

PRESENT POSITION

Associate professor at the Department of Veterinary Sciences (SSD: VET/04), University of Turin, Italy.

EDUCATION

- Degree in Veterinary Medicine, Faculty of Veterinary Medicine at the University of Teramo, Italy, 2005; Thesis Title: "Virulence properties and biofilm formation of *Listeria monocytogenes* isolates from the food industry"
- Specialist in Inspection of Food of Animal Origin, Department of Veterinary Medicine and Animal Productions, University of Naples, Italy, 2009; Thesis Title: "Emerging pathogens transmitted by bivalve"
- Ph.D. in Animal Production, Veterinary Biotechnologies, Food Quality and Safety, Department of Animal Production, Veterinary Biotechnologies, Food Quality and Safety, University of Parma, Italy, 2012; Thesis Title: "Effect of gaseous ozone on food-borne pathogens"

PROFESSIONAL EXPERIENCE

- 6/2018 – present: Researcher/Assistant Professor at the Department of Veterinary Sciences, University of Turin, Italy.
- 3/2012 – 5/2018: PDC carried out research activities at the Department of Food and Drug, University of Parma, Italy as post-doc fellow, grant holder and as research assistant.
- 6/2012 - 06/2016: during these years, PDC attended several European training schools and short scientific missions such as "Biofilm Techniques for Food Research" at Technical University of Denmark (DTU); "Advanced techniques to study food-biofilms" at University of Minho, Portugal (2014); "(Novel) Physical intervention technologies for controlling food stability" at University of Malta, Msida, Malta (2015). "Study of biofilm formation linked to genetically well characterized *S.aureus* subtypes" at Agroscope Bern, Switzerland (2016).
- 6/2012 - 06/2016: PDC was the Italian substitute member in the COST ACTION FA1202: "A European Network for Mitigating Bacterial Colonisation and Persistence on Foods and Food Processing Environments" (BacFoodNet).
- 9/2010 – 2/2011: Visiting Scientist in the Microbiology Laboratory at the Center for Meat Safety & Quality, Department of Animal Sciences of Colorado State University, USA.
- 1/2009 – 3/2012: Ph.D. student at Department of Animal Production, Veterinary Biotechnologies, Food Quality and Safety, University of Parma, Italy.

INSTITUTIONAL RESPONSIBILITIES

- 01/2016 – 23/06/2016: member in the Scientific & Organizing Committee of the European Cost Meeting FA1202 entitled "*Biofilm formation and persistence of food-borne pathogens in the food environment*" at University of Parma.
- 10/2018 – present: responsible of the Teaching Slaughterhouse at the Department of Veterinary Sciences, University of Turin.
- 05/2019 – present: reference contact person of the Department of Veterinary Sciences, University of Turin which may assist the European Food Safety Authority (EFSA) with its mission (under Article 36 of the Regulation EC 178/2002).
- 01/2020 – present: member in the Scientific & Organizing Committee of the 74th national Congress of the Italian Society of Veterinary Sciences (www.sisvet.it)
- 04/2020 – present: reference contact person of the Department of Veterinary Sciences in the network of the Agency for the Promotion of European Research (APRE).
- 12/2020- present: member in the Scientific & Organizing Committee of the 30th national Congress of the Italian Association of Veterinary Food Hygienists (AIVI) (www.aivi.it)

FUNDING and PROJECTS/AGREEMENTS RESPONSIBILITY

- from 6/2020 – to date: Principal Investigator of project ex60% of the University of Turin entitled: "Studio dell'impiego dell'ozono gassoso come sanificante degli ambienti di produzione degli alimenti".

PROJECTS, CONTRACTS and AGREEMENTS PARTICIPATION

PDC has been involved in more than 10 international and national research projects. In specific, he worked in the following research projects:

