



## Curriculum vitae Europass

### Personal information

Nume / Prenume

Bunuc Anca Livia

Adresă(e)

Cluj-Napoca, Romania

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Naționalitate(-tăți)

Romanian

Data nașterii

20.11.1968

Sex

Female

### Occupational field

Biology/Biotechnology

### Work experience

Occupation or position held

2003-2014

Lecturer

2014-present

Associate professor

Main activities and responsibilities

**Teaching activity:** teaching Biotechnology courses, laboratory work; coordination of BSc and MSc diploma works

**Research activity:** analysis of intra and interpopulation genetic variability by molecular markers in different valuable plant species; molecular genotyping of plant species or cultivars; cloning of plant species, in vitro cultures; analysis of genetic stability in preserved plants; molecular characterization of soil bacterial community, molecular identification of bacterial resistance to antibiotics and biocides; identification of class I integrons and resistance cassettes in bacteria from soil and water; polymorphism of CRISPR loci in bacteria; role of CRISPR-Cas system in horizontal gene transfer.

**15 research projects as coordinator or partner coordinator**

**12 research projects as member**

**Managerial activity:** head of department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, member in faculty board, students coordinator.

Name and address of employer

Babeș-Bolyai University, 1 Kogalniceanu Street, 400084 Cluj-Napoca, Romania

Type of business or sector

Universitary education and scientific research

Dates

1995-2003

Occupation or position held

Research assistant: 1995-1999

Researcher: 1999-2002

Researcher III: 2002-2003

Main activities and responsibilities

**Research activity:** cloning of plant species, in vitro cultures; analysis of genetic stability in preserved plants.

**Teaching activity:** teaching Plant Histology and laboratory work;

Name and address of employer

Institute of Biological Research, 48 Republicii street, Romania

Type of business or sector

Scientific research

### Education and training

Date	2017
Title of qualification awarded	Habilitation
Name and type of organisation providing education and training	Babeş-Bolyai University, Cluj-Napoca
Date	1990-1996
Title of qualification awarded	Ph.D in biology
Principal subjects/occupational skills covered	Studies regarding in vitro organogenesis of some endangered plants from Romania
Name and type of organisation providing education and training	Babeş-Bolyai University, Cluj-Napoca, Faculty of Biology and Geology /University education and scientific research
Level in national or international classification	Level 6 Postuniversity
Date	1997-1998
Title of qualification awarded	Postgraduate diploma
Principal subjects/occupational skills covered	International Training Course on Molecular Biology
Name and type of organisation providing education and training	Biological Research Center, Szeged, Hungary
Level in national or international classification	Level 6 Postuniversity
Date	15.10.2016-14.12.2016 and 01.10-01.12.2021
Title of qualification awarded	Diploma
Principal subjects/occupational skills covered	DAAD/Research stays for university academics and researchers
Name and type of organisation providing education and training	Institute for Breeding Research on Horticultural Crops (Julius Kühn-Institut, Federal Research Centre for Cultivated Plants), Quedlinburg, Germany.
Level in national or international classification	Level 6 Postuniversity
Date	1995-1996
Title of qualification awarded	MSc diploma
Principal subjects/occupational skills covered	Disciplines of the Biology domain: Molecular Biology and genetics, Advanced biochemistry,
Name and type of organisation providing education and training	Babeş-Bolyai University, Cluj-Napoca, Faculty of Biology and Geology /University education and scientific research
Level in national or international classification	Level 6 Postuniversity
Date	1991-1995

Title of qualification awarded	BSc diploma																																														
Principal subjects/occupational skills covered	Disciplines of the Biology domain																																														
Name and type of organisation providing education and training	Babeş-Bolyai University, Cluj-Napoca, Faculty of Biology and Geology /University education and scientific research																																														
Level in national or international classification	Level 5 University education																																														
Date	1994-1995																																														
Title of qualification awarded	Graduate diploma																																														
Principal subjects/occupational skills covered	University pedagogic module; disciplines of the didactic domain: pedagogy, methodics and general psychology.																																														
Name and type of organisation providing education and training	Babeş-Bolyai University, Cluj-Napoca, Faculty of Biology and Geology/University education and scientific research																																														
Level in national or international classification	Level 5 University education																																														
<b>Personal skills and competences</b>																																															
Mother tongue(s)	Romanian																																														
Other language(s)																																															
Self-assessment																																															
<b>European level (*)</b>																																															
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	(*) <a href="#">Common European Framework of Reference for Languages</a>																																														
Social skills and competences	Good capacity of socializing: establishing cooperative relations with colleagues, both in Romania, and abroad																																														
Organisational skills and competences	Good organizer of work in classes and laboratory; coordination of over 20 BSc diploma work; good organization of laboratory equipment; coordination of a staff's research activity in laboratory, developed through years of research activity																																														
Computer skills and competences	Good competence in PC utilization: Microsoft Office: Excel, Word, Power Point																																														
<b>Additional information</b>																																															
Affiliation	<ul style="list-style-type: none"> <li>Member in National Society of Cellular and Molecular Biology</li> <li>Member in Romanian Society of Biochemistry and Molecular Biology</li> <li>Member in Romanian Society of Plant Tissue and Organ Cultures</li> <li>Member in International Society of Plant Tissue and Organ Cultures</li> </ul>																																														

