

PUBLICATION LIST

dr. Mihai PUȘCAȘ

a) Publications in peer-reviewed journals (*Web of Science*)

- 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 (**Impact Factor: 7.672**).
- Jimenez-Mejias P, Hilpold A, Frajman B, **Pușcaș M**, Koop-Man J, Mesterhazy A, Grulich V, Lye KA, Martin-Bravo S, 2014, *Carex cespitosa*: reappraisal of its distribution in Europe, *Willdenowia*, **44**, 327-343 (**Impact Factor: 0.721**).
- 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 (**Impact Factor: 17.949**).
- Pușcaș M** (2012) Distribution and Phytocoenotic Context of *Kobresia simpliciuscula* (Wahlenb.) Mack. in South-Eastern Carpathians, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **40** (1), 29-34 (**Impact Factor: 0.547**).
- Pauli H, Gottfried M, Dullinger S, Abdaladze O, Akhalkatsi M, Alonso, JLB, Coldea G, Dick J, Erschbamer B, Calzado RF, Ghosn D, Holten JJ, 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 (**Impact Factor: 33.611**).
- 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 (**Impact Factor: 14.547**).
- Pachschwöll C, **Pușcaș M**, Schönswetter P (2011) Distribution of *Doronicum clusii* and *D. stiriicum* (Asteraceae) in the Alps and Carpathians, *Biologia*, **66** (6), 977-987, (**Impact Factor: 0.827**).
- Gafta D, Roman A, **Pușcaș M**, Șuteu A (2012) Foristic heterogeneity of *Festuca airoides*-dominated grasslands in the Romanian Carpathians, *Plant Biosystems*, **146** (3), 603-613 (**Impact Factor: 1.92**).
- 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 (**Impact Factor: 1.472**).
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- Gegout J-C, Gomez-Garcia D, Grytnes J-A, Heegaard E, Hoistad F, Nogues-Bravo D, Normand S, **Puşcaş 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 doi: 10.1111/j.1365-2486.2010.02393.x (**Impact Factor: 8.044**).
- Şuteu D, **Puşcaş M**, Băcilă I, Coste A, Filipaş L., Stoica A-I, Hurdu B-I, Ursu T, Coldea G (2011) Does *Primula intricata* Gren. et Godr. merit species rank? A taxonomic revision based on nrDNA, cpDNA and AFLP data, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **39** (1), 24-29 (**Impact Factor: 0.547**).
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- Pârvu M, Pârvu AE, Crăciun C, Barbu-Tudoran L, **Puşcaş M** (2009) Ultrastructure and development of *Anthracoidea Elynae* ustilospores. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **37** (1), 41-44 (**Impact Factor: 0.547**).
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- Puşcaş 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 (**Impact Factor: 6.122**).
- Puşcaş 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 (**Impact Factor: 6.494**).
- Puşcaş M**, Gafta D, Cristea V (2005) L'analyse éco-coenotique des prairies édifiées par *Carex curvula* All. des Carpates roumaines. *Acta Botanica Gallica* **152**, 497-506 (**Impact Factor: 0.479**).

*to the following publications I am co-author as member of **IntraBioDiv Consortium** (http://www.wsl.ch/fe/biodiversitaet/projekte/intraspecific_biodiversity/Consortium)

- *Alvarez N, Manel S, Schmitt T, **IntraBioDiv Consortium** (2012) Contrasting diffusion of Quaternary gene pools across Europe: The case of the arctic-alpine *Gentiana nivalis* L. (Gentianaceae), *Flora* **207**, 408-413.
- *Manel S, Gugerli F, Thuiller W, Alvarez N, Legendre P, Holderegger R, Gielly L, Taberlet P, **IntraBioDiv Consortium** (2012) Broad-scale adaptive genetic variation in alpine plants is driven by temperature and precipitation, *Molecular Ecology* **21**, 3729-3738.
- *Meirmans PG, Goudet J, Gaggiotti OE, **IntraBioDiv Consortium** (2011) Ecology and life history affect different aspects of the population structure of 27 high-alpine plants. *Molecular Ecology* **20**, 3144-3155.
- *Thiel-Egenter C, Alvarez N, Holderegger R, Tribsch A, Englisch T, Wohlgemuth T, Colli L, Gaudeul M, Gielly L, Jogan N, Linder HP, Negrini R, Niklfeld H, Pellicchia M, Rioux D, Schonswetter P, Taberlet P, van Loo M, Winkler M, Gugerli F, **IntraBioDiv Consortium** (2011) Break zones in the distributions of alleles and species in alpine plants. *Journal of Biogeography* **38**, 772-782..
- *Winkler M, Tribsch A, Paun O, Englisch T, Schonswetter P, **IntraBioDiv Consortium** (2011) Pleistocene distribution range shifts were accompanied by breeding system divergence within *Hornungia alpina* (Brassicaceae) in the Alps. *Molecular Phylogenetics and Evolution* **54**, 571-582..

