

PERSONAL  
INFORMATION

Mihai PUȘCAȘ

📍 str. Republicii nr. 42, 400015 Cluj-Napoca (România)

☎ 00 40 (0)264 59 21 52

✉ [mihai.puscas@ubbcluj.ro](mailto:mihai.puscas@ubbcluj.ro)

<http://www.researcherid.com/rid/C-4689-2012>

<https://scholar.google.ro/citations?user=VaFydREAAAAAJ&hl=ro>

<https://orcid.org/0000-0002-2632-640X>

**Date of birth** 10/10/1974

PROFESSIONAL  
EXPERIENCE

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- 2017-present** **Associate Professor**, Department of Taxonomy and Ecology, Faculty of Biology and Geology, Babeș-Bolyai University in Cluj-Napoca.
- 2009-present** **Senior Researcher (CSII) - curator of CL Herbarium**, Al. Borza Botanical Garden, Babeș-Bolyai University in Cluj-Napoca.
- 2000-2009** **biologist – curator of CL Herbarium**, Al. Borza Botanical Garden, Babeș-Bolyai University in Cluj-Napoca.
- 1997 – 2000 **high school teacher**, *Brassai Samuel* Secondary School, Cluj-Napoca.

## EDUCATION

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- 2016** - **Habilitation to supervise research** , Babeș-Bolyai University in Cluj-Napoca
- 2008** - **Ph.D. in Biology**, Joseph Fourier University in Grenoble - France, (supervisors dr. Philippe CHOLER and dr. Serge AUBERT)  
- **Ph.D. in Biology**, distinction *Summa cum laudae*, Babeș-Bolyai University in Cluj-Napoca (supervisor dr. Vasile CRISTEA)
- 1997 – 1998** **Master of Science**, Babeș-Bolyai University in Cluj-Napoca, Faculty of Biology and Geology, field Biology (Biocoenology)

**1993 – 1997** **B.Sc. in Biology, Babeș-Bolyai University in Cluj-Napoca, Faculty of Biology and Geology**

## ADDITIONAL INFORMATION

### Projects

#### Funded projects

##### 1. project director

- **2015 - BioSAE**, UBB grant to support the excellence in scientific research, (30261/22.01.2015) - *High mountain communities within the European Alpine System: biogeographical and ecological approach*
- **2015-2016 - BioDivMount**: UEFISCDI project - via collaboration programme Romania-France (PN-II-CT-RO-FR-2014-2-0011, no. contract: 773/2014) - *Biogeographical patterns of diversity in high mountain ecosystems in Europe: a multidisciplinary approach*
- **2014-2016 - ODYSSEE**, Proiect UEFISCDI - via collaboration programme Romania-France (PN-II-ID-JRP-RO-FR-2012, nr. contract: 15/01.01.2014) - *Opening new avenues to model the DYNamics of Species aSsemblages by integrating Ecology and Evolution: a case study from the mountain ecosystems of the Alps and the Carpathians*
- **2010-2012** - PD Project CNCSIS (Project Code: PD-405, Contract: 123/29.07.2010): *Integrating phylogeny, phylogeography and distribution modelling in testing alternative biogeographical hypotheses: the alpine complex Carex curvula within the European Alpine System, as a study model*

##### 2. project responsible

- **2008-2011 - Carpatobiodiv** (Project MECT, 32-135/octombrie 2008): *Study of the mountain flora in Romanian Carpathian in order to optimize the genetic and species biodiversity conservation strategies* (responsible for Partner 1, Babeș-Bolyai University in Cluj-Napoca)

##### 3. member in the research group

###### a) European Funded Projects

- **2007-2012- Ecochange** (FP6- 036866): *Challenges in assessing and forecasting biodiversity and ecosystem changes in Europe* (coord. dr. P. Taberlet, J. Fourier University, Grenoble)
- **2004-2006 - IntraBioDiv** (FP6: GOCE-CT-2003-505376): *Tracking surrogates for intraspecific biodiversity: towards efficient selection strategies for the conservation of natural genetic resources using*

*comparative mapping and modelling approaches* (coord. dr. P. Taberlet, J. Fourier University, Grenoble)

- **2000-2002 - GLORIA Europe** (FP5: EVK2-2000-00056): *The European dimension of the Global Observation Research Initiative in Alpine Environments (GLORIA) – a contribution to GTOS* (coord. dr. G. Grabherr, Vienna University)

- **b) other international projects**

- **2002-2004 - Important Plant Areas (IPAs) in Romania** (PIN-MATRA project, funded by Ministry of Foreign Affairs of the Netherlands, coord. Plantlife International)
- **2001-2003 - National Grassland Inventory Project Romania** (PIN-MATRA-00 B.4.21 Project, Ministry of Foreign Affairs of the Netherlands, coord. dr. Peter Veen)
- **2003-2004 - RM/KNIP 03/01 Grant** (funded by Dutch Minister of Agriculture, Nature Management and Fisheries): *Modernization of the “Alexandru Borza” Botanical Garden Seed Bank (Cluj-Napoca, Romania)* (coord. dr. Alexandra ȘUTEU, A. Borza Botanical Garden in Cluj-Napoca)

