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Prescottia equi gen. nov., comb. nov.: A new home for an old pathogen

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Table S1. Designation, source and strain histories of the tested organisms.

Designation and laboratory number	Source and strain history
<p>Genus <i>Corynebacterium</i> Lehmann & Neumann 1896^{AL} emend. Stackebrandt, Rainey and Ward-Rainey 1997, emend. Zhi, Li and Stackebrandt 2009.</p>	
<p><i>Corynebacterium ammoniagenes</i> (Cooke & Keith 1927) Collins 1987^{VP}</p>	
N 1277 ^T	DSM 20306 ^T ; H.G. Schlegel; K. Komagata; ATCC 6871 ^T ; NCTC 8143 ^T ; J.V. Cook, strain 9.6. [AJ 1443]; stool of infant
<p><i>Corynebacterium amycolatum</i> Collins <i>et al.</i> 1988^{VP}</p>	
N 1278 ^T	DSM 6922 ^T ; NCFB 2768 ^T ; D. Jones; R.R. Marples, strain S160; human skin
<p><i>Corynebacterium callunae</i> (Lee & Good 1963) Yamada & Komagata 1972^{AL}</p>	
N 1279 ^T	DSM 20147 ^T ; ATCC 15991 ^T ; NRRL B-2244 ^T ; International Mineral and Chemical Corporation
<p><i>Corynebacterium vitaeruminis</i> corrig. (Bechdel <i>et al.</i> 1928) Lanéelle <i>et al.</i> 1980^{VP}</p>	
N 1276 ^T	DSM 20294 ^T ; H.G. Schlegel; K. Komagata; ATCC 10234 ^T ; M.A. Farrell (<i>Flavobacterium vitarumen</i>)
<p>Genus <i>Dietzia</i> Rainey <i>et al.</i> 1995^{VP} emend. Kämpfer <i>et al.</i> 2010</p>	
<p><i>Dietzia maris</i> Rainey <i>et al.</i> 1995^{VP}</p>	
N 1015 ^{TSP} , N 1021, N 1022, N 1024, N 1025	O.A. Nesterenko, Institute of Microbiology and Virology, Kiev, Ukraine; IMV 1951; IMV 294; IMV 324; IMV 392; IMV 6781; soil
<p><i>Dietzia papillomatosis</i> Jones <i>et al.</i> 2008^{VP}</p>	
N 1280 ^T	R.J. Keorner, Microbiology Department, Sunderland Royal Hospital, Kayll Road, Sunderland, UK; strain MC 38305; isolated from an immunocompetent patient with reticulated papillomatosis
<p>Genus <i>Gordonia</i> (Tsukamura 1971) Stackebrandt <i>et al.</i> 1989^{VP}</p>	
<p><i>Gordonia aichiensis</i> (Tsukamura 1982) Klatte <i>et al.</i> 1994^{VP}</p>	
N 934 ^T	M. Tsukamura, Chubu Chest Hospital, Obu, Aichi-chen 474, Japan; strain E7776; sputum
<p><i>Gordonia alkanivorans</i> Kummer <i>et al.</i> 1999^{VP}</p>	
N 1267 ^T	DSM 44369 ^T ; tar, and phenol contaminated soil of a former tar factory, Rosnitz, Thuringia, Germany
<p><i>Gordonia amarae</i> (Lechevalier & Lechevalier 1974) Klatte <i>et al.</i> 1994^{VP}</p>	
N 667 ^T	M.P. Lechevalier, Rutgers University, New Brunswick., USA; strain Se6; foam in activated sludge sewage treatment plant, Andover, Miami, Florida, USA. (IMRU W3960 ^T ; ATCC 27808 ^T)

