

New observations on rhynchonelloid brachiopod *Dzieduszyckia* from the Famennian of Morocco

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The genus *Dzieduszyckia* is especially well represented and diverse in the Famennian strata of the Middle Atlas, Morocco. In this paper we re-study and re-illustrate the rich collection of *Dzieduszyckia* from Morocco, described by Henri and Geneviève Termier, and originally referred to *Halorella* or *Eoperegrinella*. New data on the internal shell structure of *D. crassicostata*, *D. intermedia*, and *D. tenuicostata* indicate great intraspecific variability in morphology. The structure of crura of three studied species demonstrates that subfamily Dzieduszyckiinae is better placed within the family Halorellidae, instead of Peregrinellidae. Type specimens (lectotypes) of the three species were also selected. An analysis of the stable isotopes of carbon and oxygen of the shell material of *Dzieduszyckia* and carbonate sediment was used to investigate the presumed chemosynthetic nature of its paleoenvironments. The analyses of the Moroccan and Polish material do not show any signature of unusual environmental conditions: they fall in the range of the mean values of $\delta^{13}\text{C}$ for the Late Devonian.

Key words: Brachiopoda, Halorellidae, *Dzieduszyckia*, carbon isotopes, Famennian, Morocco.

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