

PERSONAL INFORMATION

Turcu Raluca Paula



 Ilfov, Romania

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Sex Female | Date of birth 25/06/1991 | Nationality Romanian

WORK EXPERIENCE

10/2020 - Present

R2 - Recognized Researcher

National Research-Development Institute for Animal Biology and Nutrition (INCDBNA-IBNA Balotești), Laboratory of Chemistry and Nutrition Physiology

Calea Bucuresti no 1, Ilfov, 077015 Balotești (Romania)

- responsibilities within the Gas-Chromatography Department; fatty acid profile and cholesterol content determination from samples of plant and animal origin;
- statistical processing of experimental data and chemical analysis interpretation;
- research results dissemination through publications in specialized journals and participation in national and international scientific events;
- participation in animal trials;
- contributions to the elaboration of technical-scientific reports of projects;
- participation in the elaboration of scientific projects in research competitions;
- editorial team member of Archiva Zootehnica Journal.

Business or sector Research

06/2018 - 09/2020

R1 - First Stage Researcher

National Research-Development Institute for Animal Biology and Nutrition (INCDBNA-IBNA Balotești), Laboratory of Chemistry and Nutrition Physiology

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- responsibilities within the Gas-Chromatography Department; fatty acid profile and cholesterol content determination from samples of plant and animal origin;
- statistical processing of experimental data and chemical analysis interpretation;
- research results dissemination through publications in specialized journals and participation in national and international scientific events;
- participation in animal trials;
- contributions to the elaboration of technical-scientific reports of projects;
- participation in the elaboration of scientific projects in research competitions;
- editorial team member of Archiva Zootehnica Journal.

Business or sector Research

11/2016 - 05/2018

Research Assistant

National Research-Development Institute for Animal Biology and Nutrition (INCDBNA-IBNA Balotești), Laboratory of Chemistry and Nutrition Physiology

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- responsibilities within the Liquid Chromatography (HPLC) Department; amino acid profile, lutein and zeaxanthin content determination from samples of plant and animal origin;
- statistical processing of experimental data and chemical analysis interpretation;
- elaboration of materials and bibliographic studies specific to the field, offers and projects developed in the Laboratory of Chemistry and Nutrition Physiology;
- participation in animal trials;

Business or sector Research

05/2016 – 11/2016

Research Assistant Trainee

National Research-Development Institute for Animal Biology and Nutrition (INCDBNA-IBNA Balotești), Laboratory of Chemistry and Nutrition Physiology

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- learning the System Procedures and Test Procedures specific to the chromatography department.
- responsibilities within the Liquid Chromatography (HPLC) Department; amino acid profile, lutein and zeaxanthin content determination from samples of plant and animal origin;
- elaboration of materials and bibliographic studies specific to the field, offers and projects developed in the Laboratory of Chemistry and Nutrition Physiology.

Business or sector Research

EDUCATION AND TRAINING

01/10/2016 – 31/12/2019

PhD degree

University of Agronomic Sciences and Veterinary Medicine of Bucharest, 59 Marasti Blvd, District 1, 011464, Bucharest, Romania
 Doctoral School of Engineering and Management of Plant and Animal Resources, Animal Husbandry
 Thesis subject: The use of winery products in broiler diets to improve meat quality

01/10/2014 -07/2016

Master's degree

Ștefan cel Mare University, Faculty of Food Engineering, 13 University Street, 720229 Suceava, Romania
 Specialization: Environmental safety management and food safety

01/10/2010 – 07/2014

Engineer degree

Ștefan cel Mare University, Faculty of Food Engineering, 13 University Street, 720229 Suceava, Romania
 Specialization: Food control and expertise

09/2006 -06/2010

High school diploma

Mihai Eminescu National College, 57 Marasesti Street, 720214 Suceava, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills acquired through the activities carried out during the study years, but also in the professional environment, by participating in various national and international specialized scientific courses and events.

