

## Morphology and microstructure of oligolamellar teeth in Paleozoic echinoids. Part 1. Teeth of some early lepidocentrid echinoids

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The oligolamellar, flat type of echinoid teeth in *Kongielechinus magnituberculatus* gen.n., sp.n. is described. The teeth consist of few relatively large, thick, roughly triangular lamellae. Re-interpretation of the teeth structure of the oldest known echinoids - Upper Ordovician *Aulechinus* and *Ectinechinus* is presented. It is suggested that their teeth also belong to the flat, oligolamellar type and have been hitherto wrongly assigned to the grooved type. A new lepidocentrid *Kongielechinus magnituberculatus* gen.n., sp.n. from the Givetian (Middle Devonian) of Poland is described on the basis of isolated coronal plates, spines and Aristotle lantern elements.

**Key words:** Devonian, echinoids, evolution, jaw apparatus, microstructure, taxonomy.

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