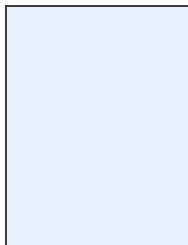


BIOGRAPHY

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Title and name

Prof. Lucio Guido Costa

Nationality

Italy

Panel

Additives and products or substances used in animal feed (FEEDAP)

Education

Doctorate in Pharmacy/Pharmacology, 1977, University of Milano; Postdoctoral Training in Toxicology 1979, University of Milano; Postdoctoral Training in Toxicology, 1980-83, University of Texas at Houston

Scientific and risk assessment experience

- University Professor of Toxicology and Pharmacology for 30 years
 - Research and teaching in the areas of toxicology and neurotoxicology of pesticides, solvents, metals, toxins, contaminants, food additives
 - Extensive editorial and peer review activities
 - Member of panels/committee reviewing risks of chemicals
 - Previous member of EFSA Contaminant Panel and related WGs
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Main scientific publications

Over 400 publications, book chapters, books in the areas of toxicology and neurotoxicology of chemicals

Some selected recent publications:

Giordano G, Tait L, Furlong CE, Cole TB, Kavanagh TJ, Costa LG (2013) Gender differences in brain susceptibility to oxidative stress are mediated by levels of paraoxonase-2 (PON2) expression. Free Rad. Biol. Med. 58: 98-108.

Chen J, Zhang X, Kusumo H, Costa LG, Guizzetti M (2013) Cholesterol efflux is differentially regulated in neurons and astrocytes: implications for brain cholesterol homeostasis. Biochim. Biophys. Acta 1831: 263-275.

Costa LG (2013) Toxic effects of pesticides. IN: Casarett and Doull's Toxicology. The Basic Science of Poisons. 8th Edition. CD Klaassen ed. McGraw-Hill, New York, NY (in press).

Pellacani C, Buschini A, Galati S, Mussi F, Franzoni S, Costa LG (2012) Evaluation of DNA damage induced by two polybrominated diphenyl ether flame retardants (BDE-47 and BDE-209) in SK-N-MC cells. Int. J. Toxicol. 31: 372-379.

- Bal-Price AK, Coecke S, Costa LG, Crofton KM, Fritsche E, Goldberg A, Grandjean P, Lein PJ, Li A, Lucchini R, Mundy WR, Padilla S, Persico AM, Seiler AEM, Kreysa J (2012) Advancing the science of developmental neurotoxicity (DNT): testing for better safety evaluation. *ALTEX* 2: 202-215.
- Battilani P, Gualla A, Dall'Asta C, Pellacani C, Galaverna G, Giorni P, Caglieri A, Tagliaferri S, Spadaro D, Pietri A, Dossena A, Marchelli R, Gullino ML, Costa LG (2011) Phomopsin: an overview of phytopathological and chemical aspects, toxicity, analysis and occurrence. *World Mycotoxin J.* 4: 345-359.
- Cole TB, Beyer RP, Bammler TK, Park SS, Farin FM, Costa LG, Furlong CE (2011) PON1 status modulates cerebellar gene expression changes associated with repeated developmental exposure of mice to chlorpyrifos oxon. *Toxicol. Sci.* 123: 155-169.
- Giordano G, Guizzetti M, Dao K, Mattison HA, Costa LG (2011) Ethanol impairs muscarinic receptor-induced neuritogenesis in rat hippocampal slices: role of astrocytes and extracellular matrix proteins. *Biochem. Pharmacol.* 82: 1792-1799.
- Verzelloni E, Pellacani C, Tagliazucchi D, Tagliaferri S, Calani L, Costa LG, Brighenti F, Crozier A, Conte A, Del Rio D (2011) Antiglycative and neuroprotective activity of colon-derived polyphenol catabolites. *Mol. Nutr. Food Res.* 55 (Suppl. 1): S35-S43.
- Costa LG, Giordano G, Furlong CE (2011) Pharmacological and dietary modulators of paraoxonase 1 (PON1) activity and expression: The hunt goes on. *Biochem. Pharmacol.* 81: 337-344.
- Costa LG, Giordano G, Guizzetti M (2011) Predictive models for neurotoxicity assessment. IN: *Predictive Toxicology in Drug Safety*. JJ Xu, L Urban, Eds. Cambridge University Press, pp. 135-152.
- Costa LG, Giordano G, Guizzetti (eds.) (2011) *In Vitro Neurotoxicology: Methods and Protocols*. *Methods in Molecular Biology*, Vol. 758. Springer-Humana, NY, pp. 415.
- Costa LG, Giordano G, Faustman EM (2010) Domoic acid as a developmental neurotoxin. *Neurotoxicology* 31: 409-423.
- Vitalone A, Catalani A, Cinque C, Fattori V, Matteucci P, Zuena AR, Costa LG (2010) Long-term effects of developmental exposure to low doses of PCB 126 and methylmercury during development. *Toxicol. Lett.* 197: 38-45.
- Tagliaferri S, Caglieri A, Goldoni M, Pinelli S, Alinovi R, Poli D, Pellacani C, Giordano G, Mutti A, Costa LG (2010) Low concentrations of the brominated flame retardants BDE-47 and BDE-99 induce synergistic oxidative stress-mediated neurotoxicity in human neuroblastoma cells. *Toxicol. In Vitro* 24: 116-122.
- Giordano G, Pizzurro D, VanDeMark KL, Guizzetti M, Costa LG (2009) Manganese inhibits the ability of astrocytes to promote neuronal differentiation. *Toxicol. Appl. Pharmacol.* 240: 226-235.
- Moore NH, Costa LG, Shaffer SA, Goodlett D R, Guizzetti M (2009) Shotgun proteomics implicates extracellular matrix proteins and protease systems in neuronal development induced by astrocyte cholinergic stimulation. *J. Neurochem.* 108: 891-908.