



**Europass  
Curriculum Vitae**



**Personal information**

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

Address(es) Str.Bujorilor nr 15, Cerneteaz, Timis-home  
Str. Calea Aradului nr.119, 300645, Timisoara- at University

Telephone(s) +40256424232 Mobile +40723547363

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E-mail [sumalanagro@yahoo.com](mailto:sumalanagro@yahoo.com); [plantphysiology.ro@gmail.com](mailto:plantphysiology.ro@gmail.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 Michael I st" from Timisoara, Str. CaleaAradului, 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, Str. 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, Str. 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, Str. 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, Str. 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
<b>Education and training</b>	
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, Str. 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										
<b>Personal skills and competences</b>											
Mother tongue(s)	romanian										
Other language(s)	english, french										
Self-assessment	<b>Understanding</b>				<b>Speaking</b>				<b>Writing</b>		
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production				
<b>English</b>	C1	Effective Operational Proficiency	C1	Effective Operational Proficiency	C1	Effective Operational Proficiency	C1	Effective Operational Proficiency	B1	Independent user	
<b>French</b>	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 oil seeds 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](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 \(0000-0001-5252-8921\) \(orcid.org\)](http://orcid.org/0000-0001-5252-8921)

WOS Hirsch Index- 6,

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

Scopus Hirsch Index-6

**EDITOR,**

Special Issue Editor "Germplasm Resources of Horticultural Crops and Their Use to Improve Abiotic Stress Tolerance" 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. PLANTS (MDPI)
8. FOLIA HORTICULTURAE,
9. HORTICULTURAE,
10. APPLIED SCIENCES.
11. GENES,
12. WATER,
13. Notulae Botanicae Horti Agrobotanici Cluj- Napoca
14. 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>
15. International Advisory Committee of 3rd IFSDAA International Seminar *Crop Science for Food security, Bio-energy and Sustainability*  
<http://www.acss.ws/?t=hungary>
16. International Journal of Bio-resources and Stress Management
17. [World Journal of Agricultural Research](http://www.sciepub.com/journal/WJAR/EditorialBoard),  
<http://www.sciepub.com/journal/WJAR/EditorialBoard>,
18. International Journal of Environmental Bioremediation & Biodegradation  
<http://www.sciepub.com/journal/IJEBB/EditorialBoard>
19. Research in Plant Sciences  
<http://www.sciepub.com/journal/PLANT/EditorialBoard>
20. - Oltenia- Studii și comunicări științifice  
<http://www.olteniastudii.3x.ro/edit.html>
21. Net Journal of Agricultural Science  
[http://www.netjournals.org/agricsci\\_index.html](http://www.netjournals.org/agricsci_index.html)

**Membership of professional bodies,**

Romanian Society of Horticulture  
International Society for Horticultural Sciences  
EUCARPIA  
European Drought Centre- <http://www.geo.uio.no/edc/>  
Member of General Engineering Association from Romania,

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 - 14**

**Postdoctoral researches coordinator - 7**

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

Timisoara,

Signature,

24.10.2022



**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	<b>Project manager</b>	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	<b>Project manager</b>	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	<b>Project manager</b>	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	<b>Project manager</b>	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)	POSDRU/86/1.2/S /62723
8.	Postdoctoral School in Agriculture and Veterinary Medicine	2010-2013	domain responsible- Horticulture	20.019.000 RON	POSDRU/89/1.5/S /6237
9.	Researches concerning the influence of some	2011	<b>Project manager</b>	15.000 euro	Timac Agro International,



	Timac –Agro Bioproducts upon growth and development processes in some cultivated plants				France
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	<b>Project manager</b>	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	<b>Project Manager</b>	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 <a href="http://www.s-stress.ro">www.s-stress.ro</a>	2012-2016	<b>Project manager</b>	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	<b>Project manager</b>	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>Orobancha 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 <a href="http://agroen.eu/">http://agroen.eu/</a>	2016	<b>Project manager</b>	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	<b>Researcher 1</b>	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	<b>Senior researcher</b>	1.122.514,00	SEE NORVEGIAN GRANT

