

## ***Lanea carlsi* conodont apparatus reconstruction and its significance for subdivision of the Lochkovian**

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A cosmopolitan spathognathodontid taxon “*Ancyrodelloides carlsi*” is not regarded in this paper as one of the earliest known representatives of *Ancyrodelloides* according to former concepts, but is considered as conspicuous member of the genus *Lanea*. The taxon shows distinct morphological innovation of the upper surface of the Pa element within the *Lanea* lineage which makes it easily recognizable worldwide and suitable for global correlation. Presented stratigraphic correlation using conodonts and other faunal groups qualifies a short-lived *Lanea carlsi* as probably the best marker of the middle Lochkovian base. This paper presents reconstruction of the apparatus of *L. carlsi* which is the first complete reconstruction in the genus *Lanea*. The comparison of the *Lanea* apparatus and assumed apparatus of early *Ancyrodelloides* from the Požáry Quarries (Barrandian, Czech Republic) resulted to proposal of an alternative concept of evolution of these two genera. The relatively short-lived genus *Ancyrodelloides* is considered to split off from the *Lanea* clade in the late middle Lochkovian by the entry of *Ancncyrodelloides* transitans.

**Key words:** Conodonta, apparatus reconstruction, biostratigraphy, Lochkovian, Barrandian, Prague Synform.

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