



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **Sumalan Radu-Liviu**

Address(es) **[REDACTED]**
Str. Calea Aradului nr.119, 300645, Timisoara- at university

Telephone(s) +40256424232

Mobile **[REDACTED]**

Fax(es) +40256424232

E-mail radusumalan@usvt.ro; sumalanagro@yahoo.com;

Nationality Romanian

Date of birth 20.08.1965

Gender male

Desired employment / Occupational field Higher education, research projects coordinator and implementation

Work experience

Dates 2007-present

Occupation or position held Full Professor, PhD. Coordinator, Post doc coordinator

Main activities and responsibilities Higher education and research activities

Name and address of employer University of Life Sciences "King Mihai I" from Timisoara, Str. Calea Aradului, no.119, 300645

Type of business or sector Educational and research

Dates 2000-2007

Occupation or position held Associate professor

Main activities and responsibilities Higher education and research activities

Name and address of employer Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Calea Aradului, no.119, 300645.

Type of business or sector Educational and research

Dates 1995-2000

Occupation or position held Lecturer

Main activities and responsibilities	Higher education and research activities
Name and address of employer	Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Calea Aradului, no.119, 300645
Type of business or sector	Educational and research
Dates	1991-1995
Occupation or position held	University assistant
Main activities and responsibilities	Higher education and research activities
Name and address of employer	Banat's University of Agricultural Science and Veterinary Medicine, Timisoara, Calea Aradului, no.119, 300645
Type of business or sector	Educational and research
Dates	1990-1991
Occupation or position held	University preparatory
Main activities and responsibilities	Didactical and research activities
Name and address of employer	Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Calea Aradului, no.119, 300645
Type of business or sector	Educational
Dates	1988-1990
Occupation or position held	Agricultural engineer
Main activities and responsibilities	Agricultural production, optimization of culture technology
Name and address of employer	Agricultural office, Somes – Odorhei state farm
Type of business or sector	Plant cultivation, management, and marketing in field production
Education and training	
Dates	1992-1998
Title of qualification awarded	doctorate
Principal subjects/occupational skills covered	Research in the field of plant physiology, plant stress – salts and drought tolerance
Name and type of organisation providing education and training	Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Calea Aradului, no.119, 300645
Level in national or international classification	Post university
Dates	1984-1988
Title of qualification awarded	Education and training
Principal subjects/occupational skills covered	Agricultural engineering, cultivated plant technology, plant physiology
Name and type of organisation providing education and training	Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Str. Calea Aradului, no.119, 300645.
Level in national or international classification	University degrees
Personal skills and competences	
Mother tongue(s)	romanian

Other language(s)	english, french									
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Effective Operational Proficiency	C1	Effective Operational Proficiency	C1	Effective Operational Proficiency	C1	Effective Operational Proficiency	B1	Independent user
French	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
	(*) <i>Common European Framework of Reference for Languages</i>									
Personal skills and competences	good ability to adapt to multicultural environments, gained through my work experience abroad; good communication skills gained through my experience in academic environment									
Organisational skills and competences	leadership; sense of organization (experience in logistics); good experience in project or team management									
Technical skills and competences	good command of quality control processes									
Computer skills and competences	COMPUTER OPERATOR (INTERNET, WORD, EXCEL, POWER POINT, ETC)									
Artistic skills and competences	Literature, nature, sport									
Other skills and competences	Scientific activities: scientific paper and research grants									
Driving license	Category B and C									

Additional information**PRIZES:**

FIRST PRIZE –National Conquest AGRICHALLENGE” – 2009 – Organized by TimacAgro Foundation for Agriculture Development, <http://www.fundatiatimacagro.ro/start.php?page=3&sub=7>

Prize “Haralamb Vasiliu” of Academy of Scientists from Romania in 2011 for the book "Growing and processing oilseeds in order to produce biofuels" with Tabara V., Georgeta Pop, Rusnac L. și Iuliana Popescu, Ed. Eurobit, Timisoara, ISBN 978-973-620-564-4

http://www.aos.ro/site_mod/Primapagina/2011/ListapremiilorAOSR2008si2009.pdf

Gold Medal for Invention: Solar irrigation system - Nanu Sorin, Sumalan Radu, International Exhibition of Inventions and Innovations "Traian Vuia" Timisoara, June 13, 2015

Special Prize and Diploma of Excellence USAMVB "King Michael I of Romania" from Timisoara, for the invention; Solar irrigation system- Sumalan Radu-Liviu and Nanu Sorin. Romanian Sustainable Energy Cluster -ROSENC-. International Exhibition of Inventions and Innovations "Traian Vuia" Timisoara, June 13 2015.