#### Annex 2. Books/book chapter

No	Authors	year	Title	Editors	No pag.
1.	Sumalan Renata, <b>Sumalan Radu</b>	2022	Microbial depreciation of post-harvest primary products	Ed. Eurobit Timisoara, ISBN 978-973-132-872-0	151
2.	<b>Radu-Liviu Sumalan</b> , 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	<b>Intech open</b> 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, <b>R. Şumălan</b>	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, <b>R. Şumălan</b>	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, <b>R. Şumălan</b>	2011	The school of wheat cultivars Vol. I and II	Ed. Eurostampa, Timișoara, ISBN 978-606-569-279-4	171

6.	<b>R. Şumălan,</b> Tabara V., Georgeta Pop, Rusnac L., Iuliana Popescu	2009	Cultivating and processing of oilseeds for obtaining of biofuels (Prize "Haralamb Vasilii" of Romanian Scientists Academy - 2010)	Ed. Eurobit, Timisoara, ISBN 978-973-620-564- 4	366
7.	<b>R. Şumălan</b>	2009	Plant Physiology- elements of Plants Physiology applied in Horticulture	Ed. Eurobit, Timisoara, ISBN 978-973-620-496- 8	318
8.	<b>R. Şumălan</b>	2005	Vegetal Physiology	Ed. Eurobit, Timisoara, ISBN973-620-199-6	330
9.	<b>R. Şumălan</b>	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.	<b>R. Şumălan</b>	2002	Plant physiology	Ed. Eurobit, Timisoara, I.S.B.N.973-620-010-8	181
11.	<b>R. Şumălan</b>	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

#### 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.

## 2018

Carmen BEINSAN, Renata SUMALAN, Giancarla VELICEVICI, Adriana CIULCA and **Radu SUMALAN**. Seed Germination and Physiological Response of Sunflower (*Helianthus annuus* L.) Cultivars under Saline Conditions. *Bulletin UASVM Horticulture* 75(1) / 2018 Print ISSN 1843-5262, Electronic ISSN 1843-536X DOI:10.15835/buasvmcn-hort: 003817.

Beinsan Carmen, Sumalan Renata , Schmidt Brigitta, **Sumalan R.** Researches Concerning the Effects of Incorporation into the Soil of Water-Retainer Polymers on Morpho-Physiological Traits in Bean (*Phaseolus sativum* L.) plantlets Subjected to Drought. Volume 22(1), 35- 39, 2018 *JOURNAL of Horticulture, Forestry and Biotechnology* [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro).

Bodnărescu F., Ciulca S., Copolovici L., **Șumălan R. L.** Sorada - a tomato from grandma's garden a new hybrid created at BUASVM Timisoara. *JOURNAL of Horticulture, Forestry and Biotechnology*, Volume 22(1), 40-47, 2018 [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro).

Noemi Jucsor, Ciulca S., **Sumalan R.** Estimation of leaf area in cup plant (*Silphium perfoliatum*) using different leaf traits. *JOURNAL of Horticulture, Forestry and Biotechnology*, Volume 22(2), 40-44, 2018 [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro).

Noemi Jucsor, **Sumalan R.** Researches concerning the potential of biomass accumulation in cup plant (*Silphium perfoliatum* L.). *JOURNAL of Horticulture, Forestry and Biotechnology*, Volume 22(2), 34-39, 2018 [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro).

Miron M.S., Cristea V. **Sumalan R. L.** Physiological Responses of European Silver Fir (*Abies alba* Mill.) Seedlings to Drought and Overheating Induced Stress Conditions. *JOURNAL of Horticulture, Forestry and Biotechnology*, Volume 22(2), 115-120, 2018 [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro).

