



Iulian Alexandru Grosu

Date of birth: 15/10/1984 | **Nationality:** Romanian | **Email address:** grosu.iulian@ibna.ro |

Address: Calea Bucuresti nr. 1, Balotesti, Ilfov, Romania, 077015, Balotesti, Romania (Work)

● WORK EXPERIENCE

01/09/2015 – CURRENT

RESEARCHER NATIONAL RESEARCH DEVELOPMENT INSTITUTE FOR ANIMAL BIOLOGY AND NUTRITION

-microbiota analysis, bioinformatics pipeline software
-molecular biology (genetic material isolation and quantification, electrophoresis, Real Time PCR)
-chromatography
-mycotoxin determination (Elisa, TLC)

15/09/2016 – 15/10/2016 Bologna, Italy

INTERNSHIP ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA (DISTAL)

-Short Term Scientific Mission for young researchers with the subject "The effect of bioactive compounds from grape waste on bacterial populations in pig used as animal model for IBD investigations"

15/09/2011 – 15/04/2013 Bucuresti, Romania

RESEARCH ASSISTANT NATIONAL INSTITUTE OF RESEARCH AND DEVELOPMENT FOR BIOLOGICAL SCIENCES

Address Splaiul Independentei nr. 296 sector 6, 060031, Bucuresti, Romania

● EDUCATION AND TRAINING

15/09/1999 – 15/06/2003 Buzau, Romania

HIGH SCHOOL DIPLOMA Colegiul National Mihai Eminescu

Biologie, Chimie, Matematica, Fizica, Informatica, Limba romana, Limbi straine (Engleza, Franceza)
Biology, Chemistry, Mathematics, Physics, Informatics, Romanian, English, French Course

Level in EQF EQF level 5

15/09/2007 – 15/06/2011 Bucuresti, Romania

BACHELOR'S DEGREE (INDUSTRIAL BIOTECHNOLOGIES) University of Agronomy and Veterinary Medicine Bucharest

Applied Engineering Sciences (Genetical Engineering, Biotechnologies, Microbiology, Enzymology, Food Safety, English)

Level in EQF EQF level 6

15/09/2011 – 15/06/2013 Bucuresti, Romania

MASTER'S DEGREE (MICROBIAL BIOTECHNOLOGIES AND GENETICS) University of Bucharest, Romania

Genetics and Genetic Engineering, Microbiology, Bioinformatics, Molecular Analysis, BioEthics

Level in EQF EQF level 7

01/10/2013 – 01/10/2015 Bucuresti, Romania

PHD University of Agronomy and Veterinary Medicine Bucharest

Level in EQF EQF level 8

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B1	A2	A2	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Google Drive | Microsoft Office | Web Technologies Fundamentals - HTML, CSS | Use of communication programs (Mail, Google Meet, Zoom, Skype) Use of Email (Yahoo Mail, Gmail) | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualization | Adobe Photoshop (basic elements) | Python Language - Basic knowledge | Next Generation Sequencing

● ADDITIONAL INFORMATION

PUBLICATIONS

Publications

Grosu, I. A., Bulgaru, C. V., Pistol, G. C., Cismileanu, A., Marin, D. E., & Taranu, I. (2023). Effects of Exposure to Low Zearalenone Concentrations Close to the EU Recommended Value on Weaned Piglets' Colon. *Toxins*, 15(3), 206

Untea, A. E., Varzaru, I., Saracila, M., Panaite, T. D., Oancea, A. G., Vlaicu, P. A., & Grosu, I. A. (2023). Antioxidant Properties of Cranberry Leaves and Walnut Meal and Their Effect on Nutritional Quality and Oxidative Stability of Broiler Breast Meat. *Antioxidants*, 12(5), 1084.

Bulgaru VC, Perteau AM, Grosu IA, Anghel AC, Pistol GC, Marin DE, Dinischiotu A, Taranu I. Effects and Underlying Mechanisms of Zearalenone Mycotoxin at Concentrations Close to the EC Recommendation on the Colon of Piglets after Weaning. *Agriculture*. 2023 Jul 10;13(7):1372.

