



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) Silvica P. Dureanu

Address "Ion Ionescu de la Brad" Iasi University of Life Sciences, Aleea Mihail Sadoveanu, no. 3, 700490, Romania

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Nationality Romanian

Workplace / Occupational field "Ion Ionescu de la Brad" Iasi University of Life Sciences, Aleea Mihail Sadoveanu, no. 3, 700490, Romania

### Professional experience

Data 2023 - present

Occupation or position held University Professor, PhD habilitated

Main activities and responsibilities Coordination of educational and research activities

Name and address of employer "Ion Ionescu de la Brad" Iasi University of Life Sciences, Aleea Mihail Sadoveanu, no. 3, 700490, Romania

Type of business or sector of activity academic

Areas taught: General Genetics, Cell biology, Human Genetics, Evolutionism, Paleobiology

Responsibilities: Participation in the didactic process. Preparation of didactic activity. Tutoring undergraduate theses. Scientific research activity.

Data 2005 - present

Occupation or position held PhD Associate Professor

Main activities and responsibilities Coordination of educational and research activities

Name and address of employer "Ion Ionescu de la Brad" Iasi University of Life Sciences, Aleea Mihail Sadoveanu, no. 3, 700490, Romania

Type of business or sector of activity academic

Areas taught: General Genetics, Cell biology, Human genetics, Evolutionism, Paleobiology

Responsibilities: Participation in the didactic process. Preparation of didactic activity. Tutoring undergraduate theses. Scientific research activity.

Data 1998-2005

Occupation or position held Lecturer, PhD

Main activities and responsibilities Coordination of educational and research activities

Name and address of employer "Ion Ionescu de la Brad" Iasi University of Agricultural Sciences and Veterinary Medicine, Aleea Mihail Sadoveanu, no. 3, 700490, Romania

Type of business or sector of activity academic

Areas taught: Genetics, Genetics of populations

Responsibilities:	Participation in the didactic process. Preparation of didactic activity. Tutoring undergraduate theses. Scientific research activity.
Data	1990-1998
Occupation or position held	Teacher assistant, PhD
Main activities and responsibilities	Coordination of educational and research activities
Name and address of employer	"Ion Ionescu de la Brad" Iasi Agronomic and Veterinary University Aleea Mihail Sadoveanu, no. 3, 700490, Romania
Type of business or sector of activity	academic
Areas taught:	Genetics
Responsibilities:	Participation in the didactic process. Preparation of didactic activity. Tutoring undergraduate theses. Scientific research activity.
Data	1988-1990
Occupation or position held	Scientific researcher
Main activities and responsibilities	Scientific research activity
Name and address of employer	Research Institute for Viticulture and Winemaking, Valea C lug reasc , Romania
Type of business or sector of activity	Scientific researcher
Data	1981-1988
Occupation or position held	Trainee research engineer
Main activities and responsibilities	Research activity
Name and address of employer	Research Institute for Viticulture and Winemaking, Valea C lug reasc , Romania
Type of business or sector of activity	Scientific researcher
<b>Education and training</b>	
Data	June 2023
Title of qualification awarded	Habilitation degree
Name and type of organisation providing education and training	"Ion Ionescu de la Brad" Iasi University of Life Sciences, Aleea Mihail Sadoveanu, no. 3, 700490, Romania
Data	2001 - 2003
Title of qualification awarded	Master's in Molecular Genetics (serious diploma C, no. 0017976)
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University, Faculty of Biology, Iasi, Bd. Carol I, no. 11, 700506, Romania
Level in national or international classification	ISCED 7 – Master Studies
Data	1977-2001
Title of qualification awarded	Degree in Biology, majoring in Biology (serious diploma T, no. 0024937)
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University, Faculty of Biology, Iasi, Bd. Carol I, no. 11, 700506, Romania
Level in national or international classification	ISCED 6 – Bachelor's Degree
Data	1989 - 1998
Title of qualification awarded	PhD in Agriculture (diploma seria P, nr. 0006993/1998)
Name and type of organisation providing education and training	"Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Faculty of Horticulture, Iasi, Romania

