VALIDATION LIST NO. 79

Validation of publication of new names and new combinations previously effectively published outside the IJSEM

The purpose of this announcement is to effect the valid publication of the following new names and new combinations under the procedure described previously [*Int J Syst Bacteriol* **27**(3), iv (1977)]. Authors and other individuals wishing to have new names and/or combinations included in future lists should send **the pertinent reprint or a photocopy thereof to the IJSEM Editorial Office** for confirmation that all of the other requirements for valid publication have been met. It should be noted that the date of valid publication of these new names and combinations is the date of publication of this list, not the date of the original publication of the names and combinations. The authors of the new names and combinations are as given below, and these authors' names will be included in the author index of the present issue and in the volume author index. Inclusion of a name on these lists validates the name and thereby makes it available in bacteriological nomenclature. The inclusion of a name on this list is not to be construed as taxonomic acceptance of the taxon to which the name is applied. Indeed, some of these names may, in time, be shown to be synonyms, or the organisms may be transferred to another genus, thus necessitating the creation of a new combination.

Name	Proposed as:	Author(s) (reference)	Priority*	Nomenclatural type†
Acetobacter estunensis (basonym *Acetobacter pasteurianus* subsp. *estunensis*)	comb. nov.	Lisdiyanti *et al.* (6)	5	IFO 13751 (= ATCC 23753 = NCIMB 8935 = LMG 1626)
Acetobacter indonesiensis	sp. nov.	Lisdiyanti *et al.* (6)	5	Strain 5H-1 (= NRIC 0313 = JCM 10948 = IFO 16471)
Acetobacter lovaniensis (basonym *Acetobacter pasteurianus* subsp. *lovaniensis*)	comb. nov.	Lisdiyanti *et al.* (6)	5	IFO 13753 (= ATCC 12875 = NCIMB 8620 = LMG 1579
Acetobacter orleanensis (basonym *Acetobacter aceti* subsp. *orleanensis*)	comb. nov.	Lisdiyanti *et al.* (6)	5	IFO 13752 (= ATCC 12876 = NCIMB 8622 = LMG 1583)
Acetobacter tropicalis	sp. nov.	Lisdiyanti *et al.* (6)	5	Strain Ni-6b (= NRIC 0312 = JCM 10947 = IFO 16470)
Desulfovibrio mexicanus	sp. nov.	Hernandez-Eugenio *et al.* (4)	4	Strain Lup1 (= DSM 13116)
Halonatronum	gen. nov.	Zhilina *et al.* (10)	8	*Halonatronum saccharophilum*
Halonatronum saccharophilum	sp. nov.	Zhilina *et al.* (10)	8	Strain Z-7986 (= DSM 13868 = UNIQEM 211)

Continued on following page

(*cont.*)

Name	Proposed as:	Author(s) (reference)	Priority*	Nomenclatural type†
Heliorestis baculata	sp. nov.	Bryantseva *et al.* (2)	6	Strain OS-H1 (= DSM 13446)
Leuconostoc gasicomitatum	sp. nov.	Björkroth *et al.* (1)	1	Strain TB 1-10 (= LMG 18811)
Mycobacterium heckeshornense	sp. nov.	Roth *et al.* (8)	7	Strain S369 (= DSM 44428)
Paenibacillus granivorans	sp. nov.	Van der Maarel *et al.* (9)	2	Strain A30 (= CBS 229.89)
Prochlorococcus	gen. nov.	Chisholm *et al.* (3)	3	*Prochlorococcus marinus*
Prochlorococcus marinus	sp. nov.	Chisholm *et al.* (3)	3	Strain CCMP-1375
Prochlorococcus marinus subsp. *marinus*	Rule 40d‡			
Prochlorococcus marinus subsp. *pastoris*	subsp. nov.§	Rippka *et al.* (7)	3	Strain PCC 9511 (= ATCC 700925)
Pyrobaculum arsenaticum	sp. nov.	Huber *et al.* (5)	4	Strain PZ6* (= ATCC 700994 = DSM 13514)

For references to Validation Lists 1–71, see *Int J Syst Bacteriol* **49** (1999) 1325. Lists 72–78 were published in *Int J Syst Evol Microbiol* **50** (2000) 3, 423, 949, 1415, 1699, 1953 and **51** (2001) 1.

* Priority number assigned according to the date the documentation and request for validation are received.

† Abbreviations: ATCC, American Type Culture Collection, Manassas, VA, USA; CBS, Centraal Bureau voor Schimmelcultures, Baarn, The Netherlands; CCMP, Center for the Culture of Marine Phytoplankton, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME, USA; DSM, DSMZ – Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Braunschweig, Germany; IFO, Institute for Fermentation, Osaka, Japan; JCM, Japan Collection of Microorganisms, RIKEN, Saitama, Japan; LMG, LMG Culture Collection, Universiteit Gent, Gent, Belgium; NCIMB, National Collection of Industrial and Marine Bacteria, Aberdeen, UK; NRIC, Culture Collection Center, Tokyo University of Agriculture, Tokyo, Japan; UNIQEM, Collection of Unique Cultures, Russian Academy of Sciences, Moscow, Russia.