Cooperation	<ul style="list-style-type: none"> <li>• 2003-2004: Long term preservation of several endangered plants from Romanian and Belgium Flora: <i>Arnica montana</i>, <i>Drosera rotundifolia</i> și <i>Lilium martagon</i>. Project of bilateral colaboration with Haute Ecole Charlemagne, Belgia. Coordinator: Dr. Anca Keul.</li> <li>• 2009-2010: Analysis of expression of several genes involved in branching in plants. Project of bilateral colaboration with University of Pisa, Italia. Coordinator: Dr. Cristina Dobrotă.</li> <li>• 2015-2016: 2015-2016 SEE Project, Methodological guide for monitoring antibiotic residues and antimicrobial resistance in the environment as a supporting instrument for an enhanced quality management of surface waters and groundwater (partner coordinator).</li> </ul>
Others	<p>Courses of University management and Quality management in universities.</p> <p><b>Prizes for research articles</b></p> <ul style="list-style-type: none"> <li>• PN-II-RU-PRECISI-2012-6-0755-Physico-chemical and biological studies on water from Aries River (Romania), J Environ Manage, 95: 3-8.</li> <li>• PN-II-RU-PRECISI-2012-6-1287-DNA-based diagnostic tests for Salmonella strains targeting hlyA, agfA, spvC and sef genes, J Environ Manage, 95: 15-18.</li> <li>• PN-II-RU-PRECISI-2013-7-3939-Microbiological contamination and resistance genes in biofilms occurring during the drinking water treatment process, Sci Total Environ, 443: 932-938.</li> <li>• PN-II-RU-PRECISI-2015-9-9870-Characterization of halophilic bacterial communities in Turda Salt Mine (Romania), Orig Life Evol Biosph, 44(3): 223-230.</li> <li>• PN-III-P1-1.1-PRECISI-2016-13409-Exploring the role of coliform bacteria in class 1 integron carriage and biofilm formation during drinking water treatment, Microb Ecol, 72(4): 773-782.</li> <li>• PN-III-P1-1.1-PRECISI-2019-64372-Molecular characterization of apple (<i>Malus × domestica</i> Borkh.) genotypes originating from three complementary conservation strategies. Turk J Agric Forestry, 43: 464-477.</li> </ul>

### Research projects:

1996-1998- Plant cell culture for pharmaceutical compounds production (member).

1995-1998- Somatic embryogenesis and artificial seeds production (member).

1999-2000- Characterization of the *in vitro* morphogenesis by molecular markers (member).

1999-2000-Grant CNCSIS- Studies on the molecular mechanism of photosynthesis *in vitro* and *in vivo* (coordinator).

2000-2001-Production of valuable biological active compounds by biotransformation reactions with *in vitro* plant cell suspension (member).

2001-2002: Grant CNCSIS T 138/2000-Studies concerning the influence of environmental stresses on the biomass production and on ontogenetic processes in *in vitro* cultures of algal cells and of tissues of some rare plants (member).

2001-2004-National Program BIOTECH, 01 – 2 - CPD – 4: Preservation of regeneration capacity of potato apices in order to their preservation in gene banks (member).

2002-2004-Grant CNCSIS, 441-Synthesis and accumulation of tropane alkaloids in induced tissue and cell cultures of *Scopolia carniolica* (member).

2002-2004- National Program BIOTECH, 02-2-PED-397: *In vitro* propagation and genetic variability of apricot (coordinator).

