Curriculum Vitae

Last name, First name: Vighi Marco

Gender: Male

Nationality: Italian

Overall Scientific Expertise:

Main fields of research:

- Eutrophication of marine and fresh waters; modelling the relationships between nutrient loads of and eutrophication; effects of eutrophication on water quality.
- Effects of micro pollutants on aquatic and terrestrial ecosystems; development of Quantitative Structure-Activity Relationships (QSAR) for organic chemicals; combined effect of mixtures of chemicals.
- Development of ecologically-based approaches for the assessment of effects of multiple stress factors on structure and functions of complex ecosystem.
- Environmental distribution and fate of contaminants; application and experimental validation of fugacity based approaches at different scales; long range transport of persistent organic pollutants (POPs and PBTs)
- Ecological risk assessment at local, regional and global scale; development of tools for mapping ecotoxicological risk using GIS.

Professional Experience

[Starting with your present occupation, list in reverse chronological order each activity in which you have been engaged. Please copy and paste more rows if needed.]

Years	Title of position	Employer – name and location	Areas of professional
employed			specialisation*
from – to			-
	Consultant		
1/12/2020 to	(Investigador	IMDEA Water Institute, Alcala' de	Freshwater ecology and
now	Vinculado)	Henares (Madrid), Spain	ecotoxicology
1/12/2015 to	Principal	IMDEA Water Institute, Alcala' de	Freshwater ecology and
1/12/2020	investigator	Henares (Madrid), Spain	ecotoxicology
1/3/1998	Full professor	University of Milano Bicocca, Italy	General and applied ecology.
to			Aquatic and terrestrial
30/10/2015			ecotoxicology
	Associate	University of Milano, Italy	General and applied ecology.
1/3/1983 to	professor		Aquatic and terrestrial
1/3/1998			ecotoxicology
	Research	Institute of Water Research – Italian	Freshwater ecology and
1/1/1971 To	assistant	National Council of Research –	ecotoxicology
1/3/1983		Brugherio (Milano), Italy	

Educational Background

[Starting with the most recent, please provide the details of your post-secondary education and/or

professional training (e.g. university or its equivalent, postgraduate, postdoctoral). Please copy and paste more rows if needed.]

Year		Educational Institution –	Areas of educational
	Degree awarded	name and location	specialisation*
1969	University degree (corresponding to		Biology (ecology)
	master degree)	University of Milano - Italy	

Memberships in Scientific Advisory Bodies/Committees/Panels (if any):

From 1991 to 1997: Scientific Advisory Committee on Toxicology and Ecotoxicology (CSTE) of the European Commission (DG XXIV).

From 1997 to 2004: Scientific Advisory Committee on Toxicology, Ecotoxicology and the Environment (CSTEE) of the European Commission (DG SANCO).

From 2004 to 2013: Scientific Committee on Health and Environmental Risk (SCHER) of the European Commission (DG SANCO).

1998-99: Working Group on Genetically Modified Organisms, Scientific Committee on Plants (SCP) of the European Commission (DG SANCO).

2002-03: member of working groups on undesirable substances and feed additives within the Scientific Committee on Animal Nutrition (SCAN) of the European Commission (DG SANCO).

2003-2005: was member of the External Advisory Panel of HERA (Human and Environmental Risk Assessment).

Consultant to the 4th (Geneva, 2008) and the 7th (Geneva, 2011) meetings of the UNPD/POPRC (Persistent Organic Pollutants Review Committee). The POPRC is the Committee responsible for the implementation of the Stockholm Convention.

Memberships in Learned Societies (if any):

Society of Environmental Toxicology and Chemistry (SETAC) International Society of Limnology (SIL) Italian Society of Ecology (SIE)

Memberships in Editorial Boards (if any):

Integrated Environmental Assessment and Management Toxicological and Environmental Chemistry Ecotoxicology and Environmental Safety

List of Publications:

- About 190 peer-reviewed articles in international journals.
- 4 books
- More than 40 book chapters
- Several technical reports and other items of "grey literature".

7 selected articles:

1. Calamari D., Bacci E., Focardi S., Gaggi C., Morosini M., Vighi M. (1991): Role of plant

biomass in the global environmental partitioning of chlorinated hydrocarbons. *Environ. Sci. Technol, 25,* 1489-1495.

- Vighi M., Altenburger R., Arrhenius A., Backhaus T., Bodeker W., Blanck H., Consolaro F., Faust M., Finizio A., Froener K., Gramatica P., Grimme H., Gronwall F., Hamer V., Scholze M., Walter H. (2003) Water Quality Objectives for mixtures of toxic chemicals: problems and perspectives. *Ecotoxicology and Environmental Safety*, 53, 139-150.
- 3. Vighi M, Finizio A, Villa S (2006) The evolution of the Environmental Quality Concept: from the US EPA Red Book to the European Water Framework Directive. *Environmental Sciences and Pollution Research*, 13, 9-14
- 4. A. Ippolito, S. Sala, J.H. Faber, M. Vighi (2010) Ecological vulnerability analysis: A river basin case study. *Science of the Total Environment* 408, 3880-3890
- 5. Villa S, Migliorati S, Monti GS, Holoubeck I, Vighi M (2017). Risk of POP mixture on the Arctic food chain. *Environmental Toxicology and Chemistry*, 36: 1181–1192
- 6. Vighi M, Rico A (2018). The Concept of Resilience in Ecological Risk Assessment: Scientific and Regulatory Issues. *Integrated Environmental Assessment and Management*, 14: 581-585
- Vighi M, Rosal R, Bayo J, Fernández-Piñas F, Jesús Gago J, Gómez M, Hernández-Borges J, Herrera A, Landaburu J, Muniategui-Lorenzo S, Muñoz A, Rico A, Romera-Castillo C, Viñas L (2021). Micro and nano-plastics in the environment: Research priorities for the near future. *Reviews of Environmental Contamination and Toxicology*, 257: 163-218.