

## CURRICULUM VITAE

### Personal information

First name/Surname

**PANAITE TATIANA DUMITRA**

Address

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Date of birth

18.02.1977

### Professional experience

Period

November 2020-Present

Name and address of employer

**The National Research And Development Institute for Animal  
Biology and Nutrition Balotesti (INCDBNA- Balotesti)**

Type of business or sector

Laboratory of Chemistry and Physiology of Animal Nutrition,  
*Department of Physiology*

Occupation or position held

Scientific researcher I

The main activities and responsibilities

- Deputy Head of Laboratory within the Department of Animal Physiology;
- Design and projects offers, for different research-development-innovation programs, for financing the scientific research activity related to the nutritional impact fields;
- Carrying out and coordinating operations related to achieving the scientific objectives of the institute;
- Carrying out documentation studies specific to research projects /directions;
- Guiding young researchers in the field of scientific activity;
- Organizing, leading and monitoring the development of experimental activities "in vivo";
- Editing/Collaborating in the editing of books, scientific papers, patent applications, etc.

Period

July 2015 - present

Name and address of employer

**The National Research And Development Institute for Animal  
Biology and Nutrition Balotesti (INCDBNA- Balotesti)**

Type of business or sector

Laboratory of Chemistry and Physiology of Animal Nutrition,  
*Department of Physiology*

Occupation or position held

Scientific researcher II

The main activities and responsibilities

- Scientific project coordinator in projects funded by MADR (1);
- Responsible for research projects in nutrition physiology (6 projects);
- Collaborator in international (1) and national (11) projects;
- Participation in national/international project competitions as project director (PED 2019) and project manager (PED 2019 respectively PN-III-CERC-CO-PTE-2-2019);
- Obtaining functional foods of animal origin;

- Organizing, leading and monitoring experiments;
- Modernization of experimental spaces for monogastrics;
- Editing/Collaboration of 3 scientific books (of which 1 book as first author and co-author of 2 specialized books); 84 scientific papers, of which: 14 ISI papers (5 first author papers and 9 collaborative papers); 60 BDI works (12 first author and 48 in collaboration); 10 popularization works
- Presentation of scientific papers at national and international symposia
- Collaboration with different Romanian economic agents and farmers; elaboration of technology transfer contracts (15)
- Obtaining patents (2), of which 1 patent - first author and 1 patent - co-author);
- Elaborationsubmission of PATENT documentation (16 applications, of which 5 as first author and 11 in collaboration);

Period

December 2008 - June 2015

Name and address of employer

**The National Research And Development Institute for Animal Biology and Nutrition Balotesti (INCDBNA- Balotesti)**

Type of business or sector

Laboratory of Chemistry and Physiology of Animal Nutrition,  
*Department of Physiology*

Occupation or position held

Scientific researcher III

The main activities and responsibilities

- Scientific and technical skills in animal nutrition field
- Development/optimization of compound feed;
- Interdisciplinary research to evaluate the basic nutrients digestibility of monogastric animal feed
- Studies on the use of unconventional feed materials in monogastric feed;
- Studies on the impact of farm animal breeding activity on the quality of the environment;
- Organizing\coordinating digestibility/balance experiments in monogastrics
- Feed quality and safety; animal, human and environmental friendly nutritional solutions
- Project manager (Innovation; Core) and member of national and international (2 EUREKA projects) teams;
- Elaboration of 22 scientific papers, of which: 3 ISI papers (in collaboration); 18 BDI works (3 first author; 15 in collaboration); 1 popularization work;
- PATENT documentation
- Elaboration/submission of (co-author of 7 applications)
- Development of technology transfer contracts (8)

Period

May 2007 - December 2008

Name and address of employer

**The National Research And Development Institute for Animal Biology and Nutrition Balotesti (INCDBNA- Balotesti)**

Type of business or sector

Laboratory of Chemistry and Physiology of Animal Nutrition,  
*Department of Physiology*

