

Svetlana Orlovskytė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

- 2012–2016 Doctoral degree of Ecology and Environmental studies (03 B) in the field of biomedical sciences (Vilnius University and Nature Research Centre).
Dissertation title: "Insects inhabiting the trap-nests for Hymenoptera and effects of anthropogenic factors on them", supervisor – dr. E. Budrys.
Fields of research: systematics, ecology; the diversity of the community of trap-nests and its dependence on anthropogenic factors.
- 2010–2012 Vilnius University, Zoology / Master.
Master thesis title: "The identification of the *Chrysis ignita* (Hymenoptera: Chrysididae) species group based on morphological and molecular characters".
The research was carried out at Nature Research Centre, laboratory of Chemical and Behavioural Ecology.
Fields of research: systematics; identification of cryptic cuckoo wasp species by traditional and molecular biology methods.
- 2006–2010 Vilnius University, Biology / Bachelor.
Thesis title: "The cuckoo-wasps (Hymenoptera, Chrysididae) of Lithuania: fauna, biology and identification of species".
The research was carried out at Nature Research Centre, laboratory of Chemical and Behavioural Ecology.
Fields of research: systematics, ecology; diversity of Lithuanian cuckoo wasp species.

PROFESSIONAL EXPERIENCE

- 2018 01–until now **Researcher**
laboratory of Chemical and Behavioural Ecology, Nature research centre
- 2017 01–2017 12 **Junior researcher**
laboratory of Chemical and Behavioural Ecology, Nature research centre
- 2011 09–2016 12 **Biologist**
laboratory of Chemical and Behavioural Ecology, Nature research centre
- 2009 09–2011 08 **Laboratory assistant**
laboratory of Chemical and Behavioural Ecology, Nature research centre

RESEARCH INTERESTS

The species composition and trophic relationships of the insect community inhabiting the artificial trap-nests for Hymenoptera; morphological, molecular, and ecological characters of sibling species of the community; mitotype variability of honey bee subspecies and identification of miner moths by partial sequences of mitochondrial DNA cytochrome c oxidase 1 subunit; DNA extraction, PCR,

electrophoresis, purification of PCR product and preparation for sequencing; aligning and analysis of obtained sequences; intraspecific and interspecific variability studies; phylogeny reconstruction.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. Soon V., Budrys E., **Orlovskytė S.**, Paukkunen J., Ødegaard F., Ljubomirov T., Saarma U. 2014. Testing of validity of Northern European species in the *Chrysis ignita* species group (Hymenoptera: Chrysididae) with DNA barcoding. – *Zootaxa*, 3786 (3): 301–330. DOI: 10.11646/zootaxa.3786.3.4
2. **Orlovskytė S.**, Budrys E., Budrienė A., Radzevičiūtė R., Soon V. 2016. Sibling species in the *Chrysis ignita* complex: molecular, morphological and trophic differentiation of Baltic species, with a description of two new cryptic species (Hymenoptera: Chrysididae). – *Systematic Entomology*, 41 (4): 771–793. DOI: 10.1111/syen.12190
3. Budrys E., Budrienė A., **Orlovskytė S.**, Soon V. 2019. Two new species of *Diodontus* (Hymenoptera: Pemphredonidae) from the western Mediterranean and their phylogenetic relationships. – *Canadian Entomologist*, 151: 558–583. DOI: 10.4039/tce.2019.46
4. Stonis J. R., Remeikis A., Diškus A., **Orlovskytė S.**, Vargas S. A., Solis M. A. 2019. A new leafmining pest of guava: *Hesperolyra guajavifoliae* sp. nov., with comments on the diagnostics of the endemic Neotropical genus *Hesperolyra* van Nieuwerkerken (Lepidoptera, Nepticulidae). – *ZooKeys*, 900: 87–110. DOI: 10.3897/zookeys.900.46332
5. Budrienė A., Budrys E., **Orlovskytė S.** 2021. A bilateral gynandromorph of *Discoelius dufourii* (Hymenoptera, Vespidae, Zethinae): morphology and mating behaviour. – *Journal of Hymenoptera Research*, 81: 23–41. DOI: 10.3897/jhr.81.61550

Reviewed scientific articles, published in Lithuania:

