



# Curriculum vitae Europass

### Personal information

Nume / Prenume | Butiuc-Keul Anca-Livia

Adresă(e) | Cluj-Napoca, Mehedinți str., No. 27, ap. 6, 400679 Cluj-Napoca, Romania

Telefon(oane) +04-0264-405300 Mobil: 0742211558

Fax(uri) +04-0264-591906

E-mail(uri) anca.keul@ubbcluj.ro, keulanca@gmail.com

Naţionalitate(-tăţi) | Romanian

Data naşterii | 20.11.1968

Sex | Female

Desired employment / Occupational field

Biology/Biotehnology

Work experience

2003-2014

Occupation or position held | Lecturer

2014-present

Associate professor

Main activities and responsibilities

Taching activity: teaching Biotechnology courses, laboratory work;

coordination of BSc and MSc diploma works

**Research activity**: analysis of intra and interpopulation gentic 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 comunity, molecular identification of bacterial rezistance to antibiotics and biocides; identification of class I integrons and rezistance cassetes in bacteria from soil and water.

**Managerial activity**: 2012-2016-head of department of Molecular Biology and Biotehnology, Faculty of Biology and Geology, 2008-2017-member in faculty board, students coordinator.

Name and address of employer

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

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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 **Research activity**: cloning of plant species, in vitro cultures; analysis of responsibilities genetic stability in preserved plants. **Taching activity**: teaching Plant Hystology and laboratory work; Name and address of employer The Institute of Biological Research, 48 Republicii street, Romania Type of business or sector Scientific research **Education and training** Date 1990-1996 Title of qualification awarded Doctor in biology Principal subjects/occupational Studies regarding in vitro organogenesis of some endangered plants from skills covered Romania Name and type of organisation The Babeş-Bolyai University, Cluj-Napoca, Faculty of Biology and Geology providing education and training /Universitary education and scientific research Level in national or international Level 6 Postuniversitary classification Date 1997-1998 Title of qualification awarded Postgraduate diploma Principal subjects/occupational International Training Course on Molecular Biology skills covered Name and type of organisation Biological Research Center, Szeged, Hungary providing education and training Level in national or international Level 6 Postuniversitary classification Date 23.08-01.09.1998 Title of qualification awarded Certificate of achievement Principal subjects/occupational ESF Summer School on Structure and Dynamics of Photosynthetic skills covered Memmbrane Name and type of organisation Biological research Centre, Josef Attila University, Szeged, Ungaria/Unitate providing education and training de cercetare științifică Level in national or international Level 6 Postuniversitary classification Date 20-22.06.2013 Title of qualification awarded Certificate of achievement Viral vaccines in the medical practice Principal subjects/occupational

skills covered

Name and type of organisation Universitatea de Medicină și Farmacie Iuliu Hațieganu, Cluj-Napoca/Unitate de providing education and training învățământ superior și cercetare științifică

Level in national or international classification

Nivel 6 - Invatamant postuniversitar

Date

15.10-15.12.2016

Title of qualification awarded

Certificate of achievement

Principal subjects/occupational

skills covered

DAAD fellowship

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 Postuniversitary

Date

1995-1996

Title of qualification awarded

MSc diploma

Principal subjects/occupational

Disciplines of the Biology domain: Molecular Biology and genetics,

skills covered Advanced biochemistry,

Name and type of organisation providing education and training

Babeş-Bolyai University, Cluj-Napoca, Faculty of Biology and Geology /Universitary education and scientific research

Level in national or international

classification

Level 6 Postuniversitary

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 /Universitary education and scientific research

Level in national or international classification

Level 5 Universitary education

Date

1994-1995

Title of qualification awarded

Graduate diploma

Principal subjects/occupational skills covered Universitary pedagogic module; disciplines of the didactic domain: pedagogy, methodics and general psychology.

Name and type of organisation

Babeş-Bolyai University, Cluj-Napoca, Faculty of Biology and

Geology/Universitary education and scientific research

Level in national or international

providing education and training

Level 5 Universitary education

classification Personal skills and

competences Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (\*)

| Unders    | tanding | Spea        | Writing    |  |
|-----------|---------|-------------|------------|--|
| Listening | Reading | Spoken      | Spoken     |  |
|           |         | interaction | production |  |

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Language: English

Language: French

Language: German

| C2 | Proficient user     |
|----|---------------------|----|---------------------|----|---------------------|----|---------------------|----|---------------------|
| C2 | Proficient user     | C2 | Proficient user     | В2 | Independent<br>user | В2 | Independent<br>user | B2 | Independent<br>user |
| В1 | Independent<br>user | В1 | Independent<br>user | A2 | Independent<br>user | A2 | Independent<br>user | A2 | Independent<br>user |

<sup>(\*)</sup>Common European Framework of Reference for Languages

Social skills and competences Good capacity o socializing: establishing cooperant relations with coleagues, 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 organisation of laboratory equipment; coordination of a staff's reasearch activity in laboratory, developped through years of research activity