Occupation or position held

Scientific researcher

The main activities and responsibilities

- Project manager (2), project administrator (3) and collaborator in research projects in nutrition physiology (5);

- Determining the digestibility of fodder, the quality and safety of feed, obtaining functional foods;
- Elaboration of 7 BDI scientific papers, of which: 3 papers as first author and 4 collaborative papers;
- Participation in national and international scientific conferences / congresses/symposia

Period

April 2002 - May 2007

Name and address of employer  
Type of business or sector

**The National Research And Development Institute for Animal Biology and Nutrition Balotesti (INCDBNA- Balotesti)**  
Laboratory of Chemistry and Physiology of Animal Nutrition,  
*Department of Physiology*

Occupation or position held

Research assistant - trainee

The main activities and responsibilities

- Project administrator;
- Collaborator in monogastric digestibility experiments on establishing the digestibility of basic nutrients in farm animal feed;
- Establishing the quality of food of animal origin and its implications on consumer health;
- Organizing and coordinating digestibility experiments and ensuring that animal accommodation facilities meet or exceed current standards and breeding guidelines;
- Verification of procedures performed on animals to be in accordance with animal welfare legislation;
- Participation in symposia and scientific events;
- Author/Co-author of scientific papers (2 papers as first author and 3 collaborative papers);

Period

April 2001 - April 2002

Name and address of employer  
Type of business or sector

**The National Research And Development Institute for Animal Biology and Nutrition Balotesti (INCDBNA- Balotesti)**  
Laboratory of Chemistry and Physiology of Animal Nutrition,  
*Department of Physiology*

Occupation or position held

Research assistant - trainee

The main activities and responsibilities

- Preparation of the internship paper: "Techniques for assessing the nutritional value of feeds used in monogastric food"
- Collaborator in monogastric digestibility experiences;
- Collaborator in digestibility experiments and the balance of some nutrients in monogastrics (poultry and pigs);

## EDUCATION and TRAINING

Period

2009

Name and type of educational institution  
Field studied/occupational skills

**University of Agronomic Sciences and Veterinary Medicine of Bucharest (USAMV Bucuresti), Animal Science Faculty**  
Animal Science MASTER degree

Type of qualification/diploma obtained

Sustainable exploitation in agriculture  
Master Diploma (no.53/6 june 2006)

Period

1995 - 2000

Name and type of educational institution  
Field studied/occupational skills

**University of Agronomic Sciences and Veterinary Medicine of Bucharest (USAMV Bucuresti), Animal Science Faculty**  
Animal Science/ full time learning

Type of qualification/diploma obtained	<u>Bachelors' degree</u> : <i>The microclimate influence on productive performances in pigs</i> Engineer diploma (no. 5197/15 october 2001)
Period	<b>1991-1995</b>
Name and type of educational institution	<b>High-school „Vaceslav Harnaj” - veterinary medicine department</b>
Field studied/occupational skills	High-school classes Baccalaureate diploma (no. 41/21 august 1995)
<b>SKILLS and COMPETENCES</b>	<ul style="list-style-type: none"> <li>• Specialization internship in Germany, Rostock, within the international project FP6 "Feed for Pig Health", March 25 - April 7, 2007;</li> <li>• Documentation visit to the Central Institute of Zootechnical Research - Lalahan, Ankara, Turkey, December 17-20, 2006;</li> <li>• Course: RENAR "Legal obligations arising from the activity of testing laboratories and accredited certification/inspection authority. Preventing the emergence of legal liability of the organization ", November 29-30, 2005; Graduation certificate, no. 14195/8 / 30.11.2005</li> <li>• English training-improvement course (S.C. PICON S.A. - Advanced - computer science - consulting); Graduation certificate, no. 170 / 17.03. 2006</li> <li>• Training program for the occupation of TRAINER (SC CEPECOM SA); Graduation certificate series E, no. 0152689/26.11.2010</li> <li>• Member of the World's Poultry Science Association (WPSA), the Romanian branch;</li> <li>• Member of the European Federation of Animal Science (EAAP);</li> <li>• Reviewer at journals (ISI; BDI);</li> <li>• Member of evaluation commissions</li> </ul>
Native language	Romanian
Foreign languages	English
ability of reading	good
ability of writting	good
ability of speaking	good

