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SUPPLEMENTARY ONLINE MATERIAL FOR

An Early Triassic gladius associated with soft tissue remains from Idaho, USA—a squid-like coleoid cephalopod at the onset of Mesozoic Era

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Table 1. Coleoid cephalopod *Idahoteuthis parisi* gen. et sp. nov. (holotype, UBGD 30545); Early Triassic, middle Olenekian; Idaho, USA. Chemical composition of gladius, arm hooks, ink, soft tissue debris, and fin cartilages based on EDS data (in per cent to total weight).

Element	Gladius	Matrix near gladius	Arm Hooks	Ink	Soft Tissue Debris	F i n Canal content	C a r t i l a g e s Canal wall	Surface layer	Matrix
Carbon	10.2–17.3	13.2–17.4	68.9	42.7–45.7	11.5–45.7	7.6–47.5	15.3–38.2	13.3–40.1	4.6–16.0
Oxygen	35.2–50.8	57.8–62.7	25.5	37.0–44.2	1.8–56.5	1.5–48.6	6.0–55.1	8.0–48.3	35.7–46.6
Sodium	0.0–0.6	0.0–0.8	0.0	0.0	0.0–0.7	0.0–2.8	0.0–0.5	0.0–0.4	0.0–0.3
Magnesium	0.0–0.3	0.0–1.2	0.0	0.0	0.0–0.8	0.0–1.2	0.0	0.0	0.0–0.4
Aluminum	0.0–0.8	0.6–2.6	0.0	0.0	0.0–2.0	0.5–1.6	0.0–0.3	0.0–0.5	0.0–0.5
Silicon	0.4–2.1	2.5–10.9	0.0	0.0	0.3–18.4	0.0–5.9	0.4–1.0	0.3–2.1	0.2–2.5
Phosphorus	2.6–13.1	0.0–6.2	0.0	2.7	0.2–11.8	0.3–3.1	0.6–11.0	0.7–9.3	0.0–11.4
Sulfur	0.0	0.0–0.3	0.0	1.6	0.0–0.4	0.3–19.4	0.0–28.2	0.0–20.4	0.0–0.4
Potassium	0.0	0.0–0.9	0.0	0.0	0.0	0.0–0.6	0.0	0.0	0.0–0.6
Calcium	20.5–27.8	4.2–23.4	2.7	5.7	1.2–27.3	0.9–23.8	0.5–21.3	0.4–21.7	19.9–27.7
Iron	0.0	0.0–1.8	0.0	0.0	0.0	0.0–2.6	0.0–0.3	0.0–0.3	0.0–0.9
Antimony	0.0–8.5	0.0–7.0	0.0	0.0	5.1–8.9	2.0–6.5	1.2–7.5	5.0–5.7	6.4–9.3
Iodine	0.0–3.2	0.0–2.5	0.0	0.0	1.3–2.5	0.0–2.1	0.0–2.0	1.7–1.8	1.3–2.8
Platinum	0.0–0.5	0.0	0.0	0.0	0.0–0.5	0.0–5.4	0.3	0.0–3.2	0.0
Mercury	0.0	0.0	0.0	0.0	0.0	0.0–7.3	0.0	0.0–4.3	0.0
Zinc	0.0	0.0	0.0	0.0	0.0	0.4–63.5	0.0–46.3	0.0–49.0	0.2–1.2
Titanium	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
Chromium	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0