

## Curriculum Vitae



## CURRICULUM VITAE

### Personal information

First name / Surname **TULCAN, CAMELIA**  
 Address Samuil Şagovici Street, 82, Timisoara, Romania  
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 E-mail cameliatulcan@usab-tm.ro, tulcancamelia@gmail.com  
 Date of birth 30.09.1969

### Work experience

#### Dates 03. 2022- present

Occupation or position held Professor –Faculty of Engineering and Applied Technologies, Life Sciences University “King Michael I” from Timisoara (ULST)

Main activities and responsibilities Head of Quality management in laboratories and Good laboratory Practice, Chemistry and Biochemistry courses

Head of Antioxidant Systems Research Lab–Horia Cernescu Research Unit, AgriEco

Head of Quality Management Department, ULST,

PhD Coordinator, Biotechnology Domain

Evaluator in National Register of Romanian Association for Quality Assurance in Higher Education, Veterinary Medicine Commission (ARACIS),

Evaluator in Quality Agency for Higher Education Latvia,

Member in Administrative Board of Romanian Standardization Association (ASRO),

Contact person ULST for EFSA, METROFOOD, EUOPENSURE,

Technical evaluator Romanian Accreditation Association-SR EN ISO CEI 15189:2013,

Technical expert Romanian Accreditation Association-SR EN ISO CEI 17025:2018.

Name and address of employer Life Sciences University “King Michael I” from Timisoara, 119, Calea Aradului, Timişoara, 300645

Type of business or sector Education, research, laboratory quality management

#### Dates 03.2008-03.2022

Occupation or position held Assoc. Professor –Biochemistry Department, Faculty of Veterinary Medicine, USAMVB Timişoara

Main activities and responsibilities Education academic courses and chemistry and biochemistry laboratory practice with the students of Faculty of Veterinary Medicine, research, and administration activities.

Head of Antioxidant Systems Research Lab–Horia Cernescu Research Unit, AgriEco

Head of Quality Management Department, BUASVMT,

Name and address of employer Banat's University of Agricultural Sciences and Veterinary Medicine Timisoara, 119, Calea Aradului, Timişoara, 300645

Type of business or sector Education, research, laboratory quality management

#### Dates 03.2003-03.2007

Occupation or position held Lecturer

Main activities and responsibilities Education- academic courses and chemistry and biochemistry laboratory practice with the students of Faculty of Veterinary Medicine, research, and administration activities.

Chemistry laboratory design, according to standards of good laboratory practice

Name and address of employer	Banat's University of Agricultural Sciences and Veterinary Medicine Timisoara, 119, Calea Aradului, Timișoara
Type of business or sector	Education, research, laboratory quality management
Dates	<b>03.1999-03.2003</b>
Occupation or position held	Asistent
Main activities and responsibilities	Supervising of chemistry and biochemistry laboratory practice. Research specialization in clinical biochemistry and seminal fluids cryopreservation
Name and address of employer	Banat's University of Agricultural Sciences and Veterinary Medicine Timisoara, 119, Calea Aradului, Timișoara
Type of business or sector	Education, research
Dates	<b>08.1988-03.1999</b>
Occupation or position held	Laboratory Technician
Main activities and responsibilities	Laboratory analysis: haematology, biochemistry, toxicology, with UV VIS spectrophotometric methods
Name and address of employer	Timisoara City Hospital, Clinical Laboratory of Ascar Clinic, 12, Bdul Revoluției, Timișoara
Type of business or sector	Clinical laboratory
<b>Education and training</b>	
Dates	<b>12.2020</b>
Title of qualification awarded	Habilitation Thesis – Animal and Vegetal Resources Engineering Commission - Biotechnology field
Name and type of organisation providing education and training	University of Agricultural Sciences and Veterinary Medicine Cluj Napoca, Romania
Dates	<b>1999-2005</b>
Title of qualification awarded	PhD
Name and type of organisation providing education and training	Banat' s University of Agricultural Sciences and Veterinary Medicine Timisoara, Faculty of Veterinary Medicine
Level in national or international classification	Doctoral studies
Dates	<b>1995-1996</b>
Title of qualification awarded	Magister /master
Name and type of organisation providing education and training	Polytechnic "University of Timisoara, Faculty of Industrial Chemistry, Products of fine organic synthesis specialization
Level in national or international classification	Post graduate studies
Dates	<b>1989-1995</b>
Title of qualification awarded	Chemical engineer
Name and type of organisation providing education and training	Polytechnic "University of Timisoara, Faculty of Industrial Chemistry, specialization Organic Chemical Technology
Level in national or international classification	Education/university
<b>Personal skills and competences</b>	
<b>Courses</b>	
Training/improvement course "Automatization of solid phase extraction for water analysis" and "Circular dichroism, directions to use", Timisoara, April 2005.	
Short course on Medical Geology, Health and the Environment, May, Arad, 2005	
Ecole d'été: Pathologie et Pharmacologie moléculaires, Julie, Arad 2005	
<b>"Documents in quality management system"</b> , CCIAT, Timisoara, September 2006	
The project circle, technical, financial and legal aspects of FP7 project preparation and completion	
Training-Seminar – Timisoara, Regional Business Center, 26-27 October 2006	