Level in national or international classification	ISCED 8 – Doctoral Studies								
Data	1977 - 1981								
Title of qualification awarded	Engineering diploma in horticulture (diploma no. 467859)								
Name and type of organisation providing education and training	"Ion Ionescu de la Brad" Agronomic Institute, Faculty of Horticulture Iasi, Romania								
Level in national or international classification	ISCED 6 – Bachelor's degree								
<b>Personal skills and competences</b>									
Native language(s)	Romanian								
Other language(s)	French, Italian								
Self-assessment	Understanding			Speaking				Written	
European level (*)	Listening		Reading		Verbal interaction		Vocal production		
French	B2		C2		B1		B1		
Italian	A2		B1		A2		A2		
	(*) Common European Framework of Reference for Languages								
Organisational competences and skills	<ul style="list-style-type: none"> <li>- pedagogical skills;</li> <li>- guidance and counseling of students;</li> <li>- in charge of the bachelor's program, majoring in Biology (2009-2017).</li> </ul>								
Technical skills and competencies	<ul style="list-style-type: none"> <li>- research activity and implementation of experimental protocols;</li> <li>- the development of scientific papers;</li> <li>- the development of books and university textbooks;</li> <li>- scientific reviewer for BDI and ISI level scientific papers;</li> <li>- official referent in the doctoral theses committee;</li> <li>- official referent in promotion commissions in the teaching career;</li> <li>- member of the USAMV Iasi senate (2012-2016);</li> <li>- member of the license examination committee.</li> </ul>								
Computer skills and abilities	Microsoft Office user: Word, Excel, Power Point, Internet Explorer.								
Membership in scientific/professional associations	Romanian Society of Cell Biology; Society of Agrarian History and Retrology from Romania; Romanian Society of Horticulturists; Association of Romanian Food Industry specialists, from education, research and production								
Communication and interpersonal skills	<ul style="list-style-type: none"> <li>- good communication skills acquired through own experience as a university teacher;</li> <li>- interaction skills with students and colleagues acquired through teaching activity.</li> </ul>								
Other skills acquired at work	- good mentor in instructing and training students.								

Publications 4 books with ISBN as single author; lithographed books (courses) as sole author: Cell Biology (2013), Genetics of populations, (2009), Human Genetics (2013), Cytology and cell biology (2009), Evolutionism (2023), Paleobiology (2012), Collection and Conservation of Didactic Material (2014).

163 scientific articles published in extenso in specialized journals, of which 101 as sole or first author, 11 published in volumes of international and national conferences, 13 in ISI journals (5 first author, 1 corresponding, 7 co-author), 49 in journals reviewed in BDI, 90 in volumes of national scientific events with ISBN/ISSN.

Books:

P DUREANU Silvica, 2004- General Genetics, Ed. „Ion Ionescu de la Brad” Iasi, 315 pp., ISBN 973-7921-32-1.

P DUREANU Silvica, 2004 - Elements of Molecular Genetics, Ed. „Ion Ionescu de la Brad” Iasi, 329 pp., ISBN 973-7921-37-2.

P DUREANU Silvica, 2011- Environmental pollution and Nature protection, Ed. Tehnopress, Iasi, 329 pp., ISBN 978-973-702-891-4.

P DUREANU Silvica, 2023 - Cellular and Molecular Biology, Ed. „Ion Ionescu de la Brad” Iasi, 333 pp., ISBN 978-973-147-477-9.

Representative scientific papers:

P dureanu S., Burlica R., Stoleru V., Beniga O., Dirlau D., Cretu D.E., Astanei D., Patras A., 2023 - Non-Thermal Plasma-Activated Water: A Cytogenotoxic Potential on *Triticum aestivum*. *Agronomy*, 13(2), 459. <https://doi.org/10.3390/agronomy13020459>, WOS:000938080900001

P dureanu S., Patras A., 2022. Biological Response of *Triticum aestivum* L. to the abiotic stress induced by winemaking waste. *Agronomy*, 2022, 12(6),1371. <https://doi.org/10.3390/agronomy12061371> WOS:000816091900001.

