

Salvatore D'Aniello



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Current Position: Ricercatore III° livello

Current Affiliation:

Section Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree	Year	Field of Study
University of Barcelona (Spain)	Associate Professor (Departement of Genetics)	2010	Evolutionary and Developmental Biology (Evo-Devo)
Institute of Molecular Biology of Barcelona IBMB (Spain)	Research Fellow	2009	Evolutionary and Developmental Biology (Evo-Devo)
University of Barcelona (Spain)	Post-doctoral Research Fellow (Prof. J. Garcia-Fernández)	2004-2009	Evolutionary and Developmental Biology (Evo-Devo)
Second University of Napoli (SUN)	PhD (Neuroscience)	2003	Neurobiology
Università degli Studi di Napoli Federico II	Degree (Biology)	1999	Developmental Biology

Appointments and Awards

- 2004 **Alberto Monroy Award** of *Fondazione Alberto Monroy*, Department of Cellular Biology and Development, University of Palermo (Italy).
- 2004 “Embryology: Concepts and Techniques in Modern Development Biology” Course Fellow at the Marine Biological Laboratory in Woods Hole, MA (USA).
- 2008 Co-Organizer of the Second Euro Evo-Devo Conference, European Society for Evolutionary Developmental Biology, 29th July - 1th August, Ghent (Belgium).
- 2010 Co-Organizer of the BCN Developmental Biology Joint Retreat, 14-15th October, Sant Feliu de Guixols, Girona (Spain).
- 2012 Abilitazione Universitaria di Seconda fascia per il Settore Concorsuale 05/E2 - Biologia Molecolare e per il Settore Concorsuale 05/B2 - Anatomia Comparata e Citologia

Research Grants

- 2013-(2018) FIRB - Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR). Project number RBFR12QW4I. Principal Investigator: S. D’Aniello
- 2011-(2015) Marie Curie Career Integration Grants (CIG), FP7-PEOPLE (Europe) Project number PCIG-GA-2011-293871. Principal Investigator: S. D’Aniello

Students’ Supervision

PhD supervisor of 5 Ph.D. students and 4 Master or Erasmus students.

Publications

Author of 34 publications on ISI-journals (h index: 16)

List of publications of the last 10 years (2005-present):

Peer-reviewed publications:

Anishchenko E and D’Aniello S. Tunicate neurogenesis: the case of the SoxB2 missing CNE. *Bringing Math to Life*. Springer (in press 2015).

Vassalli QA, Anishchenko E, Caputi L, Sordino P, D’Aniello S*, Locascio A*. Regulatory elements retained during chordate evolution: Coming across tunicates. *Genesis* (2015) 53: 66-81.

Pascual-Anaya J, D’Aniello S, Kuratani S, Garcia-Fernàndez J. Evolution of the Hox clusters in deuterostomes. *BMC Developmental Biology* (2013) 13: 26.

Ullrich-Luter EM, D'Aniello S, Arnone MI. C-opsin Expressing Photoreceptors in Echinoderms. *Integrative and Comparative Biology* (2013) 53: 27-38.

Pascual-Anaya J, Adachi N, Alvarez S, Kuratani N, D'Aniello S, Garcia-Fernández J. Broken colinearity of amphioxus *Hox* cluster. *EvoDevo* (2012) 3: 28.

López-Doménech G, Serrat R, Mirra S, D'Aniello S, Somorjai I, Abad A, Vitureira N, García-Arumí E, Alonso MT, Rodríguez-Prados M, Burgaya F, Andreu AL, García-Sancho J, Trullas R, García-Fernández J and Soriano E. The Eutherian *Armcx* genes regulate mitochondrial trafficking in neurons and interacts with Miro and Trak2. *Nature Communications* (2012) 3:814.

Esposito R, D'Aniello S, Squarzoni P, Pezzotti MR, Ristoratore F, Spagnuolo A. New Insights into the Evolution of Metazoan Tyrosinase Gene Family. *PLoS One* (2012) 7(4): e35731.

Royo JL, Maeso I, Irimia M, Gao F, Peter IS, Lopes C, D'Aniello S, Casares F, Davidson EH, Garcia-Fernández J, Gómez-Skarmeta JL. Transphyletic conservation of developmental regulatory state in animal evolution. *Proc Natl Acad Sci U S A* (2011) 108: 14186-91.

D'Aniello S, Somorjai I, Garcia-Fernández J, Topo E, D'Aniello A. D-Aspartic acid is a novel endogenous neurotransmitter. *FASEB Journal* (2011) 25: 1014-27.

Andreakis N, D'Aniello S, Albalat R, Patti FP, Garcia-Fernández J, Procaccini G, Sordino P, Palumbo A. Evolution of the Nitric Oxide Synthase family in metazoans. *Molecular Biology and Evolution* (2011) 28: 163-79.