Digital skills

- Competent use of IT resources (Windows, Microsoft Office – Excel, Word, Power Point). Good use of CromQuest and TotalChrom chromatography software; statistical program for data processing StatView.

Organisational / managerial skills

- Ability to work in a team and involvement in any requested, scientific and / or administrative activity.
- Timely fulfilment of the received tasks from the hierarchical superior.
- Ability to work efficiently under pressure, obtained in terms of deadlines imposed when submitting research projects; handing over the technical-scientific reports of the projects; sending in order to publish some scientific papers with the assumption of certain terms etc.
- Carrying out the chromatographic determinations established in the experimental plans, according to the assumed terms.
- Elaboration of studies and bibliographic materials specific to research projects.

Job-related skills

- Good skills in gas chromatography (GC) and high-performance liquid chromatography (HPLC) methods.
- Competence to contribute to the scientific and logistical support development in UEFISCDI scientific research competitions and beyond.

Other skills

- Rapid adjustment to new work environments, acquired because of the responsibilities received to work in different compartments.

ADDITIONAL INFORMATION

Certifications

- Certificate of Internal Auditor in the Food Safety Management System of HACCP / ISO 22 000, TÜV Thüringen, Bucharest, no. registration 15/3331/01/03/13/775.
- Certificate no. 850 / P / C06, issued on 24.03.2017 by S.C. FiaTest S.R.L. on "Practical aspects related to quality assurance of analysis: Validation of methods and control of test results - in laboratories of physico-chemical analysis".
- Certificate no. 854 / A / C06, issued on 04.04.2017 by S.C. FiaTest S.R.L. on "High Performance Liquid Chromatography (HPLC) - Column Separation Theory, Instrumentation Used and Elements of HPLC Separation Practice".
- Certificate of graduation of the Psychopedagogical Training Program level I and level II - Ștefan cel Mare University of Suceava, Faculty of Education Sciences, Specialized Department with Psychopedagogical Profile.

Awards

- Best poster Award at the International Conference NUTRICON 2018: Food Quality and Safety, Health and Nutrition, Ohrid, Macedonia, for the following paper "The effect of using grape seeds meal as natural antioxidant in broiler diets enriched in fatty acids, on meat quality". Autori: **R.P. Turcu**, M. Olteanu, R.D. Criste, M. Ropota, T.D. Panaite, C. Șoica and D. Drăgotoiu.
- Honorary Diploma and Inventions Medal for the patent application "Diet for the breeding phase of broilers reared in heat stress." (OSIM registration no. A2017 / 00997 of 28.11.2017) awarded at the XXIVth International Exhibition of inventions, Iasi, 29-31 July 2020. Authors: R.D. Criste, T.D. Panaite, C. Tabuc, P.A. Vlaicu, M. Saracila, M. Olteanu, **R.P. Turcu**, C.P. Papuc.
- Diploma and Silver Medal for the patent application "Diet for the breeding phase of broilers reared in heat stress." (OSIM registration no. A2017 / 00997 of 28.11.2017) awarded at the International Exhibition of Inventions and Innovations "Traian Vuia" 3rd edition, Timișoara, June 15, 2019. Authors: R.D. Criste, T.D. Panaite, C. Tabuc, P.A. Vlaicu., M. Saracila, M. Olteanu, **R.P. Turcu**, C.P. Papuc.
- Diploma of Excellence for the patent application "Diet for the breeding phase of broilers reared in heat stress." (OSIM registration no. A2017 / 00997 of 28.11.2017) awarded at the International Salon of Scientific Research, Innovation and Inventors "Pro Invent" 17th edition, March 20-22, 2019, Cluj Napoca. Authors: R.D. Criste, T.D. Panaite, C. Tabuc, P.A. Vlaicu., M. Saracila, M. Olteanu, **R.P. Turcu**, C.P. Papuc.
- The second prize offered at the International Symposium on Animal Husbandry and Biotechnology, Timișoara for the paper "Bioproductive parameters and fatty acids profile of meat from broilers fed with flax meal and grape seeds meal". Authors: M. Olteanu, R.D. Criste, T.D. Panaite, M. Ropota, P.A. Vlaicu, **R.P. Turcu**, 2017.
- Special prize offered at the International Scientific Symposium Modern Animal Husbandry - Food Safety and Sustainable Development, USAMV Iasi for the paper "Determination of the feeding value of food industry by-products". Authors: T.D. Panaite, R.D. Criste, M. Ropota, V. Criste, G. Vasile, M. Olteanu, M. Mitoi, **R. Socoliuc**, Al. Vlaicu, 2016.