Designation and laboratory number	Source and strain history
<i>Gordonia amicalis</i> Kim <i>et al.</i> 2000^{VP}	
N 1282 ^T	DSM 44461 ^T ; M. Goodfellow; C. Oldfield; S. Iliarionov; strain IEGM; garden soil, Perm, Russia
“<i>Gordonia australis</i>” Ferreira & Tracey, 1984	
N 1281 ^{PT}	N.P. Ferreira, Microbiology Research Group, CSIR, Pretoria, South Africa; river bank soil (“ <i>Rhodococcus australis</i> ”, A554 ^{PT})
<i>Gordonia bronchialis</i> (Tsukamura 1971) Stackebrandt <i>et al.</i> 1989^{VP}	
N 654 ^{TSP}	NCTC 10667 ^T ; M. Tsukamura, strain 3410; H. Kondo, sputum, pulmonary lesion
<i>Gordonia desulfuricans</i> Kim <i>et al.</i> 1999^{VP}	
N 1283 ^T , N 1284	M. Goodfellow; C. Oldfield, 213E ^T (NCIMB 40816 ^T); 213F (NCIMB 40817); soil from an oil shale spoil heap near a disused mine located at West Calder, West Lothian, Scotland, UK
<i>Gordonia hirsuta</i> Klatte <i>et al.</i> 1996^{VP}	
N 1241 ^T	DSM 44140 ^T ; S. Klatte, strain K718a; packing material of biofilter, waste gas treatment plant
<i>Gordonia hydrophobica</i> Bendinger <i>et al.</i> 1995^{VP}	
N 1123 ^T	DSM 44015 ^T ; B. Bendinger, strain 1610/1b; isolated from the packing material of a biofilter used for biological odor abatement of animal rendering emissions
<i>Gordonia namibiensis</i> Brandão <i>et al.</i> 2002^{VP}	
N 1358 ^T , N 1359	A. T. Bull, Research School of Biosciences, University of Kent, Canterbury, Kent, UK; strains NAM-BN063A and NAM-BN063B; Kalahari soil, Namibia
<i>Gordonia nítida</i> (Yoon <i>et al.</i> 2000) Arenskötter <i>et al.</i> 2005^{VP}	
N 1345 ^T	Y.H. Park, Korea Research Institute of Bioscience and Biotechnology, PO Box 115, Yusong, Taejon, Republic of Korea; strain LE31; industrial wastewater, Republic of Korea
<i>Gordonia polyisoprenivorans</i> Linos <i>et al.</i> 1999^{VP}	
N 1268 ^T	DSM 44302 ^T ; strain Kd2; fouling tyre water inside a deteriorated automobile tyre on a farmer's field in Münster, Germany
<i>Gordonia rhizosphaera</i> Takeuchi & Hatano 1998^{VP}	
N 1258 ^T	M. Takeuchi, Institute for Fermentation, Osaka, Japan; strain 141 (IFO 16068 ^T); isolated from soil from the surface of fine roots of <i>Bruguiera gymnorrhiza</i> Lamk. in the Shiira River Estuary, Iriomote Island, Japan

Designation and laboratory number	Source and strain history
<i>Gordonia rubripertincta</i> (Hefferan 1904) Stackebrandt <i>et al.</i> 1989^{VP}	
N 4 ^T	NCIB 9664 ^T ; ATCC 14352 ^T ; R.S. Breed; R.E. Gordon, strain 154; soil
<i>Gordonia sputi</i> (Tsukamura 1978) Stackebrandt <i>et al.</i> emend. Riegel <i>et al.</i> 1994^{VP}	
N 930 ^T , N 935	DSM 43896 ^T ; M. Tsukamura, strainS E3884 and E8183; sputum
<i>Gordonia terrae</i> (Tsukamura 1971) Stackebrandt <i>et al.</i> 1989^{VP}	
N 659 ^T	NCTC 10669 ^T ; M. Tsukamura, strain 3612; soil
<i>Gordonia westfalica</i> Linos <i>et al.</i> 2002^{VP}	
N 1285 ^T	DSM 44215 ^T ; A. Steinbüchel, strain Kb 2; fouling tyre water on a farmer's field, Germany
Genus <i>Mycobacterium</i> Lehmann & Neumann 1896^{AL}	
<i>Mycobacterium aurum</i> Tsukamura 1966^{AL}	
M 401 ^T	DSM 43999 ^T ; M. Tsukamura, strain 358; soil
<i>Mycobacterium fortuitum</i> da Costa Cruz 1938^{AL}	
N 294 ^T	ATCC 6841 ^T ; R.E. Gordon; cold abscess
<i>Mycobacterium peregrinum</i> Kusunoki & Ezaki 1992^{VP}	
M 206 ^T	L.F. Bojalil, Hospital Infantil, Mexico, strain 6020 (<i>Mycobacterium fortuitum</i> subsp. <i>fortuitum</i>); bronchial aspiration
<i>Mycobacterium phlei</i> Lehmann & Neumann 1899^{AL}	
N 290 ^T	ATCC 11758 ^T ; G. Penso, strain TMC 1548
<i>Mycobacterium smegmatis</i> (Trevisan 1889) Lehmann & Neumann 1899^{AL}	
N 292 ^T	ATCC 14468 ^T ; M. Ridell, strain GA 735; NCTC 8159; R. E. Gordon
Genus <i>Nocardia</i> Trevisan 1889^{AL}	
<i>Nocardia asteroides</i> (Eppinger 1891) Blanchard 1896^{AL}	
N 317 ^{TSP}	M. Ridell, Medical Microbiology, Gothenburg University, S-41346, Gothenburg, Sweden; strain GA 875 ^T ; ATCC 19247 ^T ; R.E. Gordon, 727; L. Ajello, M 170-6 ^T ; W. Bowman, PSA 165 ^T
<i>Nocardia brasiliensis</i> (Lindenberg 1909) Pinoy 1913^{AL}	
N 318 ^T	R.E. Gordon, IMRU 845; J. Schneidau, Jr. 381; A. Batista, 631, strain 337
<i>Nocardia carnea</i> (Rossi Doria 1891) Castellani & Chalmers 1913^{VP}	
N 1087 ^T	R.E. Gordon, IMRU 3419; V. Putoni
<i>Nocardia farcinica</i> Trevisan 1889^{AL}	

