

BIOGRAPHY

May 10th 2011



Title and name

Prof. Pasquale Mosesso

Nationality

Italian.

Panel

Scientific Panel on Food Additives and Nutrient Sources (ANS)

Education

Degree in Biological Sciences, 1978, University of Rome "La Sapienza"

Scientific and risk assessment experience

Associate Professor of Genetics, holder of the chairs of Genetics and Genetic Toxicology in the faculties of Biological Sciences and Environmental Sciences, State University of Tuscia, Viterbo, Italy and scientific responsible of a research team working mainly in the field of Genetic Toxicology and molecular cytogenetics focused on mechanisms of induction of mutation by environmental pollutants, food-born mutagens, mycotoxins, ionizing radiations, drugs and their impurities, pesticides; testing strategies for genetic toxicology testing and harmonization of guidelines for genetic toxicology; biomonitoring of human population exposed to chemical and physical agents; toxicology studies with sentinel organisms in soil and water (fishes, amphibians).

Main scientific publications

Main areas of publication include DNA repair and mutagenesis, environmental and chemical mutagenesis, radiation risk, environmental and occupational health and carcinogenesis:

- 1) Kristin Czakai, Katja Müller, Pasquale Mosesso, Gaetano Pepe, Markus Schulze, Antje Gohla, Debasis Patnaik, Wolfgang Dekant, Jonathan M.G. Higgins, and Angela Mally (2011) Perturbation of mitosis through inhibition of histone acetyltransferases: the key to ochratoxin A toxicity and carcinogenicity? *Toxicol. Sci.* first published online May 6, 2011 doi:10.1093/toxsci/kfr110;
 - 2) Mosesso P., Fabrizio Palitti, Gaetano Pepe, Joaquin Piñero, Raffaella Bellacima, Gunnar Ahnstrom, Adayapalam T. Natarajan (2010). Relationship between chromatin structure, DNA damage and repair following X-irradiation of human lymphocytes. *Mutation Research. Genetic Toxicology and Environmental Mutagenesis* 16, 86-91;
 - 3) Pasquale Mosesso, Serena Cinelli, Joaquin Piñero, Raffaella Bellacima, Gaetano Pepe (2008) In Vitro Cytogenetic Results Supporting a DNA Nonreactive Mechanism for Ochratoxin A, Potentially Relevant for its Carcinogenicity. *Chem. Res. Toxicol.* 21, 1235–1243.
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- 4) Mally A., Pepe G., Ravoori S., Fiore M., Gupta R.C., Dekant W., Mosesso P. (2005) Ochratoxin A causes DNA damage and cytogenetic effects but no DNA adducts in rats. *Chem. Res. Toxicol.* 18, 1253-61.
- 5) Mosesso P., Piane M., Palitti F., Pepe G., Penna S., Chessa L., (2005) The novel human gene aprataxin is directly involved in DNA single-strand-break repair. *Cell Mol. Life Sci.* 62, 485-491.
- 6) Mosesso P., Penna S., Pepe G., Lorenti-Garcia C., Palitti F. (2004) Potassium bromate but not X-rays cause unexpectedly elevated levels of DNA breakage similar to those induced by ultraviolet light in Cockayne syndrome (CS-B) fibroblasts. *Cytogenet. Genome Res.* 104, 178-181.
- 7) Salvatore Motta, Concetta Federico, Salvatore Saccone, Vito Librando and Pasquale Mosesso (2004) Cytogenetic evaluation of extractable agents from airborne particulate matter generated in the city of Catania (Italy). *Mutat. Res.* 561, 45-52.
- 8) Bonassi S., Fenech M., Lando C., Lin Y.P., Ceppi M., Chang W.P., Holland N., Kirsh-Volders M., Zeiger E., Ban S., Barale R., Bigatti M.P., Bolognesi C., Jia C., Di Giorgio M., Ferguson L.R., Fucic A., Lima O.G., Hrelia P., Krishnaja A.P., Lee T.K., Migliore L., Mikhalevich L., Mirkova E., Mosesso P., Muller WU., Odagiri Y., Scarffi MR., Szabova E., Vorobtsova I., Vral A., Zijno A., (2001) HUMAN MicroNucleus project: International Database Comparison for Results with the Cytokinesis-block Micronucleus Assay in Human Lymphocytes: I. Effect of laboratory protocol, scoring criteria, and host factors on the frequency of micronuclei. *Environ. Mol. Mutagen.* 37, 31-45.
- 9) Pichierri Pietro, Franchitto Annapaola, Mosesso Pasquale and Palitti Fabrizio (2001) Werner's syndrome protein is required for correct recovery after replication arrest and DNA damage induced in S-phase of cell cycle. *Mol. Biol. Cell* 12, 1-10.
- 10) Mosesso P., Pichierri P., Franchitto A. and Palitti F., (2000) Evidence that camptothecin-induced aberrations in the G2 phase of cell cycle of Chinese hamster ovary (CHO) cell lines is associated with transcription. *Mutat. Res.* 452, 189-195.
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