

Europass Curriculum Vitae



<p>Personal information</p> <p>First name(s) / Surname(s) Address(es) Telephone(s) Fax(es) E-mail Nationality Date of birth Gender</p>	<p>Andrei Sanda Maria</p>
<p>Work experience</p> <p>Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector</p>	<p>Since 2015 <i>Professor</i>, Department of Biochemistry Course and practical works of Biochemistry and Molecular Biology, Clinical Laboratory, Analytical Chemistry University of Agricultural Sciences and Veterinary Medicine Cluj, Faculty of Veterinary Medicine, 3-5, Calea Manastur, 400372, Cluj-Napoca, Romania higher education</p>
	<p>2007 - 2015 <i>Associate Professor</i>, Department of Biochemistry Course and practical works of Biochemistry and Molecular Biology, Clinical Laboratory, Analytical Chemistry USAMV, Faculty of Veterinary Medicine, Cluj-Napoca, Romania higher education</p>
	<p>2002 - 2007 <i>Lecturer</i>, Department of Biochemistry Course and practical work in Biochemistry, Clinical Laboratory, Analytical Chemistry, Biotechnology in protein synthesis USAMV, Faculty of Veterinary Medicine, Cluj-Napoca, Romania higher education</p>
	<p>1997 - 2002 <i>Assistant</i>, Department of Biochemistry Practical works in Biochemistry USAMV, Faculty of Veterinary Medicine, Cluj-Napoca, Romania higher education</p>
	<p>1995 - 1997 <i>Assistant</i>, Department of Biochemistry Practical work in Biochemistry USAMV, Faculty of Veterinary Medicine, Cluj-Napoca, Romania higher education</p>
	<p>1990 - 1995 <i>technician</i>, Department of Biochemistry</p>

	Preparation of laboratory and practical works for students USAMV, Faculty of Veterinary Medicine, Cluj-Napoca, Romania higher education									
	1987 - 1990 <i>Laboratory Quality Control - Microbiology</i> Analysis samples of raw materials and finished products Farmaceutic Company „Terapia” Cluj-Napoca									
Education and training										
Dates	Since 2018									
Title of qualification awarded	Habilitated professor, PhD supervisor, Doctoral School of Veterinary Medicine									
Principal subjects/ skills covered	Clinical Biochemistry									
Name and type of organisation providing education and training	University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania									
	1998 - 2003 PhD in Medical Sciences, Veterinary Medicine Specialization Thesis: Morphological and biochemical studies of spontaneous and experimental tumor tissues, Scientific leader: Prof. A.I. Baba University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania									
	2005 –2006 Post-doctoral scholarship funded by the Francophone University Agency (AUF) Milk proteomics techniques (HPLC, mono and two-dimensional electrophoresis, mass spectrometry, Western blotting) Unit of Genetics and Physiology of lactation (LPG), French National Institute of Agronomic Research (INRA), Jouy en Josas-Paris, France Postdoctoral research project									
	January 2000 - April 2000 Doctoral scholarship - Erasmus / Socrates Analysis of lipids and lipid components in animal tissues by chromatographic techniques (thin layer chromatography, gas chromatography) University I, Bordeaux, France Diploma of Specialized Higher Education									
	August 1994 - September 1994 Postgraduate scholarship Chemistry of Natural Compounds University of Bern, Institute of Organic Chemistry / Swiss Academy of Sciences Specialization course in the Chemistry of Natural Compounds									
	1987 - 1993 Chemical Engineer Diploma, Organic Chemical Technology Specialization Organic Chemistry and Organic Chemical Technology Faculty of Chemistry, Babes-Bolyai University, Cluj-Napoca, Romania									
	1983 - 1987 Baccalaureate Diploma Profile Industrial Chemistry High School of Natural Sciences, Cluj-Napoca, Romania									
Personal skills and competences										
Native language (s)	romanian									
Other language(s)	French, English									
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
French language	C1	Advanced level	C1	Advanced level	C1	Advanced level	B2	Intermediary level	B2	Intermediary level
English language	C1	Advanced level	C1	Advanced level	B2	Intermediary level	C1	Advanced level	B2	Intermediary level
	(*) <i>Common European Framework of Reference for Languages</i>									

