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Curriculum Vitae	
Personal information	
First name(s) / Surname(s)	**Stefania Squadrone**
Telephone(s)	+39 011 2686415
E-mail	stefania.squadrone@izsto.it
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
	(*) Common European Framework of Reference for Languages				
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	Other Qualifications (since 1995): - participation in courses and seminars 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. - Chief Scientist and Coordinator of research projects financed by the Italian Health Ministry and by the Piedmont Region. -Reviewer for: 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. -Coauthor more than 200 scientific articles, poster, presentation. International Publications (**last five years**) **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.				

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	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.* **S. Squadrone**, N. Nurra, M. Battuello, R. Mussat Sartor, C. Stella, P. Brizio, M. Mantia, D. Pessani, M. C. Abete. Trace elements, rare earth elements and inorganic arsenic in seaweeds from Giglio Island (Thyrrenian Sea) after the Costa Concordia shipwreck and removal **(2018).** *Marine Pollution Bulletin, 133: 88-95* **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.* **S. Squadrone**, P. Brizio, C. Mancini, M. C. Abete, A. Brusco **(2018).** Altered homeostasis of trace elements in the blood of SCA2 patients. *Journal of Trace Elements in Medicine and Biology 47* **S. Squadrone**, M. C. Abete, M. Rizzi, G. Monaco, L. Favaro **(2018).** Bioaccumulation of Trace and Non-trace Elements in Blood and Fibers of Alpacas (*Vicugna pacos*) that Graze in Italian Pastures. *Water Air Soil Pollut. 229:41* 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* M. Battuello, N. Nurra, P. Brizio, R. Mussat Sartor, D. Pessani, C. Stella, M. C. Abete, **S. Squadrone (2018).** The isopod *Eurydice spinigera* and the chaetognath *Flaccisagitta enflata*: How habitat affects bioaccumulation of metals in predaceous marine invertebrates. *Ecological Indicators 84 (2018) 152–16* M. Battuello, R. Mussat Sartor, P. Brizio, N. Nurra, D. Pessani, M.C. Abete, **S. Squadrone (2017).** The influence of feeding

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	Ciccotelli V., Abete M.C., **Squadrone S., (2016**). PFOS and PFOA in cereals and fish: Development and validation of a high performance liquid chromatography-tandem mass spectrometry method**.** *Food Control, 59: 46-52* **Stefania Squadrone**, Maria Cesarina Abete, Paola Brizio, Gabriella Monaco, Silvia Colussi, Cristina Biolatti, Paola Modesto, Pier Luigi Acutis, Daniela Pessani, Livio Favaro **(2016).** Sex- and age-related variation in metal content of penguin feathers. *Ecotoxicology 25(2):431-8* **S. Squadrone**, P. Brizio, R. Nespoli, C. Stella, M.C. Abete **(2015).** Human dietary exposure and levels of polychlorinated dibenzo-pdioxins (PCDDs), polychlorinated dibenzofurans (PCDFs), dioxin-like polychlorinated biphenyls (DL-PCBs) and non-dioxin-like polychlorinated biphenyls (NDL-PCBs) in free-range eggs close to a secondary aluminum smelter, Northern Italy. *Environmental Pollution, Volume 206: 429-436* **Squadrone S**., Brizio P., Mancini C., Pozzi E., Cavalieri S., Abete M.C., Brusco A., **(2015)**. Blood metal levels and related antioxidant enzyme activities in patients with ataxia telangiectasia. *Neurobiology of Disease 81: 162-167.* **Stefania Squadrone**, Cecilia Mancini, Alfredo Brusco **(2015).** Down regulation of antioxidant enzymes in SCA28. *European Journal of Human Genetics 6/2015* **Squadrone S,** Ciccotelli V, Prearo M, Favaro L, Scanzio T, Foglini C, Abete MC. **(2015).** Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA): emerging contaminants of increasing concern in fish from Lake Varese, Italy. *Environmental Monitoring and Assessment 187(7):4686* Benedetto A, Guaraldo P, Manzini L, Spalenza V, Nebbia C, Cappa C, **S. Squadrone,** Abete MC **(2015).** Comparison of polychlorinated dibenzo-dioxin/furans and dioxin like PCBs profiles in sheep and bovine liver sampled in Piedmont Region. International Congress of EAVPT 2015, Nantes (France), July 19-22, 2015, Abstract pubblicato su *J. of Veterinary Pharmacology and Therapeutics, vol. 38, Suppl.1* **S. Squadrone,** P. Brizio, E. Chiaravalle, M.C. Abete **(2015).** Sperm whales (*Physeter macrocephalus)* found stranded along the Adriatic coast (Southern Italy, Mediterranean Sea) as bioindicators of essential and non-essential trace elements in the environment. *Ecological Indicators, 58:418-425* **S. Squadrone,** E. Chiaravalle, S. Gavinelli, G. Monaco, M. Rizzi, M.C. Abete **(2015).** Analysis of mercury and methylmercury concentrations, and selenium:mercury molar ratios for a

	toxicological assessment of sperm whales *(Physeter macrocephalus)* in the most recent stranding event along the Adriatic coast (Southern Italy, Mediterranean Sea). *Chemosphere, 138:633-641* **Stefania Squadrone**, Daniela Marchis, Andrea Loria, Giuseppina Amato, Gianluca Ferro, Maria Cesarina Abete (**2015**). Detection of banned antibacterial growth promoter in animal feed by enzyme-linked immunosorbent assay: Method validation according to the Commission Decision 2002/657/EC criteria. *Food Control 47:66-70* **Stefania Squadrone**, Alessandro Benedetto, Paola Brizio, Marino Prearo, Maria Cesarina Abete (**2015)** Mercury and selenium in European catfish (Silurus glanis) from Northern Italian Rivers: Can molar ratio be a predictive factor for mercury toxicity in a top predator? *Chemosphere 119:24-30* **Stefania Squadrone**, Walter Mignone, Maria Cesarina Abete, Livio Favaro, Tommaso Scanzio, Claudio Foglini, Barbara Vivaldi, Marino Prearo, (**2015)**. Non-dioxin-like polychlorinated biphenyls (NDL-PCBs) in eel, trout and barbel from the River Roya, Northern Italy *Food Chemistry 175:10-15.*