#### Patent list

- Patent: no. 131834/30.07.2019 - FORAGE RECIPE ENRICHED WITH XANTOPHILES FOR LAYING HENS, authors: T.D. Panaite, I. Varzaru, R.D. Criste, M. Olteanu, N. Bordei, M. Popescu, Al. Suci
- Patent: no. 12935/28.07.2017- FEED COMPOUND FOR LAYING HEN NUTRITION, authors: Criste R D, Olteanu M, Vasilachi A, Cornescu M G, Panaite T D, Ropota M, Maros I, Untea A E, Dragomir C, Bercaru A M;

#### Project list as project director or project manager

- *ADER, Contract no. 6.1.2./2015, Improvement 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; contract value = 862,850 lei, of which 622,850 lei \_CO-IBNA; Project director (2015-2018);*
- *PN 1909 01.02: Studies on animal nutrition contribution in maintaining production parameters and food quality from monogastric animals raised under conditions of high thermal stress, contract value = 4960000 lei; Contract Manager (2019-2022)*
- *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; contract value = 812,711.00 lei; Contract Manager (2018-2020)*

- SC AGRO PERST 2005 SRL\_Subsiary contract no. 684 / 04.02.2019 (annex to the Financing Agreement no. 144 / 13.10.2016, code SMIS2014 + 107697), Feed formulation for laying hens in order to increase the nutritional quality of eggs; contract value = 941,443.00 lei; Contract Manager (2019-2021);
  - PCCDI / 2018 - PC 3 - «Poultry nutrition - a natural way to maintain the health of the digestive tract, performance and food quality under the conditions of antibiotics prohibition », contract value = 620,000.00 lei; Project Manager, (2018-2020);
  - PTE\_LUMISOL\_Contract 43/2016: Laying hens new nutritional solutions, rich in cellulose, decisive in increasing the competitiveness of a poultry unit by reducing production costs and increasing egg quality, contract value = 536,060.00 lei, Contract Manager (2016-2018)
  - BRIDGE GRAND\_CARROMEGGS, Contract no. 2BG / 2016: Laying hens 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 vegetable processing waste, contract value = 124,125.00 lei , Contract Manager (2016-2018)
  - NUCLEU 1641\_04.02, Research on the efficient use in monogastric feed of feed raw materials rich in cellulose, contract value = 380,000 lei, Contract Manager (2016-2017)
  - INNOVATION - Contract 23 DPST - EYE - Production of a new eggs assortment with impact in maintaining the health of consumers through its naturally improved nutritional qualities, contract value = 550,000.00 lei, Project Manager, (2013-2015);
  - National Program NUCLEU 09-38.02.03 - Implementation study of some vegetal products with antioxidant role in animal nutrition; contract value = 377,100 lei, Project Manager, (2012-2014);
  - BIOTECH 16 - SELENPLUS - Prevention, control and management of selenium deficiency in the plant - animal - human food chain; contract value = 220,000 lei, Project Manager, (2007 - 2008);
- I was also involved, as a member of laboratory team, in carrying out 30 national projects won in a competitive system
  - I was also involved, as a member of laboratory team, in carrying out 2 international projects won in a competitive system.