## 2017

Sorin CIULCA, Natalia CARP, Emilian MADOȘA, Adriana CIULCA, Radu ȘUMĂLAN Assessment of Combining Ability Effects for several Yield and Quality Traits in a Complete Diallel Cross of Strawberry (*Fragaria × ananassa* Duch.). *Not Bot Horti Agrobo*, 2017, 45(2):517-524. DOI:10.15835/nbha45210873(IF.0,4800)

Tomescu Datiniel, **Sumalan Radu**, Copolovici Lucian and Dana Copolovici (2017) The influence of soil salinity on volatile organic compounds emission and photosynthetic parameters of *Solanum lycopersicum* L. varieties. Open Life Sciences, 12, 135-142. DOI 10.1515/biol-2017-0016

Căprar Marin, Cristina Copaci, Diana Chende, Oana Sicora, **Radu Șumălan** and Cosmin Sicora (2017) Evaluation of Genetic Diversity by DNA Barcoding of Local Tomato Populations from North-Western Romania. Notulae Botanicae Horti Agrobotanici 45 (1):xxx-xxx. DOI:10.15835/nbha451xxxxx

## 2016

Teodor Vintila, Adina Negrea, Horia Barbu, **Radu Sumalan** and Kornel Kovacs (2016). Metal distribution in the process of lignocellulosic ethanol production from heavy metal contaminated sorghum biomass. Journal of Chemical technology and Biotechnology, Volume 91, Issue 6, June 2016, Pages 1607–1614 (IF- 2,349).

**Sumalan R.**, Beinsan Carmen, Schmidt Brigitta, Sumalan Renata, Yvin J.C. Influence of “HAZAL” product on commercial and ornamental characters of *Tagetes patula* L. JOURNAL of Horticulture, Forestry and Biotechnology. Volume 20(2), 87- 92, 2016

**Sumalan R.**, Beinsan Carmen, Gaspar S., Pascaru Adina, Yvin J.C. Researches regarding the influence of fertilization on the main physiological indexes of tomato. JOURNAL of Horticulture, Forestry and Biotechnology. Volume 20(2), 93- 99, 2016

**R. L. Sumalan**, M. S. Miron LONG TERM ANALYSIS OF CLIMATE CHANGE IN SOUTH-EAST EUROPE. CASE STUDY- WESTERN PART OF ROMANIA. Abstract SGEM. DOI: 10.5593/SGEM2016/HB43/S06.021

Renata Maria ȘUMĂLAN, **R.L. SUMALAN**, L. COPOLOVICI, S. CIULCA, JC. YVIN, Adriana CIULCA . RESEARCH ON SUNFLOWER OIL QUALITY IN THE CASE OF *OROBANCHE CUMANA* ATTACK . Research Journal of Agricultural Science, 48 (3), 2016

## 2015

Ancuta Doncean, Renata Șumălan, Carmen Beinșan, Iosif Gergen, **Radu Șumălan** (2015). **Influence of different types and mixtures of composts on quality of tomatoes fruits (*Solanum lycopersicum* L.). Journal of Hygienic Engineering and Design, Vol. 13, pp. 40-47.** <http://www.jhed.mk/filemanager/JHED%20Vol.%2013/02.%20FQS/08%20Ancuta%20Doncean.pdf>

### Conference participation,

Ancuta Doncean, Renata Șumălan, Carmen Beinșan, Iosif Gergen, **Radu Șumălan**- INFLUENCE OF DIFFERENT TYPES AND MIXTURES OF COMPOSTS ON QUALITY OF TOMATOES FRUITS (*SOLANUM LYCOPERSICUM* L.)- Book of abstracts - Food Quality&Safety, Health & Nutrition, Nutricon, 19-20 nov 2015, Skopje Macedonia.

