

Norman F. Johnson

Curriculum Vitae

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Personal

Department of Evolution, Ecology & Organismal
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Education

Ph.D., 1981 Cornell University
B.S., 1976 State University of New York College of Environmental Science & Forestry

Employment

2015–present: Martha N. and John C. Moser Chair in Arthropod Biosystematics and Biological Diversity
2015–present: Professor, Department of Evolution, Ecology & Organismal Biology, The Ohio State University (75%)
2015–present: Professor, Department of Entomology, The Ohio State University (25%)
2014–2017: Vice Chair, Department of Evolution, Ecology & Organismal Biology, The Ohio State University
2010–2015: Professor, Department of Evolution, Ecology & Organismal Biology, The Ohio State University
2011–2015: Professor, Department of Entomology, The Ohio State University (unpaid appointment)
2004–2010: Research Associate, Division of Invertebrates, American Museum of Natural History
1992–present: Director, C.A. Triplehorn Insect Collection
2002–2009: Professor, Department of Entomology, The Ohio State University
1988–2002: Associate Professor, Department of Entomology, The Ohio State University
1981–1988: Assistant Professor, Department of Entomology, The Ohio State University

Fellowships and Grants

2020 – 2023: Co-Principal Investigator, National Science Foundation, “PurSUIT: Resolving the chaos; making sense of the turtle mites,” \$370,051.
2017–2018: Principal Investigator, Ohio Department of Natural Resources, “Survey of the Odonata of Ohio,” \$128,848.
2016–2019: Principal Investigator, subaward from Northern Arizona University on National Science Foundation grant, “Digitization TCN: Collaborative Research: Lepidoptera of North America Network: documenting diversity in the largest clade of herbivores,” \$89,389.
2015–2018: Principal Investigator, National Science Foundation, “Integration of data from the Triplehorn Insect Collection with the Southwestern Collection of Arthropods Network,” \$173,901.
2015–2016: Principal Investigator, USDA Forest Service, “Preserving the John Moser mite collection,” \$10,549.

- 2010–2013: Co-Principal Investigator, National Science Foundation, “REVSYS: Exploiting a large existing resource for biogeographical and host-parasite data: linking immature and adult amblyommine ticks”, \$289,866.
- 2010–2013: Subcontract on grant to Hong Cui, University of Arizona, from National Science Foundation, “Fine-grained semantic markup of descriptive data for knowledge applications in biodiversity domains”, \$50,490.
- 2008–2012: Principal Investigator, National Science Foundation, “Increasing efficiency of space utilization for the Triplehorn Insect Collection (OSUC)”, \$415,551.
- 2006–2013: Principal Investigator, National Science Foundation, “PBI: Diversity and the parasitoid life-history strategy — the superfamily Platygastridae (Hymenoptera)”, \$2,600,000.
- 2006–2009: Co-Principal Investigator, National Science Foundation, “Databasing the Ohio State University acarology collection”, \$317,735.
- 2004–2009: Principal Investigator, National Science Foundation, “REVSYS: Classification, phylogeny, and biology of the parasitic wasp family Scelionidae”, \$500,000.
- 2004–2006: Principal Investigator, National Science Foundation, Collaborative Research: “Development of new digital library applications in the context of a basic ontology for biosystematics information using the literature of entomology (ants)”, \$25,000.
- 2000–2001: Principal Investigator, National Science Foundation, Supplement to implement integration between Partnerships in Enhancing Expertise in Taxonomy (PEET) program and Integrated Taxonomic Information Service (ITIS), \$33,106.
- 1999–2001: Principal Investigator, National Science Foundation, “An Information System for the Great Smoky Mountains National Park ATBI”, \$274,774.
- 1995–2001: Principal Investigator, National Science Foundation, “Partnerships in Enhancing Expertise in Taxonomy: Parasitic Wasps of the Family Scelionidae (Hymenoptera)”, \$339,000.
- 1994: GIS Coordinator, Ohio Division of Wildlife, “Biodiversity Survey Model: Killdeer Plains Wildlife Area”, \$3,000.
- 1993: Principal Investigator, National Science Foundation, Research Assistantships for Minority High School Students, supplement to Modernization in the Care and Use of the Systematic Entomology Collections at The Ohio State University, \$8,250.
- 1992–1995: Co-Principal Investigator, National Science Foundation, Biotic Systems and Resources Grant: “Modernization in the Care and Use of the Systematic Entomology Collections at The Ohio State University”, \$367,628.
- 1991: Co-Principal Investigator, National Science Foundation, Latin American Cooperative Science Program Travel Grant: “Scientific Visit to Prepare a Joint Research Proposal: Arthropod Biodiversity of Brazilian Amazônia.”
- 1991–1994: Principal Investigator, National Science Foundation, Systematic Biology Program Grant: “Systematics of Telenominae: World Fauna of *Trissolcus*, *Paratelenomus*”, \$110,000.
- 1986–1987: Co-Principal Investigator, Ohio State University Seed Grant: “Host-Finding Mechanisms in Parasitic Hymenoptera”.
- 1986–1987: U.S. Department of Agriculture Far East Regional Research Office, “Provision of Proctotrupoidea (Hymenoptera) by Commonwealth Institute of Biological Control, Bangalore.”
- 1986–1989: Principal Investigator, National Science Foundation, Systematic Biology Program Grant: “Systematics of Telenominae (Hymenoptera): Oriental and Australian *Trissolcus*”, \$82,000.
- 1986: Indo-American Fellowship for Advanced Research in India, Council for the International Exchange of Scholars (award received but not accepted).
- 1985–1986: Principal Investigator, Ohio State University College of Biological Sciences Small Grant: “Leg Structure/Function and the Phylogeny of Hymenoptera.”
- 1984-1985: Co-Principal Investigator, Smithsonian Institution Foreign Currency Grant:

