

New specimens of zygodactylid birds from the middle Eocene of Messel, with description of a new species of *Primozygodactylus*

Gerald Mayr and Nikita Zelenkov

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Representatives of the avian taxon Zygodactylidae are among the most abundant small arboreal birds in the early

Palaeogene of the Northern Hemisphere. Still, however, the osteology of these birds, which have recently been shown to be the sister taxon of the Passeriformes, is only incompletely known. Here we describe a new species of *Primozygodactylus* from the middle Eocene of Messel in Germany. The holotype specimen of *P. eunjooae* sp. nov. for the first time allows a detailed examination of the distal tarsometatarsus in one of the Messel zygodactylids. It also exhibits exceptionally well-preserved tail feathers which, most notably, are formed by a long central pair of rectrices. We further report on a new specimen of *Primozygodactylus major*, which is the largest zygodactylid from Messel. Being one of the few dissociated skeletons of *Primozygodactylus*, the new specimen shows some previously unknown osteological features of this taxon and allows a more detailed comparison with other zygodactylids.

Key words: Aves, Zygodactylidae, *Primozygodactylus*, Eocene, Messel.

Gerald Mayr [Gerald.Mayr@senckenberg.de], Forschungsinstitut Senckenberg, Sektion Ornithologie, Senckenberganlage 25, 60325 Frankfurt am Main, Germany;
Nikita Zelenkov [nzelen@paleo.ru], Russian Academy of Sciences, Palaeontological Institute, Profsoyuznaja St. 123, 117997, Moscow GSP-7, Russia.

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