Designation and laboratory number	Source and strain history
N 671 ^T	M. Ridell, strain GA 919; M. Goodfellow, strain M 258; M.P. Lechevalier; ATCC (<i>Nocardia asteroides</i>); R.E. Gordon; Madura foot
N 1243	R.J. Seviour, Biotechnology Research Centre, La Trobe University, Bendigo, Victoria, Australia; strain GD1
<i>Nocardia nova</i> Tsukamura 1983^{VP}	
N 1112 ^T	JCM 6044 ^T ; M. Tsukamura, 23095 ^T ; R.E. Gordon, strain R443; I.B. Christison; N.F. Conant, 2338
<i>Nocardia otitidiscaviarum</i> corrig. Snijders 1924^{AL}	
N 1158 ^T	NCTC 1934 ^T ; E.P. Snijders (<i>Nocardia caviae</i>); infected middle ear of guinea pig
<i>Nocardia seriolae</i> Kudo <i>et al.</i> 1988^{VP}	
N 1116 ^T	JCM 3360 ^T ; K. Hatai, strain NA 8191, (" <i>Nocardia kampachi</i> "); spleen of yellowtail (<i>Seriola quinqueradiata</i>)
<i>Nocardia vaccinii</i> Demaree & Smith 1952^{VP}	
N 1199 ^T	K. Kieslich, Microbial Transformation Research GRP, Gesellschaft Biotechnologie Forschung MBH, Mascheroder Weg 1, W-3300 Braunschweig, Germany, Schering 245; ATCC 11092 ^T ; N.R. Smith, strain BG 19; stem galls on blueberry
<i>Nocardia</i> sp.	
N 1286	J.D. Perry, Department of Microbiology, Freeman Hospital, Newcastle upon Tyne, NE7 7DN, UK; strain BAL 267427; bronchial lavage from an immunocompromised patient
Genus <i>Rhodococcus</i> (Zopf 1891) emend. Goodfellow <i>et al.</i> 1998	
<i>Rhodococcus aetherivorans</i> Goodfellow <i>et al.</i> 2003^{VP}	
N 1347, N 1348	J. Salanitro, Equilon Enterprises LLC, Westhollow Technology Centre, Houston, Texas, USA; strains 10BC-312 ^T and BC 663
<i>Rhodococcus coprophilus</i> Rowbotham & Cross 1979^{VP}	
N 744 ^T	T.J. Rowbotham, Department of Biological Sciences, University of Bradford, Bradford, UK; lake water, Blelham Tarn, Cumbria, lake mud, Hawksworth Mere, Guiseley, Leeds, CUB 687
<i>Rhodococcus equi</i> (Magnusson 1923) Goodfellow & Alderson 1977^{AL}	
C 58	NCTC 4219; soil
C 7 ^T	D. Jones, Department of Microbiology, University of Leicester, Leicester, UK; strain C48; NCTC 1621; R.S. Robinson; H. Magnusson; lung abscess of foal