"Systematics of Indian Telenominae and Perilampidae (Hymenoptera)," \$15,445
1982-1984: Principal Investigator, National Science Foundation, Systematic Biology Program
Grant: "Systematics of Egg Parasitoids of the Subfamily Telenominae (Hymenoptera:
Scelionidae)," \$55,000.
1979-1980: Principal Investigator, National Science Foundation Doctoral Dissertation Grant:
"Systematics of Nearctic *Telenomus* (Hymenoptera: Scelionidae)."
1976-1980: National Science Foundation Graduate Fellowship.

Professional Society Membership

Fellow, American Association for the Advancement of Science
Fellow, Royal Entomological Society
Entomological Society of America
Entomological Society of Canada
Entomological Society of Washington
International Society of Hymenopterists
Society for Systematic Biology
Taxonomic Database Working Group

Research Interests

Systematics, biology, and evolution of the parasitic Hymenoptera
Biodiversity informatics
Geographic information systems
Phylogeny of insects
Biogeography of the Neotropics
Comparative and functional morphology

International Activities (not including Canada)

2016: Research visit to Naturhistoriska Riksmuseet, Stockholm, Sweden
2013: Research visit to Universidade Federal de Espírito Santo, Vitória, ES, Brazil.
2012: Research visit to South China Agricultural University, Guangzhou, Guangdong, Peoples
Republic of China.
2011: Field work in Gunung Mulu National Park, Sarawak, Malaysia.
2010: Research visit to Università di Perugia, Italy; Africa Museum, Tervuren, Belgium.
2009: Research visit to the University of Adelaide; CSIRO Australian National Insect Collection,
Canberra, Australia; Sarawak Forestry, Kuching, Malaysia. Field work in Gunung Mulu
National Park, Sarawak, Malaysia.
2008: Research visit to Taiwan Agricultural Research Institute, Wufeng, Taiwan; Iziko Museums
of Cape Town, South Africa; Muséum National d'Histoire Naturelle, Paris.
2007: Research visit to Muséum National d'Histoire Naturelle, Paris; Istituto di Entomologia
Agraria, Università di Perugia, Italy; TaxonX collaborators meeting, Rome, Italy; Fossils
X3 meeting, Vitoria-Gasteiz, Spain.
2006: Research visits to South African National Insect Collection, Pretoria; Iziko South African
Museum, Cape Town; field work in Eastern Cape Province; National Museum of Ireland,
Dublin; The Natural History Museum, London, UK; Hungarian National Museum of
Natural History, Budapest; Institut Royal des Sciences Naturelles, Brussels; Africa
Museum, Tervuren, Belgium.
2005: Research visits to Zoological Institute, Russian Academy of Sciences; Schmalhausen
Institute, Ukrainian Academy of Sciences; Muséum National d'Histoire Naturelle, Paris,
France.

- 2005: Organized and hosted Experts Workshop on Databasing Entomology Collections, sponsored by the Global Biodiversity Information Facility.
- 2004: Field work in Daintree National Park and Danbulla State Forest, Queensland, Australia.
- 2004: Research visits to Queensland Museum, Brisbane; South Australian Museum, Adelaide; University of Adelaide, Adelaide; Australian National Insect Collection Canberra, Australia.
- 2003: Research visit to Universidade Federal do Paraná, Curitiba, Brazil.
- 2003: Advisory panel for Global Biodiversity Information Facility program in Digitization of Natural History Collections grants, Madrid.
- 1999: Research visit to Australian National Insect Collection, Canberra.
- 1997: Research visit to The Natural History Museum, London.
- 1995-1996: Survey of terrestrial insects, particularly parasitic Hymenoptera, at Serra da Mesa, Goiás, Brazil, in collaboration with the Universidade Católica de Goiás, Museu de Zoologia da Universidade de São Paulo, and FURNAS - Centrais Elétricas S.A.
- 1994: Museum work at Museo del Instituto de Zoología Agrícola, Universidad Central de Venezuela, Maracay; field work at Estación Biológica Rancho Grande, Parque Nacional Henri Pittier, Venezuela.
- 1992: Research development trip to state of São Paulo, Brazil: visit Museu de Zoologia da Universidade de São Paulo, Estação Biológica de Boracéia, Itirapina.
- 1991: Proposal development trip to the Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil to develop joint proposal to survey arthropod biodiversity of the forests of the Amazon Basin of Brazil.
- 1987: Museum work in Australia: Australian National Insect Collection, CSIRO, Canberra; South Australian Museum, Adelaide; Waite Agricultural Research Institute, Glen Osmond; Queensland Department of Primary Industries, Brisbane (Indooroopilly); field work in rain forests of northern Queensland.
- 1985: Research development trip to India, visiting Commonwealth Institute of Biological Control, Bangalore; Mudigere Regional Research Station; University of Calicut; field work in southern India: Western Ghats, Nilgiris, Anaimalai Hills.
- 1984: Study and collaboration at British Museum (Natural History), London; Istituto di Entomologia Agraria, Università di Perugia, Italy.
- 1983: Field and museum work at Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil.
- 1982: Field work in Jamaica, principally eastern end of island and Blue Mountains.
- 1979: Study visit to entomological collections of the British Museum (Natural History), London; Hope Museum, Oxford University; Lund University, Sweden; Zoologisches Institut, Leningrad; Hungarian National Museum of Natural History, Budapest; Naturhistorisches Museum, Vienna.