<http://www.cluster-app.ro/en/uncategorized-en/latest-inventions-and-innovations-at-the-international-exhibition-traian-vuia-timisoara-2>

Bronze Medal for : Sorada – A Tomato from Grandma s Garden, Euroinvent Iasi 2016. Radu Sumalan, Sorin Ciulca, Florin Bodnarescu, Renata Sumalan and Adriana Ciulca

Special Prize of National Institute of Genetics- Moldavian Academy of Sciences for: **Sorada – A Tomato from Grandma s Garden**, Euroinvent Iasi 2016. **Radu Sumalan**, Sorin Ciulca, Florin Bodnarescu, Renata Sumalan and Adriana Ciulca.

Gold Medal for: **NEW PLANT GROWTH REGULATORS FOR A SUSTAINABLE AGRICULTURE**, Euroinvent Iași, **2018**,

Projects evaluator:

COST – European Cooperation in Science and Technology- EU Funded Programme.

UEFISCDI- Executive Agency for Higher Education, Research, Development and Innovation Funding- Romanian Ministry of Research and Innovation.

ANCS – National Agency for Scientific Research- Romanian Ministry of National Education.

PNRAS- National Program for Reducing School Dropout.

[Radu Sumalan \(0000-0001-5252-8921\) \(orcid.org\)](https://orcid.org/0000-0001-5252-8921)

WOS Hirsch Index- 7,

[Scopus Author ID: 26656962000](https://scopus.com/authid/detail.uri?authorID=26656962000)

Scopus Hirsch Index-7

Brainmap profile- **U-1700-028K-9971**.

[Radu Liviu Sumalan \(researchgate.net\)](https://www.researchgate.net/profile/Radu-Liviu-Sumalan)

Research gate index -12

EDITOR,

Special Issue Editor "Germplasm Resources of Horticultural Crops and Their Use to Improve Abiotic Stress Tolerance" in PLANTS (MDPI).
Special Issue Editor "Potential of Neglected and Underutilized Plant Species as Future Crops under Climate Change" in Plants (MDPI)

REVIEWER FOR SCIENTIFIC JOURNALS,

1. AGRONOMY JOURNAL (MDPI)
2. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES (MDPI)
3. PLANTS (MDPI)
4. CURRENT ISSUES IN MOLECULAR BIOLOGY (MDPI),
5. FRONTIERS IN PLANT SCIENCES -Plant Metabolism and Chemodiversity (MDPI),
6. LANDS (MDPI),
7. FOLIA HORTICULTURAE,
8. HORTICULTURAE,
9. APPLIED SCIENCES.
10. GENES,
11. WATER,
12. Notulae Botanicae Horti Agrobotanici Cluj- Napoca
13. JOURNAL of Horticulture, Forestry and Biotechnology
<http://www.usab-tm.ro/Journal-HFB/romana/recenzare.html>
<http://www.usab-tm.ro/Journal-HFB/romana/recenzare.html>
14. International Advisory Committee of 3rd IFSDAA International Seminar
Crop Science for Food security, Bio-energy and Sustainability
<http://www.acss.ws/?t=hungary>
15. International Journal of Bio-resources and Stress Management
16. [World Journal of Agricultural Research](http://www.sciepub.com/journal/WJAR/EditorialBoard),
<http://www.sciepub.com/journal/WJAR/EditorialBoard>,
17. International Journal of Environmental Bioremediation & Biodegradation
<http://www.sciepub.com/journal/IJEBB/EditorialBoard>
18. Research in Plant Sciences
<http://www.sciepub.com/journal/PLANT/EditorialBoard>
19. - Oltenia- Studii și comunicări științifice
<http://www.olteniastudii.3x.ro/edit.html>
20. Net Journal of Agricultural Science
http://www.netjournals.org/agricsci_index.html

Membership of professional bodies,

Romanian Society of Horticulture
European Drought Centre- <http://www.geo.uio.no/edc/>

President of Centre of Consultancy and Euro-Regional Rural Cooperation (CC&EU)

President of Euro regional Research Institute for Vegetal Energetic Bioresources" (BIOEN)

Expert for scientific evaluation of national research projects.

