

CURRICULUM VITAE

Gina Cecilia PISTOL

Date Personale

Data si locul nasterii: 1.05.1975, Calarasi, Calarasi

Nationalitatea: Romana

Stare civila: casatorita

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Studii efectuate si diplome obtinute:

1998-2002: Universitatea din Bucuresti, Facultatea de Biologie, Profilul Biochimie.

2002: Diploma de absolvire "Curs de Imunologie Fundamentala", INCDMI Cantacuzino, Bucuresti, Romania.

2002-2004: Universitatea din Bucuresti, Facultatea de Biologie, Master in Biochimie si Biologie Moleculara .

2010: Academia Romana, Bucuresti - Titlul de Doctor in Stiinte Medicale (Teza de Doctorat intitulata "*Defecte celulare si moleculare in boli autoimune de tesut vasculo-conjunctiv*")

2011 -2013: POSDRU/81/3.2/S/55362 "*Program de instruire a resurselor umne din domeniul biomedical si biotehlogic*" – Universitatea din Bucuresti, Facultatea de Biologie.

Alte specializari:

2013: **Training Course** „Presenting Scientific Content Professionally”, Bucuresti.

2011: **Summer Course** „Farming systems and welfare farm animals”, Balotesti.

2011: **Summer course** „Marker assisted selection in animal breeding”, Balotesti.

2009: **Seminar de Culturi Celulare**, LGC Standards, Bucuresti, Romania.

2002: **Curs de Imunologie Fundamentala**, Institutul Cantacuzino, Bucuresti.

Experienta profesionala si locurile de munca:

2015- prezent – cercetator stiintific gradul II, implicat in studii de imunonutritie cu privire la efectele compusilor bioactivi din diferite subproduse (reziduuri) si/sau contaminantilor alimentari de tipul micotoxinelor asupra raspunsului imun local si sistemic, in special asupra modularii proceselor inflamatorii - Institutul National de Cercetare-Dezvoltare pentru Biologie si Nutritie Animala -IBNA Balotesti, Romania, Laboratorul de Biologie Animala;

2010-prezent: coordonator al Compartimentului de Biologie Moleculara din IBNA Balotesti

2010- 2015 – cercetator stiintific gradul III, implicat in studii de imunonutritie cu privire la efectele compusilor bioactivi din diferite subproduse (reziduuri) si/sau contaminantilor alimentari de tipul micotoxinelor asupra raspunsului imun local si sistemic, in special asupra modularii proceselor inflamatorii - Institutul National de Cercetare-Dezvoltare pentru Biologie si Nutritie Animala -IBNA Balotesti, Romania, Laboratorul de Biologie Animala;

2005 –2010 - cercetator stiintific implicat in studii focusate asupra defectelor celulare si molecular asociate cu inflamatia in boli autoimune umane – Laboratorul Receptori Celulari, INCDMI Cantacuzino, Bucuresti, Romania;

2002- 2005 – Asistent de cercetare implicat in dezvoltarea tehnologiilor de obtinere a anticorpilor monoclonali, si in caracterizarea anticorpilor monoclonali - Laboratorul Anticorpi Monoclonali, INCDMI Cantacuzino, Bucuresti, Romania.

Evolutia profesionala: 2002: Biocimist, asistent de cercetare
 2005: Cercetator stiintific
 2008: Cercetator stiintific gradul III
 2015: Cercetator stiintific gradul II

Cercetari Post-Doctorale:

2012: STSM–COST Action FA0802(Feed for Health): *Studiul efectelor micotoxinelor asupra mecanismelor de transfer al IgG in cursul fatarii la vacile de lapte, cu implicatii directe asupra securitatii alimentare* - Vetsuisse Faculty, Departamentul de Fiziologie Veterinara, Universitatea din Berna, Elvetia.

2013: Researchers Exchange Programme, adresat tinerilor cercetatori (ESR), finantat prin European Project FP7 266061 (FOODSEG): “Utilizarea unei linii de celule epiteliale intestinale de origine porcina, IPEC, ca model *in vitro* pentru studiul efectelor nutrientilor la nivel intestinal” – Institutul de Nutritie Animala, Berlin, Germania.

