Curriculum vitae Europass

Informaţii personale

Surname / Name	**TARANU Ionelia**
Gender	Female
Address	Balotesti, 1, Cl. Bucuresti, 077015, ROMANIA
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E-mail	Ionelia.taranu@ibna.ro
Nationality	Romanian
Data of birht	25.07.1959
Sex	feminin

Place of work

National Research & Development Institute for Biology and Animal Nutrition (INCDBNA-IBNA)

Work experience

Period	**2004-present**
Position	**Senior researcher, head of Animal Biology Laboratory, INCDBNA-IBNA, Balotesti**
Main activities and responsabilities	Expertise in the domains of animal nutrition and nutrition immunology: *Research focus on the impact of feed quality on animal health:* -Effect of feed contamination / co-contamination (mycotoxins, *pathogens*) on general health status and immune response (inflammation / cytokine network / cell signalling pathways / antibodies synthesis / oxidative stress) in farm animal (pig and poultry). -Effect of feed components (new and alternative sources) on immune response in monogastric animals (ppig and poultry).
Period	**2004-2001:**
Position	**Postdoctoral research felloships, Laboratory of Pharmacology –Toxicology, INRA, Toulouse, France** *(I.N.R.A., NATO, excelence felloships- Agence universitaire de la Francophonie, Europeen projects: FP6, FP5, ECO-NET, PECO/NEI)*
Main activities and responsabilities	*Research focus on the impact of feed quality on animal health:* -Effect of feed contaminants (mycotoxins) on cellular and humoral immune responses in pig.
Period	**2001-1986:**
Position	**Scientist Researcher (IIIrd and II^{ds} degree), Department of Animal Physiology, IBNA, Balotesti**
Main activities and responsabilities	*Research focus on the optimisation of dietary vitamin supplementation in farm animal (poultry and pig)* -Evaluation of the optimum level of dietary vitamin supplementation in relation with different environmental stress factors including heat and cold temperature in broiler chickens. -Identification and assessment of new, efficient and unppoluting sources of vitamins. -Estimation of biological biodysponibility of new sources of vitamins in monogastrics (poultry and pig).
Employer's name and locality	National Research Institute for Biology and Animal Nutrition, INCDBNA-IBNA, Balotesti, Cl. Bucuresti, 1, Balotesti, Ilfov, 077015, Romania; www.ibna.ro
Type of activity /work department	Research, Animal Biology Laboratory, INCDBNA-IBNA, Balotesti, Romania

Education and training

Period	**2002:**
Qualification / qualification award	Postuniversity Course of General Immunology. Course diploma
Education or training organisation's name and locality	Pasteur Institute, France Paris
Period	**1998:**
Qualification / qualification award	Ph.D. diploma
Education or training organisation's name and locality	Academy of Agricultural and Forestry Sciences, Bucharest, Romania. Subject: *Assessment of the optimum level of dietary vitamin supplementation in broiler. Correlation with environmental factors of stress, heat and cold temperature.*
Period	**1984**
Qualification / qualification award	Diploma of Bachelor of Science
Education or training organisation's name and locality	University of Bucharest, Faculty of Biology.

Personal skills

Mother tongue(s)	Romanian
Other languages	English-very good; French-very good
Organisational / managerial skills	Head of Animal Biology Laboratory, IBNA, Balotesti Romaania
Job-related skills	***-Cellular biology:*** cell culture (PBMC, tissue cells, stable cells lines: IPEC-1, LLCPK, Caco-2, Hepa G2) ***-Molecular biology****:* PCR, real time PCR, PCR data analysis ***-Immunoassay***: ELISA, Dot blot, Western blot ***-Protein biochemistry***: SDS-PAGE, Western blotting, Protein purification ***-Animal model****: in vitro* cellular model (human and porcine cells); *in vivo* pig model ***-Animal nutrition***
Computer skills	PC operation system: Windows'10; Microsoft World; Microsoft Excel; Power Point; Corel Quattro Pro 8; CellQuest and multimedia: Netscape, EndNote
Other skills	**International recognition:** **Expert EFSA (European Food Safety association) BIOCONTAM Panel** **Expert EU evaluator** (ID: EX2002B070822) for PC6, PC7 and H2020 (Food Safety and Quality) **Expert evaluator** (ID: G1065997) FTC-Portugal (the Portuguese Foundation for Science and Technology) **Expert evaluator** UEFISCDI –Romania **Expert evaluator** ANCSI-Romania **Expert evaluator** (ID: 0047390) Dutch Technology Foundation **Expert evaluator** National Science Centre-Polonia **Expert evaluator** Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO, Elvetia. **Member of the editorial board** of Archiva Zootechnica ***Member*** of the National Council for Scientific Research (Ministry og Education and Science) ***Assocaited member*** of Romanian Agriculture and Forestry Academy

Publications

Total	163
Books	5
Book chapters	3
Publications ISI	70
Publications BDI	40
Proceedings	20
Disemination articles	25

Hirsch index=26 and the total number of citations=2191 (Without self-citations) according with Web of Science.

the profile adress from, ORCID- **Ionelia Taranu ORCID iD;** https://orcid.org/0000-0003-0727-5827.

