Proposal of *Enterobacteriaceae* fam. nov., nom. rev. as a Substitute for the Family Name *Enterobacteriaceae* Rahn 1937

S. P. LAPAGE

National Collection of Type Cultures, Central Public Health Laboratory, London, NW9 5HT, England

In this article, the family name *Enterobacteriaceae* nom. rev. is proposed as a substitute for the name *Enterobacteriaceae*, which is not formed in conformity with the Rules of the International Code of Nomenclature of Bacteria.

The Judicial Commission (6) has recently reaffirmed Opinion 15 (4) and affirmed that the family name *Enterobacteriaceae* Rahn 1937 (type genus, *Escherichia* Castellanii and Chalmers 1919) has standing in nomenclature at this time and belongs on the Approved Lists of Bacterial Names (10). Nevertheless, the family name *Enterobacteriaceae* is not formed from the name of the type genus (*Escherichia*) in accordance with Rule 9 of the International Code of Nomenclature of Bacteria (8) or with Minute 9 of the 1978 Judicial Commission meeting (3), which states that "the Commission reaffirmed its policy of not permitting exceptions to the Rules on the formation of names of taxa." The proposal that the family name *Enterobacteriaceae* be replaced by the name *Enterobacteraeae* Lapage (7) has not met with universal approval (1, 2), and the family name *Enterobacteraeae* Ewing, Farmer, and Brenner 1980 (1) ex Rahn 1937 was explicitly revived under Rule 28a of the International Code of Nomenclature of Bacteria (1, 8), with the recommendation that the name be retained as in Opinion 15 (4) of the Judicial Commission (whose present action [6] has established the priority of *Enterobacteraeae* Rahn 1937).

In order to conform with Rule 9 of the International Code of Nomenclature of Bacteria, it still seems to me that the name *Enterobacteriaceae* with type genus *Enterobacter* is to be preferred to *Enterobacteraeae*: the use of *Enterobacteraeae* seems to be a better solution than the creation of a new family name, *Escherichiaeae*. Neither *Enterobacteraeae* nor *Enterobacteraeae* Lapage 1979 were included on the Approved Lists of Bacterial Names (10), although a footnote referred to the matter as sub judice. As the former name now belongs on the Approved Lists of Bacterial Names by action of the Judicial Commission (6), the alternative name *Enterobacteraeae* is hereby explicitly revived with a recommendation that the Judicial Commission reconsider the original proposal of Lapage (7), so that a family name is adopted that is in conformity with Rule 9 of the International Code of Nomenclature of Bacteria (thus closing the door to a possible multitude of future exceptions) and so that an end can be put to the uncertainty of the future validity of the name *Enterobacteriaceae* Rahn 1937, as expressed in the statement recently published on this subject by the Judicial Commission (6): "until and unless the Judicial Commission votes to support the proposal of Lapage, *Enterobacteriaceae* remains valid."

*Enterobacteriaceae* Lapage 1979 fam. nov., nom. rev. Gram-negative, rod-shaped cells which are peritrichous when motile. Endospores are not produced. Aerobic, facultatively anaerobic. Cells grow readily on peptone media and occasionally have special growth requirements. Metabolism is respiratory and fermentative; acid is produced from glucose and other carbohydrates. Usually aerogenic, but anaerogenic groups and mutants occur. Most species are catalase positive. Oxidase negative. Cells almost always reduce nitrates to nitrites. The guanine plus-cytosine content of the deoxyribonucleic acid ranges from 39 to 59 mol%.

The type genus is *Enterobacter* Hormaeche and Edwards 1960 (nom. cons.) (5).

LITERATURE CITED


