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## Microsculpture of the Early Triassic conchostracans from the Southern Verkhoyanie (the Tiryakh-Kobyume Section)

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The Permian-Triassic Tiryakh-Kobyume section is located in Southern Verkhoyanie (Republic of Sakha (Yakutia)). The Early Triassic shallow marine succession conformably overlies marine Changhsingian deposits (Privol'nyi Formation (Fm)) and is represented by the Nekuchan Fm. Conchostracans (about 150 specimens) are sampled from the lower part of the Nekuchan Fm (bed 35) together with ammonoids (Kutygin et al., 2019).

This conchostracan assemblage includes "*Pseudestheria sibirica*" Novojilov, "*Ps. tumaryana*" Nov., "*Ps. kashirtzevi*" Nov., "*Sphaerestheria aldanensis*" Nov., "*Lioestheria ignatjevi*" Nov., *Wetlugites pronus* Nov, and *Euestheria gutta* (Lutkevich).

Some conchostracan shells possess a good preserved microsculpture.

The shells of "*Ps. tumaryana*" are characterised by a smooth microsculpture on the umbonal area and small pitted microsculpture (pit size = 4.1 µm) with closely spaced pits on the anterior and central parts of the valve.

The shells of "*Ps. kashirtzevi*" have a small pitted microsculpture (pit size = 4 µm) with closely spaced pits. The surface of some specimens contains minute pyrite framboids.

Generally, it can be assumed that the pitted type of ornamentation is a characteristic feature of the genus *Pseudestheria* Raymond, 1946.

The microsculpture of "*L. ignatjevi*" is well preserved only on the anterior part of the valve, wherein a closely spaced, predominantly pitted microsculpture (pit size = 5.5 µm) is observed. The best microsculpture preservation is recorded on the last two growth bands. The surface of some specimens contains pyrite framboids.

The shells of *W. pronus* have a small reticulated microsculpture (cell size = 4.5 µm) with closely spaced ornament. The reticulation is well preserved on the last two or three growth bands. The holotype of this species has an average reticulated microsculpture (cell size = 8.1 µm) with a closely spaced ornamentation.

The species *E. gutta* has a closely spaced, fine pitted microsculpture (pit size = 4.7 µm). This species also occurs in the Early Triassic of the Kuznetsk Basin, northern and southern China, European Russia, and Germany. Siberian (Sabirova et al., 2019) and Chinese (Chu et al., 2019) specimens of *E. gutta* possess the same type of ornamentation.

We can conclude that some genera and species of conchostracans show preservations of well-defined microsculptures. The microsculptural shell features are a supporting method for revising the taxonomic diversity of conchostracans.

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