

## PERSONAL INFORMATION

## Maurizio Gualtieri

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## WORK EXPERIENCE

17 December 2012 – Present

**Research**

ENEA - Italian National agency for new technologies, Energy and sustainable economic development, Roma (Italy)

Evaluation of the sustainability of the emissions from biomass-fired boilers. Development of technologies for emissions abatement. Assessment of the life cycle of the wood to energy/heat chain.

01 February 2012 – 16 December  
2012

**Post-doc**

University of Milano-Bicocca, Milano (Italy)

Research activities, project title "Human co-culture: in vitro blood air 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.

10 January 2011 – 09 January  
2012

**High expertise Technician**

University of Milano-Bicocca, Milano (Italy)

Supervision of the technical activities and support to the research of the bio-safety level 2 cell laboratory.

01 January 2010 – 31 December  
2010

**Post-doc**

University of Milano-Bicocca, Milano (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.

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?".

01 January 2006 – 31 December  
2008

**Post-doc**

University of Milano-Bicocca, Milano (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.

EDUCATION AND TRAINING

01 November 2002 – 31 October 2005

**Ph.D. in Environmental Sciences**

University of Milano-Bicocca, Milano (Italy)

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

01 October 1997 – 12 March 2002

**Master degree**

University of Milano-Bicocca, Milano (Italy)

English, Physics, Inorganic and Organic Chemistry, Biology, Applied Ecology.

Dissertation thesis "Characterization of tire debris components with potential impact on human health".

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	B2

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

Communication skills

Excellent team spirit I do my best to make colleagues at ease. I am able to adapt to multicultural work environment and strengthen this skill during my work experience in Norway. I have attended several national and international congress with oral presentation and improved during the years my communication skills, which were furthermore improved during my work at Milano-Bicocca University where I was recruited as assistant professor for the course of "Laboratory of applied cell biology".

Organisational / managerial skills

During my career I have been in charge of the supervision and the organization of the activities in biosafety level 2 laboratory. I have developed good skills in scheduling my own activities and those of other people. I have worked mostly in team with other researchers (young and senior) and supervised the activities of master degree students, Ph.D. students and post-doc. I have developed good skills in research project writing (scientific part and budget allocation); I have been also in charge of the scientific supervision of research projects.

Job-related skills

Excellent skill in primary and cell lines culturing and maintenance.  
 Good skills in molecular and cellular biology techniques such as protein extraction, SDS-PAGE and Western Blotting. Basic skills in real time PCR.  
 Excellent skill in fluorescent and conventional microscopy samples preparation, immunocytochemistry and immunohistochemistry.  
 Good skills in fixation, embedding and preparation of samples suitable for transmission electron microscopy (TEM) analyses. Excellent skills on Jeol-JEM 1220 electron microscopy.  
 Good skills in flow cytometry, sample preparation and analysis.  
 Basic competence on High Performance Liquid Chromatography (HPLC) technique.  
 Basic skills in Life Cycle Assessment (LCA) and Carbon Footprint (CF) evaluation

Computer skills

Good skills with main Microsoft Office applications (Office, Power Point, Excel). Good skills with imaging software such as Adobe Photoshop. Basic skills in HTML and Gabi Software.