Designation and laboratory number	Source and strain history
N 1287, N 1288	J.F. Prescott, University of Guelph, Guelph, Ontario, Canada; strain 28 plasmid +ve, pig isolate; strain 28 plasmid -ve, pig isolate
N 1289, N 1290, N 1291, N 1292, N 1293	J.F. Prescott, ATCC 33701 plasmid +ve, horse lung; ATCC 33701 plasmid -ve, horse lung; ATCC 33702, dog skin; ATCC 33703, pig lymph node; ATCC 33704, pig lymph node
N 1294, N 1295, R 168, R 169	M. Barton, University of Adelaide, Australia; strain A3-8 (CUB 1114), equine pus, 1985; strain A3-22 (CUB 1116), equine lung abscess, 1987; strain 50, soil; strain 187, porcine isolate
N 1301	H.I. Dodson, University of Bradford, Richmond Road, Bradford, West Yorkshire, BD7 1DP, UK; strain SG1 (CUB 1232), sediment, River Wharfe, Green Lane, Otley
N 1303, N 1304, N 1305	J.M. Brown, Center for Disease Control, Atlanta, USA; strain W4860 (CUB 1152), human, Brazil; bronchial lavage, AIDS case, 1990; strain W4982 (CUB 1156), human, Delaware, USA; blood, AIDS case, 1987; strain W6497 (CUB 1196), human, North Carolina, USA, blood, leukaemia, 1997
N 1306, N 1307, N 1308	N. Chanter, Animal Health Trust, Newmarket, UK; (CUB 1237), foal isolate, pre 1990; strain 6132 (CUB 1239), 1994, isolate from abdominal abscess of foal, Suffolk; strain 5292 (CUB 1242), 1994, respiratory isolate from tracheal wash fluid of pony
N 1309, N 1310	A. von Graevenitz, Institute of Medical Microbiology, University of Zurich; strain req21 (CUB 1258), clinical isolate; strain req25 (CUB 1261); clinical isolate
N 1311	C. Contreras, Instituto Nacional de Diagnóstico y Referencia Epidemiológicas (INDRE), Carpio 470, Col. Santo Tomás, CP. 11340, Mexico City, Mexico; AIDS patient with pneumonia, strain MX 14
R 163, R 164, R 165, R 167, R 170, R 172, R 173, R 174	M. Mutimer, Department of Veterinary Pathology and Public Health, University of Queensland, Brisbane, Australia; strain 24, foal isolate; strain 24, porcine isolate; strain 187, porcine isolate; strain 31, soil; strain 110, soil; strain 156, bovine isolate; strain 169, bovine isolate; strain 26, isolate from cat
<i>Rhodococcus erythropolis</i> (Gray & Thornton 1928) Goodfellow & Alderson 1979^{VP}	
N 11 ^T	ATCC 25544 ^T ; DSM 43066 ^T ; IMET 7462 ^T ; NCIB 9158 ^T ; M. Kocur, BS277; P.H.H. Gray, strain 0-5
N 58, N 60	R.E. Gordon, strain 1257, isolated from soil (<i>N. restrictus</i>); strain 1293R (<i>Arthrobacter</i> sp)

