Alexey Shipunov, Ph.D.

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Univerity Museum
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A researcher, information scientist, educator, and a leader.
Focused on bridging traditional botanical research with modern technology.
Skills include project management, data analysis, mentoring, securing financial opportunities and collections management.

PROFESSIONAL EXPERIENCE

Kyoto University, *Visiting Professor* **2019–present**
Work on the plant phylogeny and evolution projects

Minot State University, *Assistant Professor*, *Associate Professor* **2010–2019**
Completed the flora of North Dakota research • Curated, cataloged, and expanded two-fold University herbarium collection • Built and restructured local greenhouse to imitate a tropical rainforest and conservatory for rare plant species • With city and university, developed plans on flood recovery and tree conservation • Developed courses and textbooks on plant biology, data analysis, concepts of biology, and biogeography

Marine Biological Laboratory, Woods Hole, *Associate Researcher*, *Bioinformatist* **2008–2010**
Successfully bridged Encyclopedia of Life tools and biological taxonomy

University of Idaho, *Postdoctoral Fellow* **2006–2008**
Strengthened the "novel weapons" hypothesis on the diversity of endophytic fungi in *Centaurea stoebe*

Institute of Information Technologies, Moscow, *Lecturer* **2004–2005**
Improved effectiveness of IT Adult Secondary Education • Developed education plans for sixteen new courses

Kew Gardens, London, *Postdoctoral Fellow* **2002–2003**
Applied new synthetic approach to evolution and temporal diversification of Eurasian orchids

Moscow State University, Higher Plants Department, *Lecturer* **1998–2002**
Developed plant biology course and textbook

EDUCATION

Moscow State University, Higher Plants, **Ph. D.**, 1998 • Plantains (genera *Plantago* L. and *Psyllium* Mill., Plantaginaceae) of European Russia and adjacent areas **Moscow State University**, Higher Plants, **M. Sc.**, *magna cum laude*, 1990 • Knotweeds (*Polygonum aviculare* L. and allies) of Central Russia

AWARDS

Research grant, North Dakota INBRE (2014) • Research grant, Prairie Biotic Research, Inc. (2013) • Research grant from the University of North Dakota (2012) • Research grant, Great Plains Center for Community Research and Service (2011) • Research grant, Norwegian Research Council (2006) • NSF/IGER research grant for the Center for Research on Invasive Species & Small Populations, CRISSP (2005) • Special Andrei Sakharov diploma (2005) • Research grant, Royal Society, UK (2003) • Excellence Award in Teaching Biology (1995)

AUTHORED PUBLIC DATABASES AND RESOURCES

Atlas to the Trees and Shrubs of Minot State University	http://www.natureatlas.org/plants/minot/
Biological Journals	http://ashipunov.info/journals/
Flora of North Dakota: Checklist	http://ashipunov.info/shipunov/fnddb/
Hemihomonyms Database	http://ashipunov.info/shipunov/os/homonyms/
Introduction to Botany and other textbooks	http://ashipunov.me/shipunov/school/textbooks.htm
North Dakota Ethnobotany Database	http://ashipunov.info/shipunov/fnddb2/nd_eth.htm
Plant Images in Public Domain	http://ashipunov.me/shipunov/ph/
Systema Angiospermarum	http://ashipunov.info/shipunov/ang/ang-en.htm
Systema Naturae	http://ashipunov.info/shipunov/os/os-en.htm
R *books and software*	http://ashipunov.info/shipunov/software/r/r-en.htm
TEX *software*	https://ctan.org/author/shipunov/
My Github	https://github.com/ashipunov/
My Youtube channel	https://www.youtube.com/channel/UCxPchT-Zp8ADvsVR9lHCRmA

PUBLICATIONS

221 publications in 1989–2020, including 74 peer-reviewed articles and 17 books (please see my full CV for the complete list). Most cited peer-reviewed articles are:

Shipunov A., Carr S., Furniss S., Pay K., Pirani J.R. 2020. First phylogeny of Bitterbush Family, Picramniaceae (Picramniales). Plants. 9: 284.

Shipunov A. *Plantago* and *Littorella*. In: Freeman, C. and Rabeler R. (eds.) Flora of North America. 2019. Volume XVII. P. 280–293. Oxford University Press, New York and Oxford.

Shipunov A., Gladkova S., Timoshina P., Lee H.J., Choi J., Despiegelaere S. and Connolly B. 2019. Mysterious chokeberries: new data on the diversity and phylogeny of *Aronia* Medik. (Rosaceae). European Journal of Taxonomy 570: 1–14.