Course –**SR EN ISO/CEI 17025: 2005 Requirements** , RENAR, Bucharest, 19-21 June 2007

Course –**SR EN ISO 19011: 2003 Requirements** , RENAR, Bucharest, 26-28 June 2007

Course – **Medical analyses laboratories' accreditation according to SR EN ISO 15189: 2007**, Medical laboratories –specific requirements for quality and competence, Timisoara, 27-29 September 2007

Course **ASRO – Validation of chemical methods in laboratory**, Timisoara 24-28.03.2008

Course **Project manager** – organized by Direction for Training, Professional Perfecting and Consultancy in the Chamber of Commerce, Industry and Agriculture Timisoara 07 July- 16 July 2008, obtained the certificate with nationally recognition, issued by Ministry of Labor, Social Solidarity and Family and Ministry of Education, Research and Youth

**Internal quality auditor** – SC SRAC Servicii Grup SA, Bucharest, April 2009, certificate no.0237339/29.05.2009

Training for internal evaluators, Bucharest, 18-19 February 2010

Training IISPV Bucharest – determination of pesticides residues in animal products and feed 25-28 May 2010

Train the teacher, Timisoara 05-09 Februarie 2010;

Hand-on training, lab on a chip technology, 2100 Bioanalyzer Agilent”, Timisoara 21 Septembrie 2010;

Considerations and correlations between clinic and genetic investigations in pathology, cytogenetic indicators and molecular with application in diagnosis, UMF Timisoara 08-29 November 2010

**Internal and external quality control**, Timisoara 26-27 November 2010

**Quality assurance specialist**, Timisoara 05.12- 16.12.2011, CCIAT Timisoara.

**Quality manager**, Bucuresti , 03-07.12.2012, TUV Austria;

**Quality Management Systems – Transition to ISO/CD 9001:2013**, 17-18.03.2014, SRAC Bucuresti, certificate no.1186/19.03.2014

**Lead External Auditor**, TUV Austria, 19.05.-23.05.2014, IRCA recognized TAR –AK/359/06.2014 Auditor

**Specialist chemist - Clinical Biochemistry**, Order of the Minister of Health, nr. 972/25.08.2016

**Internal auditor in public entities**, SC Expert Aktiv Group, 22-25 februarie 2018, certificate no 00256005/06.02.2018

**Internal auditor** of quality management systems according **ISO 9001:2015** and **ISO 19011:2011**, CCIAT Timisoara, 14.05.-22.06.2018.

**Internal auditor** of quality management system accordin **ISO 17025:2018** and **ISO 19011:2018**, TUV Austria, Timisoara 11.02.2019-13.02.2019.

**Training on knowledge transfer, obtaining, protection and capitalization of professional assets-** SR SR 13572: 2016, ASRO 10-12 iunie 2019

**Trainer Course COR 242401**, CCIAT Timisoara, 30.09.-08.11.2019, Timisoara

**Specialist chemist** immunochemistry-serology, Order of the Minister of Health nr. 1519/03.09.2020

**Method validation and quality control** of the results. Practical aspects related to ensuring the validity of the analysis results in a physico-chemical analysis laboratory - Fiatest Course Bucharest, 21-22 09.2020

**Evaluation of measurement uncertainty** in testing laboratories - Fiatest Course Bucharest 28-30.09.2020

**High performance liquid chromatography (HPLC)**. Module I: Theory and practices of HPLC separation, Module II: Notions of development and validation of test methods based on liquid-chromatographic separations - Fiatest Course Bucharest 12-14.04.2021

**Gas Chromatography (GC)**. Module I: Theory and practice of GC separation, Module II: Notions of development and validation of methods Fiatest Course Bucharest 19-21.04.2021

**Metrofood-RI: Traceability and comparability of results in food measurements**, University of Parma, Italy, 20-23 septembrie 2021

**Summer School „Food Safety Aspects of Integrated Food Systems”**, EFSA, Parma, 28-20.09.2021

## RESEARCH DOMAINS

Laboratory quality management

The evaluation of antioxidants and oxidative status in vegetal and animal matrix;

Bioactive compounds used in biotechnologies from food industry, pharmaceuticals and phyto-pharmaceuticals

Applied studies in the field of reproductive biotechnology.