Experience in working with international organizations:

1. **CERE - Center of Excellence for Renewable Energy, Energy Efficiency and Environment- AUSTRIA,**
2. **NO GRAVITY - NGO found in Bratislava, SLOVAK REPUBLIC**
3. **PARIVARTAN KO LAGI AVIYAN- Kathmandu, NEPAL**

Ph.D. Thesis coordinator - 11

Postdoctoral research coordinator - 7

Annexes: 1. List of main research grants,
2. Books,
3. List of main scientific paper

Timisoara,

Signature,

25.03.2025

Annex 1 List of main research grants

No.	Title	Year	Position	Value	Beneficiary
1.	Les effets d'application du produit "BIOVIT" sur la productivité des espèces d'intérêt horticole – Nutrientes organicos S.L. Spania	2004	Project manager	5 000 euro	Nutrientes Organicos S.L. Spain
2.	Research regarding the tolerance physiology to osmotic stress of some <i>Phaseolus vulgaris</i> L. local land races from Banat area to use them in amelioration processes	2007-2008	Member	30 000 euro	CNCSIS
3.	The founding of the Centre for Consultancy and Euro-Regional Rural Co-operation (CC&EU) to improve the ecological and conventional management regarding agricultural yield quality and quantity.	2007-2008	Project manager	220.000 euro	PHARE CBC HU-RO
4.	The founding and implementation of the Euro regional Research Center of Vegetal Energetic Bioresources (BIOEN)	2008-2009	Project manager	492 000 euro	PHARE CBC RO-SE
5.	Common research project regarding the drought tolerance devise to some maize genotypes cultivated in the western side of Romania and the south-east of Hungary.	2009-2011	Project manager	451.000 euro	Cross border Cooperation Programme 2007-2013 HU-RO
6.	Cross-border Partnership – Education –Spots and Health in university	2010-2011	Scientific responsible	127.830euro	Cross border Cooperation Programme 2007-2013 HU-RO
7.	Online university collaboration network for the development of the capacity to provide competent and competitive on labor market.	2010-2012	Responsible - development of curricular and courses scientific content	8.869.868 RON (1,979,000 EURO)	POS DRU/86/1.2/S /62723
8.	Postdoctoral School in Agriculture and Veterinary Medicine	2010-2013	domain responsible- Horticulture	20.019.000 RON	POS DRU/89/1.5/S /6237
9.	Researche concerning the influence of some Timac – Agro Bioproducts upon growth and development processes in some	2011	Project manager	15.000 euro	Timac Agro International, France

	cultivated plants				
10.	Research concerning the influence of some sulfur fertilizers produced by Timac Agro on soil microflora and crop quality and quantity of maize, sunflower and grassland.	2012	Project manager	22.357 euro	Timac Agro International, France
11.	Identify and testing <i>Brassica napus</i> L. tolerant genotypes to drought and heat stress	2012-2013	Project Manager	14.175,25 euro	Monsanto Hungaria Kft.
12.	Cross-border joint RDI in the field of Biogas production, a suitable renewable energy carrier for Hungary and Romania	2012-2013	Expert -biomass producing	74.600 euro	Cross border Cooperation Programme 2007-2013 HU-RO 1001/93/2.2.2.
13.	Screening for salt tolerance of some local vegetable landraces for conservation of genetic potential and biodiversity www.s-stress.ro	2012-2016	Project manager	461.394 euro	PN-II-PT-PCCA-2011-3 Contract. Nr.97/2012
14.	Sweet sorghum: a versatile raw material for biofuels and biorefinery	2013-2016	Scientific responsible	75.000,00 euro/2014	PN-II ID-PCE-2012-4-0311
15.	Research concerning the influence of some Timac Agro products to control nutrition, drought tolerance and encourage flowering and fruiting on some cultivated plant species	2014	Project manager	20.000 euro	Timac Agro International, France
16.	Energy efficient new technologies for synthesis of polyester copolymers.	2014-2015	Researcher	1.000.000 euro	S.C. Elkim Special SRL
17.	Research Concerning The Influence Of Some Timac Agro Products To Control Broomrape (<i>Orobanche cumana</i>) Infestation On Sunflower- Helios Experiment	2015	Researcher	15.000 euro	Timac Agro International, France
18.	Energize the Agriculture-Young Entrepreneurs for Rural development http://agroen.eu/	2016	Project manager	86.020 euro	European Comission-Education, Audiovisual and Culture Executive Agency

19.	Forming of network for enhancing environmental protection from pollutants of mining cross border areas ACRONYM-NETMIN, RORS-308	2019 – 2020	Researcher 1	301.480,20	Interreg-IPA Cross-border Cooperation Romania-Serbia Programme
20.	R.E.S. and Circular Economy in an Academic Community as an Example for Smart Sustainable Development (554215)	2020	Senior researcher	1.122.514,00 euro	SEE NORVEGIAN GRANT
21.	The impact of abiotic and biotic stress on plants due to climate change.	2022	Senior researcher	1.198.026 RON	Grant PN-III-P4- ID-PCE-2020- 0410

