receptors and nutraceuticals

## **Other matters relevant to scientific career**

PATENTS: Co-inventor of WO2016135239 A1, entitled “Fusion proteins comprising three binding domains to Her2”.

## **Publications**

Author of 30 publications on ISI-journals

### *List of publications of the last 10 years:*

#### *Journal Papers*

Fedele C, **Riccio G**, Malara AE, D’Alessio G, De Lorenzo C. Mechanisms of cardiotoxicity associated with ErbB2 inhibitors. *Breast Cancer Res Treat.* 2012 Jul;134(2):595-602

**Riccio G**, D’Avino C, Raines RT, De Lorenzo C. “A novel fully human antitumor ImmunoRNase resistant to the RNase inhibitor” *Protein Eng Des Sel.* 2013 Mar;26(3):243-248

**Fedele C**, Carvalho S, Riccio G, Paciello R, Laccetti P, Schmitt F, De Lorenzo C. (2013) “Effects of a human compact anti-ErbB2 antibody on gastric cancer.” *Gastric Cancer* 2014 Jan;17(1):107-115

D’Avino C, Paciello R, **Riccio G**, Coppola M, Laccetti P, Maurea N, Raines RT, De Lorenzo C. “Effects of a second-generation human anti-ErbB2 ImmunoRNase on trastuzumab-resistant tumors and cardiac cells.” *Protein Eng Des Sel.* 2014 Mar;27(3):83-88.

Paciello R, Urbanowicz RA, **Riccio G**, Sasso E, Zambrano N, Ball JK, Cortese R, Nicosia A, De Lorenzo C. “Novel Human Anti-Claudin 1 Monoclonal Antibodies Inhibit HCV Infection and Synergize with Anti-SRB1 mAb” *journal of general virology* 2016 Jan;97(1):82-94.

Sasso E, Paciello R, D’Auria F, **Riccio G**, Froehlich G, Cortese R, Nicosia A, De Lorenzo C, Zambrano N. “One-Step Recovery of scFv Clones from High Throughput Sequencing-Based Screening of Phage Display Libraries Challenged to Cells Expressing Native Claudin-1” *BioMed Research International* 2015;2015:703213.

**Riccio G**, Coppola C, Piscopo G, Capasso I, Maurea C, Esposito E, De Lorenzo C and Maurea N. Trastuzumab and target-therapy side effects: is still valid classification between Anthracyclines Type I and target Therapy Type II cardiomyopathies? *Human Vaccines & Immunotherapeutics* 2016 May 3;12(5):1124-1131.

Maurea N, Coppola C, Piscopo G, Galletta F, **Riccio G**, Esposito E, De Lorenzo C, De Laurentiis M, Spallarossa P, Mercurio G. Pathophysiology of Cardiotoxicity from Target Therapy and Angiogenesis Inhibitors *Journal of Cardiovascular Medicine* 2016 May;17 Suppl 1:S19-26.

Coppola C, **Riccio G**, Barbieri A, Monti MG, Piscopo G, Rea D, Arra C, Maurea C, De Lorenzo C, Maurea N. Antineoplastic-related cardiotoxicity, morphofunctional aspects in a murine model: contribution of the new tool 2D-speckle tracking *Onco Targets Ther.* 2016 Nov 2;9:6785-6794

**Riccio G**, Da Fonseca-Ricardo AR, Passariello M, Cunnah P, Mertens N, De Lorenzo C Superior Suppression of ErbB2-positive Tumor Cells by a Novel Human Triparatopic Tribody. *J Immunother.* 2017 Jan 25. doi: 10.1097/CJI.000000000000152

- Riccio G**, Maisto M, Bottone S, Badolati N, Rossi GB, Tenore GC, Stornaiuolo M, and Novellino E. WNT Inhibitory Activity of Malus Pumila Miller cv Annurca and Malus Domestica cv Limoncella Apple Extracts on Human Colon-Rectal Cells Carrying Familial Adenomatous Polyposis Mutations. *Nutrients*. 2017 Nov 18;9(11). pii: E1262. doi: 10.3390/nu9111262
- Riccio G**, Bottone S, La Regina G, Badolati N, Passacantilli S, Rossi GB, Accardo A, Dentice M, Silvestri R, Novellino E, Stornaiuolo M. A negative allosteric modulator of the WNT receptor Frizzled 4 switches into an allosteric agonist. *Biochemistry*. 2018 Feb 6;57(5):839-851. doi: 10.1021/acs.biochem.7b01087 doi: 10.1021/acs.biochem.7b01087. [Epub ahead of print]
- Riccio G**, Antonucci S, Coppola C, D'Avino C, Piscopo G, Fiore D, Maurea C, Russo M, Rea D, Arra C, Condorelli G, Di Lisa F, Tocchetti CG, De Lorenzo C and Maurea N. Ranolazine attenuates trastuzumab-induced heart dysfunction by modulating ROS production *Front. Physiol.* 2018 Feb 6;9:38. | doi: 10.3389/fphys.2018.00038
- Tenore CG, Bottone S, **Riccio G**, Badolati N, Stornaiuolo M, and Novellino E. A Crosstalk between Melatonin and Taste-Receptors' Signaling Tunes Quinine-Induced Gut Hormone Secretion in Mice *Journal of nutrition & food science* 2018 8,664 doi: 10.4172/2155-9600.1000664
- De Lorenzo C, Paciello R, Riccio G, Rea D, Barbieri A, Coppola C, Maurea N. Cardiotoxic effects of the novel approved anti-ErbB2 agents and reverse cardioprotective effects of ranolazine. *Onco Targets Ther.* 2018 Apr 11:2241-2250 DOI <https://doi.org/10.2147/OTT.S157294>
- Badolati N, Sommella E, **Riccio G**, Salviati E, Bottone S, Dentice M, Tenore G, Campiglia P, Stornaiuolo M, Novellino E. Annurca Apple Polyphenols ignite Keratin production in Hair Follicles by inhibiting Pentose Phosphate Pathway and Amino Acid Oxidation. *Nutrients* 2018 Nov 20;10(11). pii: E1808. doi:10.3390/nu10101406
- Riccio G**, Da Fonseca-Ricardo AR, Passariello M, Saraiva K, Rubino V, Cunnah P, Mertens N, De Lorenzo C. T cell activating Tribodies as a novel approach for efficient killing of ErbB2-positive cancer cells. *Journal of Immunotherapy* 2019 Jan;42(1):1-10. doi: 10.1097/CJI.0000000000000248
- Sommella E, Badolati N, **Riccio G**, Salviati E, Bottone S, Dentice M, Campiglia P, Tenore GC, Stornaiuolo M and Novellino E. A Boost in Mitochondrial Activity Underpins the Cholesterol-Lowering Effect of Annurca Apple Polyphenols on Hepatic Cells. *Nutrients* 2019, 11(1), 163; doi:10.3390/nu11010163
- Riccio G**, Lauritano C. Microalgae with Immunomodulatory Activities. *Mar Drugs* 2020, 18(1), 2 <https://doi.org/10.3390/md18010002>
- Lauritano C, Helland K, **Riccio G**, Andersen JH, Ianora A, Hansen EH. Lysophosphatidylcholines and Chlorophyll-Derived Molecules from the Diatom *Cylindrotheca closterium* with Anti-Inflammatory Activity *Mar. Drugs* 2020, 18(3), 166; <https://doi.org/10.3390/md18030166>