Revival of the Names *Spirochaeta litoralis*, *Spirochaeta zuelzeri*, and *Spirochaeta aurantia*

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The names *Spirochaeta litoralis* Hespell and Canale-Parola; *Spirochaeta zuelzeri* (Veldkamp) Canale-Parola, Udris, and Mandel; and *Spirochaeta aurantia* Vinzent, which were inexplicably omitted from the Approved Lists of Bacterial Names, are revived and validly published as specified in Rules 27 and 28a and Provisional Rules B2 and B3 of the International Code of Nomenclature of Bacteria.

The names *Spirochaeta litoralis* Hespell and Canale-Parola; *Spirochaeta zuelzeri* (Veldkamp) Canale-Parola, Udris, and Mandel; and *Spirochaeta aurantia* Vinzent inexplicably were not included in the recently published Approved Lists of Bacterial Names (11) after having been included in the first draft of these lists (1). The names of these three bacterial species were validly published before the publication of the Approved Lists (see below).

The purpose of this note is to revive these names and to effect their valid publication, as specified in Rules 27 and 28a, and Provisional Rules B2 and B3 of the International Code of Nomenclature of Bacteria (10). Listed below are references to effectively published descriptions of the three above-mentioned taxa. Descriptions of the three species have also been published in *Bergey's Manual of Determinative Bacteriology* (4).

***Spirochaeta litoralis* sp. nov., nom. rev.**
This organism was originally named and described by Hespell and Canale-Parola (8). A detailed study and description of the metabolism of this species has been published (9). Type strain: ATCC 27000 (= strain R1). The description of the type strain is identical to that of the species.

***Spirochaeta zuelzeri* sp. nov., nom. rev.**
This species was originally described by Veldkamp (12), who named it *Treponema zuelzeri*; later it was renamed *Spirochaeta zuelzeri* (7). Type strain: ATCC 19044. The description of the type strain is identical to that of the species.

***Spirochaeta aurantia* sp. nov., nom. rev.**
This species was originally named and described by Vinzent in 1926 (13). More recently, a detailed description was published by Breznak and Canale-Parola (3). The morphology, motility, chemotaxis, and general physiology of this species have been studied and described extensively (2, 5, 6, and references therein). Type strain: ATCC 25082 (= strain J1). The type strain differs from some of the other strains in this species in being

more loosely coiled, and it differs from all the other strains in requiring an exogenous supply of biotin for growth (3).

REPRINT REQUESTS

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