

ALEXEY A. POLILOV

CURRICULUM VITAE

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DATE OF BIRTH: 22 June 1981

BIRTHPLACE: Moscow, Russia

CITIZENSHIP: Russian

MARITAL STATUS: married

CONTACTS

Work:

Department of Entomology
Biological faculty
Lomonosov Moscow State University
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CURRENT POSITION

Associate professor, Department of Entomology, Biological Faculty, Lomonosov Moscow State University (Russia).

RESEARCH INTERESTS

Miniaturization of the insect. Functional morphology of smallest insects (Coleoptera: Ptiliidae, Corylophyidae; Hymenoptera: Mymaridae, Trichogrammatidae; Psocoptera: Liposcelidae). Taxonomy, systematics and phylogeny of feather-wing beetles (Coleoptera: Ptiliidae). Vertical distribution of the Coleoptera in the canopy of tropical forest.

EDUCATION

2008 Postdoc, Institut für Spezielle Zoologie and Evolutionsbiologie, FSU Jena, Germany

2007 Candidate degree (PhD), Lomonosov Moscow State University, Russia.

2003 Diploma of Zoology, Lomonosov Moscow State University, Russia.

1998 Biological high school, Moscow, Russia.

AWARDS

2004 Ministry of Science and Education of Russia.

2005 Government of Russia.

2006 President of Russia.

2010 Lomonosov Moscow State University.

2011 Russian academy of Science

GRANTS

2007-2009 Russian fund of basic research (900000 P., in collaboration)

2008 Alexander von Humboldt foundation (15000 €)

2008-2009 Alexander von Humboldt return fellowship (6500 €)

2009 Alexander von Humboldt equipment foundation (20000 €)

2010-2011 Grant of Russian President (1200000 P.)

2010-2012 Russian fund of basic research (1200000 P., in collaboration)

2011-2013 Russian fund of basic research (800000 P.)

SOCIETY MEMBERSHIPS

- Moscow Society of Naturalists (2001-present)
- Russian Entomological Society (2006-present)

LAST KEY TALKS

- *"Neurons of the smallest insects lack a nucleus"*. Second International Congress of Invertebrate Morphology, Boston, Harvard University, June 2011.

- *"Morphological features of Insects associated with miniaturization"*
International congress "Fundamental problems of entomology in XXI century" Sankt-Petersburg, May 2011.
- *"Anatomy of Mikado sp. (Coleoptera: Ptiliidae), one of the smallest free-living insects and limits to insects miniaturization"*. XI-th European congress of entomology, Budapest, Hungary, August 2010.

SCIENTIFIC CONFERENCES

- XI-th Lomonosov international congress of young scientist, Moscow, Russia, April 2004.
- XII-th Lomonosov international congress of young scientist, Moscow, Russia, April 2005.
- XIII-th Lomonosov international congress of young scientist, Moscow, Russia, April 2006.
- VIII-th European Congress of Entomology, Izmir, Turkey, September 2006.
- International symposium of Hymenopterology, Moscow, Russia, September 2006.
- XIII-th Congress of Russian Entomological Society, Krasnodar (Russia), September 2007.
- 101-th Annual meeting of Deutschen Zoologischen Gesellschaft, Jena, September 2008.
- II-th International practical-science Internet-conference "The present-day questions of entomology", Stavropol, March 2009.
- XI-th European congress of entomology, Budapest, Hungary, August 2010
- III-th International practical-science Internet-conference "The present-day questions of entomology", Stavropol, March 2010.
- II-th International symposium of Hymenopterology, Moscow, Russia, Sankt-Petersburg, September 2010.
- International congress "Fundamental problems of entomology in XXI century" Sankt-Petersburg, May 2011.

- IV-th International practical-science Internet-conference "The present-day questions of entomology", Stavropol, March 2011.
- Second International Congress of Invertebrate Morphology, Boston, Harvard University, June 2011.

TEACHING EXPERIENCE:

Field practice in Entomology, Lomonosov Moscow State University (2005-2011).

Entomology, lecture and practical lessons, Moscow State Regional University (2006).

Microscopical and histological study of Insects, lecture and practical lessons, Lomonosov Moscow State University (2006-2009).

Molecular phylogeny and genetic systematics, practical lessons, Lomonosov Moscow State University (2007-2011).

Leadership of student degree work and PhD student, Lomonosov Moscow State University (2008-2011)

FIELD EXPERIENCE

About 700 days of field-work in Russia, Ukraine, Uzbekistan, Kyrgyzia, Turkey, Iran, India, Vietnam, Dominican Republic.

