

PERSONAL INFORMATION

Laurentiu Mihai Palade



 (Romania)

 palade_laurentiu_mihai@yahoo.com

Sex Male | Date of birth 29/06/1986 | Nationality Romanian

WORK EXPERIENCE

06/2018–Present

R2 - Recognized Researcher

National Research-Development Institute for Animal Biology and Nutrition, IBNA Balotesti
Calea Bucuresti nr. 1 Balotesti, Romania, 077015 Balotesti (Romania)

<https://www.ibna.ro>

- analysis of mycotoxins in animal feed - detection and investigation of removal approaches;
- modern techniques for the extraction and assessment of bioactive compounds from different sources;
- study of enzymatic systems (antioxidant status) - Tecan microplate reader;
- chromatography techniques - UHPLC.

Business or sector Research

11/2014–06/2018

R1 - First Stage Researcher

National Research-Development Institute for Animal Biology and Nutrition, IBNA Balotesti
Calea Bucuresti nr. 1 Balotesti, Romania, 077015 Balotesti (Romania)

<https://www.ibna.ro>

- testing and characterizing mycotoxins from animal feeds;
- modern techniques for the extraction and assessment of bioactive compounds from different sources;
- use of UV-VIS spectroscopy techniques;
- study of enzymatic systems, Tecan microplate reader;
- chromatography techniques - TLC-densitometry, UHPLC;
- screening and characterization of polyphenols from different sources.

Business or sector Research

19/10/2015–13/11/2015

Internship

Short Term Scientific Mission - Cost Action at "Centro di ricerca per gli alimenti e la
nutrizione (NUT)"

Via Ardeatina 546, 00178 Rome (Italy)

- characterization of bioactive molecules in biological matrices
- chromatography techniques - LC-MS

Business or sector Research

10/2012–11/2014

Research Assistant

National Institute of Research and Development for Biological Studies
Splaiul Independentei St. No. 296, Sector 6, C.P. 17-16, Bucharest - Romania RO-060031,

- extraction of bioactive compounds from different sources;
- screening different compounds for phytoterapeutical activity;
- studies on molecular structures and molecular dynamics;

- chromatography techniques - GC-MS

Business or sector Research

10/2011–08/2012

Laboratory assistant

Mediterranean Agronomic Institute of Chania (MAICh), CIHEAM
 Alsyllo Agrokepiou, PO Box 85, 73100 Chania (Greece)

- supervision of master students in their laboratory duties;
 - involvement in multiple international research projects;
 - instrumental analytical techniques.

Business or sector Research

03/2011–06/2011

Internship position

Technical University of Denmark (DTU), Department of Chemical and Biochemical
 Engineering
 Søtofts Plads; Building 229, 2800 Kgs. Lyngby (Denmark)

- enzyme technology including purification, characterisation and kinetics;
 - instrumental analytical methods.

Business or sector Education

09/2007–04/2009

Translator (Academic)

University of Agronomical Sciences and Veterinary Medicine Bucharest, Romania
 59 Marasti Bd., 011464 Sector 1, Bucharest (Romania)

- translator from English to Romanian and Romanian to English;
 - translation of academic papers for international research programs

Business or sector Administrative and support service activities

EDUCATION AND TRAINING

01/10/2013–21/06/2017

PhD degree

University of Agronomic Sciences and Veterinary Medicine, USAMVB, Bucharest
 (Romania)

- organic chemistry, biochemistry, statistics
 - study of polyphenols in red wines (biochemistry)
 - chromatography techniques - LC-MS, GC-MS - coupled with chemometrics;
 - concentration dependent behaviour of polyphenols (antioxidant/pro-oxidant) - luminol
 chemiluminescence method (Tecan microplate reader);

10/2009–2011

Master of Science

Master of Science

Mediterranean Agronomic Institute of Chania (MAICh), CIHEAM
 Alsyllo Agrokepiou, PO Box 85, 73100 Chania (Greece)

General

- Organic chemistry, Biochemistry, Water relations in food, Microbiology, Food proteins and enzymes

Occupational

- Science applied to food and natural products (microbiology, biochemistry, water relations in food,
 shelf life assessment, food packaging)

- Occupational skills/techniques (basic principles, hygiene and safety, laboratory officer
 responsibilities)

09/2005–06/2009

Bachelor of Science - Biotechnologies

Undergraduate
 degree - Engineer

University of Agronomical Sciences and Veterinary Medicine Bucharest, Romania
59 Marasti Bd., 011464 Sector 1, Bucharest (Romania)

- General
- Chemistry, Microbiology, Animal pathology and microbiology, Enzymology
- Occupational
- Science applied to equipment (microbiology, chemistry, food safety and hygiene)- Occupational skills (laboratory principles and techniques, H.A.C.C.P.)
 - Statistics
 - Project management
 - Quality management

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	A1	A2	A1	A1	A2
French	A1	A2	A1	A1	A1
Greek	B1	B1	B1	A2	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Communication skills

- Team work and leadership in multicultural environment;
- Good communication skills - studying abroad.