1. **Orlovskytė S.**, Budrienė A., Budrys E. 2010. Check-list of cuckoo-wasps (Hymenoptera: Chrysididae) of Lithuania. – *New and Rare for Lithuania Insect Species*, 22: 141–156.
2. Radzevičiūtė R., Budrienė A., Budrys E., **Orlovskytė S.**, Turčinavičienė J. 2012. A panel of microsatellite markers developed for solitary trap-nesting wasp *Ancistrocerus trifasciatus* (Müller, 1776) by cross-species amplification. – *Ekologija*, 58 (1): 1–7.
3. Budrys E., Budrienė A., **Orlovskytė S.** 2014. Records of spider wasps of the subfamily Pepsinae (Hymenoptera: Pompilidae) in Lithuania. – *New and Rare for Lithuania Insect Species*, 26: 73–83.
4. **Orlovskytė S.**, Budrys E. 2015. First record of *Symmorphus fuscipes* in Lithuania. – *New and Rare for Lithuania Insect Species*, 27: 122–123.
5. Budrys E., **Orlovskytė S.** 2016. First record of alien mud dauber wasp *Sceliphron curvatum* in Lithuania (Hymenoptera: Sphecidae). – *New and Rare for Lithuania Insect Species*, 28: 94–96.
6. Paukkunen J., Biström O., Budrys E., Helve E., Lagercrantz C.-G., Mannerkoski I., **Orlovskytė S.**, Tähtinen M. 2016. Entomological excursion to the Curonian Spit in August 2016. – *New and Rare for Lithuania Insect Species*, 28: 97–120.
7. Budrys E., **Orlovskytė S.** 2017. Unexpected record of *Diodontus brevilabris* (Hymenoptera: Crabronidae) in Lithuania. – *Bulletin of the Lithuanian Entomological Society*, 1 (29): 121–123.
8. **Orlovskytė S.**, Budrys E., Budrienė A. 2018. Check-list of gasteruptionid wasps (Hymenoptera: Gasteruptionidae) of Lithuania, with new data on trophic interactions. – *Bulletin of the Lithuanian Entomological Society*, 2 (30): 119–126.

9. Budrys E., Orlovskytė S., Petrašiūnas A., Budrienė A. 2019. First records of *Mimumesa wuestneii* (Faester, 1951) and other rare apoid wasps in Lithuania (Hymenoptera: Psenidae, Crabronidae, Bembicidae). – *Bulletin of the Lithuanian Entomological Society*, 3 (31): 118–123.
10. Orlovskytė S., Budrys E. 2019. First records of *Chrysis splendidula* Rossi, 1790 (Hymenoptera: Chrysididae), and other corrections of the cuckoo wasp check-list of Lithuanian fauna. – *Bulletin of the Lithuanian Entomological Society*, 3 (31): 124–129.
11. Orlovskytė S., Budrys E., Budrienė A. 2021. Records of spider wasps of the subfamily Pompilinae (Hymenoptera: Pompilidae) in Lithuania. – *Bulletin of the Lithuanian Entomological Society*, 5 (33): 100–110.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

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| 2022 | BITE-KV-22-1-00954-PR001 Morphometric evaluation of the selection efficiency in the developing population of the Lithuanian dark bee and the search for the new bee families to support it (National Paying Agency under the Ministry of Agriculture of the Republic of Lithuania, project leader dr. L. Blažytė-Čereškienė), researcher. |
| 2022 | BITE-KV-22-1-00799-PR001 Prevalence of nuclear DNA markers specific to Lithuanian local bees in families used for selection (National Paying Agency under the Ministry of Agriculture of the Republic of Lithuania, project leader dr. E. Budrys), researcher. |
| 2021 | BITE-KV-21-1-00814-PR001 Determination of nuclear intron haplotypes specific to the population of Lithuanian native bees (National Paying Agency under the Ministry of Agriculture of the Republic of Lithuania, leader dr. E. Budrys), researcher. |
| 2021 | BITE-KV-21-1-00816-PR001 Search for potential places for conservation of Lithuanian native bees (National Paying Agency under the Ministry of Agriculture of the Republic of Lithuania, leader dr. L. Blažytė-Čereškienė), researcher. |
| 2020–2022 | MIP-20-114 Genes under selection pressure: the evolutionary rate in speciation and the applicability for identification of cryptic species (ATRANKA) (Research Council of Lithuania, leader dr. E. Budrys), researcher. |
| 2017–2019 | MTTV Assessment of the possibility of survival of the Lithuanian local bees <i>Apis mellifera mellifera</i> gene pool (the Ministry of Agriculture of the Republic of Lithuania, leader dr. L. Blažytė-Čereškienė), researcher. |
| 2014–2016 | MIP-042/2014 Trophic networks and ecosystem functions of Hymenoptera in forest and in clearcut areas (KIRTAVIETĖS) (Research Council of Lithuania, leader dr. A. Budrienė), researcher. |
| 2011–2012 | MIP-033/2011 The influence of species adaptability to anthropogenic environment on the genetic diversity among its populations (SINANTROPAI) (Research Council of Lithuania, leader dr. E. Budrys), researcher. |
| 2010–2011 | MIP-115/2010 The influence of landscape fragmentation on the genetic diversity of pollinators and entomophagous insects (FRAGILEGEN) (Research Council of Lithuania, leader dr. E. Budrys), researcher. |
| 2009–2014 | Nr. 226852 Securing the conservation of biodiversity across administrative levels and spatial, temporal and ecological scales (SCALES) (EU Framework Programme 7 Project, leader dr. A. Budrienė), researcher. |