### Conference participation,

**Radu Liviu Sumalan**, Ioana Popescu, Brigitta Schmidt, Renata Maria Sumalan, Cristina Popescu, Sorin Gaspar- Salt tolerant tomatoes local landraces from Romania – Preserving the genetic resources for future sustainable agriculture. [Journal of Biotechnology, Volume 208, Supplement](#), 20 August 2015, Pages S18. EUROPEAN BIOTECHNOLOGY CONGRESS 2015, Bucharest,

Vintila Teodor, **Sumalan Radu**, Gergen Iosif, Pop Georgeta, Kornel Kovacs- Sugar extraction and saccharification of sweet sorghum biomass for biorefining. [Journal of Biotechnology, Volume 208, Supplement](#), 20 August 2015, Pages S12. EUROPEAN BIOTECHNOLOGY CONGRESS 2015, Bucharest,

Teodor Vintilă, Nicolae Popa, Georgeta Pop, Iosif Gergen, Radu Șumălan. Evaluation of fermentation parameters and yeasts selection for ethanol production from sweet sorghum juice. Romanian Biotechnological Letters Vol. 20, No. 6, p. 11076-11083. 2015 (ISI I.F. -0,404, I.S.- 0,160).

**Radu Liviu Sumalan**, Brigitta Schmidt, Doina Carmenica Jitareanu, Renata Maria Sumalan - Changes in rhizosphere microbiome from halotolerant tomato are correlated with physiological and biochemical parameters of oxidative stress in plants. Journal of Biotechnology, **Volume 208, Supplement**, 20 August 2015, Pages S60. EUROPEAN BIOTECHNOLOGY CONGRESS 2015, Bucharest, Conference participation,

Miron M.S., **Sumalan R. L.**, Physiological responses of Norway spruce (*Picea abies* [L.] Karst) seedlings to drought and overheating stress conditions. JOURNAL of Horticulture, Forestry and Biotechnology , Volume 19(2), 146-151, 2015. [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro). <http://www.journal-hfb.usab-tm.ro/romana/2015/Lucrari%20PDF/Lucrari%20PDF%2019%282%29/27Miron%20Marius.pdf>

Tomescu D., **Sumalan R.**, Soran Loredana, Copolovici L.-The influence of soil salinity to chlorophylls and  $\beta$ -carotene contents in *Lycopersicon esculentum* Mill. JOURNAL of Horticulture, Forestry and Biotechnology , Volume 19(2), 35-39, 2015. [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro). <http://www.journal-hfb.usab-tm.ro/romana/2015/Lucrari%20PDF/Lucrari%20PDF%2019%282%29/6%20Tomescu.pdf>

Schmidt Brigitta, **Şumălan R.**, Samfira I. -Study regarding the influence of bacterial strains on improvement of plants for salt tolerance. JOURNAL of Horticulture, Forestry and Biotechnology , Volume 19(2), 206-210, 2015. [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro). <http://www.journal-hfb.usab-tm.ro/romana/2015/Lucrari%20PDF/Lucrari%20PDF%2019%282%29/36Schmidt%20Brigitta.pdf>

Schmidt Brigitta, **Şumălan R.**, Samfira I. -Benefits of arbuscular mycorrhiza on development of marigold in different nutritional conditions. JOURNAL of Horticulture, Forestry and Biotechnology , Volume 19(2), 210-216, 2015. [www.journal-hfb.usab-tm.ro](http://www.journal-hfb.usab-tm.ro). [http://www.journal-hfb.usab-tm.ro/romana/2015/Lucrari%20PDF/Lucrari%20PDF%2019%282%29/37Schmidt%20Brigitta\\_BUN.pdf](http://www.journal-hfb.usab-tm.ro/romana/2015/Lucrari%20PDF/Lucrari%20PDF%2019%282%29/37Schmidt%20Brigitta_BUN.pdf)

BOLDURA Oana, Sorina POPESCU, **Radu SUMALAN**- A Molecular Approach for Identification of Drought Resistant Rapeseed Genotypes Based on Gene Expression. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Animal Science and Biotechnologies. Vol 72 (1), 101-103 [https://www.researchgate.net/profile/Oana\\_Maria\\_Boldura/publication/276272936](https://www.researchgate.net/profile/Oana_Maria_Boldura/publication/276272936)

Hegheduş-Mîndru, R. C.; Hegheduş-Mîndru, G.; Negrea, P.; **Şumălan, R. L.**; Ştef, D. S. - The content in macroelements (Na, K, Ca and Mg) of some fruits collected from Rachita locality, Timis county. Journal of Horticulture, Forestry and Biotechnology 2015 Vol. 19 No. 2 pp. 119-124

#### 2014.

Cristina Popescu, Violeta Turcus, Mirela Ardelean, Calin Ladasiu, Sorin Ciulca, Sorina Popescu, David Chirila, **Radu Sumalan**. Genetic diversity and flavonoid variability among vegetable landraces grown on saline areas from the West part of Romania. Journal of Biotechnology, vol 185, S-34, ISSN: 0168-1656, 2014IF:2,884.

