



Curriculum Vitae

Personal information

First name(s) / Surname(s) **Stefania Squadrone**
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 Nationality Italian

Work experience

Dates	2020
Occupation or position held	In charge of Inorganic Contaminants laboratory, Chemistry Dept.
Main activities and responsibilities	Food and feed official chemical controls for trace elements; analysis, method validation, staff management, research projects design and coordination, scientific writing.
Name and address of employer	Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta – Via Bologna 148, 10154 Turin, Italy - Veterinary Public Health, Chemistry Dept.
Dates	2006 -2020
Occupation or position held	Assistant Biologist
Main activities and responsibilities	Food and feed official chemical controls for trace elements; analysis, method validation, staff management, research projects design and coordination, scientific writing.
Name and address of employer	Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta – Via Bologna 148, 10154 Turin, Italy - Veterinary Public Health
Dates	2006 – 2001
Occupation or position held	Assistant Biologist
Main activities and responsibilities	Official controls for GMO and veterinary diseases by molecular biology techniques; analysis, method validation, staff management, involvement in research projects, scientific writing.
Name and address of employer	Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta – Via Bologna 148, 10154 Turin, Italy - Veterinary Public Health
Dates	2001 – 1999
Occupation or position held	Researcher Biologist
Main activities and responsibilities	Research activity in molecular biology
Name and address of employer	Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta – Via Bologna 148, 10154 Turin, Italy - Veterinary Public Health

Dates	1999 - 1998				
Occupation or position held	Researcher Biologist				
Main activities and responsibilities	Research activity in immunology and gene therapy				
Name and address of employer	TIGET, Telethon Institute for Gene Therapy; Milano, Italy				
Dates	1998 - 1997				
Occupation or position held	Researcher Biologist (scholarship)				
Main activities and responsibilities	Research activity in immunology				
Name and address of employer	Children Hospital, Regina Margherita, Turin, Italy				
Dates	1997 - 1996				
Occupation or position held	Researcher Biologist				
Main activities and responsibilities	Research activity in screening techniques for detection of antibiotics in milk				
Name and address of employer	Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta – Via Bologna 148, 10154 Turin, Italy - Veterinary Public Health				
Dates	1996 - 1994				
Occupation or position held	Training Biologist				
Main activities and responsibilities	Training in microbiological analysis (food and water)				
Name and address of employer	Environmental Regional Agency, Turin, Italy.				
Education and training					
Dates	1988 -1994				
Title of qualification awarded	Specialization Degree in Microbiology and Virology - Turin University, Faculty of Medicine				
Level in national or international classification	70/70				
Dates	1994				
Title of qualification awarded	Admitted to the Register of Biologists - Turin University, Faculty of Science				
Dates	1993				
Title of qualification awarded	Master in Environmental Engineering- Turin Politecnico University				
Dates	1991-1988				
Title of qualification awarded	Master cum laude in Biology, Turin University, Faculty of Mathematical and Biological Sciences.				
Personal skills and competences					
Mother tongue(s)	Italian				
Other language(s)					
Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	

English	B2	C1	B1	B1	C1
French	A1	A1	A1	A1	A1
	(*) <u>Common European Framework of Reference for Languages</u>				
Technical skills and competences	The scientific interests cover the area of heavy metals and contaminants. Researches mainly focused on development of innovative analytical methods to applying in the food and feed control area. Moreover, the trace elements occurrence in marine, freshwater and terrestrial ecosystems is investigated by the use of living organisms as bioindicators of environmental health.				
Additional Information	<p>Other Qualifications (since 1995):</p> <ul style="list-style-type: none"> - <u>participation in courses and seminars</u> in chromatographic techniques, in separation and extraction methods for foodstuff and feed, in Laboratory Health and Safety, in spectroscopic techniques, in Quality Control (EN 45001 and ISO/IEC 17025), in molecular biology, in environmental safety. - <u>Chief Scientist and Coordinator of research projects</u> financed by the Italian Health Ministry and by the Piedmont Region. -<u>Reviewer for</u>: Chemosphere, Environmental Pollution, Science of The Total Environment, Environmental Science and Pollution Research, Food Analytical Methods, Environmental Research, J Hazardous Materials, Environmental Technology, Ecotoxicology and Environmental Safety; Environmental Monitoring and Assessment, Bulletin of Environmental Contamination and Toxicology, Methods in Ecology and Evolution. -<u>Coauthor</u> more than 200 scientific articles, poster, presentation. <p><u>International Publications (last five years)</u></p> <p>Squadrone, S., P. Brizio, M. C. Abete, F. Busico, ·B. Neri (2021). Polycyclic Aromatic Hydrocarbons and Mercury in Smoked Catfish: A Case Study. <i>Water Air Soil Pollut</i> (2021) 232:252</p> <p>Squadrone, S., M. C. Abete, O. Miedico, ·S. Gavinelli, B. Neri, F. Busico, S. Berretta, L. Carosielli, G. Carrabs, A.E. Chiaravalle (2021). Poaching of endangered species in Mediterranean Sea: <i>Alopias vulpinus</i>. <i>Mar Poll Bull</i> 168(1)</p> <p>Battistini R., Listorti V, Squadrone S, Pederiva S, Abete MC, Mua R, Ciccotelli V, Suffredini, Maurella C, Baioni E, Orlandi M, Ercolini C, Serracca L (2021) Occurrence and persistence of enteric viruses, arsenic and biotoxins in Pacific oysters farmed in an Italian production site. . <i>Mar Poll Bull</i> 161(111843)</p> <p>Beltramo C, Cerutti F, Brusa F, Mogliotti P, Garrone A, Squadrone S, Acutis P L, Peletto Simone (2021) Exploring the botanical composition of polyfloral and monofloral honeys through DNA metabarcoding <i>Food Control</i> 128, 108175</p> <p>G. Esposito, A.G. Mudadu, MC Abete, S. Pederiva, A. Griglione, C. Stella, S. Ortu, A. Bazzoni, D. Meloni, S. Squadrone (2021). Seasonal accumulation of trace elements in native Mediterranean mussels (<i>Mytilus galloprovincialis</i> Lamarck,</p>				