Annex 2. Books/book chapter

No	Authors	year	Title	Editors	No pag.
1.	Sumalan Renata, Sumalan Radu	2022	Microbial depreciation of post-harvest primary products	Ed. Eurobit Timisoara, ISBN 978-973-132-872-0	151
2.	Radu-Liviu Sumalan , Sorin-Ion Ciulca, Renata-Maria Sumalan and Sorina Popescu	2021	Landraces - Traditional Variety and Natural Breed Chapter- Chapter Landraces of Vegetables: The “Gene Banks” for Traditional Farmers and Future Breeding Programs	Intech open Published: September 1st 2021.DOI: 10.5772/intechopen.91545 ISBN: 978-1-83968-718-1 Print ISBN: 978-1-83968-717-4 eBook (PDF) ISBN: 978-1-83968-719-8 Copyright year: 2021	24
3.	Guler O., Mirela Guler, R. Şumălan	2012	The school of cultivars. Wheat-leaf fertilizers, biostimulators, chemical fertilizers, vol. VI	Ed. Eurobit. Timisoara.ISBN 978-973-132-002-8	157
4.	Guler O., Mirela Guler, R. Şumălan	2012	The school of cultivars. Wheat and triticale. Vol. V	Ed. Eurobit. Timisoara.ISBN 978-973-132-002-1	140
5.	Guler O., Mirela Guler, R. Şumălan	2011	The school of wheat cultivars Vol.I and II	Ed. Eurostampa, Timișoara, ISBN 978-606-569-279-4	171
6.	R. Şumălan , Tabara V., Georgeta Pop, Rusnac L., Iuliana Popescu	2009	Cultivating and processing of oilseeds for obtaining of biofuels (Prize “Haralamb Vasiliu” of Romanian Scientists Academy - 2010)	Ed. Eurobit, Timisoara, ISBN 978-973-620-564-4	366
7.	R. Şumălan	2009	Plant Physiology-elements of Plants	Ed. Eurobit, Timisoara, ISBN 978-973-620-496-	318

			Physiology applied in Horticulture	8	
8.	R. Şumălan	2005	Vegetal Physiology	Ed. Eurobit, Timisoara, ISBN973-620-199-6	330
9.	R. Şumălan	2004	Plant Physiology-elements of plant physiology in regenerated plants and stress reaction	Ed. Eurobit, Timisoara I.S.B.N. 973 -620-107-4	250
10.	R. Şumălan	2002	Plant physiology	Ed. Eurobit, Timisoara, I.S.B.N.973-620-010-8	181
11.	R. Şumălan	2001	Forestry Plant Physiology	Ed. Eurobit, Timisoara, I.S.B.N. 973-8181-62-3	179

Patents for invention of homologated varieties/hybrids

Patent: Solar irrigation system - Nanu Sorin, Sumalan Radu

1. **Şumălan Radu**, Ciulca Sorin, Bodnărescu Florin, Ciulca Adriana **2019**. Tomato hybrid MIRUNA. REGISTRATION CERTIFICATE ISTIS NO. 4018/20.05.2019.
2. **Şumălan Radu**, Ciulca Sorin, Radulov Isidora, Bodnărescu Florin, Ciulca Adriana **2019**. Hybrid tomato SORADA. REGISTRATION CERTIFICATE ISTIS NO. 4019/20.05.2019
3. Ciulca Sorin, **Şumălan Radu**, Bodnărescu Florin, Şumălan Renata **2019**. Tomato variety TOMTIM. REGISTRATION CERTIFICATE ISTIS NO. 4021/20.05.2019.
4. Ciulca Sorin, **Şumălan Radu**, Popescu Cosmin, Bodnărescu Florin, Şumălan Renata **2019**. Tomato hybrid USAB29. REGISTRATION CERTIFICATE ISTIS NO. 4022/20.05.2019.
5. Bodnărescu Florin, **Şumălan Radu**, Ciulca Sorin, Popescu Sorina, Gaşpar Sorin **2019**. Tomato hybrid BANATO. REGISTRATION CERTIFICATE ISTIS NO. 4020/20.05.2019.