Social skills and competences	<ul style="list-style-type: none"> • Teamwork • Good communication skills obtained as a result of internships in different European universities (other than those presented in the chapter Education and training): July 2009 - August 2009: Internship, Faculty of Veterinary Medicine Lisbon, Portugal July 2011 - August 2011: Research and documentation internship at the Genetics and Lactation Physiology Unit (LPG), INRA, Jouy en Josas - Paris, France • In the academic year 2005-2006 I was invited, as an associate professor, and I presented 8 courses of Veterinary Clinical Biochemistry at the Faculty of Veterinary Medicine "Maison d'Alfort", Paris, France. • Awards, diplomas, medals, distinctions. <ul style="list-style-type: none"> • Awarding research results, UEFISCDI - 6 articles (2010, 2011, 2012, 2014, 2015, 2016) • Ioan Adameșteanu Prize (2014) of the "Gheorghe Ionescu-Sisești" Academy of Agricultural and Forestry Sciences for the work Oxidative stress and natural antioxidants (authors: Sanda Andrei, Andrea Bunea, Adela Pinteia) awarded on December 17, 2015 • Member of various professional and scientific associations and societies: <ul style="list-style-type: none"> • National: Romanian Society of Biochemistry and Molecular Biology (SRBBM), Romanian Society of Chemistry, Romanian Society of Comparative and Experimental Pathology. • International: European Lipid Federation EuroFedLipids; European Plant Science Organization; Central European Group for Separation Sciences; European Society for Separation Sciences.
Organisational skills and competences	<p>Administrative activities (faculty and university):</p> <ul style="list-style-type: none"> • Quality Manager, Department I - Preclinical, period 2012 - 2015 • Member of the USAMV Senate Cluj, 2015 • Vice Dean - FMV Cluj scientific research activity, since November 2015 • Coordinator of the French Veterinary Medicine Study Program since 2016 • USAMV Cluj Bulletin Editor, MV series, from 2015 • Organizer of the USAMV International Symposium Cluj, since 2016 • Member of the Organizing Committee of the International Pigments in Food Symposium, Cluj, 2016 and 2023 <p>Good organizational skills and management experience in research projects (3 projects as project manager)</p>
Technical skills and competences	<ul style="list-style-type: none"> • General biochemistry, Clinical biochemistry, Enzymology • Chromatographic analysis - column chromatography, thin layer, HPLC and GC • UV-Vis spectroscopy, mass spectrometry (Maldi-Tof) • SDS-PAGE electrophoresis and 2D-PAGE electrophoresis • Western blot
Computer skills and competences	Operate various computer programs (editing, image processing, databases): Photoshop, Access, Windows, Excel, PowerPoint
Annexes	Selective list of publications and complete list of research projects

► Scientific and didactic publications

▪ 5 books as single author, 5 books as first author and 3 books as a co-author (of which: 2 specialized books; 6 teaching manuals and 5 laboratory guides).

▪ Specialized books

1. **ANDREI SANDA**, IOAN STEFAN GROZA, PINTEA ADELA, SIMONA CIUPE, FLOARE CHIRILA, MIRELA MICLEAN, *Fiziologia și patologia glandei mamare la vacă*, Editura AcademicPres Cluj, 2010, ISBN: 978-973-744-232-1
2. **ANDREI SANDA**, BUNEA ANDREA, PINTEA ADELA, *Stresul oxidativ și antioxidanți naturali*, Editura AcademicPres Cluj, 2014, ISBN: 978-973-744-354-0

▪ Teaching manuals (selective list)

1. **ANDREI SANDA**, RUGINA DUMITRITA, *Curs - Biochimie și Biologie Moleculară*, Editura AcademicPres Cluj, 2014, ISBN: 978-973-744-353-3
2. **ANDREI SANDA**, *Cours Biochemistry and Molecular Biology*, Editura Academic Pres Cluj, ISBN: 978-973-744-461-5
3. **ANDREI SANDA**, *Cours Biochimie et Biologie Moleculaire*, Ed. Editura Colorama, 2017, ISBN 978-606-8778-37-2

