



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **VINTILĂ TEODOR VASILE**

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Nationality Romanian

Date of birth 05.11.1971, Mediaș (SB), România

Gender M

Profession **Biotechnology Engineer**



Work experience

Dates Since April 2020

Habilitation in Biotechnology

Dates 2004 - present

Occupation or position held Lecturer

Main activities and responsibilities **Courses and laboratory works with students in biotechnologies, research, extension, publication, research projects development and management**

Name and address of employer Banat's University of Agricultural Science and Veterinary Medicine Calea Aradului nr. 119, Timisoara, Romania

Type of business or sector Disciplines: Applied Microbiology, Biosystems Engineering, Genetic Engineering, Renewable Energy

Dates 1999 - 2004

Occupation or position held Assistant Professor

Main activities and responsibilities Courses and laboratory works with bachelor and master students in biotechnologies

Name and address of employer Banat's University of Agricultural Science and Veterinary Medicine Calea Aradului nr. 119, Timisoara, Romania

Type of business or sector Disciplines: General Microbiology, Applied Microbiology, Biosystems Engineering

Dates 1997 - 1999

Occupation or position held Junior Assistant

Main activities and responsibilities Laboratory works with bachelor and master students in biotechnologies

Name and address of employer Banat's University of Agricultural Science and Veterinary Medicine Calea Aradului nr. 119, Timisoara, Romania

Type of business or sector Disciplines: General Microbiology, Applied Microbiology, Biosystems Engineering, Genetic Engineering, Bioengineering and Bioreactors, Immunogenetics

Dates 1996 - 1997

Occupation or position held Laboratory Technician

Main activities and responsibilities Industrial Microbiology Laboratory works, culture collection, fermentations

Name and address of employer Banat's University of Agricultural Science and Veterinary Medicine Calea Aradului nr. 119, Timisoara, Romania

Type of business or sector Industrial Microbiology Laboratory

Education and training

Dates April 2015

Title of qualification awarded Certificate of completion

Principal subjects/occupational skills	Advanced course in Bioprocess Design
Name and type of organisation providing education and training	Delft University of Technology and Wageningen University (Netherlands) through the Institute of Biotechnology Studies Delft Leiden
Level in national or international classification	Professional training
Dates	September 2011
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	Professional training in the field of university management "Management of resources and sustainability"
Name and type of organisation providing education and training	Ministry of Education and Youth - Romania
Level in national or international classification	Professional training
Dates	March 2009
Title of qualification awarded	Certificate of expert in biogas technology
Principal subjects/occupational skills covered	<ol style="list-style-type: none"> 1. Financial aspects of biogas polygeneration; 2. Introduction to biogas technology; 3. Potential of biogas in Romania; 4. How to plan and build a biogas plant; 5. Technical equipment and components of an industrial polygeneration biogas plant; 6. Best practice examples in Germany; 7. Multi-criteria grid: concrete numeric classification scale scoring technical, logistic, legal and financial aspects to evaluate sites of industrial biogas exploitation; 8. How to make a feasibility study for a biogas plant;
Name and type of organisation providing education and training	University Lucian Blaga of Sibiu-Romania, and Agimus Umwelt Sicherheit Qualität Braunschweig, Germany
Level in national or international classification	Professional training
Dates	September 2008
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	<ol style="list-style-type: none"> a. Climate protection, energy potential in Europe, b. Digester biology, input substrates, gas yields from waste and energy crops, basic principles of process technology, c. Environmental constraints, fertilizer spreading, ecological fertilizer management with biogas slurry, ecological evaluation, digestate processing, d. Biogas technology, digester and installation technology, process and feed-in technology, safety aspects, stirring technology, biogas upgrading, biogas utilization technology (CHP), e. Introduction into planning, construction and important building materials, f. Ecological and economical feasibility, rate of return, savings, financing plan, international carbon trading, g. Concept design and planning design, exemplary economic calculations, introduction into a simple calculation and planning program, h. European approval conditions for the treatment of organic residues from trade and industry, safety standards in agricultural biogas plants.
Name and type of organisation providing education and training	University Hohenheim, Stuttgart, IBBK Fachgruppe Biogas Weckelweiler, Germany
Level in national or international classification	Professional training
Dates	May 2007
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	<p>Manure Management for Water Quality Protection:</p> <p>Good practices in manure management to protect water quality,</p> <p>Application of recommended doses of fertilizers to agricultural crops,</p> <p>Collection and storage of manure</p> <p>Organic fertilizer application systems on agricultural land</p>
Name and type of organisation providing education and training	USAMVB Timisoara, Iowa State University and USDA