Ciulca S., Renata Sumalan, Sorina Popescu, Brigitta Schmidt, R Sumalan. Univariate and multi-variate analysis of some garlic landraces for bulbs traits. Annals of the University of Craiova Agriculture, Montanology, Cadastre Series) Vol. XLIV. 2014

Sumalan R., Diana Ion, Ioana Popescu, Brigitta Schmidt, Renata Sumalan, D. Camen, S. Ciulca. Assessment of phenotypic diversity for some red onion landraces from Timiş county. Annals of the University of Craiova Agriculture, Montanology, Cadastre Series) Vol. XLIV. 2014

Velicevici Giancarla, E. Madosa, S. Ciulca, R. Sumalan, Adriana Ciulca, Cerasele Petolescu, A.Lazar, Iuliana Cretescu, Mihaela Malaescu. Genetic analysis of roots growth in barley (*Hordeum vulgare*). Journal of Horticulture, Forestry and Biotechnology, Vol.18/1, 2014, 214-219

Hegheduş-Mîndru Ramona Cristina, Hegheduş-Mîndru Gabriel, Negrea Petru, **Şumălan Radu**, Negrea Adina, Ştef Ducu. The monitoring of mineral elements content in fruit purchased in supermarkets and

food markets in Timisoara, Romania. **Annals of Agricultural and Environmental Medicine** 2014, Vol 21, No 1, pag. 98–105 (I.F. 3,060)

Laura Bigyilan, **Radu Sumalan**, Dorin Camen. Modern Sensor Systems In Horticulture. Proceedings of the International Conference “AGRI-FOOD SCIENCES, PROCESSES AND TECHNOLOGIES” - AGRI-FOOD 2014, May 14-15, 2014, Sibiu, Romania.

Brigitta Schmidt, Laura Bigyilan (Suciu), Diana Ion, Yvin Jean-Claude, **Radu Şumălan**. Researches Concerning The Control of Drought at Maize Using Bioproducts. Proceedings of the International Conference “AGRI-FOOD SCIENCES, PROCESSES AND TECHNOLOGIES” - AGRI-FOOD 2014, May14-15, pp 144 -155, 2014, Sibiu, Romania.

Carmen Beinşan, **R. Şumălan**, Ştefania Gâdea, S. Vâtcă. [Physiological Indicators Study Involved in Productivity Increasing in Tomato](#). ProEnvironment 7 (2014),p.218-224

Şimonea Luciana M., **R. Şumălan**. [Germinative response of some common bean landraces from Banat region of Romania](#). [Journal of Horticulture, Forestry and Biotechnology](#) 2014 Vol. 18 No. 2, p. 211-212, ISSN:2066-1797.

Şimonea Luciana M., **R. Şumălan**. [Amino acid composition of some common bean landraces from Caraş-Severin county, of Romania](#). [Journal of Horticulture, Forestry and Biotechnology](#) 2014 Vol. 18 No. 2 p. 208-210,ISSN:2066-1797

**Sumalan R.**, Camen D. Studies Regarding Fertilization Influence Upon Certain Quality And Yield Parameters in Wheat. Proceedings of the International Conference “AGRI-FOOD SCIENCES, PROCESSES AND TECHNOLOGIES” - AGRI-FOOD 2014, May 14 -15, pp. 2014, Sibiu, Romania.