the profile adress from www.brainmap.ro. = https://www.brainmap.ro/ionelia-taranu

List of Selected Publications

Books

1. Marin D.E and Taranu I., 2022. The effect of Mycotoxins on Human an Animal Health. A special focus on the Cellular and Molecular Mechanism Responsible for Mycotoxin Toxicity. TOXINS. MDPI, Basel, Switzerland, ISSN 2072-6651, (co-editor and co-author).
2. Marin D.E., Pistol C.G., Taranu I., 2014. Metode de decontaminare a micotoxinelor. Ed. Inovative Media. ISBN 978-973-0-17830-2.
3. I.Taranu, D.E. Marin, C.Tabuc. 2009. Fungi and Mycotoxins. Effects of mycotoxins on pig. Ed. ARS Docendi Bucharest Univ. publisher, ISBN: 978-973-558-436-8.
4. I.Taranu. 2009. Dietary vitamin supplementation in accordance with different stress factors on broiler. 2009. Ed. Ars Academica, publisher, ISBN: ISBN: 978-606-8017-33-4.
5. Oswald I.P., I.Taranu. 2008. Mycotoxins in farm animals. Ed. Transworld Research Network publisher, ISBN: 978-81-7895-312-0, Trivandrum-695 023, KERALA (co-editor and co-author).

Book chapters

1. Marin D.E and Taranu I., 2023. Food and Feed Additives to Counteract Mycotoxin Toxicity in Human and Animals. Sustainable Use of Feed Additives in Livestock. Novel Ways for Animal Production. Ed. Springer. ISBN 978-3-031-42855-5 (eBook), https://doi.org/10.1007/978-3-031-42855-5_13.
2. Meissonnier G.E, Marin D.E., Galtier P., Bertin G., Taranu I., Oswald I.P. Modulation of the immune response by a group of fungal contaminants, the aflatoxins; în: Nutrition and Immunity. 2006. Research Signpost publisher. ISBN: 81-7736-251-8, Trivandrum-695023, KERALA, 149-156.
3. I.Taranu, D.E. Marin, S. Bouhet, F. Pascale, J.-D. Bailly and I.P. Oswald. In vivo and in vitro effect of Fumonisin B1 on cytokine production: implication for the immune response vaccination. În: Mycotoxins and phycotoxins. Advances in determination, toxicology and exposure management. 2006. Wageningen Academic Publishers, the Netherlands, IUPAC, AOAC International. ISBN: 10-90-8686-007-9, 157-167.

Articles in peer review journals (Selection)

1. -Daniela Eliza Marin and **Ionelia Taranu. 2023.** Using In Silico Approach for Metabolomic and Toxicity Prediction of Alternariol. ***Toxins*** **15**, 421. https://doi.org/10.3390.
2. -Gina Cecilia Pistol, Ana-Maria Pertea and **Ionelia Taranu. 2023.** The Use of Fruit and Vegetable By-Products as Enhancers of
3. Health Status of Piglets after Weaning: The Role of Bioactive Compounds from Apple and Carrot Industrial Wastes. ***Frontiers Vet. Sci.*** 11,15. https://doi.org/10.3390.
4. -Valeria Cristina Bulgaru, Ana Maria Pertea, Iulian Alexandru Grosu, Andrei Cristian Anghel, Gina Cecilia Pistol, Daniela Eliza Marin, Anca Dinischiotu and **Ionelia Taranu. 2023.** Effects and Underlying Mechanisms of Zearalenone Mycotoxin at Concentrations Close to the EC Recommendation on the Colon of Piglets after Weaning. ***Agriculture***, 13, 1372, https://doi.org/10.3390.
5. -Iulian Alexandru Grosu, Cristina Valeria Bulgaru, Gina Cecilia Pistol, Ana Cismileanu, Daniela Eliza Marin and **Ionelia Taranu. 2023.** Effects of Exposure to Low Zearalenone Concentrations Close to the EU Recommended Value on Weaned Piglets' Colon. ***Toxins*** 15, 206. https://doi.org/10.3390.
6. -Gina Cecilia Pistol, Daniela Eliza Marin, Valeria Cristina Bulgaru, Andrei Cristian Anghel, Mihaela Sărăcilă, Mihaela Vlassa, Miuta Filip, **Ionelia Taranu. 2023.** Grape seed meal by-product is able to counteract oxidative stress induced by lipopolysaccharide and dextran sulphate in IPEC cells and piglets after weaning. ***PloseOne***, e0283607. https://doi.org/10.1371/journal.pone.0283607.
7. -**Ionelia Taranu**, Gina Cecilia Pistol, Andrei Cristian Anghel, Daniela Marin and Cristina Bulgaru. **2022**. Yeast-Fermented Rapeseed Meal Extract Is Able to Reduce Inflammation and Oxidative Stress Caused by Escherichia coli Lipopolysaccharides and to Replace ZnO in Caco-2/HTX29 Co-Culture Cells. International Journal of Molecular Sciences, 23, 11640, 2-18. Doi: 10.3390/ijms231911640.
8. -Daniela Eliza Marin, Andrei Cristian Anghel, Cristina Valeria Bulgaru, Iulian Grosu, Gina Cecilia Pistol, Ana Elena Cismileanu and **Ionelia Taranu.** 2022. Agriculture, 12, 1142. https://doi.org/10.3390.
9. -Daniela Eliza Marin, Gina Cecilia Pistol, Cristina Valeria Procudin and **Ionelia Taranu. 2022.** Co-Contamination of Food and Feed with Mycotoxin and Bacteria and Possible Implications for Health, Agriculture 2022, 12, https://doi.org/10.3390.
10. -Mihaela Vlassa, Miut,a Filip, **Ionelia Taranu**, Daniela Marin, Arabela Elena Untea, Mariana Ropota, Catalin Dragomir and Mihaela Saracila. **2022**. Food, 11, 2972, https://doi.org/10.3390/foods11192972.
11. -**Taranu, I**, Marin, D, Pistol, G. C., Untea, A. Vlassa, M., Filip, M., Gras, M., (Rotar, C., 2022. Assessment of the ability of dietary yeast-fermented rapeseed meal to modulate inflammatory and oxidative stress in piglets after weaning. Journal of Animal and Feed Sciences, 31, 109-122.

