

# BIOGRAPHY

12/05/2011



---

**Title and name**

Dr Fernando Aguilar

---

---

**Nationality**

Swiss

---

---

**Panel**

Panel on Food Additives and Nutrient Sources added to Food (ANS)

---

---

**Education**

PhD in plant molecular biology. 1990. University of Neuchâtel, Switzerland

---

---

**Scientific and risk assessment experience**

Experience in plant molecular biology and human molecular toxicology related to the risk assessment of chemicals and food contaminants. Strong background in the areas of molecular toxicology, mutagenesis and other areas of cancer research related to food contaminants and environmental stress. Other areas of expertise cover the safety evaluation of food additives, processing aids and nutrient sources; conducting toxicological evaluations and establishing toxicological reference values such as acceptable daily intakes (ADIs) or tolerable intakes. Past and actual member of several national and international advisory committees.

---

---

**Main scientific publications**

Main publications in the areas of molecular toxicology and cancer research related to food contaminants and environmental stresses.

1. Aguilar F, Hussain SP, Cerutti P. 1993. Aflatoxin B1 induces the transversion of G → T in codon 249 of the p53 tumor suppressor gene in human hepatocytes. P.N.A.S. USA, 90, 8586-8590.
2. Aguilar F, Harris CC, T Sun, M Hollstein, Cerutti P. 1994. Geographic variation of p53 mutational profile in nonmalignant human liver. Science, 264, 1317-1319.
3. Aguilar F, Cerutti P. 1994. Genotypic mutation analysis by RFLP/PCR. Methods in Toxicology, Vol. 1B, 237-247.
4. Mancuso T, Aguilar F, Pescarolo MP, Clerico L, Russo P, Parodi S. 1997. Mutation frequencies at codon 248 of the p53 tumour suppressor gene are not increased in colon cancer cell lines with the RER+ phenotype. Nucleic Acids Research, 25(18), 3643-3648.

5. Mace K, Aguilar F, Wang JS, Vautravers P, Gomez-lechon M, Gonzales FJ, Groopman J, Haris CC, Pfeifer A. 1997. Aflatoxin B1-induced DNA adduct formation and p53 mutations in CYP450-expressing human liver cell lines. *Carcinogenesis*, 18, 1291-1297.
6. Hussain SP, Aguilar F, Cerutti P. 1994. Mutagenesis of codon 248 of the human p53 tumour suppressor gene by N-ethyl-N-nitrosourea. *Oncogene*, 9, 13-18, 1994.
7. Cerutti P, Hussain P, Pourzand C, Aguilar F. 1994. Mutagenesis of the H-ras protooncogene and the p53 tumor suppressor gene. *Cancer Res.* 54, 1934s-1938s.
8. Hussain SP, Aguilar F, Amstad P, Cerutti P. 1994. Oxy-radical induced mutagenesis of hotspot codons 248 and 249 of the human p53 gene. *Oncogene*, 9(8), 2277-2281.
9. Smith-Sorensen B, Gebhardt MC, Kloen P, McIntyre J, Aguilar F, Cerutti P, Borrensens A-L. 1992. Screening for TP53 mutations in osteosarcomas using constant denaturant gel electrophoresis. *Human Mutation* 2(4), 274-285.
10. Aguilar F, Montandon P-E, Stutz E. 1991. Two genes encoding the soybean translation elongation factor eF-1 $\alpha$  are transcribed in seedling leaves. *Plant Molecular Biology*, 17, 351-360.