| **NAME FIORENZA MINERVINI** | **e-mail:fiorenza.minervini@ispa.cnr.it** |
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| **ROLE**: Senior Researcher | **UOS**: |



***Education and training*** ***(Max. 300 characters including spaces)***

Degree taken summa cum laude in Veterinary Medicine (April 1983), professional qualification (1983), specialization in Avicultural Technology and Pathology (1985).
Researcher from 1° may 1987 in Institute Toxins and Mycotoxins, CNR ; Senior researcher from 31 December 2001

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***Skills and competences*** ***(Max. 300 characters including spaces)***

***In vitro*** and ***ex vivo*** studies on mycotoxins, and polyphenols in primary cultures and immune, intestinal and reproductive cell lines: proliferation, apoptosis, mitochondrial function, inflammatory mediators, oxidative stress assessment using fluorometric and colorimetric tests

Assessment of human and animal exposure to mycotoxins using ELISA tests

***Main research projects (participation and responsibility)***
***(Max. 1200 characters including spaces)***

- Progetto Ricerca Finalizzata: Assessment of toxic compounds in foods and *in* vivo and *in vitro* studies on functional foods. 2003-2005 **(responsible for U.O**.)
- Progetto di Ricerca Corrente:" Employment of rainbow trout (*Onchorhynchus mykiss*) model for research on sub acute and chronic toxicity induced by single or combined mycotoxins" 2003-2005 (**responsible for U.O**.).
- 7th Framework programme: Novel integrated strategies for worldwide mycotoxin reduction in food and feed chains (MycoRed) 2009-2013 **(partecipation**).
- Progetto CNR: Conoscenze Integrate per la Sostenibilità e l'Innovazione del made in Italy Agroalimentare (CISIA): Prodotti Regionali con Proprietà Salutistiche per Nuovi Alimenti Functionali (RISaNA). 2010-2012 (**responsible for U.O.).**
- Misura 124- Cooperazione per lo sviluppo di nuovi prodotti, processi e tecnologie nei settori agricolo e alimentare e in quello forestale. "Tracciabilità dell'olio di oliva e valorizzazione dei sottoprodotti dell'industria olearia". 2013-2014 (**partecipation**).
- Progetto PROINNO_BIT (MIUR) . "Sviluppo di prodotti alimentari innovativi mediante soluzioni biotecnologiche, impiantistiche e tecnologiche"2011-2015 (**partecipation**)

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| ***No of Publications 61*** research manuscripts printed in national and international journals.<br>**41**and **54** proceedings in International and National Congresses | **H-Index: 16 (Scopus)** |

***Patents***

**Project evaluation & Referee activities** ***(Max. 300 characters including spaces)***

Project evaluation: Agencie Nationale de la Researche (France) 2008/14..Referee: Food Chem. Toxicol., Cytometry, Mycopathologia, Toxicology, Reprod. Biol. Endocrinol., Toxicol. Lett., Toxicol in vitro, W.M.J., Toxins, J.Toxicol. Environ. Health, Toxicon, J.Agricul. Sci. Technol..

***Other*** ***(Max. 300 characters including spaces)***

Member of Società Italiana di Tossicologia in vitro (Cell-Tox)
Member of European Society of Toxicology in vitro (ESTIV)
Member of International Society for Mycotoxicology (ISM)
Member of Group of Polyphenols
CNR delegate of FAO collaboration with three research Institutions on Food and Nutrition

***Awards and other recognitions***

***Publications of the last 10 years***

Monaci L., Garbetta A., De Angelis E., Visconti A. and Minervini.F. 2015. Assessment of toxic potential of mycotoxin contaminated bread during *in vitro* human digestion on human B lymphoid cell line. Toxicology Letters 232 :106–112

Bellis P., Minervini F., Di Biase M., Valerio F., Lavermicocca P., Sisto A. 2015. Toxigenic potential and heat survival of spore-forming bacteria isolated from bread and ingredients. International Journal of Food Microbiology 197:30-39.

Laddomada B., Durante M., Minervini F., Garbetta A., Cardinali A., D'Antuono I., Caretto S., Blanco A., Mita G. 2015. Phytochemical composition and anti-inflammatory activity of extracts from the whole-meal flour of Italian durum wheat cultivars. International Journal of Molecular Sciences, 16, 3512-3527.

