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Mallet J, Willmott K (2002) Taxonomy: Renaissance or Tower of Babel? Trends in Ecology and Evolution 18: 57–59. [https://doi.org/10.1016/S0169-5347\(02\)00061-7](https://doi.org/10.1016/S0169-5347(02)00061-7)

Orr AG (2006) Odonata in Bornean tropical rain forest formations: Diversity, endemicity and applications for conservation management. In: Cordero Rivera A (Ed.) Forest and Dragonflies. Fourth WDA International Symposium of Odonatology, Pontevedra (Spain), July 2005. Pensoft Publishers, Sofia-Moscow, 51–78.

Mayr E (2000) The biological species concept. In: Wheeler QD, Meier R (Eds) Species Concepts and Phylogenetic Theory: A Debate. Columbia University Press, New York, 17–29.

Gouix N, Klimaszewski J (2007) Catalogue of Aleocharine Rove Beetles of Canada and Alaska. Pensoft Publishers, Sofia-Moscow, 166 pp.

International Commission on Zoological Nomenclature (1999) International code of zoological nomenclature. Fourth Edition. London: The International Trust for Zoological No- menclature.

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**Front cover photo:** Female individual of *Sanaa regalis* (Brunner von Wattenwyl, 1895) from Tanahun. Photograph by Saján K.C. and Anisha Sapkota. [Article this issue, Sagan and Sapkota, pp. 119–124.]