▪ Laboratory guides (selective list)

1. **ANDREI SANDA**, ADELA PINTEA, *Vitamine, enzime, hormoni – analize biochimice*, Editura CLUSIUM, Cluj-Napoca, 2004, ISBN 973-555-434-8
2. **ANDREI SANDA**, ADELA PINTEA, CONSTATIN BELE, *Veterinary Biochemistry – Practical work*, Editura AcademicPres Cluj, 2012, ISBN: 978-973-744-235-2
3. PINTEA ADELA, **ANDREI SANDA**, CONSTATIN BELE, RUGINA DUMITRITA, *Chimie și Biochimie - Caiet de lucrări practice*, Editura Academic Pres Cluj, ISBN: 978-973-744-461-5

Scientific articles published (selective list):

I have published 32 papers in ISI-rated journals with impact factor; 24 papers and abstracts in ISI indexed volumes and ISI Proceedings indexed volumes; 90 papers in journals indexed in other international databases (PubMed, MedBioWorld, etc.); 30 papers presented at the Symposium / International Congresses (published in summary) and 14 at the National Symposium.

Articles published in ISI journals (selective list):

1. BOUMAHROU N., **ANDREI S.**, G. MIRANDA, C. HENRY, J.J. PANTHIER, P. MARTIN, AND S. BELLIER, The major protein fraction of mouse milk revisited using proven proteomic tools, *Journal of Physiology and Pharmacology*, vol. 60, supplement 3, IF= 4.466
2. **ANDREI S.**, MATEI S., FIT N., CERNEA C., CIUPE S., BOGDAN S., GROZA I. S., Glutathione peroxidase activity and its relationship with somatic cell count number of colony forming units and protein content in subclinical mastitis cow's milk, *Romanian Biotechnological Letters* vol. 16, no. 3, 6209 – 6217, 2011, IF= 0.363
3. BOUMAHROU N., BEVILACQUA C., C.BEAUVALLET, MIRANDA G., **ANDREI S.**, E. REBOURS, J.J. PANTHIER, S. BELLIER, P.MARTIN, Evolution of major milk proteins in *Mus musculus* and *Mus spretus* mouse species: a genoproteomic analysis, *BMC Genomics*, 2011, 12:80 <http://www.biomedcentral.com/1471-2164/12/80>, IF= 4.21
4. BUNEA A., D. RUGINA, A. PINTEA, **ANDREI S.**, BUNEA C., R. POP, C. BELE, Carotenoid and fatty acid profiles of bilberries and cultivated blueberries from Romania, *Chemical Papers*, 2012, DOI: 10.2478/s11696-012-0162-2, IF= 1,096
5. PINTEA A., F. DULF, A. BUNEA, C. MATEA, **ANDREI S.**, Comparative analysis of lipophilic compounds in eggs of organically raised ISA Brown and Araucana hens, *Chemical Papers*, 2012, DOI: 10.2478/s11696-012-0219-2, IF= 1,096
6. BOLFA P. F., C. LEROUX, A. PINTEA, **ANDREI S.**, C.CATOI, M. TAULESCU, F.TABARAN, M. SPÎNU, Oxidant–antioxidant imbalance in horses infected with equine infectious anaemia virus, *The Veterinary Journal* 192 (2012) 449–454, IF= 2.796
7. GAL A.F., **ANDREI S.**, C. CERNEA, M. TAULESCU, C.CATOI, Effects of astaxanthin supplementation on chemically induced tumorigenesis in Wistar rats, *Acta Veterinaria Scandinavica* 2013, 54:50 doi:10.1186/1751-0147-54-50, IF= 1,370
8. COZMA A., **ANDREI S.**, PINTEA A., MIERE D., FILIP L., LOGHIN F., FERLAY A., Effect of hemp seed oil supplementation on plasma lipid profile, liver function, milk fatty acid, cholesterol, and vitamin a concentrations in carpathian goats, *Czech J. Anim. Sci.*, 60, 2015 (7): 289–301, factor de impact: 1,183
9. **ANDREI S.**, S. MATEI, D. RUGINĂ, L. BOGDAN, C. ȘTEFĂNUȚ, Interrelationships between the content of oxidative markers, antioxidative status, and somatic cell count in cow's milk, *Czech J. Anim. Sci.*, 61, 2016 (9): 407–413, factor de impact: 0.809
10. BUNEA A., **ANDREI S.***, C. EL-MAHDI, A. CUCERDEAN, F. D.BORA, Z. DIACONEASA, A. PINTEA; Anthocyanins, carotenoids and antioxidant activity of coloured commercially available juices, *STUDIA UBB CHEMIA*, LXIV, 2, Tom I, 2019 (p. 111-126); IF=0.275

