



Supplement of

New material of *Schizopholis* (family Botsfordiidae) from the Tsinghsutung Formation (Cambrian Series 2, Stage 4) in Songtao County, Guizhou Province, South China

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1 Table S1. The specimen numbers, SEM stub numbers, and Lab inventory numbers of
 2 *Schizopholis yorkensis* from the Tsingsutung Formation.

D	Specimen numbers	SEM stub numbers	Lab inventory numbers
E	PX-15m-24	B5-3-02	GZU-B-2333
E	PX-15m-188	B5-3-05	GZU-B-2497
E	PX-15m-189	B5-3-06	GZU-B-2498
E	PX-14m-202	B5-10-11	GZU-B-2244
E	PX-15m-270	B6-2-01	GZU-B-2579
E	PX-15m-390	B6-8-08	GZU-B-2699
E	PX-15m-391	B6-8-09	GZU-B-2700
E	PX-15m-394	B6-8-12	GZU-B-2703
E	PX-15m-395	B6-8-13	GZU-B-2704
E	PX-15m-396	B6-8-14	GZU-B-2705
E	PX-15m-400	B6-8-18	GZU-B-2709
E	PX-15m-401	B6-8-19	GZU-B-2710
E	PX-15m-402	B6-8-20	GZU-B-2711
E	PX-15m-409	B6-8-27	GZU-B-2718
E	PX-15m-415	B6-8-33	GZU-B-2724
E	PX-15m-420	B6-8-38	GZU-B-2729
E	PX-15m-615	B6-13-01	GZU-B-2924
I	PX-15m-23	B5-3-01	GZU-B-2332
I	PX-14m-45	B5-12-25	GZU-B-2087
I	PX-14m-225	B5-13-03	GZU-B-2267
I	PX-15m-397	B6-8-15	GZU-B-2706
I	PX-15m-408	B6-8-26	GZU-B-2717
I	PX-15m-410	B6-8-28	GZU-B-2719
I	PX-15m-419	B6-8-37	GZU-B-2728
I	PX-15m-421	B6-8-39	GZU-B-2730
V	Specimen numbers	SEM stub numbers	Lab inventory numbers
E	PX-15m-25	B5-3-03	GZU-B-2334
E	PX-15m-135	B5-4-08	GZU-B-2444
E	PX-14m-189	B5-9-14	GZU-B-2231
E	PX-14m-220	B5-10-29	GZU-B-2262
H	PX-14m-43	B5-12-23	GZU-B-2085
H	PX-15m-351	B6-6-03	GZU-B-2660
E	PX-15m-367	B6-7-02	GZU-B-2676
E	PX-15m-383	B6-8-01	GZU-B-2692
E	PX-15m-389	B6-8-07	GZU-B-2698
E	PX-15m-392	B6-8-10	GZU-B-2701
E	PX-15m-403	B6-8-21	GZU-B-2712
E	PX-15m-404	B6-8-22	GZU-B-2713
E	PX-15m-405	B6-8-23	GZU-B-2714
E	PX-15m-625	B6-13-11	GZU-B-2934
E	PX-15m-626	B6-13-12	GZU-B-2935

I	PX-14m-201	B5-10-10	GZU-B-2243
I	PX-15m-275	B6-2-06	GZU-B-2584
I	PX-15m-276	B6-2-07	GZU-B-2585
I	PX-15m-384	B6-8-02	GZU-B-2693
I	PX-15m-386	B6-8-04	GZU-B-2695
I	PX-15m-393	B6-8-11	GZU-B-2702
I	PX-15m-398	B6-8-16	GZU-B-2707
I	PX-15m-406	B6-8-24	GZU-B-2715
I	PX-15m-411	B6-8-29	GZU-B-2720
I	PX-15m-414	B6-8-32	GZU-B-2723

- 3 Abbreviations: D–Dorsal valve; V–Ventral valve; SEM–Scanning electron microscopy; Lab–Laboratory;
4 E–exterior view; I–interior view; H–hinged ventral and dorsal valves; PX–Panxin section; B5–number 5
5 of SEM samples box; B6–number 6 of SEM samples box; GZU–Guizhou University; B–Brachiopods.