**SKILLS AND COMPETENCES:** Clinical chemistry (biochemical determinations - classical and automatic system, electrophoresis in automatic systems, gel capillary electrophoresis with laser-induced fluorescence detection, ionogram-potentiometric method), immunochemistry (immunoturbidimetry, agglutination, radial immunodiffusion, immunochromatography, ELFA, EIA, ELISA, MEIA, CMIA, FEIA), instrumental analytical chemistry (UV-VIS spectrophotometry, fluorescence, chromatography - TLC, HPLC, LC/MS, GC/MS), quality management (ISO 9001, ISO 17025, ISO 15189, ISO 19011).

## PROJECTS

**BUASVMT Project Manager** - POC Project - Development and consolidation of the national METROFOOD-RI Node (acronym METROFOOD-RO), SMIS Code 2014+: 136213, Project Coordinator - IBA Bucharest, **2021-2023**, total budget **4,413,757.29 ron**

**P4 component project- manager P4- BUASVMT** - Research project: "Bioeconomic approach to antimicrobial resistance" -PN-III-P1-1.2-PCCDI-2017-0361, **2017-2021**, total budget **5,287,500 ron**

**Project manager** - The impact of cryopreservation on antioxidant systems in dog semen, CNCSIS, AT 259, **2003-2004**, **40800 ron**

**Member of the management team - 2009-2014;** POS CCE - Research, development of infrastructure, education and services in veterinary medicine and innovative technologies for RO05, SMIS-CSNR Code 2669, **43,951,701 ron**

### Research team member:

1. Research project PNCDI III, UEFISCDI, Nr. 15BG/2016, **2016-2018**, Natural products with antifungal activity, partner PANETONE SRL, member of the research team, responsible for method validation
2. Ensuring excellence in the activity of RDI within BUASVMT, ID 368, Projects to finance excellence in RDI, Subprogramme 1.2 - Institutional performance, Program 1 - Development of the national research and development system of the Ministry of Research and Innovation
3. Oncoimmunotherapy with "Natural Killer" cells carrying chimeric antigen receptors, cod SMIS 103662, 2016-2020, 8.910.531,86 ron
4. Support for students of the Faculty of Veterinary Medicine in the first year of study, who are at risk, in order to ensure academic success, nr. AG 183/SGU/NC/II , **2019-2021**, 187 434 ron
5. Systems for reducing mycotoxin contamination of cereals and medicinal plants in order to conserve indigenous species and traditional products in the area of Romania - Serbia - Croatia. Chemist (research), SEE-ERA.NET PLUC nr. 139/01 **2010-2012; 148320 €**
6. Waste management and environmental protection in the plains of the Banat area. Chemist (research). Cross-border cooperation program, **2007-2013**, PHARE 2007-2010 RO 2006 018-448.01.01.25, **475000 €**
7. Training of extension and consulting specialists, food and agriculture inspectors, researchers for the Western Region, part of the South-West Region and part of the North-West Region - ROMANIA, Member of the research team, MAKIS Loan 4758 RO, **2008- 2010**
8. Interdisciplinary training and research platform-Organic, sustainable agriculture and food security, 37/2006, **2006-2008; 3.861.000 ron**
9. Study of the influence of the administration of natural extracts in the stimulation of antioxidant systems in animals under oxidative stress , CNCSIS, A 630, **2003-2004, 50000 ron**
10. Impact of cumulative aluminum intake on broiler chicks (hematological, biochemical, bioproductive, morpho- and histopathological aspects), CNCSIS, A 611, **2003-2004, 45000 ron**
11. Study on embryonic mortality - management of gestation in cows, CNCSIS, A 516, **2003-2004, 55000 ron**

## MAIN PUBLICATIONS:

Loredana Plustea, Monica Negrea , Ileana Cocan , Isidora Radulov, Camelia Tulcan, Adina Berbecea, Iuliana Popescu, Diana Obistoiu, Ionela Hotea, Gabriel Suster, Adriana Elena Boeriu, Ersilia Alexa, Lupin (*Lupinus spp.*)-Fortified Bread: A Sustainable, Nutritionally, Functionally, and Technologically Valuable, Solution for Bakery Foods, 2022, 11, 2067. <https://doi.org/10.3390/foods11142067>

Tulcan Camelia (2021) - Quality management systems in biotechnology laboratories, Eurobit, Timisoara, ISBN 978-973-132-844-7;

Zarcu Simona, Tulcan Camelia Zeolites applications in Veterinary Medicine , capitol on line in "Zeolites - New Challenges", Intechopen, 2019, DOI: 10.5772/intechopen.87969, eBook (PDF) ISBN: 978-1-83880-850-1;

Tulcan Camelia - Cryopreservation of canine semen, 2005, Brumar-Timisoara I.S.B.N. 973-602-119-X;

