

CURRICULUM VITAE

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

Personal details

Born: 10 October 1974

Cugir, dep. of Alba

EDUCATION

2008 - **Ph.D. in Biology**, Joseph Fourier Univeristy in Grenoble - France,
(supervisors dr. Philippe CHOLER și 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

1989-1993 - **Teoretic Secondary School** in Cugir, (dep. of Alba), field Mathematics-
Physics

PROFESSIONAL ACTIVITY

2009-present - **Senior Researcher (CSII)**, Al. Borza Botanical Garden, Babeș-Bolyai
University in Cluj-Napoca.

2000-2009 - **biologist**, Al. Borza Botanical Garden, Babeș-Bolyai University in Cluj-
Napoca.

1997-2000 - **high school teacher**, *Brassai Samuel* Secondary School, Cluj-Napoca.

FELLOWSHIPS

- **2003** (4 months), **2005** (5 months), **2006** (6 months), **2007** (7 months), **Laboratoire
d'Ecologie Alpine (LECA)**, J. Fourier University (Grenoble, France) - PhD grant of the

France Embassy in Romania; training in alpine ecology, phylogeography, molecular techniques (AFLP, DNA sequencing), statistics (supervised by de dr. **Philippe CHOLER**, dr. **Pierre TABERLET**, dr. **Ludovic GIELLY**)

- **2012** (3 months) - **Laboratoire d'Ecologie Alpine (LECA)**, J. Fourier University (Grenoble, France) - Post Doc funded by UEFISCDI; training in techniques of species distribution modelling (supervised by dr. **Wilfried THUILLER**)

- **2014** (1 month), **2015** (1 month), **2016** (1 month) - **Laboratoire d'Ecologie Alpine (LECA)**, J. Fourier University (Grenoble, France) - fellowships funded by a UEFISCDI project; training in techniques of eDNA extraction, PCRs for metabarcoding, ddRADseq (collaboration with dr. **Pierre TABERLET**).

RESEARCH ACTIVITY

Visibility of the scientific activity

- 34 published papers (17 ISI *Web of Science*) and collaboration to 3 books
- 958 citations in Google Scholar; Cumulative impact factor = 104.05; h-index = 10

Research interest

alpine biogeography and ecology, phylogeography, molecular taxonomy, vegetation dynamics and monitoring, conservation biology, herbaceous alpine ecosystems.

International collaborations

dr. **Philippe CHOLER**, dr. **Pierre TABERLET**, dr. **Roberto GEREMIA**, dr. **Wilfried THUILLER**, dr. **Eric COISSAC** (University of Grenoble, France), dr. **Michał RONIQUIER** (Wladyslaw Szafer Institute of Botany, Kraków, Poland), dr. **Patrik MRÁZ** (Charles University in Prague, Czech Republic), dr. **Andreas TRIBSCH** (Univ. Salzburg, Austria), dr. **Antoine GUISAN** (Univ. Lausanne, Switzerland), dr. **Harald PAULI** (Univ. Vienna, Austria), dr. **Peter SCHÖNSWETTER** (Univ. Innsbruck, Austria), dr. **Niklaus E. ZIMMERMANN** (WSL Birmensdorf, Switzerland).

Funded projects

1. project director

- **2015 - BioSAE**, UBB grant to support the excellence in scientific research, (30261/22.01.2015) - *High mountain communities altitude 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 **D**ynamics of **S**pecies **a**ssemblages 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, Babeş-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 ŞUTEU, 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 Şes Natura 2000 site*
- **2013** - **Proiect** (POS Mediu Axa 4): *Assessing the state of biodiversity conservation in the site Platoul Vaşcău (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 Pârvu, Babeş-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 Fărcaş, 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, Babeş-Bolyai University in Cluj-Napoca)
- **2000** - *Biodiversity Conservation Management Project in Romania - Piatra Craiului National Park - biological inventory*

Participating at conferences

a) invited conferences/keynote speaker

Invited conference

- **Puşcaş 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, **Puşcaş M**, The diversity of the alpine-subalpine flora of the South-Eastern 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) 59 participations in national and international conferences (2000-2016)

Refereeing manuscripts for national and international journals

1. national journals

- *Contribuții Botanice*

2. International Journals

- *Molecular Ecology Resources, Botanical Journal of the Linnean Society, Ecological Complexity, Plant Systematics and Evolution*

Conference and workshop organizer

- *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, Mai 16–18, 2014.*

- *International Workshop: Two days with DNA metabarcoding in Cluj-Napoca — Romania, Cluj-Napoca, Mai 19–20, 2015.*

Cluj-Napoca, 23.05.2016

CSII dr. Mihai Pușcaș