Organisational / managerial skills

- Leadership - held the presidency of the Student Council (MSc), with student diversity of more than 150 students from 20 nationalities;
- Team management as laboratory officer during MSc studies (responsible for a team of 10 people)
- Laboratory supervision activities (currently responsible for teaching young researchers/students)
- Employee representative - research sector (2017-2019)

Job-related skills

- Good command of laboratory equipment (gained through MSc and PhD training)
- Good understanding of food chemistry and natural products production and analysis (gained through MSc and PhD training)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Proficient user	Independent user

Digital skills - Self-assessment grid

- Good command of Microsoft Office and Open Office tools;
- Data analysis packages (SAS JMP; SigmaPlot);
- Good command of graphical design packages (CorelDRAW Graphics Suite)
- Good skills of chromatography software (Xcalibur; Chromeleon)

Other skills

- Statistics (online courses)

Driving licence B

ADDITIONAL INFORMATION

Selected publications

Malićanin, Marko et al. 2014. "Content of Antioxidants, Antioxidant Capacity and Oxidative Stability of Grape Seed Oil Obtained by Ultra Sound Assisted Extraction." *Journal of the American Oil Chemists' Society* 91(6):989–99.

Tair, Asma et al. 2014. "Origanum Species Native to the Island of Crete: In Vitro Antioxidant Characteristics and Liquid Chromatography–mass Spectrometry Identification of Major Polyphenolic Components." *Natural Product Research* 28(16):1284–87.

Palade, L. M., & Chedea, V. S. (2016). Antioxidant/pro-oxidant action of polyphenols from grape seeds. In and D. F. R. E. J.M.L. Rodríguez (Ed.), *Grape Seeds: Nutrient Content, Antioxidant Properties and Health Benefits* (pp. 27–56). Ed. Nova Science Publ.

Marin, D. E.; Braicu, C.; Gras, M. A.; Pistol, G. C.; Petric, R. C.; Berindan Neagoe, I.; Palade, M.; Taranu, I., (2017), Low level of ochratoxin A affects genome-wide expression in kidney of pig. *Toxicol.*, 136, 67–77, doi: <https://doi.org/10.1016/j.toxicol.2017.07.004> .

Ciurescu, G.; Vasilachi, A.; Ropota, M.; Palade, M.; Dragomir, C., (2017), Beneficial effects of increasing dietary levels of raw lentil seeds on meat fatty acid and plasma metabolic profile in broiler chickens. *Indian J. Anim. Sci.*, 87, 1385–1390.

Marin, D. E.; Pistol, G. C.; Gras, M. A.; Palade, M. L.; 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:<https://doi.org/10.1016/j.yrtph.2017.07.031>

Taranu, I.; Habeanu, M.; Gras, M. A.; Pistol, G. C.; Lefter, N.; Palade, M.; Ropota, M.; Sanda Chedea, V.; Marin, D. E., (2018), Assessment of the effect of grape seed cake inclusion in the diet of healthy fattening-finishing pigs. *J. Anim. Physiol. Anim. Nutr. (Berl.)*, 102, e30–e42, doi:10.1111/jpn.12697.

Chedea, V. S., Palade, L. M., Marin, D. E., Pelmus, R. S., Habeanu, M., Rotar, M. C., ... & Taranu, I. (2018). Intestinal Absorption and Antioxidant Activity of Grape Pomace Polyphenols. *Nutrients*, 10(5), 588, doi:10.3390/nu10050588.

Marin, D. E., Pistol, G. C., 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-Schmiedeberg's archives of pharmacology*, 391(10), 1147-1156, doi:10.1007/s00210-018-1538-9

Palade, Laurentiu, and Mona Popa. "Polyphenol Fingerprinting Approaches in Wine Traceability and Authenticity: Assessment and Implications of Red Wines." *Beverages* 4.4 (2018): 75.

Palade, Laurentiu M., Constantin Croitoru, and Anis Arnous. "Preliminary assessment for the synthesis of lignin-type molecules using crude onion peroxidase." *Chemical Papers* (2018): 1-10.

Taranu, I., Marin, D. E., Palade, M., Pistol, G. C., Chedea, V. S., Gras, M. A., & Rotar, C. "Assessment of the efficacy of a grape seed waste in counteracting the changes induced by aflatoxin B1 contaminated diet in performance, plasma, liver and intestinal tissues of pigs after weaning." *Toxicol* (2019), 162:24-31

Chedea, V. S., Palade, L. M., Pelmus, R. S., Dragomir, C., & Taranu, I. "Red Grape Pomace Rich in Polyphenols Diet Increases the Antioxidant Status in Key Organs—Kidneys, Liver, and Spleen of

Piglets." *Animals* (2019), 9(4): 149.

Palade, L.M.; Habeanu, M.; Marin, D.E.; Chedea, V.S.; Pistol, G.C.; Grosu, I.A.; 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* (2019), 9(4), 194.

Reyes-Camacho, D., Vinyeta, E., Pérez, J. F., Aumiller, T., Criado, L., Palade, L. M., ... & Solà-Oriol, D. Phytogetic actives supplemented in hyperprolific sows: effects on maternal transfer of phytogetic compounds, colostrum and milk features, performance and antioxidant status of sows and their offspring, and piglet intestinal gene expression. *Journal of animal science* (2020), 98(1), skz390.

Grosu, I. A., Pistol, G. C., Marin, D. E., Cişmileanu, A., Palade, M. L., & TARANU, I. 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* (2020), 7, 31.