

## LISTA DE LUCRĂRI

**-Doctorat** în zootehnie, 1998: Academia de Științe Agricole și Silvicultură, București. Titlu: Cercetări privind necesarul de vitamine la pui broiler.

### **-Cărți:**

1. Prim autor: **Fungi and Mycotoxins. Effects of mycotoxins on pig.** 2009. ARS Docendi Bucharest Univ. publisher, ISBN: 978-973-558-436-8.
2. Prim autor: **Suplimentarea cu vitamine a nutrețurilor destinate puilor de carne broiler în corelație cu diferiți factori de stres.** 2009. Ars Academica, publisher, ISBN: 978-606-8017-33-4.
3. Co-editor și co-autor: **Mycotoxins in farm animals.** 2007. Transworld Research Network publisher, ISBN: 978-81-7895-312-0, Trivandrum-695 023, KERALA.

### **-Capitole publicate în cărți de specialitate:**

4. 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 contaminant, the aflatoxins; în: **Nutrition and Immunity.** 2006. Research Signpost publisher. ISBN: 81-7736-251-8, Trivandrum-695023, KERALA, 149-156.
5. **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.

### **-Articole publicate în reviste de specialitate de circulație internațională recunoscute (reviste cotate ISI):**

1. 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.
2. 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.
3. Daniela E. Marin, **Ionelia Taranu**, Sandrine Bouhet and Isabelle P. Oswald. 2006. Effects of a food contaminant, the mycotoxin fumonisin FB1, on cytokine production: implication for the immune response to vaccination. Current Trends in Immunology, 7: 137-143.

4. 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.
5. **Taranu I.**, D. Marin, S. Bouhet, F. Pascale, J.D. Bailly, D. Miller, P. Pinton, and I Oswald. 2005. Fumonisin B<sub>1</sub>, a toxin produced by *fusarium verticillioides*, alters the Th1/Th2 cytokine balance and decreases specific antibody titer in piglets. *Toxicological Sci.*, 84:301-307.
6. 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.
7. Oswald I.P., Bouhet S., Marin D.E., Pinton P. and **Taranu I.** 2003. Mycotoxin effects on the pig immune system. *Feed Compounder*, sept. 16-20.
8. 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 B<sub>1</sub>. *J. Anim. Sci.*, 80: 1250-1257.
9. 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.

**-Articole publicate în reviste indexate CNCSIS :**

1. Marin D.E., **Taranu I.**, Tabuc C., Burghilea M. 2009. Ochratoxin: nature, origin, metabolism and toxic effect in pigs. *Archiva Zootehnică*, 12, 1, 5-17 (engl).
2. Daniela E. Marin, **Ionelia Taranu**, Cristina Tabuc, G. Stefan, Anca Dinischiotu, Gina Manda, Gabriela Dumitrescu. 2007. Alterations induced by low levels of deoxynivalenol in weaned piglets. *Scientific papers Animal Sciences and biothenologies, USAMV, Timisoara*, 40: 485-490 (engl).
3. Marin D.E., **Taranu I.**, Manda G., Nagoe I., Oswald I.P. 2006. In vitro effect of deoxynivalenol on porcine lymphocyte immune functions. *Archiva Zootechnica*, 9, 11-18 (engl).
4. G. Dumitrescu, D. Drînceanu, Lavina Ștef, Liliana Boca, Ionelia Țăranu, Daniela Marin. 2008. Alteration on the histological structure of some organs induced by low levels of Don mycotoxins in weaned piglets. *Archiva Zootehnică*, 11, 2, 12-20 (engl).
5. Marin, D.E., **Taranu, I.**, Pascale, F., Lionide, A., Bailly, J.D., Criste, R.D., Oswald, I.P. 2004. Immunotoxicological gender-related differences in a subacute fumonisin B1 exposure in swine. *Buletinul USAMV-CN*, 61: 210-215 (engl).