2015: STSM (Short term scientific mission)–COST Action FA1401 (PigGutNet):
Mycotoxin effects on gastrointestinal health in pigs, using in vivo and in vitro systems - Institute of Animal Nutrition, Braunschweig, Germany.

PREMII

- Marie Curie grant for Translational Research in Paediatric Rheumatology (TRIPR) – Genoa, Italy, September 24 - 27, 2009
- MYRACE fellowship for 3th Meeting of Young Rheumatologists Across Europe – January 18 – 21 2007 – Reichenau, Austria
- MYRACE fellowship for 2nd Meeting of Young Rheumatologists Across Europe – January 20– 24 2006– Reichenau, Austria
- International symposium Iasi – premiul sectiunii Fundamental sciences in animal breeding -2015
- International symposium Iasi – premiul sectiunii Fundamental sciences in animal breeding -2016

Limbi straine cunoscute: Engleza (bine)

Domenii de competenta: imunonutritie; inflamatie; biologie moleculara; imunologie; biologie celulara, transmiterea intracelulara a semnalelor; imunochimie, biochimia proteinelor; programe de analiza bioinformatica; tehnologia anticorpilor monoclonali

Alte competente:

- Recenzor pentru reviste indexate ISI: *PlosONE; Ecotoxicology and Environmental Safety; Food Bioscience; The Journal of Nutrition; The Journal of Functional Foods; Nutrition, Metabolism & Cardiovascular Diseases; Toxicon; Food and Chemical Toxicology; Livestock Science*
- Competente de operare PC: Windows, Microsoft Office (Word, Excel, PowerPoint); Programe statistice pentru analiza datelor (WinMDi, STATS).
- Membru al Consiliul Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (2018-2020)
- Evaluator MCI pentru competitii nationale: PNIII-P1-1.1-TE/PD-2016; PN-III-P1-1.2-PCCDI-2017; PN-III-P1-1.1-MC-2018; PN-III-P1-1.1-MC-2019; PN-III-P1-1.1-MCD-2019; PN-III-CERC-CO-PTE-2-2019

Elemente definitorii ale principalelor realizări științifice

- **HIRSCH INDEX:** 15 (Google Scholar); 10 (Web of Science)
- **Numar de citari:** 628 (Google Scholar); 419 (Web of Science)

Lista celor mai importante publicații științifice:

Carti:

Marin D.E., Taranu I., **Pistol G.C.** *Metode de decontaminare a micotoxinelor.* 2014. ISBN 978-973-0-17830-2.

Publicatii in reviste cotate ISI (selectie):

1. **Pistol GC**, Marin DE, Rotar MC, Ropota M, Taranu I. Bioactive compounds from dietary whole grape seed meal improved colonic inflammation via inhibition of MAPKs and NF- κ B signaling in pigs with DSS induced colitis. *Journal of Functional Foods*, Volume 66, 2020, <https://doi.org/10.1016/j.jff.2019.103708>.
2. Grosu IA, **Pistol GC**, Marin DE, Cișmileanu A, Palade LM and Țăranu I (2020) Effects of Dietary Grape Seed Meal Bioactive Compounds on the Colonic Microbiota of Weaned Piglets With Dextran Sodium Sulfate-Induced Colitis Used as an Inflammatory Model. *Front. Vet. Sci.* 7:31. doi: 10.3389/fvets.2020.00031
3. Kessler EC, **Pistol GC**, Bruckmaier RM, Gross JJ., Pattern of milk yield and immunoglobulin concentration and factors associated with colostrum quality at the quarter level in dairy cows after parturition. *Dairy Sci.* 2020 Jan;103(1):965-971. doi: 10.3168/jds.2019-17283. Epub 2019 Oct 24.
4. Marin DE, Braicu C, Dumitrescu G, **Pistol GC**, Cojocneanu R, Neagoe IB, Taranu I., MicroRNA profiling in kidney in pigs fed ochratoxin A contaminated diet. *Ecotoxicol Environ Saf.* 2019 Nov 30;184:109637. doi: 10.1016/j.ecoenv.2019.109637.
5. Marin DE, **Pistol GC**, Bulgaru CV, Taranu I. Cytotoxic and inflammatory effects of individual and combined exposure of HepG2 cells to zearalenone and its metabolites. *Naunyn Schmiedebergs Arch Pharmacol.* 2019 Aug;392(8):937-947. doi: 10.1007/s00210-019-01644-z. Epub 2019 Mar 27.,
6. Palade LM, Habeanu M, Marin DE, Chedea VS, **Pistol GC**, Grosu IA, Gheorghe A, Ropota M, Taranu I., Effect of Dietary Hemp Seed on Oxidative Status in Sows during Late Gestation and Lactation and Their Offspring. *Animals (Basel).* 2019 Apr 25;9(4). pii: E194. doi: 10.3390/ani9040194
7. Taranu I, Marin DE, Palade M, **Pistol GC**, Chedea VS, Gras MA, Rotar C., Assessment of the efficacy of a grape seed waste in counteracting the changes induced by aflatoxin B1 contaminated diet on performance, plasma, liver and intestinal tissues of pigs after weaning. *Toxicon.* 2019 Apr 15;162:24-31. doi: 10.1016/j.toxicon.2019.02.020. Epub 2019 Mar 5.
8. Grosu IA, **Pistol GC**, Taranu I, Marin DE., The Impact of Dietary Grape Seed Meal on Healthy and Aflatoxin B1 Afflicted Microbiota of Pigs after Weaning. *Toxins (Basel).* 2019 Jan 8;11(1). pii: E25. doi: 10.3390/toxins11010025.
9. **Pistol GC**, Marin DE, Dragomir C, Taranu I., Synbiotic combination of prebiotic grape pomace extract and probiotic *Lactobacillus* sp. reduced important intestinal

