

The first pipizine hoverfly from the Oligocene of Céreste, France


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Acta Palaeontologica Polonica 63 (3), 2018: 539-548 doi:<https://doi.org/10.4202/app.00500.2018>

The Oligocene *Oligopipiza quadriguttata* Nidergas, Hadrava, and Nel gen et sp. nov. is the first fossil Pipizinae found in the lacustrine outcrop of Céreste (South-East of France). It differs from the other Pipizinae in the male genitalia, with a surstylus without tooth and shorter than epandrium, and a long epandrium with a very deep and narrow median theca. It is compared to other extant and fossil Pipizinae. Its position in this clade is supported by its inclusion in previous morphological phylogenetic analysis of the Syrphidae. Palaeoecological inferences for the paleobiota of Céreste are made based on this taxon and point to the presence of a mixed forest. The taphonomy of these flies is discussed. They were probably embedded in surface microbial mats. The pollinator role of *Oligopipiza quadriguttata* is also discussed on the basis of the presence of pollen surrounding the fossil flies.

Key words: Insecta, Syrphidae, Pipizinae, palaeoecology, Paleogene, France.

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