12. -Bulgaru CV, Marin DE, Pistol GC, **Taranu I**. 2021. Zearalenone and the Immune Response. Toxins (Basel), 13(4):248. doi: 10.3390/toxins13040248.
13. -Pistol GC, Bulgaru CV, Marin DE, Oancea AG, **Taranu I**. 2021. Dietary Grape Seed Meal Bioactive Compounds Alleviate Epithelial Dysfunctions and Attenuates Inflammation in Colon of DSS-Treated Piglets. Foods, 10(3):530. doi: 10.3390/foods10030530.
14. -Popescu RG, Avramescu S, Marin DE, **Ţăranu I**, Georgescu SE, Dinischiotu A. 2021. The Reduction of the Combined Effects of Aflatoxin and Ochratoxin A in Piglet Livers and Kidneys by Dietary Antioxidants. Toxins (Basel). 2021 Sep 13;13(9):648. doi: 10.3390/toxins13090648.
15. -Popescu RG, Bulgaru C, Untea A, Vlassa M, Filip M, Hermenean A, Marin D, **Ţăranu I**, Georgescu SE, Dinischiotu A. 2021. The Effectiveness of Dietary Byproduct Antioxidants on Induced CYP Genes Expression and Histological Alteration in Piglets Liver and Kidney Fed with Aflatoxin B1 and Ochratoxin A. Toxins (Basel), 13(2):148. doi: 10.3390/toxins13020148.
16. -**Taranu I**, Hermenean A, Bulgaru C, Pistol GC, Ciceu A, Grosu IA, Marin DE. 2020. Diet containing grape seed meal by-product counteracts AFB1 toxicity in liver of pig after weaning. Ecotoxicol Environ Saf, 203:110899. doi: 10.1016/j.ecoenv.2020.110899. Epub 2020 Jul 16.
17. -Palade LM, Dore MI, Marin DE, Rotar MC, **Taranu I**. 2020. Assessment of Food By-Products' Potential for Simultaneous Binding of Aflatoxin B1 and Zearalenone. ***Toxins*** (Basel). 13(1):2. doi: 10.3390/toxins13010002.
18. -Marin DE, Bulgaru CV, Anghel CA, Pistol GC, Dore MI, Palade ML, **Taranu I**. 2020. Grape Seed Waste Counteracts Aflatoxin B1 Toxicity in Piglet Mesenteric Lymph Nodes. ***Toxins*** (Basel),12(12):800. doi: 10.3390/toxins12120800.
19. -Gina Cecilia Pistola, Daniela Eliza Marina, Mircea Catalin Rotar, Mariana Ropot, **Ionelia Taranu**. 2020. Bioactive compounds from dietary whole grape seed meal improved colonic inflammation via inhibition of MAPKs and NF-kB signaling in pigs with DSS induced colitis. ***J. Funct. Foods***. https://doi.org/10.1016/j.jff.2019.103708.
20. -Grosu IA, Pistol GC, Marin DE, Cişmileanu A, Palade LM, **Ţăranu 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.
21. -Reyes-Camacho D, Vinyeta E, Pérez JF, Aumiller T, Criado L, Palade LM, **Taranu I,** Folch JM, Calvo MA, Van der Klis JD, Solà-Oriol D. 2020. Phytogenic actives supplemented in hyperprolific sows: effects on maternal transfer of phytogenic compounds, colostrum and milk features, performance and antioxidant status of sows and their offspring, and piglet intestinal gene expression. ***J Anim Sci***. pii: skz390. doi: 10.1093/jas/skz390.
22. -**Taranu I,** Marin DE, Palade M, Pistol GC, Chedea VS, Gras MA, Rotar C. 2019. 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.
23. -Marin DE, Braicu C, Dumitrescu G, Pistol GC, Cojocneanu R, Neagoe IB, **Taranu I**. 2019. MicroRNA profiling in kidney in pigs fed ochratoxin A contaminated diet. Ecotoxicol Environ Saf. 184:109637. doi: 10.1016/j.ecoenv.2019.109637.
24. -Palade LM, Habeanu M, Marin DE, Chedea VS, Pistol GC, Grosu IA, Gheorghe A, Ropota M, **Taranu I**. 2019. Effect of Dietary Hemp Seed on Oxidative Status in Sows during Late Gestation and Lactation and Their Offspring. Animals (Basel). 9(4). pii: E194. doi: 10.3390/ani9040194.
25. -Chedea VS, Palade LM, Pelmus RS, Dragomir C, **Taranu I.** 2019. Red Grape Pomace Rich in Polyphenols Diet Increases the Antioxidant Status in Key Organs-Kidneys, Liver, and Spleen of Piglets. Animals (Basel). 9(4). pii: E149. doi: 10.3390/ani9040149.
26. -Grosu IA, Pistol GC, **Taranu I,** Marin DE. 2019. The Impact of Dietary Grape Seed Meal on Healthy and Aflatoxin B1 Afflicted Microbiota of Pigs after Weaning. Toxins (Basel). 11(1). pii: E25. doi: 10.3390/toxins11010025.
27. -Pistol GC, Marin DE, Dragomir C, **Taranu I**. 2019. 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. 19:1-15. doi: 10.1017/S0007114518003410.
28. -**Ionelia TARANU**, Mihaela HABEANU, Mihail A. GRAS, Gina Cecilia PISTOL, Nicoleta LEFTER, Mihai PALADE, Mariana ROPOTA, Veronica Sanda CHEDEA and Daniela E. MARIN. 2018. Assessment of the effect of grape seed cakes inclusion in the diet of healthy fattening-finishing pigs. J. Anim. Nutr. & Anim Physiol., e30-e42. doi: 10.1111/jpn.12697.
29. -**Taranu Ionelia**, Tien-Thanh Nguyen, Kim-Dang Pham; et al.Rice and Cassava Distillers Dried Grains in Vietnam. 2018. Nutritional Values and Effects of Their Dietary Inclusion on Blood Chemical Parameters and Immune Responses of Growing Pigs. Waste And Biomass Valorization, 10, 3373-3382.
30. -**Taranu I**, Marin DE, Braicu C, Pistol GC, Sorescu I, Pruteanu LL, Berindan Neagoe I, Vodnar DC. 2018. In Vitro Transcriptome Response to a Mixture of Lactobacilli Strains in Intestinal Porcine Epithelial Cell Line. Int J Mol Sci. 19(7), 2-17.
31. -Marin DE, Pistol GC, Gras M, Palade M, Taranu I. 2018. 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. 20doi: 10.1007/s00210-018-1538-9.
32. -Chedea VS, Palade LM, Marin DE, Pelmus RS, Habeanu M, Rotar MC, Gras MA, Pistol GC, **Taranu I**. 2018. Intestinal Absorption and Antioxidant Activity of Grape Pomace Polyphenols. Nutrients. 10(5). pii: E588. doi: 10.3390/nu10050588.
33. -Marin DE, Pistol GC, Gras MA, Palade ML, **Taranu I**. 2017. Comparative effect of ochratoxin A on inflammation and oxidative stress parameters in gut and kidney of piglets. Regul Toxicol Pharmacol. 89, 224-231. doi: 10.1016/j.yrtph.2017.07.031.
34. -Marin DE, Braicu C, Gras MA, Pistol GC, Petric RC, Berindan Neagoe I, Palade M, Taranu I. . 2017. **Low level of ochratoxin A affects genome-wide expression in kidney of pig,** Toxicon. 136, 67-77.