Level in national or international classification	Professional training
Dates	May 2007
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	Course and practical work: 1) Molecular biology techniques: identification of receptor mRNA in eukaryotic cells by isolating RNA transcription and PCR amplification, 2) tissue culture techniques: cultivation of human epithelial cells, 3) laboratory safety techniques
Name and type of organisation providing education and training	University College Dublin (Ireland), The Children's Medical & Research Foundation
Level in national or international classification	Professional training
Dates	November – December 2006
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	U.S. scholarship funded by Norman E. Borlaug International Agricultural Science and Technology Fellows Program at the University of Kentucky in: industrial biotechnology, conversion of lignocellulosic biomass to ethanol as biofuel; cultivation techniques of thermophilic anaerobic bacteria (<i>Clostridium thermocellum</i>), cellulose hydrolysis and fermentation to ethanol; submerged and solid state cultures with percolation system.
Name and type of organisation providing education and training	University of Kentucky, USA
Level in national or international classification	Professional training
Dates	1998 - 2003
Title of qualification awarded	PhD in Animal Husbandry
Principal subjects/occupational skills covered	PhD thesis: <i>Genetic transformation of microorganisms for use in livestock</i>
Name and type of organisation providing education and training	Banat University of Agricultural Science and Veterinary Medicine of Timisoara
Level in national or international classification	Doctoral studies
Dates	2000 - 2001
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	Internship training in farm management and dairy industry microbial feed additives, probiotics and silage inoculants
Name and type of organisation providing education and training	Communicating for Agriculture Exchange Program and Ridgewater College - Hutchinson, Minnesota, USA.
Level in national or international classification	Professional training
Dates	1997 - 1998
Title of qualification awarded	Master Diploma
Principal subjects/occupational skills covered	Molecular Biology in Agriculture
Name and type of organisation providing education and training	Banat University of Agricultural Science and Veterinary Medicine of Timisoara
Level in national or international classification	Master degree
Dates	1997
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	Francophone interuniversitaire course in: Adaptation digestive et metabolique chez ruminants.
Name and type of organisation providing education and training	ENSA Rennes and Banat University of Agricultural Science and Veterinary Medicine of Timisoara

Level in national or international classification	Professional training
Dates	1992 - 1997
Title of qualification awarded	Bachelor Diploma, Engineer in Biotechnology
Principal subjects/occupational skills covered	Biotechnology in Agriculture
Name and type of organisation providing education and training	Banat University of Agricultural Science and Veterinary Medicine of Timisoara
Level in national or international classification	Bachelor degree
Dates	1994
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	6-month training stage in mountain agriculture, Germany
Name and type of organisation providing education and training	Bayerische Bauerverband.
Level in national or international classification	Professional training
Dates	1986 - 1990
Title of qualification awarded	Baccalaureate Diploma, Forestry
Principal subjects/occupational skills covered	Forestry
Name and type of organisation providing education and training	Forestry High School
Level in national or international classification	High School

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (*)

English

German

French

Spanish

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	experienced user	C1	experienced user	C1	experienced user	C1	experienced user	C1	experienced user
B1	independent user	B1	independent user	A2	basic user	A2	basic user	A2	basic user
B1	independent user	B1	independent user	A2	basic user	A2	basic user	A2	basic user
B1	independent user	B1	independent user	A2	basic user	A2	basic user	A2	basic user

(*) Common European Framework of Reference for Languages

Organisational skills and competences

Coordinator of research activities, organizing laboratory works, project manager in national and international research programs, supervising graduation papers, reports regarding research/development activities, budget administration

Other skills and competences

- Organizing a bank (collection) of microorganisms of agricultural interest, isolation, identification, preservation and characterization of microorganisms.
- molecular Biology, genetic engineering, extension activities.
- collaborator in research projects

Driving licence

B, C, E categories

Leading position in the following Professional Partnerships:

- Society of Renewable Energy of AGIR Timiș - Vice-president;
- Institute of Applied Biotechnology Timișoara - Secretary.

Member of the following Professional Partnerships:

- European Federation of Biotechnology;
- Romanian Society of Cellular Biology;
- Romanian Society of Biochemistry and Molecular Biology;
- General Association of Engineers from Romania;
- Communicating for Agriculture, Minnesota – USA (country partner);
- International Estate Alumni, bureau of educational and cultural affairs, <https://alumni.state.gov/>
- Society for Renewable Energy within AGIR Timiș, - founding member;
- Sustainable Energy Cluster in Romania - ROSENC, founding member;
- Romanian Association for Biomass and Biogas - ARBIO;

RESEARCH ACTIVITY

The scientific research activity, funded by 12 national or international grants as **director or project manager** with a total value of around **1,700,000 Euros**, has materialized through the publication of **over 100 articles** scientific articles and papers (mostly as main author) in peer-review publications and technical journals (of which 36 in journals indexed on the Web of Science, 28 in journals indexed in international databases, and the rest in national and international journals and volumes), 10 books - 5 as first author, 4 chapters in 2 specialized treatises, 4 invention patents.

I hereby certify that the above information is true, accurate and complete.