Presentations

- Johnson, N.F., A.D. Austin, H. Chen, Z. Lahey, and L. Musetti. "Return on investment: systematics and evolution of Platygastridae in the 21st Century." Annual meeting of the Entomological Society of America, Saint Louis, MO, 19 November, 2019.
- Johnson, N.F., L. Musetti and Z. Lahey. "New generic concepts in the Platygastridae pipeline (Hymenoptera)." Annual meeting of the Entomological Society of America, Saint Louis, MO, 19 November, 2019.
- King, K. and N.F. Johnson. "Exploring mechanisms of parasitoid diversification through the lens of chemosensory speciation." Annual meeting of the Entomological Society of America, Saint Louis, MO, 18 November, 2019.
- Lahey, Z. and N.F. Johnson. "Phylogenomics of Platygastridae (Hymenoptera: Proctotrupomorpha)." Annual meeting of the Entomological Society of America, Saint Louis, MO, 17 November, 2019.

- Lahey, Z., H. Chen and N.F. Johnson. "Phylogenomics of Platygastroidea (Hymenoptera: Proctotrupomorpha)." Joint meeting of the Entomological Society of America and the Entomological Society of Canada, Vancouver, Canada, 11 November, 2018.
- Musetti, L., N. Molotievskiy and N.F. Johnson. "A customizable framework to integrate undergraduate research and natural history collections." Joint meeting of the Entomological Society of America and the Entomological Society of Canada, Vancouver, Canada, 14 November, 2018.
- Chen, H., G. De Souza Da Silva, S. M. Jahnke and N.F. Johnson. "Phylogeography of the egg parasitoid *Telenomus podisi* (Hymenoptera, Scelionidae) reveals high cryptic diversity." International Congress of the International Society of Hymenopterists, Matsuyama, Japan, 23 July, 2018.
- Chen, H., E. Talamas, Z. Lahey and N. Johnson. "Chemosensory receptor evolution in the parasitic wasp *Trissolcus basalis* (Hymenoptera: Platygasteridae) and its implications for speciation." Annual Meeting of the Entomological Society of America, Denver, CO, 06 November, 2017.
- Lahey, Z., H. Chen and N. Johnson. "Phylogenomics of Platygastroidea (Hymenoptera: Proctotrupomorpha)." Annual Meeting of the Entomological Society of America, Denver, CO, 06 November, 2017.
- Molotievskiy, N., L. Musetti and N. Johnson. "The beetle heritage of the Triplehorn Insect Collection: cataloguing the primary types of Coleoptera." Annual Meeting of the Entomological Society of America, Denver, CO, 08 November, 2017.
- Johnson, N.F. "Data management tools facilitate biodiversity discovery and description." Annual Midwestern Conference of Parasitologists, Wilmington, OH, 09 June, 2017.
- Johnson, N.F. "The intersection of data domains underlying insect systematics. Case studies in parasitic Hymenoptera." International Congress of Entomology, Orlando, FL. 26 September, 2016.
- Matsuo, K., M. Tomita, T. Honda, A. Takahashi, S. Furihata, T. Mita, K. Tabuchi, K. Itoyama, M. Toyama, N.F. Johnson and Y. Hirose. "Egg parasitoids of stink bugs infesting fruit trees in Japan, with special reference to the egg parasitoid guild of *Halyomorpha halys* (Hemiptera: Pentatomidae)." International Congress of Entomology, Orlando, FL, 27 September 2016.
- Chen, H., N. Johnson and A. Austin. "Evolution and phylogeny of the parasitoid subfamily Scelioninae (Hymenoptera: Platygastroidea)." International Congress of Entomology, Orlando, FL. 29 September 2016.
- Talamas, E., M.L. Buffington, N.F. Johnson and M.-C. Bon. "Systematics of Holarctic *Trissolcus* Ashmead, natural enemies of BMSB." International Congress of Entomology, Orlando, FL. 26 September 2016.
- Nesheim, K.C. and N.F. Johnson. "Digitization: What is it good for? Or, how biodiversity informatics can inform us about the inherent and social aspects of entomology." International Congress of Entomology, Orlando, FL. 26 September 2016.
- Johnson, N.F. "A comparative study of the growth in knowledge of biodiversity, taxonomy and systematics in the order Hymenoptera." Entomological Society of America Meetings, Minneapolis, MN, 18 November, 2015.
- Nesheim, K., L. Masner and N.F. Johnson. "A MOBAT analysis of species diversity in the *Phanuromyia galeata* group (Hymenoptera: Platygasteridae). Entomological Society of America Meetings, Minneapolis, MN, 16 November, 2015.
- Chen, H., L. Masner and N.F. Johnson. The New World species of the genus *Calliscelio* (Hymenoptera: Platygasteridae), parasitic wasps of cricket eggs (Orthoptera: Gryllidae). Entomological Society of America Meetings, Minneapolis, MN, 16 November, 2015.
- Musetti, L., S. Hemly and N.F. Johnson. "Quantification of the costs of insect collection curation." Entomology Collections Network Meeting, Minneapolis, MN. 14 November, 2015.

