

## PERSONAL INFORMATION

## Eugenia Cordelli

Date of birth 06/01/1959

Nationality Italian

## WORK EXPERIENCE

- 2003-onwards **Senior Scientist: Laboratory of Health and Environment (former Laboratory of Biosafety and Risk Assessment)**  
 ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Rome, Italy  
 Research themes: environmental mutagenesis, radiation biology, toxicology. Research design, team coordination and liaising with internal and external collaborators. Scientific paper writing. Teaching and training of bachelor and master students.  
 Business or sector Research
- 2006-2011 **Honorary Professor**  
 University Roma2 "Tor Vergata", Faculty of Medicine and Surgery  
 M. Sc. "Techniques for the Prevention in the Environment and in the Workplace", Course "Environmental Mutagenesis".  
 M. Sc. "Techniques for the Prevention in the Environment and in the Workplace", Course "Toxicology of Reproduction".  
 Business or sector Academia
- 1989-2003 **Scientist**  
 ENEA – Italian National Agency for New Technologies, Energy and the Environment, Rome, Italy.  
 Design and implementation of experimental activities in the field of genetic and reproductive toxicology. Standardization of comet assay and its application to assess DNA damage in somatic and germ cells. Epidemiological and experimental studies aiming at the evaluation of the effects of pollutants on male fertility. In vivo inhalation toxicology studies  
 Business or sector Research
- 1983-1989 **Partner of the "Studio Ricerche Biomediche Avanzate" (SRBA)**  
 Founding partner of the practice, Dr. Cordelli participated in the research and analysis activities commissioned by various public research bodies and companies

## Member of scientific and advisory entities

- 2012-2014  
 Member of the OECD expert group for the development of the OECD Guideline for the testing of chemicals N°489 "in vivo mammalian Comet Assay"
- 2018-  
 Member of the OECD expert group on Developing a new Test Guideline for the in vivo Pig-a gene mutation assay
- 2022-  
 Member of the OECD expert group on Developing in vivo mammalian comet assay (OECD TG 489) on gonadal cells to study germ cell specific genotoxic effects.
- 2018-  
 Member of the working group Flavourings of the EFSA

## EDUCATION AND TRAINING

- 1988 **Implementation training in flow cytometry**  
 "Gesellschaft für Strahlen-und Umweltforschung" in Frankfurt
- 1985 **Scholarship in "Oncology"**  
 University of Camerino – Faculty of Medicine

## 1978-1982 Degree in Biological Sciences

University "La Sapienza", Rome – Faculty of Mathematical, Physical and Natural Sciences

## PERSONAL SKILLS

## Job-related skills and competences

- Long-standing expertise covering different areas of cell biology. Consolidated experience in analytical cytology, and in the development and validation of biomarkers of genetic effects in somatic and germ cells. More than 50 research publications in the field of mutagenesis and reproductive toxicology in peer-reviewed journals.

## Recent representative publications

Villani P, Eleuteri P, Pacchierotti F, Maranghi F, Tassinari R, Narciso L, Tait S, Lori G, Andreoli C, Huet S, Jarry G, Fessard V, Cordelli E. Pyrogenic synthetic amorphous silica (NM-203): Genotoxicity in rats following sub-chronic oral exposure. *Mutat Res Genet Toxicol Environ Mutagen*. 2022 Apr-May;876-877:503458. doi: 10.1016/j.mrgentox.2022.503458. Epub 2022 Jan 24. PMID: 35483783.

Cordelli E, Bignami M, Pacchierotti F. Comet assay: a versatile but complex tool in genotoxicity testing. *Toxicol Res (Camb)*. 2021 Jan 5;10(1):68-78. doi: 10.1093/toxres/taaa093. PMID: 33613974; PMCID: PMC7885189.

Tassinari R, Cordelli E, Eleuteri P, Villani P, Pacchierotti F, Narciso L, Tait S, Valeri M, Martinelli A, Di Felice G, Butteroni C, Barletta B, Corinti S, Lori G, Maranghi F. Effects of sub-chronic oral exposure to pyrogenic synthetic amorphous silica (NM-203) in male and female Sprague-Dawley rats: focus on reproductive systems. *Reprod Toxicol*. 2021 Oct;105:17-24. doi: 10.1016/j.reprotox.2021.08.001. Epub 2021 Aug 8. PMID: 34380069.

Pacchierotti F, Ardoino L, Benassi B, Consales C, Cordelli E, Eleuteri P, Marino C, Sciortino M, Brinkworth MH, Chen G, McNamee JP, Wood AW, Hooijmans CR, de Vries RBM. Effects of Radiofrequency Electromagnetic Field (RF-EMF) exposure on male fertility and pregnancy and birth outcomes: Protocols for a systematic review of experimental studies in non-human mammals and in human sperm exposed in vitro. *Environ Int*. 2021 Dec;157:106806. doi: 10.1016/j.envint.2021.106806. Epub 2021 Aug 26. PMID: 34454359; PMCID: PMC8484860.

Crebelli R, Caiola S, Conti L, Cordelli E, De Luca G, Dellatte E, Eleuteri P, Iacovella N, Leopardi P, Marcon F, Sanchez M, Sestili P, Siniscalchi E, Villani P. Can sustained exposure to PFAS trigger a genotoxic response? A comprehensive genotoxicity assessment in mice after subacute oral administration of PFOA and PFBA. *Regul Toxicol Pharmacol*. 2019 Aug;106:169-177. doi: 10.1016/j.yrtph.2019.05.005. Epub 2019 May 7. PMID: 31071380.

Grosen A, Bungum M, Hvas CL, Julsgaard M, Cordelli E, Kelsen J. Vedolizumab Does Not Impair Sperm DNA Integrity in Men With Inflammatory Bowel Disease. *Gastroenterology*. 2019 Jun;156(8):2342-2344. doi: 10.1053/j.gastro.2019.02.041. Epub 2019 Mar 5. PMID: 30849317.

Russo A, Cordelli E, Salvitti T, Palumbo E, Pacchierotti F. Rad54/Rad54B deficiency is associated to increased chromosome breakage in mouse spermatocytes. *Mutagenesis*. 2018 Oct 11;33(4):323-332. doi: 10.1093/mutage/gey027. PMID: 30204892.

Bonassi S, Prinzi G, Lamonaca P, Russo P, Paximadas I, Rasoni G, Rossi R, Ruggi M, Malandrino S, Sánchez-Flores M, Valdiglesias V, Benassi B, Pacchierotti F, Villani P, Panatta M, Cordelli E. Clinical and genomic safety of treatment with Ginkgo biloba L. leaf extract (IDN 5933/Ginkgoselect®Plus) in elderly: a randomised placebo-controlled clinical trial [GiBiEx]. *BMC Complement Altern Med*. 2018 Jan 22;18(1):22. doi: 10.1186/s12906-018-2080-5. PMID: 29357859; PMCID: PMC5778811.

Cordelli E, Keller J, Eleuteri P, Villani P, Ma-Hock L, Schulz M, Landsiedel R, Pacchierotti F. No genotoxicity in rat blood cells upon 3- or 6-month inhalation exposure to CeO<sub>2</sub> or BaSO<sub>4</sub> nanomaterials. *Mutagenesis*. 2017 Jan;32(1):13-22. doi: 10.1093/mutage/gew005. Epub 2016 Feb 9. PMID: 26861493.

