

INFORMAȚII
PERSONALE

Mihai PUȘCAȘ

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

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EXPERIENȚA
PROFESIONALĂ

-
- 2021-prezent** **Prorector**, Administrație, patrimoniu, relația cu senatul
- 2017-prezent** **Conferențiar**, Departamentul de Taxonomie și Ecologie, Facultatea de Biologie și Geologie, Universitatea Babeș-Bolyai din Cluj-Napoca
- 2018-prezent** **Director**, Grădina Botanică Al. Borza, Universitatea Babeș-Bolyai din Cluj-Napoca
- 2009- prezent** **Cercetător Științific II (CSII)** - curator al CL Herbarium, Grădina Botanică Al. Borza, Universitatea Babeș-Bolyai din Cluj-Napoca
- 2000-2009** **biolog – curator al CL Herbarium, Grădina Botanică Al. Borza, Universitatea Babeș-Bolyai**
- 1997 – 2000 **Profesor titular de liceu**, Liceul *Brassai Samuel*, Cluj-Napoca.

EDUCAȚIE ȘI
FORMARE

-
- 2016** - **Abilitare conducere doctorate**, Universitatea Babeș-Bolyai
- 2008** - **Doctor în Biologie**, Université Joseph Fourier Grenoble (actuala Université Grenoble Alpes) - France
- **Doctor în Biologie**, distincție *Summa cum laudae*, Universitatea Babeș-Bolyai

1997 – 1998 master Biologie (Biocenologie)
 Universitatea Babeș-Bolyai, Cluj-Napoca, Facultatea de Biologie și Geologie

1993 – 1997 Licențiat in Biologie, specializarea Biologie,
 Universitatea Babeș-Bolyai, Cluj-Napoca, Facultatea de Biologie și Geologie

COMPETENTE
 PERSONALE

Competențe de comunicare

Limba(i) maternă(e) română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
franceză	C2	C2	C2	C2	C1
engleză	B1	C1	B2	B2	B1

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat

Cadrul european comun de referință pentru limbi străine

**Competențe
organizaționale/manageriale**

Conducere de proiecte în calitate de director/responsabil de proiect

1. Director de proiect

- **2015-2016 - BioDivMount:** UEFISCDI proiect - 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 Proiect CNCSIS** (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. Responsabil de proiect**Proiecte naționale**

- **2008-2011 - Carpatobiodiv** (MECT, 32-135/octombrie 2008): *Study of the mountain flora in Romanian Carpathian in order to optimize the genetic and species biodiversity conservation strategies* (responsabil pentru Partener 1, Universitatea Babeș-Bolyai)

Proiecte internaționale

- 2019-2021 - **CONSERVING THE ENDEMIC FLORA OF THE CARPATHIAN REGION** (Project granted by ROYAL BOTANIC GARDENS, KEW – UK, nr 36244/12.12.2018, responsabil național pentru UBB)

3. Responsabil de activitate în cadrul proiectelor

Activity 8. Training – pentru 23 parteneri (instituții) din 15 țări europene, în cadrul **Proiectului European Cadru - ECOCHANGE** (FP6- 036866): *Challenges in assessing and forecasting biodiversity and ecosystem changes in Europe* (coord. dr. P. Taberlet, Universitatea J. Fourier, Grenoble) - 2007-2012

Head of the target region Eastern Carpathians – în cadrul proiectului internațional GLORIA (The Global Observation Research Initiative in Alpine Environments, <https://www.gloria.ac.at/>) – 2014 - prezent

- Competențe informatice**
- GIS (Certificat de absolvire ESRI ROMÂNIA - ArcGIS Desktop I – Getting Started with GIS)
 - Microsoft Office (Word, Excel, Power Point), baze de date (Microsoft Access), prelucrări statistice în ecologie (ADE 4, Juice, R-debutant), editarea și interpretarea profilelor genetice (BioEdit, Genographer, MEGA, GeneMapper, SeqScape), prelucrare date genetice (Phylip, PopGen, AFLPsurv, TreeCon, FreeTree, Arlequin, R), prelucrare imagini (Photoshop)