LAST KEY ARTICLES

1. Polilov A.A. 2012. The smallest insects evolve anucleate neurons // *Arthropod Structure and Development*, 41: 27-32.
2. Polilov A.A. 2011. Thoracic musculature of *Sericoderus lateralis* (Coleoptera, Corylophidae): miniaturization effects and flight muscle degeneration related to development of reproductive system // *Entomological Review*, 91 (6): 735–742.
3. Polilov A.A. Beutel R.G. 2010. Developmental stages of the hooded beetle *Sericoderus lateralis* (Coleoptera: Corylophidae) with comments on the phylogenetic position and effects of miniaturization // *Arthropod Structure and Development*, 39 (1): 52-69.

4. Polilov A.A. Beutel R.G. 2009. Miniaturization effects in larvae and adults of *Mikado* sp. (Coleoptera: Ptiliidae), one of the smallest free-living insects // *Arthropod Structure and Development*, 38: 247-270.
5. Polilov A.A. 2008. Anatomy of the smallest of the Coleoptera, Feather-winged beetles from tribe Nanosellini (Coleoptera, Ptiliidae) and limits to Insect miniaturization // *Entomological review*, 88 (1): 26-33.

LIST OF PUBLICATIONS

1. Polilov A.A. 2003. Fauna of the featherwing beetles (Coleoptera: Ptiliidae) of Moscow region [Фауна жуков-перистокрылок (Coleoptera: Ptiliidae) Московской области] // *Bolletín MOIP*, 108(5), 11-17 (in Russian).
2. Polilov A.A., Perkovsky E.E. 2004. New species of Late Eocene Feather-winged beetles (Coleoptera, Ptiliidae) from Rovno and Baltic Amber // *Paleontological Journal*, 38(6), 664-668.
3. Polilov A.A. 2004. Anatomical limits of miniaturization in insects by the example of the smallest Coleoptera [Анатомические пределы миниатюризации насекомых на примере мельчайших жесткокрылых] // *Zeiss today*, 25, 2 (in Russian).
4. Polilov A.A. 2004. Structural limits of miniaturization in insects by the example of the smallest Coleoptera [Морфологические пределы миниатюризации насекомых на примере мельчайших жесткокрылых] // *Theses of the XI-th Lomonosov international congress of young scientist, Moscow, Russia, April 2004*, 126-127 (in Russian).
5. Polilov A.A., Bibin A. 2004. An introduction to the Ptiliidae (Coleoptera) of the Caucasian reserve with the description of new and little known species // *Russian Entomological Journal*, 13(3), 1-5.
6. Polilov A.A. 2005. Limits to insects miniaturization [Пределы миниатюризации насекомых] // *XII Lomonosov international congress of young scientist, Moscow, Russia, April 2005*, 178-179 (in Russian).
7. Polilov A.A. 2005. Anatomy of feather-winged beetles and miniaturization of the Insects [Анатомия жуков-перистокрылок и миниатюризация

- насекомых] // Transactions celebrating the 250th of Moscow State University, 7-12 (in Russian).
8. Polilov A.A. 2005. Anatomy of the feather-winged beetles *Acrotrichis montandoni* and *Ptilium myrmecophilum* (Coleoptera, Ptiliidae) // Entomological review, 85(5), 467-475.
 9. Polilov A.A. 2006. Volume of inner organs of smallest Coleoptera with special reference to effects of miniaturization [Объем внутренних органов и пределы миниатюризации насекомых] // Theses of the XII-th Lomonosov international congress of young scientist, Moscow, Russia, April 2006, 181-182 (in Russian).
 10. Polilov A.A. 2006. Limits to insects miniaturization by the example of the smallest Coleoptera // VIIIth European Congress of Entomology, Izmir, Turkey September 17-22, 2006, supplementary abstract book, 15.
 11. Polilov A.A. 2006. Structural features of the Mymaridae related to miniaturization [Морфологические особенности Мумариде связанные с миниатюризацией] // Theses of the International simposium of Hymenopterology, Moscow, Russia, september 2006, 69 (in Russian).
 12. Polilov A.A. 2007. Miniaturization-related structural features of Мумариде [Морфологические особенности Мумариде связанные с миниатюризацией] // Studies on hymenopterous insect. Collection of scientific papers. Moscow, KMK, 50-64 (in Russian).
 13. Polilov A.A. 2008. Anatomy of the smallest of the Coleoptera, Feather-winged beetles from tribe Nanosellini (Coleoptera, Ptiliidae) and limits to Insect miniaturization // Entomological review, 88(1), 26-33.
 14. Polilov A. 2008. Volume of organs and limits to insect miniaturization // Jahresversammlung der Deutschen Zoologischen Gesellschaft vom 19. - 22. September 2008 in Jena. 162.
 15. Polilov A.A. 2008. An introduction to the Ptiliidae (Coleoptera) of Primorskiy region with descriptions of three new genera, new and little known species // Russian Entomol. J., 17(2), 149-176
 16. Polilov A.A. Beutel R.G. 2009. Miniaturization effects in larvae and adults of *Mikado* sp. (Coleoptera: Ptiliidae), one of the smallest free-living insects // Arthropod Structure and Development, 38, 247-270.

