

1 *Chryseobacterium paridis* sp. nov., an endophytic bacterial species isolated from the
2 root of *Paris polyphylla* Smith var. *yunnanensis*

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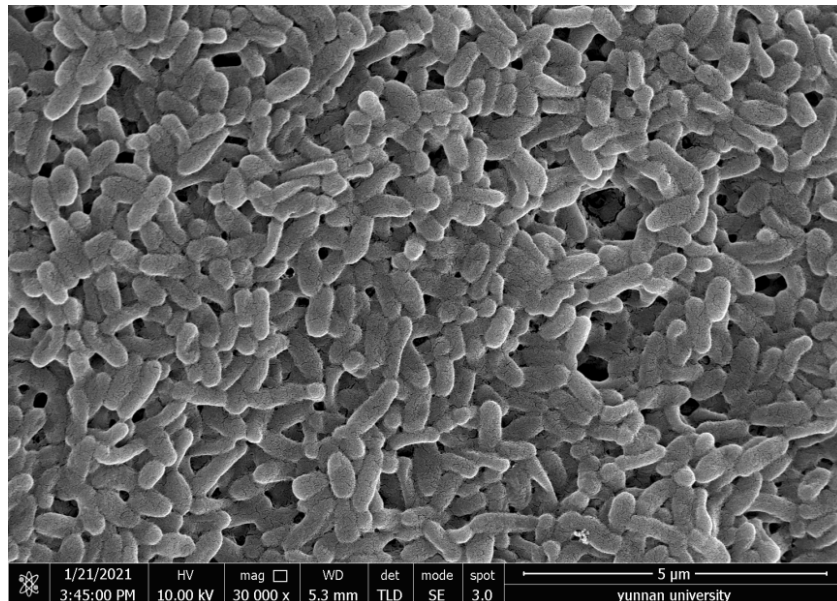
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14 Fig. S1. Scanning electron microscope of cells of strain YIM B02567^T grown on R2A agar medium for
15 2 days at 30 °C. Bar, 5 μm.

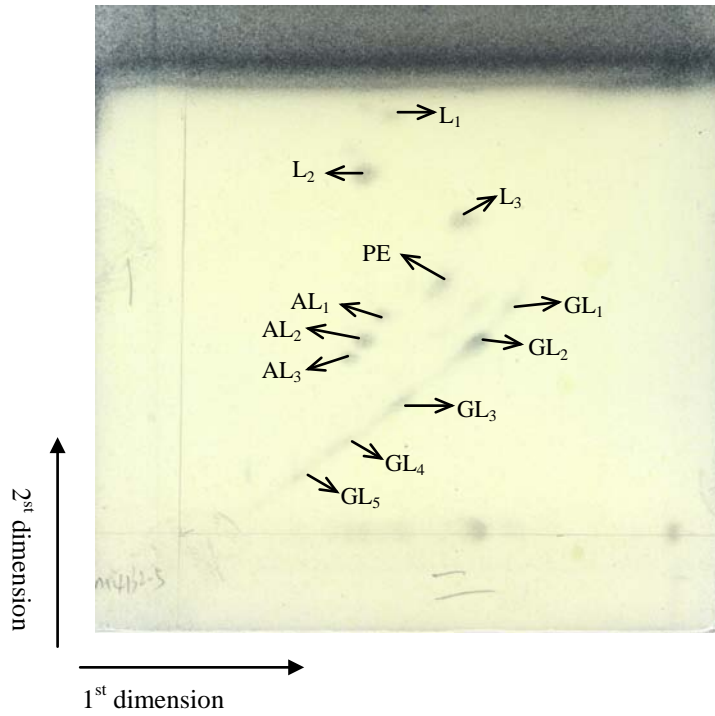


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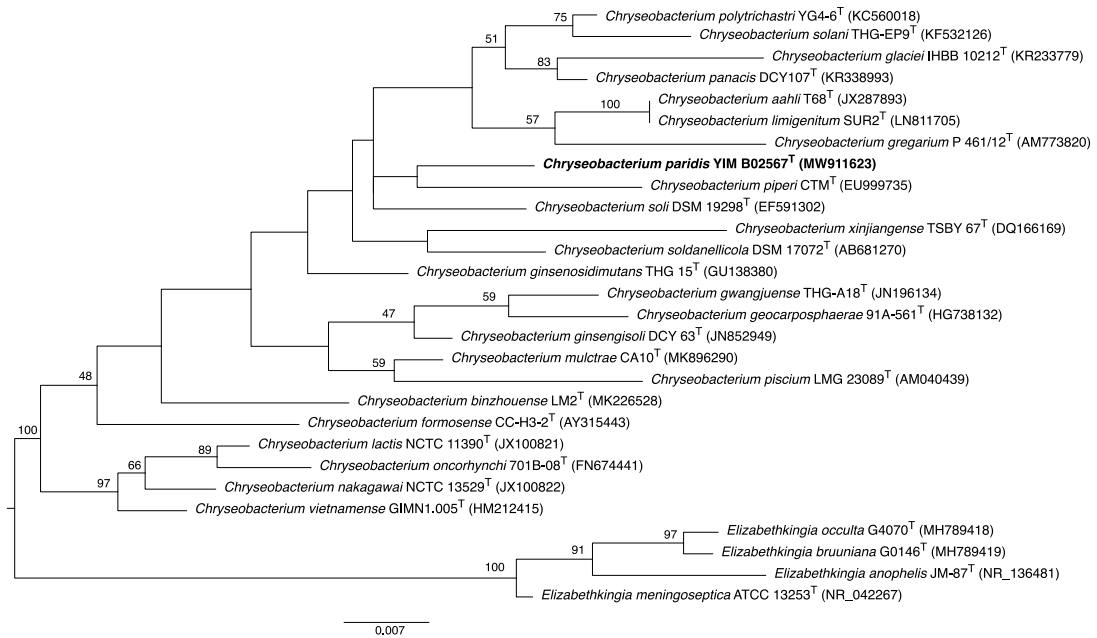
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19 Fig. S2. Two-dimensional thin-layer chromatogram of the polar lipids from strain YIM B02567^T. The
20 TLC plate was stained with 5 % ethanolic molybdophosphoric acid reagent for total lipids. PE,
21 phosphatidylethanolamine; AL, unidentified aminolipid; GL, unidentified glycolipid; L, unidentified
22 lipid.