- *Thiel-Egenter C, Holderegger R, Brodbeck S, **IntraBioDiv Consortium**, Gugerli F (2009) Concordant genetic breaks, identified by combining clustering and tessellation methods, in two co-distributed alpine plant species. *Molecular Ecology* **18** (21), 4495-4507.
- *Alvarez N, Thiel-Egenter C, Tribsch A, Holderegger R, Manel S, Schonswetter P, Taberlet P, Brodbeck S, Gaudeul M, Gielly L, Kupfer P, Mansion G, Negrini R, Paun O, Pellecchia M, Rioux D, Schupfer F, Van Loo M, Winkler M, Gugerli F, **IntraBioDiv Consortium** (2009) History or ecology? Substrate type as a major driver of patial genetic structure in Alpine plants. *Ecology Letters*, **12**, 632-640.
- *Thiel-Egenter C, Gugerli F, Alvarez N, Brodebeck S, Cieslak E, Colli L, Englisch T, Gaudeul M, Gielly L, Korbecka G, Negrini R, Patrini M, Paun O, Pellecchia M, Rioux D, Ronikier M, Schönswetter P, Schüpfer F, Taberlet P, Tribsch A, van Loo M, Winkler M, Holderegger R, **IntraBioDiv Consortium** (2009) Effects of species traits on the genetic diversity of high-mountain plants: a multi-species study across the Alps and the Carpathians. *Global Ecology and Biogeography*, **18**, 78-87.
- *Gugerli F, Englisch T, Niklfeld H, Tribsch A, Mirek Z, Ronikier M, Zimmermann NE Holderegger R, Taberlet P, **IntraBioDiv Consortium** (2008) Relationships among levels of biodiversity and the relevance of intraspecific diversity in conservation - a project synopsis. *Perspectives in Plant Ecology Evolution and Systematics* **10**, 259-281.
- *Alvarez N, Arrigo N, **IntraBioDiv Consortium** (2008) SIMIL: an R (CRAN) scripts collection for computing genetic structure similarities based on STRUCTURE 2 outputs. *Molecular Ecology Resources*, **8**, 757-762.
- *Păun O, Schonswetter P, Winkler M, Tribsch A, **IntraBioDiv Consortium** (2008) Historical divergence vs. contemporary gene flow: evolutionary history of the calcicole *Ranunculus alpestris* group (Ranunculaceae) in the European Alps and the Carpathians. *Molecular Ecology*, **17**, 4263-4275.
- *Ehrich D, Gaudeul M, Assefa A, Koch MA, Mummenhoff K, Nemomissa S, **IntraBioDiv Consortium**, Brochmann C (2007) Genetic consequences of Pleistocene range shifts: contrast between the Arctic, the Alps and the East African mountains. *Molecular Ecology* **16**, 2542-2559.
- *Manel S, Berthoud F, Bellemain E, Gaudeul M, Luikart G, Swenson JE, Waits LP, Taberlet P, **IntraBioDiv Consortium** (2007) A new individual-based spatial approach for identifying genetic discontinuities in natural populations. *Molecular Ecology*, **16**, 2031-2043.
- *Mráz P, Gaudeul M, Rioux D, Gielly L, Choler P, Taberlet P, **IntraBioDiv Consortium** (2007) Genetic structure of *Hypochaeris uniflora* (Asteraceae) suggests vicariance in the Carpathians and rapid post-glacial colonization of the Alps from an eastern Alpine refugium. *Journal of Biogeography*, **34**, 2100–2114.

