

Curriculum Vitae

Last name, First name: HOET Peter...

Gender: M

Nationality/ies: Belgian...

Overall Scientific Expertise:

My research areas - and expertise – are toxicological (health) effects related to exposure at work and/or in the general environment.

The lab Environment & Health research focus includes: a) In vitro toxicology, alternative methods to study mechanisms of toxicity of metals, particulates, polymeric agents, organic chemicals, and release of mediators of inflammation. b) fine particles and nanomaterial, c) environmental exposures related (low molecular weight chemicals) immune effects d) Genetic and epi-genetic effects. This research spouted from the need to find markers – biomarkers - of exposure to stressors; e) identification of biomarkers; f) Clinical-epidemiological research in environmentally-induced disorders, and g) risk evaluation / risk assessment studies.

Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation [▲]
1990-1995	PhD-student Research assistant	Medical Faculty, K.U.Leuven Lung toxicology	Polyamine uptake & xenobiotic metabolism in alveolar epithelial cells.
1995-2001	Post-doc researcher	Medical Faculty, K.U.Leuven Pneumology & Occupational Medicine	See above
2001-2013	Assistant Professor	Medical Faculty, K.U.Leuven	Teaching: Toxicology, Environment & Health
2013 -	Full Professor	Medical Faculty, K.U.Leuven	Teaching: Toxicology, Environment & Health
2001 -	Research PI	Medical Faculty, K.U.Leuven Lab “Environment and Health”	See above

Educational Background

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation*
2011	Msc	UNIVERSITY OF SURREY (GB)	Master Applied Toxicology
1999 & 2001	Post-graduate	KU Leuven (BE)	Man & Environment 1 & 2
1995	PhD	KU Leuven (BE)	Biomedical Sciences
1989	Ir	KU Leuven (BE)	Bio-engineer
1985	Ing	KIHA (BE)	Biochemistry

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

- Additional consulted expert for ECVAM in several workgroups (1998-2005)
 - “Toxicokinetics in the context of the follow-up of the 7th Amendment on the Cosmetics Directive”
 - “Metabolism: a bottle-neck in in vitro toxicological test development.”
 - “In vitro chronic toxicity”
- Since 2005-2016 external expert SCCP (scientific committees on consumer products) of Directorate C - Public Health and Risk Assessment, EC.
- From 2009-2016 full member of the Scientific Committee on Emerging and New Identified Health Risks (SCENIHR) Directorate C - Public Health and Risk Assessment, EC.
- From 2013-2020 full member of the Scientific Committee of the Federal Agency on Food Safety (FAVV), Brussels, BE
- Since 2016 Full member of SCHEER (Scientific Committee on Health, Environmental and Emerging Risks) DG santé. - Since 2016.

Member of advisory board of:

- SiNfONiA – EU project, hosted by International Iberian Nanotechnology Laboratory (INL), PT
- AURORA – EU project, hosted by UCM Utrecht, NL

Memberships in Learned Societies (if any):

- Board member Belgian Toxicology Society (BelTox)
- European Toxicological Society (EuroTox)
- Society of Toxicology (SOT, U.S.A.)
- European Respiratory Society (ERS).

Memberships in Editorial Boards (if any):

- since 2010 - Member of Editorial Board of **Particle and Fibre Toxicology**
- since 2011 - Associate Editor of **Nanotoxicology**

List of Publications:

- more than **245 publications** in international peer-reviewed journals
- 1 book and 5 **book chapters**

Full list of publications can be found at [Lirias](#) at [Orcid](#)

Citation metrics can be found at: [ResearchID H-9987-2013](#) or at [Scholar.google](#)

Ten representative publications

Vanoirbeek, Jeroen AJ; Tarkowski, Maciej; Ceuppens, Jan L; Verbeken, Erik K; Nemery, Benoit; Hoet, Peter HM; ,Respiratory response to toluene diisocyanate depends on prior frequency and concentration of dermal sensitization in mice, *Toxicological Sciences*, 80, 2, 310-321, 2004

Nemmar, Abderrahim; Nemery, Benoit; Hoet, Peter HM; Van Rooijen, Nico; Hoylaerts, Marc F; ,Silica particles enhance peripheral thrombosis: key role of lung macrophage–neutrophil cross-talk, *American journal of respiratory and critical care medicine*, 171, 8, 872-879, 2005

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Tarkowski, Maciej; Vanoirbeek, Jeroen AJ; Vanhooren, Hadewijch M; Vooght, Vanessa De; Mercier, Caroline M; Ceuppens, Jan; Nemery, Benoit; Hoet, Peter HM; ,Immunological determinants of

ventilatory changes induced in mice by dermal sensitization and respiratory challenge with toluene diisocyanate, *American Journal of Physiology-Lung Cellular and Molecular Physiology*, 292,1,L207-L214,2007

Alfaro-Moreno, Ernesto; Nawrot, Tim S; Vanaudenaerde, Bart M; Hoylaerts, Marc F; Vanoirbeek, Jeroen A; Nemery, Benoit; Hoet, Peter HM; ,Co-cultures of multiple cell types mimic pulmonary cell communication in response to urban PM10, *European Respiratory Journal*, 32,5,1184-1194,2008

Napierska, Dorota; Thomassen, Leen CJ; Rabolli, Virginie; Lison, Dominique; Gonzalez, Laetitia; Kirsch-Volders, Micheline; Martens, Johan A; Hoet, Peter H; ,Size-Dependent Cytotoxicity of Monodisperse Silica Nanoparticles in Human Endothelial Cells, *Small*, 5,7,846-853,2009

De Vooght, Vanessa; Vanoirbeek, Jeroen AJ; Luyts, Katrien; Haenen, Steven; Nemery, Benoit; Hoet, Peter HM; ,Choice of mouse strain influences the outcome in a mouse model of chemical-induced asthma, *PloS one*, 5,9,e12581,2010

Hussain, Salik; Vanoirbeek, Jeroen AJ; Hoet, Peter HM; ,Interactions of nanomaterials with the immune system, *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, 4,2,169-183,2012

Luyts, Katrien; Napierska, Dorota; Nemery, Ben; Hoet, Peter HM; ,How physico-chemical characteristics of nanoparticles cause their toxicity: complex and unresolved interrelations, *Environmental Science: Processes & Impacts*, 15,1,23-38, 2013

Van Landuyt, Kirsten L; Hellack, Bryan; Meerbeek, Bart Van; Peumans, Marleen; Hoet, Peter; Wiemann, Martin; Kuhlbusch, Thomas AJ; Asbach, Christof; ,Nanoparticle release from dental composites, *Acta Biomaterialia*,,,,2013

Murugadoss, Sivakumar; Lison, Dominique; Godderis, Lode; Van Den Brule, Sybille; Mast, Jan; Brassinne, Frederic; Sebaihi, Noham; Hoet, Peter H; ,Toxicology of silica nanoparticles: an update, *Archives of toxicology*, 91,9,2967-3010,2017