National patent applications

- OSIM registration no. A00315 / 3695 of 03.06.2020, *Diet for obtaining eggs with improved nutritional qualities from the perspective of antioxidant content*. Authors: T.D. Panaite, I. Varzaru; A.E. Untea, M. Olteanu, **R.P. Turcu**, M. Saracila, A. Vlaicu.
- OSIM registration no. A00755 of 28.09.2018, *Combined feed with a high cellulose level (7%) for laying hens*. Authors: V. Bunduc; T.D. Panaite, R.D. Criste, M. Olteanu, P.A. Vlaicu, I.V. Criste, **R.P. Turcu**, M. Lepadatu, M. Ropota.
- OSIM registration no. A2017/00997 of 28.11.2017, *Diet for the breeding phase of broilers reared in heat stress*. Authors: R.D. Criste, T.D. Panaite, C. Tabuc, P.A. Vlaicu, M. Saracila, M. Olteanu, **R.P. Turcu**, C.P. Papuc.
- OSIM registration no. A2017/01144 of 20.12.2017, *Cellulose-rich diet for broilers (14-42 days)*. Authors: T.D. Panaite, R.D. Criste, P.A. Vlaicu, M. Olteanu, M.G. Cornescu, C. Tabuc, **R.P. Turcu**, C. Soica.

Member of research projects

- PCCDI/2018-PC 3: Bird nutrition - a natural way to maintain a healthy digestive tract, performance, and food quality under conditions of antibiotic prohibition.
- ADER, Contract 9.1.2./2019: Research on phyto-additives using in poultry diets to reduce nitrogen environmental pollution.
- POC – SC AGROPREST 2005 SRL Subsidiary contract no. 684/04.02.2019 (Annex to the Financing Agreement no. 144 / 13.10.2016, code SMIS2014 + 107697): Compound feeds for laying hens to increase the nutritional quality of eggs.
- POC - AVITOR SRL Subsidiary contract no. 3283/25.05.2018 (Annex to the Financing Agreement no. 144 / 13.10.2016, code SMIS2014 + 107697): Nutritional solutions for obtaining eggs enriched in polyunsaturated fatty acids.

- IBNA-VALORIF, 2017-2020 IBNA: Institutional development towards scientific performance and impact in zootechnical practice.
- PN 19 09 0102/2019: Studies on the contribution of animal nutrition in maintaining production parameters and food quality from monogastric animals reared under conditions of high heat stress.
- P2-2.1-CI, OXISTOP, Contract no. 267CI/2018: Antioxidant potential valorisation of some vegetable by-products in laying hen diets.
- PN 18 20/ 2018: Strengthening animal nutrition research to increase the impact at national and international level.
- PN 1641 02.04: Oxidative status improving of the chicken meat by using wine by-products in broiler diets as natural antioxidants.
- PN 1641 03.02: Development and validation of analytical methods for determining the degradation of lipids from feed materials and foods of animal origin.
- PN 1641 03.03: Comparative research on the evolution of fatty acids concentration in milk in the conditions of intensive feeding and household system, in Romanian goats.
- PN 1641 04.01: Efficient nutritional solutions for maintaining the health of digestive tract of broilers raised under heat stress conditions.
- PN 1641 04.02: Research on the efficient use in monogastric feed of feed materials rich in cellulose
- PTE, BIOCROMIN, Contract no. 57/2016: Development of a new technology for enriching egg in carotenoids and trace elements, food with maximum safety on human health.
- PTE, LUMISOL Contract no. 43/2016: New nutritional solutions for laying hens, rich in cellulose, decisive in increasing the competitiveness of a poultry unit by reducing production costs and increasing the eggs quality.
- Bridge Grand Carromeggs, Contract no. BG 2/October 2016: Chicken egg enriched in n-3 polyunsaturated fatty acids and carotenoid compounds - functional food obtained by including in the diet of laying hens heat-treated flax seeds and some waste from vegetable processing.
- BRIDGE Grand Zeocowpro, Contract no. 11BG/2016: Innovative technologies for the use of natural zeolites in the feeding of dairy cows with a favourable impact on the environment and production efficiency.
- Ader 612. Contract no. 6.1.2./01.10.2015: Improving the capitalization of industrial by-products by developing for farm animals' innovative nutritional strategies friendly to animals, humans and the environment, a component of sustainable agriculture.
- TE (Young teams), Contract 301/2015: Obtaining a functional food (pork / poultry enriched in Zn), by using fodder concentrates, friendly to the environment.

