

Maria Sirakov



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Current Position: ricercatore III level

Current Affiliation:

Department of Biology and Evolution of Marine Organisms, 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, Italy	<i>Laurea cum laude</i> (M2R, Natural Science)	2003	Characterization of extremophiles algae
Università degli Studi di Palermo, Italy	<i>Master</i> I level (Environmental Education)	2004	Environmental Education
Università degli studi della Calabria, Italy	PhD (Animal Biology)	2007	Identification of orthologous genes in marine invertebrate
Institut de Génomique Fonctionnelle de Lyon (IGFL), École Normale Supérieure de Lyon, France	Post Doc	2008-2011	Intestinal development and tumorigenesis
Institut de Biologie et de Médecine Moléculaires (IBMM), Université Libre de Brussels (ULB, Brussels)-Belgium	Post Doc	2011-2013	Transcription factors in neurogenesis

Instituto di Genetica e Biophysica (IGB) 'Adriano Buzzati-Traverso', CNR, Italy	Post Doc	2013	Stem cells Biology
Telethon Institute of Genetics and Medicine (TIGEM), Italy	Post Doc	2013-2016	Direct Conversion and Cellular Therapy
Università degli Studi della Campania Vanvitelli, Italy	Post Doc	2017-2019	Biotechnological applications of extremophiles algae
Stazione Zoologica Anton Dohrn, Italy	Researcher	2019-today	Somatic Stem cells in marine animals

Appointments and awards

Associate Professor National Scientific Qualification SSD: 05/F1, Applied Biology (19-09-2018)

Training Courses

- Course for FACS Aria user at BD Training Centre of Milan, Italy (2015)
- iPSCs Derivation and Culture course at Cambridge University, UK (2014)
- Summer School on Nuclear Receptors of Federation of European Biochemical Societies (FEBS) at Spetses, Greece (2009)
- Transcriptomic and data analysis course at the European Molecular Biology Lab (EMBL) Hinxton, UK (2009)
- Evo-Devo meets Marine Genomics at Stazione Zoologica “A. Dohrn” Napoli, Italy (2007)
- Generation of cDNA libraries at “Max Planck” in Berlin, Germany (2006)

Scientific Society Member

- 2013 Founding Member of Mare Vivo (Sea Live) Delegazione di Capri
- Since 2017 Member of Società dei Naturalisti (Society of Natural Scientist) in Naples
- From 2012 to 2014 Member of the Belgian Society for Cell and Developmental Biology (BSCBDS)
- From 2012 to 2014 Member of the Federation of European Biochemical Societies (FEBS)

Reviewer

BMC Molecular Biology, Biochimica et Biophysica Acta, PloS ONE, Scientific Reports, Molecular and Cellular Endocrinology.

List of publications

Peer-reviewed articles

- Ciniglia C, Cennamo P, De Natale A, De Stefano M, SIRAKOV M, Iovinella M, Yoon HS, Pollio A (2019) *Cyanidium chilense* (Cyanidiophyceae, Rhodophyta) from tuff rocks of the archeological site of Cuma, Italy. *Phycological Research* 67(4): 311-319.
- SIRAKOV M, Toscano E, Iovinella M, Davis SJ, Petriccione M, Ciniglia C (2018) Tolerance and metabolic responses of Cyanidiophytina (Rhodophyta) towards exposition to Cl_4K_2Pd and $AuCl_4K$. *Phycology International* 1(1).
- Skah S, Uchuya-Castillo J, SIRAKOV M and Plateroti M (2017) The thyroid hormone nuclear receptors and the Wnt/ β -catenin pathway: An intriguing liaison. *Developmental Biology* 422 (2): 71-82.
- SIRAKOV M, Kress E, Boussouar A, Lone IN, Nadjar J, Plateroti M (2015) The nuclear receptor TR α 1 controls the Notch signalling in the murine intestine. *Development* 142(16):2764-74.
- Skah S, Nadjar J, SIRAKOV M and Plateroti M (2015) The secreted Frizzled-Related Protein 2 modulates cell fate and the Wnt pathway in the murine intestinal epithelium. *Experimental Cell Research* 330(1):56-65.
- SIRAKOV M, Kress E, Nadjar J, Plateroti M (2014) Thyroid hormones and their nuclear receptors: new players in intestinal epithelium stem cell biology? *Cellular and Molecular Life Science* 71(15):2897-907.
- Bellefroid EJ, Leclère L, Saulnier A, Keruzore M, SIRAKOV M, Vervoortc M, De Clercq S (2013) Expanding roles for the evolutionarily conserved Dmrt sex transcriptional regulators during vertebrate embryogenesis. *Cellular and Molecular Life Science* 70(20):3829-45.
- Diala I, Wagner N, Magdinier F, Shkreli M, SIRAKOV M, Bauwens S, Schluth-Bolard C, Simonet T, Renault VM, Ye J, Djerbi A, Pineau P, Choi J, Artandi S, Dejean A, Plateroti M and Gilson E (2013) Telomere protection and TRF2 expression are modulated by the canonical Wnt signaling pathway. *EMBO Report* 14(4):356-63.
- SIRAKOV M, Borra M, Cambuli FM, Plateroti M (2013) Defining Suitable Reference Genes for RTqPCR Analysis on Intestinal Epithelial Cells. *Molecular Biotechnology* 54(3):930-8.
- Parlier D, Moers V, Van Campenhout C, Preillon J, Leclère L, Saulnier A, SIRAKOV M, Busengdal H, Kricha S, Marine JC, Rentzsch F, Bellefroid EJ (2013) The *Xenopus* doublesex-related gene *Dmrt5* is required for olfactory placode neurogenesis. *Developmental Biology* 373:39-52.
- SIRAKOV M, Skah S, Nadjar J, Plateroti M (2013) Thyroid hormone's action on progenitor/stem cell biology: New challenge for a classic hormone? *Biochimica et Biophysica Acta* 1830 (7): 3917-3927.
- SIRAKOV M and Plateroti M (2011) The thyroid hormones and their nuclear receptors in the gut: From developmental biology to cancer. *Biochimica et Biophysica Acta* 1812(8):938-46.

Kress E, Skah S, SIRAKOV M., Nadjar J, Gadot N, Scoazec J, Samarut J Plateroti M. (2010) Cooperation Between the Thyroid Hormone Receptor TRa1 and the WNT Pathway in the Induction of Intestinal Tumorigenesis. *Gastroenterology* 138: 1863-1874.

SIRAKOV M, Zarrella I, Borra M, Rizzo F, Biffali E, Arnone MI, Fiorito G Selection and validation of a set of reliable reference genes for quantitative RT-PCR studies in the brain of Cephalopod Mollusc *Octopus vulgaris*. *BMC Molecular Biology* 2009; 10:70.

Book chapter

SIRAKOV M and Plateroti M (2018) In Vitro Approaches to Identify Thyroid Hormone Receptor-Dependent Transcriptional Response. *Methods Molecular Biology* 1801:29-38.