

Online Resource 5 The thickness of each layer of the carapace throughout development (number of animals used, n = 5 for each instar)

Instar	Epicuticle Thickness (nm)	Exocuticle Thickness (μm)	Endocuticle Thickness (μm)	Membranous layer Thickness (μm)
1	50.03 $\pm$ 4.14	0.47 $\pm$ 0.10	0.37 $\pm$ 0.10	0.64 $\pm$ 0.24
2	79.22 $\pm$ 8.434	1.44 $\pm$ 0.09	3.38 $\pm$ 0.84	1.21 $\pm$ 0.42
3	100 $\pm$ 9.6	1.94 $\pm$ 0.41	6.08 $\pm$ 1.12	1.67 $\pm$ 0.51
4	89.85 $\pm$ 30.63	1.37 $\pm$ 1.00	2.60 $\pm$ 1.71	1.4 $\pm$ 1.18
5	95.92 $\pm$ 14.01	2.78 $\pm$ 0.31	6.31 $\pm$ 0.84	1.98 $\pm$ 0.50
Adult	97.93 $\pm$ 6.83	4.21 $\pm$ 0.67	11.34 $\pm$ 0.78	3.66 $\pm$ 0.91

The ultrastructural development and 3D reconstruction of the transparent carapace of the ostracod *Skogsbergia lernerii*

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