6. Trandaburu, I, Bouhet, S., Marin, D.E., **Taranu, I.**, Oswald, I.P., Trandaburu, T. 2004. Fumonisin B1- induced microscopic alterations in several swine organs. Re. Roum. Biol. – Biol. Anim. Tome 49, 139-155 (engl).
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8. Marin D.E, **Taranu I.**, Oswald I. 2003. In vivo and in vitro effects of deoxynivalenol on the immune system of weaned piglets. Scientific publications of Agricultural University of Timișoara, vol. XXXVI, p. 515-520 (engl).
9. Marin D.E., S. Tonceanu, **I.Taranu**, F. Pascale, A. Lionide, I. Cureu. 2002. Influence of low level exposure to fumonisin B1 on selected imunological parameters in weaned piglets. Scientific publications of Agricultural University of Timișoara, XXXV, p. 281-287 (engl).
10. **Taranu I.**, D. E. Marin, P. Bunaciu, V. Hebean, M. Enache, F. Pascale, N. Avram, I. Cureu, R. D. Criste, V. Suta., 2000. Influence of dietary vitamin supplementation on performance, blood parameters, humoral and cellular immune responses in weanling piglets exposed to dietary fungus contamination. Rev. Rom. Med. Vet., 11: 182-191.
11. **Taranu I.**, D. Tudor, R. D. Criste, V. Hebean, M. Sarca, R. Burlacu, 1999. Interactions between dietary vitamin supplements and humoral immune response in weanling piglets. Annals I.B.N.A. - Balotești, XIX: 31-33.
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13. R. D. Criste, **I. Taranu**, L. Vladescu, V. Hebean, Burlacu Gh., Avram N. 1999. Bioavailability of iron from dietary iron-lysine chelats supplements: Fe (II)-Lys and Fe (III)-Lys in weanling piglets. Scientific publications of National Institut for Growth and Development of pigs (ROMSUIN), Peris, II: 120-130.
14. R. D. Criste, **I. Taranu**, Burlacu R., M. Olteanu 1999. Research regarding the effect of using a dietary Manganese-methionine chelate on the body chemical composition of Rock cockerels. Archiva Zootechnica I. B. N. A, IV: 53-58 (engl).
15. **Taranu I.**, R. D. Criste, R. Burlacu, M. Olteanu 1997. Interactions between environmental heat temperature (31o-34o) and dietary low amount of crude protein, vitamin and minerals in broiler. Annals I.B.N.A. - Balotești, XVIII: 71-79.
16. R. D. Criste, **I. Taranu**, A. Gheorghe, Avram N., M. Serdaru. 1997. Bioavailability and efficacy of a lysine-iron chelate complex as a source of dietary iron supplement in broiler. Annals I.B.N.A. - Balotești, XVIII: 65-70.
17. R. D. Criste, **I. Taranu**, M. Serdaru, Gh. Burlacu, R. Burlacu. 1996. Addition of 1,500 ppm ascorbic acid and the possibility of reducing the level of supplemental iron in the diets of broilers raised at temperatures specific to the summer season in Romania (300-350C). Archiva Zootechnica, I.B.N.A, III: 21-33 (engl).

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19. R. D. Criste, **I. Taranu I.**, F. Boarcea. 1995. Effect of dietary phosphate glass supplement in different feeding condition of broiler. *Annals I.B.N.A. - Balotești*, XVII: 115-122.
20. **Taranu I.**, R. D. Criste, Burlacu Gh. 1993. Vitamin supplementation level in broiler diet. *Annals I.B.N.A. - Balotești*, XVI: 129-136.
21. R. D. Criste, **I. Taranu**, D. Tibara. 1993. Dietary calcium, iron, copper and manganese absorption and metabolising in piglets (10-30 kg). *Annals I.B.N.A. - Balotești*, XVI: 137-152.
22. R. D. Criste, **I. Taranu**, Gh. Burlacu, M. Iliescu, M. Olteanu, I. Birau, R. Burlacu. 1990. Absorption and metabolization of minerals and vitamins contained in pig diets. *Archiva Zootechnica I. B. N. A*, II: 73-78 (engl).