### 2013.

Gabriel Hegheduş-Mîndru, Ramona Cristina Hegheduş-Mîndru, Petru Negrea, **Radu Sumălan**, Teodor Trască, Adina Negrea, Adrian Rivis, Ducu Stef. The comparisons about macro elements content in fruits collected from the Gotlob locality of Timis county. [Journal of Agroalimentary Processes and Technologies](#) 2013, 19(3), pag. 348-354. online at: <http://journal-of-agroalimentary.ro>

Gabriel Hegheduş-Mîndru, Ramona Cristina Hegheduş-Mîndru, Petru Negrea, **Radu Sumălan**, Teodor Trască, Adina Negrea, Adrian Rivis, Ducu Stef. The comparisons about macro elements content in vegetables collected from the Gotlob locality of Timis county. [Journal of Agroalimentary Processes and Technologies](#) 2013, 19(2), pag. 160-166. online at: <http://journal-of-agroalimentary.ro>

Heghedus Mindru Gabriel, Heghedus Mindru Ramona Cristina 1,Negrea Petru2, Negrea Monica1, **Sumalan Radu Liviu** , Stef Ducu Sandu. The comparisons of heavy metal content in vegetables collected from the west side of Romania. **Current Opinion in Biotechnology** 24S (2013) S28–S47.ISSN 0958-1669, <http://dx.doi.org/10.1016/j.copbio.2013.05.070>

Heghedus Mindru Ramona Cristina, Heghedus Mindru Gabriel ,Negrea Petru, **Sumalan Radu**, Negrea Adina, Trasca Teodor Ioan, Rivis Adrian.The monitoring of macroelements from tomatoes and bell peppers samples, collected from Timis County, Romania. **Current Opinion in Biotechnology** 24S (2013) S48–S127.ISSN 0958-1669<http://dx.doi.org/10.1016/j.copbio.2013.05.288>

Gabriel Hegheduş-Mîndru, Ramona Cristina Hegheduş-Mîndru, Petru Negrea, Ducu Sandu Ştef, **Radu Liviu Şumălan**, Lucian Mircea Rusnac. Quantitative Determination by Atomic Absorption Spectrometry For Micro Elements of Mineral Waters from Romania. [Review on Agriculture and Rural Development](#) 2013. vol. 2. (1), pag.245-251. ISSN 2063-4803.

Gabriel Hegheduş-Mîndru, Ramona Cristina Hegheduş-Mîndru, Petru Negrea, Ducu Sandu Ştef, **Radu Liviu Şumălan**, Lucian Mircea Rusnac. Quantitative Determination by Atomic Absorption Spectrometry for Macro Elements of Mineral Waters From Romania. [Review on Agriculture and Rural Development](#) 2013. vol. 2. (1), pag.239-244. ISSN 2063-4803.

Trulea, T. Vintilă, Georgeta Pop, **R. Șumălan**, S. Gașpar. Ensiling sweet sorghum and maize stalks as feedstock for renewable energy production. *Research Journal of Agricultural Science*. Vol 45, No 3. pag.193-199.

D. Camen, **R. Șumălan**, Laura Suciu, Ioana Popescu, Brigitta Schmidt, S. Gaspar, M. Horablaga, F. Viliga, Carmen Beinșan, Mariana Babau, J. C. Yvin, Giancarla Velicevici, Renata Șumălan. Researches concerning the influence of some sulfur fertilizers upon some physiological index, crop quality and quantity of maize. *Research Journal of Agricultural Science*. Vol 45, No 3. pag. 53-57.

D. Camen, **R. Șumălan**, Laura Suciu, Ioana Popescu, Brigitta Schmidt, S. Gaspar, M. Horablaga, F. Viliga, Carmen Beinșan, Mariana Babau, J. C. Yvin, Giancarla Velicevici, Renata Șumălan. Studies regarding the influence of some sulfur fertilizers upon some physiological index, crop quality and quantity of sunflower. *Research Journal of Agricultural Science*. Vol 45, No 3. pag. 49-52