- 2004: Project participant - Ricerca di interesse Nazionale (PRIN) MIUR: "Identificazione e caratterizzazione di microrganismi patogeni autoctoni e alloctoni nella filiera dell'itticoltura marini".
- 2007: Project participant - Ricerca di interesse Nazionale (PRIN) MIUR: "Effetto del trattamento di decontaminazione con ozono sui microrganismi patogeni isolati da prodotti avicole e da ambienti di lavorazione".
- 2008: Project participant - Ricerca Corrente IZS PLV: "Sopravvivenza e meccanismi di resistenza di ceppi di *Staphylococcus aureus* isolati da alimenti e da ambienti di lavorazione nella filiera agroalimentare".
- 2011: Project participant - Ricerca Corrente IZS PLV: "*Staphylococcus aureus* isolati da alimenti e da ambienti di lavorazione nella filiera agroalimentare e formazione di biofilm".
- 2011: Project participant - European Project: "Electrical impedance-based system to monitor drying process in sausages" (DRYCHECK) – FP7 – SME (http://cordis.europa.eu/project/rcn/100172_en.html).
- 2013: Research grant with Jalo's Bnc Catalonia S.r.l. di Fonte Nuova (Roma), dal titolo "Valutazione delle performance di film plastici funzionalizzati sulle caratteristiche qualitative e sanitarie di prodotti ittici", presso il Dipartimento di Scienze degli Alimenti.
- 2015: Project participant - Italian Ministry of Health: "Valutazione dei due modelli nazionali di macellazione dei suini ai fini della modernizzazione dell'ispezione delle carni".
- 2017: Project participant - Italian Ministry of Health: "CLASSYFARM".
- 2018: Project participant - European Project: "Veterinary Validation of Point-of-Care Detection Instrument" (VIVALDI) - Horizon 2020 (http://cordis.europa.eu/project/rcn/212396_en.html).
- 2018: Project participant - Italian Ministry of Health : "CLASSYFARM"
- 2019: Project participant - Regione Piemonte: "Tecnologie e soluzioni innovative al servizio della filiera latte piemontese per promuoverne la competitività e la sostenibilità" (TECH4MILK).
- 2020: Project participant - Italian Ministry of Health: "CLASSYFARM".

PARTICIPATION TO EVALUATION BOARDS

-from 2018 to date; member of various examination boards for the selection of personnel like postdoc positions, assistant researchers, grant holders, specialization school etc. at the Department of Veterinary Sciences, University of Turin, Italy.

INVITED TALKS AND LECTURES

PDC has given more than 10 invited talks or lectures at national or international scientific congresses or meetings, training courses, and scientific institutions over the past 10 years:

- 2012 in the Conference of the Scientific Committee of the European Hygienic Engineering and Design Group (EHEDG); oral presentation entitled: "Action of gaseous ozone on biofilm formation on stainless steel by *Staphylococcus aureus* and *Listeria monocytogenes* strains", Valencia, Spagna.
- 2013, in the Conference of the European Federation of Food Science and Technology (EFFoST); oral presentation entitled: "Biofilm formation by *Staphylococcus aureus*: relationship with temperature, food-contact surface and hydrophobicity" come presentazione orale alla conferenza internazionale che si è tenuta a Bologna, Italia.
- 2016, in the Scientific Committee of the Biofilm 7 Conference; oral presentation entitled: "Comparative proteomics of different strains *Staphylococcus aureus* in planktonic and biofilm cultures", Porto, Portogallo.
- 2019, in the IAFP'S European Symposium on Food Safety; oral presentation entitled: "Survival of *Listeria monocytogenes* in Food Residues on Packaging Materials for Dairy Products", Nantes, Francia.
- 2019, in the Conference of the European Federation of Food Science and Technology (EFFoST); oral presentation entitled: "Genetic determinants associated with biofilm formation of *Listeria monocytogenes* from food and food processing environment" Rotterdam, Olanda.
- Ecc.

MENTORSHIP

PDC has supervised more than 10-degree thesis at University of Parma and University of Torino.

PARTICIPATION IN EDITORIAL COMMITTEES/BOARDS OPPURE "EDITORIAL ACTIVITIES"

- from 12/2019 to 9/2020: *Guest Editor* in "Bioactive Natural Products" (*Special Issue*) pubblicato in *BioMed Research International* (impact factor: 2.276).

- from 12/2019 to 9/2020: *Guest Editor* in Antibiotics of Special Issue "Antimicrobial-resistance of Food-borne Pathogens" (impact factor: 3.893).

TEACHING

he has taught in University of Parma (2012-2018) and University of Turin (2018-2021)

AWARDS AND QUALIFICATION

PDC has obtained the positive assessment described in paragraph 5 of Article 24 of Law 240/2010 to function as associate professor in Italian Universities in 2018 for SC 07/H2 – S.S.D.: Vet/04.

2014: the best poster/presentation entitled: "Prevalenza del virus dell'epatite E in cinghiali selvatici delle Alpi Marittime in Provincia di Imperia (Liguria-Italia)", 32emes Rencontres du Groupe d'Etude sur l'Echopathologie de la Faune Sauvage de Montagne (GEEFSM), Olivone Val Blenio, Tessin, Suisse (6 – 8 Giugno 2014).

SCIENTIFIC INTERESTS

My technical qualifications include study and experience with food microbiology, food hygiene, meat and fish products. My research interests focus on (i) monitoring microorganisms and their behavior in foods by application of standard and molecular techniques, (ii) enhancement of safety and quality of foods (e.g. use of natural antimicrobials, packaging ecc.), (iv) biofilm formation on biotic and abiotic surfaces and methods development for biofilm decontamination. Moreover, during these years, PDC has been established several international research collaborations:

- Agroscope, Bern, Switzerland;
- Agricultural University of Athens, Greece;
- University of Copenhagen, Denmark
- University of Minho, Portugal
- University of Malta, Msida, Malta
- Aarhus University, Denmark
- Ecc.