




**Supplementary information to:**

**Original article:**

**MOLECULAR CHARACTERIZATION AND IMPROVED  
DIAGNOSTICS OF *NOCARDIA* STRAINS ISOLATED OVER THE  
LAST TWO DECADES AT A GERMAN TERTIARY CARE CENTER**

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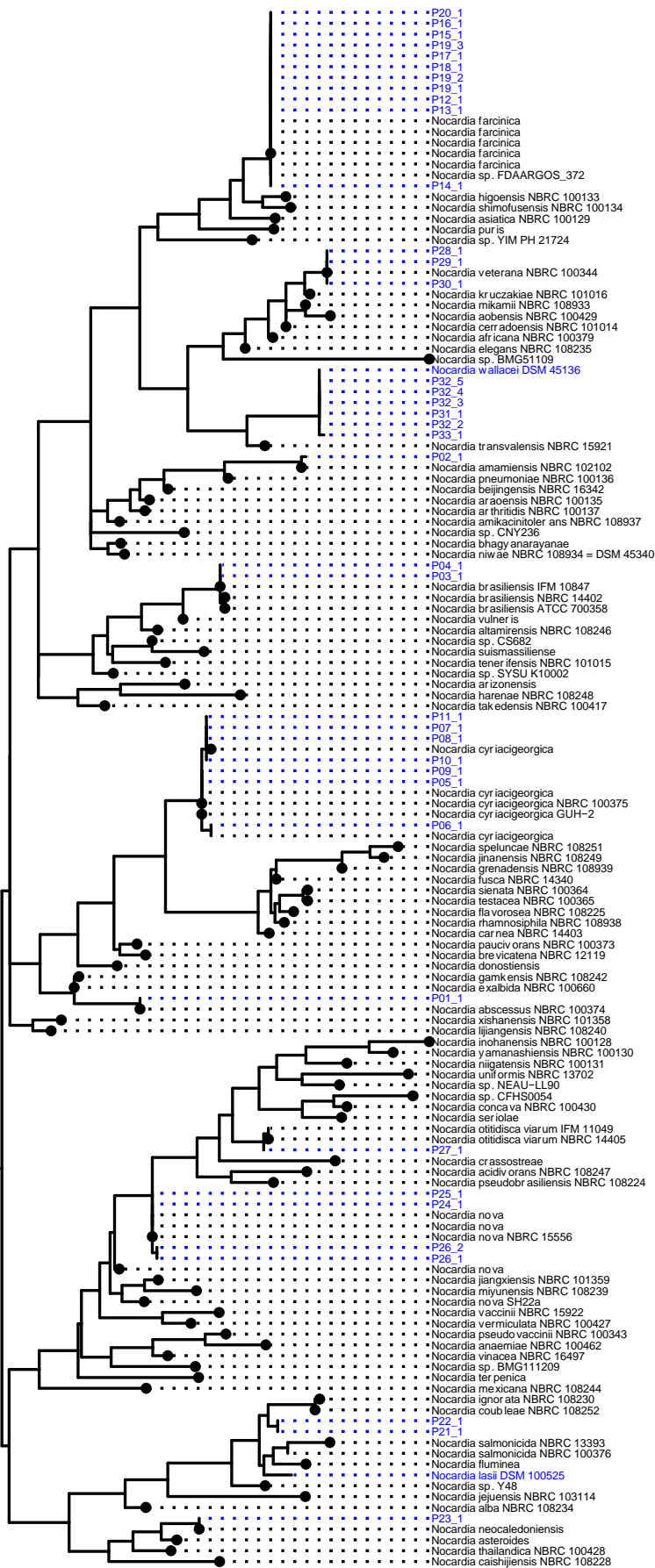
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**Supplementary Table 1:** Overview of all *Nocardia* strains with their site of infection