1819) collected in the Calich Lagoon (Sardinia, Italy)

Squadrone, S., Pederiva S. Bezzo, T, Mussat Sartor R, Battuello M., Nurra N, Griglione A, Brizio P, Abete MC. (2021) Microplastics as vectors of metals contamination in Mediterranean Sea. *Environ Sci Pollut Res* doi: 10.1007/s11356-021-13662-7

Squadrone, S., (2020). Water environments: metal-tolerant and antibiotic-resistant bacteria. *Environ Monit Assess* 192: 238

Squadrone, S., Crescio, I., Brizio, D. Dutto, R. Bocca, C. Stella, G. Colombero, M. Rizzi, S, Pederiva, F. Ingravalle, M.C: Abete **(2020).** Nickel Occurrence in a Livestock Food Chain (Northwestern Italy). *Water Air Soil Pollut* 231,265.

Squadrone S, Brizio P, Stella C, Pederiva S, Brusa F, Mogliotti P, Garrone A, Abete MC, **(2020).** Trace and rare earth elements in monofloral and multifloral honeys from Northwestern Italy; a first attempt of characterization by a multi-elemental profile, *Journal of Trace Elements in Medicine and Biology*, 61:126556.

Squadrone, S., P. Brizio, C. Stella, M. Mantia, S. Pederiva, F. Brusa, P. Mogliotti, A. Garrone, M. C. Abete **(2020).** Trace elements and rare earth elements in honeys from the Balkans, Kazakhstan, Italy, South America and Tanzania. *Environ Sci Pollut Res.* 27(1).

Squadrone, S, P. Brizio, M. C. Abete, A. Brusco **(2020).** Trace elements profile in the blood of Huntington' disease patients. *Journal of Trace Elements in Medicine and Biology* 57: 18–20.

P. Pastorino, P. Brizio, M.C. Abete, M. Bertoli, A.G. Oss Noser, G. Piazza, M. Prearo, A.C. Elia, E. Pizzul, **S. Squadrone, (2020).** Macrobenthic invertebrates as tracers of rare earth elements in freshwater watercourses. *Science of the Total Environment* 698: 134-282.

S. Squadrone, P. Brizio, C. Stella, M. Mantia, L. Favaro, B. Biancani, C. Da Rugna, S. Gridelli, M. C. Abete **(2020).** Differential bioaccumulation of trace elements and rare earth elements in muscle, kidneys and liver of the invasive Indo-Pacific Lionfish (*Pterois* spp.) from Cuba. *Biological trace elements research*

S. Squadrone, P. Brizio, M. C. Abete, A. Brusco **(2020).** Trace elements profile in the blood of Huntington' disease patients. *Journal of Trace Elements in Medicine and Biology* 57: 18–20

P. Pastorino, P. Brizio, M.C. Abete, M. Bertoli, A.G. Oss Noser, G. Piazza, M. Prearo, A.C. Elia, E. Pizzul, **S. Squadrone, (2020).** Macrobenthic invertebrates as tracers of rare earth elements in freshwater watercourses. *Science of the Total Environment* 698: 134-282

A. Ruo Redda, O. Abollino, M. Malandrino, **S. Squadrone,** M. C. Abete, S. Berto, R. Toniolo, F. Durbiano, A. Giacomino **(2019).** A Portable Setup for the Voltammetric Determination of Total Mercury in Fish with Solid and Nanostructured Gold Electrodes. *Molecules* 24: 1910

S. Squadrone, P. Brizio, L. Favaro, D. Florio, C. Da Rugna, S. Gridelli, M. C. Abete (2019). Feathers of Humboldt penguin are suitable bioindicators of Rare Earth Elements. *Science of The Total Environment* 678: 627–631.