Marin DE, Anghel AC, Bulgaru CV, Grosu I, Pistol GC, Cismileanu AE, Taranu I. The Use of Agro-Industrial Waste Rich in Omega-3 PUFA during the Weaning Stress Improves the Gut Health of Weaned Piglets. *Agriculture*. 2022 Aug 2;12(8):1142.

Grosu, I. A., Marin, D. E., & Țăranu, I. (2022). The pig gut microbiota analysis techniques, a comparison. *Archiva Zootechnica*, 25(1), 90-115.

Taranu, I., Hermenean, A., Bulgaru, C., Pistol, G. C., Ciceu, A., Grosu, I. A., & Marin, D. E. (2020). Diet containing grape seed meal by-product counteracts AFB1 toxicity in liver of pig after weaning. *Ecotoxicology and environmental safety*, 203, 110899.

Grosu, I., Pistol, G., Taranu, I., & Marin, D. (2019). The Impact of Dietary Grape Seed Meal on Healthy and Aflatoxin B1 Afflicted Microbiota of Pigs after Weaning. *Toxins*, 11(1), 25.

Grosu, I. A., Pistol, G. C., Marin, D. E., Cișmileanu, A., Palade, L. M., & 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. *Frontiers in veterinary science*, 7, 31.

Grosu, I. A., Cismileanu, A. E., Marin, D. E., & Taranu, I. (2021). The effects of a low dose OTA exposure on weanling piglet gut microbiota. *Archiva Zootechnica*, 24(1), 31-43.

Grosu, I. A., Pistol, G. C., Marin, D. E., Cișmileanu, A., Palade, L. M., & 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. *Frontiers in veterinary science*, 7, 31.

Grosu, I. A., Pistol, G. C., Taranu, I., & Marin, D. E. (2019). The impact of dietary grape seed meal on healthy and aflatoxin B1 afflicted microbiota of pigs after weaning. *Toxins*, 11(1), 25.

Palade, L. M., Habeanu, M., Marin, D. E., Chedea, V. S., Pistol, G. C., Grosu, I. A., ... & Taranu, I. (2019). Effect of dietary hemp seed on oxidative status in sows during late gestation and lactation and their offspring. *Animals*, 9(4), 194.

CONFERENCES AND SEMINARS

Conferences Effects of a low zearalenone concentration exposure on piglet microbiota Iulian Alexandru Grosu, Cristina Valeria Bulgaru, Gina Cecilia Pistol, Daniela Eliza Marin and Ionelia Taranu, 2023, Balotesti

The effects of exposure to low dose of ochratoxin A on piglet microbiota Iulian Alexandru Grosu, Ana Elena Cismileanu, Daniela Eliza Marin, Ionelia Taranu, 16th International Symposium of Animal Biology and Nutrition, 2021, Balotesti

Palade, Laurentiu Mihai; Marin, Daniela Eliza; Pistol, Gina Cecilia; Grosu, Iulian Alexandru; Gheorghe, Anca; Habeanu, Mihaela; Taranu, Ionelia. 2017. Dietary *Cannabis sativa* L. (Hemp) seed meal improves oxidative stress response in sows and offspring. 14th International Symposium of Animal Biology and Nutrition, 28-29 September 2017, Bucharest, Romania.

Gina Cecilia Pistol, Mihai Laurentiu Palade, Veronica Chedea, Iulian Grosu, Daniela Eliza Marin, Mariana Stancu and Ionelia Taranu. 2017.

THE EFFECTS OF GRAPE WASTE BIOACTIVE COMPOUNDS ON THE IMMUNE RESPONSE AND OXIDATIVE STRESS IN PIG KIDNEY. 14th International Symposium of Animal Biology and Nutrition, 28-29 September 2017, Bucharest, Romania.