35. -Chedea VS, Pelmus RS, Lazar C, Pistol GC, Calin LG, Toma SM, Dragomir C, **Taranu I.** 2016. Effects of a diet containing dried grape pomace on blood metabolites and milk composition of dairy cows. J. Sci Food Agric. doi: 10.1002/jsfa.8068.
36. -Braicu C, Cojocneanu-Petric R, Jurj A, Gulei D, **Taranu I,** Gras AM, Marin DE, Berindan-Neagoe I. 2016. Microarray based gene expression analysis of Sus Scrofa duodenum exposed to zearalenone: significance to human health. BMC Genomics, 7, 2984-8.
37. -Braicu C, Selicean S, Cojocneanu-Petric R, Lajos R, Balacescu O, Taranu I, Marin DE, Motiu M, Jurj A, Achimas-Cadariu P, Berindan-Neagoe I. 2016. Evaluation of cellular and molecular impact of zearalenone and Escherichia coli co-exposure on IPEC-1 cells using microarray technology. BMC Genomics, 17:576. 2830-z.
38. -Alassane-Kpembi I, Schatzmayr G, **Taranu I**, Marin D, Puel O, Oswald IP. 2016. Mycotoxins co-contamination: Methodological aspects and biological relevance of combined toxicity studies. Crit. Rev. Food Sci Nutr.
39. -**Ionelia Taranu**, Daniela Eliza Marin, Gina Cecilia Pistol, Monica Motiu, Diana Pelinescu. 2015. 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, 97, 53-63.
40. -**Ionelia TARANU**, Cornelia BRAICU, Gina Cecilia PISTOL, Daniela Eliza MARIN, Monica MOTIU, Loredana BALACESCU, Radu BURLACU. 2015. Mycotoxin Zearalenone exposure alters in vitro porcine intestinal epithelial cells through differentially gene expression. Toxicol. lett. 310-325. (impact factor =3.54)
41. -Petric RC, Braicu C, Bassi C, Pop L, **Taranu I**, Dragos N, Dumitrascu D, Negrini M, Berindan-Neagoe I. 2015. Interspecies Gene Name Extrapolation-A New Approach. PLoS One. 10(9):e0138751.
42. -Marin DE, Motiu M, **Taranu I**. 2015. Food contaminant zearalenone and its metabolites affect cytokine synthesis and intestinal epithelial integrity of porcine cells. Toxins. 7(6):1979-88.
43. -D.E. Marin, M. Motiu, G. C. Pistol, M.A. Gras, F. Israel-Roming, L. Calin, M. Stancu, **I. Taranu**. 2015. Diet contaminated with ochratoxin A at the highest level allowed by EU recommendation disturbs liver metabolism in weaned piglets. World Mycotoxin Journal, 9, 587-596.
44. -Gina Cecilia PISTOL, Cornelia BRAICU, Monica MOTIU, Mihail Alexandru GRAS, Daniela Eliza MARIN, Mariana STANCU, Loredana CALIN, Florentina ISRAEL-ROMING, Ioana BERINDAN-NEAGOE and **Ionelia TARANU**. 2015. Zearalenone mycotoxin affects immune mediators, MAPK signalling molecules, nuclear receptors and genome-wide gene expression in pig spleen., 10(5):e0127503.
45. -Gina Manda, Mihaela Andreea Mocanu, Daniela Eliza Marin and **Ionelia Taranu**. 2015. Dual Effects Exerted in Vitro by Micromolar Concentrations of Deoxynivalenol on Undifferentiated Caco-2 Cells. Toxins, 7, 593-603.
46. -**Ionelia Taranu**, Mihail Gras, Gina Cecilia Pistol, Monica Motiu, Daniela E. Marin, Nicoleta Lefter, Mariana Ropota, Mihaela Habeanu. 2014. -3 PUFA Rich Camelina Oil By-Products Improve the Systemic Metabolism and Spleen Cell Functions in Fattening Pigs. PLOSone 9, 10-e10186.