S. Squadrone, P. Brizio, M. Mantia, C. Stella, M. Battuello, N. Nurra, R. Mussat Sartor, R. Orusa, S. Robetto, F. Brusa, P. Mogliotti, A. Garrone, M.C. Abete (2019). Rare earth elements in marine and terrestrial matrices of Northwestern Italy: Implications for food safety and human health. *Science of The Total Environment* 660:1383-1391.

S. Squadrone, P. Brizio, L. Favaro, G. Todino, D. Florio, C. Da Rugna, M. C. Abete (2019). Humboldt penguins' feathers as bioindicators of metal exposure. *Science of The Total Environment* 650:1734-1739

R. Juncos, M. Arcagni, **S. Squadrone**, A. Rizzo, M. Arribère, J.P. Barriga, M.A. Battini, L.M. Campbell, P. Brizio, M.C. Abete, S. Ribeiro Guevara (2019). Interspecific differences in the bioaccumulation of arsenic of three Patagonian top predator fish: Organ distribution and arsenic speciation *Ecotoxicology and Environmental Safety*, 168: 431-442.

G. Esposito, D. Meloni, M. C. Abete, G. Colombero, M. Mantia, P. Pastorino, M. Prearo, A. Pais, E. Antuofermo, **S. Squadrone** (2018). The bivalve *Ruditapes decussatus*: A biomonitor of trace elements pollution in Sardinian coastal lagoons (Italy). *Environmental Pollution* 242:1720-1728.

P. Pastorino, E. Pizzul, M. Bertoli, S. Perilli, P. Brizio, G. Salvi, Esposito G, M.C. Abete M. Prearo, A.C. Elia, D. Mugetti, **S. Squadrone**, (2019). Macrobenthic invertebrates as bioindicators of trace elements in high-mountain lakes. *Environmental Science and Pollution Research*.

S. Squadrone, C. Stella, P. Brizio, M. C. Abete (2018). A Baseline Study of the Occurrence of Rare Earth Elements in Animal Feed. *Water Air Soil Pollut* 229:190.

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S. Squadrone, M.C. Abete, P. Brizio, D. Pessani, L. Favaro (2018). Metals in Feathers of African Penguins (*Spheniscus demersus*): Considerations for the Welfare and Management of Seabirds Under Human Care. *Bulletin of Environmental Contamination and Toxicology*, 100 (4): 465–471.

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A. Benedetto, C. Bocca, P. Brizio, S. Cannito, M. C. Abete, **S. Squadrone** (2018). Effects of the rare elements lanthanum and cerium on the growth of colorectal and hepatic cancer cell lines. *Toxicology in Vitro* 46:9-18.

S. Squadrone, P. Brizio, M. Battuello, N. Nurra, R. Mussat Sartor, A. Riva, M. Staiti, A. Benedetto, D. Pessani, M. C. Abete (2018). Trace metal occurrence in Mediterranean seaweeds. *Environmental Science and Pollution Research April 2018, Volume 25, Issue 10, pp 9708–9721*

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A. Giacomino, A. Ruo Redda, **S. Squadrone**, M. Rizzi, M. C. Abete, C. La Gioia, R. Toniolo, O. Abollino, M. Malandrino (2017). Anodic stripping voltammetry with gold electrodes as an alternative method for the routine determination of mercury in fish. Comparison with spectroscopic approaches. *Food Chemistry*, 221: 737-745

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E.A.V. Burioli, **S. Squadrone**, C. Stella, C. Foglini, M.C. Abete, M. Prearo (2017). Trace element occurrence in the Pacific oyster *Crassostrea gigas* from coastal marine ecosystems in Italy. 0.1016/j.chemosphere.2017.08.102

S. Squadrone, P. Brizio, M. Battuello, N. Nurra, R. Mussat Sartor, A. Benedetto, D. Pessani, M.C. Abete (2017). A first report of rare earth elements in northwestern Mediterranean seaweeds. *Marine Pollution Bulletin* 122 2017;236-242.

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