Dr. Zoidis Evangelos

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Education

- 2000: Doctor of Philosophy (Ph.D. Biochemistry- Endocrinology), Faculty of Sciences, Biochemistry Department, University of Zurich, Switzerland (fellow of the National Research Foundation, SNF)
- 1996: Diploma (Dipl. nat. sc. Biochemistry-Molecular Biology), Faculty of Sciences, Biochemistry Department, University of Zurich, Switzerland

Professional Appointments

- 2009-present: Lecturer at the Agricultural University of Athens, Greece
- 2005-2008: Senior scientist at the Department of Nutritional Physiology and Feeding, Faculty of Animal Sciences and Aquaculture, Agricultural University of Athens, Greece
- 2000-2003: Postdoctoral researcher (fellow of the Swiss National Research Foundation, SNF) in the Department of Metabolism, University Hospital of Zurich, Switzerland

Teaching Activities

- "Biochemistry" and "Animal Nutrition" in undergraduate level
- "Molecular Biology", "Nutrition" and "Nutrition and Health" in postgraduate level

Research

The research interests focus on nutritional physiology, endocrinology and molecular metabolism:

- Study of phosphate, sodium and vitamin D metabolism and genetic mutations that affect them
- Relationship between food interactions and physiology/homeostasis of the skeletal and digestive system
- Sodium-phosphate transport systems and glucose transport systems in vivo and in vitro
- Study of the pituitary-endocrine axis pancreas: growth hormone and actions of IGF I
- Gene/protein expression and cloning
- Endopeptidases/membrane isoenzymes and control of gene expression
- Selenium/selenoproteins: metabolism and actions/gene expression

Honors – Awards

- **May 2011**: Member of the Editorial Board of *Endocrinology & Metabolic Syndrome: Current Research*
- **December 2010**: Health Research Award Board, Ireland, 2011 (Evaluator of research proposals)
- **August 2006**: Nomination of the publication "Physicochemical changes of olive oil and selected vegetable oils during frying" (Journal of Food Lipids 2006) from Blackwell Publishing as the best for the year 2006 in the field of "Food Lipids"
- **November 2004**: PHOENIX Pharmacy-Research Award 2004, for scientific work in the field of Biochemical-Pharmaceutical Technology
- **March 2001**: Pharmacia Leonardo Award 2000, from the Italian Research Organization, Milan, Italy
- **June 2000**: Swiss National Science Foundation, Postdoctoral Research funding (duration 24 months)
- **April 1997**: Swiss National Science Foundation, PhD funding, grant no. 32-46808.97 (duration 40 months)
- **1983-1988**: 1st Prize of Performance and Excellence for all years of education in high school and Lyceum

Peer Reviewer of Scientific Journals

- Journal of Endocrinology
- Endocrine
- Journal of Environmental Sciences
- International Journal of Molecular Sciences
- Reproductive Biology and Endocrinology
- Biological Trace Element Research
- Cell and Tissue Research
- Calcified Tissue International
- Lung
- Turkish Journal of Veterinary and Animal Sciences
- Aquaculture International
- Research in Veterinary Science
- Czech Journal of Animal Science
- African Journal of Microbiology Research
- Animal
- Iranian Journal of Applied Animal Science

List of publications in peer reviewed scientific journals I

•Zoidis E., Zapf J., Schmid C. (2000). Phex cDNA cloning from rat bone and studies on Phex mRNA expression: tissue-specificity, age-dependency, and regulation by insulin-like growth factor (IGF) I in vivo. Molecular and Cellular Endocrinology 168, 41-51

•Zoidis E., Gosteli-Peter M., Ghirlanda-Keller C., Meinel L., Zapf J., Schmid C. (2002). IGF I and GH stimulate Phex mRNA expression in lungs and bones and 1,25-dihydroxyvitamin D3 production in hypophysectomized rats. European Journal of Endocrinology 146, 97-105

•Meinel L., Zoidis E., Zapf J., Hassa P., Hottiger M.O., Auer J.A., Schneider R., Gander B., Luginbuehl V., Bettschart-Wolfisberger R., Illi O.E., Merkle H.P., von Rechenberg B. (2003). Localized insulin-like growth factor I delivery to enhance new bone formation. Bone 33, 660-72

•Zoidis E., Ghirlanda C., Gosteli-Peter M., Zapf J., Schmid C. (2004). Regulation of phosphate (Pi) transport and NaPi-III transporter (Pit 1) mRNA in rat osteoblasts. Journal of Endocrinology 181, 531-540

•Jevdjovic T., Maake C., Eppler E., Zoidis E., Reinecke M., Zapf J. (2004). Effects of insulin-like growth factor (IGF)-I treatment on the endocrine pancreas of hypophysectomized (hypox) rats: comparison with growth hormone (GH) replacement. European Journal of Endocrinology 151, 223-231

•Chatzilazarou A., Gortzi O., Lalas S., Zoidis E., Tsaknis J. (2006). Physicochemical changes of olive oil and selected vegetable oils during frying. Journal of Food Lipids 13, 27-35

•Pappas A.C., Zoidis E., Surai P.F., Zervas G. (2008). Selenoproteins and maternal nutrition. Comparative Biochemistry and Physiology B.-151, 361-372

List of publications in peer reviewed scientific journals II

•Poulopoulou I., Hatzigeorgiou I., Zoidis E., Tsoufi V., Masouras T. (2009). Effects of terpenes administration in the physiochemical characteristics of goat milk. Greek Journal of Dairy Science and Technology, Special Issue 2009, 72-81