- Buffington, M.L., E. Talamas, K.A. Hoelmer, C. Dieckhoff and N. Johnson. "Systematics and biological control: past meets present in project *Trissolcus*. Part I." Entomological Society of America Meetings, Portland, OR. 16 November, 2014.
- Talamas, E., M. Buffington and N. Johnson. "*Trissolcus* as biological control agents of brown marmorated stink bug: II. Species-level taxonomy." Entomological Society of America Meetings, Portland, OR. 16 November, 2014.
- Johnson, N.F., L. Musetti, V. Zeinner, S. Hemly and J. Cora. "Phylogenetic concentration and provenance of host data for parasitic wasps of the superfamily Platygastroidea (Hymenoptera)." Entomological Society of America Meetings, Portland, OR. 19 November, 2014.
- Johnson, N.F. and L. Musetti. "World genera of aquatic Platygastriidae (Hymenoptera: Platygastroidea)." Entomological Society of America Meetings, Austin, TX. 13 November, 2013.
- Valerio, A.A., L. Musetti and N.F. Johnson. "Species revision of the colorful genus *Chromoteleia* Ashmead." Entomological Society of America Meetings, Austin, TX. 13 November, 2013.
- Johnson, N.F. "Hymenoptera Name Server data model and services." AntCat Workshop, Romberg Tiburon Center for Environmental Studies, San Francisco State University and California Academy of Sciences, 25 August, 2013.
- Johnson, N.F. "From cottage industry to the information age: large scale taxonomy and the Platygastroidea Planetary Biodiversity Inventory." Universidade Federal de Espírito Santo, Vitória, Brazil, 29 July, 2013.
- Johnson, N.F. "Publishing highly structured data. pro-iBiosphere meeting, Berlin, Germany, 23 May, 2013.
- Johnson, N.F. "Hymenoptera Name Server." pro-iBiosphere meeting, Berlin, Germany, 22 May, 2013.
- Buffington, M., M.W. Gates and N.F. Johnson. "From corniculae to frontal shelves: a phrenological odyssey through the parasitic Hymenoptera. Entomological Society of America Meetings, Knoxville, TN. 14 November, 2012.
- Johnson, N.F., A.A. Valerio, L. Musetti, C. Taekul, E. Talamas, A. Polaszek, A.D. Austin and J. Cora. "Pattern of host shifts among parasitoid wasps as indicated by a combined morphology and molecular phylogenetic analysis of the superfamily Platygastroidea (Hymenoptera). Entomological Society of America Meetings, Knoxville, TN. 13 November, 2012.
- Musetti, L., S. Hemly and N.F. Johnson. "Quantification of the costs of insect collection curation." Entomological Society of America Meetings, Knoxville, TN. 13 November, 2012.
- Talamas, E. and N.F. Johnson. "Olfactory and gustatory receptor genes in *Trissolcus basalis*." International Congress of Entomology, Daegu, Korea. 23 August, 2012.
- Johnson, N.F. "vSysLab: A platform for development of monographs for the digital future of taxonomy." International Congress of Entomology, Daegu, Korea. 20 August, 2012.
- Musetti, L., N.F. Johnson and L. Masner. "The armilla group of genera of egg parasitoids in the family Platygastriidae (Hymenoptera)." Entomological Society of America Meetings, Reno, NV. 16 November, 2011.
- Johnson, N.F., J. Cora, E. Talamas, A.A. Valerio, A.D. Austin, H. Klompen and F. Bin. "The genome of the egg-parasitoid wasp *Trissolcus basalis* (Wollaston) (Hymenoptera: Platygastriidae)." Entomological Society of America Meetings, Reno, NV. 16 November, 2011.
- Austin, A.D., N.F. Johnson, A.A. Valerio, A. Polaszek, H. Klompen, E. Talamas and C. Taekul. "Phylogeny of parasitoid wasps of the superfamily Platygastroidea (Hymenoptera): an expanded analysis, evolution of host relationships, and higher classification." Entomological Society of America Meetings, Reno, NV. 15 November, 2011.
- Johnson, N.F. "Application and leverage of emerging data standards in taxonomic software applications." Entomological Society of America Meetings, Reno, NV. 15 November, 2011.

