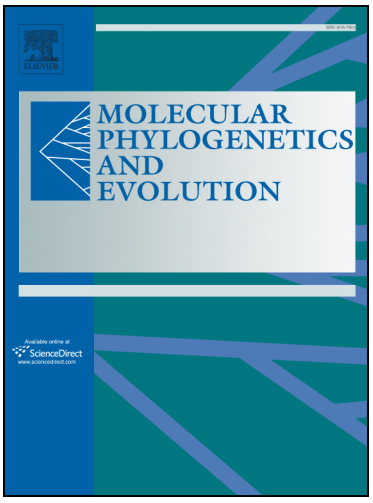

Anchored phylogenomics unravels the evolution of spider flies (Diptera, Acroceridae) and reveals discordance between nucleotides and amino acids

Jessica P. Gillung, Shaun L. Winterton, Keith M. Bayless, Ziad Khouri, Marek L. Borowiec, David Yeates, Lynn S. Kimsey, Bernhard Misof, Seunggwan Shin, Xin Zhou, Christoph Mayer, Malte Petersen, Brian M. Wiegmann

PII: S1055-7903(18)30223-9
DOI: https://doi.org/10.1016/j.ympev.2018.08.007
Reference: YMPEV 6254

To appear in: *Molecular Phylogenetics and Evolution*

Received Date: 5 April 2018
Revised Date: 3 August 2018
Accepted Date: 7 August 2018

Please cite this article as: Gillung, J.P., Winterton, S.L., Bayless, K.M., Khouri, Z., Borowiec, M.L., Yeates, D., Kimsey, L.S., Misof, B., Shin, S., Zhou, X., Mayer, C., Petersen, M., Wiegmann, B.M., Anchored phylogenomics unravels the evolution of spider flies (Diptera, Acroceridae) and reveals discordance between nucleotides and amino acids, *Molecular Phylogenetics and Evolution* (2018), doi: https://doi.org/10.1016/j.ympev.2018.08.007

Anchored phylogenomics unravels the evolution of spider flies (Diptera, Acroceridae) and reveals discordance between nucleotides and amino acids

Jessica P. Gillung[a,b,*], Shaun L. Winterton[b], Keith M. Bayless[c], Ziad Khouri[a], Marek L. Borowiec[d], David Yeates[e], Lynn S. Kimsey[a], Bernhard Misof[f], Seunggwan Shin[g], Xin Zhou[h], Christoph Mayer[f], Malte Petersen[f], Brian M. Wiegmann[i]

[a]Bohart Museum of Entomology, University of California, One Shields Ave., Davis, CA 95616, USA
[b]California State Collection of Arthropods, 3294 Meadowview Rd, Sacramento, CA 95832, USA
[c]California Academy of Sciences, 55 Music Concourse Drive, San Francisco, CA 94118, USA
[d]School of Life Sciences, Social Insect Research Group, Arizona State University, Tempe, AZ 85287, USA
[e]National Research Collections Australia, Clunies Ross Street, Acton, ACT 2601**,** GPO Box 1700, Canberra, ACT 2601, Australia
[f]Center for Molecular Biodiversity Research, Zoological Research Museum Alexander Koenig, 53113 Bonn, Germany
[g]Department of Biological Sciences, University of Memphis, 3700 Walker Avenue, Memphis, TN 38152, USA
[h]Department of Entomology, China Agricultural University, Beijing, China 100193
[i]Department of Entomology & Plant Pathology, North Carolina State University, 3114 Gardner Hall, Raleigh, NC 27695-7613, USA

* Corresponding author.
Email address: jpgillung@ucdavis.edu (J.P. Gillung).