

## Giovanna Benvenuto, *PhD*



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**Current Position:** Technologist

**Current Affiliation:**

Morpho-Functional Analysis and Bioimaging Unit, Section Research Infrastructures for Marine Biological Resources, 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>
Università degli Studi di Napoli Federico II	Master (Laurea)	1991	Biological sciences
Facoltà di Medicina, Università degli Studi di Napoli	Research Fellow	1992-1996	Regulation of gene expression
National Institute of Health, National Cancer Institute, Laboratory of Cellular oncology, Bethesda, MD, USA	Research Fellow	1996-1999	Cell biology; cell growth regulation
Facoltà di Medicina, Università degli Studi di Napoli	PhD	2000	Cellular and Molecular Biology and Pathology
Facoltà di Medicina, Università degli Studi di Napoli	Research Fellow	2000-2001	Cell biology; Protein-protein interaction
Stazione Zoologica Anton Dohrn, Napoli, Italy	Researcher	2001-2010	Light regulation of gene expression, Epigenetic
Advanced Light Microscopy Facility and Electron Microscopy Facility, EMBL, Heidelberg, Germany	Visiting Scientist	2008	Advanced Light Microscopy and Electron Microscopy
Stazione Zoologica Anton Dohrn, Napoli, Italy	Technologist	2010-present	Cell biology; Morpho-functional analyses

## **Appointments and awards**

1993 – 1995: CNR Fellowship

Aug/Nov 1994: Special grant Ministero dell'Università e della Ricerca for stages abroad

2000-2001: Università degli Studi di Napoli Fellowship

2008: EMBO Short Term Fellowship

2008 –2014: Coordinator of Confocal Microscopy Facility

2010 – 2014: Coordinator of Electron Microscopy Facility

*Tutor of 2 degree thesis and 1 PhD thesis*

## **Publications**

Author of 27 publications on ISI-journals (h-index: 20)

### ***List of publications***

Vicidomini, R., Di Giovanni, A., Petrizzo, A., Iannucci, A., Benvenuto, G., Nagel, A., Preiss, A. and Furia, M. Loss of Drosophila pseudouridine synthase triggers apoptosis-induced proliferation and promotes cell-nonautonomous EMT. 2015. Cell Death Dis. 2015. Mar 26,6:e1705.

Santamaria, G., Esposito, CL., Cerchia, L., Benvenuto, G., Nanjappa, D., Sarno, D., Zingone, A., De Franciscis, V. and Ribera d'Alcalà, M. Aptamers are an innovative and promising tool for phytoplankton taxonomy and biodiversity research. 2015. Chemistry and Ecology.1-12.

Bosnjak, I., Borra, M., Iamunno, F., Benvenuto, G., Ujevic, I., Buselic, I., Roje-Busatto, R., Mladineo, I. Effect of bisphenol A on P-glycoprotein-mediated efflux and ultrastructure of the sea urchin embryo. 2014. Aquat. Toxicol. 156: 21-29.

Carotenuto, M., De Antonellis, P., Liguori, L., Benvenuto, G., Magliulo, D., Alonzi, A., Turino, C., Attanasio, C., Damiani, V., Bello, AM., Vitiello, F., Pasquinelli, R., Terracciano, L., Federico, A., Fusco, A., Freeman, J., Dale, TC., Decraene, C., Chiappetta, G., Piantedosi, F., Calabrese, C. and Zollo, M. H-Prune through GSK-3 $\beta$  interaction sustains canonical WNT/ $\beta$ -catenin signaling enhancing cancer progression in NSCLC. 2014. Oncotarget 5(14):5736-49.

Escalera, L., Benvenuto, G., Scalco, E., Zingone, A. and Montresor, M. Ultrastructural features of the benthic dinoflagellate *Ostreopsis cf. ovata* (Dinophyceae). 2014. Protist. 165(3):260-74.

Castells, E., Molinier, J., Benvenuto, G., Bourbousse, C., Zabulon, G., Zalc, A., Cazzaniga, S., Genschik, P., Barneche, F. and Bowler, C. The conserved factor DE-ETIOLATED1 cooperates with CUL4-DDB1<sup>DDB2</sup> to maintain genome integrity upon UV stress. 2011. EMBO J. 30(6):1162-72.

Dubin, M.J., Bowler, C. and Benvenuto, G. Overexpressing tagged proteins in plants using a modified Gateway cloning strategy. 2010. Cold Spring Harb Protoc. 2010(3):pdb.prot5401.

Dubin, M.J., Bowler, C. and Benvenuto, G. A modified Gateway cloning strategy for overexpressing tagged proteins in plants. 2008. Plant Methods 4:3.

Bernhardt, A., Lechner, E., Hano, P., Schade, V., Dieterle, M., Anders, M., Dubin, M.J., Benvenuto, G., Bowler, C., Genschik, P. and Hellmann, H. CUL4 associates with DDB1 and DET1 and its downregulation affects diverse aspects of development in *Arabidopsis thaliana*. 2006. *Plant J.* 47:591-603.

Fritsch, O, Benvenuto, G., Bowler, C., Molinier, J., and Hohn, B. The INO80 protein controls homologous recombination in *Arabidopsis thaliana*. 2004. *Molecular Cell* 16:479-485.

