



## Major Release of 161 Whole-Genome Sequences from the International *Pseudomonas* Consortium Database

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**ABSTRACT** *Pseudomonas aeruginosa* is an environmental bacterium and opportunistic pathogen. Here, we present draft genome sequences for 161 isolates from diverse clinical and environmental sources. This set of genome sequences complements other major public data releases from the International *Pseudomonas* Consortium Database.

Over the past 3 years, the International *Pseudomonas aeruginosa* Consortium has reached its original goal of sequencing 1,000 *Pseudomonas aeruginosa* genomes for the study of genome evolution, antibiotic resistance, and virulence genes (1). This sequencing project relies on a large strain collection that was assembled with the aim of truly representing the worldwide *P. aeruginosa* population. Details of this collection are available through the International *Pseudomonas* Consortium Database (IPCD; <http://ipcd.ibis.ulaval.ca/>). It spans all continents, with a total of 1,723 isolates from cystic fibrosis patients, other types of human infections, animal infections, plants, soil, and water. The 1,030 genome sequences of the IPCD are now gradually becoming publicly available via a series of published studies (2–4; J. Jeukens, L. Freschi, I. Kukavica-Ibrulj, J.G. Emond-Rheault, C. Allard, J. Barbeau, A. Cantin, S.J. Charette, E. Déziel, F. Malouin, J. Milot, D. Nguyen, C. Popa, B. Boyle, R.C. Levesque, submitted for publication). Here, we present 161 new genome sequences representing isolates from various clinical and environmental sources that were not included in these studies.

Bacterial colonies were isolated on Difco *Pseudomonas* isolation agar (BD, Sparks, MD). Genomic DNA was extracted from overnight liquid cultures (37°C, LB medium) using the E-Z 96 tissue DNA kit (Omega Bio-tek, Norcross, GA). Genomic DNA (250 to 750 ng) was mechanically fragmented for 40 s using a Covaris M220 instrument (Covaris, Woburn MA) with default settings. Fragmented DNA was transferred to a PCR tube, and library synthesis was performed with the NEBNext Ultra II DNA library prep kit for Illumina (New England Biolabs, Ipswich, MA) according to the manufacturer's instructions. TruSeq HT adapters (Illumina, San Diego, CA) were used to barcode the libraries, which were each sequenced in 1/48 of an Illumina MiSeq 300-bp paired-end run at the Plateforme d'Analyses Génomiques of the Institut de Biologie Intégrative et des Systèmes (IBIS; Université Laval, Québec, Canada). Each data set was assembled *de novo* with the A5 pipeline version A5-miseq 20140521 (5). Genome assemblies were annotated with the NCBI Prokaryotic Genome Annotation Pipeline.

The resulting genome assemblies range from 15 to 99 scaffolds, with an average  $N_{50}$  value of 484,265 bp and a median coverage of 31× (Table 1). Combined with the IPCD's comprehensive strain collection, this set of 161 genomes and other data releases from the IPCD constitute a uniformly generated, high-quality data set that can be used for further genomic analysis, such as the identification of antimicrobial resistance and prognostic markers (6).

**Data availability.** Whole-genome shotgun projects have been deposited at DDBJ/EMBL/GenBank under accession numbers [RWZH00000000](#) to [RXFL00000000](#) as part of

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**TABLE 1** Whole-genome data sequencing for 161 *P. aeruginosa* isolates from the International *Pseudomonas* Consortium Database