11. BUNEA Andrea, **ANDREI S.***, C. EL-MAHDI, A. CUCERDEAN, F. D.BORA, Z. DIACONEASA, A. PINTEA; Anthocyanins, carotenoids and antioxidant activity of coloured commercially available juices, *STUDIA UBB CHEMIA, LXIV, 2, Tom I, 2019* (p. 111-126).
12. AL URSACHE, V MIRCEAN, M DUMITRACHE, **ANDREI S.**, L ȘTEFĂNUȚ, V COZMA, R CĂTANĂ, M CERNEA; Is routine disinfection efficient in preventing contamination with *Toxocara canis* eggs?; *Journal of Helminthology*, 2020, 94, e60, 1–4. <https://doi.org/10.1017/S0022149X1900052X>, IF=1.436
13. GAL AF, L STAN, F TĂBĂRAN, D RUGINĂ, AF CĂTOI, **ANDREI S.**, Chemopreventive Effects of Propolis in the MNU-Induced Rat Mammary Tumor Model, *Oxidative Medicine and Cellular Longevity*, 2020, Article ID 4014838, <https://doi.org/10.1155/2020/4014838>, IF=4.868
14. BOGDAN S, RAFA H, LUCA V, , DULF F, OBER C, PESTEAN C, OANA L, **ANDREI S.**, Hypothermia effects on liver and kidney oxidative stress parameters in an experimental model of sepsis in rats, *Journal of Veterinary Research*, 64, 187-195, 2020, IF=0.829
15. BUZA V, CĂTANĂ L, **ANDREI S.**, ȘTEFĂNUȚ C, RĂILEANU S, MATEI C, VLASIUC I, CERNEA M; In vitro anthelmintic activity assessment of six medicinal plants aqueous extracts against donkey strongyles; 2020; *Journal of Helminthology* 94, DOI: 10.1017/S0022149X20000310, IF=1.436
16. NOVAC C, **ANDREI S.**, The Impact of Mastitis on the Biochemical Parameters, Oxidative and Nitrosative Stress Markers In Goat's Milk: A Review, *PATHOGENS*, 2020, Volume: 9 Issue: 11 , IF=3.018
17. DANIELA HANGANU, MIHAELA NICULAE, IRINA IELCIU, NELI-KINGA OLAH, MELANIA MUNTEANU, RAMONA BURTESCU, RĂZVAN STEFAN, LOREDANA OLAR, EMOKE PALL, **SANDA ANDREI**, DAN C. VODNAR, DANIELA BENEDEC AND ILIOARA ONIGA, Chemical Profile, Cytotoxic Activity and Oxidative Stress Reduction of Different *Syringa vulgaris* L. Extracts, *MOLECULES, VOLUME26, ISSUE11, ARTICLE NUMBER 3104,2021*, IF=4.411
18. MATEI, M.-C.; **ANDREI, S.M.**; BUZA, V.; CERNEA, M.S.; DUMITRAS, D.A.; NEAGU, RAFA, H.; POPOVICI, C.P.; SZAKACS, A.R.; CATINEAN, A.; et al. Natural Endotoxemia in Dogs-A Hidden Condition That Can Be Treated with a Potential Probiotic Containing *Bacillus subtilis*, *Bacillus licheniformis* and *Pediococcus acidilactici*: A Study Model, *ANIMALS*, Volume11, Issue 5, 2021, IF= 2.752