**-Studii publicate în volumele unor manifestări științifice internaționale recunoscute (cu ISSN sau ISBN):**

1. **Taranu I.**, Marin D.E, Untea A., Criste R.D., Burhelea M. 2009. Beneficial effect of dietary Chlorella and essential oil plant extracts on essential trace element status in weaned piglets. *Proceeding of the 3rd International Symposium on Trace Elements in Food, Rome, Italy, 1-3 April*, p. 125.
2. **Taranu I.**, Marin D.E, Manda G., Tabuc C, Manda D. 2008. Evaluate the potential of a boron-fructose prebiotic (FructoB) in counteracting the toxic effect of Fusarium toxins. *Toxicology Letters*, 180S, S63.
3. Oswald I.P., Marin D.E, Pinton P., **Taranu I.**, Bouhet S. 2007. Effects of fumonisin B1, on the innate and acquired immune responses of piglets. *Proceeding of XXth IUPAC Symposium on mycotoxins and phytotoxins, Istambul, Turkey, 21-25 May*, p. 130.
4. Pinton P., Bracarense A.P., **Taranu I.**, Marin D.E., Ferrier L., Oswald I.P. 2007. The barrier function of human and pig intestine is altered by deoxynivalenol. *Proceeding of XXth IUPAC Symposium on mycotoxins and phytotoxins, Istambul, Turkey, 21-25 May*, p. 135.
5. Gina Manda, Monica Neagu, Carolina Constantin, Ionela Neagoe, Daniela Marin, **Ionelia Taranu**. 2007. Immunotoxicology of mycotoxins produced by Fusarium fungi – Low concentrations of deoxynivalenol interfere with nucleotide metabolism *Toxicology Letters (ISSN: 0378-4274) 172S: M30, S49*.
6. Dinischiotu, D.Dinu, M. Rebedea, G. Stoian, **I. Taranu**, D. Marin, M. Costache. 2007. Biochemical effects induced by deoxynivalenol intoxication in piglets. *Proceeding of New Perspectives and Challenges of Sustainable livestock Farming, Belgrad, Zemun, Serbia, 23 (5-6 oct.)*, p. 245-250.

7. D. Dinu, **Ionleia Taranu**, Marieta Costache and Anca Dinischiotu. 2007. Effects of deoxynivalenol contaminated feed on some parameters in piglets. Book of Abstracts of the 58th Annual EAAP Meeting, Dublin, Ireland, 26 – 29 August p.194.
8. R. D. Criste, A.Untea, D. Torrallardona N. Andres and **I.Taranu**. 2008. Effects of dietary inclusions of natural extracts on the mineral (Fe, Cu, Zn) status of weaned piglets. Trace elements in animal production Wageningen Academic Publishers, the Netherlands. ISBN 978-90-8686-061-6, p.273-276.
9. **Taranu, I.**, Marin D.E., Pascale, F., Pinton, P., Bailly, J.D., Oswald, I.P. 2006. Effect of Fusarium mycotoxin on serological and immunological parameters in weaned piglets. Proceeding of the 57th Annual meeting of the European Association for Animal Production, Antalya, Turkey, 17-20 sept., p. 36.
10. I.P. Oswald, D. Marin, S. Bouhet, P. Pinton, **I. Taranu**. 2005. Effects of a food contaminant, fumonisin B1, on the innate and acquired immune responses of piglets. Proceeding of the third conference of The World Mycotoxin Forum, Noordwijk Ann Zee, The Netherland, 10-11 Nov., p.175.
11. Isabelle P. Oswald, Daniela E.Marin, P. Pinton, Sandrine Bouhet, **Ionelia Taranu**, and F. Accenssi. 2005. Impact of feed contamination with mycotoxin on pig health. International workshop on green pork production. Paris, France, 25-27 May, p. 28.
12. Oswald I.P., Marin, D.E., Bouhet, S., Pascale, F., Bailly, J.D, Miller, D.J., **Țăranu I.** 2004. In vitro and in vivo effect of fumonisin B1 on pig lymphocytes: implication for the immune response to vaccination. Proceeding of the XIth International IUPAC Symposium on Mycotoxin and Phycotoxins, Bethesda, Maryland, USA, 17-21 May, p. 34.
13. Isabelle Oswald, Daniela E. Marin, P. Pinton and **Ionelia Taranu**. 2004. Modulation of TH1/TH2 cytokines balance in piglets by fumonisin B1, a food contaminant. Proceeding of the 7th International Veterinary immunology symposium, Quebec City, Canada, July 25-30, p. 95.
14. Oswald I.P., S.Bouhet, D. E. Marin, P. Pinton and **I. Taranu**. 2003. Mycotoxin effects on the pig immune system. Nutritional Biotechnology in the Food and Feed Industries: proceeding of Alltech's 19th Annual Symposium. Edited by TP Lyons and KA Jacques Nottingham University Press, Nottingham, UK: 213-22.
15. **Taranu I.**, Marin D.E., Pascale F., Habean M., Heban V., Bailly J.D. and Oswald I.P. 2003. Effet d'une mycotoxine, la Fumonisine B1, sur la réponse immunitaire vaccinale chez le porcelet. Journées Rech. Porcine, 35: 451-458.
16. Grosjean F., **Taranu I.**, Skiba F., Callu P., and Oswald I.P. 2002. Comparaison de bles fusaries naturellement a des bles sains dans l'alimentation du porcelet sevre. Journées Rech. Porcine en France, 34: 333-339.
17. **Taranu I.**, R. D. Criste, Burlacu R., M. Olteanu, Burlacu Gh. 2000. Influence of a Distiller's Dried Grains on the Egg Quality. Proceeding of the XXIth World's Poultry Congress, Montreal, Canada, 20-24 August 2000, CD proceeding.