47. -Gina Cecilia PISTOL, Mihail Alexandru GRAS, Daniela Eliza MARIN, Florentina ISRAEL-ROMING, Mariana STANCU and **Ionelia TARANU.** 2014. Natural feed contaminant zearalenone decreases the expression of important pro-and anti-inflammatory related mediators and MAPKs/NFkB signaling molecules in pig. British J. Nutr., 111, 452-464.
48. -Daniela E. Marin and **Ionelia Taranu**. 2014. Ochratoxin A and its effects on immunity. Toxins review. On line: 1-10.
49. -Daniela E. Marin, Gina C. Pistol, Ionela V. Neagoe, Loredana Calin, Ionelia Taranu. 2013. Effects of zearalenone on oxidative stress and inflammation in weanling piglets. Food and Chemical Toxicology, 58: 408-415.
50. -Thierry Gauthier, Yann Waché, Joëlle Laffitte, **Ionelia Taranu**, Nazli Saeedikouzehkonani, Yasuyuki Mori and Isabelle P. Oswald. 2013. Deoxynivalenol impairs the immune functions of porcine neutrophils. Mol. Nutr. Food Res., 57, 1026-1036.
51. -A. Untea, R.D. Criste, I. Taranu, W.B. Souffrant, P. Janczyk, L. Vladescu, C. Dragomir. 2013. Availability of microelements in recently weaned piglets fed diet supplemented with inulin. Czech J. Anim. Sci. 7:332-343.
52. -**Ionelia Taranu**, Daniela E. Marin, Arabela Untea, Pavel Janczyk, Monica Motiu, Rodica Diana Criste, and W.B. Souffrant. 2012. Effect of dietary natural supplements on immune response and mineral bioavailability in piglets after weaning. Czech J. Anim. Sci. 58:369-374.
53. -Daniela E. Marin and **Ionelia Taranu**. 2012. Overview on aflatoxins and oxidative stress. Toxins review. On line: 1-12.
54. Streit E., Schatzmayr G., Tassis P., Tzika E., Marin D., **Taranu I.**, Tabuc C., Nicolau A., Aprodu I., Puel O. and Isabelle P. Oswald. 2012. Current Situation of Mycotoxin Contamination and Co-occurrence in Animal Feed—Focus on Europe. Toxins, 4, 788-809. (impact factor=2.129)
55. -**Taranu I.,** D. Marin, G. Manda, M. Motiu, I. Neagoe, C. Tabuc, M. Stancu, M. Olteanu. 2011. Assessment of the potential of a boron-fructose additive in counteracting the toxic effect of fusarium mycotoxins. British J. Nutr., 14:1-11.
56. -Marin DE, **Taranu I,** Burlacu R, Manda G, Motiu M, Neagoe I, Dragomir C, Stancu M, Calin L. 2011. Effect of zearalenone and its derivatives on porcine immune response. Toxicol In Vitro. 25:1981-8.
57. -Habeanu M., Hebean V., **Taranu I.,** Ropota M., Lefter N., Marin D.E. 2011. Dietary ecologic camelina oil – a beneficial source of n-3 PUFA in muscle tissue and health status in finishing pigs. Romanian Biotechnological Letters. 16, 5: 5564-5571.
58. -Philippe Pinton, Cornelia Braicu, Jean-Philippe Nougayrede, Joelle Laffitte, **Ionelia Taranu** and Isabelle P. Oswald. 2010. Deoxynivalenol impairs porcine intestinal barrier function and decreases the protein expression of claudin-4 through a mitogen-activated protein kinase-dependent mechanism. J. Nutr., 140:1956-1962.
59. -**Taranu I.,** D. Marin, R. Burlacu, P. Pinton, V. Damian, and I Oswald. 2010. Comparative aspects of in vitro proliferation of human and porcine lymphocytes exposed to mycotoxins. Arch. Anim. Nutrition, 64: 383-393.
60. -Marin D.E., **Taranu I.,** Burlacu R., Tudor D.S. 2010. Effects of zearalenone and its derivatives on the immune response of swine. Toxicon, 56: 956-963. (impact factor=2.451)