- inflammatory markers and in-depth signalling mediators in lipopolysaccharide-treated Caco-2 cells. *Br J Nutr*. Volume 121, Issue 314 February 2019, pp. 291-305, doi: <https://doi.org/10.1017/S0007114518003410>
10. Marin DE, **Pistol GC**, Gras M, Palade M, Taranu I. A comparison between the effects of ochratoxin A and aristolochic acid on the inflammation and oxidative stress in the liver and kidney of weanling piglets. *Naunyn Schmiedebergs Arch Pharmacol*. 2018 Oct;391(10):1147-1156. doi: 10.1007/s00210-018-1538-9. Epub 2018 Jul 22
 11. Taranu I, Marin DE, Braicu C, **Pistol GC**, Sorescu I, Pruteanu LL, Berindan Neagoe I, Vodnar DC., In Vitro Transcriptome Response to a Mixture of Lactobacilli Strains in Intestinal Porcine Epithelial Cell Line. *Int J Mol Sci*. 2018 Jun 30;19(7). pii: E1923. doi: 10.3390/ijms19071923.
 12. Chedea VS, Palade LM, Marin DE, Pelmus RS, Habeanu M, Rotar MC, Gras MA, **Pistol GC**, Taranu I. Intestinal Absorption and Antioxidant Activity of Grape Pomace Polyphenols. *Nutrients*. 2018 May 9;10(5). pii: E588. doi: 10.3390/nu10050588.
 13. Taranu I, Nguyen T-T, Pham KD, Gras MA; **Pistol GC**, Marin DE, Rotar C, Habeanu M, Ho PH, Le TM, Bui TT-H, Mai DH, Chu-Ky S. Rice and Cassava Distillers Dried Grains in Vietnam: Nutritional Values and Effects of Their Dietary Inclusion on Blood Chemical Parameters and Immune Responses Growing Pigs. *Waste and Biomass Valorization* <https://doi.org/10.1007/s12649-018-0341-7>
 14. Marin DE, **Pistol GC**, Gras MA, Palade ML, Taranu I. Comparative effect of ochratoxin A on inflammation and oxidative stress parameters in gut and kidney of piglets. *Regul Toxicol Pharmacol*. 2017 Oct;89:224-231. doi: 10.1016/j.yrtph.2017.07.031. Epub 2017 Jul 29.
 15. Marin DE, Braicu C, Gras MA, **Pistol GC**, Petric RC, Berindan Neagoe I, Palade M, Taranu I. Low level of ochratoxin A affects genome-wide expression in kidney of pig. *Toxicon*. 2017 Sep 15;136:67-77. doi: 10.1016/j.toxicon.2017.07.004. Epub 2017 Jul 6.
 16. Taranu I, Habeanu M, Gras MA, **Pistol GC**, Lefter N, Palade M, Ropota M, Sanda Chedea V, Marin DE. Assessment of the effect of grape seed cake inclusion in the diet of healthy fattening-finishing pigs. *J Anim Physiol Anim Nutr (Berl)*. 2017 Mar 1. doi: 10.1111/jpn.12697.
 17. Chedea VS, Pelmus RS, Lazar C, **Pistol GC**, Calin LG, Toma SM, Dragomir C, Taranu I. Effects of a diet containing dried grape pomace on blood metabolites and milk composition of dairy cows. *J Sci Food Agric*. 2017 Jun;97(8):2516-2523. doi: 10.1002/jsfa.8068. Epub 2016 Nov 1.
 18. **Pistol GC**, Braicu C, Motiu M, Gras M A, Marin D E, Stancu M, Calin L, Israel-Roming F, Berindan-Neagoe I, Taranu I. Zearalenone mycotoxin affects immune mediators, MAPK signaling molecules, nuclear receptors and genome-wide gene expression in pig spleen. *PLoS One*. 2015 May 26;10(5):e0127503. doi: 10.1371/journal.pone.0127503. eCollection 2015.
 19. Taranu I, Marin DE, **Pistol GC**, Motiu M, Pelinescu D. Induction of pro-inflammatory gene expression by *Escherichia coli* and mycotoxin zearalenone contamination and protection by a *Lactobacillus* mixture in porcine IPEC-1 cells. *Toxicon*. 2015 Apr;97:53-63. doi: 10.1016/j.toxicon.2015.01.016. Epub 2015 Jan 29.
 20. Taranu I, Braicu C, Marin DE, **Pistol GC**, Motiu M, Balacescu L, Beridan Neagoe I, Burlacu R. Exposure to zearalenone mycotoxin alters in vitro porcine intestinal epithelial cells by differential gene expression. *Toxicol Lett*. 2014 Oct 23;232(1):310-325. doi: 10.1016/j.toxlet.2014.10.022.
 21. Banica LM, Besliu AN, **Pistol GC**, Stavaru C, Vlad V, Predeteanu D, Ionescu R, Stefanescu M, Matache C. Dysregulation of anergy-related factors involved in

