

## SHORT CV AND SELECTED PUBLICATIONS

### CONTACT INFORMATION

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### EDUCATION

1992 – Long cycle Degree in Veterinary Medicine ( University of Pisa)  
1997 - Post Degree Specialization School in Animal Origin Food Inspection (3 Years/University of Pisa, equivalent to PhD in Health sector)

### CAREER

**2017- present:** Founder and Partner: *Safety Ltd.- Exploring Food Safety Technologies*. Academic Spin Off (University of Pisa)  
**2015-present:** Full Professor of Food Inspection  
**2006 - 2015:** Associate Professor of Food Inspection  
**2017-present:** Director of the Specialization School in Food Inspection  
**2010 – 2016:** Vice President for Internationalization at the University of Pisa  
**2010 -2014** President of the International Ph.D. Program in “Inspective and Sanitary Concerns in Animal Production in Exchanges between the European Union and the People’s Republic of China  
**2010 – present:** Adjunct Professor at the Guangxi University, Nanning (PRC)  
**2010 – present:** Responsible of the Food safety sector of the International School of Health Management of the Tuscany Region  
**2009 – present:** Director of the Sino Italian Center for Food Safety (CSISA) Cooperation between Tuscany Region and Guangxi Province, within the national program of cultural exchanges with emerging Countries (China).  
**2008-present:** Consultant for Italian Ministry of Foreign Affair (MAE), General Direction to development Cooperation (DGCS)  
**2004 - present** Head of the laboratory of biotechnology applied to food inspection  
**2002 -** Visiting professor: Laboratory of Molecular Growth Regulation Section on Molecular Genetics of Immunity, National Institute of Health, Bethesda, USA  
**1998-2005** assistant professor at the Department of Animal Pathology, Prophylaxis and Food Hygiene, Faculty of Veterinary Medicine, University of Pisa in the sector of food inspection

**1993 -1998** research contract at National Council of Research, Institute of Mutagenesis and Differentiation (now Institute of Biomedical Technologies), Pisa, Italy

## **TEACHING ACTIVITIES**

- From 2002 to 2007, “Biotechnology applied to food inspection” and “Food hygiene and technology”, at the Faculty of Veterinary Medicine of the University of Pisa.
- From 2008 on: course of “Hygiene, industry, inspection, quality control and certification of food of animal origin, at the Faculty of Veterinary Medicine of the University of Pisa.
- From 2007 in PhD School of Veterinary Science and in the Specialization School of Animal Origin Food Inspection

## **Coordination of Main Research Projects**

**2001-2002:** current research project, funded by the Ministry of Health: “Development of analytical methods for the control of treatments with recombinant somatotropin in dairy cattle”

**2004:** current research project, funded by the Ministry of Health: “Proteomic and molecular study for the identification of diagnostic targets for the control of treatments with recombinant somatotropin in dairy cattle”

**2005:** current research project, funded by the Ministry of Health: "Evaluation of some direct and indirect indicators *of animal welfare in the breeding of beef bullocks and dairy cattle*"

**2004-2008:** Italian Ministry of Foreign Affairs (DCGS), “requalification of the Faculty of Veterinary Medicine of Quinchai Province, in People’s Republic of China

**2007-2008:** current research project, funded by Ministry of Health: “Development of methods of identification of treatments with somatotropin in dairy buffalos”

**2008-2011:** Research funded by the Regional Department of Health: “improvement of the food safety standards in the Chinese Prato Community”

**2009-2012** Ministry of Education/Ministry of Foreign Affair/ Guangxy Government: “Requalification of food safety organization system of Guangxy Province (PRC)”

**2013-2015:** current research project, funded by the Ministry of Health “Development of educational strategies for multiethnic food markets”

**2013-2017:** Structural Measures Tempus Project: Enhancing Public Health Learning and Teaching in Higher Education Institutions of the Republic of Uzbekistan

## **Refereeing:**

Referee for national and international Scientific Journals. ACS Publication Awards in 2011.

Referee for Research Project for the National Council of Research, Ministry of Health, Ministry of Education and Research, Ministry of Agriculture

## Invited Speaker and Lecturer

In National and International Conferences and National and International Universities and Research Centers.

