



Dr. Enrico SABBIONI: Short CV

Enrico Sabbioni: born in Milan, 28-05-1942. Diploma in chemistry in 1960 (Technical Institute E.Molinari, Milan-I). University degree in Biological Sciences in 1970 (University of Pavia-I).

From 1-12-1961 to 31-09-2007 (retirement): scientific official of the European Commission at the Joint Research Centre (JRC)- Ispra, Italy.

Since 1 October 2007: senior researcher at the Allergy Diseases Related Unit, Aging Research Center (CeSI), Foundation University "G.d'Annunzio", Chieti, Italy.

Since 1 January 2010: Chief Scientific Advisor of the European Center for the Sustainable Impact of Nanotechnology (ECSIN), Veneto Nanotech, Rovigo, Italy

Key qualifications

1961-1998. Development of nuclear/radiochemical and advanced spectrochemical techniques for ultratrace analysis of trace metals in biological samples and their application to metal toxicology research, with special emphasis on the assessment of the exposure and the toxicological impact of trace elements on environment and human health (*in vivo* metabolic patterns in laboratory animals; *in vitro* studies by cell cultures and isolated biochemical systems; level of trace metals in tissues of differently exposed humans (general population, exposed workers, clinical cases) in relation to their role in lung, renal, neurological and reproductive system diseases).

1998-2004. Responsible of the IMETOX project (*In vitro* METal TOXicology) concerning research on metabolic pathways and toxic/carcinogenic effects of metal compounds by *in vitro* toxicity testing (cell cultures) for regulatory purpose (scientific support to the European Commission on the implementation of Directive 86/609/EEC to reduce, refine and replace animals used for experimental and other scientific purposes), and to contribute to risk assessment in the context of the new EU chemical policy (7th amendment of cosmetics and REACH).

2004-2007. Founder and responsible of the INATOX project (*In vitro* NAnoTOXicology research at JRC: development of strategy, use of alternative non-animal methods in nano in relation to toxic/carcinogenic effects of engineered nanoparticles of industrial/biomedical interest)

October 2007-present: *in vitro* metal toxicology and nanotoxicology research (study of uptake, intracellular distribution, immunotoxicity, gene expression, toxic effects induced by nanoparticles in cell cultures and human lymphocytes, sperm and umbilica cord stem cells).

January 2010-present: development of the Nanotoxicology research at ECSIN

March 2010-present: President, Società Italiana di Nanotossicologia (SIN)

More than 526 scientific contributions published (226 articles in peer-review journals). Contract Professor at the Universities of Pisa and Varese, Italy. More than 190 lessons and seminars in Universities and international organizations. Member of many professional associations.

Awards

1993: Commemorative Medal of Charles University of Prague “*for the outstanding achievements in the development and applications of nuclear analytical methods in various fields of life sciences and educational activities in this field, particularly in trace metal toxicology*”.

2002: Hevesy Medal Award. The International Committee for Activation Analysis (ICAA) voted unanimously to select Dr. Enrico Sabbioni, JRC, Ispra, Italy to be recipient of the 2002 Hevesy Medal. “*The decision was based on an favorable evaluation of his outstanding career contributions to radioanalytical chemistry, particularly in biological and biomedical applications, over a 40 year period*”. It is named after George de Hevesy (1885-1966) who received the Nobel Prize for Chemistry in 1943 for his work on the use of isotopes as tracers in the study of chemical processes.

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