Validation List no. 102

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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 in the Bacteriological Code (1990 Revision). Authors and other individuals wishing to have new names and/or combinations included in future lists should send **three copies of the pertinent reprint or photocopies thereof to the IJSEM Editorial Office** for confirmation that all of the other requirements for valid publication have been met. **It is also a requirement of IJSEM and the ICSP that authors of new species, new subspecies and new combinations provide evidence that types are deposited in two recognized culture collections in two different countries** (i.e. documents certifying deposition and availability of type strains). 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 publication of 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/author(s)	Proposed as:	Nomenclatural type*	Priority†	Reference
Burkholderia phenoliruptrix Coenye *et al.* 2005	sp. nov.	Strain AC1100 (=LMG 22037=CCUG 48558)	6	2
Conexibacteraceae Stackebrandt 2005	fam. nov.	*Conexibacter* Monciardini *et al.* 2003	12	17
Geopsychrobacter Holmes *et al.* 2005	gen. nov.	*Geopsychrobacter electrodiphilus* Holmes *et al.* 2005	17	7
Geopsychrobacter electrodiphilus Holmes *et al.* 2005	sp. nov.	Strain A1 (=DSM 16401=JCM 12469)‡	17	7
Geothermobacter Kashefi *et al.* 2005	gen. nov.	*Geothermobacter ehrlichii* Kashefi *et al.* 2005	15	11
Geothermobacter ehrlichii Kashefi *et al.* 2005	sp. nov.	Strain SS015 (=ATCC BAA-635=DSM 15274=JCM 12418)§	15	11
Lactovum Matthies *et al.* 2005	gen. nov.	*Lactovum miscens* Matthies *et al.* 2005	9	13
Lactovum miscens Matthies *et al.* 2005	sp. nov.	Strain anNAG3 (=DSM 14925=ATCC BAA-490)	9	13
Leucobacter aridicollis Morais *et al.* 2005	sp. nov.	Strain L-9 (=CIP 108388=LMG 22507)‖	16	14
Leucobacter chromiireducens Morais *et al.* 2005	sp. nov.	Strain L-1 (=CIP 108389=LMG 22506)¶	16	14
Nicoletella Kuhnert *et al.* 2005	gen. nov.	*Nicoletella semolina* Kuhnert *et al.* 2005	8	12
Nicoletella semolina Kuhnert *et al.* 2005	sp. nov.	Strain CCUG 43639 (=DSM 16380)#	8	12
Nocardia aobensis Kageyama *et al.* 2005	sp. nov.	Strain IFM 0372 (=JCM 12352=DSM 44805)**	2	10
Nocardia kruczakiae Conville *et al.* 2005	sp. nov.	Strain ATCC BAA-948 (=DSM 44877)	1	3
Nocardia thailandica Kageyama *et al.* 2005	sp. nov.	Strain IFM 10145 (=JCM 12356=DSM 44808)††	14	9
Nocardia vermiculata Kageyama *et al.* 2005	sp. nov.	Strain IFM 0391 (=JCM 12354=DSM 44807)‡‡	14	9
Pectinatus portalensis Gonzalez *et al.* 2005	sp. nov.	Strain B6 (=CECT 5841=LMG 22865)§§	13	6
Porphyromonas uenonis Finegold *et al.* 2005	sp. nov.	Strain WAL 9902 (=ATCC BAA-906=CCUG 48615)	5	5
Psychrobacter adeliensis Shivaji *et al.* 2005	sp. nov.	Strain SJ 14 (=MTCC 4825=DSM 15333)	11	16
Psychrobacter salsus Shivaji *et al.* 2005	sp. nov.	Strain DD 48 (=DSM 15338=MTCC 4826)‖‖	11	16
Rhodanobacter fulvus Im *et al.* 2005	sp. nov.	Strain Jip2 (=IAM 15025=KCTC 12098)	3	8
Salmonella subterranea Shelobolina *et al.* 2005	sp. nov.	Strain FRCl (=ATCC BAA-836=DSM 16208)¶¶	4	15

cont.

Name/author(s)	Proposed as:	Nomenclatural type*	Priority†	Reference
Solirubrobacteraceae Stackebrandt 2005	fam. nov.	*Solirubrobacter* Singleton *et al.* 2003##	12	17
Thermococcus barossii Duffaud *et al.* 2005	sp. nov.	Strain SHCK-94 (=ATCC BAA-1085=JCM 12858)***	10	4
Thermoleophilaceae Stackebrandt 2005	fam. nov.	*Thermoleophilum* Zarilla and Perry 1986	12	17
Thioalkalivibrio halophilus corrig. Banciu *et al.* 2005 [*Thialkalivibrio halophilus* (*sic*)]†††	sp. nov.	Strain HL 17 (=DSM 15791=UNIQEM U225)‡‡‡	7	1

For references to Validation Lists 1–71, see *Int J Syst Bacteriol* **49** (1999) 1325. Lists 72–101 were published in *Int J Syst Evol Microbiol* **50** (2000) 3, 423, 949, 1415, 1699, 1953; and **51** (2001) 1, 263, 793, 1229, 1619, 1945; and **52** (2002) 3, 685, 1075, 1437, 1915; and **53** (2003) 1, 373, 627, 935, 1219, 1701; and **54** (2004) 1, 307, 631, 1005, 1425, 1909; and **55** (2005) 1.