Strain	WGS-based identification (ANI to the closest neighbor [%])	Site of infection	Immunosuppression
P01_1	<i>Nocardia abscessus</i> NBRC 100374 (95.6)	respiratory tract	no
P02_1	<i>Nocardia amamiensis</i> NBRC 102102 (93.9)	respiratory tract	no
P03_1	<i>Nocardia brasiliensis</i> IFM 10847 (98.7)	elbow bursitis	no
P04_1	<i>Nocardia brasiliensis</i> IFM 10847 (98.7)	facial cellulitis and lymphadenitis	no
P05_1	<i>Nocardia cyriacigeorgica</i> (98.3)	respiratory tract	yes
P06_1	<i>Nocardia cyriacigeorgica</i> (99.7)	respiratory tract	yes
P07_1	<i>Nocardia cyriacigeorgica</i> GUH-2 (98.4)	respiratory tract	no
P08_1	<i>Nocardia cyriacigeorgica</i> GUH-2 (98.2)	respiratory tract	yes
P09_1	<i>Nocardia cyriacigeorgica</i> (97)	respiratory tract	yes
P10_1	<i>Nocardia cyriacigeorgica</i> GUH-2 (98.3)	brain abscess	yes
P11_1	<i>Nocardia cyriacigeorgica</i> GUH-2 (98.3)	respiratory tract	yes
P12_1	<i>Nocardia farcinica</i> (99.4)	respiratory tract	yes
P13_1	<i>Nocardia farcinica</i> (99.3)	pleural infection	yes
P14_1	<i>Nocardia farcinica</i> (99.1)	respiratory tract	no
P15_1	<i>Nocardia farcinica</i> (99.3)	respiratory tract	no
P16_1	<i>Nocardia farcinica</i> (99.1)	respiratory tract and brain abscess	yes
P17_1	<i>Nocardia farcinica</i> (99.1)	respiratory tract	yes
P18_1	<i>Nocardia farcinica</i> (99.2)	respiratory tract	yes
P19_1	<i>Nocardia farcinica</i> (99.1)	respiratory tract	yes
P19_2	<i>Nocardia farcinica</i> (99)	respiratory tract	yes
P19_3	<i>Nocardia farcinica</i> (99.1)	respiratory tract	yes
P20_1	<i>Nocardia farcinica</i> (99.1)	respiratory tract and throat abscess	yes
P21_1	<i>Nocardia salmonicida</i> NBRC 13393 (89)	pleural infection	yes
P22_1	<i>Nocardia salmonicida</i> NBRC 13393 (89)	intraabdominal infection	no
P23_1	<i>Nocardia neocaledoniensis</i> (93.2)	respiratory tract	yes
P24_1	<i>Nocardia nova</i> (99.3)	tenosynovitis hand	yes
P25_1	<i>Nocardia nova</i> NBRC 15556 (99.5)	respiratory tract	yes
P26_1	<i>Nocardia nova</i> (99.2)	respiratory tract	yes
P26_2	<i>Nocardia nova</i> (99.2)	respiratory tract	yes
P27_1	<i>Nocardia otitidiscaviarum</i> IFM 11049 (98.1)	central nervous system	yes
P28_1	<i>Nocardia veterana</i> NBRC 100344 (98.9)	respiratory tract	yes
P29_1	<i>Nocardia veterana</i> NBRC 100344 (98.9)	respiratory tract	yes
P30_1	<i>Nocardia veterana</i> NBRC 100344 (98.9)	respiratory tract	yes
P31_1	<i>Nocardia wallacei</i> (99.3)	respiratory tract	yes
P32_2	<i>Nocardia wallacei</i> (99.4)	respiratory tract	yes
P32_3	<i>Nocardia wallacei</i> (99.3)	respiratory tract	yes
P32_4	<i>Nocardia wallacei</i> (99.4)	respiratory tract	yes
P32_5	<i>Nocardia wallacei</i> (99.4)	respiratory tract	yes
P33_1	<i>Nocardia wallacei</i> (99.1)	respiratory tract	yes



**Supplementary Figure 1:** Phylogenetic tree based on 16S rRNA genes from all isolates of this study (blue) and from *Nocardia* reference genomes of the Genome Taxonomy Database (GTDB), where all closest matching references (based on Average Nucleotide Identity shown in Figure 1) as well as all representative genomes of individual species (highlighted with a dot at the tip) were included. The two references from the German Collection of Microorganisms (DSMZ) sequenced in this study are shown in blue.