## SELECTED PUBLICATIONS

### International Journals

- **Guidi A.**, Castigliego L., Anichini L., Gianfaldoni D. *Low cost biosensors: an inspective application*. Vet. Res. Commun., 2003 Suppl 1:307-10.
- **Guidi A.**, Castigliego L., Preziuso S., Gianfaldoni D., Gaspari P., Del Bono G., *Immunological and histochemical investigation on darkened turkey muscles*. Vet. Res. Commun., 2003 Suppl 1:687-90.
- **Guidi A.**, Castigliego L., Gianfaldoni D. *Biosensori per il controllo degli alimenti*. Industrie Alimentari. 2003, 42: 465-471.
- **Guidi A.**, Iannone G., Castigliego L., Gianfaldoni D., *Immunodiscrimination between native and recombinant somatotropin: a possible pathway?*, Vet. Res. Commun., 2004, Suppl 1:193-6.
- **Guidi A.**, Castigliego L., Benini O., Armani A., Iannone G., Gianfaldoni D. *Biochemical Survey on Episodic Localized Darkening in Turkey Deboned Thigh Meat Packaged in Modified Atmosphere*. Poultry Science, 2006, 85:787-793.
- Castigliego L., Iannone G., Grifoni G., Rosati R., Gianfaldoni D., **Guidi A.** *Natural and recombinant bovine somatotropin: immunodetection with a sandwich ELISA*. J. Dairy Res., 2007, 74:79-85.
- **Guidi A.**, Castigliego L., Iannone G., Armani A., Gianfaldoni D. *An immunoenzymatic method to measure igf-1 in milk*. Vet. Res. Commun., 2007. 31 (Suppl. 1), 373–376.
- Castigliego L, Grifoni G, Rosati R, Iannone G, Armani A, Gianfaldoni D, **Guidi A.** *On the alterations in serum concentration of somatotropin and insuline-like growth factor 1 in lactating cows after the treatment with a little studied recombinant bovine somatotropin*. Res. Vet. Sci. 2009, 87:29-35.
- **Guidi A.**, Armani A, Castigliego L, Pancrazi M, Grifoni G, Rosati R, Mazzi M, Borghese A, Gianfaldoni D. *Alteration of gene expression in muscle tissue and mammary gland from recombinant somatotropin treated animals: searching for biomarkers*. Vet Res Commun. 2009 Sep;33 Suppl 1:233-5
- **Guidi A.**, Armani A, Castigliego L, Li XN, Fanzone F, Fusco S, Facibeni E, Gianfaldoni D. *Labeling of ethnic food in the Prato Chinese community*. Vet Res Commun. 2010 Jun;34 Suppl 1:S163-6.
- Castigliego L, Armani A, Grifoni G, Rosati R, Mazzi M, Gianfaldoni D, **Guidi A.** *Effects of growth hormone treatment on the expression of somatotropic axis genes in the skeletal muscle of lactating Holstein cows*. Domest Anim Endocrinol. 2010, 39:40-53.
- Castigliego L, Armani A, Li X, Grifoni G, Gianfaldoni D, **Guidi A.** *Selecting reference genes in the white blood cells of buffalos treated with recombinant growth hormone*. Anal Biochem. 2010, 403:120-122.
- Armani A, Castigliego L., Tinacci L., Gianfaldoni D, **Guidi A.** *Molecular characterization of icefish, (Salangidae family), using direct sequencing of mitochondrial cytochrome b gene*. Food Contr., 2011, 22:888-895.
- Castigliego L., Li X., Armani A., Mazzi M., **Guidi A.** *An immunoenzymatic assay to measure IGF-1 in buffalo milk with a IGFBPs blocking pre-treatment of the sample* Int. Dairy J., 2011, 21:421-426.
- Castigliego L, Li XN, Armani A, Grifoni G, Boselli C, Rosati R, Gianfaldoni D, **Guidi A.** *Hormone variations in serum and milk of buffaloes (Bubalus bubalis) as potential indicators of treatment with recombinant bovine somatotropin*. J Dairy Res. 2011 Nov;78(4):412-20. Epub 2011 Aug 16.
- Castigliego L, Li XN, Armani A, Razzano M, Mazzi M, Rosati R, Gianfaldoni D, **Guidi A.** *Somatotropic gene response to recombinant growth hormone treatment in buffalo leucocytes*. Biol Chem. 2011 Dec;392(12):1145-54.
- Armani A., Castigliego L., Tinacci L., Gianfaldoni D., **Guidi A.** *Multiplex conventional and real-time PCR for fish species identification of Bianchetto(juvenile form of Sardina pilchardus), Rossetto (Aphia minuta), and Icefish in fresh, marinated and cooked products*. Food Chemistry. 133 (1): 184-192 (2012).
- Armani A., D'Amico P., Castigliego L., Sheng G., Gianfaldoni D., **Guidi A.** *"Mislabeling of an "unlabelable" seafood sold on the European market: the jellyfish"*, Food Control. 26 (2012), pp. 247-251.
- Armani A., Castigliego L., Tinacci L., Gandini G., Gianfaldoni D., **Guidi A.** *"A rapid PCR-RFLP method for the identification of Lophius species"*, European Food Research and Technology 235 (2): 253-263 (2012).