2003-2004-Grant A<sub>T</sub> CNCSIS-Biochemical characterisation of *in vitro* plantlets of *Atropa belladonna* obtained *in vitro* (coordinator).

2003-2005- National Program CERES, Contract nr. 3-46: Study of photoinhibition and photoprotection of photosynthetic apparatus at molecular level in plants (coordinator).

2003-2005-Program Biostar, Nr. 29.05.05/2003. II/4: Growth, development and biosynthesis of primary and secondary metabolites in medicinal plants cultivated *in vivo* and *in vitro* under the influence of some physico-chemical factors (member).

2004-2006-Biotech 04–2-PED– 4527/ 3.12.2004 Evaluation of genetic stability by molecular markers of strawberry plantlets after cryoconservation (partner coordinator).

2005-2008-CEEX, 19/2005: Identification of genetic variability by molecular markers and cryopreservation of valuable germplasm resources of grapevine (coordinator).

2005-2008- CEEX, BIOTECH, Contract Nr. 8/07.10.2005: Evaluation of *Peucedanum* species (fam. Apiaceae) from Transylvania in order to their durable usage in phytotherapy (partner coordinator).

2006-2008-CEEX, Contract Nr. 98/01.08.2006: Biological, biochemical, chorological and bioproductive studies of some wild species of *Epilobium* (fam. Onagraceae) from Transylvania, in order to obtaine pharmaceutical extracts for treatment of prostate adenoma (partner coordinator).

2006-2008-CEEX, CERES, Contract 61/2006: Evaluation of ecophysiological and cyto-genotoxic effects of some xenobiotics in polluted aquatic ecosystems (partner coordinator).

2006-2008- Grant A CNC SIS 1338/2006: In vitro multiplication and clonal selection of some species of *Echinacea*, for biomass production for pharmaceutical industry (coordinator).

2007-2010-PNII Partnerships 61-067/2007, Biodiversity conservation and characterization of genetical resources of apple in order to their preservation in gene banks (partner coordinator).

2007-2010-PNII Partnerships 51-029/2007, Evaluation and mapping of genetic diversity of native species of oak from Romania for durable administration of forest ecosystems and dinamic conservation of genetical resources (partner coordinator).

2007-2010-PNII Partnerships 61-005/2007, Morpho-biochemical and genetic evaluation of some populations of *Hypericum* from Transylvania for identification and conservation of high productive genotypes and their durable usage in phytotherapy (partner coordinator).

2007-2010-PNII Partnerships 51-085/2007, Molecular biotechnologies used for amelioration of valuable economical plants (member).

2007-2010-PNII Partnerships 61-007/2007, Study of the variability of some genes involved in multiple rezistance against antibiotics of main bacterial agents involved in noyocomial infections in order to develop and clinical implementation of the methods of molecular diagnostic (member).

2007-2010-PNII Partnerships 31-008/2007, Consolidation of biodiversity by ex situ conservation and evaluation of somaclonal variability by genomic analysis of endemic or endangered taxa from NATURA 2000 sites (member).

2007-2010-PNII Partnerships 31-015/2007, Study of biodiversity of fir and spruce forests from Natura 2000 sites by modern, pluridisciplinary methods (member).

2008-2011-PNII Partnerships 52-1725/2008, Conservation of native cultivars of ornamental plants with floricol significance (member).

2015-2016 SEE Project, Methodological guide for monitoring antibiotic residues and antimicrobial resistance in the environment as a supporting instrument for an enhanced quality management of surface waters and groundwater (partner coordinator).