## 2012.

O.Guler, **R.Șumălan** Research on the fungicide efficiency on winter wheat (*Triticum aestivum* L.) plant protection in specific climate conditions from Banat Region “school of varieties program” large scale trials, in farm conditions. 64nd INTERNATIONAL SYMPOSIUM ON CROP PROTECTION, 2012, Faculty of Bioscience Engineering Ghent University Coupure links 653 B-9000, Ghent, Belgium, <http://www.iscp.ugent.be/>

Laura Suciu, R. Șumălan, D.Moga- Integrated sensor-based monitoring system for pest and disease control in greenhouses. 64nd INTERNATIONAL SYMPOSIUM ON CROP PROTECTION, 2012, Faculty of Bioscience Engineering Ghent University Coupure links 653 B-9000, Ghent, Belgium, <http://www.iscp.ugent.be/>

Gaspar S, **R. Sumalan**, Brigitta Schmidt, A. Moisuc- [Study regarding the effect of thermal power station ash on the growing and development of \*Dactylis glomerata\* L.](#) **Journal of Biotechnology**, Volume 161, Supplement, 12-14 april 2012, Page 21, ISSN 0168-1656, Kayseri, Turcia.

Gaspar S., Schmidt Brigitta, **R-L. Sumalan**, A. Moisuc - The effect of ash from thermal power station on the heavy metal content of *Festuca arundinaceae* and *Festuca pratensis*. *Scientific Journal of the University of Szeged, faculty of Agriculture*, 2012, Vol.1 (1), ISSN 2063 – 4803, pag.244 – 248.

Camen D.D., Carmen Beinsan, **R. L. Sumalan**- Study regarding the in vitro regeneration and use perspectives in some *Valeriana officinalis* L. genotypes. *Journal of Agricultural Science*, vol. 4.No.8; 2012 ISSN 1916-9752; E-ISSN 1916-9760. Published by Canadian Center of Science and Education. Doi:10.5539/jas.v4n8p222 URL:<http://dx.doi.org/10.5539/jas.v4n8p222>, IF=0,34.

Velicevici Giancarla, E. Madosa, **R. L. Sumalan**, S. Ciulca, Popescu Sorina, Petolescu Cerasela- The use of RAPD and ISSR markers for genetic diversity among some barley cultivars. **Romanian Biotechnological Letters**, ISSN 1224-5984 , Vol.17, No.4, 2012, pag.7493-7503

Giancarla Velicevici, E. Madosa, **R.L. Sumalan**, Adriana Ciulca, D. Camen, Mihaela Malaescu, Cretescu Iuliana- Screening techniques for drought tolerance in barley (*Hordeum vulgare*). **Journal of Food, Agriculture & Environment**, ISSN 1459-0255 Vol. 10 (3, 4), 721-725

Camen D., Beinsan Carmen, Viliga F., Bigyilan Laura, Yvin J.C.- Researches regarding the influence of fertilization on the main physiological indexes of cucumber. *Journal of Horticulture, Forestry and Biotechnology*, volume 16 (1), pag.73-77, 2012. ISSN 2066-1797.

Camen D., Suciu Laura, Popescu Ioana, Schmidt Brigitta, Beinsan Carmen, Ciulca S., Gaspar S., **Sumalan R.**- Phenotypic diversity evaluation of some bulb characters of local shallot (*Allium ascalonicum*) landraces from saline soils in Banat area. *Annals of the University of Craiova*, Vol.XVII (LIII), pag. 565-570, 2012, ISSN 1453-1275, Craiova.



Camen D., **Sumalan R.**, Beinsan Carmen, Suciu Laura, Popescu Ioana, Viliga F.- Study regarding phenotypic variability of some tomatoes local landraces cultivated in Banat area. Annals of the University of Craiova, Vol.XVII (LIII), pag. 571-576, 2012, ISSN 1453-1275, Craiova.

Viliga F., **R. Sumalan**- Studies concerning the effects of osmotic stress on seed germination and early embryo growth in sorghum [*Sorghum bicolor* (L.) Moench]. Annals of the University of Craiova, Vol.XVII (LIII), pag.863-866, 2012, ISSN 1453-1275, Craiova.