Annex 3. Main scientific papers, 2025

Şumălan, R.L.; Copolovici, D.M.; Crişan, M.; Stănică, F.; Şumălan, R.M.; Lupitu, A.; Vicas, S.I.; Mot, S.; Copolovici, L.; Ciulca, S. Assessment of Fruit Traits and Antioxidant Capacity in Wild and Cultivated Genotypes of *Ziziphus* sp. *Plants* 2025, *14*, 134. <https://doi.org/10.3390/plants14010134>

2023

Sumalan, R.L.; Nescu, V.; Berbecea, A.; Sumalan, R.M.; Crisan, M.; Negrea, P.; Ciulca, S. The Impact of Heavy Metal Accumulation on Some Physiological Parameters in *Silphium perfoliatum* L. Plants Grown in Hydroponic Systems. *Plants* 2023, *12*, 1718. <https://doi.org/10.3390/plants12081718>

2022

Nescu, V.; Ciulca, S.; Sumalan, R.M.; Berbecea, A.; Velicevici, G.; Negrea, P.; Gaspar, S.; **Sumalan, R.L.** Physiological Aspects of Absorption, Translocation, and Accumulation of Heavy Metals in *Silphium perfoliatum* L. Plants Grown in a Mining-Contaminated Soil. *Minerals* 2022, *12*, 334. <https://doi.org/10.3390/min12030334>.

2021

Sumalan, R.L.; Halip, L.; Maffei, M.E.; Croitor, L.; Siminel, A.V.; Radulov, I.; Sumalan, R.M.; Crisan, M.E. Bioprospecting Fluorescent Plant Growth Regulators from Arabidopsis to Vegetable Crops. *Int. J. Mol. Sci.* 2021, *22*, 2797. <https://doi.org/10.3390/ijms22062797>.

Costea M, Danci M, Ciulca S and Sumalan R.L: Genus Paulownia: Versatile Woodspecies With Multiple Uses-A Review. *Life Science And Sustainable Development*, Vol. 2, (1), 2021; p. 32-40. <https://www.lssd-journal.com>

2020

SUMALAN, R. L., MUNTEAN, C., KOSTOV, A., KRŽANOVIĆ, D., JUCSOR, N. L., CIULCA, S. I., SUMALAN, R. M., GHEJU, M., & CERNICOVA-BUCA, M. (2020). The cup plant (*Silphium perfoliatum* L.) – a viable solution for bioremediating soils polluted with heavy metals. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, *48*(4), 2095-2113. <https://doi.org/10.15835/nbha48412160>

Sumalan R-L, Nicoleta Stroia, Daniel Moga, Vlad Muresan , Alexandru Lodin , Teodor Vintila and Cosmin A. Popescu. A Cost-Effective Embedded Platform for Greenhouse Environment Control and Remote Monitoring. *Agronomy* 2020, 10, 936; doi:10.3390/agronomy10070936.

Sumalan, R.M.; Kuganov, R.; Obistoiu, D.; Popescu, I.; Radulov, I.; Alexa, E.; Negrea, M.; Salimzoda, A.F.; Sumalan, R.L.; Cocan, I. Assessment of Mint, Basil, and Lavender Essential Oil Vapor-Phase in Antifungal Protection and Lemon Fruit Quality. *Molecules* 2020, **25**, 1831.

Sumalan, R.-L.; Croitor, L.; Petric, M.; Radulov, I.; Bourosh, P.; Sumalan, R.-M.; Crisan, M. *p*-Aminobenzoate Organic Salts as Potential Plant Growth Regulators for Tomatoes. *Molecules* 2020, **25**, 1635.

Sumalan, R.M.; Ciulca, S.I.; Poiana, M.A.; Moigradean, D.; Radulov, I.; Negrea, M.; Crisan, M.E.; Copolovici, L.; Sumalan, R.L. The Antioxidant Profile Evaluation of Some Tomato Landraces with Soil Salinity Tolerance Correlated with High Nutraceutical and Functional Value. *Agronomy* 2020, **10**, 500.

Lilia Croitor, Manuela Crisan, Gabriela Vlase, Titus Vlase, Florin Bodnarescu, Radu Sumalan, Mihaela Petric, Anatolii V. Siminel, Paulina Bourosh. Advances in new multicomponent crystal system: structure, thermal kinetic analysis, photoluminescent, and biological activity investigations. *Journal of Thermal Analysis and Calorimetry*. <https://doi.org/10.1007/s10973-020-09524-y>

2019

Vintila, T., **Sumalan, R.**, Popa, N. F., Dragomirescu, M., Ionel, I., and Sala F. (2019). "Microwave and steam mediated alkaline pretreatments of sweet sorghum bagasse: Study of the energy efficiency," *BioRes.* 14(2), 4022-4034.