Punnamoottil B, Herrmann C, Pascual Anaya J, D'Aniello S, Garcia-Fernández J, Akalin A, Becker TS, Rinkwitz S. *Cis*-regulatory characterization of sequence conservation surrounding the *Hox4* genes. *Developmental Biology* (2010) 340: 269-282.

Vila-Farré M, Sluys R, D'Aniello S, Cebriá F, Ferrer X, Romero R. Marine planarians (Platyhelminthes, Tricladida, Maricola) from the western Mediterranean Sea and the Cantabrian coast: new records, one new genus, and immunocytochemistry of the nervous system. *Journal of the Marine Biological Association of the United Kingdom* (2010) 90: 409-422.

Garcia-Fernández J, Jiménez-Delgado S, Pascual-Anaya J, Maeso I, Irimia M, Minguillón C, Benito-Gutiérrez E, Gardenyes J, Bertrand S, D'Aniello S. From the American to the European Amphioxus: towards Experimental Evo-Devo at the Origin of Chordates. *International Journal of Developmental Biology* (2009) 53: 1359-66.

Chambery A, Parente A, Topo E, Garcia-Fernández J, D'Aniello S. Characterization and Putative Role of a Type I Gonadotropin-Releasing Hormone in the Cephalochordate Amphioxus. *Endocrinology* (2009) 150: 812-820.

Pascual-Anaya J, D'Aniello S, Garcia-Fernandez J. Unexpectedly large number of conserved non-coding regions within the ancestral chordate *Hox* cluster. *Development, Genes and Evolution* (2008) 218: 591-7.

D'Aniello S, Irimia M, Maeso I, Jiménez-Delgado S, Pascual-Anaya J, Bertrand S, Garcia-Fernández J. Gene expansion and retention leads to a diverse Tyrosine kinase superfamily in amphioxus. *Molecular Biology and Evolution* (2008) 25: 1841-54.

Sordino P, Andreakis N, Brown ER, Leccia NI, Squarzoni P, Tarallo R, Alfano C, Caputi L, D'Ambrosio P, Daniele P, D'Aniello E, D'Aniello S, Maiella S, Miraglia V, Russo MT, Sorrenti G, Branno M, Cariello L, Cirino P, Locascio A, Spagnuolo A, Zanetti L, Ristoratore F. Natural Variation of Model Mutant Phenotypes in *Ciona intestinalis*. *PLOS ONE* (2008) 3: e2344.

Monteforte R, Santillo A, Lanni A, D'Aniello S, Baccari GC. Morphological and biochemical changes in the Harderian gland of hypothyroid rats. *Journal Experimental Biology* (2008) 211: 606-12.

D'Aniello S, Fisher GH, Topo E, Ferrandino G, Garcia-Fernández J, D'Aniello A. N-Methyl-D-aspartic Acid (NMDA) in the nervous system of the amphioxus *Branchiostoma lanceolatum*. *BMC Neuroscience* (2007) 8: 109.

Fuentes M, Benito E, Bertrand S, Paris M, Mignardot A, Godoy L, Jimenez-Degado S, Olivieri D, Candiani S, Hirsinger E, D'Aniello S, Pascual-Anaya J, Pestarino M, Vernier P, Nicolas JF, Schunert M, Laudet V, Genevriere AM, Albalat R, Garcia-Fernandez J, Holland ND, Escrivà H. Insight into spawning behaviour and development of the mediterranean Amphioxus (*Branchiostoma lanceolatum*). *Journal of Experimental Zoology. Part B: Molecular and Developmental Evolution* (2007) 308B: 484-493.

Garcia-Fernández J, D'Aniello S, Escrivà H. Organizing chordates with an organizer. *BioEssays* (2007) 29: 619-624.

D'Aniello S, Garcia-Fernandez J. D-Aspartic acid and L-amino acids in the neural system of the amphioxus *Branchiostoma lanceolatum*. *Amino Acids* (2007) 32: 21-26.

D'Aniello S, D'Aniello E, Locascio A, Memoli A, Corrado M, Russo MT, Aniello F, Fucci L, Brown ER, Branno M. The ascidian homologue of the vertebrate homeobox gene Rx is essential for ocellus development and function. *Differentiation* (2006) 74: 222-234.

Pascual-Anaya J, D'Aniello S. Free amino acids in the nervous system of the amphioxus *Branchiostoma lanceolatum*. A comparative study. *International Journal of Biological Sciences* (2006) 2: 87-92.

Rauci F, D'Aniello S, Di Fiore MM. Endocrine roles of D-aspartic acid in the testis of lizard *Podarcis s. sicula*. *Journal of Endocrinology* (2005) 187: 347-359.

D'Aniello S, Spinelli P, Ferrandino G, Peterson K, Tsesarskia M, Fisher G, D'Aniello A. Cephalopod vision involves dicarboxylic amino acids: D-aspartate, L-aspartate and L-glutamate. *Biochemical Journal* (2005) 386: 331-340.