- Talamas, E. and N. Johnson. "Predicted gustatory receptor genes in *Trissolcus basalus* (Hymenoptera: Platygasteridae)." Entomological Society of America Meetings, Reno, NV. 14 November, 2011.
- Taekul, C. and N.F. Johnson. "Molecular data indicate that Telenominae is not monophyletic (Hymenoptera: Platygasteridae)." Entomological Society of America Meetings, Reno, NV. 14 November, 2011.
- Johnson, N.F. "Is it time to reach for the cloud(s)? A service provider approach to collection databasing." Entomological Collections Network Meeting, Reno, NV. 12 November, 2011.
- Darling, D.C. and N.F. Johnson. "Insect biodiversity studies in Gunung Mulu National Park, Sarawak with reference to the Platygasteroidea Planetary Biodiversity Inventory project." Borneo-Biodiversity, invited presentation at symposium hosted by the Natural History Museum, London, UK; 6 July, 2011.
- Johnson, N.F. "From cottage industry to the information age: large scale taxonomy and the Platygasteroidea Planetary Biodiversity Inventory." University of Arizona, School of Information Resources and Library Science, Tucson, AZ; 24 March, 2011.
- Johnson, N.F. "Cybertaxonomy for Platygasteroidea PBI project." Royal Ontario Museum, Department of Natural History, Toronto, Canada; 31 January, 2011.
- Johnson, N.F. and L. Musetti. "Applications of Digitized Specimen Records." Entomological Collections Network Meeting, San Diego, CA. 11 December, 2010.
- Johnson, N.F., L. Musetti and L. Masner. "*Howdenium* and *Jarmilina*: two new genera of Afrotropical Scelioninae (Hymenoptera: Platygasteroidea)". Entomological Society of America Meetings, San Diego, CA. 14 December, 2010.
- Musetti, L., N.F. Johnson and S. Hemly. "Managing specimen processing in a large-scale collaborative taxonomic project." Entomological Society of America Meetings, San Diego, CA. 15 December, 2010.
- Taekul, C., N.F. Johnson and A.A. Valerio. "Molecular evolution of the subfamily Telenominae (Hymenoptera: Platygasteridae)." Entomological Society of America Meetings, San Diego, CA. 13 December, 2010.
- Talamas, E., N.F. Johnson and L. Masner. "Phylogeny and taxonomic status of the *Paridris* complex." Entomological Society of America Meetings, San Diego, CA. 13 December, 2010.
- Brown, S., K. Kamminga, J.A. Davis, G. Tate, S. Micinski, C. Cookson and N.F. Johnson. "Egg parasitoid survey of the redbanded stink bug (*Piezodorus guildinii*) in Louisiana soybeans." Entomological Society of America Meetings, San Diego, CA. 15 December, 2010.
- Johnson, N.F., J. Cora and L. Musetti. "HOL app for taxonomy." Taxonomic Databases Working Group/Biodiversity Informatics Standards Annual Conference, Woods Hole, MA, 26 Sept-1 October, 2010.
- van Noort, S., L. Masner, O.A. Popovici, C. Taekul and N.F. Johnson. The maritime parasitoid wasp *Echthrodesis lamorali* Masner (Hymenoptera, Platygasteridae, Scelionidae). 7th International Congress of Hymenopterists, Kőszeg, Hungary; 23 June, 2010.
- Johnson, N.F. and L. Musetti. Progress in taxonomy and systematics of Platygasteroidea: new taxa, tools, and troubles. 7th International Congress of Hymenopterists, Kőszeg, Hungary; 23 June, 2010.
- Taekul, C., N.F. Johnson and A.A. Valerio. Molecular evolution of the subfamily Telenominae (Hymenoptera: Platygasteridae). 7th International Congress of Hymenopterists, Kőszeg, Hungary; 23 June, 2010.
- Talamas, E.J., L. Masner and N.F. Johnson. Phylogeny and taxonomic status of the *Paridris* (Platygasteridae) complex. 7th International Congress of Hymenopterists, Kőszeg, Hungary; 23 June, 2010.
- Johnson, N.F., J. Cora and L. Musetti. From paper monographs to knowledge systems: a new paradigm for taxonomic research. Annual Meeting of the Entomological Society of America, Indianapolis, IN; 16 December, 2009.