- regulatory T cells defects in Systemic Lupus Erythematosus patients: Rapamycin and Vitamin D efficacy in restoring regulatory T cells. *Int J Rheum Dis.* 2014 Oct 28. doi: 10.1111/1756-185X.12509.
22. Taranu I, Gras M, **Pistol GC**, Motiu M, Marin DE, Lefter N, Ropota M, Habeanu M. ω -3 PUFA rich camelina oil by-products improve the systemic metabolism and spleen cell functions in fattening pigs. *PLoS One.* 2014 Oct 10;9(10):e110186. doi: 10.1371/journal.pone.0110186. eCollection 2014.
 23. **Pistol GC**, Gras MA, Marin DE, Israel-Roming F, Stancu M, Taranu I. Natural feed contaminant zearalenone decreases the expressions of important pro- and anti-inflammatory mediators and mitogen-activated protein kinase/NF- κ B signalling molecules in pigs. *Br J Nutr.* 2014 Feb;111(3):452-64. doi: 10.1017/S0007114513002675. Epub 2013 Aug 20.

Publicatii in reviste indexate in sistemul BDI (selectie):

1. Marin DE, Pistol GC, Dumitrescu G, Gras MA, Taranu I. Study of the role of aristolochic acid in triggering the porcine nephropathy. *Archiva Zootechnica*, 22 :1, 5-14, 2019.
2. Daniela Marin, **Gina Pistol**, M. Gras, C. Rotar, Ionelia Taranu ROLE OF PROBIOTICS IN COUNTERACTING THE EFFECT OF USUAL FEED CONTAMINANTS IN SWINE *Lucrări Științifice-Seria Zootehnie*, 2019, vol 72, pag 422-426
3. **Gina Cecilia Pistol**, L.M. Palade, Daniela Eliza Marin, Mariana Stancu, Ionelia Taranu THE EFFECT OF GRAPE WASTES, WINE INDUSTRY BYPRODUCTS, ON INFLAMMATORY AND ANTIOXIDANT BIOMARKERS IN POST-WEANING PIGLETS *Lucrări Științifice-Seria Zootehnie*, 2018, vol 71, pag 422-426
4. **Pistol GC** Improving the Animal Health Using Alternative Approaches in Farm Animals Feeding *J Vet Med Health* 2018, 2:2, e1
5. **Pistol G C**, Marin D E, Taranu I Polyphenol - enriched grape pomace extract and lactobacilli combination restores epithelial integrity in LPS-induced inflammation in intestinal Caco-2 cells *AISANH (2017)*, Vol. 5, Issue n°1, pages 41-44; doi: 10.18143/AISANH_v5i2_12
6. **Pistol GC** Natural Therapy for Treating Intestinal Inflammation in Farm Animals: Promises and Pitfalls *J Vet Med Health* 2017, 1: e004.
7. **Pistol GC**, Chedea V, Palade M.L, Marin D.E., Calin L., Stancu M., Taranu I. Use of high polyphenols grape seeds cakes to modulate the inflammatory status and piglet health during the post-weaning period. *Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie*, vol. 68, 2017
