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Complete Genome Sequences of Three *Staphylococcus pseudintermedius* Strains Isolated from Botswana

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ABSTRACT We report here the first whole-genome sequences for 3 strains of *Staphylococcus pseudintermedius* (112N, 113N, and 114N) isolated in Africa. Samples of this opportunistic pathogen were collected from nasal swabs obtained from healthy carrier dogs in Botswana. The sequence information will facilitate spatial phylogenetic comparisons of staphylococcal species and other bacteria at the genome level.

Staphylococcus pseudintermedius is a Gram-positive, coagulase-positive bacterium commonly found as part of the normal skin and nasal flora of healthy dogs (1, 2). It is frequently associated with skin, soft tissue, and wound infections and less often with pneumonia and urinary tract infections similar to those caused by *Staphylococcus aureus* (2, 3). *S. pseudintermedius* infrequently colonizes the nasal mucosa of humans, where it has been associated with infections primarily from bite wounds or in immunocompromised individuals (3).

Most phenotypic and genotypic studies have been performed with methicillin-resistant *S. pseudintermedius* strains (1, 4–6). However, variability of phenotypic and genotypic features, including virulence, molecular epidemiology, and biological characteristics, have not been fully explored in methicillin-susceptible *S. pseudintermedius* (MSSP) isolates (7).

Whole-genome shotgun projects for *S. pseudintermedius* strains have been deposited at DDBJ/ENA/GenBank, including European *S. pseudintermedius* isolates (4, 6) and genomes from dominant clonal lineages in North America (6), but no complete genomes for *S. pseudintermedius* strains from the African continent are available and distinct geographical strain differences have been observed in this species (1, 4, 6, 8–13).

Whole-genome sequencing of MSSP isolates from Botswana will facilitate identification of genetic relatedness of these isolates with previously published MRSP and MSSP strains (1, 4–6, 12, 13) and facilitate evolutionary studies of staphylococcal species and other bacteria at the genome level.

All Botswana *S. pseudintermedius* strains were sequenced using Illumina MiSeq (Illumina, Inc., USA), with two runs (75 bp forward and reverse) generating a total of 1,091,288, 1,219,855, and 1,171,515 reads for *S. pseudintermedius* 112N, 113N, and 114N strains, respectively, with overall coverage of >250-fold. The resulting reads for each sequence were assembled using Geneious version 11.0.4 (14). The NCBI Prokaryote Genome Annotation Pipeline software version 4.3 was used for annotating the genomes.

The 112N genome is 2,516,677 bp (291 contigs of 500 bp or greater) with a 37.7% GC content, 2,375 predicted coding sequences, and 67 predicted RNAs. The 113N genome is 2,490,161 bp (96 contigs) with a 37.6% GC content, 2,257 predicted coding

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sequences, and 72 predicted RNAs. The 114N genome is 2,546,835 bp (84 contigs) with a 37.5% GC content, 2,301 predicted coding sequences, and 72 predicted RNAs. The strains have unique multilocus sequence types (ST) (12) including ST887, ST888, and ST889 for *S. pseudintermedius* 112N, 113N, and 114N, respectively.

Accession number(s). These whole-genome sequences of *Staphylococcus pseudintermedius* 112N, 113N, and 114N strains have been deposited at DDBJ/ENA/GenBank under the accession numbers [PJUS00000000](https://doi.org/10.1128/genomeA.01651-16), [PJUR00000000](https://doi.org/10.1128/genomeA.01651-16), and [PJUQ00000000](https://doi.org/10.1128/genomeA.01651-16), respectively. The *Staphylococcus pseudintermedius* 112N, 113N, and 114N versions described in this paper are versions PJUS02000000, PJUR01000000, and PJUQ01000000, respectively.

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