18. **Taranu I.**, R.D. Criste, Burlacu Radu, Burlacu Gh. 1999. Egg quality in White Leghorn hens fed on white clover. Proceeding of the VIIIth European Symposium on the Quality of Eggs and Egg Products, Bologna, Italy, 19-23 September 1999, pp. 229 - 234.
19. **Taranu I.**, R. D. Criste, Burlacu R., Burlacu Gh. M. Olteanu 1997. Dietary vitamin and mineral supplementation in accordance with the intensity of growth on broiler. Proceeding of the 11th European Symposium on Poultry Nutrition, Denmark, Copenhagen, 24-28 August, 1997, pp. 262-264.
20. R. D. Criste, **I. Taranu**, M. Serdaru, L. Vlădescu. 1997. Effect of a manganese methionine chelate in Rock cockerels feeding on performance, coefficient of absorption from ingesta, and concentration in kidneys. Proceeding of the 11th European Symposium on Poultry Nutrition, Denmark, Copenhagen, 24-28 August, 1997, pp. 447-449.
21. **Taranu I.**, R. Criste, Burlacu R., Burlacu Gh. 1995. Influence of vitamin and mineral nutrition and of low ambient temperature on broiler performance and quality of body composition. Proceeding of the XIIth European Symposium on the Quality of Poultry Meat, Zaragoza, Spain, 25-29, September, 1995, pp: 83-85.
22. R. D. Criste, **I. Taranu**, A. Gheorghe, Avram N., M. Serdaru. 1995. Short communication regarding the utilization of iron from a Fe-lysine chelate by broiler chickens. Proceeding of the Xth European Symposium on Poultry Nutrition, Antalya, Turkey, 15-19, Oct., 1995, pp. 50-51.

#### **Lucrări de popularizare:**

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2. Taranu I., 2000. Imports threaten Romania's Industry. Poultry International, 39: 30-34.
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4. D. Tudor, I. Taranu, M. Sarca 1997. Nutritional and Environmental influences on immune system. Poultry International, 36: 106-107.
5. R. Diana C., I. Taranu, L. Vlădescu. 1997. Assessment of manganese-methionine chelats, as a source of dietary manganese supplement in Rock cockerels. Avicultorul, III: 44-45.
6. R. D. Criste, I. Taranu. 1997. Iron utilization by broilers. Poultry International, 36: 96-98.
7. Taranu I., R. D. Criste, R. Burlacu. 1996. Effect of low ambient temperatures on broilers. Poultry International, 35: 38-44.