P dureanu Silvica, Patras A., 2020 - Germination potential and pollen tube growth in *Galanthus nivalis* L. *Flora*, 264, p.151556. <https://doi.org/10.1016/j.flora.2020.151556>, WOS:00052001780000

P dureanu Silvica, Patras Antoanela, 2018 - Palynological characterization, germination potential and pollen tube growth of direct producer hybrids Noah and Othello (*Vitis* genus). *Flora*, vol.240, p.58-67. <https://doi.org/10.1016/j.flora.2018.01.005>.WOS:000427998600008

Jit reanu A., P dureanu S., T t rãng G., Tuchilu C., St nescu U., 2013 – Evaluation of phytotoxic and mutagenic effects of some cinnamic acid derivatives using the *Triticum test*, *Turk. J. Biol.*, ISSN 1300-0152, vol. 37(6), p. 748-756. <https://doi.org/10.3906/biy-1304-39>, WOS:000325747400015

P dureanu S., Stoleru V., Patras A., Burlica R., Dirlau D., Astanei D., Beniuga O., 2018 - Effect of non-thermal activated water on *Lactuca sativa* L. germination dynamic. pp. 889-892, Indexed 2019-03-01, [10th International Conference and Expositions on Electrical and Power Engineering \(EPE\)](https://doi.org/10.1016/j.flora.2018.01.005), Iasi, Romania. Document Type: Proceedings Paper. ISBN: 978-1-5386-5062-2, ISSN: 2471-6855, <https://ieeexplore.ieee.org/document/8559798>, DOI: 10.1109/ICEPE 2018.8559798, WOS:000458752200173

Jit reanu A., Caba I.C., Trifan A., P dureanu S., Agoroaei L.A., 2019 - *Triticum aestivum* Assay - A Useful Tool for Environmental Monitoring and Toxicity Assessment. *Not Bot Horti Agrobo*, 47(4), p. 1005-1018. ISSN: 0255-965X, eISSN:1842-4309, <https://doi.org/10.15835/nbha47411349>, WOS:000508003800001

Stoleru V., Burlica R., Mihalache G., Dirlau D., P dureanu S., Teliban G., Astanei D., Cojocaru A., Beniuga O., Patras A., 2020 - Plant growth promotion effect of plasma activated water on *Lactuca sativa* L. cultivated in two different volumes of substrate. *Scientific Reports*, 10, 20920. ISSN:2045-2322, <https://doi.org/10.1038/s41598-020-77355-w>, WOS:000608975400032

P dureanu Silvica, 2005 - Cytogenetic effects induced by acetate of lead on mitotic division at *Allium cepa* L. *Anale t. Univ. "Al.I. Cuza" Ia i, Genetic i Biologie molecular*, tom. V, ISSN: 1582-3571, p. 201-206 <https://doaj.org/article/71e7760897a44575928ec78ff441afe7>

P dureanu Silvica, 2004 – Cytogenetics effects induced by natrium pentacyano-mononitroso-ferrat III on the mitotic division at *Allium cepa* L. *Lucr. t. U. .A.M.V. Ia i, ser. Agron.*, vol. 47, ISSN: 1454-7414, p. 121-126, CAB Abstract Record Number : 20083022434.

P dureanu Silvica, 2005 - Cytogenetics effects induced by nitrate of lead on mitotic division at *Allium cepa* L. *Anale t. Univ. "Al.I. Cuza" Ia i, Genetic i Biologie molecular*, tom. VI, ISSN: 1582-3571, p. 201-206, <https://doaj.org/article/7a48a0a5f2204ee5be986a85d0687907>.

P dureanu Silvica, 2005 – The cytogenetics effects induced by acetate of lead upon the mitotic division of *Lycopersicum esculentum* Mill., *Lucr. t. U. .A.M.V. Ia i, ser. Hortic.*, vol. 48 (1), ISSN: 1454-7376, p. 475-480, CAB Abstracts Record Number : 20083201766

P dureanu Silvica, 2012 – The influence of cold plasma produced by Glid/Arc without water vapor, upon the cells division in *Triticum aestivum* L., *Lucr. st. U.S.A.M.V. Iasi, ser. Agron.*, vol. 55 (2), ISSN: 1454-7414, p. 119-124, CAB Abstracts Record Number : 20133022947

P dureanu Silvica, Hnatiuc E., Oancea Servilia, Hnatiuc B., Gavril B., 2009 – Induced effects by Glid Arc treatment on the mitotic division and on the growth process in *Triticum aestivum* L. *International Symposium on Plasma Chemistry, sect. Non-equilibrium effects and atmospheric pressure plasmas, Ruhr-University Bochum, Germany, ISPC 19*, p. 204-209.

