

## PERSONAL INFORMATION

## Maurizio Gualtieri

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## WORK EXPERIENCE

13 December 2021 - Present

## Temporary Researcher

University of Milano-Bicocca, Milan (Italy)

Research activities and teaching activity at the department of Environmental Sciences and Earth. Evaluation of the potential impacts of airborne pollutants on human health and environment. Communication of obtained results to scientific and public bodies, preparation and submission of project and grant reports. Drafting of reports, publications and administrative documents, preparation and submission of project and grant reports.

1 September 2016 – 12 December 2021

## Researcher

ENEA - Italian National agency for new technologies, Energy and sustainable economic development, Rome (Italy) SSPT-MET-INAT (Bologna, Italy)

Biological impact of air pollutants in lung cells by innovative approaches. Chemical characterization of air pollution by state of the art sampling approaches and off-line analyses and by high temporal resolution monitors for organic species and ions. Evaluation of the potential impacts of airborne pollutants on human health and environment. Communication of obtained results to scientific and public bodies, preparation and submission of project and grant reports.

1 September 2015 – 31 August 2016

## Professor in Toxicology

University of Littoral Côte D'Opale (ULCO) - Unit of Chemistry and Interaction with living organisms (France).

Head of the Laboratory of Chemistry and Toxicology of atmospheric emissions

Course of Cell biology and Toxicology for students enrolled in the degree of Chemical Sciences and of Environmental Sciences.

Research: Evaluation of biological alteration in *in vitro* models induced by indoor and outdoor air pollutants (particulate matter, PM2.5, UFP and VOCs); inflammation, genotoxicity mRNA and epigenetic modification of exposed cells. Coordination personnel of activities, drafting of research projects, scientific and administrative reports and publications.

17 December 2012 – 31 August 2015

## Researcher

ENEA - Italian National agency for new technologies, Energy and sustainable economic development, Rome (Italy) Unit of Saluggia, (Saluggia – VC, Italy)

Analysis of biomass burning emissions effects on biological *in vitro* models. Evaluation of the sustainability of biomass fired heaters and evaluation of particulate and gaseous emissions from biomass-fired boilers. Development of technologies for the particulate and gaseous emission abatement. Assessment of the sustainability energy/heat chain. Communication of obtained results to scientific and general public, drafting of reports, publications and documents (scientific and administrative).

01 February 2012 – 16 December 2012

## Post-doc

University of Milano-Bicocca, Milan (Italy)

Research activities, project title "Human co-culture: *in vitro* air-blood barrier preparation in biosafety level 2 lab and analysis of UFP and NPs". Analysis of the biological impacts of environmental ultrafine particles (UFP) and of engineered nanoparticles (NP) on human lung cell lines. Supervision of Ph.D. students and master degree students. Drafting of reports, publications and administrative documents.

10 January 2011 – 09 January  
2012

### High expertise Technician

University of Milano-Bicocca, Milan (Italy)

Supervision of the technical activities and support to the research of the bio-safety level 2 cell laboratory. Cell line cultures maintenance and treatment. Biochemical assays and immunocytochemistry analyses. Supervision of Ph.D. students and master degree students.

01 January 2010 – 31 December  
2010

### Post-doc

University of Milano-Bicocca, Milan (Italy)

Research activities, project title "Molecular markers of damage in A549 cell line exposed to particulate matter". Sampling of environmental particulate matter and evaluation of its biological effects of human lung epithelial cell lines. Supervision of Ph.D. students and master degree students.

### Assistant Professor

University of Milano-Bicocca, Milan (Italy)

Temporary position (May 2010 – June 2010) as Assistant Professor for the teaching course of "Laboratory of applied cell biology". Teaching activities and laboratory application of cell biology techniques for master degree students in Biology and Environmental Sciences.

07 January 2009 – 31 December  
2009

### Post-doc

Norwegian Institute of Public Health, Division of Environmental Medicine, Dept. of Air Pollution and Noise, Oslo (Norway)

Research activity in Cell Biology and Nanotoxicology. Research project title "Nano-sized versus larger particles: Does extremely small size introduce unique mechanisms for particle-induced toxicity?". Setup of exposure condition to nanoparticles, evaluation of early marker of response (qPCR) and pro-inflammatory potential. Communication of results to the funding Norwegian Ministry of Research.