#### Most relevant publications:

##### ISI quoted papers as principal author

1. **Butiuc-Keul, A.**, Deliu, C., 2001, Clonal propagation of *Arnica montana* L., a medicinal plant, In Vitro Cell. Dev. Biol. Plant, 37, **5**: 581-585. **IF=1.497**
2. **Butiuc-Keul, A.**, Şuteu, A., Deliu, C., 2005, In vitro organogenesis of *Gentiana punctata*, Not. Bot. Hort. Agrobot. XXXIII, 38-40. **IF= 0.59**
3. **Butiuc-Keul, A.**, Crăciunaş, C, Coste, A., Farago, M., 2010, Discrimination and genetic polymorphism in several cultivar of grapevine by RAPD markers, Rom. Biotechnol. Lett., 15:1, 110-115. **IF=0.152**
4. Coste, A., Postolache, D., Popescu, F., **Butiuc-Keul, A.**, 2010, Autentication of valuable grapevine varieties from Romania, through molecular markers, Rom. Biotechnol. Lett., 15:1, 3-10. **IF=0.152**
5. **Butiuc-Keul, A.**, Coste, A., Crăciunaş, C., 2011, Molecular characterization and *in vitro* preservation of some grapevine cultivars, Rom. Biotechnol. Lett., 16:3, 6226-6233. **IF=0.152**
6. **Butiuc-Keul, A.**, Momeu, L., Craciunas, C., Dobrota, C., Cuna, S., Balas, G., 2012, Physico-chemical and biological studies on water from Aries River (Romania), J Environ. Manag., 95: 3-8. **IF=3.245**
7. **Butiuc-Keul, A.L**, Vlase, L., Crăciunaş, C., 2012, Clonal propagation and production of cichoric acid in three species of *Echinaceae*, In Vitro Dev. Biol-Plant, 48(2): 249-258. **IF=1.497**
8. Coste, A., Halmagyi, A., **Butiuc-Keul, A.**, Deliu, C., Coldea, G., Hurdu, B., 2012, In vitro propagation and cryopreservation of Romanian endemic and rare *Hypericum* species, Plant Cell Tiss Organ Cult., 110: 213–226. DOI 10.1007/s11240-012-0144-7. **IF=3.090**
9. Farkas, A., **Butiuc-Keul, A.**, Ciatarâş, D., Neamţu, C., Crăciunaş, C., Podar, D., Drăgan-Bularda M., 2013, Microbiological contamination and resistance genes in biofilms occurring during the drinking water treatment process, Sci Total Environ., 443:932–938. **IF=3.258**