Hassemer G., Bruun-Lund S., **Shipunov A.**, Briggs B.G., Meudt H.M., Rønsted N. 2019. The application of high-throughput sequencing for taxonomy: The case of *Plantago* subg. *Plantago* (Plantaginaceae). Molecular Phylogenetics and Evolution. 138: 156–173.

Mushegian A., **Shipunov A.**, Elena S.F. 2016. Changes in the composition of the RNA virome mark evolutionary transitions in green plants. BMC Biology. 14: 68.

Choi J., Lee H.J., **Shipunov A.** 2015. All that is gold does not glitter? Age, taxonomy, and ancient plant DNA quality. PeerJ. 3: e1087.

Shipunov A. 2015. *Plantago schrenkii* is *P. maritima*: morphological and molecular evidence. Annales Botanici Fennici. 52: 33–37.

Volkova P., **Shipunov A.**, Borisova P., Moseng R., Ivens R. 2014. In search of hybridity: the case of Karelian spruces. Silva Fennica. 48: 1072.

Volkova P., Kasatskaya S., Boiko A., **Shipunov A.** 2011. Stability of leaf form and size during specimen preparation of herbarium specimens. Feddes Repertorium. 121: 219–225.

Shipunov A., Kosenko Y. Volkova P. 2011. Floral polymorphism in common primrose (*Primula vulgaris* Huds., Primulaceae) of the Northeastern Black Sea coast. Plant Systematics and Evolution. 296: 167–178.

Shipunov A., Shipunova E. 2011. *Haptanthus* story: rediscovery of enigmatic flowering plant from Honduras. American Journal of Botany. 98: 761–763.

Serebryanaya A., **Shipunov A.** 2009. Morphological variation of plants on the uprising islands of northern Russia. Annales Botanici Fennici. 46: 81–89.

Newcombe G., **Shipunov A.**, Eigenbrode S.D., Raghavendra A.K.H., Ding H., Anderson C.L., Menjivar R., Crawford M., Schwarzländer M. 2009. Endophytes influence protection and growth of an invasive plant Communicative & Integrative biology. 2: 29–31.

Shipunov A., Newcombe G., Raghavendra A.K.H., Anderson C.L. 2008. Hidden diversity of endophytic fungi in an invasive plant. American Journal of Botany. 95: 1096–1108.

Volkova P., **Shipunov A.** 2008. Morphological variation of *Nymphaea* (Nymphaeaceae) in European Russia. Nordic Journal of Botany. 25: 329–338.

Patterson D.J., Faulwetter S., **Shipunov A.** 2008. Principles for a names-based cyberinfrastructure to serve all of biology. Zootaxa. 1950: 153–163.

Volkova P., Rudakova V., **Shipunov A.** 2007. Sex ratios in populations of *Geranium sylvaticum* in European Russia. Plant Species Biology. 22: 125–128.

Volkova P., **Shipunov A.**, Elven E., Brochmann Ch. 2008. The seashore sedges of the Russian Kola Peninsula: How many species? Flora. 203: 323–333.

Pillon Y., Fay M.F., Hedren M., Bateman R.M., Devey D., **Shipunov A.**, van der Bank M., Chase M.W. 2007. Evolution and temporal diversification of western European polyploid species complexes in *Dactylorhiza* (Orchidaceae). Taxon. 56: 1185–1208.

Volkova P., Choob V., **Shipunov A.** 2007. The flower organ transition in water lily (*Nymphaea alba* s.l., Nymphaeaceae) under cross-examination with different morphological approaches. Belgian Journal of Botany. 140: 60–72.

Pillon Y., Fay M.F., **Shipunov A.**, Chase M.W. 2006. Species diversity versus phylogenetic diversity: a practical study in the taxonomically difficult genus *Dactylorhiza* (Orchidaceae). Biological Conservation. 129: 4–13.

Shipunov A., Bateman R.M. 2005. Geometric morphometrics as a tool for understanding *Dactylorhiza* (Orchidaceae) diversity in European Russia. Biological Journal of Linnean Society. 85: 1–12.

Shipunov A., Fay M.F., Pillon Y., Bateman R.M., Chase M.W. 2004. *Dactylorhiza* (Orchidaceae) in European Russia: combined molecular and morphological analysis. American Journal of Botany. 91: 1419–1427.