17. Polilov A.A. 2009. Changes in relative volume of organs during postnatal development of one of the smallest insect - *Mikado* sp. (Coleoptera: Ptiliidae) and limit of miniaturization in insects [Изменение относительного объема органов в ходе постнатального развития одного из мельчайших насекомых - *Mikado* sp. (Coleoptera: Ptiliidae) и пределы миниатюризации насекомых] // Works of the Stavropol department of Russian entomological society, 5, 25-29 (in Russian).
18. Polilov A.A. 2009. Ptiliidae // in Insects of Lazovsky natural reserve. Vladivostok: Dalnauka. 114-116. [Семейство Ptiliidae – Перокрылки] (in Russian).
19. Polilov A.A. Beutel R.G. 2010. Developmental stages of the hooded beetle *Sericoderus lateralis* (Coleoptera: Corylophidae) with comments on the phylogenetic position and effects of miniaturization // Arthropod Structure and Development, 39 (1), 52-69.
20. Polilov A.A. 2010. How many neurons does the smallest winged insect *Megaphragma* (Hymenoptera: Trichogrammatidae) have? // XI-th European congress of entomology, 22-27 August 2010, Budapest, Hungary, programme and book of abstracts, 189.
21. Polilov A.A., Beutel R.G. 2010. Anatomy of *Mikado* sp. (Coleoptera: Ptiliidae), one of the smallest free-living insects and limits to insects miniaturization // XI-th European congress of entomology, 22-27 August 2010, Budapest, Hungary, programme and book of abstracts, 70.
22. Makarova A.A., Polilov A.A. 2010. The peculiarities of the structure and ultrastructure of the brain of the smallest insects (Coleoptera: Ptiliidae; Hymenoptera: Mymaridae) as a result of miniaturization // XI-th European congress of entomology, 22-27 August 2010, Budapest, Hungary, programme and book of abstracts, 189.
23. Polilov A.A. 2010. How many neurons has *Megaphragma mymaripenne* Timberlake (Hymenoptera: Trichogrammatidae)? The lysis of neuron' bodies in adult stage [Сколько нейронов у *Megaphragma mymaripenne* Timberlake (Hymenoptera: Trichogrammatidae)? Явление лизиса тел нейронов на имагинальной стадии] // Theses of the II-th International

- simposium of Hymenopterology, Russia, St. Petersburg, September 2010, 112 (in Russian).
24. Polilov A.A. 2010. Structure of the nervous system of the *Sericoderus lateralis* (Coleoptera: Corylophidae) [Строение центральной нервной системы *Sericoderus lateralis* (Coleoptera: Corylophidae)] // Works of the Stavropol department of Russian entomological society 6, 11-13 (in Russian).
 25. Polilov A.A. 2011. Thoracic musculature of *Sericoderus lateralis* (Coleoptera, Corylophidae): miniaturization effects and flight muscle degeneration related to development of reproductive system / Entomological Review, 91 (6): 735–742.
 26. Polilov A.A. 2011. Neurons of the smallest insects lack a nucleus // Second International Congress of Invertebrate Morphology, Boston, Harvard University, 20-23 June 2011. 124.
 27. Polilov A.A. 2011. Vertical distribution of Coleoptera (Insecta) in monsoon tropical forests of Cat Tien national park (S. Vietnam). [Вертикальное распределение жесткокрылых (Insecta: Coleoptera) в муссонном тропическом лесу национального парка Кат Тиен (Ю. Вьетнам) в начале влажного сезона] // Works of the Stavropol department of Russian entomological society, 7, 126-129 (in Russian).
 28. Polilov A.A., Bibin A.R., Nikitsky N.B. 2011. Family Ptiliidae - feather-wing beetles [Семейство Ptiliidae – Перокрылки, перистокрылки] // In Coleoptera of Adigea Zamotaylov A.S., Nikitsky N.B. ed. Майкоп. 71-73 (in Russian).
 29. Polilov A.A. 2011. Morphological features of Insects associated with miniaturization [Морфологические особенности насекомых, связанные с миниатюризацией] // Proceedings of International congress "Fundamental problems of entomology in XXI century", 129 (in Russian).
 30. Makarova A.A., Polilov A.A. 2011. The peculiarities of the structure and ultrastructure of the CNS of the smallest insects [Особенности строения и ультраструктуры центральной нервной системы мельчайших насекомых] // Proceedings of International congress "Fundamental problems of entomology in XXI century", 96 (in Russian).

31. Polilov A.A. 2012. The smallest insects evolve anucleate neurons // *Arthropod Structure & Development*, 41: 27-32.

INTERNET PROJECTS

1. Polilov A., Johnson C., 2004. Ptiliidae. Fauna Europaea version 1.2 - <http://www.faunaeur.org>
2. Polilov A.A. Atlas of Ptiliidae, Corylophidae and Clambidae - http://www.zin.ru/Animalia/Coleoptera/rus/ptili_fm.htm