10. Jarda, L., **Butiuc-Keul, A.**, Hohn, M., Pedryc, A., Cristea, V., 2014, Ex situ conservation of *Dianthus giganteus* d'Urv. subsp. *banaticus* (Heuff.) Tutin by in vitro culture and assessment of somaclonal variability by molecular markers, *Turk. J. Biol.*, 38: 21-30. **IF=1.216**
11. Cristea, V., Crăciunaș, C., Marcu, D., Palada, M., **Butiuc-Keul, A.**, 2014, Genetic Stability during *in vitro* propagation of *Dianthus spiculifolius* Schur, *Propagation of Ornamental Plants.*, 14(1): 26-31. **IF=0.351**
12. Farkas, A., Crăciunaș, C., Chiriac, C., Szekeres, E., Coman, C., **Butiuc-Keul, A.**, 2016, Exploring the role of coliform bacteria in class 1 integron carriage and biofilm formation during drinking water treatment, *Microb. Ecol.*, 72(4): 773-782. **IF=3.232**
13. Farkas, A., Bocoș, B., **Butiuc-Keul, A.**, 2016, Antibiotic resistance and intI1 carriage in waterborne Enterobacteriaceae, *Water Air Soil Pollution*, 227: 251 doi:10.1007/s11270-016-2944-6. **IF=1.551**
14. **Butiuc-Keul, A.**, Crăciunaș, C., Goia, I., Farkas, A., Cristea, V., 2018, Genetic structure of populations of several endangered and endemic *Dianthus* species revealed by microsatellite markers. *Acta Bot Croatica*, 77 (2): 181-188. **IF=1.434**
15. Cristea, V., Besenyei, E., Jarda, L., Farkas, A., Marcu, D., Clapa, D., Halmagyi, A., **Butiuc-Keul, A.**, 2019, *in situ* genetic variability and micropropagation of *Cerastium banaticum* (rochel) heuff. (Caryophyllaceae) – a rare and endemic species from Romania, *Acta Biol Cracov, Ser Botanica*, 6(1): 53-62. **IF=1.111**
16. **Butiuc-Keul, A.**, Coste, A., Farkas, A., Cristea, V., Isac, V., Halmagyi, A., 2019, Molecular characterization of apple (*Malus × domestica* Borkh.) genotypes originating from three complementary conservation strategies. *Turk J Agric Forestry*, 43: 464-477. **IF=1.731**
17. Farkas, A., Mereuti, M., **Butiuc-Keul, A.**, Podar, D., Roba, C., Bălc, R., 2020, Effects of long-term exposure to heavy metals upon rhizosphere bacteria from Baia Mare area (Maramureș County, Romania), *Geomicrobiol J*, 37:9, 867-876. **IF=1.989**
18. Halmagyi, A., Coste, A., Jarda, L. **Butiuc-Keul, A.**, Holobiuc, I., Cristea, V., 2020, A safeguard measure of endemic and endangered plant species: cryostorage of *Dianthus* taxa. *Biodivers Conserv*, 29: 3445–3460. **IF=2.935**
19. **Butiuc-Keul, A.**, Carpa, R., Podar, D., Szekeres, E., Muntean, V., Iordache, D., Farkas, A., 2021, Antibiotic resistance in *Pseudomonas* spp. through the urban water cycle. *Curr Microbiol*, 78:1227–1237. **IF=2.188**
20. Dobrota, C.T., Carpa, R., **Butiuc-Keul, A.**, 2021, Analysis of designs used in monitoring crop growth based on remote sensing methods. *Turk J Agric Forestry*, 45(6), 730-742. **IF=2.585**
21. **Butiuc-Keul, A.**, Coste, A., Budahn, H., Dunemann, F., Farkas, A., Postolache, D., Klocke, K. 2022, Analysis of *Hypericum* accessions by DNA fingerprinting and flow cytometry. *Acta Bot Croatica*, 1(1): 1-11. <https://doi.org/10.37427/botcro-2021-026>. **IF=0.981**
22. **Butiuc-Keul, A.**, Coste, A., Postolache, D., Laslo, V., Halmagyi, A., Cristea, V., Farkas, A., 2022, Molecular characterization of *Prunus* cultivars from Romania by microsatellite markers. *Horticulturae* 8(291). <https://doi.org/10.3390/horticulturae8040291>. **IF=2.331**
23. **Butiuc-Keul, A.**, Farkas, A., Carpa, R., Dobrota, C.T., Iordache, D., 2022, Development of smart fruit crops by genome editing. *Turk J Agric Forestry*, 46, 129-140. **IF=2.585**
24. Toc, D.A., **Butiuc-Keul, A.L.**, Iordache, D., Botan, A., Mihaila, R.M., Costache, C.A., Colosi, I.A., Chiorean, C., Neagoe, D.S., Gheorghiu, L., Junie, L.M. 2022, Descriptive analysis of circulating antimicrobial resistance genes in vancomycin-resistant *Enterococcus* (VRE) during the COVID-19 pandemic. *Biomedicines*, 10(5): 1122. <https://doi.org/10.3390/biomedicines10051122>. **IF=6.081**
25. Hurdu, B.I., Coste, A., Halmagyi, A., Szatmari, P.M., Farkas, A., Puscas, M., Turtureanu, P.D., Rosca-Casian, O., Tănase, C., Oprea, A., Mardari, C., Răduțoiu, D., Comănescu, P.C., Sîrbu, I.M., Stoie, A., Lupoaie, P., Cristea, V., Jarda, L., Holobiuc, I., Goia, I., Cătană, C., **Butiuc-Keul, A.** 2022. Ex situ conservation of plant diversity in Romania: a synthesis of threatened and endemic taxa. *J. Nat. Conserv.*, 68: 126211. <https://doi.org/10.1016/j.jnc.2022.126211>. **IF=2.831**
26. Carpa, R., Remizovschi, A., Culda, C.A., **Butiuc-Keul, A.L.**, 2022, Inherent and composite hydrogels as promising materials to limit antimicrobial resistance. *Gels*, 8(70). <https://doi.org/10.3390/gels8020070>. **IF=4.702**
27. Farkas, A., Coman, C., Szekeres, E., Teban-Man, A., Carpa, R., **Butiuc-Keul, A.**, 2022, Molecular typing reveals environmental dispersion of antibiotic-resistant *eEnterococci* under anthropogenic pressure. *Antibiotic.*, 11(9):1213. <https://doi.org/10.3390/antibiotics11091213>. **IF=5.222**

#### ISI quoted papers as contributor

1. Curtu, A.L., Șofletea, N., Radu, R., Bacea, A., Abrudan, I.V., **Butiuc-Keul, A.**, Fărcaș, S., 2009, Allozyme Variation of Coniferous Tree Species from Maramures Mountains, Romania, *Not. Bot. Hort. Agrobot. Cluj* 37 (2): 245-251. **IF=0.59**
2. Carpa, R., **Butiuc-Keul, A.**, Dobrota, C., Muntean, V., 2010, Molecular identification of diazotroph microbial consortia in mountain soil, *Central European J Biol.*, 5(5): 664-673. **IF=0.915**