- Imbimbo, P., Castiglione, L., Armani, A., Biolatti, B., Cannizzo, F.T., Gianfaldoni, D., **Guidi, A.** A histologic study on growth promoter target organs of slaughtered beef in Molise Region (Italy). *Journal of Veterinary Medical Science* 74 (2012), pp. 1253-1259
- Armani, A., Castiglione, L., **Guidi, A.** Fish frauds: The DNA challenge. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 7, (2012) art. no. 67.
- D'Amico P., Armani A., Castiglione L., Sheng G., Gianfaldoni D., **Guidi A.** Seafood traceability issues in Chinese food business activities in the light of the European provisions. *Food Control*. **2014**, 35:7-13.
- Armani A., Tinacci L., Xiong X., Titarenko E., **Guidi A.**, Castiglione L. Development of a Simple and Cost-Effective Bead-Milling Method for DNA Extraction from Fish Muscles. *Food Anal. Methods*. **2014**, 7:946–95
- D'Amico P., Malandra R., Costanzo F., Castiglione L., **Guidi A.**, Gianfaldoni D., Armani A. Evolution of the Anisakis risk management in the European and Italian context. *Food Res Int* **2014**, 64:348-362.
- Armani A. , Giusti A., Castiglione L., Rossi A., Tinacci L., Gianfaldoni D., **Guidi A.** Pentaplex PCR as screening assay for jellyfish species identification in food products. *J Agric Food Chem*. **2014**, 62:12134-12143.
- Castiglione L., Armani A., Tinacci L., Gianfaldoni D., **Guidi A.** Two alternative multiplex PCRs for identification of the seven species of anglerfish (*Lophius* spp) using an end point or a melting curve analysis real-time protocol. *Food Chem.*, **2015**, 166:1-9.
- Armani A. , Tinacci L., Xiong X., Castiglione L., Gianfaldoni D., **Guidi A.** Fish species identification in canned pet food by BLAST and Forensically Informative Nucleotide Sequencing (FINS) analysis of short fragments of the mitochondrial 16s ribosomal RNA gene (16S rRNA). *Food Control*. **2015**, 50:821-830
- Armani A., Guardone L., Castiglione L., D'Amico P., Messina A., Malandra R., Gianfaldoni D., **Guidi A.** DNA and Mini-DNA barcoding for the identification of Porgies species (family Sparidae) of commercial interest on the international market. *Food Control*. **2015**, 50:589-596.
- Armani A., Guardone L., La Castellana R., Gianfaldoni D., **Guidi A.**, Castiglione L. DNA barcoding reveals commercial and health issues in ethnic seafood sold on the Italian market. *Food Control* In press
- Serum responsiveness to recombinant bovine somatotropin in buffalo: a three-month lactation study using an acid-stripping ELISA for screening.
- Castiglione L, Tinacci L, Armani A, Boselli C, Grifoni G, Mazzi M, **Guidi A.** *Drug Test Anal.* 2016 Jun 14. doi: 10.1002/dta.1994. A LC-MS-MS method to detect recombinant bovine somatotropin misuse in buffalos.
- Castiglione L, Armani A, Grifoni G, Mazzi M, Boselli C, **Guidi A**, Donzelli R, Saba A. *Anal Bioanal Chem.* 2016 Jul;408(18):4917-26. doi: 10.1007/s00216-016-9578-9 A Conventional Multiplex PCR Assay for the Detection of Toxic Gemfish Species (*Ruvettus pretiosus* and *Lepidocybium flavobrunneum*): A Simple Method To Combat Health Frauds.
- Giusti A, Castiglione L, Rubino R, Gianfaldoni D, **Guidi A**, Armani A. *J Agric Food Chem.* 2016 Feb 3;64(4):960-8. doi: 10.1021/acs.jafc.5b04899

## Books

- **Guidi A.**, Iannone G., Castiglione L., Gianfaldoni D. *A non-extractive SPR-based biosensor assay for IGF-1 in bovine serum*. *Sensors and Microsystems*, pag. 239-243, ed. World Scientific, Singapore, 2002.
- **Guidi A.**, Armani A., Castiglione L. *Diagnostica analitica degli alimenti in igiene e tecnologie degli alimenti di origine animale*, in: Colavita G., *Igiene e tecnologie degli alimenti di origine animale*, Ed. Point Veterinarie Italie, 2008. pp 329, 359.
- **Guidi A.**, Castiglione L. *Poultry meat color*; in Hui H., *Handbook of Poultry Science and Technology*, 2010 vol 1 & 2, pp 198, 218, vol 2. Ed. Wiley, N.J. (USA).
- Castiglione L., Armani A., **Guidi A.**, *Meat color*; in Hui H., *Handbook of Meat and Meat Processing*, second Edition, 2010, pp 81-106, CRC Press, Boca Raton, Florida (USA).