- **c) national projects**

- **2014-2016 - Project PN-II-PT-PCCA-2013-4-1764** (contract no. 71 din 01/07/2014) – *Innovative biotechnologies for the conservation of endemic and/or endangered Caryophyllaceae in Romania in order to consolidate the Natura 2000 network (TEHNAT)* (director – dr. Victoria Cristea)
- **2013-2014 - Proiect** (POS Mediu Axa 4): *Developing the Management Plan for ROSCI0322 Muntele Șes Natura 2000 site*
- **2013 - Proiect** (POS Mediu Axa 4): *Assessing the state of biodiversity conservation in the site Platoul Vașcău (ROSCI 0200), in order to develop the conservation and sustainable management plan specific to Natura 2000 sites*
- **2012 - Project SINCRON** (POS Mediu Axa 4): *Developing management plans using an electronic online databases with GIS support (sites Pădurea Repedea-Bârnova, Găina-Lucina and Măgura Târgu Ocna)*
- **2010 - Project CONSHABCAIAN** (POS Mediu Axa 4, ctr. 82449/24 nov. 2009): *Evaluating the conservation status of the habitats of community interest in ROSCI0017 - Caian in order to develop a conservation and sustainable management plan for Natura 2000 sites specific*
- **2008-2010 - Project PN II IDEI cod CNCSIS ID\_2272/2009: The action of Allium plant extract against the germination and growth of some phytopathogenic fungi**, coord. dr. Marcel Pârnu, Babeș-Bolyai University in Cluj-Napoca
- **2007-2010 - CONEXSITVARPER** (Project MECT, nr. 31-008/18.09.2007): *Consolidating the biodiversity by ex situ*

*conservation and the assessment of somaclonal variability by molecular techniques of genomic analysis of endemic or endangered taxa from Natura 2000 sites* (coord. dr. Victoria Cristea, A. Borza Botanical Garden in Cluj-Napoca)

- **2007-2010 - CONBIODIV** (Project MECT nr. 31-015/18.09.2007) *The study of spruce and fir forest biodiversity in Natura 2000 protected areas through modern, multidisciplinary methods* (coord. dr. Sorina Fărcaș, Institute of Biological Research in Cluj-Napoca)
- **2007-2010 - NARDUS** (Project MECT nr. 31-033/18.09.2007): *Inventory of natural grasslands with high biodiversity in Romania in order to establish the scientific management measures for their conservation* (coord. dr. Jenică Hanganu, National Research Institute “Delta Dunării” Tulcea)
- **2000-2002 - Grant ANSTI - MEC COD B16/2000; A18/2001: Study on some endemic, rare and vulnerable Plant Species in Gilău-Muntele Mare Mountains** (coord. dr. Vasile Cristea, Babeș-Bolyai University in Cluj-Napoca)
- **2000 - Biodiversity Conservation Management Project in Romania - Piatra Craiului National Park - biological inventory**

## Publications

- 42 published papers (24 ISI *Web of Science*) and collaboration to 3 books  
 - 1921 citations in Google Scholar; h-index = 15

## Selected publications

Geremia RA, **Pușcaș M**, Zinger L, Bonneville J-M, Choler P, 2016, Contrasting microbial biogeographical patterns between anthropogenic subalpine grasslands and natural alpine grasslands. *The New Phytologist*, **209** (3), 1196-207, 10.1111/nph.13690. **(IF 7.43)**

Taberlet P, Zimmermann NE, Englisch T, Tribsch A, Holderegger R, Alvarez N, Niklfeld H, Coldea G, Mirek Z, Moilanen A, Ahlmer W, Marsan PA, Bona E, Bovio M, Choler P, Cieslak E, Colli L, Cristea V, Dalmas J-P, Frajman B, Garraud L, Gaudeul M, Gielly L, Gutermann W, Jogan N, Kagalo AA, Korbecka G, Kupfer P, Lequette B, Letz DR, Manel S, Mansion G, Marhold K, Martini F, Negrini R, Nino F, Paun O, Pellecchia M, Perico G, Piekos-Mirkowa H, Prosser F, **Pușcaș M**, Ronikier M, Scheuerer M, Schneeweiss GM, Schonswetter P, Schrott-Ehrendorfer L, Schupfer F, Selvaggi A, Steinmann K, Thiel-Egenter C, van Loo M, Winkler M, Wohlgemuth T, Wraber T, Gugerli F, **IntraBioDiv Consortium**, 2012, Genetic diversity in widespread species is not congruent with species richness in alpine plant communities, *Ecology Letters*, **15**, 1439-1448. **(IF 10.689)**

