OPINION 23

Rejection of the Generic Names Nitromonas Winogradsky 1890
and Nitromonas Orla-Jensen 1909, Conservation of the
Generic Names Nitrosomonas Winogradsky 1892,
Nitrosococcus Winogradsky 1892, and Nitrobacter
Winogradsky 1892, and the Designation
of the Type Species of these Genera

Winogradsky (1890) proposed Nitromonas as the name of a new genus of bacteria characterized by the oxidation of ammonia. Later (1892) he proposed replacement of Nitromonas by Nitrosomonas and named the species Nitrosomonas europaea.

Winogradsky (1892) proposed Nitrosococcus as the name of a new genus of spherical bacteria which oxidized ammonia. He did not name the species which he described. Migula (1900) proposed the species name Micrococcus nitrosus. The new combination Nitrosococcus nitrosus (Migula) Buchanan 1925 is the nomenclatural type species.

Nitrobacter was proposed by Winogradsky (1892) as the name of a genus of bacteria that convert nitrites to nitrates. One species was described but not named. Winslow et al. (1917) proposed the specific epithet winogradskyi. The type species (monotypy) becomes Nitrobacter winogradskyi Winslow et al. 1917.

Orla-Jensen (1909) proposed Nitromonas as the name for a genus of bacteria which oxidize nitrites to nitrates. The name is a later homonym of Nitromonas Winogradsky 1890 and a later synonym of Nitrobacter Winogradsky 1892.

The following Opinion 23 was approved unanimously by the Judicial Commission and by the International Committee on Bacteriological Nomenclature at meetings held in August, 1958 in Stockholm, in connection with meetings of the VII International Microbiological Congress.

Opinion 23

1. The generic name Nitromonas Winogradsky 1890 is placed in the list of nomina generum rejicienda.

2. The generic name Nitromonas Orla-Jensen 1909 is a later homonym of Nitromonas Winogradsky 1890 and a later synonym of Nitrobacter Winogradsky (1892). It is placed in the list of nomina generum rejicienda.

3. The generic name Nitrosomonas Winogradsky 1892 is placed in the list of nomina generum conservanda with Nitrosomonas europaea Winogradsky 1892 as the nomenclatural type species.

4. The generic name Nitrosococcus Winogradsky 1892 is placed in the list of nomina generum conservanda, with the species described by Winogradsky and later named Nitrosococcus nitrosus (Migula) Buchanan 1925 as the nomenclatural type species.

5. The generic name Nitrobacter Winogradsky 1892 is placed in the list of nomina generum conservanda, with the species described by Winogradsky and later named Nitrobacter winogradskyi Winslow et al. 1917 as the nomenclatural type species.

REFERENCES

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