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

**PROIECTE NAȚIONALE:**

**PNCIDI 2-Parteneriate/Contract nr. 55-122/2008-2010:** 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*).

**PNCIDI 2-Idei/contract nr. 1080/2009-2012:** Elaborarea si dezvoltarea unui model celular de simulare a functiilor intestinului pentru evaluarea efectelor unor contaminanti alimentari la nivel intestinal (*membbru echipa cercetare proiect*).

**PNCIDI 2-Parteneriate/Contract nr. 62-068/2008-2011:** Obținerea unor fitopreparate, prebiotice si biocombustibili prin prelucrarea complexa a sorgului zaharat (*responsabil proiect*).

**PNCIDI 2-Parteneriate/Contract nr. 51-078/2008-2011:**Ergosterol – metoda rapida de evaluare a gradului de contaminare fungica a cerealelor (*membbru echipa cercetare proiect*).

**PNCIDI 2-Nucleu/PN09-0202/2009-2011:** Evaluarea, adaptarea și valorificarea complexa de noi surse alternative de aditivi organici în scopul creșterii statusului imun la purcei după întarcare și îmbunătățirii calitatii produselor animaliere destinate alimentației umane (*director proiect*).

**PNCIDI-NUCLEU/PN07-430101/2007-2009:** Studiul micotoxinelor-contaminanti toxici naturali în hrana animalelor de fermă și a efectelor imunopresoare ale acestora (*membbru echipa cercetare proiect*).

**PNCIDI-NUCLEU/PN07-430303/2006-2008:** Efectul dietelor de hrana pe baza de fibre vegetale asupra raspunsului imun inflamator la purcei in perioada de intarcare (*director proiect*).

**PNCIDI-NUCLEU/PN07-430402/2006-2008:** Eficienta utilizarii surselor naturale de oxidanti pentru reducerea stresului oxidativ la porci, ca model pentru oameni (*membbru echipa cercetare proiect*).

**PNCIDI -CEEX/contract nr. 25/2005-2008:** Impactul micotoxinelor produse de specii de fungi ale genului Fusarium asupra lantului alimentar (*director proiect*).

**PNCIDI-CEEX/contract nr. 126/2005-2008:** Modernizarea exploatării vacilor de lapte în vederea creșterii competitivității tehnologice ca o cerință a integrării în Uniunea Europeană (*responsabil proiect*).

**PNCIDI-CORINT/contract nr. 55/2005-2008:** Elaborarea si utilizarea de alternative naturale la antibiotice in controlul sanatatii purceilor si cresterea performantelor (*director proiect*).

**PNCIDI-ORIZONZT-2000/1990-2000:** Absorbția și utilizarea vitaminelor la animalele de fermă în dinamica proceselor de producție (*șef teme de cercetare*).

**-PROIECTE INTERNAȚIONALE:**

**Proiect European COST-FA 0802/ 2008-2012:** Feed for Health (*Director local*).

**Proiect European FP7 [REGPOPT]/2008-2011:** FEED-TO-FOOD (*membbru echipa cercetare proiect*).

**Proiect bilateral PECO/CEI Reseau Formation recherche/ 2006-2009:** Franta si Tarile Europei de Est (*Director local*).

**Proiect European FP6 [-CT-2008-043077]/2006-2008:** Feed-SEG (*membru echipa cercetare proiect*).

**Proiect bilateral PAI/BRANCUSI [C18572]/2006-2008:** Franta – INRA; Romania-IBNA; Le Deoxynivalenol, un contaminant naturel des aliments: analyse des effets immunosupresseurs chez le porc (*Director local*).

**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 contaminanți alimentari: micotoxine (*Director local*).

**Proiect European FP6 [CT40-2004-506144]/2004-2008:** Food for pig health (*Director local*).

**Proiect bilateral PECO/CEI Reseau Formation recherche/ 2001-2004:** Franta si Tarile Europei de Est (*Director local*).

**Proiect European FP5 [QLK-CT-2000-00522]/2003-2004:** Healthypiggut (*membru echipa cercetare*).

**Proiect bilateral PECO/NEI/1999-2001:** Franta – INRA; Romania-IBNA; Efectul micotoxinelor si aditivilor alimentari asupra expresiei genice a citokinelor la porc (*Director local*).