Awards/distinctions	Scientific papers awarded within UEFISCDI.
Award-winning scientific articles	<p>1. prize for the article: P. Dureanu, Silvița, Patras A., 2020 - Germination potential and pollen tube growth in <i>Galanthus nivalis</i> L. <i>Flora</i>, 264, 151556, WOS:000520017800007. ISSN: 0367-2530, <a href="https://www.sciencedirect.com/science/article/pii/S0367253020300207">https://www.sciencedirect.com/science/article/pii/S0367253020300207</a>; <a href="https://doi.org/10.1016/j.flora.2020.151556">https://doi.org/10.1016/j.flora.2020.151556</a>. <i>Flora</i>, 2 autori, premiu acordat în 2020 de UEFISCDI - <a href="https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole">https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole</a>.</p> <p>2. prize for the article: Ghendov-Mosanu A., Cristea E., Patras A., Sturza R., P. Dureanu S., Deseatnicova O., Turculeț N., Boestean O., Niculaua M., 2020 - Potential Application of <i>Hippophae rhamnoides</i> in Wheat Bread Production. <i>Molecules</i>, 25(6): 1272, doi: 10.3390/molecules25061272. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7144010/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7144010/</a>, <i>Molecules</i>, 9 autori, premiu acordat în 2020 de UEFISCDI - <a href="https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole">https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole</a>.</p> <p>3. prize for the article: Stoleru V., Burlica R., Mihalache G., Dirlau D., P. Dureanu S., Teliban G., Astanei D., Cojocar A., Beniuga O., Patras A., 2020 - Plant growth promotion effect of plasma activated water on <i>Lactuca sativa</i> L. cultivated in two different volumes of substrate. <i>Scientific Reports</i>, 10, 20920. <a href="https://doi.org/10.1038/s41598-020-77355-w">https://doi.org/10.1038/s41598-020-77355-w</a>, 10 autori, premiu acordat în 2021 de UEFISCDI - <a href="https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole">https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole</a>.</p>
Research projects	<p>Director/ project manager/member of the research team:</p> <p>CEEX 640/03.2005 - Use of morphological, structural, ultrastructural and biochemical biomarkers in the assessment of anthropogenic impacts on biodiversity in Ceahlău National Park and adjacent area.</p> <p>PN III 361PED/2020 - Experimental model for demonstrating the feasibility of increasing the therapeutic potential of wheat germs by treating them with non-thermal plasma activated water (PAW).</p> <p>CNCSIS 669/2005 - Effect of climatic fluctuations on physiological, biochemical processes and some cytological aspects involved in sunflower oil biosynthesis and quality in the Moldavian Plain. CEEX NR. 1480/06.10.2005 - Novel multifunctional nanocomposites based on mesoporous clays with multidisciplinary applications, NANO-AGMAN.</p> <p>PN III - EUROPEAN AND INTERNATIONAL COOPERATION 48BM/2016 - New methods to increase the sanogenic potential of germs.</p> <p>Cross-border project 2SOFT/ 1.2/83/02.09.2020 - Intelligent valorisation of agro-food industrial wastes - INTELWASTES.</p> <p>PN III PCE 15/2017 - INCREASING AGRICULTURAL PRODUCTION IN GREENHOUSES USING NON-THERMAL PLASMA ACTIVATED WATER IRRIGATION [AWAG].</p> <p>AUF-ECO_RI_SRI_2021_20_USAMVIIBI_ZERODECHET, 11.05.2021- Horticultural waste for health and environmental benefit, a new approach to "zero waste".</p>
Annexes	<p>Postgraduate specialisations:</p> <ul style="list-style-type: none"> <li>- Training in Human Immunology - European Training Foundation (TEMPUS-Phare) and with the support of CNRS and l'INSERM (France), at "Al.I. Cuza" University and "Gr. T. Popa" of Iași, Romania - Attestation CME 01173-95/1996;</li> <li>- Specialization in optical microscopy and meristematic cultures "in vitro" in vine genetics - Fitotronul S.C.P.V.V. Ștefănești, Romania, 1989;</li> <li>- Professional training course in breeding genetics - A.S.A.S., Research Institute for Cereals and Technical Plants, Fundulea, Romania, 1989;</li> <li>- Introductory course for researchers in computer science - A.S.A.S., Bucharest Romania, 1987;</li> <li>- Advanced course in science and informatics, modern research methodologies - A.S.A.S., Bucharest Romania, 1986;</li> <li>- Specialization internship at the Central Institute of Biological Sciences in Bucharest, laboratory of genetic engineering and morphogenetics, cytology, histology and cytogenetic techniques, Bucharest, Romania, 1986.</li> </ul>

09.18. 2023

Professor, PhD habil. Silvița P. DUREANU,