**Lukáš Drag**

(\*February 1986, Prague, Czech Republic)

Department of Biodiversity and Conservation Biology

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**Education**

**2016 Ph.D. degree in Entomology**

University of South Bohemia, Ceske Budejovice, Czech Republic

*Thesis*: Phylogeography and conservation genetics of endangered saproxylic beetles in Europe

*Advisor:* Lukas Cizek, Ph.D.

**2011Mgr. [MSc.] degree in Zoology** (Animal Ecology)

University of South Bohemia, Ceske Budejovice, Czech Republic

*Thesis*: Demography and dispersal ability of the Alpine Longhorn *Rosalia alpina* (Coleoptera)

*Advisor:* Lukas Cizek, Ph.D.

**2008Bc. [BSc.] degree in Biology**

University of South Bohemia, Ceske Budejovice, Czech Republic

*Thesis*: The effect of ants’ predation risk for herbivorous insect

*Advisor:* Milan Janda, Ph.D.

**Professional Experience**

**2017 – present** Institute of Entomology, Biology Centre Czech Academy of Sciences, Ceske Budejovice, Czech Republic, Department of Biodiversity and Conservation Biology; **postdoc**

* Radio-tracking
* Field work (FIT traps, tree characteristics, data collection, etc.)
* Statistical analysis
* Manuscripts preparation

**2011 – 2016** Institute of Entomology, Biology Centre Czech Academy of Sciences, Ceske Budejovice, Czech Republic, Department of Biodiversity and Conservation Biology; **Ph.D. student**

* Activity in the laboratory (454 pyrosequencing, microsatellites, sequencing, etc.)
* Activity in the field (monitoring of NATURA 2000 species, mark-recapture studies, sample collection for genetic analyses, etc.)
* Statistical analysis
* Manuscripts preparation

**2014 – 2015** Institute of Parasitology, Czech Academy of Sciences, Ceske Budejovice, Czech Republic, Laboratory of Molecular Phylogeny and Evolution of Parasites; **laboratory** **assistant**

* Work in the laboratory (library preparation for Illumina sequencing, microsatellites, PCR, etc.)

**Other Training**

**2016 Workshop on Population and Speciation Genomics,** Cesky Krumlov, Czech Republic; *11 days*

**2015 ddRAD library preparation wet-lab training**, University of South Bohemia, Czech Republic (Lubomir Pialek Ph.D., University of South Bohemia); *5 days*

**2014**  **Research internship at Dr. Andrzej Oleksa´s lab**; Institute of Experimental Biology, Kazimierz Wielki University, Bydgoszcz, Poland; *3 month*

**2014 Field assistant for sample collection of fresh water fishes**, Misiones, Argentina (prof. Jorge D. Williams, National University of La Plata, Argentina); *15 days*

**2014** **Workshop "Next-Generation Sequencing"**, Institute of Vertebrate Zoology, Nové Hrady, Czech Republic; *3 days*

**2013** **Workshop "Basics in biostatistics and computational biology"**, Institute of Vertebrate Zoology, Brno, Czech Republic; *5 days*

**2013** **Workshop "Macroecology and species distribution models"**,University of South Bohemia, Czech Republic (Sara Varela Ph.D., Faculty of Science, Charles University, Prague); *5 days*

**2013** **Workshop "Population and conservation genetics"**,University of South Bohemia, Czech Republic (prof. Tomas Hrbek, Univesidade Federal do Amazonas, Brazil); *3 days*

**2012** **Workshop „Mohelno Summer School – From genotype to phenotype and back“**, Institute of Vertebrate Zoology, Brno, Czech Republic; *5 days*

**2008** **International Tropical Ecology Course**, The New Guinea Binatang Research Center, Papua New Guinea (prof. Vojtech Novotny, University of South Bohemia, Czech Republic); *1 month*

**IF publications**

Castro A., **Drag L.**, Cizek L., Fernández J. (2019) *Rosalia alpina* adults (Linnaeus, 1758) (Insecta, Coleoptera) avoid direct sunlight. Animal Biodiversity and Conservation 42.1 : 59-63.

**Drag L.**,Hauck D., Rican O., Schmitt T., Shovkoon F.D., Godunko R. J., Curletti G., Cizek L. (2018) Phylogeography of the endangered saproxylic beetle Rosalia longicorn, *Rosalia alpina* (Coleoptera, Cerambycidae), corresponds with its main host, the European beech (*Fagus sylvatica*, Fagaceae). *Journal of Biogeography*, *in press.*

**Drag L.** & Čížek L. (2018) Radio-Tracking Suggests High Dispersal Ability of the Great Capricorn Beetle (*Cerambyx cerdo*). *Journal of Insect Behavior* 31: 138–143.

Volf M., Holec M., Holcová D., Jaroš P., Hejda R., **Drag L.**, Blízek J., Šebek P., Čížek L. (2018) Microhabitat mosaics are key to the survival of an endangered ground beetle (*Carabus nitens*) in its post-industrial refugia. *Journal of Insect Conservation* 22: 321-328.

Basiita R.K., Bruggemann J.H., Cai N., Cáliz-Campal C., Chen C.,… **Drag L.**, et al. (2016) Microsatellite records for volume 7, issue 4. *Conservation Genetics Resources* 8: 85–87.