19. MARIA-CĂTĂLINA MATEI, **SANDA ANDREI**, VICTORIA BUZA, MIHAI CERNEA, DARIA ANTONIA DUMITRAȘ, DANIELA NEAGU, HORĂȚIU RAFA, , CRISTIAN PAUL POPOVICI, RALUCA POP, ADRIAN CĂTINEAN, EUGEN ȘTEFĂNUȚ, LAURA CRISTINA ȘTEFĂNUȚ, Evaluation of endotoxemia, soluble CD14 and IL-1 β in dogs with intestinal dysbiosis that were treated with probiotics: a prospective study, *FARMACIA*, 2021, Volume 69, Issue 6, Page 1153-1158, 2021, IF = 1.433
20. NOVAC C., **ANDREI S*.**, The Impact of Mastitis on the Biochemical Parameters, Oxidative and Nitrosative Stress Markers In Goat's Milk: A Review, *PATHOGENS*, 2020, Volume: 9 Issue: 11 , Article Number: 882, WOS:000593707800001, IF= 3.492
21. DUMITRAS DA, **ANDREI S*.**, Recent Advances in the Antiproliferative and Proapoptotic Activity of Various Plant Extracts and Constituents against Murine Malignant Melanoma, *MOLECULES*, 2022, Volume 27, Issue 8, Article Number 2585, WOS:000787428900001, IF= 4.412
22. AURORI M; NICULAE M; HANGANU D ; PALL E; CENARIU M; VODNAR DC; BUNEA A; FIT N; **ANDREI S**; Phytochemical Profile, Antioxidant, Antimicrobial and Cytoprotective Effects of Cornelian Cherry (*Cornus mas L.*) Fruit Extracts; *Pharmaceutics* 2023; Volume 16, Issue 3; Article Number 420, WOS:000960057100001, IF=5.215
23. AURORI, M.; **ANDREI, S.***; DREANCA, A.I.; MOROHOSCHI, A.G.;COTUL, M.; NICULAE, M.; NAN, M.I.; CODEA, A.R.; GAL, A.F.The Nephroprotective Effect of Cornelian Cherry (*Cornus mas L.*) and Rowanberry (*Sorbus aucuparia L.*) in Gentamicin-Induced Nephrotoxicity on Wistar Rats with Emphasis on the Evaluation of Novel Renal Biomarkers and the Antioxidant Capacity in Correlation with Nitro-Oxidative Stress. *Nutrients* 2023, 15, WOS:001094161700001, IF=5.9
24. VLAD ANDREI, **SANDA ANDREI***, ADRIAN FLORIN GAL , VASILE RUS, LUCIANA-MĂDĂLINA GHERMAN, BIANCA ADINA BOSCA, MIHAELA NICULAE, REKA BARABAS, OANA CADAR, ELENA DINTE, DANA-MARIA MUNTEAN, COSMIN PETRU PESTEAN, HORATIU ROTAR, ANTONIA BOCA, ANDREEA CHIS, MANUELA TĂUT, SEBASTIAN CANDREA AND ARANKA ILEA, Immunomodulatory Effect of Novel Electrospun Nanofibers Loaded with Doxycycline as an Adjuvant Treatment in Periodontitis, *Pharmaceutics* 2023, Volume 15, Issue 2, Article Number 707, WOS:000941629500001, IF=6.525