61. -C. Cristescu, A. Andronie, S. M. Iordache, A. Cucu, S. Stamatin, G. Nan, **I. Taranu**, L. M. Constantinescu, I. Stamatin. 2010. Detection of the neurotoxin, deoxynivalenol, with PANi modified screen-printed electrode. J. Optoelectronics Advanced Materials, 12: 941 – 943.
62. -Marin Daniela Eliza, Gouze Marie-Estelle, **Taranu Ionelia** and Oswald Isabelle. 2007. Fumonisin B1 alters cell cycle progression and interleukin-2 synthesis in swine peripheral blood mononuclear cells. Mol. Nutr. Food Res, 51: 1406 – 1412.
63. -Daniela E. Marin, **Ionelia Taranu**, Florentina Pascale, Alexandru Lionide, Radu Burlacu, Jean-Denis Bailly and Isabelle P. Oswald. 2006. Sex-related differences in the immune response of weanling piglets exposed to low doses of fumonisin extract. British J. Nutr., 95: 1-9.
64. -Francis Girard, Isabelle P. Oswald, **Ionelia Taranu**, Greg D. Appleyard, Pierre Hélie, Josée Harel et John M. Fairbrother. 2005. Host immune status influences the development of attaching and effacing lesions in weaned pigs. Infect Immun., 73: 5514-23.
65. -**Taranu I**., D. Marin, S. Bouhet, F. Pascale, J.D. Bailly, D. Miller, P. Pinton, and I Oswald. 2005. Fumonisin B1, a toxin produced by fusarium verticillioides, alters the Th1/Th2 cytokine balance and decreases specific antibody titter in piglets. Toxicological Sci., 84:301-307.
66. -I. P. Oswald, D. E. Marin, S. Bouhet, P. Pinton, **I. Taranu**, & F. Accensi. 2005. Immunotoxicological risk of mycotoxins for domestic animals. Food Additives and Contaminants, 22: 354-60.
67. -Marin D.E, **Taranu I**., Bunaciu R.P., Pascale F., Tudor D.S., Avram N., Sarca M., Cureu I., Criste R.D., Suta V., Oswald I.P. 2002. Changes in performance, blood parameters, humoral and cellular immune responses in weanling piglets exposed to low doses of aflatoxin B1. J. Anim. Sci., 80: 1250-1257.
68. -Burlacu Gh., **I. Taranu**, R. D. Criste, A. Cavache, R Burlacu and M. Olteanu. 1996. The pattern of nutrient and energy utilization, relation and the chemical composition of body in broilers from hatching to maturity. Arch. Anim. Nutrition, 48: 1-24.