Pauli H, Gottfried M, Dullinger S, Abdaladze O, Akhalkatsi M, Alonso, JLB, Coldea G, Dick J, Erschbamer B, Calzado RF, Ghosn D, Holten JI, Kanka

- R, Kazakis G, Kollar J, Larsson P, Moiseev P, Moiseev D, Molau U, Mesa JM, Nagy L, Pelino G, **Pușcaș M**, Rossi G, Stanisci A, Syverhuset AO, Theurillat JP, Tomaselli M, Unterluggauer P, Villar L, Vittoz P, Grabherr G (2012) Recent plant diversity changes on Europe's mountain summits, *Science*, **336**, 353-355. **(IF 37.205)**
- Gottfried M, Pauli H, Futschik A, Akhalkatsi M, Barancok P, Alonso JLB, Coldea G, Dick J, Erschbamer B, Calzado MRF, Kazakis G, Krajci J, Larsson P, Mallaun M, Michelsen O, Moiseev D, Moiseev P, Molau U, Merzouki A, Nagy L, Nakhutsrishvili G, Pedersen B, Pelino G, **Pușcaș M**, Rossi G, Stanisci A, Theurillat JP, Tomaselli M, Villar L, Vittoz P, Vogiatzakis I, Grabherr G (2012) Continent-wide response of mountain vegetation to climate change, *Nature Climate Change*, **2**, 111-115. **(IF 19.304)**
- Pușcaș M**, Choler P (2012) A biogeographic delineation of the European Alpine System based on a cluster analysis of *Carex curvula*-dominated grasslands, *Flora*, **207**, 168– 178. **(IF 1.365)**
- Engler R, Randin CF, Thuiller W, Dullinger S, Zimmermann NE, Araujo MB, Pearman PB, Le Lay G, Piedallu C, Albert CH, Choler P, Coldea G, De Lamo X, Dirnbock T, Gegout J-C, Gomez-Garcia D, Grytnes J-A, Heegaard E, Hoistad F, Nogues-Bravo D, Normand S, **Pușcaș M**, Sebastia M-T, Stanisci A, Theurillat J-P, Trivedi MR, Vittoz P, Guisan A (2011) 21st century climate change threatens mountain flora unequally across Europe. *Global Change Biology*, **17** (7), 2330-2341 **(IF 8.997)**
- Coldea G, Stoica A-I, **Pușcaș M**, Ursu T, Oprea A, The IntraBioDiv Consortium (2009) Alpine–subalpine species richness of the Romanian Carpathians and the current conservation status of rare species. *Biodiversity and Conservation* **18**, 1441–1458. **(IF 2.828)**
- Pușcaș M**, Taberlet P, Choler P (2008) No positive correlation between species and genetic diversity in European alpine grasslands dominated by *Carex curvula*. *Diversity and Distributions* **14** (5), 852-861. **(IF 4.830)**
- Pușcaș M**, Choler P, Tribsch A, Gielly L, Rioux D, Gaudeul M, Taberlet P (2008) Post-glacial history of the dominant alpine sedge *Carex curvula* in the European Alpine System inferred from nuclear and chloroplast markers. *Molecular Ecology* **17** (10), 2417–2429. **(IF 6.131)**

#### Editorial activity

- *Associate Editor* for **Biologia (Section Botany)** - ISSN: 0006-308, **IF: 0.696**
- *Guest Editor* for **Plant Systematics and Evolution** - ISSN: 0378-2697, **IF: 1.452**

#### Conferences

##### a) invited conferences/keynote speaker

##### Invited conference

- **Pușcaș M**, L'intégration de la diversité biologique à différents niveaux et échelles: l'exemple des communautés alpines en Europe, in: *Écologie des communautés végétales*. Conference 25-27 March 2015 in Grenoble, France.

**Keynote speaker**

- Coldea G, Pușcaș M, The diversity of the alpine-subalpine flora of the South-Eeastern Carpathians and the conservation action for the vulnerable and endangered floristic gene pool, în: Swiss Federal Research Institute WSL (eds.) *Biodiversity Conservation – From Genes to Habitats*. Conference 23-24 November 2006 in Davos, Switzerland.

**b) member of the organising committees of international conferences and workshops**

- *Biogeography of the Carpathians: Evolution of Biodiversity in a Spatiotemporal Context, The First Interdisciplinary Symposium*, Kraków (Poland), September 26–28, 2013.
- *Floristic patterns at different organisation and distribution levels*, Cluj-Napoca, May 16–18, 2014.
- *International Workshop: Two days with DNA metabarcoding in Cluj-Napoca — Romania*, Cluj-Napoca, May 19–20, 2015.
- *Biogeography of the Carpathians: Ecological and evolutionary facets of biodiversity, The Second Interdisciplinary Symposium*, 28-30 September 2017, Cluj-Napoca, Romania
- *International Workshop: Seed Conservation training course*, 10th – 13th July 2017, Cluj-Napoca, Romania

**c) 73 participations in national and international conferences (2000-2018)**

Cluj-Napoca,  
10.01.2019