Computer skills and competences Good competence in PC utilization: Microsoft Office: Excel, Word, Power **Point** 

# **Additional information**

Afiliation

- Member in National Society of Celular and Molecular Biology
- Member in Romanian Society of Biochemistry and Molecular Biology
- Member in Romanian Society of Plant Tissue and Organ Cultures
- Member in International Society of Plant Tissue and Organ Cultures

#### Cooperation

- 2003-2004: Long term preservation of several endangered plants from Romanian and Belgium Flora: Arnica montana, Drosera rotundifolia și Lilium martagon. Project of bilateral colaboration with Haute Ecole Charlemagne, Belgia. Coordinator: Lecturer. Dr. Anca Keul.
- 2009-2010: Analysis of expression of several genes involved in Project of bilateral colaboration with branching in plants. University of Pisa, Italia. Coordinator: Reader Dr. Cristina Dobrotă.

# 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 compunds by biotranformation 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 alcaloids 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 characteriyation of in vitro plantlets of *Atropa belladonna* obtinute 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 bz 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 cytogenotoxic effects of some xenobiotics in polluted aquatic ecosystems (partner coordinator). 2006-2008- Grant A CNCSIS 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).

**Participation to scientific meetings**: several **national symposia** of Industrial Microbiology and Biotechnology; Vegetal Cell and Tissue Cultures:

International symposia; IX-th Conference on Grape Genetics and Breeding, iuly, 2006, Udine, Italy: 5 Plant Genomics European Meeting, october 2006, Venice. Italy: International Symposium Acclimatization 3rd Establishment of Micropropagated Plant, september, 2007, Faro, Portugal; 6 European Meeting of Plants Genetics, octomber, 2007, Tenerife, Spain; International Symposium on Soiless Culture and Hydroponics, 28.08.2008, Lima, Peru; International Congress of Mycology, 5-9.08. 2008, Istanbul, Turkie; Third International Meeting on Environmental Biotechnology and Engineering, 21-25.09.2008, Palma de Mallorca, Spain Editorial activity: Editor from 2009 at journal: Extreme Life, Biospeology & Astrobiology, International Journal of the Bioflux Society, Cluj-Napoca, http://www.elba.bioflux.com.ro/board/.

**Reviewer:** Journal "Analele Univ. Oradea – Fascicula Biologie", http://www.bioresearch.ro/bioresearch/revistaen.html; Journal Botanice, Cluj-Napoca, http://contributii botanice.reviste.ubbcluj.ro; Journal Extreme Life, Biospeology & Astrobiology, International Journal of the Clui-Napoca. http://www.elba.bioflux.com.ro/board/: **Bioflux** Society. Journal of Plant Breeding and Crop Science. www.academicjournals.org/JPBCS.

# **Books**:

Butiuc-Keul, A.L. 2006, Molecular markers for plant genetics and biotechnology, Ed. Mega ISBN: 973-7867-61-0.

Halmagyi, A., Butiuc-Keul, A., 2007, Conservation of plant genetic resources, Ed. Todesco, ISBN 978-973-7695-36-9.

# **Book chapters:**

Nagy-Szoke, T., Butiuc-Keul, A, 2016, Hegedus, A., microorganismelor rezistente la antibiotice și a genelor ce conferă rezistență. In: Coman, C. (Ed.) Ghid metodologic de monitorizare a antibioticelor și a rezistentei la antibiotice în mediul înconjurător. Editura Accent, Cluj-Napoca, România, pp. 105-136 / Identification of microorganisms resistant to antibiotics and antibiotic resistance genes. In: Coman C. (Ed). Methodological guide for monitoring antibiotics and antibiotic resistance in the environment. Accent Publisher, Cluj-Napoca, Romania, pp. 277-306.

- 96 papers as main author and coathor.
- -ISI quoted papers: 20.
- -ISI indexed papers: 9.

Courses of Universitary management and Quality management in universities; Course of evaluator of competencies; Course of formative

#### Anex

# **CNCSIS Prices**

**Others** 

- 1. PN-II-RU-PRECISI-2012-6-0755: Physico-chemical and biological studies on water from Aries River (Romania).
- 2. PN-II-RU-PRECISI-2012-6-1287: DNA-based diagnostic tests for Salmonella strains targeting hilA, agfA, spvC and sef genes.
- 3. PN-II-RU-PRECISI-2013-7-3939: Microbiological contamination and resistance genes in biofilms occurring during the drinking water treatment process.
- 4. 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.

| <ol> <li>PN-III-P1-1.1PRECISI-2016-13409: Exploring the role of coliform bacteria in class 1 integron carriage an<br/>biofilm formation during drinking water treatment, Microb. Ecol., 72(4): 773-782.</li> </ol> |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Date: 30.03.2017   | Associate professor Dr. Anca Butiuc-Keul |  |  |  |  |  |
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