INFORMATII SUPLIMENTARE

- Publicații**
- 45 articole publicate (28 ISI *Web of Science*), colaborarea la 3 cărți
 - 2950 citări; h-index = 17 (Google Scholar)
 - 4 articole *Highly Cited* în *Web of Science*

Publicații Selecționate

- 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)**
- Hurdu B-I, Escalante T, **Pușcaș M**, Novikoff A, Bartha L, Zimmermann NE, 2016, Exploring the different facets of plant endemism in the South-Eastern Carpathians: a manifold approach for the determination of biotic elements, centres and areas of endemism. *Biological Journal of the Linnean Society*, **119** (3), 649-672, 10.1111/bij.12902, **(Impact Factor: 1.984)**.
- 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, Pellicchia 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)

Proiecte de cercetare
(membru în echipa de
implementare)

a) Proiecte Europene

- **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) Alte Proiecte Internaționale

- **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) Proiecte Naționale

- **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)
- **2008-2010** - Project PN II IDEI cod CNCISIS ID_2272/2009: *The action of Allium plant extract against the germination and growth of some phytopathogenic fungi*, coord. dr. Marcel Pârvu, 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*

Participarea la realizarea a **4 proiecte de tip POS Mediu (2010-2014)**

Activitate Editorială

- *Associate Editor* pentru **Biologia (Section Botany)** - ISSN: 0006-308
- *Guest Editor* pentru **Plant Systematics and Evolution** - ISSN: 0378-2697
- *Referent* pentru *Molecular Ecology Resources*, *Botanical Journal of the Linnean Society*; *Ecological Complexity*; *Plant Systematics and Evolution*, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*

Conferințe

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) membru al comitetelor de organizare a conferințelor și workshopurilor internaționale

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

Activitate de
Botanizare/Floristică

EXPERIENȚĂ DE TEREN

Câmpia Transilvaniei, Carpații Românești (M-ții Retezatului, M-ții Țarcu, M-ții Șureanu, M-ții Parângului, M-ții Latoriței, M-ții Făgărașului, M-ții Iezer-Păpușa, M-ții Piatra Craiului, Masivul Postăvaru, M-ții Bucegi, M-ții Ciucaș, M-ții Bârsei, M-ții Vrancei, M-ții Ciucului, M-ții Harghita, M-ții Hășmaș, Masivul Ceahlău, Masivul Giupalău, Masivul Rarău, M-ții Rodnei, M-ții Maramureșului, M-ții Călimani, M-ții Bistriței, Obcina Mare, M-ții Bihorului, M-ții Vlădeasa, M-ții Muntele Mare, M-ții Trascău, M-ții Pădurea Craiului, M-ții Plopiș, M-ții Codru-Moma 2000-2013), **Carpații de Vest** (Tatra - Slovacia, Polonia), **Alpi** (Alpii Estici, Alpii Centrali, Alpii de Sud-Vest, Alpii Maritimi: Austria, Slovenia, Elveția, Italia, Franța), **Masivul Central Francez** (Franța), **Pirinei** (Pirineii Orientali, Pirineii Centrali, Pirineii Occidentali: Franța, Spania, Andora), **Arctica** (Svalbard), **Sudeți** (Cehia), **Stara Planina** (Bulgaria), **Pirin** (Bulgaria), **Rila** (Bulgaria).

ACTIVITATE DE STUDIU ȘI EXPERTIZĂ A FLOREI

- **peste 1200 coli de herbar** cu plante recoltate din România, Grecia, Franța, Spania, Elveția, Italia, Belgia, Austria, Svalbard, Slovacia, Polonia, Andorra, Cehia, Bulgaria depuse în herbarul Universității Babeș-Bolyai din Cluj-Napoca (CL)

Cluj-Napoca,
14.05.2021