*Abbreviations: ATCC, American Type Culture Collection, Manassas, VA, USA; CCUG, Culture Collection, University of Göteborg, Göteborg, Sweden; CECT, Coleccion Española de Cultivos Tipo, Universidad de Valencia, Burjasot (Valencia), Spain; CIP, Collection of the Institute Pasteur, Paris, France; DSM, DSMZ – Deutsche Sammlung von Mikroorganismen und Zellkulturen, Braunschweig, Germany; IAM, Institute of Molecular and Cellular Biosciences, University of Tokyo, Tokyo, Japan; IFM, Research Center for Pathogenic Fungi and Microbial Toxicoses, Chiba University, Chiba, Japan; JCM, Japan Collection of Microorganisms, RIKEN, Saitama, Japan; KCTC, Korean Collection for Type Cultures, Korea Research Institute of Bioscience & Biotechnology, Yusong, Taejon, Republic of Korea; LMG, LMG Culture Collection, Universiteit Gent, Gent, Belgium; MTCC, Microbial Type Culture Collection & Gene Bank, Institute of Microbial Technology, Chandigarh, India; UNIQEM, Unique and Extremophilic Microorganisms Collection of Winogradsky Institute of Microbiology RAS, Moscow, Russia.

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

‡In the protologue of the effective publication, the type strain JCM 12469 is erroneously cited as JCM 12470. The culture collection accession number ATCC BAA-880 is also cited in the effective publication, but the authors did not provide a certificate of deposition from this collection.

§The culture collection accession number JCM 12418 has been provided on request for validation.

‖In the protologue of the effective publication, the type strain CIP 108388 is erroneously cited as CIP 108338.

¶In the protologue of the effective publication, the type strain CIP 108389 is erroneously cited as CIP 108339.

#In the summary and in the protologue of the effective publication, the type strain CCUG 43639 is erroneously cited as CCUG43639; and in the summary the type strain DSM 16380 is erroneously cited as DSM16380.

**The culture collection accession number NBRC 100429 is also cited in the effective publication, but the authors did not provide a certificate of deposition from this collection.

††The culture collection accession number NBRC 100428 is also cited in the effective publication, but the authors did not provide a certificate of deposition from this collection.

‡‡The culture collection accession number NBRC 100427 is also cited in the effective publication, but the authors did not provide a certificate of deposition from this collection. In the effective publication, the type strain JCM 12354 is erroneously cited as JCM 12345.

§§The culture collection accession number LMG 22865 has been provided on request for validation. In the protologue of the effective publication, the type strain CECT 5841 is erroneously cited as CECT5841.

‖‖The culture collection accession number MTCC 4826 has been provided on request for validation.

¶¶The culture collection accession number DSM 16208 has been provided on request for validation.

##In the effective publication, the type genus is erroneously cited as *Conexibacter* Singleton *et al.* 2002.

***Although the number DSM 9535 appears in the effective publication, no type strain is designated in the paper by Duffaud *et al.* (1998). However, the strain DSM 9535 does not appear on the DSMZ website and would appear not to be available from the publicly accessible section of that collection. With the kind permission of Professor Robert M. Kelly, Dr Elena Pikuta deposited the strain SHCK-94 (here designated as the type strain) in the ATCC (ATCC BAA-1085) and the JCM (JCM 12858), and provided documentation confirming deposition in these collections.

†††The name of the genus has been corrected on validation.

‡‡‡In the protologue of the effective publication, the type strain UNIQEM U225 is cited as UNIQEM 225.

References

1. **Banciu, H., Sorokin, D. Y., Galinski, E. A., Muyzer, G., Kleerebezem, R. & Kuenen, J. G. (2004).** *Thialkalivibrio halophilus* sp. nov., a novel obligately chemolithoautotrophic, facultatively alkaliphilic, and extremely salt-tolerant, sulfur-oxidizing bacterium from a hypersaline alkaline lake. *Extremophiles* **8**, 325–334.
2. **Coenye, T., Henry, D., Speert, D. P. & Vandamme, P. (2004).** *Burkholderia phenoliruptrix* sp. nov., to accommodate the 2,4,5-trichlorophenoxyacetic acid and halophenol-degrading strain AC1100. *Syst Appl Microbiol* **27**, 623–627.
3. **Conville, P. S., Brown, J. M., Steigerwalt, A. G., Lee, J. W., Anderson, V. L., Fishbain, J. T., Holland, S. M. & Witebsky, F. G. (2004).** *Nocardia kruczakiae* sp. nov., a pathogen in immuno-compromised patients and a member of the ''*N. nova* complex''. *J Clin Microbiol* **42**, 5139–5145.
4. **Duffaud, G. D., D'Hennezel, O. B., Peek, A. S., Reysenbach, A.-L. & Kelly, R. M. (1998).** Isolation and characterization of *Thermococcus barossii*, sp. nov., a hyperthermophilic archaeon

isolated from a hydrothermal vent flange formation. *Syst Appl Microbiol* **21**, 40–49.