Books and chapters in books

- A.E. Untea, T.D. Panaite, **R.P. Turcu**, I. Varzaru, S. Mironeasa, M. Saracila, P.A. Vlaicu, M. Olteanu, A. Dinischiotu, (2020). Noi strategii nutritionale pentru gaini ouatoare privind mentinerea sanatatii tractusului digestiv, performantelor si calitatii alimentelor in conditiile interzicerii antibioticelor; Editura Total Publishing; București, ISBN 978-606-9024-52-2.
- T.D. Panaite, R.D. Criste, M. Olteanu, M. Ropotă, P.A. Vlaicu, V. Criste, C. Panaite, G. Vasile, **R.P. Turcu**, (2018). Subproduse ale industriei alimentare valorificate în rețete furajere destinate păsărilor. Editura Total Publishing, Bucuresti, ISBN 978-606-9024-13-3.

Selected publications

- **R.P. Turcu**, T.D. Panaite, A.E. Untea, C. Șoica, M. Iuga and S. Mironeasa, (2020). Effects of supplementing grape pomace to broilers fed polyunsaturated fatty acids enriched diets on meat quality. *Animals* 10(6), 947; <https://doi.org/10.3390/ani10060947>
- **R.P. Turcu**, M. Olteanu, R.D. Criste, T.D. Panaite, M. Ropotă, P.A. Vlaicu, D. Drăgoteiu, (2019). Grapeseed meal used as natural antioxidant in high fatty acid diets for Hubbard broilers. *Brazilian Journal of Poultry Science (Revista Brasileira de Ciência Avícola)* 21(2): 001-012, <http://dx.doi.org/10.1590/1806-9061-2018-0886>, Print version ISSN 1516-635X; On-line version ISSN 1806-9061.
- P.A. Vlaicu, T.D. Panaite, **R.P. Turcu***, C. Tabuc, (2020). Dietary Origanum Vulgare oil and powder supplements for broilers (14-42 days). *Romanian Biotechnological Letters*, 25(5): 1922-1929, <http://doi:10.25083/rbl/25.5/1922.1929>.
- P.A. Vlaicu, T.D. Panaite, **R.P. Turcu** & M. Olteanu. (2020). Effect of feeding flax meal on milk fatty acids profiles and performance of Holstein dairy cows. *Indian Journal of Animal Sciences*, 90(5): 77–81.
- T.D. Panaite, R.D. Criste, P.A. Vlaicu, M. Saracila, C. Tabuc, **R.P. Turcu**, M. Olteanu, M. Buleandă, (2019). Influence of Artemisia annua on broiler performance and intestinal microflora. *Brazilian Journal of Poultry Science, (Revista Brasileira de Ciência Avícola)*, 21(4): 001-010, <http://dx.doi.org/10.1590/1806-9061-2019-1092>, Print version ISSN 1516-635X; On-line version ISSN 1806-9061.
- T.D. Panaite, R.D. Criste, M. Saracila, C. Tabuc, **R.P. Turcu**, M. Olteanu, (2018). The use of ascorbic acid and Artemisia annua powder in diets for broilers reared under heat stress. *Romanian Biological*

Letters, 23(5):13976-13985, <http://doi:10.26327/RBL2018.159>.