-Proiecte de cercetare-dezvoltare-inovare pe bază de contract/grant:
PROIECTE NAŢIONALE :

1. **PNCD 3-Nucleu/PN23-2002-01/2023:** Elaborarea de soluții nutriționale ”ecologic prietenoase” prin utilizarea eficientă a unor reziduuri vegetale locale cu potențial nutritiv si bioactiv ridicat pentru creșterea imunității naturale intestinale la purcei după înțărcare *(director proiect)*.
2. **ADER / Contract nr. 8.2.1/2023:** Cercetare cu privire la elaborarea unor solutii nutritionale de reducere a efectelor conaminarii cu micotoxine a furajelor destinate tineretului porcin (*membru echipa cercetare proiect)*.
3. **PNCD 3-PCE 40/2022**: Evaluarea eficienței unor subproduse agro-industriale cu matrici complexe de compuși bioactivi de a înlocui ZnO; de la *in vitro* la *in vivo* (director proiect).
4. **PN-III-P4-PCE 42/2022:** Abordari *in vitro*, *ex-vivo* si in silico pentru identificarea mecanismelor moleculare si celulare implicate în toxicitatea alternariolului *(membru echipa cercetare proiect)*.
5. **PNCD 3-Nucleu/PN19-0901-01/2019:** Investigarea potențialului unor subproduse agro-industriale prelucrate prin fermentare de a modula procese fiziologice cu importanță majoră pentru obținerea de performanțe; reducerea stresului oxidativ și inflamației tranzitorii la purcei după înțărcare*(director proiect)*.
6. **PN-3-PED/396/2019**: Formula nutritionala imbogatita in nutrienti bioactivi cu efect antimicrobian pentru inlocuirea oxidului de zinc la purcei dupa intarcare.
7. **PNCD 3-Nucleu/PN18-2001/2018:** Interventii nutritionale bazate pe compusi bioactivi eficiente in modularea raspunsului imun si a microbiomului intestinal, reducerii stresului oxidativ si contaminarii cu micotoxine la purcei in perioada postintarcare
8. **ADER /Contract nr. 9.2.1/2019:** Evaluarea efectelor produse de diferiți contaminanți alimentari asupra sănătății purceilor după înțărcare și elaborarea de recomandări naționale și europene privind normele și limitele de toleranță pentru micotoxine (*membru echipa cercetare proiect)*
9. **PNCD 2-Nucleu/PN18-2001-01/2017**: Interventii nutritionale bazate pe compusi bioactivi eficiente in modularea raspunsului imun si a microbiomului intestinal, reducerii stresului oxidativ si contaminarii cu micotoxine la purcei in perioada postintarcare *(director proiect).*
10. **PNCD 3-Complex 0473/2017**: De la nutritia clasica la nutritia de precizie in domeniul cresterii animalelor, baza stiintifica pentru asigurarea securitatii nutritionale a populatiei *(director de proiect).*
11. **PNCD 2-Nucleu/PN16-4102-01/2016**: Studii privind efectele unor xenobiotice la nivelul ficatului ca organ cu rol cheie in metabolizarea ingestei, sinteza de substante vitale si detoxifiere la porc *(director proiect).*
12. **PNCD 2-Nucleu/PN16-4102-02/2016**: Estimarea efectelor unor contaminanti non-fungici din cereale cu posibila implicare in nefropatia endemica la porc *(membru echipa cercetare proiect).*
13. **PNCD 2-Nucleu/PN16-4102-03/2016**: Studii privind absorbtia si metabolizarea unor compuși bioactivi vegetali (polifenoli) prin tehnici de înaltă performanta (LC-MS) in vederea valorificării lor superioare la purcei *(membru echipa cercetare proiect).*
14. **PNCD 2-TE/ Contract nr. 302/2015**: Investigarea pre-, probioticelor ca modulatori ai microflorei si inflamatiei intestinale la porc ca model pentru inflamatia intestinala cronica umana (*mentor proiect).*
15. **ADER /Contract nr. 6.2.1/2015:** Studii privind efectul nutrienților/ contaminanților din hrana suinelor asupra funcțiilor de absorbție/barieră imună a tractusului gastro-intestinal; dezvoltarea de noi strategii nutriționale în vederea îmbunătățirii statusului imun (*membru echipa cercetare proiect)*