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. **Orlovskytė S.**, Budrienė A., Budrys E. 2010. Morphometric differences between the European cuckoo-wasp sibling species of *Chrysis ignita* group (Hymenoptera: Chrysididae) // The VII International Congress of Hymenopterists, Kőszeg, Hungary.
2. **Orlovskytė S.**, Budrienė A., Budrys E. 2010. Morphometric differences between the European cuckoo-wasp sibling species of *Chrysis ignita* group (Hymenoptera: Chrysididae) // The XXVIII Nordic-Baltic Congress of Entomology, Birštonas, Lithuania. Vilnius, Ciklonas: p. 59.
3. **Orlovskytė S.**, Budrys E., Budrienė A. 2016. Sibling species of *Chrysis ignita* complex: molecular, morphological and trophic differentiation of North European species and description of new species (Hymenoptera: Chrysididae) // The XXVth International Congress of Entomology, Orlando, Florida.
4. Budrys E., **Orlovskytė S.**, Budrienė A., Lazauskaitė M. 2022. How to find a cryptic species? A case of Baltic wasp // 80th international scientific conference of University of Latvia. Biology section, Zoology and Animal Ecology sub-section, Riga, Latvia: p. 8–9.
5. Lazauskaitė M., Budrienė A., **Orlovskytė S.**, Budrys E. 2022. *Ancistrocerus* wasps (Vespidae) in the centre of Europe: a common new cryptic species and their confusing phylogeny // A 24 hour virtual symposium from the International Society of Hymenopterists. p. 17.

National scientific conferences:

1. **Orlovskytė S.** 2011. *Chrysis ignita* (Hymenoptera: Chrysididae) grupės rūšių atpažinimas pagal morfologinius ir molekulinis požymius // The national conference of young scientists "Bioateitis: gamtos ir gyvybės mokslų perspektyvos", Vilnius, Lithuania: p. 6.
2. **Orlovskytė S.**, Budrienė A., Budrys E. 2012. *Chrysis ignita* (Hymenoptera: Chrysididae) grupės atpažinimas pagal morfometrinius ir molekulinis požymius // The national conference "Mokslas Gamtos mokslų fakultete", Vilnius, Lithuania. Vilniaus universiteto leidykla: p. 191.
3. **Orlovskytė S.**, Budrys E. 2015. Rūšys-antrininkės: molekuliniai, morfologiniai ir mitybiniai *Chrysis ignita* (Hymenoptera: Chrysididae) komplekso rūšių skirtumai // The Xth national conference "Lietuvos biologinė įvairovė: būklė, struktūra, apsauga", Vilnius, Lithuania: p. 25.
4. **Orlovskytė S.**, Budrys E., 2015. Rūšys-antrininkės: molekuliniai, morfologiniai ir mitybiniai *Chrysis ignita* (Hymenoptera: Chrysididae) komplekso rūšių skirtumai // The national conference of young scientists "Bioateitis: gamtos ir gyvybės mokslų perspektyvos", Vilnius, Lithuania: p. 3.

OTHERS

1. Blažytė-Čereškienė L., Budrys E., Skrodenytė-Arbačiauskienė V., **Orlovskytė S.**, 2019. Vidurio Europos tamsioji bitė *Apis mellifera mellifera* Lietuvoje. – *Lietuvos bitininkas*, 99: 23–26.
- 2022 Participation in the doctoral process: a member of the commission for the doctoral exam "Molecular Systematics".
- 2020–2022 Peer-reviewed 2 articles for the Q2 "Annual Research & Review in Biology" and the Q4 "Plant Cell Biotechnology and Molecular Biology" journals.
- 2016 Travel support for full-time PhD or Master students working on any area relevant to Hymenoptera to attend the International Congress of Entomology in Orlando.
- 2016 The 1st place winner in the ICE2016 Graduate Student Poster Competition (Morphology, Systematics, and Phylogeny: Springtails, Beetles, and Hymenoptera).
- 2016 A new species *Chrysis horridula* sp. nov. was described (<http://zoobank.org/NomenclaturalActs/34B8485B-D8F4-4B62-93D3-8A9F5E1FA18A>).

- 2015 The 1st place winner in the national conference of young scientists "Bioateitis: gamtos ir gyvybės mokslų perspektyvos".
- 2011 The 1st place winner in the national conference of young scientists "Bioateitis: gamtos ir gyvybės mokslų perspektyvos".