Date of form completion:

05.02.2022

Signature:



ANNEX

Leader of national and international research projects, in total budget of around 1,700,000 Euro:

Program/Project	Position	Duration:
Obtaining of new feed enzymes producing bacterial strains through genetic transformation	Manager	2003 - 2004
Obtaining of some microbial biotechnological products used as inoculants for production and preservation of forage	Manager	2005 - 2007
Conversion of lignocellulosic biomass to ethanol by simultaneous hydrolysis and fermentation	Manager	2007 - 2010
Genetic engineering of tumors stem cells for modulation of immune response in non-viral cancers	Manager	2007 - 2009
Integration of anaerobic fermentation and methane capture in manure management in dairy farms to reduce pollution and obtain a valuable fertilizer	Manager	2008 - 2010
Cross-border joint RDI in the field of biogas production, a suitable renewable energy carrier for Hungary and Romania. Acronym: RESGAS2011	Manager	2012 - 2013
<i>Simultaneous biohydrogen production and wastewater treatment by selectively enriched anaerobic mixed microbial consortium</i> , Acronim: BIOSIM, Cod UEFISCDI: PN-II-PT-PCCA-2011-3.1-1779 (Parteneriat, PP1 responsible)	Manager	2012 - 2016
<i>Sweet sorghum: a versatile raw material for biofuels and biorefinery</i> , Contract nr. 70 / 02.09.2013, tip IDEI, cod UEFISCDI: PN-II-ID-PCE-2012-4-0311	Assistant manager	2013-2016
Renewable Energy and Circular Economy Applied in an Academic Community as an Example for Smart Sustainable Development, Project 2019/104267, Innovation Norway – Romania, RoEnergy Call	Manager	2020 - 2022

Patents: regarding procedures to obtain fermented fodder; preservation of sucrose	2 (co-author)
Patents: regarding automated biogas installation; biorefinery	2 (single author)
Web page	www.biocombustibil-tm.ro

Scientific contributions (relevant 10 scientific works)

1.	Production of cellulase by submerged and solid-state cultures and yeasts selection for conversion of lignocellulose to ethanol	T. Vintila, M. Dragomirescu, S. Jurcoane, D. Vintila, R. Caprita, M. Maniu	Romanian Biotechnological Letters, Vol. 14, Nr.2, 2009	pp. 4275-4281
2.	Saccharification of lignocellulose - with reference to Miscanthus - using different cellulases	Vintila Teodor; Dragomirescu Monica; Croitoriu Veronica; Vintila, C ; Barbu, H ; Sand, C	Romanian Biotechnological Letters Volume: 15 Issue: 4 , 2010	5498-5504
3.	Simultaneous hydrolysis and fermentation of lignocellulose versus separated hydrolysis and fermentation for ethanol production	Vintila Teodor; Vintila Daniela; Neo Simina; Tulcan, C ; Hadaruga, N	Romanian Biotechnological Letters Volume: 16 Issue: 1 Supplement: S , 2011	106-112
4.	Biogas generation from corn stalks and corn stalks bagasse resulted from ethanol production	<i>Teodor Vintilă, V. Gherman, M. Bura, M. Dragomirescu, Da. Ilie, C. Julean, S. Neo</i>	Romanian Biotechnological Letters Volume: 18 Issue: 6 2013, IF: 0,351	8812-8822
5.	Evaluation of fermentation parameters and yeasts selection for ethanol production from sweet sorghum juice	Teodor Vintilă*, Nicolae Popa, Georgeta Pop, Iosif Gergen, Radu Șumălan	Romanian Biotechnological Letters Volume: 20 Issue: 6 2015, IF: 0,404	11076-11083
6.	Metal Distribution in the Process of Lignocellulosic Ethanol Production from Heavy Metal Contaminated Sorghum Biomass	Teodor Vintila, Adina Negrea, Horia Barbu, Radu Sumalan, Kornel Kovacs	Journal of Chemical Technology & Biotechnology Volume 91, Issue: 6, 2016, IF: 2,349	1607-1614
7.	Mild alkaline pretreatment applied in the biorefinery of sorghum biomass for ethanol and biogas production	Adrian Trulea, Teodor Vintilă, Nicolae Popa, Georgeta Pop	AgroLife Scientific Journal vol. 5, no. 2, 2016 (indexed Thomson Reuters)	156-159
8.	Influence of Enzymatic Cocktails on Conversion of Agricultural Lignocellulose to Fermentable Sugars	T. Vintila ¹ , V. D. Gherman ^{2*} , N. Popa ¹ , D. Popescu ¹ , C. Buzatu ³ , M. Motoc ³	Revista de Chimie, vol. 68, no.2, 2017 (I.F. 0,956)	373-377
9.	Residual Biomass from Food Processing Industry in Cameroon as Feedstock for Second-generation Biofuels	Teodor., I. Ionel, T. T. R. Fregue, A. R. Wächter, C. Julean, and A. S. Gabche	BioResources, 14(2), 2019	3731-3745
10.	Microwave and Steam Mediated Alkaline Pretreatments of Sweet Sorghum Bagasse: Study of the Energy Efficiency	Teodor Vintila, Radu Sumalan, Nicolae Florin Popa, Monica Dragomirescu, and Florin Sala	BioResources, 14(2), 2019	4022-4034

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