#### ISI articles

1. Panaite, T.D., Saracila, M., Papuc, C.P., Predescu, C.N., & Soica, C. (2020). Influence of Dietary Supplementation of Salix alba Bark on Performance, Oxidative Stress Parameters in Liver and Gut Microflora of Broilers. *Animals*, 10(6), 958. <https://doi.org/10.3390/ani10060958>
2. Tatiana Dumitra Panaite, Violeta Nour, Petru Alexandru Vlaicu, Mariana Ropota, Alexandru Radu Corbu & Mihaela Saracila, 2019. Flaxseed and dried tomato waste used together in laying hens diet. *Archives of Animal Nutrition* 73(3): 222-238. <https://doi.org/10.1080/1745039X.2019.1586500>.
3. Tatiana Dumitra Panaite, Silvia Mironeasa, Mădălina Iuga, Petru Alexandru Vlaicu, 2019. Liquid egg products characterization during storage as a response of novel phyto-additives added in hens diet. *Emirates Journal of Food and Agriculture* 31(4): 304-314, <https://doi.org/10.9755/ejfa.2019.v31.i4.1937>.
4. Panaite T. D., Criste R. D., Vlaicu P. A., Saracila M., Tabuc C., Turcu R. P., Olteanu M., Buleandră M., 2019. Influence of Artemisia annua on broiler performance and intestinal microflora. *Brazilian Journal of Poultry Science*, 2019. 21(4): 1-10 <http://dx.doi.org/10.1590/1806-9061-2019-1092>.
5. Tatiana Dumitra Panaite, Rodica Diana Criste, Mihaela Saracila, Cristina Tabuc, Raluca Paula Turcu, Margareta Olteanu, 2018. The use of ascorbic acid and Artemisia annua powder in diets for broilers reared under heat stress. *Romanian Biotechnological Letters*; Vol. 23, No. 5: 13976- 13985; <http://dx.doi.org/10.26327/RBL2018.159>.
6. Tatiana Panaite, Criste Rodica Diana, Mariana Ropota, Cornescu Gabriela Maria, Daniela Alexandrescu, Criste Virgil, Vasile Gabriela, Margareta Olteanu, Arabela Untea, 2016. *Romanian Biotechnological Letters*; Vol. 21, No. 4: 11754- 11762.
7. Untea, A. E., Varzaru, I., Panaite, T. D., Gavris, T., Lupu, A., & Ropota, M. (2020). The Effects of Dietary Inclusion of Bilberry and Walnut Leaves in Laying Hens' Diets on the Antioxidant Properties of Eggs. *Animals*, 10(2), 191. <https://doi.org/10.3390/ani10020191>