A. Garbetta , L. Debellis, A. De Girolamo, R. Schena, A. Visconti, F. Minervini. 2015. Dose-dependent lipid peroxidation induction on ex vivo intestine tracts exposed to chyme samples from fumonisins contaminated corn samples. Toxicology in Vitro 29 (2015) 1140–1145.

Rutigliano L, Valentini L, Martino N A, Pizzi F, Zanghì A, Dell'Aquila M E, Minervini F.2015. Ochratoxin A at low concentrations inhibits in vitro growth of canine umbilical cord matrix mesenchymal stem cells through oxidative chromatin and DNA damage. Reproductive toxicology ( in press).

D'Antuono I, Garbetta A., Linsalata V., Minervini F., Cardinali A. 2015. Polyphenols from artichoke heads (*Cynara cardunculus* (L.) *subsp.Scolymus* Hayek): *in vitro* bioaccessibility, intestinal uptake and bioavailability. Food and Function 6:1268-1277

D'Imperio M., Cardinali A., D'Antuono I., Linsalata V., Minervini F., Redan BW., Ferruzzi MG. 2014. Stability-activity of verbascoside, a known antioxidant compound, at different pH conditions. Food Research international 66: 373-378

Garbetta A., Capotorto I. Cardinali A. D'Antuono I., Linsalata V., Pizzi F., Minervini F. 2014.Antioxidant activity induced by main polyphenols present in edible artichoke heads: influence of in vitro gastro-intestinal digestion. Journal of Functional Foods 10: 456-464.

Minervini F., Debellis L, Garbetta A., De Girolamo A., Schena R., Portincasa P., Visconti A. (2014). Influence on functional parameters of intestinal tract induced by short-term exposure to fumonisins contaminated corn chyme samples. Food and Chemical Toxicology 66:166-172.

Dell'Aquila ME, Bogliolo L, Russo R, Martino NA, Filioli Uranio M, Ariu F, Amati F, Sardanelli AM, Linsalata V, Ferruzzi M, Cardinali A, Minervini F. 2013. Pro-oxidant effects of verbascoside, a bioactive compound from olive oil mill wastewater, on in vitro developmental potential of ovine prepubertal oocytes and bioenergetics/oxidative stress parameters of fresh and vitrified oocytes. Biomedical Research International – Toxicology Section Special Issue: Pro-oxidant Mechanisms in Toxicology http://dx.doi.org/10.1155/2014/878062;

Filannino A., Stout TAE., Gadella BM., Sostarci E., Pizzi F., Colenbrander B., Dell'Aquila ME.,

Minervini F., 2011. Dose-response effects of estrogenic mycotoxins (zearalenone, alpha and beta-zearalenol) on motility, hyperactivation and the acrosome reaction of stallion sperm. Reproductive Biology and Endocrinology 9:134-144.

Minervini F. Lacalandra GM., Filannino A., Nicassio M., Visconti A., Dell'Aquila ME.2010 Effects of in vitro exposure to natural levels of zearalenone and its derivatives on chromatin structure stability (SCSA) in equine spermatozoa. Theriogenology 73:392-403.

Minervini F., Lacalandra GM., Filannino A., Garbetta A., Nicassio M., Dell'Aquila ME., Visconti A. (2010). Toxic effects induced by mycotoxin fumonisin B1 on equine spermatozoa: assessment of viability, sperm chromatin structure stability, ROS production and motility. Toxicology in vitro 24:2072-2078.

Minervini F., Dell'Aquila ME. 2008. Zearalenone and reproductive function in farm animals. International Journal of Molecular Sciences 9:2570-2584.

Vernile P., Fornelli F., Bari G., Spagnolo M., Minervini F., De Lillo E., Ruggiero P.(2007). Bioavailability and toxicity of pentachlorophenol in contaminated soil evaluated on coelomocytes of *Eisenia Andrei* (Annelida : Lumbricidae). Toxicology in vitro n. 21: 302-307.

Minervini F., Fornelli F. Lucivero G., Romano C., Visconti A.(2005). T-2 toxin immunotoxicity on human B and T lymphoid cell lines. Toxicology May 15; 210 (1): 81-91.