

A new matoniaceous fern from the Upper Triassic of the Caspian Depression in the context of florogenetic processes of transition from the Paleozoic to Mesozoic

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Abstract

© 2015, Pleiades Publishing, Ltd. A new matoniaceous fern species of the genus *Phlebopteris* Brongniart from the Upper Triassic of the Caspian Depression (Zhylyoiskii District, Atyrau Region, Kazakhstan) is described. It is represented by both sterile and fertile leaves preserved in situ, including the structure of sporangia and spores. The main trends in the evolution of ferns at transition from the Paleozoic to Mesozoic are discussed.

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Keywords

evolution, ferns, Kazakhstan, Matoniaceae, new taxa, *Phlebopteris*, taxonomy, Triassic