‡ According to Rule 40d (formerly Rule 46) of the International Code of Nomenclature of Bacteria, the valid publication of *Prochlorococcus marinus* subsp. *pastoris* automatically creates another subspecies, *Prochlorococcus marinus* subsp. *marinus* Chisholm *et al.* 2001.

§ Despite its publication in *Int J Syst Evol Microbiol*, *Prochlorococcus marinus* subsp. *pastoris* subsp. nov. is announced in this Validation List because the genus name *Prochlorococcus* and the species name *Prochlorococcus marinus* had not been validly published under the Bacteriological Code at that time.

References

1. **Björkroth, K. J., Geisen, R., Schillinger, U., Weiss, N., De Vos, P., Holzapfel, W. H., Korkeala, H. J. & Vandamme, P. (2000).** Characterization of *Leuconostoc gasicomitatum* sp. nov., associated with spoiled raw tomato-marinated broiler meat strips packaged under modified-atmosphere conditions. *Appl Environ Microbiol* **66**, 3764–3772.
2. **Bryantseva, I. A., Gorlenko, V. M., Kompantseva, E. I., Tourova, T. P., Kuznetsov, B. B. & Osipov, G. A. (2000).** Alkaliphilic heliobacterium *Heliorestis baculata* sp. nov. and emended description of the genus *Heliorestis*. *Arch Microbiol* **174**, 283–291.
3. **Chisholm, S. W., Frankel, S. L., Goericke, R., Olson, R. J., Palenik, B., Waterbury, J. B., West-Johnsrud, L. & Zettler, E. R. (1992).** *Prochlorococcus marinus* nov. gen. nov. sp.: an oxyphototrophic marine prokaryote containing divinyl chlorophyll *a* and *b*. *Arch Microbiol* **157**, 297–300.
4. **Hernandez-Eugenio, G., Fardeau, M.-L., Patel, B. K. C., Macarie, H., Garcia, J.-L. & Ollivier, B. (2000).** *Desulfovibrio mexicanus* sp. nov., a sulfate-reducing bacterium isolated from an upflow anaerobic sludge blanket (UASB) reactor treating cheese wastewaters. *Anaerobe* **6**, 305–312.
5. **Huber, R., Sacher, M., Vollmann, A., Huber, H. & Rose, D. (2000).** Respiration of arsenate and selenate by hyperthermophilic archaea. *Syst Appl Microbiol* **23**, 305–314.
6. **Lisdiyanti, P., Kawasaki, H., Seki, T., Yamada, Y., Uchimura, T. & Komagata, K. (2000).** Systematic study of the genus *Acetobacter* with descriptions of *Acetobacter indonesiensis* sp. nov., *Acetobacter tropicalis* sp. nov., *Acetobacter orleanensis* (Henneberg 1906) comb. nov., *Acetobacter lovaniensis* (Frateur 1950) comb. nov., and *Acetobacter estunensis* (Carr 1958) comb. nov. *J Gen Appl Microbiol* **46**, 147–165.
7. **Rippka, R., Coursin, T., Hess, W., Lichtle, C., Scanlan, D. J., Palinska, K. A., Iteman, I., Partensky, F., Houmard, J. & Herdman, M. (2000).** *Prochlorococcus marinus* Chisholm *et al.* 1992 subsp. *pastoris* subsp. nov. strain PCC 9511, the first axenic chlorophyll a_2/b_2-containing cyanobacterium (*Oxyphotobacteria*). *Int J Syst Evol Microbiol* **50**, 1833–1847.
8. **Roth, A., Reischl, U., Schönfeld, N., Naumann, L., Emler, S.,**

Fischer, M., Mauch, H., Loddenkemper, R. & Kroppenstedt, R. M. (2000). *Mycobacterium heckeshornense* sp. nov., a new pathogenic slowly growing *Mycobacterium* sp. causing cavitary lung disease in an immunocompetent patient. *J Clin Microbiol* **38**, 4102–4107.

9. **Van der Maarel, M. J. E. C., Veen, A. & Wijbenga, D. J. (2000).** *Paenibacillus granivorans* sp. nov., a new *Paenibacillus* species which degrades native potato starch granules. *Syst Appl Microbiol* **23**, 344–348.

10. **Zhilina, T. N., Garnova, E. S., Tourova, T. P., Kostrikina, N. A. & Zavarzin, G. A. (2001).** *Halonatronum saccharophilum* gen. nov., sp. nov.: a new haloalkaliphilic bacterium of the order *Haloanaerobiales* from Lake Magadi. *Mikrobiologiya* **70**, 77–85 (in Russian).