Designation and laboratory number	Source and strain history
N 1227	A.J. Blakey, University of Sunderland, Sunderland, UK; strain Ag 192, chemically contaminated soil
R 285	NCIB 9706
<i>Rhodococcus fascians</i> (Tilford 1936) Goodfellow 1984^{VP}	
N 1062	NCPPB 3067
R 260 ^T	NCPPB 188 ^T ; W.J. Dowson, UK; isolated from <i>Chrysanthemum morifolium</i>
R 263	NCPPB 1733; J. Oxtoby, strain C12; isolated from <i>Beloperone guttata</i>
R 267	NCPPB 2554, L.A.E. Baker, strain 256/2/1d; isolated from <i>Phlox</i> sp.
<i>Rhodococcus globerulus</i> Goodfellow <i>et al.</i> 1985^{VP}	
R 58 ^T	R.E. Gordon, ATCC 25714 soil
<i>Rhodococcus gordoniae</i> Jones <i>et al.</i> 2004^{VP}	
N 1344 ^T	J.M. Brown; strain W4937; blood culture of an immunocompetent patient with fatal pneumonia associated with adult respiratory disease syndrome
<i>Rhodococcus koreensis</i> Yoon <i>et al.</i> 2000^{VP}	
N 1356 ^T	Y.H. Park, strain DNP 505; industrial wastewater
"<i>Rhodococcus luteus</i>" (Söhngen 1913) Nesterenko <i>et al.</i> 1982^{AL}	
N 913	E.G. Jeffreys, ICI Pharmaceuticals Division, Macclesfield, England, UK; strain GN smooth
N 1008 ^T , N 1027, N 1028, N 1029, N 1032	O.A. Nesterenko, IMV 385; IMV 27; IMV 391; IMV 202; IMV 419; soil
N 1034	R.E. Gordon, strain 587
<i>Rhodococcus maanshanensis</i> Zhang <i>et al.</i> 2002^{VP}	
N 1313 ^T	J. Zhang, State Key Laboratory of Microbial Resources, Institute of Microbiology, Chinese Academy of Sciences, Beijing 100080, People's Republic of China; strain M 712 ^T ; soil, Maanshan Mountain, Anhui Province, China
<i>Rhodococcus marinonascens</i> Helmke & Weyland 1984^{VP}	
N 1056 ^T	NCIMB 2246 ^T ; H. Weyland, strain 3438W; marine sediment
<i>Rhodococcus opacus</i> Klatte <i>et al.</i> 1994^{AL}	
N 1250 ^T	DSM 43205 ^T ; D. Siebert; soil
<i>Rhodococcus percolatus</i> Briglia <i>et al.</i> 1996^{VP}	
N 1239 ^T	DSM 44240 ^T ; 2,4,6-TCP enrichment culture in a percolator inoculated with contaminated sludge and sediment samples

Designation and laboratory number	Source and strain history
<i>Rhodococcus pyridinivorans</i> Yoon et al. 2000^{VP}	
N 1360 ^T	J.H. Yoon, Korea Research Institute of Bioscience and Biotechnology, PO Box 115, Yusong, Taejeon, Republic of Korea; strain PDB9; industrial wastewater
<i>Rhodococcus rhodnii</i> Goodfellow & Alderson 1977^{VP}	
N 443, N 444, N 445 ^T , N 446	P. Hill, Department of Zoology, University of Edinburgh, Edinburgh, U.K.; intestinal tract of <i>Rhodnius prolixus</i> , strains A/1; A/0; B/O and B/1
<i>Rhodococcus rhodochrous</i> (Zopf 1891) Tsukamura 1974^{AL}	
N 5	NCIB 9701; H. Borriss
N 54 ^{TSP}	ATCC 13808 ^T ; R.E. Gordon, strain 372; R.S. Breed, KMRh; Kral collection; W. Migula; W. Zopf
N 75	LA 1609 (<i>Nocardia rubra</i>)
N 83	S. T. Williams, Department of Botany, University of Liverpool, Liverpool, Merseyside, UK; strain E40, (CBS)
<i>Rhodococcus roseus</i> (Zopf 1891) Tsukamura 1974 emend. Rainey et al. 1995^{VP}	
N 1314 ^T	DSM 43274 ^T ; K. Kieslich, Schering 212, (<i>Mycobacterium rhodochrous</i>); ATCC; E.O. Jordan (<i>Bacillus mycoides</i> subsp. <i>roseus</i> II)
<i>Rhodococcus ruber</i> (Kruse 1896) Goodfellow & Alderson 1979^{VP}	
N 111	R. E. Gordon, strain 562 (<i>Proactinomyces ruber</i>); N. M. McClung; CBS
N 324	ATCC 15998; G. Castelnuova; L. Pellegrino
N 325	G. Castelnuova, Institut Pasteur, Instituto Superiore Di Sanita, Rome, Italy; strain 906 B
N 361 ^T	M. Tsukamura, strain M-1; I. Uesaka; N.M. McClung; DSM 43338 ^T
N 422, N 423	A. Tacquet, Pasteur Institut, Lille, France; strains 107 and 330 (<i>Nocardia pellegrino</i>)
N 447	R. Bönicke, Institut für experimentelle Biologie and Medizin, Borstel, Germany; strain SN5108
<i>Rhodococcus wratislaviensis</i> (Goodfellow et al. 1995) Goodfellow et al. 2002^{VP}	
N 801, N 802	R.E. Gordon, IMRU 563 and IMRU 669 (<i>aurantiaca</i> group); N.M. McClung (<i>Nocardia</i> sp.) and strain 33; soil
N 805 ^T	R.E. Gordon, IMRU 878 (<i>aurantiaca</i> group); D.M. Powelson, strain J-17 (<i>Jensenia</i> sp.)
N 806, N 809	R.E. Gordon, IMRU 1385 and IMRU 1397 (<i>aurantiaca</i> group); J.J. Perry, strains R-22 and P101-W; soil
<i>Rhodococcus zopfii</i> Stoecker et al. 1994^{VP}	