TARANU Ionelia, PISTOL Gina Cecilia, MARIN Daniela Eliza, Mihai PALADE, CHEDEA Veronica, Iulian Grosu and STANCU Mariana. 2017. 11th World Congress on Polyphenols Applications, University of Vienna, June 20 - 21, 2017, Austria.

The impact of dietary grape seed meal on weaning piglets microbiota, Grosu Iulian, Pistol Gina, Palade Mihai, Marin Daniela, Cișmileanu Ana, Țăranu Ionelia, 15th International Symposium of Biology and Animal Nutrition, 2019, Bucharest

Alexandru Iulian GROSU, Oana-Alina SICUIA, Dobre Andreea, Călina Petruța CORNEA, *Evaluation of Some Bacillus spp. Strains for the Biocontrol of Fusarium graminearum and F. culmorum in Wheat*, Agriculture and Agricultural Science Procedia (2015) pp. 559-566

Grosu Iulian Alexandru, Siciua Oana Alina, Voaides Catalina, Dobre Andreea, Cornea Calina Petruta, *The biocontrol of Fusarium spp. with local isolates of Bacillus spp. strains*, European Biotechnology Congress 2015

Alexandru Iulian Grosu, Oana Ciobotaru, Andreea Dobre, Calina Petruta Cornea, *Fusarium spp. mycotoxin contamination – toxicity and its management by biological control strategies*, Lucrari Stiintifice Zootehnie si Biotehnologii vol.47 No.1 2014

ORGANISATIONAL SKILLS

Organisational skills -Organizational skills
-Experience in managing projects and teams

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

JOB-RELATED SKILLS

Job-related skills

-Good knowledge in Molecular Biology, Microbiology, Genetics, Science Ethics, Philosophy
-Understanding and manipulating technologies related to Molecular Biology: PCR, RT PCR, electrophoresis
-Understand and handling of related Bio Chemistry technologies: Mass spectrometry, spectrophotometry, thin layer chromatography, GC MS
-Responsible for the analysis of mycotoxins in the department of Biology IBNA
-Quantification of genes of interest using RT PCR, belonging to animals used in animal husbandry, in the department of Biology, IBNA
-Responsible for developing technical and scientific description of the projects subject to evaluation in three competitions in 2011 and 2013 Partnerships Program, funded by CDI.
-Member of research team of IBNA with contributions in projects of national and international management: *Proiect complex 8PCCDI0473/2018-2020- PC1: „Valorificarea reziduurilor agroalimentare prin solutii nutritionale de contracarare a contaminantilor prezenti in furaje”* – team member
ADER 9.2.1/2019-2022 „Evaluarea efectelor produse de diferiti contaminanti alimentari asupra sanatatii purceilor dupa intarcare si elaborarea de recomandari nationale si europene privind normele si limitele de toleranta pentru micotoxine” – responsible for project
Proiect Nucleu PN19 09 01 01 „Investigarea potentialului unor subproduse agro-industriale prelucrate prin fermentare de a modula procese fiziologice cu o importanta majora pentru obtinerea de performante, reducerea stresului oxidativ si a inflamatiei tranzitorii la purcei dupa intarcare”. – project team member, New formulas used to control and combat Oomycota in horticultural crops, Partnerships Program, UEFISCDI (2012 2015); Identification, characterization and usage of bioresources for obtaining useful substances and biodiversity conservation, Core Program (2009 2013); Biofuels common source of cross border cooperation and sustainable development of the area, Romania to Bulgarian border cooperation program (2011 2013).
-Involvement in the implementation of national projects through participation in the development and research of their theoretical and experimental (studies on gene therapy, antimicrobial peptides, methods of treating beekeeping diseases ; experimental design schemes and characterization of biologically active compounds from plant extracts with antioxidant and antimicrobial effects ; conducting instrumental analysis, applying techniques such as gas chromatography / mass spectrometry MALDI TOF; knowledge in extraction methods like percolation , maceration , unconventional methods for identification of alternative biofuels from energy crops, designing training courses for biofuel and bioethanol from safflower and sorghum respectively.
-Publication and dissemination of project results through scientific with participation at national and international level (posters and oral presentations conferences and writing articles