8. Turcu, R. P., Panaite, T. D., Untea, A. E., Șoica, C., Iuga, M., & Mironeasa, S. (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>
9. Popescu, R. G., Voicu, S. N., Pircalabioru, G. G., Ciceu, A., Gharbia, S., Hermenean, A., Georgescu, S. E., Panaite, T. D. & Dinischiotu, A. (2020). Effects of Dietary Inclusion of Bilberry and Walnut Leaves Powder on the Digestive Performances and Health of Tetra SL Laying Hens. *Animals*, 10(5), 823. <https://doi:10.3390/ani10050823>
10. Saracila, M; Panaite, TD; Tabuc, C; Soica, C; Untea, A; Varzaru, I; Wojdyto, A; Criste, RD (2020). Maintaining intestinal microflora balance in heat-stressed broilers using dietary creeping wood sorrel (*Oxalis corniculata*) powder and chromium (chromium picolinate). *Spanish Journal of Agricultural Research*, Volume 18, Issue 3, e0612. <https://doi.org/10.5424/sjar/2020183-16146>
11. Varzaru, I., Untea, A. E., Panaite, T., & Olteanu, M. (2020). Effect of dietary phytochemicals from tomato peels and rosehip meal on the lipid peroxidation of eggs from laying hens. *Archives of Animal Nutrition*, 1-13. <https://doi.org/10.1080/1745039X.2020.1813515>
12. M. Saracila, T.D. Panaite, C. Soica, C. Tabuc, M. Olteanu, C. Predescu, C.M. Rotar & R.D. Criste, 2019. Use of a hydroalcoholic extract of *Salix alba* L. bark powder in diets of broilers exposed to high heat stress. *South African Journal of Animal Science*. 2019, 49 (5): 942-954, <http://dx.doi.org/10.4314/sajas.v49i5.18>.
13. Untea A., Panaite T., Dragomir C., Ropota M., Olteanu M., Varzaru I., 2019. Effect of dietary chromium supplementation on nutritional quality and antioxidant status of broilers fed with n-3 PUFA enriched diets. *Animal*, 1-9. <http://dx.doi.org/10.1017/S1751731119001162>.
14. Turcu R. P., Olteanu M., Criste R.D., Panaite D.T., Ropota M., Vlaicu P.Al., Drăgoteiu D., (2019). Grapeseed meal used as natural antioxidant in high fatty acids diets for Hubbard broilers. *Brazilian Journal of Poultry Science*, 21(2): 1-12, <http://dx.doi.org/10.1590/1806-9061-2018-0886>
15. Varzaru I., Panaite T., Cornescu G.M., Olteanu M. (2019). Apparent faecal digestibility of essential amino acids from Ω3 PUFA diets for laying hens. *Brazilian Journal of Poultry Science*, v.21 / n.3 / 001-008 <http://dx.doi.org/10.1590/1806-9061-2019-1025>.
16. Saracila M., Criste R.D., Panaite T.D., Vlaicu P.A., Tabuc C., Turcu R., Olteanu M. (2018). *Artemisia Annu* as Phytogenic Feed Additive in the Diet of Broilers (14-35 Days) Reared under Heat Stress (32 °C). *Brazilian Journal of Poultry Science*, 20(4), pp825-832. <http://dx.doi.org/10.1590/1806-9061-2018-0772>
17. Violeta Nour, Tatiana D. Panaite, Mariana Ropota, Raluca Turcu, Ion Trandafir & Alexandru R. Corbu, 2018. Nutritional and bioactive compounds in dried tomato processing waste. *CyTA - Journal of Food*, 2018. 16:1, 222-229; <https://doi.org/10.1080/19476337.2017.1383514>
18. A. E. Untea, I. Varzaru, T. D. Panaite, M. Habeanu, M. Ropota, M. Olteanu & G. M. Cornescu., 2017. Effects of chromium supplementation on growth, nutrient digestibility and meat quality of growing pigs. *South African Journal of Animal Science*, 47 (3): 332-341; <http://dx.doi.org/10.4314/sajas.v47i3.10>.
19. Olteanu M., Criste R.D., Panaite T.D., Bunduc V., Panaite C.V., Ropota M., Mitoi M. *Brazilian Journal of Poultry Science*, 2016. Study on the Efficiency of Grape Seed Meals Used as Antioxidants in Layer Diets Enriched with Polyunsaturated Fatty Acids Compared with Vitamin E. 18 (4): 655-662, <http://dx.doi.org/10.1590/1806-9061-2016-0230>.
20. Olteanu Margareta, Criste Rodica Diana, Cornescu Gabriela Maria, Ropota Mariana, Panaite Tatiana, Varzaru Iulia, 2015. Effect of the dietary mulberry (*Morus Alba*) leaves given to broiler chickens. *Indian Journal of Animal Sciences*, 2015. 85(3): 291-295, pg. 71-75.
21. Iulia Varzaru, Arabela Elena Untea, Teodor Martura, Margareta Olteanu, Tatiana Dumitra Panaite, Maria Schitea, Ilie Van, (2013). Development and validation of an RP-HPLC method for methionine, cysteine and lysine separation and determination in corn samples, *Revista de Chimie*, vol. 64 vol. 64 (7), pag.673-679.
22. M. Olteanu, T. Panaite, G. Ciurescu and Criste R.D. 2012. The effect of dietary mulberry leaves on performance parameters and nutrient digestibility of laying hens. *Indian Journal of Animal Sciences*, 82 (8):914-917.
23. Untea A.E., Criste R.D., Panaite T., Costache I., 2011. Effect of the dietary oregano (*origanum vulgare*) on Cu and Zn balance in weaned piglets. *Journal of Trace Elements in Medicine and Biology*, Vol. 25 (1), S35-S40. <https://doi.org/10.1016/j.jtemb.2010.10.011>.