

Curriculum vitae

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Education

Ph.D, University of Pisa

Specialist in Applied Genetics, University of Pisa

Master (Laurea) in Biological Sciences, University of Pisa

Scientific Activity

Present: Researcher, Laboratory of Genetics, University of Pisa

2003-2006: Contract Professor “Rientro dei Cervelli”, Department of Biology, University of Pisa.

2000-2003: Research Assistant, International Agency for Research on Cancer (IARC), Lyon- France.

1998-2000: Visiting scientist, Lineberger Comprehensive Cancer Center, University of North Carolina, Chapel Hill, North Carolina, USA.

Awards:

2003-2006: MIUR “Rientro dei Cervelli” (Ministry of Research and University), University of Pisa

2003: IASLC-CRFA (International Association of the Study of Lung Cancer - Cancer Research Foundation of America) fellowship

2000-2002: Special Training Award (**IARC, Lyon, France**)

1998-2000: Post-doctoral Fellowship (Lineberger Cancer Center, UNC, NC, USA)

Publications (peer-reviewed)

1. **Gemignani F**, S. Landi*, N. Szeszenia-Dabrowska, D. Zaridze, J. Lissowska, P. Rudnai, E. Fabianova, D. Mates, L. Foretova, V. Janout, V. Bencko, V. Gaborieau, L. Gioia-Patricola, I. Bellini, R. Barale, F. Canzian, J. Hall, P. Boffetta, R. J. Hung, and P. Brennan. “*Development of lung cancer before the age of 50: the role of xenobiotic metabolism genes*” **Carcinogenesis** (2007) In press.
2. **Gemignani F***, S. Landi*, M. Neri, R. Barale, S. Bonassi, F. Bottari, P.A. Canessa, F. Canzian, M. Ceppi, R. Filiberti, G.P. Ivaldi, M. Mencoboni, P. Scaruffi, G. P. Tonini, L. Mutti, and R. Puntoni. “*Polymorphisms of glutathione-S-transferase M1 and manganese superoxide dismutase are associated with the risk of malignant pleural mesothelioma*” **Int J Cancer** (2006) In press.
3. Bottari F. S.Landi, R.Barale and **F.Gemignani**. “*Single tube genotyping of GSTM1, GSTT1, and TP53 polymorphisms by multiplex PCR*”. **DNA Seq.** (2006) In press.
4. **Gemignani F.*** S. Landi *, F. Canzian, V. Gaborieau, R. Barale, D. Landi, N. Szeszenia-Dabrowska, D. Zaridze, J. Lissowska, P. Rudnai, E. Fabianova, D. Mates, L. Foretova, V. Janout, V. Bencko, L. Gioia-Patricola, J. Hall, P. Boffetta, R. J. Hung, and P. Brennan. “*DNA repair and cell cycle control genes and the risk of young onset lung cancer.*” **Cancer Res.** (2006) 66: 11062-11069.
5. **Gemignani F.*** Landi S.,* Bottari F, Gioia-Patricola L, Guino E, Cambray M, Biondo S, Capella G, Boldrini L, Canzian F, Moreno V. “*Polymorphisms within inflammatory genes and colorectal cancer.*” **J Negat Results Biomed.** (2006) 5:15.
6. Hung R. J., P. Boffetta, F. Canzian, N. Moullan, N. Szeszenia-Dabrowska, D. Zaridze, J. Lissowska P. Rudnai, E. Fabianova, D. Mates, L. Foretova, V. Janout, A. Chabrier, Landi S, **Gemignani F**, J. Hall, and P. Brennan. “*Sequence Variants in Cell Cycle Control Pathway, X-ray exposure, and Lung Cancer Risk: A Multicenter Case-Control Study in Central Europe*”. **Cancer Res.** (2006) 66:8280-8286.
7. Gheit T, S. Landi, **F. Gemignani**, PJ Snijders, S. Vaccarella, S. Franceschi, F. Canzian and M. Tommasino. “*Development of a sensitive and specific assay combining multiplex PCR and DNA microarray primer extension to detect high-risk mucosal human papillomavirus types*”. **J Clin Microbiol.** (2006) 44:2025-2031.
8. **Gemignani F.***, V. Moreno*, S. Landi*, L. Gioia-Patricola, A. Chabrier, I. Blanco, S. Gonzalez, E. Guino, G. Capellà, and F. Canzian. “*Polymorphisms in genes of nucleotide and base excision repair: risk and prognosis of colorectal cancer*”. **Clin Cancer Res.** (2006) 12:2101-2108.
9. Brennan P, C.C. Hsu, N. Moullan, N. Szeszenia-Dabrowska, J. Lissowska, D. Zaridze, P. Rudnai, E. Fabianova, D. Mates, V. Bencko, L. Foretova, V. Janout, **F. Gemignani**, A. Chabrier, J. Hall, R.J. Hung, P. Boffetta, and F. Canzian. “*Effect of cruciferous vegetables on lung cancer in patients stratified by genetic status: a mendelian randomisation approach*”. **Lancet** (2005) 9496:1558-1560.