ORAL PRESENTATIONS

Oral Presentations

Effects of a low zearalenone concentration exposure on piglet microbiota
Iulian Alexandru Grosu, Cristina Valeria Bulgaru, Gina Cecilia Pistol, Daniela Eliza Marin and Ionelia Taranu, 17th International Symposium of Biology and Animal Nutrition, September 29th, IBNA Balotesti, Romania, 2023

Iulian Alexandru Grosu, Ana Elena Cismileanu, Daniela Eliza Marin, Ionelia Taranu
The effects of low dose OTA exposure on piglet microbiota, 16th International
Symposium of Animal Biology and Nutrition, 30 September-1 October, IBNA Headquarters, Balotesti,
Romania, 2021

Iulian Alexandru Grosu, The impact of dietary grape seed meal on weaning piglets microbiota, 15th
International Symposium of Animal Biology and Nutrition, 26-27 September 2019

Ionelia TARANU, Daniela Eliza MARIN, Mihai Laurentiu PALADE, Gina Cecilia PISTOL, Iulian Alexandru
GROSU, Ana Maria PERTEA. *Exploiting the effect of grape seed waste bioactive compounds on the gut-associated
lymphoid tissue of weaned pigs exposed to aflatoxin B1*. 6-8 May, 41st Mycotoxin Workshop, Lisbon, 2019.

Palade, Laurentiu Mihai; Marin, Daniela Eliza; Pistol, Gina Cecilia; Grosu, Iulian Alexandru; Gheorghe,
Anca; Habeanu, Mihaela; Taranu, Ionelia. 2017. Dietary *Cannabis sativa* L. (Hemp) seed meal improves
oxidative stress response in sows and offspring. 14th International Symposium of Animal Biology and
Nutrition, 28-29 September 2017, Bucharest, Romania.

TARANU Ionelia, PISTOL Gina Cecilia, MARIN Daniela Eliza, Mihai PALADE, CHEDEA Veronica, Iulian Grosu
and STANCU Mariana. 2017. 11th World Congress on Polyphenols Applications, University of Vienna, June
20 - 21, 2017, Austria.

Iulian Alexandru Grosu, Mihai Laurentiu Palade, Gina Cecilia Pistol, Daniela Eliza Marin, Ionelia Taranu, The
impact of dietary grape seed meal on healthy and Aflatoxin afflicted weaned pigs microbiota, The 12th
world congress on Polyphenols Applications, Bonn, Germany, 25-28 September, 2018

Alexandru Iulian GROSU, Oana-Alina SICUIA, Dobre Andreea, Călina Petruța CORNEA, *Evaluation of Some
Bacillus spp. Strains for the Biocontrol of Fusarium graminearum and F. culmorum in Wheat*, Agriculture and
Agricultural Science Procedia (2015) pp. 559-566

Grosu Iulian Alexandru, Sicuia Oana Alina, Voaides Catalina, Dobre Andreea, Cornea Calina Petruta, *The
biocontrol of Fusarium spp. with local isolates of Bacillus spp. strains*, European Biotechnology Congress 2015

Alexandru Iulian Grosu, Oana Ciobotaru, Andreea Dobre, Calina Petruta Cornea, *Fusarium spp. mycotoxin
contamination – toxicity and its management by biological control strategies*, Lucrari Stiintifice Zootehnie si
Biotehologii vol.47 No.1 2014

Alexandru Iulian GROSU, Florentina ISRAEL-ROMING, Oana-Alina SICUIA, Florica CONSTANTINESCU,
Gabriela POPA, Călina Petruta CORNEA, *Effect of some bacterial antagonists on growth and
mycotoxin production of Fusarium graminearum and F.culmorum isolates*, Scientific Bulletin. Series F.
Biotechnologies 2014