**Drag L.**, Hauck D., Berces S., Michalcewicz J., Jelaska Šerić L., Aurenhammer S., Cizek L. (2015) Genetic differentiation of populations of the threatened saproxylic beetle Rosalia longicorn, *Rosalia alpina* (Coleoptera, Cerambycidae) in Central and Southeast Europe. *Biological Journal of the Linnean Society* 116: 911–925.

**Drag L.** & Čížek L. (2015) Successful reintroduction of an endangered veteran tree specialist: Conservation and genetics of the Great Capricorn beetle (*Cerambyx cerdo*). *Conservation Genetics* 16: 267–276.

Elek Z., **Drag L.**, Pokluda P., Cizek L., Berces S. (2014) Dispersal abilities of three populations of the flightless grassland specialist, *Carabus hungaricus* ground beetle (Coleoptera: Carabidae), and what do they tell us about mark-recapture based mobility estimates. *European Journal of Entomology* 111: 663–668*.*

Pokluda P., Čížek L., Stříbrná E., **Drag L.**, Lukeš J., Novotný V. (2014) A goodbye letter to alcohol: An alternative method for field preservation of arthropod specimens and DNA suitable for mass collecting methods. *European Journal of Entomology* 111: 175–179.

**Drag L.**, Kosnar J., Cizek L. (2013) Development and characterization of ten polymorphic microsatellite loci for the Great Capricorn beetle (*Cerambyx cerdo*) (Coleoptera: Cerambycidae). *Conservation Genetics Resources* 5: 907–909.

**Drag L.**, Zima J. Jr., Cizek L. (2013) Characterization of nine polymorphic microsatellite loci for a threatened saproxylic beetle *Rosalia alpina* (Coleoptera: Cerambycidae). *Conservation Genetics Resources* 5: 903–905.

**Drag L.**, Hauck D., Pokluda P., Zimmermann K., Čížek L. (2011) Demography and Dispersal Ability of a Threatened Saproxylic Beetle: A Mark-Recapture Study of the Rosalia Longicorn (*Rosalia alpina*). *PLoS One*6: e21345. DOI: 10.1371/journal.pone.0021345.

**Contributions to international conferences**

**Drag L.,** Hauck D., Říčan O., Schmitt T., Shovkoon F.D., Godunko R. J., Curletti G., Čížek L. (2018) Phylogeography of the endangered saproxylic beetle Rosalia longicorn, *Rosalia alpina* (Coleoptera, Cerambycidae), corresponds with its main host, the European beech (*Fagus sylvatica*, Fagaceae). *10th European Saproxylic Beetle Conference, 8-10 June 2018, Bavarian Forest National Park, Germany.*

Čížek L., **Drag L.** (2017) Well known or unknown? What do we know about *Rosalia alpina*? Victim or perpetrator of myths surrounding its biology. European Workshop “Monitoring of saproxylic beetles and other insects protected in the European Union”, *24-26 May 2017, Mantova*, Italy.

**Drag L.,** Čížek L. (2017) Dispersal ability of the protected saproxylic beetle: first insight into the radio-tracking of the Great Capricorn beetle (*Cerambyx cerdo*). *2nd International Conference on Forests, 26-29 April 2017, Bavarian Forest National Park, Neuschönau, Germany.*

**Drag L.,** Čížek L. (2014) Successful reintroduction of an endangered veteran tree specialist: Conservation and genetics of the Great Capricorn beetle (*Cerambyx cerdo*). *8th Symposium and workshop on the conservation of saproxylic beetles, 13-15 June 2014, Basel, Switzerland.*

**Drag, L**., Hauck, D., Pokluda, P., Čížek, L. (2010) Habitat preferences and population size of the last population of the Alpine Longhorn *Rosalia alpina* (Coleoptera: Cerambycidea) in Bohemia. *6th European symposium and workshop on the conservation of saproxylic beetles, 15-17 June 2010, Ljubljana, Slovenia.*

**Teaching and reviewing**

* **Exercise in Zoology** at University of South Bohemia, Ceske Budejovice
* Several **field trips** for students with the focus on insect determination
* **Supervisor** of bachelor student at University of South Bohemia, Ceske Budejovice
* Referee for **Biological Journal of the Linnean Society** (2), **Journal of Insect Conservation** (2), **Insect Conservation and Diversity** (1), **Basic and Applied Ecology** (1), **European Journal of Entomology** (2), **Annales Zoologici Fennici** (1), **Polish Journal of Ecology** (1)

**Skills**

* Communication (Czech: Native, English: Fluent, German: Basic, scientific writing in English)
* Advance use of molecular laboratory equipment
* High experience in field work (data collection, species monitoring, mark-recapture,…)
* Advance use of population genetics programs (Arlequin, Structure, DnaSP, Genepop,…)
* Advance work with sequences (Geneious, Mega, Bioedit,…)
* Basic use of phylogenetic inference (PAUP, MrBayes, BEAST)
* Advance use of Geographic Information Systems (ArcGIS, QGIS)
* Basic use of general statistics ('R' environment, Statistica, Canoco)
* Advanced use of basic computer programs (Microsoft Word, Excel, PowerPoint,…)
* European Driver Licence B