8. Taranu Ionelia, Mihaela Habeanu, M.A. Gras, **Gina Cecilia Pistol**, Nicoleta Lefter, M. Palade, Mariana Ropota, Veronica Sanda Chedea and Daniela E. Marin. Effect of xenobiotic compounds from grape waste on liver function and oxidative status in pigs. *Archiva Zootechnica* 2017, 20:2, 5-24
9. Marin Daniela Eliza, **Gina C. Pistol**, Ionelia Taranu. Effect of Ochratoxin A and Aristolochic Acid on a Porcine Kidney Cell Line. *Scientific Papers: Animal Science and Biotechnologies*, 2017, Vol 50, No 2, 11-15.
10. Chedea V. S., Pelmus R. S., Cismileanu A. E., **Pistol G. C.**, Palade L. M., Taranu Total polyphenols content, antioxidant activity and stability of a grape pomace incorporated in animal feed *Scientific Papers: Animal Science and Biotechnologies*, 2016, 49
11. Marin D. E., **Pistol G.C.**, Gras M., Motiu M., Taranu I. Effect of a diet contaminated with ochratoxin a at the highest level allowed by eu on the inflammation and the oxidative stress in the spleen of weaned piglets *Scientific Papers: Animal Science and Biotechnologies*, Timisoara, 2016, 49 (1)
12. **Gina Cecilia Pistol**, Daniela Eliza Marin, Ionelia Taranu. Effect of grape pomace extract enriched in polyphenols in counteracting intestinal inflammation by using an in vitro intestinal cellular model *Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie*, 2016, vol. 66.
13. Cristina Lazar, Al.M. Gras, M.C. Rotar, **Gina Cecilia Pistol**, Rodica Stefania Pelmus, Elena Ghiță Identification of Myostatin gene polymorphism using PCR-RFLP for improving carcass meat evaluation of Teleorman Black Head lambs *Animal Science and Biotechnologies letters*, 2016, 49, (1), 1-5.
14. Taranu Ionelia, **Pistol Gina**, Gras M.A., Motiu Monica, Marin Daniela, Stancu Mariana Investigation of zearalenone tolerance limit in the feedstuffs for weaned pigs *Lucrări Științifice - Seria Zootehnie*, Iasi 2015, pg. 1-5

15. D. E. Marin, **G.C. Pistol**, M.A. Gras, M. Motiu, I. Taranu Studies concerning the nephrotoxic effects of ochratoxin a using pig as a model. *Lucrări Științifice - Seria Zootehnie*, Iasi 2015 pg 333-337
16. Cristina Lazar, Al. M. Gras, M.C. Rotar, **Gina Cecilia Pistol**, Rodica Stefania Pelmus, Elena Ghiță Evaluation of meat quality in Teleorman Black head by ecographic method and Identification of calpastatin (cast) gene Polymorphism correlated with carcass Quality *Lucrări Științifice - Seria Zootehnie*, 2015, p. 141-146
17. Ionelia Taranu, Aurora Arghir, **Gina Pistol**, Daniela Marin, Ana-Maria Niculescu Effect of fusarium mycotoxin zearalenone on gut epithelium. *Buletin of University of Agricultural Sciences and Verinary Medicine Cluj-Napoca.*, 2014, Vol 71, No 2, 315-316.