We report here the first genome assembly and annotation of the human-pathogenic fungus *Scedosporium aurantiacum*, with a predicted 10,525 genes, and 11,661 transcripts. The strain WM 09.24 was isolated from the environment at Circular Quay, Sydney, New South Wales, Australia.

*Scedosporium aurantiacum* is a hyphomycetous filamentous fungus found in various environments such as soil, sewage and polluted waters (1). It is an emerging opportunistic pathogen capable of causing a range of infections that are especially abundant in Australia (2). To enable the genetic characterization of the virulence and high antifungal resistance potential of this species (3), the genome of the environmental, highly virulent *S. aurantiacum* strain WM 09.24, collected from Circular Quay, Sydney, NSW, Australia, in 2009, was sequenced (A. Harun and W. Meyer, unpublished data). The isolate selection was based on a global multilocus sequence typing (MLST) study (A. Harun and W. Meyer, unpublished data) and determination of its virulence using the *Galleria mellonella* model (S. Duan and W. Meyer, unpublished data).

Genomic DNA was sequenced (paired-end [PE] reads) on Illumina HiSeq 2000 at the Ramaciotti Centre for Genomics, University of New South Wales (UNSW), Sydney, NSW, Australia. Trimmomatic (version 0.27) (4) was used to clip off adapters and trim the reads prior to assembly with SPAdes (version 3.1.1) (5). After correction with REAPR (version 1.0.16) (6), and discarding of scaffolds <200 nucleotides (nt), the assembly consisted of 1,584 scaffolds (202 nt to 380,183 nt in length) and had a total genome size of 39,890,731 nt with 49.20% GC content. The assembly’s *N*$_{50}$ was 78,269 nt and *N*$_{90}$ was 16,521 nt and was calculated to have an average coverage of 162× over all 1,584 contigs. The CEGMA pipeline (7) indicated an assembly completeness of 93.15%. RepeatMasker version open-4.0.3 (http://www.repeatmasker.org) was used to identify repeats in the genome assembly and 1.96% of the bases were masked.

To facilitate genome annotation, RNA-seq was obtained from *S. aurantiacum* strain WM 09.24 grown in different media at 25°C and 37°C, pertaining to environmental and human host growth conditions, respectively, as follows: (i) water medium for starvation, (ii) potato dextrose (PD) to promote good general growth, and (iii) artificial sputum medium (ASM) to simulate growth conditions in an infected lung of a cystic fibrosis (CF) patient (8; M. Ramsperger and W. Meyer, unpublished data). Single-end (SE) reads of 100 bp were generated using the Illumina HiSeq 2500 at the Biomedical Research Facility (BRF) at the John Curtin School for Medical Research (JCSMR), Australian National University (ANU), Canberra, ACT, Australia. Genome annotation was performed using the JAMg pipeline (9) and GMAP (version 2014-12-06) (10). We predicted 10,525 gene models and 11,661 transcripts for the genome assembly of *S. aurantiacum* strain WM 09.24. The number of inferred genes in *S. aurantiacum* is comparable to *Trichoderma virens*, which has 12,400 genes (11), and to the recently published genome of *Scedosporium apiospermum* strain IHEM 14462, which was found to have 10,919 coding sequences (CDGs) (12).

The herein-reported high-quality draft assembly of the environment and highly virulent *S. aurantiacum* strain WM 09.24, together with the recently published genome of *S. apiospermum* strain IHEM 14462 (12) will provide fundamental genomics resources to study the genetic basis of virulence and antifungal resistance in this genus.

**Nucleotide sequence accession numbers.** This whole genome shotgun project has been deposited at DDBJ/EMBL/GenBank under the accession number JUDQ0000000. The version described in this paper is the first version, JUDQ01000000.

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