5. **Finegold, S. M., Vaisanen, M. L., Rautio, M., Eerola, E., Summanen, P., Molitoris, D., Song, Y., Liu, C. & Jousimies-Somer, H. (2004).** *Porphyromonas uenonis* sp. nov., a pathogen for humans distinct from *P. asaccharolytica* and *P. endodontalis*. *J Clin Microbiol* **42**, 5298–5301.
6. **Gonzalez, J. M., Jurado, V., Laiz, L., Zimmermann, J., Hermosin, B. & Saiz-Jimenez, C. (2004).** *Pectinatus portalensis* nov. sp., a relatively fast-growing, coccoidal, novel *Pectinatus* species isolated from a wastewater treatment plant. *Antonie van Leeuwenhoek* **86**, 241–248.
7. **Holmes, D. E., Nicoll, J. S., Bond, D. R. & Lovley, D. R. (2004).** Potential role of a novel psychrotolerant member of the family *Geobacteraceae*, *Geopsychrobacter electrodiphilus* gen. nov., sp. nov., in electricity production by a marine sediment fuel cell. *Appl Environ Microbiol* **70**, 6023–6030.
8. **Im, W.-T., Lee, S.T. & Yokota, A. (2004).** *Rhodanobacter fulvus* sp. nov., a β-galactosidase-producing gammaproteobacterium. *J Gen Appl Microbiol* **50**, 143–147.
9. **Kageyama, A., Poonwan, N., Yazawa, K., Suzuki, S.-i., Kroppenstedt, R. & Mikami, Y. (2004).** *Nocardia vermiculata* sp. nov. and *Nocardia thailandica* sp. nov. isolated from clinical specimens. *Actinomycetologica* **18**, 27–33.
10. **Kageyama, A., Suzuki, S.-i., Yazawa, K., Nishimura, K., Kroppenstedt, R. M. & Mikami, Y. (2004).** *Nocardia aobensis* sp. nov., isolated from patients in Japan. *Microbiol Immunol* **48**, 817–822.
11. **Kashefi, K., Holmes, D. E., Baross, J. A. & Lovley, D. R. (2003).** Thermophily in the *Geobacteraceae*: *Geothermobacter ehrlichii* gen. nov., sp. nov., a novel thermophilic member of the *Geobacteraceae* from the ''Bag City'' hydrothermal vent. *Appl Environ Microbiol* **69**, 2985–2993.
12. **Kuhnert, P., Korczak, B., Falsen, E., Straub, R., Hoops, A., Boerlin, P., Frey, J. & Mutters, R. (2004).** *Nicoletella semolina* gen. nov., sp. nov., a new member of *Pasteurellaceae* isolated from horses with airway disease. *J Clin Microbiol* **42**, 5542–5548.
13. **Matthies, C., Gößner, A., Acker, G., Schramm, A. & Drake, H. L. (2004).** *Lactovum miscens* gen. nov., sp. nov., an aerotolerant, psychrotolerant, mixed-fermentative anaerobe from acidic forest soil. *Res Microbiol* **155**, 847–854.
14. **Morais, P. V., Francisco, R., Branco, R., Chung, A. P. & da Costa, M. S. (2004).** *Leucobacter chromiireducens* sp. nov, and *Leucobacter aridicollis* sp. nov., two new species isolated from a chromium contaminated environment. *Syst Appl Microbiol* **27**, 646–652.
15. **Shelobolina, E. S., Sullivan, S. A., O'Neill, K. R., Nevin, K. P. & Lovley, D. R. (2004).** Isolation, characterization, and U(VI)-reducing potential of a facultatively anaerobic, acid-resistant bacterium from low-pH, nitrate- and U(VI)-contaminated subsurface sediment and description of *Salmonella subterranea* sp. nov. *Appl Environ Microbiol* **70**, 2959–2965.
16. **Shivaji, S., Reddy, G. S. N., Raghavan, P. U. M., Sarita, N. B. & Delille, D. (2004).** *Psychrobacter salsus* sp. nov. and *Psychrobacter adeliensis* sp. nov. isolated from fast ice from Adelie Land, Antarctica. *Syst Appl Microbiol* **27**, 628–635.
17. **Stackebrandt, E. (2004).** Will we ever understand? The undescribable diversity of the prokaryotes. *Acta Microbiol Immunol Hung* **51**, 449–462.