6 Table S2. Measurements of dorsal valves of *Schizopholis yorkensis* from the Tsinghsutung
7 Formation in Songtao County, Guizhou Province, South China.

Specimen numbers	L	W	W/L	L_m	L_m/L	W_m	W_m/W	W_m/L_m	L_{tu}	L_{tu}/L_m	W_{tu}	W_{tu}/W_m
PX-15m-24	769	845	1.10	331	0.43	428	0.51	1.30	62	0.19	99	0.23
PX-15m-188	508	569	1.12	333	0.66	453	0.80	1.36	77	0.23	98	0.22
PX-15m-189	573	619	1.08	357	0.62	430	0.70	1.20	124	0.35	130	0.30
PX-14m-202	634	640	1.01	367	0.58	455	0.71	1.24	112	0.30	127	0.28
PX-15m-270	/	1568	/	292	/	484	0.31	1.66	54	0.18	132	0.27
PX-15m-390	819	841	1.03	334	0.41	473	0.56	1.42	117	0.35	115	0.24
PX-15m-391	883	900	1.02	270	0.31	454	0.50	1.68	/	/	134	0.30
PX-15m-394	621	660	1.06	400	0.64	495	0.75	1.24	123	0.31	149	0.30
PX-15m-395	732	770	1.05	369	0.50	526	0.68	1.43	73	0.20	161	0.31
PX-15m-396	851	1018	1.20	379	0.45	470	0.46	1.24	87	0.23	119	0.25
PX-15m-400	469	802	1.71	408	0.87	509	0.64	1.25	141	0.35	151	0.30
PX-15m-401	537	572	1.07	275	0.51	390	0.68	1.42	59	0.21	116	0.30
PX-15m-402	302	287	0.95	236	0.78	285	0.99	1.21	60	0.25	82	0.29
PX-15m-409	756	743	0.98	377	0.50	495	0.67	1.31	104	0.28	145	0.29
PX-15m-415	/	/	/	/	/	450	/	/	/	/	122	0.27
PX-15m-420	/	/	/	372	/	499	/	1.34	95	0.25	132	0.27
PX-15m-615	592	730	1.23	337	0.57	465	0.64	1.38	/	/	139	0.30

8 Abbreviations: L —length of valve, W —width of valve, L_m —length of metamorphic shell, W_m —width of
9 metamorphic shell, L_{tu} —length of the tubercle to the posterior margin, W_{tu} —width between two tubercles.

10 Table S3. Measurements of ventral valves of *Schizopholis yorkensis* from the Tsinghsutung
11 Formation in Songtao County, Guizhou Province, South China.

Specimen numbers	L	W	W/L	L_m	L_m/L	W_m	W_m/W	W_m/L_m
PX-15m-25	1036	1240	1.20	346	0.33	516	0.42	1.49
PX-15m-135	1015	988	0.97	393	0.39	461	0.47	1.17
PX-14m-189	737	818	1.11	345	0.47	515	0.63	1.49
PX-14m-220	1197	1462	1.22	361	0.30	407	0.28	1.13
PX-14m-43	570	634	1.11	354	0.62	435	0.69	1.23
PX-15m-351	1856	1918	1.03	364	0.20	434	0.23	1.19
PX-15m-367	831	1053	1.27	370	0.45	509	0.48	1.38
PX-15m-383	549	662	1.21	383	0.70	516	0.78	1.35
PX-15m-389	816	1047	1.28	351	0.43	516	0.49	1.47
PX-15m-392	712	867	1.22	353	0.50	397	0.46	1.13
PX-15m-403	681	646	0.95	411	0.60	508	0.79	1.24
PX-15m-404	657	632	0.96	399	0.61	482	0.76	1.21
PX-15m-405	751	674	0.90	318	0.42	419	0.62	1.32
PX-15m-625	1107	1529	1.38	386	0.35	469	0.31	1.22
PX-15m-626	1130	1512	1.34	459	0.41	580	0.38	1.26

12 Abbreviations see Table S2.