16. **PNCD 2-Idei/Contract nr. 101/2011:** Studiul toxicitatii zearalenonei, contaminant natural al hranei, prin utilizarea de naotehnologii; contributii la realizarea de politici publice privind securitatea alimentara; *(director de proiect).*
17. **PNCD 2-Parteneriate/Contract nr. 102/2011:** Impactul co-contaminarii furajelor si solutii de ameliorare care sa creasca securitatea furajelor, sanatatea animalelor si calitatea alimentelor *(director de proiect).*
18. **PNCD 2-TE/ Contract nr. 4/2013:** Efectele citogenice, biochmice si patologice produse de ingerarea repetata a *ochratoxinei* a, contaminant natural in lantul alimentar; posibile implicatii in nefropatia endemica balcanica *(mentor proiect).*
19. **PNCD 2-TE/ Contract nr. 31/2013:** Valorificarea reziduurilor industriei vinicole prin nutriţia animală îmbogăţită în antioxidanţi *(mentor proiect).*
20. **PNCD 3/PED 189/2016:** Produs furajer pentru diminuarea contaminarii cu micotoxine la porc
21. **PNCD 2-Parteneriate/Contract nr. 111/2011:** Obtinerea de produse alimentare sanatoase, cu profil nutritional relevant si includerea unor compusi bioprotectivi cu efect de reducere a riscului sindromului metabolic si bolilor asociate *(membru echipa cercetare proeict).*
22. **PNCD 2-Nucleu/PN09-0202/2009:** Evaluarea, adaptarea şi valorificarea complexa de noi surse alternative de aditivi organici în scopul cresterii statusului imun la purcei dupa intarcare si imbunatatirii calitatii produselor animaliere destinate alimentatiei umane *(director proiect).*
23. **PNCD 2-Nucleu/PN09-0204/2009:** Investigatii privind capacitatea contaminantilor alimentari de a induce stresul oxidativ la animalele de ferma *(membru echipa cercetare proiect).*
24. **PNCD 2-Idei/contract nr. 1080/2009:** Elaborarea si dezvoltarea unui model celular de simulare a functiilor intestinului pentru evaluarea efectelor unor contaminanti alimentari la nivel intestinal *(membru echipa cercetare proeict)*.
25. **PNCD 2-Parteneriate/Contract nr. 62-068/2008:** Obtinerea unor fitopreparate, prebiotice si biocombustibili prin prelucrarea complexa a sorgului zaharat *(responsabil proiect).*
26. **PNCD 2-Parteneriate/Contract nr. 51-078/2008:** Ergosterol – metoda rapida de evaluare a gradului de contaminare fungica a cerealelor *(membru echipa cercetare proeict).*
27. **PNCD 2-Parteneriate/Contract nr. 55-122/2008:** Asigurarea securitatii si calitatii resurselor furajere si produselor animaliere prin solutii nutritionale de diminuare a efectelor negative ale unor micotoxine, contaminanti naturali ai hranei animalelor de ferma si omului; *(director de proiect).*
28. **PNCD-NUCLEU/PN07-430101/2007**: Studiul micotoxinelor-contaminanti toxici naturali în hrana animalelor de fermă şi a efectelor imunosupresoare ale acestora *(membru echipa cercetare proeict).*
29. **PNCD-NUCLEU/PN07-430303/2006:** Efectul dietelor de hrana pe baza de fibre vegetale asupra raspunslui imun inflamator la purcei in perioada de intarcare *(director proiect).*
30. **PNCD-NUCLEU/PN07-430402/2006:** Eficienta utilizarii surselor naturale de antioxidanti pentru reducerea stresului oxidativ la porci, ca model pentru oameni *(membru echipa cercetare proeict)*.
31. **PNCD -CEEX/contract nr. 25/2005:** Impactul micotoxinelor produse de specii de fungi ale genului Fusarium asupra lantului alimentar *(director proiect)*.
32. **PNCD-CEEX/contract nr. 126/2005:** Modernizarea exploatării vacilor de lapte în vederea creşterii competitivităţii tehnologice ca o cerinţă a integrării în Uniunea Europeană *(partener responsabil proiect).*
33. **PNCD-CORINT/contract nr. 55/2005:** Elaborarea si utilizarea de alternative naturale la antibiotice in controlul sanatatii purceilor si cresterea performantelor *(director proiect).*
34. **PNCD-ORIZONZT-2000/1990-2000:** Absorbţia şi utilizarea vitaminelor la animalele de fermă în dinamica proceselor de producţie *(şef teme de cercetare, 18 faze)*.
35. **PNCD-ORIZONT-2000/1990-2000:** Absorbţia şi utilizarea mineralelor la animalele de fermă în dinamica proceselor de producţie *(membru echipa cercetare, 18 faze)*.

-PROIECTE INTERNAŢIONALE:

1. **Proiect European COST-FA 1401/ 2014-2019:** PiGutNet *(Director local).*
2. **Proiect European COST-CA 15224/ 2018-2021:** Keelbonedamage *(Director local).*
3. **Proiect European COST-CM 1406/ 2015-2019:** Epigenetic Chemical Biology-Epichembio *(membru echipa cercetare proeict)*.
4. **Proiect European COST-FA 15134/ 2015-2019:** GroupHouseNet *(membru echipa cercetare proeict).*
5. **Proiect de cooperare bilaterala**: **Romania-Vietnam/2014-2016**: Valorificarea subproduselor rezultate din industria etanolului ca sursă pentru hrana animalelor *(Director local).*
6. **Proiect European FP7 KBBE-2010-4/2011-2015**: SOLID**/266367** *(membru echipa cercetare proeict)*.
7. **Proiect European FP7-KBBE-2010-4/2011-2013**: FOODSEG **/266061** *(Director local).*
8. **Proiect European COST-FA 0802/ 2008-2013**: Feed for Health *(Director local).*
9. **Proiect European FP7 [REGPOPT-2007-3]/2008-2011**: FEED-TO-FOOD *(membru echipa cercetare proeict)*.
10. **Proiect bilateral PECO/CEI/2006-2009**: Reseau Formation researche- Franta si Tarile Europei de Est *(Director local)*.
11. **Proiect European FP6 [-CT-2008-043077]/2006-2008:** Feed-SEG *(membru echipa cercetare proeict)*.
12. **Proiect de cooperare bilaterala PAI/BRANCUSI [C18572]/2006-2008: Franta-Romania:** Le Deoxynivalenol, un contaminant naturel des aliments: analyse des effets immunossupresseurs chez le porc *(Director local).*
13. **Proiect European ECO-NET [12598YL]/2006-2008**: (Franta – INRA; Romania-IBNA; Polonia –Univ. Warmia, fac. MV; Slovenia – IAPSAS) Alterarea sistemului de aparare imunitara la animalele de ferma prin ingerarea unor contaminanţi alimentari: micotoxine *(Director local)*.
14. **Proiect European FP6 [CT40-2004-506144]/2004-2008**: Food for pig health *(Director local).*
15. **Proiect bilateral PECO/CEI** *Reseau Formation researche/* **2001-2004**: Franta si Tarile Europei de Est *(Director local)*.

16. **Proiect European FP5 [QLK-CT-2000-00522]/2003-2004:** Healthypiggut *(membru echipa cercetare)*.
17. **Proiect de cooperare bilaterala PECO/NEI/1999-2001:** Franta-Romania: Efectul micotoxinelor si aditivilor alimentari asupra expresiei genice a citokinelor la porc *(Director local)*.