Olariu Lucia, Tulcan Camelia - Veterinary biochemistry, 2010, Eurostampa, Timisoara, ISBN 978-606-569-185-8;

Boldura O-M, Marc S, Otava G, Hutu I, Balta C, Tulcan C., Mircu C. (2021) Utilization of rosmarinic and ascorbic acids for maturation culture media in order to increase sow oocyte quality prior to IVF, *Molecules* 26(23):7215, IF 4,148

Cristina R.T., Kocsis R., Tulcan C., Alexa E., Boldura O.M., Hulea C.I., Dumitrescu E., Radulov I., Muselin F. (2020) Protein structure of the venom in nine species of snake: from bio-compounds to possible healing agents, *Brazilian Journal of Medical and Biological Research*, 53(1), ISSN 1414-431X, IF 1,848;

Alexa E., Dehelean C., Poiana M.A., Radulov I., Campean A.M., Bordean D.M., Tulcan C., Pop G, (2013) The occurrence of mycotoxins in wheat from western Romania and histopathological impact as effect of feed intake, *Chemistry Central Journal*, Vol. 7, ISSN: 1752- 153X, IF1,663;

Tulcan C., Igna V., Ahmadi M., Zarcu S., Motoc M., Borza C. (2013) Quantitative Analysis of Superoxide Ions, Hydroperoxide and Lipoperoxidation Products in Characterization of Fresh Organic Fluid Quality, *Revista de chimie*, Vol. 64, 2, ISSN 0034-7752, IF 0,677;

Marc S., Kirovski D., Mircu C., Hutu I., Otava G., Paul C., Boldura O.M., Tulcan C\*. (2018) Serum Protein Electrophoretic Pattern in Neonatal Calves Treated with Clinoptilolite, *Molecules*, Vol. 23,6, ISSN: 1420-3049, IF 3,098;

Ahmadi M., Tulcan C\*, Scurtu M., Zarcu S., Motoc M., Borza C. (2013) Investigations after manganese overdoses in Wistar rats, *Revista de Chimie*, Vol. 64, 5, ISSN 0034-7752, IF 0,677;

#### **Awards:**

„Best Poster” award at the 5th Biannual Congress of the European Veterinary Society for Small Animal Reproduction

PN-III-P1-1.1- PRECISI-2018- 25541 UEFISCDI - awarding of research results

PNII RU-PRECISI-2013-7-3211 UEFISCDI- awarding of research results

PN-III-P1-1.1- PRECISI-2021- 62820 UEFISCDI – awarding of research results

Diploma of Excellence, Gold Medal, , proinvent, Cluj Napoca 2020, Natural preparations with antifungal action used as protective agents in vegetable crops

Bronze Medal, Euroinvent, Iasi 2017, International Federation of Inventors Asociation, Protocol for detection of *Ammodytes ammodytes* venom adulteration

**Technical evaluator:** SAPARD grant, DSVSA Timisoara, mai 2007;

**Guest expert** - EU- TAIEX Expert Mission to Strengthen Laboratory Capacities in Animal Diseases Diagnosis AGR IND/EXP 63176, Food Safety and Veterinary Institute BILAL GOLEMI, Tirana, 12.12.-16.12.2016;

#### **International fellowship grants:**

**Hungary** – *Szent Istvan* Faculty of Veterinary Medicine – Budapest, 09. 2003- 01. 2004;

**Slovenia** – *Jozef Stefan Institut* Ljubljana – Department of Molecular and Biomedical Sciences - Prof. Igor Krizaj - internship in protein purification and characterization techniques, RP-HPLC, FPLC, Sample analysis via tandem mass spectrometry and analysis of the N-terminal sequence, 16.09.2018-13.10.2018.

## PERSONAL SKILLS AND COMPETENCES

Maternal language	<b>Romanian</b>				
Other language(s)					
	<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>
	Listening	Reading	Spoken interaction	Ascoltare	
<b>Limba engleză</b>	Good	Good	Good	Good	Good

(\*) Common European Framework of Reference for Languages

Computer skills and competences *Microsoft Word, Excel, Power Point, Visio*

Driving license B category

**Additional information** **Membership of professional bodies:**  
European Federation of Biotechnology  
American Chemistry Society  
International Society of Toxinology  
Federation of European Biochemical Society  
International Union of Biochemistry and Molecular Biology  
World Veterinary Association  
European Federation of Veterinarians  
East-West Veterinary Cooperation and Exchange Association  
Balkan Veterinary Association and Black Sea Area  
Order of Biochemists, Biologists and Chemists in the Romanian Health System  
Romanian Society of Biochemistry and Molecular Biology  
General Association of Veterinarians in Romania

14.09.2022

Prof.habil.dr.ing. Tulcan Camelia