Designation and laboratory number	Source and strain history
N 1242 ^T	DSM 44108 ^T ; J.T. Stanley, strain T1; bioreactor (ATCC 51349)
Genus <i>Tsukamurella</i> Collins <i>et al.</i> 1988^{VP}	
<i>Tsukamurella inchonensis</i> Yassin <i>et al.</i> 1995^{VP}	
N 1238 ^T	DSM 44067 ^T ; H.J. Lee; blood culture of a patient who ingested HCl
<i>Tsukamurella paurometabola</i> corrig. (Steinhaus 1941) Collins <i>et al.</i> 1988^{VP}	
N 663 ^{TSP}	NCTC 10741 ^T (<i>Rhodococcus aurantiacus</i>); M. Tsukamura strain 3462; A. Kruse; sputum
<i>Tsukamurella pulmonis</i> Yassin <i>et al.</i> 1996^{VP}	
N 1240 ^T	A.F. Yassin, Institut für Medizinische Mikrobiologie und Immunologie der Universität Bonn, Sigmund-Freud-Straße 25, 53127 Bonn, Germany; strain IMMIB D-1321; sputum of a 92 year old woman with lung tuberculosis
<i>Tsukamurella strandjordii</i> corrig. Kattar <i>et al.</i> 2002^{VP}	
N 1275 ^T	DSM 44573 ^T ; A.F. Yassin, strain 32-92; blood from a 5-year-old girl with acute mycelogenous leukaemia
<i>Tsukamurella tyrosinosolvans</i> Yassin <i>et al.</i> 1997^{VP}	
N 1246 ^T	DSM 44234 ^T ; A.F. Yassin, strain IMMIB D-1397; clinical material (blood culture)
Genus <i>Williamsia</i> Kämpfer <i>et al.</i> 1999^{VP}	
<i>Williamsia muralis</i> Kämpfer <i>et al.</i> 1999^{VP}	
N 1261 ^{TSP}	M. Andersson, Department of Applied Chemistry and Microbiology, PO Box 56 (Biocentre), 00014 University of Helsinki, Finland; strain MA 140/96, water-damaged indoor building material of a children's day care center; Finland

All of the author citations are taken from Goodfellow *et al.* [3, 14]. Abbreviations: ATCC, American Type Culture Collection, Manassas, Virginia, USA; CCM, Czech Collection of Microorganisms, Masaryk University, Brno, Czech Republic; CIP, Collection de l'Institut Pasteur, Paris, France; CUB, Actinomycetes Culture Collection, School of Applied Biology, University of Bradford, Yorkshire, UK; DSM, Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Braunschweig, Germany; ICPB, International Collection of Phytopathogenic Bacteria, Davis, California, USA; IFO, Institute for Fermentation, Osaka, Japan; IMRU, Institute of Microbiology, Rutgers State University, New Brunswick, N.J., USA; IMV, Institute of Microbiology and Virology, Kiev, Ukraine; JCM, Japan Collection of Microorganisms, The Institute of Physical and Chemical Research, Hirosawa, Wako-shi, Japan; MTCC, Microbial Type Culture Collection, Chandigarh, India; NCFB, National Collection of Food Bacteria, NCIB, National Collection of Industrial Bacteria and NCIMB, National Collection of Industrial and Marine Bacteria, Aberdeen, Scotland, UK; NCPPB, National Collection of Plant Pathogenic Bacteria, Central Science Laboratory, York, UK; NCTC, National Collection of Type Cultures, Central Public Health Laboratory, London, UK; NRRL, ARS Culture Collection, Northern Regional Research Laboratory, U.S. Department of Agriculture, Peoria, Illinois, USA; VKM, All-Russian Collection of Microorganisms, Institute of Biochemistry and Physiology of Microorganisms, Russian Academy of Sciences, Pushchino, Russia.

^{AL}, Cited in the *Approved Lists of Bacterial Names* [62]; ^{PT}, putative type strain; ^T, type strain; ^{TSP}, type species; ^{VP}, validly published.