b) papers in ISI Thomson Proceedings

- Cristea V, **Puşcaş M**, Miclăuş M, Deliu C (2006) Conservative micropropagation of some endemic or rare species from the *Dianthus* genus. *Acta Horticulturae*, **725**, 357-364.
- Hentea S, Şuteu A, Csergo AM, **Puşcaş M**, Cristea V, Mocan C, Constantinescu M, Micle F (2004) Threatened plant collections in „Alexandru Borza” Botanical Garden (Romania) for reserch and education purposes. *Scripta Botanica Belgica*, **29**, 121-129.
- Pârvu M, Pârvu AE, Vlase L, Rosca-Casian O, Pârvu O, **Puşcaş M** (2011) Allicin and alliin content and antifungal activity of *Allium senescens* L. ssp. *montanum* (F. W. Schmidt) Holub ethanol extract, *Journal of Medicinal Plants Research*, **5** (29), 6544-6549.

c) papers in BDI indexed journals (besides Science Citation Index Expanded - SCI-EXPANDED)

- Bartók A, **Puşcaş M** (2015) Gemenea, an important toponym for the botanical explorations of the Rodna Mountains (Eastern Carpathians) – found after a century, *Contribuții Botanice*, **50**, 93-104.
- Hurdu B, **Puşcaş M**, Turtureanu P, Coldea G, Zimmermann N (2012) Patterns of plant endemism in the Romanian Carpathians (South-Eastern Carpathians), *Contribuții Botanice*, **47**, 25-38.
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- Pârvu M, Roşca-Casian O, **Puşcaş M**, Groza G (2009) Antifungal activity of *Allium fistulosum* L., *Contribuții Botanice* **44**, 125-129.
- Filipaş L, **Puşcaş M**, Ursu T, Stoica I-A, Coldea G (2009) On the occurrence of the *Poa granitica* group in the Romanian Carpathians, *Contribuții Botanice* **44**, 13-19.
- Frink JP, **Puşcaş M**, Cristea V (2006) New sites for *Stipa dasyphylla* (Lindem.) Trautv. in Transylvania with emphasis on the species distribution in Romania. *Contribuții Botanice* **40**, 15-24.
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- Puşcaş M**, Bărbos M, Başnou C, Frink J, Cristea V (2003) *Plantago sempervirens* Crantz, o specie nouă pentru flora României. *Contribuții Botanice* **38** (1), 7-12.
- Hentea S, Goia I, Csergo AM, Şuteu A, **Puşcaş M**, Crişan F, Cristea V (2002) Eco-coenotic study of the *Aquilegia nigricans* Baumg. ssp. *subscaposa* (Borb.) Soo taxon from the Gilău – Muntele Mare Mountains (Apuseni Mountains). *Contribuții Botanice* **37**, 49-62.
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- Coldea G, Cristea V, **Puşcaş M** (2010) Les prairies mesoxerophiles de l'alliance *Cirsio-Brachypodium* Hadac et Klika ex Klika 1951 de Roumanie, *Braun-Blanquetia* **46**, 191-196.

d) publications in other journals

- Coldea G, Boşcaiu V, **Puşcaş M**, Sidoroff ME (2009) Changes in the structure of alpine plant communities from the Rodna Mountains between 2001 and 2008 (GLORIA Europe Project), *Romanian Biological Sciences* **7** (1-4), 61-68.

e) book or book chapters at national publishers

- Cristea V, Başnou C, **Puşcaş M**, 2009, Flora și vegetația, în: Mârza I, coord., *Monografia comunei Țaga*, Tipografia Delroti, Cluj-Napoca, pg. 82-91.

Sârbu A, Sârbu I, Oprea A, Negrean G, Cristea V, Coldea G, Cristurean I, Popescu G, Oroian S, Tănase C, Bartok K, Gafta D, Anastasiu P, Crișan F, Costache I, Goia I, Marușca T, Oțel V, Sămărghițan M, Hentea S, Pascale G, Răduțoiu D, Baz A, Boruz V, **Pușcaș M**, Hirițiu M, Stan I, Frink J (2007) *Arii Speciale pentru Protecția și Conservarea Plantelor în România*, Editura Victor B. Victor, București, 396 pg., ISBN 978-973-88181-0-1

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Cluj-Napoca, 23.05.2016

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