Bowler, C., Benvenuto, G., Laflamme, P., Molino, D., Probst, A.V., Tariq, M., and Paszkowski, J. Chromatin techniques for plant cells. 2004. *Plant J.* 39:776-89.

Benvenuto, G., Formiggini, F., Laflamme, P., Malakhov, M., and Bowler, C. The photomorphogenesis regulator DET1 binds the amino-terminal tail of histone H2B in a nucleosome context. 2002. *Curr. Biol.* 12:1529-34.

Pierantoni, G.M., Fedele M., Pentimalli, F., Benvenuto, G., Pero, R., Viglietto, G., Santoro, M., Chiariotti, L., and Fusco, A. High mobility group I (Y) proteins bind HIPK2, a serine-threonine kinase protein which inhibits cell growth. 2001. *Oncogene.* 20: 6132-41.

Salvatore P, Benvenuto G, Pero R, Lembo F, Bruni CB, Chiariotti L. Galectin-1 gene expression and methylation state in human T leukemia cell lines. 2000. *Int. J. Oncol.* 17(5):1015-8.

Benvenuto, G., Li, S., Brown, S.J., Braverman, R., Vass, W.C., Sampson, J.R., Halley, D.J.J., Wienecke, R., and DeClue, J.E. The tuberous sclerosis-1 (TSC1) gene product hamartin suppresses cell growth and augments the expression of the TSC2 product tuberin by inhibiting its ubiquitination. 2000. *Oncogene* 19: 6306-16.

DeClue, J.E., Heffelfinger, S., Benvenuto, G., Ling, B., Li, S., Rui, W., Vass, W.C., Viskochil, D., and Ratner, N. Epidermal growth factor receptor expression in neurofibromatosis type 1-related tumors and NF1 animal models. 2000. *J. Clin. Invest.* 105: 1233-41.

Fedele, M., Benvenuto, G., Pero, R., Majello, B., Battista, S., Lembo, F., Vollono, E., Day, P.M., Santoro, M., Lania, L., Bruni, C.B., Fusco, A., and Chiariotti, L. A novel member of the BTB/POZ family, PATZ, associates with the RNF4 RING finger protein and acts as a transcriptional repressor. 2000. *J. Biol. Chem.* 275: 7894-7901.

Chiariotti L., Salvatore, P., Benvenuto, G., and Bruni, C.B. Control of galectin genes expression. 1999. *Biochimie* 81: 381-388.

Cindolo L., Benvenuto G., Salvatore P., Pero R., Salvatore G., Mirone V., Prezioso D., Altieri V., Bruni C.B., and Chiariotti L. Galectin-1 and galectin-3 expression in human bladder transitional cell carcinomas. 1999. *Int. J. Cancer.* 84: 39-43.

Chiariotti L., Benvenuto G., Fedele M., Santoro M., Simeone A., Fusco A., and Bruni C.B. Identification and characterization of a novel RING-Finger gene (RNF4) mapping at 4p16.3. 1998. *Genomics* 47: 258-265.

Salvatore P., Benvenuto G., Caporaso M., Bruni C.B., and Chiariotti L. High resolution methylation analysis of the galectin-1 gene promoter region in expressing and nonexpressing tissues. 1998. *FEBS Lett.*, 421:152-158.

Ferrier A.F., Lee M., Anderson W.B., Benvenuto G., Morrison D.K., Lowy D.R. & DeClue J.E. Sequential modification of serine 621 and 624 in the Raf-1 carboxy terminus produces alterations in its electrophoretic mobility. 1997. *J.Biol.Chem.* 272:2136-42.

Benvenuto G., Carpentieri M.L., Salvatore P., Cindolo L., Bruni C.B. & Chiariotti L. Cell-specific transcriptional regulation and reactivation of galectin-1 gene expression are controlled by DNA methylation of the promoter region. 1996. *Mol. Cell. Biol.* 16:2736-2743.

Salvatore P., Contursi C., Benvenuto G., Bruni C.B. & Chiariotti L. Characterization and functional dissection of the galectin-1 gene promoter. 1995. *FEBS Lett.* 373:159-163.

Chiariotti L., Berlingieri M.T., Battaglia C., Benvenuto G., Martelli M.L., Salvatore P., Bruni C.B. & Fusco A.. Expression of galectin-1 in normal human thyroid gland and in differentiated and poorly differentiated thyroid tumors. 1995. *Int. J. Cancer.* 64:171-175.

Chiariotti L., Benvenuto G., Zarrilli R., Rossi E., Salvatore P., Colantuoni V. & Bruni C.B. Activation of the galectin-1 (L-14-I) gene from non-expressing differentiated cells by fusion with undifferentiated and tumorigenic cells. 1994. *Cell Growth & Differ.* 5: 769-775.

Chiariotti L., Benvenuto G., Salvatore P., Veneziani B.M., Villone G., Fusco A., Russo T. & Bruni C.B.. Expression of the soluble lectin L-14-I gene is induced by TSH in thyroid cells and suppressed by retinoic acid in transformed neural cells. 1994. *Biochem. Biophys. Res. Commun.* 199: 540-546.