01 January 2006 – 31 December  
2008

### Post-doc

University of Milano-Bicocca, Milan (Italy)

Research activities, project title "Molecular markers of damage in A549 cell line exposed to particulate matter". Sampling of environmental particulate matter and evaluation of its biological effects of human lung epithelial cell lines. Supervision of master degree students.

### Assistant Professor

University of Milano-Bicocca, Milan (Italy)

Temporary position (May 2008 – June 2008, April 2007 – June 2007 and April 2006 – June 2006) as Assistant Professor for the teaching course of "Laboratory of applied cell biology". Teaching activities and laboratory application of cell biology techniques for master degree students in Biology and Environmental Sciences.

## EDUCATION AND TRAINING

01 November 2002 – 31 October  
2005

### Ph.D. in Environmental Sciences

University of Milano-Bicocca, Milan (Italy)

Research project title "Evaluation of cell damage in pulmonary cell lines exposed to particulate matter" (Cell biology, biochemistry, transmission electron microscopy, environmental safety)

01 October 1997 – 12 March  
2002

### Master degree in Environmental Sciences

University of Milano-Bicocca, Milan (Italy). Score: 110/110 laude

Dissertation thesis "Characterization of tire debris components with potential impact on human health". Main subjects: Physics, Inorganic and Organic Chemistry, Biology and Applied Ecology.

## PERSONAL SKILLS

Mother tongue(s)

Italian

## Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
[Common European Framework of Reference for Languages](#)

## Awards, Patents and Membership

**Member of the Scientific Committee** for the EASA grant "Cabin air quality assessment of long-term effects of contaminants [EASA.2020.HVP.17] – Support for the evaluation of proposals and implementation of the contract" – 2021/2023 Expert contract NR. - 500011546

**Member of the Scientific Committee** to support the European Commission (DG-Move) and EASA for the evaluation of the implementation of the contract "FACTS (MOVE/B3/SER/2016-363/SI2.748114)" – 2019/2020

**Guest Editor** for the Special Issue "Inhalation Toxicology and Biological Response" per International Journal of Molecular Science Open Access Journal edited by MDPI

**Member of the Coordination Panel** for the collaboration project between ENEA and the Ministry for Ecological Transition to evaluate emissions from biomass burning ovens.

**Supervisor** for master degree student, Ph.D. students and Post-Doc personnel.

**National Scientific Qualification** to function as **Associate Professor (BIO/06)** in Italian Universities released by the Italian Ministry of Education, University and Research (MIUR) August 06/2018 - August 06/2024

**Travel grant** for young researcher from Lombardy Region "Sovvenzione Globale INGENIO" December, 19, 2006 as **Visiting scientist** at the Norwegian Institute of Public Health, Division of Environmental Medicine, Dept. of Air Pollution and Noise, Oslo – Norway

**Visiting Researcher** at the Unit of Environmental Chemistry and Interaction with living organisms at Université du Littoral-Cote D'opale (Dunkirk, Fr) March 2015.

**Co-inventor of the Patent** n. MI2012A001759, titled "Method and device for the detection and rapid quantification of atmospheric particulates in a sample and/or of the oxidative power".

## Bibliometric information

H-Index: 30 (Scopus)  
Total citations: 2629 (Scopus)

H Index: 31 (Google Scholar 2004 – 2021) / 26 (Google Scholar 2016 – 2021)  
i10-index : 47 (Google Scholar 2004 – 2021) / 41 (Google Scholar 2016 – 2021)  
Total Citations: 2989 (Google Scholar 2004 – 2021) / 2030 (Google Scholar 2016 – 2021)

## Additional information

**Scientific responsible** of research and collaboration projects

**Reviewer for H2020** "SC1-BHC-36-2020: Micro- and nano-plastics in our environment: Understanding exposures and impacts on human health" call.

**Reviewer** for International Journals: such as, but not limited to, Toxicology in Vitro, Environmental Research, Chemosphere, Environmental Pollution, Toxicology Letters, Plos One, Cytokine, Mutation Research, Nanotoxicology and Toxicological Sciences.

## ADDITIONAL INFORMATION

### Publications and meetings

Authors of 56 papers on peer reviewed international journals, authors of four chapter in scientific books, speaker at several nation and international conferences

Appendix reports the list of publications, oral presentation to meetings, congresses and courses.

I authorize the use of personal data reported in this Curriculum vitae according art. 13 GDPR 679/16



Milan, 22/02/2022