•Chengluo J., Zoidis E., Ghirlanda C., Schmid C. (2010). Dexamethasone and cyclic AMP regulate sodium phosphate cotransporter (NaPi-IIb and Pit-1) mRNA and phosphate uptake in rat alveolar type II epithelial cells. Lung 188, 51-61

•Zoidis E., Pappas A.C., Georgiou C.A., Komaitis E., Fegeros K. (2010). Selenium affects the expression of GPx4 and catalase in the liver of chicken. Comparative Biochemistry and Physiology B.-155, 294-300

•Pappas A.C., Zoidis E., Theophilou N., Zervas G., Fegeros K. (2010). Effects of palygorskite on broiler performance, feed technological characteristics and litter quality. Applied Clay Science 49, 276-280

•Papadomichelakis G., Mountzouris K.C., Zoidis E., Fegeros K. (2011.) Influence of dietary benzoic acid addition on nutrient digestibility and selected biochemical parameters in fattening rabbits. Animal Feed Science and Technology 163, 207-213

•Zoidis E., Ghirlanda-Keller C., Schmid C. (2011). Stimulation of glucose transport in osteoblastic cells by parathyroid hormone and insulin-like growth factor I. Molecular and Cellular Biochemistry 348, 33-42

•Pappas A.C., Zoidis E., Georgiou C.A., Demiris N., Surai P.F., Fegeros K. (2011.) Influence of organic selenium supplementation on the accumulation of toxic and essential trace elements involved in the antioxidant system of chicken. Food Additives and Contaminants-A. 28, 446–454

•Papadomichelakis G., Zoidis E., Fegeros K. (2011). Dietary induced changes in liver composition and weight of fattening rabbits. Livestock Science 144, 190-196

List of publications in peer reviewed scientific journals III

•Poulopoulou I., Zoidis E., Massouras T., Hadjigeorgiou I. (2012). Terpenes transfer to milk and cheese after oral administration to sheep fed indoors. Journal of Animal Physiology and Animal Nutrition 96, 172-181

•Pappas A.C., Zoidis E., Papadomichelakis G., Fegeros K. (2012). Supranutritional selenium level affects fatty acid composition and oxidative stability of chicken breast muscle tissue. Journal of Animal Physiology and Animal Nutrition, 96, 385-394

•Zoidis E., Ghirlanda-Keller C., Schmid C. (2012). Triiodothyronine stimulates glucose transport in osteoblastic cells. Endocrine 41, 501-511

•Schmid C., Ghirlanda-Keller C., Zwimpfer C., Zoidis E. (2012). Triiodothyronine stimulates cystatin C production in osteoblastic cells. Biochemical and Biophysical Research Communications 419, 425-430

•Poulopoulou I., Zoidis E., Massouras T., Hadjigeorgiou I. (2012). Transfer of orally administered terpenes in goat milk and cheese. Asian-Australasian Journal of Animal Sciences 25, 1411-1418

•Al-Waeli A., Pappas A.C., Zoidis E., Georgiou C.A., Zervas G., Fegeros K. (2012). The role of selenium in cadmium toxicity: Interactions with essential and toxic elements. British Poultry Science 53, 817-827

•Papadomichelakis G., Zoidis E., Mountzouris K.C., Lippas T., Fegeros K. (2012). Glycerine kinase gene expression, nutrient digestibility and gut microbiota composition in post-weaned pigs fed diets with increasing crude glycerine levels. Animal Feed Science and Technology 177, 247-252

List of publications in peer reviewed scientific journals IV

•Al-Waeli A., Zoidis E., Pappas A.C., Georgiou C.A., Zervas G., Fegeros K. (2013). The role of organic selenium in cadmium toxicity: Effects on broiler performance and health status. Animal 7, 386-393

•Luginbuehl V., Zoidis E., Meinel L., v. Rechenberg B., Gander B., Merkle H.P. (2013). Impact of IGF-I release kinetics on bone healing: a preliminary study in sheep. European Journal of Pharmaceutics and Biopharmaceutics 85, 99-106

•Zoidis E., Demiris N., Kominakis A., Pappas A.C. (2014). Meta-analysis of selenium accumulation and expression of antioxidant enzymes in chicken tissues. Animal 8, 542-554

Conference Proceedings

More than 40 abstracts, posters and short papers in national and international conferences

Books and chapters

•Pappas A.C., Zoidis E., Fegeros K., Surai P.F. and Zervas G. (2010) Cadmium toxicity and the antioxidant system. Nova Science Publishers, New York, USA.

•Pappas A.C., Zoidis E., Fegeros K., Surai P.F. and Zervas G. (2010) Relation of cadmium to other elements and the antioxidant system. In: Parvau, P.G. (Ed.), Cadmium in the Environment, Nova Science Publishers, New York, USA.

•Zoidis E. and Pappas A.C. (2012) The health effects of selenoproteins. In: Chinatsu Aomori and Megumi Hokkaido (Eds.), Selenium: Sources, Functions and Health Effects, Nova Science Publishers, New York, USA.

•Pappas A.C., Zoidis E. (2012) The role of selenium in chicken physiology: new insights. In: Iresha Kapur and Abdullah Mehra (Eds.), Chickens: Physiology, Diseases and Farming Practices, Nova Science Publishers, New York, USA.

•Zoidis E. (2013) Glucose Uptake and Transport Regulation. In: Carter C. Johnson and Davis B. Williams (Eds.), Glucose Uptake: Regulation, Signaling Pathways and Health Implications, Nova Science Publishers, New York, USA.

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