

Dr. Antonietta Spagnuolo

Born in Avellino (Italy) the 13/12/1956

Researcher at the SZN from 1989, currently II level

Cellular and Developmental Biology Lab

Education/Training *(Begin with Laurea or other initial professional education, and include postdoctoral training)*

Institute and Location	Degree (if applicable)	Year	Field of Study
University Federico II of Napoli	Laurea in Biological Science	1981	Endorphins and opioid receptors in invertebrates
Stazione Zoologica Anton Dohrn	Fellowships	1983-1988	Biological active peptides in marine organisms
Stazione Zoologica Anton Dohrn	Researcher III level	1989-2000	Molecular mechanisms controlling embryonic differentiation in the ascidia <i>C. intestinalis</i>
Institute of Human Genetics, Laboratory of Prof Chris Wylie, Minneapolis, University of Minnesota.	Visiting scientist	October 1994-December 1995	Roles of maternal α -catenin and plakoglobin in the early <i>Xenopus</i> embryo
Stazione Zoologica Anton Dohrn	Researcher II level	2000 to date	Endoderm and Sensory organs differentiation in <i>Ciona</i>

Appointments and awards

June 1999 and 2000

Invited Teacher at the TMR course in Evolutionary Developmental Biology, ascidian session, Roscoff, France.

Tutor of 5 degree thesis and 1 PhD thesis national and international

Member of national and international PhD examination panels

Author of 20 papers on international referenced (ISI) journals and 1 book chapter

- Kofron, M., Spagnuolo, A., Klymkowsky, M., Wylie, C. and Heasman, J. (1997). The roles of alpha-catenin and plakoglobin in the early *Xenopus* embryo. *Development* 124, 1553-1560
- Ristoratore, F., Spagnuolo, A., Aniello, F., Branno, M., Fabbrini, F., and Di Lauro R. (1999). Expression and functional analysis of *Cititf1*, an ascidian NK-2 class gene, suggests its role in fate restriction and development of endoderm. *Development* 126, 5149-5159.
- Spagnuolo A. and Di Lauro R. *Cititf1* and endoderm differentiation in *Ciona intestinalis*. *Gene*. 2002 Apr 3; 287(1-2):115-9.
- Dehal P, Satou Y, Campbell RK, Chapman J, Degnan B, De Tomaso A, Davidson B, Di Gregorio A, Gelpke M, Goodstein DM, Harafuji N, Hastings KE, Ho I, Hotta K, Huang W, Kawashima T, Lemaire P, Martinez D, Meinertzhagen IA, Nacula S, Nonaka M, Putnam N, Rash S, Saiga H, Satake M, Terry A, Yamada L, Wang HG, Awazu S, Azumi K, Boore J, Branno M, Chin-Bow S, DeSantis R, Doyle S, Francino P, Keys DN, Haga S, Hayashi H, Hino K, Imai KS, Inaba K, Kano S, Kobayashi K, Kobayashi M, Lee BI, Makabe KW, Manohar C, Matassi G, Medina M, Mochizuki Y, Mount S, Morishita T, Miura S, Nakayama A, Nishizaka S, Nomoto H, Ohta F, Oishi K, Rigoutsos I, Sano M, Sasaki A, Sasakura Y, Shoguchi E, Shin-i T, Spagnuolo A, Stainier D, Suzuki MM, Tassy O, Takatori N, Tokuoka M, Yagi K, Yoshizaki F, Wada S, Zhang C, Hyatt PD, Larimer F, Detter C, Doggett N, Glavina T, Hawkins T, Richardson P, Lucas S, Kohara Y, Levine M, Satoh N, Rokhsar DS. (2002) The draft genome of *Ciona intestinalis*: insights into chordate and vertebrate origins. *Science*. (2002) Dec 13; 298 (5601): 2157-67.
- D' Ambrosio, P., Fanelli, A., Pischetola, M. and Spagnuolo, A. (2003) *Ci-GATAa*, a *GATA*-class gene from the ascidian *Ciona intestinalis*: isolation and developmental expression. *Developmental Dynamics* 226:145–148, 2003
- Spagnuolo, A., Ristoratore, F., Di Gregorio, A., Aniello, F., Branno M. and Di Lauro R. (2003). Unusual number and genomic organization of Hox genes in the tunicate *Ciona intestinalis*. *Gene* 309(2):71-9.
- Wada, S., Tokuoka, M., Shoguchi, E., Kobayashi, K., Di Gregorio, A., Spagnuolo, A., Branno, M., Kohara, Y., Rokhsar, D., Levine, M., Saiga, H., Satoh N. and Satou, Y. (2003) A genome wide survey of developmentally relevant genes in *Ciona intestinalis* II. Genes for homeobox transcription factors. *Dev Genes Evol* 213(5-6):222-34
- Fanelli, A., Lania, G., Spagnuolo, A. and Di Lauro R. (2003) Interplay of negative and positive signals controls endoderm-specific expression of the ascidian *cititf1* gene promoter. *Developmental Biology* 263(1):12-23.

Alfano C, Teresa Russo M, Spagnuolo A. (2007) Developmental expression and transcriptional regulation of Ci-Pans, a novel neural marker gene of the ascidian, *Ciona intestinalis* *Gene* 406(1-2):36-41

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. (2008) Natural variation of model mutant phenotypes in *Ciona intestinalis*. *PLoS ONE* 3(6): e2344.