- V. Nour, T.D. Panaite, M. Ropota, **R. Turcu**, I. Trandafir and A.R. Corbu, (2018). Nutritional and bioactive compounds in dried tomato processing waste. *CYTA—Journal of Food*, 16(1): 222-229, <https://doi.org/10.1080/19476337.2017.1383514>.
- M. Saracila Mihaela, R.D. Criste, T.D. Panaite, P.A.Vlaicu, C. Tabuc, **R.P. Turcu**, M. Olteanu, (2018). *Artemisia annua* as phytogetic feed additive in the diet of broilers (14-35 days) reared under heat stress (32°C). *Brazilian Journal of Poultry Science*, (Revista Brasileira de Ciência Avícola), 20(4): 825-832, <http://dx.doi.org/10.1590/1806-9061-2018-0772>.
- **R.P. Turcu**, M. Sărăcilă, P.A. Vlaicu, P. Vişinescu and R.D. Criste, (2019). Obtaining eggs enriched in polyunsaturated fatty acids (PUFA) 2. Clinical studies, consumer perception and market of the PUFA-enriched eggs: A review. *Archiva Zootehnica*, 22(2): 86-119. ISSN-L: 1016-4855; ISSN online: 2344-4592.
- **R.P. Turcu**, M. Olteanu, T.D. Panaite, M. Ropota, (2019). The effects of using grape seed oil in laying hen diets enriched in polyunsaturated fatty acids on eggs quality. *World's Poultry Science Association Turkish Branch Abstract Book, Ankara 2019* ISBN: 978-975-97654-1-5, pp. 93-96. XVIII European Symposium on the quality of eggs and egg products and XXIV European symposium on the quality of poultry meat, Cesme-Izmir, Turcia.
- **R.P. Turcu**, M. Olteanu, R.D. Criste, T.D. Panaite, M. Ropota, P.A. Vlaicu, C. Soica Cristina, (2018). The use of flaxseed meal and grape seed flour (2% and 3%) as natural antioxidant in broiler diets. *Scientific Papers-Animal Science Series: Lucrări Ştiinţifice - Seria Zootehnie*, 69(23): 200-206, ISSN-L 1454-7368; Print ISSN 1454-7368; Electronic (online) ISSN 2067-2330, CD-ROM ISSN 2284-6964.
- **R.P. Turcu**, M. Olteanu, M. Ropota, M. Mitoi, D. Drăgotoiu, (2018). Characterization of some winery by-products used in animal feeds. *Scientific Papers Animal Science and Biotechnologies*, 51(1): 55-61, ISSN print 1841-9364; ISSN online 2344-4576; ISSN-L 1841-9364.
- **R.P. Turcu**, M. Olteanu, R.D. Criste, M. Ropota, T.D. Panaite, C. Soica, D. Dragotoiu Dumitru, (2018). The effect of using grape seeds meal as natural antioxidant in broiler diets enriched in fatty acids, on meat quality. *Journal of Hygienic Engineering and Design*, 25: 14-20, ISSN 1857- 8489.
- **R.P. Turcu**, C. Tabuc, P.A.Vlaicu, T.D. Panaite, M. Saracilă and R.D Criste, (2018). Effect of the dietary oregano (*Origanum Vulgare* L.) powder and oil on the balance of the intestinal microflora of broilers reared under heat stress (32°C). *Scientific Papers. Series D. Animal Science. LXI (1): 77-86*, ISSN 2285-5750; ISSN CD-ROM 2285-5769; ISSN-L 2285-5750; ISSN Online: 2393 – 2260.