3. Şipoş, M., **Butiuc-Keul, A.**, Samuel, A.D., Blidar, C.F., 2010, Liquid nitrogen storage of barley and Triticale caryopses does not influence the isoperoxidase pattern during their germination, Rom. Agric. Res., 27: 95-101. **IF=0.31**
4. Crăciunaş, C., **Butiuc-Keul, A.**, Flonta, M., Cristea, M., 2012, DNA-Based Diagnostic Tests for Salmonella strains targeting *hilA*, *agfA*, *spvC* and *sef* genes, J Environ. Manag., 95: 15-18. **IF=3.245**
5. Carpa, R., **Butiuc-Keul, A.**, Lupan, I., Barbu-Tudoran, L., Muntean, V., Dobrotă, C., 2012, Poly-β-hydroxybutyrate accumulation in bacterial consortia from different environments, Can J Microbiol., 58(5): 660-667, DOI: 10.1139/w2012-037. **IF=1.363**
6. Carpa, R., **Butiuc-Keul, A.**, Muntean, V., Dobrotă, C., 2014, Characterization of halophilic bacterial communities in Turda Salt Mine (Romania), Orig Life Evol Biosph., **44(3)**: pp 223-230. DOI 10.1007/s11084-014-9375-4. **IF=1.765**
7. Toth, P, Fiţ, D., Culda, C.A., Carpa, R., **Butiuc-Keul, A.**, Roba, C.A., Roşu, C., 2020, Quality assessment of drinking water from several private wells from Lazuri village (Satu-Mare county, Romania), J Environ Protection and Ecol., 21(1): 106–115. **IF=0.692**

### Indexed ISI papers

1. Garab, G., Istokovics, A., **Butiuc A.L.**, Simidjiev, I., Der, A., 1998, Light-induced ion movements in thylakoid membranes and isolated LHCII, in: Garab, G., (ed.) Photosynthesis: Mechanisms and Effects, Vol. I., Kluwer Acad. Publ., pp. 341-347. The XI-th International Congress on Photosynthesis, Budapest, Hungary.
2. Dobrotă, C., **Butiuc-Keul, A.**, Yamashita, M., Crăciun, C., 2003, Enzymatic activity and ultrastructural aspects of plantlets maintained in shielded magnetic field, Proceedings of the third European Workshop on Exo/astrobiology, ISBN 92-9092-856-5, 437-439.
3. Dobrotă, C., Yamashita, M., Piso, I.M., Crăciun, C., **Butiuc-Keul A.**, 2004, Water loss from the biological structure as the main effect of the low magnetic environment, International Journal of Astrobiology, ISSN 14735504, 50-51.
4. **Butiuc-Keul, A.**, Coste, A., Halmagyi A., Deliu, C., Farago, M., Iliescu, M., Iuoraş, R., 2009, In vitro micropropagation of several grapevine cultivars from Romania, Acta Hort. (ISHS) 812: 129-134.
5. Crăciunaş, C., Coste, A., Farago, M., Iliescu, M., Iuoraş, R., **Butiuc-Keul, A.**, 2009, Genetic stability of several cultivars of grapevine cultivated in vitro, Acta Hort. (ISHS) 812: 515-520.
6. **Butiuc-Keul, A.**, Coste, A., Oltean, B., Crăciunaş, C., Halmagyi, A., Deliu, C., Farago, M., Iliescu, M., Iuoraş, R., 2009, In vitro clonal propagation of several grapevine cultivars, Acta Hort. (ISHS) 843: 151-156.
7. Crăciunaş, C., **Butiuc-Keul, A.**, Coste, A., Oltean, B., Farago, M., Iliescu, M., Iuoraş, R., 2009, Selection of valuable germplasm of grapevine and preservation by in vitro culture, Acta Hort. (ISHS) 843: 145-150.
8. Cristea, V., Deliu, C., Oltean, B., **Butiuc-Keul, A.**, Brummer, A., Albu, C., Radu, G.L., 2009, Soiless culture for pharmaceutical use and biodiversity conservation, Acta Hort. (ISHS) 843: 157-164.

H-Index (WoS/Scopus/GS): 8/9/13

Web of Science ResearcherID: ABC-4036-2020

ORCID: <https://orcid.org/0000-0002-6523-6845>

Google Scholar: <https://scholar.google.com/citations?user=YQip64MAAAAJ&hl=en&oi=ao>

27.09.2022

Assoc. Prof. Dr. Anca Butiuc