- Johnson, N.F. Lubomir Masner's career and influence on the systematics of parasitic Hymenoptera – culminating in the Platygastroidea PBI. Annual Meeting of the Entomological Society of America, Indianapolis, IN; 15 December, 2009.
- Musetti, L., N.F. Johnson and L. Masner. The enigmatic genus *Orwellium*: key to unravelling relationships within the superfamily Platygastroidea (Hymenoptera)? Annual Meeting of the Entomological Society of America, Indianapolis, IN; 15 December, 2009.
- Valerio, A.A., L. Masner, L. Musetti, N.F. Johnson and M.J. Yoder. From Namangan to Efogi on four wings and six legs: taxonomic revision of the genus *Scelio* Latreille for the Oriental region (Hymenoptera: Platygastriidae). Annual Meeting of the Entomological Society of America, Indianapolis, IN; 15 December, 2009.
- Taekul, C. and N.F. Johnson. World species exploration of the genus *Oxyteleia* Kieffer (Hymenoptera: Platygastriidae). Annual Meeting of the Entomological Society of America, Indianapolis, IN; 14 December, 2009.
- Talamas, E. and N.F. Johnson. *Paridris* and *Trichoteleia*: Pandora's taxonomic box. Annual Meeting of the Entomological Society of America, Indianapolis, IN; 14 December, 2009.
- Johnson, N.F. Facility improvement and status of the C.A. Triplehorn Insect Collection at The Ohio State University. Annual Meeting of the Entomological Collections Network, Indianapolis, IN; 12 December, 2009.
- Johnson, N.F. A virtual co-laboratory for large-scale taxonomic research. Division of Entomology, Commonwealth Scientific Industrial and Research Organization, Canberra, ACT, Australia; 30 April, 2009.
- Johnson, N.F. A virtual co-laboratory for large-scale taxonomic research. School of Earth and Environmental Sciences, The University of Adelaide, South Australia, Australia; 20 April, 2009.
- Johnson, N.F. A virtual co-laboratory for large-scale taxonomic research. Taxonomy Research Information Network Annual Research Forum, Murrumbidgee Resort, South Durras, New South Wales, Australia; 16 April, 2009.
- Musetti, L. and N.F. Johnson. Revision of the species of the Neotropical genus *Pseudoheptascelio* Szabó (Hymenoptera: Platygastriidae), parasitoids of eggs of Acrididae (Orthoptera). Annual Meeting of the Entomological Society of America, Reno, NV; 19 November, 2008.
- Johnson, N.F., L. Musetti, M.J. Yoder, A.A. Valerio, and E. Talamas. Systematics of world species of the genus *Scelio* (Hymenoptera: Platygastriidae), egg parasitoids of Acrididae (Orthoptera). Annual Meeting of the Entomological Society of America, Reno, NV; 19 November, 2008.
- Taekul, C. and N.F. Johnson. The species of the Old World genus *Platyscelio* Kieffer (Hymenoptera: Platygastriidae). Annual Meeting of the Entomological Society of America, Reno, NV; 19 November, 2008.
- Johnson, N.F. Questioning the current approach to publication: an entomologist's perspective. Annual Meeting of the Entomological Society of America, Reno, NV; 19 November, 2008.
- Talamas, E. and N.F. Johnson. A Madagascan explosion of species: The genus *Trichoteleia* (Hymenoptera: Platygastriidae). Annual Meeting of the Entomological Society of America, Reno, NV; 17 November, 2008.
- Yoder, M.J. and N.F. Johnson. Describing *lots* of species: insights from the platygastroid planetary biodiversity inventory. Annual Meeting of the Entomological Society of Canada, Ottawa, Ont; 22 October, 2008.
- Johnson, N.F. Future taxonomy today: new tools applied to accelerate the taxonomic process. International Congress of Zoology, Paris, France; 27 August, 2008.
- Agosti, D., T. Catapano, N.F. Johnson, R. Pyle and Z.-Q. Zhang. 1758: Binomen; 2008: Open, enhanced descriptions. International Congress of Zoology, Paris, France; 27 August, 2008.