10. **Gemignani F**, S. Landi, V. Moreno, L. Gioia-Patricola, A. Chabrier, E. Guino, M. Navarro, M. Cambray, G. Capellà, and F. Canzian. "Polymorphisms of the Dopamine Receptor Gene DRD2 and Colorectal Cancer Risk." **Cancer Epidemiol Biomarkers Prev.** (2005) 7:1633-1638.
11. **Gemignani F.,*** S. Landi,* V. Moreno, L. Gioia-Patricola, A. Chabrier, E. Guino, M. Navarro, J. de Oca, G. Capellà, and F. Canzian. "A comprehensive analysis of phase I and phase II metabolism gene polymorphisms and risk of colorectal cancer" **Pharmacogenet Genomics** (2005) 8:535-546.
12. **Gemignani F.,*** S. Landi,* S. Monnier, F. Canzian. "A Database of Single Nucleotide Polymorphisms and a Genotype Microarray for Genetic Epidemiology of Lung Cancer" **Exp Lung Res.** (2005) 31:223-257.
13. **Gemignani F.,** S. Landi, A. Chabrier, A. Smet, I. Zehbe, F. Canzian, M. Tommasino."Generation of a DNA microarray for determination of E6 natural variants of human papillomavirus type 16" **J Virol Methods** (2004) 119:95-102.
14. **Gemignani F.,** S. Landi, V. Moreno, N. Moullan, A. Chabrier, S. Gutiérrez-Enríquez, J. Hall, E. Guino, M.A. Peinado, G. Capella, F. Canzian. "A TP53 polymorphism is associated with increased risk of colorectal cancer and with reduced levels of TP53 mRNA" . **Oncogene** (2004) 23:1954-1956.
15. **Gemignani F.,** S. Landi, L. Gioia-Patricola, A. Chabrier, V. Moreno and F. Canzian. "Evaluation of a micro-array for genotyping polymorphisms related to xenobiotic metabolism and DNA repair" . **Biotechniques** (2003) 35:816-827.
16. Vacek M.M., H. Ma, **Gemignani F.,** G. Lacerra, T. Kafri and R. Kole "Correction of aberrant splicing in erythroid cells from thalassemic patients by lentiviral delivery of an antisense snRNA". **Blood** (2003) 101: 104-111.
17. **Gemignani F.,** S. Landi, and F. Canzian. "A review of strategies based on primer extension (PEX) technology". **Minerva Biotechnol** (2002) 14:231-236.
18. Sazani P., **Gemignani F.,** SH. Kang, MA. Maier, M. Manoharan, M. Persmark, D. Bortner, and R. Kole. "Systemically delivered antisense oligomers upregulate gene expression in mouse tissues." **Nature Biotechnol** (2002) 20: 1228-1233.
19. **Gemignani F.,** P. Sazani P. Morcos and R. Kole "Temperature-dependent splicing of β -globin pre-mRNA". **Nucleic Acids Res.** (2002) 30:4592-4598.
20. **Gemignani F.,** C. Perra, S. Landi, F. Canzian, A. Kurg, N. Tõnisson, R. Galanello, A. Cao, A. Metspalu and G. Romeo "Reliable detection of β -thalassemia and G6PD mutations by a DNA microarray". **Clin. Chem.** (2002) 48: 2051-2054.
21. **Gemignani F.,** S. Landi, F. Vivant, S. Zienolddiny, P. Brennan and F. Canzian "A catalogue of polymorphisms related to xenobiotic metabolism and cancer susceptibility". **Pharmacogenetics** (2002) 12: 459-463.
22. Ballardin M., **Gemignani F.,** L. Bodei, G. Mariani, M. Ferdeghini, A M Rossi, L. Migliore and R. Barale. " Formation of micronuclei and of clastogenic factor(s) in

- patients receiving therapeutic doses of iodine-131". **Mutation Research** (2002) 514: 77-85.
23. **Gemignani F.**, S. Landi, D. M. DeMarini and R. Kole " *Spontaneous and MNNG-induced reversion of an EGFP construct in HeLa cells: an assay for observing mutations in living cells by fluorescent microscopy*". **Human Mutation** (2001) 18: 526-534.
 24. **Gemignani F.**, M. Ballardin, F. Maggiani, AM. Rossi, A. Antonelli and R. Barale. "*Chromosome aberrations in lymphocytes and clastogenic factors in plasma detected in Belarus children 10 years after Chernobyl accident*". **Mutation Research** (1999) 446:245-53.
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 26. Barale R., L. Chelotti, T. Davini, S. Del Ry, M. G. Andreassi, M. Ballardin, M. Bulleri, J. He, F. Dipede, **Gemignani F.** and S. Landi. "*Sister chromatid exchange and micronucleous frequency in human lymphocytes of 1650 subjects of an Italian population. 2. Contribution of sex, age and life style*". **Environmental and Molecular Mutagenesis** (1998) 31:228-242.
 27. Bongioanni P., **Gemignani F.**, B. Boccardi, M. Borgna and B. Rossi. "*Platelets monoamine oxidase molecular activity in demented patients*". **Ital. J. Neurol. Sci.** (1997) 18:151-156.
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