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27 Fig. S3. A maximum-likelihood tree of 16S rRNA gene sequences, showing relationships between
 28 strain YIM B02567^T and related taxa. Bootstrap values >40 % based on 1000 replications are shown at
 29 branch nodes. Bar, 0.007 substitutions per nucleotide position.



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32 Table S1. The statistics of ANI and AAI values of the related species.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1		82.53	78.80	80.64	81.10	80.04	80.92	78.35	82.37	81.82	83.06	79.14	82.22	81.97	83.33	82.79	79.49
2	79.69		80.91	83.0	81.29	82.79	80.98	79.29	83.53	82.41	84.80	80.69	82.65	81.76	85.29	83.65	80.67
3	77.98	80.01		80.77	78.15	79.55	78.53	82.17	79.91	79.04	80.18	85.94	79.46	78.90	80.74	79.24	85.83
4	78.86	80.46	79.67		80.51	81.74	80.33	79.60	81.90	80.67	82.28	80.49	80.89	81.04	82.51	81.24	80.50
5	79.13	78.94	77.66	78.76		79.37	85.47	77.73	81.0	80.51	80.40	77.75	81.19	86.24	81.15	79.98	78.39
6	77.85	79.17	78.06	78.46	77.21		79.08	78.66	81.05	79.72	81.75	79.38	80.21	80.04	82.0	80.72	79.57
7	78.84	78.61	77.70	78.74	81.92	76.99		77.94	81.61	80.10	80.56	78.67	81.05	87.09	81.19	80.0	78.06
8	77.38	78.50	80.06	78.47	77.17	76.99	77.18		79.12	78.77	78.46	82.39	79.19	78.24	80.10	77.90	81.96
9	79.59	80.22	78.41	79.42	78.80	78.27	79.32	77.60		83.72	82.77	79.66	84.31	81.87	83.50	82.18	79.71
10	78.94	78.93	77.69	78.40	78.37	77.08	78.32	77.12	79.50		82.53	78.88	86.67	81.14	82.73	81.82	79.25
11	80.24	82.59	79.50	80.10	78.86	78.14	78.91	78.03	79.89	79.27		80.28	82.68	81.90	93.54	89.25	80.64
12	78.07	79.57	83.05	79.21	77.66	77.45	78.29	80.18	78.11	77.77	79.90		79.47	78.75	81.35	79.38	92.81
13	79.10	79.04	77.62	78.57	78.57	77.15	78.59	77.25	79.79	81.72	79.27	77.75		81.51	83.01	82.0	79.62
14	79.33	78.78	77.70	78.75	82.13	77.1	83.27	77.15	78.87	78.59	79.18	77.84	78.80		82.03	81.25	78.91
15	80.27	82.66	79.62	80.09	78.91	78.0	79.0	79.29	79.97	79.20	90.73	80.42	79.18	79.09		88.72	80.82
16	80.04	80.98	78.71	79.50	78.78	77.53	78.72	77.58	79.40	79.32	86.43	79.16	79.23	79.04	85.47		80.02
17	78.17	79.59	82.83	79.27	77.71	77.52	77.66	79.66	78.22	77.84	80.08	90.35	77.76	77.92	79.85	79.21	

33 1, *C. soli*; 2, *C. soldanellicola*; 3, *C. formosense*; 4, *C. geocarposphaerae*; 5, *C. lactis*; 6, *C. gregarium*; 7, *C. nakagawai*; 8, *C. binzhouense*; 9, *C. populi*; 10, YIM B02567^T ;

34 11, *C. glaciei*; 12, *C. mulctrae*; 13, *C. piperi*; 14, *C. oncorhynchi*; 15, *C. limigenitum*; 16, *C. polytrichastri*; 17, *C. piscium*. Top triangle part of the table shows the AAI values,

35 bottom triangle shows the ANI values. *C.*, *Chryseobacterium*.