- Austin, A., N.F. Johnson, H. Klompen, A. Polaszek, A. Valerio and M. Yoder. Molecular phylogeny of the Platygastroidea: the big leap to a robust classification. International Congress of Entomology, Durban, South Africa; 10 July, 2008.
- Talamas, E. and N.F. Johnson. Species, morphology, and relationships of the African genus *Oreiscelio* Kieffer (Hymenoptera: Scelionidae). International Congress of Entomology, Durban, South Africa; 9 July, 2008.
- Johnson, N.F. The Hymenoptera Name Server. International Congress of Entomology, Durban, South Africa; 8 July, 2008.
- Johnson, N.F., A. Austin, and L. Musetti. Data management and taxonomic applications for the Platygastroidea Global Biodiversity Inventory. International Congress of Entomology, Durban, South Africa; 7 July, 2008.
- Johnson, N.F. Accelerating the taxonomic process: discovery and documentation of diversity of the parasitoid wasp superfamily Platygastroidea (Hymenoptera). Division of Applied Zoology, Taiwan Agricultural Research Institute, Wufeng, Taiwan; 27 May, 2008.
- Johnson, N.F. Accelerating the taxonomic process: discovery and documentation of diversity of the parasitoid wasp superfamily Platygastroidea (Hymenoptera). Department of Entomology, National Taiwan University, Taipei, Taiwan; 16 May, 2008.
- Johnson, N.F. The Platygastroidea Planetary Biodiversity Inventory. Canadian National Collection of Insects, Arachnids and Nematodes, Agriculture Canada, Ottawa; 21 January, 2008.
- Musetti, L., N.F. Johnson, E. Talamas, and L. Masner. Neotropical species of the genus *Scelio* (Hymenoptera: Scelionidae), parasitoids of grasshopper and locust eggs (Orthoptera: Acrididae). Annual Meeting of the Entomological Society of America, San Diego, CA; 12 December, 2007.
- Johnson, N.F. Platygastroidea PBI: building efficiency into large-scale taxonomic work. Annual Meeting of the Entomological Society of America, San Diego, CA; 11 December, 2007.
- Johnson, N.F. Hit the road, Jack: Trials and tribulations of imaging type specimens in the museums around the world. Annual Meeting of the Entomological Society of America, San Diego, CA; 10 December, 2007.
- Talamas, E. and N.F. Johnson. Species and relationships of the Afrotropical genus *Oreiscelio* Kieffer (Hymenoptera: Scelionidae). Annual Meeting of the Entomological Society of America, San Diego, CA; 10 December, 2007.
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- Johnson, N. F. "Uso da informática na taxonomia." Departamento de Zoologia, Universidade Federal do Paraná, Curitiba, Brazil; 24 November, 2003.
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- Johnson, N. F. and L. Musetti. "Mapping the distribution of species." Global Land Cover Data for Biodiversity Assessments workshop sponsored by NASA and Conservation International, Washington, DC; 18-19 February, 1999.
- Johnson, N. F. and L. Musetti. "Data warehousing architecture and tools for Hymenoptera biodiversity informatics." 4th International Hymenopterists Conference, Canberra, Australia; 9 January, 1999.
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- Johnson, N. F. "Web gateways to collection databases." Annual Meeting of the Entomology Collections Network, University of Louisville, KY; 7 December, 1996.
- Ejchel, F. and N. F. Johnson. "Geographic information system technology applied to identification of areas of endemism." National Meeting of the Entomological Society of America, Louisville, KY; 9 December, 1996.
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- Johnson, N. F. "Systematics, Universities, and the Web: Scouts for the Cavalry"; Meeting of the Eastern Branch of the Entomological Society of America; Williamsburg, VA; 27 February, 1996.
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- Johnson, N. F. "Geographic Information Systems and Systematic Entomology: An Overview"; Entomology Collections Network 1995 Meetings; Las Vegas, NV; Dec. 15, 1995.
- Johnson, N. F. "Areas of Endemism and Geographic Information Systems"; Third Conference of the International Society of Hymenopterists; Davis, CA; 1995.
- Johnson, N. F. "Variation in male genitalia of *Merope tuber* Newman (Mecoptera: Meropeidae);" National Meeting of the Entomological Society of America; Dallas, TX; 1994.
- Johnson, N. F. "The Ohio State University Insect Collection;" Meeting of Ohio Systematists, 15 October, 1994.
- Johnson, N. F. "Arthropod Biodiversity: A Tiger by the Tail;" invited presentation, Department of Zoology, Brigham Young University; 2 May, 1994.
- Johnson, N. F., G. Hatosky, M. Hawkins, and T. Mitchell. "Biodiversity, databases, and GIS: Ohio Orthoptera as a model;" National Meeting of the Entomological Society of America; Indianapolis, IN, 1993.
- Johnson, N. F. "New evidence for relationships in the Telenominae (Hymenoptera: Scelionidae);" National Meeting of the Entomological Society of America; San Antonio, TX, 1989.
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- Johnson, N. F. "Host relationships and evolution in the Telenominae (Scelionidae);" invited symposium presentation, XVIII International Congress of Entomology, Vancouver, BC, Canada, 1988.
- Johnson, N. F. "Systematics of Australasian *Trissolcus* (Hymenoptera: Scelionidae);" National Meeting of the Entomological Society of America; Boston, MA, 1987.
- Johnson, N. F. "Revolutions in relationships of Hymenoptera;" seminars presented at CSIRO, Canberra; Waite Agricultural Research Institute, Glen Osmond, South Australia; Queensland Department of Primary Industries, Brisbane, March, April, 1987.
- Johnson, N. F. "Host-related antennal variation in the polyphagous egg-parasitoid *Telenomus alsophilae* Viereck (Hymenoptera: Scelionidae);" National Meeting of the Entomological Society of America; Reno, NV, 1986.
- Johnson, N. F. "An Indian Experience: Field work in southern India;" Annual Meeting International Society of Hymenopterists; Hollywood, FL, 1985.
- Johnson, N. F. "Systematics of New World *Trissolcus* (Hymenoptera: Scelionidae);" National Meeting of the Entomological Society of America; Hollywood, FL, 1985.
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- Johnson, N. F. "Mid-coxal articulations and the phylogeny of the Hymenoptera;" invited symposium presentation, National Meeting of the Entomological Society of America; Detroit, MI, 1983.
- Johnson, N. F. "Species groups of Nearctic *Telenomus* (Hymenoptera: Scelionidae);" National Meeting of the Entomological Society of America; Toronto, Ontario; 1982.
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Electronic Products

- 2001–present. Hymenoptera Name Server. Available at URL: <http://hns.osu.edu>
- 1997–present. Hymenoptera On-Line Database. Available at URL: <http://hol.osu.edu>

Professional Service

Professional Societies

- Endowment Committee, International Society of Hymenopterists (2017–present).
- Chair, Planning Committee for the “Beyond the Box Digitization Competition,” a \$1 million prize competition conducted by the American Institute of Biological Sciences and funded by the National Science Foundation (2014).
- Member of Taxonomic databases and digital publishing advisory panel for Pensoft Publishers, 2008.
- Chair, Distinguished Research Award Committee, International Society of Hymenopterists (2014)
- Chair, Nominating Committee, International Society of Hymenopterists (2014)
- Standing Committee on Strategic Planning, Entomological Society of America (2003–2004)
- Special Committee on Information Technologies, Entomological Society of America (2000–2002).
- Editorial Board, *Annals of the Entomological Society of America* (1999–2000).
- Chair, Standing Committee on Systematic Resources, Entomological Society of America (2000).
- Standing Committee on Systematic Resources, Entomological Society of America (1997–

