‘List of Changes in Taxonomic Opinion’: making use of the new lists

Codes of nomenclature are primarily concerned with the creation and use of new names and new combinations. The Bacteriological Code (Lapage et al., 1992) is no exception, and there are no mechanisms currently incorporated in the present revision that allow either a taxonomist or other microbiologists to refer to a central register of such important changes in taxonomic opinion, in the same way that new validly published names or combinations are listed in the Notification Lists or in the Validation Lists.

The Editorial Board of the International Journal of Systematic and Evolutionary Microbiology (IJSEM) has noted that some important taxonomic opinions (i.e. the creation of synonyms or the emendation of circumscriptions) are published outside the IJSEM. The wealth of journals in circulation now makes it a difficult task to track all changes in taxonomy and nomenclature, unless there is some form of central registry/index. Over the past 25 years prokaryotic systematics has been of central registry/index. Over the past 25 years prokaryotic systematics has been

Published names, but also reference to a central register of such important changes in taxonomic opinion. Scientists wishing to have changes in taxonomic opinion included in future lists should send one copy of the pertinent reprint or a photocopy or a PDF file thereof to the IJSEM Editorial Office or to the Lists Editor.

Analogous to the requirements for ‘publication’ as laid down for new names or new combinations, the requirements of Rule 25a and Rule 25b may be used as the basis for inclusion in the list. Only printed material (scientific periodicals or books) will be taken into consideration. No other kind of publication will be accepted nor are the following acceptable: (i) communications of taxonomic opinions at a meeting, in minutes of a meeting or in abstracts of papers presented at meetings; (ii) citation of taxonomic opinions in listings or catalogues of collections; (iii) distribution of microfilms, microcards or electronic files available on the Internet; (iv) reports in ephemeral publications, newsletters, newspapers or non-scientific periodicals or books; (v) inclusion of a taxonomic opinion in a published patent application or issued patent.

When creating synonyms authors must follow the Rules of priority (Rules 15, 17, 23a, 23b, 24b, 42, 43, 44, 45, 46, 47a and 47b). Particular attention should be given to Rules 15 and 17, which may have the effect of overruling Rules 42–47. It should also be noted that, when two taxa are considered to be heterotypic synonyms, an unavoidable consequence is the creation of an emended description of the taxon whose name has priority. When publishing changes in taxonomic opinion it is desirable that these changes be properly documented [cf. Rule 27(2) (De Vos & Trüper, 2000)]. Notably, the synonymous names or emendation of the description should be clearly stated and indicated as such (i.e. pro synon., emend.). The synonym having priority should be clearly indicated.

It must be stressed that the date of original publication not the date of publication of the list.

It is important to note that, in contrast to bacterial nomenclature, which is regulated by the International Code of Nomenclature of Bacteria, there is no ‘official’ classification of bacteria because taxonomy remains a matter of scientific judgment and general agreement (see Tindall, 1999). Taxonomic opinions included in the ‘List of Changes in Taxonomic Opinion’ cannot be considered as validly published nor, in any other way, approved by the International Committee on Systematics of Prokaryotes and its Judicial Commission. The names that are to be used are those that are the ‘correct names’ (in the sense of Principle 6) in the opinion of the bacteriologist, with a given circumscription, position and rank. A particular name, circumscription, position and rank does not have to be adopted in all circumstances.

Consequently, the ‘List of Changes in Taxonomic Opinion’ must be considered as a service to bacteriology and it has no ‘official character’, other than providing a centralized point for registering/indexing such changes in a way that makes them easily accessible to the scientific community.

In paying attention to the workings and purpose of the ‘List of Changes in Taxonomic Opinion’, as well as making full use of the mechanisms provided by these lists, it is hoped that this will serve as an additional vehicle for communicating
nomenclatural and taxonomic information to those bacteriologists who need to consult such registries/indexes.

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It is intended that an updated version of the Bacteriological Code will be made available via the Internet before the next IUMS Congress (San Francisco, 23–28 July 2005): an announcement will be made about this in the IJSEM in due course.

