

Arianna Smerilli



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Current Position: Ph. D. student

Director of Studies: Christophe Brunet

External Supervisor: Alexander Ruban

Program: Open University, XVI cycle

Affiliation:

Section IME, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Rome "La Sapienza", Italy	Bachelor degree	2004-2010	Biological sciences
University of Genoa, Italy	Master degree	2010-2012	Biological monitoring
Department of Earth, Environmental and Life Science (DISTAV), University of Genoa, Italy	Research Fellow	2013-2014	Biomarkers of nanotoxicity

Publications

Journal Papers

Della Torre C., Balbi T., Grassi G., Frenzilli G., Bernardeschi M., Smerilli A., Guidi P., Canesi L., Nigro M., Monaci F., Scarcelli V., Rocco L., Focardi S., Monopoli M., Corsi I. (2015) "Titanium dioxide nanoparticles modulate the toxicological response to cadmium in the gills of *Mytilus galloprovincialis*" Journal of Hazardous Materials. 297:92-100.

Grasselli E., Cortese K., Fabbri R., Smerilli A., Vergani L., Voci A., Gallo G., Canesi L. (2014) "Thyromimetic actions of tetrabromobisphenol A (TBBPA) in steatotic FaO rat hepatoma cells" Chemosphere. 112:511–518.

Balbi T., Smerilli A., Fabbri R., Ciacci C., Montagna M., Grasselli E., Brunelli B., Pojana G., Marcomini M., Gallo G., Canesi L. (2014) "Co-exposure to n-TiO₂ and Cd²⁺ results in interactive effects on biomarker responses but not in increased toxicity in the marine bivalve *M. galloprovincialis*" Science of the Total Environment. 493:355-364.

Canesi L., Frenzilli G., Balbi T., Bernardeschi M., Ciacci C., Corsolini S., Della Torre C., Fabbri R., Faleri C., Focardi S., Guidi P., Kočan A., Marcomini A., Mariottini M., Nigro M., Pozo-Gallardo K., Rocco L., Scarcelli V., Smerilli A., Corsi I. (2013) "Interactive effects of n-TiO₂ and 2,3,7,8-TCDD on the marine bivalve *Mytilus galloprovincialis*" Aquatic Toxicology. 153:53–65.

Balbi T., Fabbri R., Cortese K., Smerilli A., Ciacci C., Grande C., Vezzulli L., Pruzzo C., Canesi L. (2013) "Interactions between *Mytilus galloprovincialis* hemocytes and the bivalve pathogens *Vibrio aestuarianus* 01/032 and *Vibrio splendidus* LGP32" Fish and Shellfish Immunology. 35(6):1906-1915.

Canesi L., Balbi T., Fabbri R., Smerilli A., Pezzati E., Grande C., Stauder M., Vezzulli L., Pruzzo C. (2013) "Interactions between hemolymph components of *Mytilus galloprovincialis* and different *Vibrio* species" Fish and Shellfish Immunology. 34(6):1642.

Abstracts in national and international congresses

Smerilli A., Gallo G., Canesi L. "Comparison between mammalian cell lines as models for the *in vitro* evaluation of nano-oxides toxicity" 1st Italian Society of Nanotoxicology National Meeting June 27th - 28th, 2014 - Naples (Italy)

Canesi L., Balbi T., Smerilli A., Ciacci C., Fabbri R., Gallo G. "Interactive effects of n-TiO₂ with other contaminants on immune and digestive gland function of the marine bivalve *Mytilus*" 24th Society of Environmental Toxicology and Chemistry Meeting. May 11th- 15th, 2014 - Basel (Switzerland)

Della Torre C., Canesi L., Frenzilli G., Rocco L., Pojana G., Bocci E., Balbi T., Bernardeschi M., Faleri C., Guidi P., Mottola F., Santonastasio M., Scarcelli V., Smerilli A., Stingo V., Marcomini A., Nigro M., Focardi S., Corsi I. "Titanium dioxide nanoparticles modulate the response to Cadmium in the gills of marine mussel *Mytilus galloprovincialis*" 24th Society of Environmental Toxicology and Chemistry Meeting. May 11th - 15th, 2014 - Basel (Switzerland)

- Balbi T., Smerilli A., Fabbri R., Ciacci C., Grasselli E., Brunelli A., Pojana G., Marcomini A., Gallo G., Canesi L. "Interactive effects of n-TiO₂ and Cd²⁺ in marine invertebrates" 7th International Nanotoxicology Congress. April 23th - 26th, 2014 - Antalya (Turkey)
- Balbi T., Smerilli A., Fabbri R., Ciacci C., Montagna M., Gallo G., Canesi L. "Interactive effects of nanoparticles with other environmental pollutants on immune function and larval development of *Mytilus galloprovincialis*" 15th Italian Association of Developmental and Comparative Immunobiology Meeting. February 12th - 14th, 2014 - Ferrara (Italy)
- Grasselli E., Voci A., Vergani L., Fabbri R., Smerilli A., Cortese K., Gallo G., Canesi L. "Thyromimetic effects of Tetrabromobisphenol A (TBBPA) on lipid metabolism in steatotic FaO rat hepatoma cells" 64th Italian Society of Physiology National Meeting. September 18th - 20th 2013- Portonovo (Italy)
- Canesi L., Balbi T., Fabbri R., Smerilli A., Pezzati E., Grande C., Stauder M., Vezzulli L., Pruzzo C. "Interactions between hemolymph components of *Mytilus galloprovincialis* and different *Vibrio* species" 1st International Conference of Fish and Shellfish Immunology. June 25th- 28th, 2013 - Vigo (Spain)
- Balbi T., Smerilli A., Fabbri R., Ciacci C., Gallo G., Canesi L. "Interactive effects of n-TiO₂ and other contaminants (Cd²⁺ and TCDD) on *Mytilus galloprovincialis*" 17th Pollutant Responses In Marine Organisms Congress. May 5th - 8th, 2013 - Faro (Portugal)
- Ciacci C., Balbi T., Fabbri R., Smerilli A., Pezzati E., Grande C., Vezzulli L., Pruzzo C., Canesi L. "Differential interactions between *Mytilus* hemolymph components and *Vibrio aestuarianus* and *Vibrio splendidus*: *in vitro* and *in vivo* studies" 14th Italian Association of Developmental and Comparative Immunobiology Meeting. February 14th- 16th, 2013 - Palermo (Italy)

Teaching activity

School of Physiology and Biophysics
Teaching certificate - Environmental Physiology (Lectures and Laboratories)
June 17th – 20th 2013 - Alessandria (Italy)

Other activities

Participation in the Marine Ecotox Focus Group within the European NanoSafety Cluster.
<http://www.nanosafetycluster.eu/working-groups/2-hazard-wg/marine-ecotox.html>
See: Ilaria Corsi. Marine nano-ecotoxicology - first evidence of a Trojan horse effect of titanium dioxide nanoparticles towards dioxin in a marine organism. NanoSafety cluster Newsletter, Issue 2, January 2014