2000).
Steering Committee, Entomology Collections Network (1996–1998).
Develop and implement World Wide Web pages for the International Society of Hymenopterists Chair, Section A (Systematics, Morphology, & Evolution), Entomological Society of America (1992).
1992 Program Committee for Annual National Meeting of the Entomological Society of America. Secretary, Section A (Systematics, Morphology, & Evolution), Entomological Society of America (1990).

Granting Agencies

National Science Foundation Advisory Panel for Systematic Biology; 5–7 October, 2009.
Organizer, Global Biodiversity Information Facility, Experts Workshop on Databasing Entomology Collections, 24–25 February, 2005.
Global Biodiversity Information Facility, Digitization of Natural History Collections grant review panel, 6–8 June, 2003.
National Science Foundation Advisory Panel for Biological Databases and Informatics; 21–22 October, 1999.
National Science Foundation Advisory Panel for Systematic Biology, Partnerships in Enhancing Expertise in Taxonomy; 14–16 May, 1997.
National Science Foundation Advisory Panel for Database Activities in Biology; 28–30 April, 1997.
National Science Foundation Advisory Panel for Systematic Biology; 17–19 April, 1996.
National Science Foundation Advisory Panel for BSR Postdoctoral and Midcareer Fellowship Programs; 2–4 February, 1994.
National Science Foundation Advisory Panel for BSR Postdoctoral and Midcareer Fellowship Programs; 1–3 February, 1993.
National Science Foundation Advisory Panel for BSR Postdoctoral and Midcareer Fellowship Programs; 22–23 January, 1992.
Advisory Panel for U.S. Agency for International Development Program in Science and Technology Cooperation (PSTC), U.S.-Israeli Cooperative Development Research Program; 25 October, 1991.
National Science Foundation Advisory Panel for BSR Postdoctoral and Midcareer Fellowship Programs; 28 April–1 May, 1991.

Ad hoc reviewer for the National Science Foundation, International Science Foundation, U.S. Department of Agriculture Cooperative State Research Service National Research Initiative Competitive Grants Program, Australian Biological Resources Study.

Editorial Service to Professional Publications

Subject editor for *ZooKeys*, an open-access journal for biodiversity research, 2008–present.
Guest editor, *Northeastern Naturalist*, 2005.
Focus Group for development of a new general biology textbook for majors, Prentice-Hall Publishing, Tempe, AZ; 16 April, 1994.
Focus Group for development of 3rd edition of P. Raven & G. B. Johnson, *Biology*, Times Mirror/Mosby College Publishing, St. Louis; April, 1990.
International Society of Hymenopterists, Publication Committee; 1987.
Co-Editor, PROCTOS (newsletter for researchers in systematics of Proctotrupoidea): 1981–1994.
Co-Editor, Ohio Biological Survey Bulletin, Knull Series (devoted to the publication of systematic monographs in entomology): 1981–2000.

Manuscript reviewer for *Acta Zoologica Academiae Scientiarum Hungaricae*; *American Museum Novitates*, *Annals of the Entomological Society of America*; *Australian Journals of Scientific Research*; *Biological Control*; *Canadian Journal of Zoology*; *The Canadian Entomologist*; *Cladistics*; *Cretaceous Research*, *Entomological News*; *European Journal of Taxonomy*; *Geodiversitas*; *Great Lakes Entomologist*; *Invertebrate Systematics*; *Journal of Hymenoptera Research*; *Journal of Natural History*, *Journal of the New York Entomological Society*; *Proceedings of the Entomological Society of Washington*; *Technical Bulletin Mississippi Agricultural and Forestry Experiment Station, Museum Series*; *Urban Ecosystems*, *Zoologische Mededelingen*; *Zoologische Verhandelingen*; *Zootaxa*.

Other Professional Service

Member of Board of Directors of *Plazi*, a non-profit association supporting the development of persistent and openly accessible digital taxonomic literature.

Panel member, Office of Scientific Quality Review, Agricultural Research Service, U.S. Department of Agriculture, 10 December, 2004.

External review committee for Essig Museum of Entomology, University of California, Berkeley; 12–13 April, 1999.

Member of Board of Directors and Chair of Information Committee of *Discover Life in America*, a non-profit organization conducting the All Taxa Biodiversity Inventory of the Great Smoky Mountains National Park; 1998–2002.

External Reviewer for Ph.D. dissertation for Mohammed Iqbal, Department of Applied and Molecular Ecology, University of Adelaide, 1998.

Cooperating Scientist, Insect Identification and Beneficial Insect Introduction Institute, U.S. Department of Agriculture.

External Reviewer for Ph.D. examination for G.A.P. Gibson, Department of Entomology, University of Alberta; Candace Ann Owen, Rhodes University, Grahamstown, South Africa