Articles published in ISI Proceedings journals with impact factor (selective list):

1. **ANDREI S.**, JOANTA A., PINTEA A., SARLEA M.M., Protective effect of lycopene from tomatoes powder in oxidative stress induced by administration of L-thyroxin in rats, *Chemicke Listy* 102 (15 SPEC. ISS.), s579-s580, 2008, IF= 0.683
2. **ANDREI S.**, S. MATEI, A. PINTEA, A. BUNEA, D. RUGINA, R. STEFAN, I. S. GROZA, Total antioxidant status, lipid and proteins oxidation levels in subclinical mastitis cow's milk, *Chemicke Listy*, Issues 18, pag. S1047, 2011, IF= 0,620
3. GAL F.A.; **ANDREI S.**; C. BOUARI.; TAULESCU.; P. BOLFA.; CATOI C., Inhibition of chemically induced mammary and non-mammary carcinogenesis by astaxanthin in Wistar rats, *Planta Medica*, Volume: 77, Issue: 12, Pages: 1457-1457, 2011, IF= 2.369
4. GAL, **ANDREI S.**, C. BOUARI, M. TAULESCU, P. BOLFA, C. CATOI, Preneoplastic and neoplastic mammary and non-mammary lesions associated with inflammation in chemically induced carcinogenesis in wistar rats, *J.Comparative Pathology*, 2012, Volume: 146, Issue: 1, P.: 65, IF= 1,529

5. **ANDREI S.**, CRAINIC D., BUNEA A., PINTEA A., Antioxidant Activity of Oxygenated normal and retro-carotenoids in vegetal oils, European Journal of Lipids Science and Technology, volume 114, issue S1:284, 5 dec 2012, IF= 2,033
6. JOANTA, AE; CLICHICI, **ANDREI S.**, Influence of lycopene on lipid alterations due to thyroid hormones excess-experimental data, Free Radical Research vol.40, Suppl 1: S61, ISSN: 1029-2470 (electronic), 2006, IF= 2,989
7. GAL A.F., **ANDREI S.**, L. STAN, F. TĂBĂRAN, V. MICLĂUȘ, M. TAULESCU, A. NAGY, C. CĂTOI, Inhibition of Mammary Tumourigenesis in the MNU-Induced Rat Mammary Tumour Model by Propolis, Journal of Comparative Pathology, 156(1):120, DOI 10.1016/j.jcpa.2016.11.200, 2017, IF= 1,173
8. **ANDREI S.**, C. NOVAC, A. BUNEA, L. BOGDAN, N. FIȚ, S. DAINA; Effect of pathogens and somatic cell count on bovine milk proteins profile; Journal of Biotechnology, Volume 305, Supplement, S33–S88, <https://doi.org/10.1016/j.jbiotec.2019.05.276>, IF=3.163
9. A. GAL, D.A. DUMITRAȘ, F. TĂBĂRAN, D. RUGINĂ, **ANDREI S.**; Dietary Polyphenon E modulates the markers of oxidative stress induced by administration of MNU in rats; Journal of Biotechnology, Volume 305, Supplement, S33–S88, <https://doi.org/10.1016/j.jbiotec.2019.05.277>, IF=3.163
10. BOGDAN S., RAFA H., LUCA V., CODEA R., SARPATAKI O., OANA L., **ANDREI S.**; Study of hypothermia effect on oxidative stress markers in experimental sepsis induced in rats; Journal of Biotechnology, Volume 305, Supplement, S33–S88, <https://doi.org/10.1016/j.jbiotec.2019.05.300>, IF=3.163

- **Team member - 5 projects with international funding**
- **Team member - 15 national research projects; 3 educational projects**
- **Project manager - 4 research projects**

Name of project / funding source	Period
National University Research Council Romania (CNCSIS) program AT, nr.21, cod: 408; <i>Studies regarding tumours antioxidant capacity and antioxidant / antitumoral effects of some carotenoids</i>	2002 – 2004
National University Research Council Romania (CNCSIS), program de tip AT, nr.2, cod: 99; <i>Influence of natural antioxidant administration on lipids and lipids components protection in oxidative stress induce by thyroid gland hyper function</i>	2004 – 2005
PNII – IDEI (cod: 1482), <i>Identification of new markers of oxidative stress used in the diagnosis of subclinical mastitis in cows</i>	2009 - 2011
USAMV Cluj Napoca Contract, Solutions Component, Contract no. 24905 / 08.11.2021, <i>Development and optimization of laboratory diagnostic capacity by using immunochemical and enzymological techniques in animal pathologies</i>	2021 - 2023

Cluj-Napoca, 01.08.2024

Prof.dr. Sanda Maria ANDREI