BIOGRAPHY

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Title and name
Prof. Antonio F. Hernández-Jerez

Nationality
Spanish

Panel
Plant Protection Products and their Residues (PPR)

Education
Graduate in Medicine ('Medicinae doctor'), 1985, University of Granada, Spain
Ph.D. in Medicine (Excellent, cum laude), 1989, University of Granada, Spain
Medical Specialist in Occupational Medicine, 1988, School of Occupational Medicine, University of Granada, Spain
Medical Specialist in Legal and Forensic Medicine, 1991, School of Legal and Forensic Medicine, University of Granada, Spain
Industrial Hygienist, 1999, Council of Employment and Technological Development of the Andalusian Administration, Spain
Expert in Epidemiology and Clinical Investigation, 2000, Andalusian School of Public Health, Spain

Scientific and risk assessment experience
- Acute and long-term adverse health effects of pesticides in humans.
- Biomarkers of exposure, toxic response and susceptibility to pesticides.
- Gene-environment interactions
- Pesticide risk assessment.

Main scientific publications
Assessment of populations long-term exposed to pesticides based on clinical and biomonitoring approaches, development of biomarkers of toxic response and genetic markers of individual susceptibility.

Hernández AF, Mackness B, Rodrigo L, López O, Pla A, Gil F, Durrington PN, Pena G, Parrón T, Serrano JL, Mackness MI. 2003. Paraoxonase activity and genetic polymorphisms in greenhouse workers with long term pesticide exposure. Human and Experimental Toxicology 22: 565-574

Hernández AF, Gómez MA, Pena G, Gil F, Rodrigo L, Villanueva E, Pla A. 2004. Effect of long-term exposure to pesticides on plasma esterases from plastic greenhouse workers. Journal of Toxicology and Environmental Health A. 67: 1095-1108

Hernández AF, López O, Rodrigo L, Gil F, Pena G, Serrano JL, Parrón T, Álvarez JC, Lorente JA, Pla A. 2005. Changes in erythrocyte enzymes in humans long-term exposed to pesticides Influence of several markers of individual susceptibility. Toxicology Letters 159: 13-21

Hernández AF, Gómez MA, Pérez V, García-Lario JV, Pena G, Gil F, López O, Rodrigo L, Pino G, Pla A. 2006. Influence of exposure to pesticides on serum components and enzyme activities of cytotoxicity among intensive agriculture farmers. Environmental Research 102: 70-76

López O, Hernández AF, Rodrigo L, Gil F, Pena G, Serrano JL, Parrón T, Villanueva E, Pla A. 2007. Changes in antioxidant enzymes in humans with long-term exposure to pesticides. Toxicology Letters 171: 146-153

Cataño HC, Carranza E, Huamaní C, Hernández AF. 2008. Plasma Cholinesterase Levels and Health Symptoms in Peruvian farmworkers exposed to organophosphate pesticides. Archives of Environmental and Contamination Toxicology 55: 153-159

Hernández AF, Casado I, Pena G, Gil F, Villanueva E, Pla A. 2008. Low level of exposure to pesticides leads to lung dysfunction in occupationally exposed subjects. Inhalation Toxicology 20: 839-849

Hernández AF, Parrón T, Alarcón R. 2011. Pesticides and Asthma. Current Opinion in Allergy & Clinical Immunology 11: 90-96

Parrón T, Requena M, Hernández AF, Alarcón R. 2011. Association between environmental exposure to pesticides and neurodegenerative diseases. Toxicology and Applied Pharmacology 256: 379-395

Hernández AF, Parrón T, Tsatsakis AM, Requena M, Alarcón R, López-Guarnido O. 2012. Toxic effects of pesticide mixtures at a molecular level: their relevance to human health. Toxicology (in press (doi: 10.1016/j.tox.2012.06.009)