Isolate identifier	BioSample no.	GenBank accession no.	SRA run no.	Country sample	Environmental No. of scaffolds	Size (Mb)	<i>N</i> <sub>50</sub> (bp)	GC content (%)	Median coverage (x)	IPCD URL
229	SAMIN10478413	RXF000000000	SRR8612906	Australia Yes	51	6.4897	357,215	66.3	31	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/229/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/229/criteria/solatedD/dbfunction2/Y/</a>
236	SAMIN10478414	RXF000000000	SRR8612905	Australia Yes	36	6.31904	665,346	66.5	33	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/236/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/236/criteria/solatedD/dbfunction2/Y/</a>
245	SAMIN10478415	RXF000000000	SRR8612908	Australia Yes	33	6.46403	475,712	66.4	29	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/245/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/245/criteria/solatedD/dbfunction2/Y/</a>
246	SAMIN10478416	RXFH000000000	SRR8612907	Australia Yes	35	6.30793	524,351	66.5	37	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/246/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/246/criteria/solatedD/dbfunction2/Y/</a>
247	SAMIN10478417	RXFG000000000	SRR8612902	Australia Yes	29	6.25049	548,266	66.6	30	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/247/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/247/criteria/solatedD/dbfunction2/Y/</a>
249	SAMIN10478418	RXFF000000000	SRR8612901	Australia Yes	28	6.39554	820,044	66.4	29	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/249/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/249/criteria/solatedD/dbfunction2/Y/</a>
252	SAMIN10478419	RXFE000000000	SRR8612904	Australia Yes	46	6.23503	403,875	66.4	30	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/252/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/252/criteria/solatedD/dbfunction2/Y/</a>
253	SAMIN10478420	RXFD000000000	SRR8612903	Australia Yes	44	6.50779	421,957	66.5	28	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/253/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/253/criteria/solatedD/dbfunction2/Y/</a>
270	SAMIN10478421	RXFC000000000	SRR8612900	Australia Yes	27	6.37643	714,696	66.5	25	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/270/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/270/criteria/solatedD/dbfunction2/Y/</a>
287	SAMIN10478422	RXFB000000000	SRR8612899	Australia Yes	42	6.56496	476,708	66.3	26	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/287/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/287/criteria/solatedD/dbfunction2/Y/</a>
317	SAMIN10478423	RXFA000000000	SRR8612849	Australia Yes	25	6.23387	772,847	66.6	31	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/317/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/317/criteria/solatedD/dbfunction2/Y/</a>
324	SAMIN10478424	RXEZ000000000	SRR8612848	Australia Yes	42	6.74979	341,256	66.1	27	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/324/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/324/criteria/solatedD/dbfunction2/Y/</a>
325	SAMIN10478425	RXEY000000000	SRR8612847	Australia Yes	46	6.82269	579,571	65.9	30	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/325/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/325/criteria/solatedD/dbfunction2/Y/</a>
331	SAMIN10478426	RXEX000000000	SRR8612846	Australia Yes	57	7.14726	278,589	65.8	32	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/331/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/331/criteria/solatedD/dbfunction2/Y/</a>
357	SAMIN10478427	RXEW000000000	SRR8612845	Australia Yes	47	6.44814	427,325	66.3	37	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/357/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/357/criteria/solatedD/dbfunction2/Y/</a>
367	SAMIN10478429	RXEU000000000	SRR8612844	Australia Yes	58	6.62655	408,679	66.1	32	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/367/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/367/criteria/solatedD/dbfunction2/Y/</a>
371	SAMIN10478430	RXEV000000000	SRR8612843	Australia Yes	37	6.98641	429,963	65.5	33	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/369/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/369/criteria/solatedD/dbfunction2/Y/</a>
377	SAMIN10478431	RXET000000000	SRR8612842	Australia Yes	27	6.46627	835,026	66.3	34	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/371/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/371/criteria/solatedD/dbfunction2/Y/</a>
380	SAMIN10478432	RXES000000000	SRR8612841	Australia Yes	28	6.3506	665,914	66.4	40	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/377/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/377/criteria/solatedD/dbfunction2/Y/</a>
381	SAMIN10478433	RXER000000000	SRR8612840	Australia Yes	48	7.12073	424,139	65.3	32	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/380/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/380/criteria/solatedD/dbfunction2/Y/</a>
382	SAMIN10478434	RXEQ000000000	SRR8612782	Australia Yes	42	6.35667	313,467	66.4	42	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/381/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/381/criteria/solatedD/dbfunction2/Y/</a>
392	SAMIN10478435	RXEP000000000	SRR8612783	Australia Yes	31	6.55857	788,788	66.3	33	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/382/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/382/criteria/solatedD/dbfunction2/Y/</a>
394	SAMIN10478436	RXEQ000000000	SRR8612780	Australia Yes	31	6.34732	527,001	66.5	45	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/392/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/392/criteria/solatedD/dbfunction2/Y/</a>
395	SAMIN10478437	RXEN000000000	SRR8612781	Australia Yes	33	6.36336	522,219	66.4	37	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/394/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/394/criteria/solatedD/dbfunction2/Y/</a>
396	SAMIN10478438	RXEM000000000	SRR8612778	Australia Yes	46	6.30084	396,687	66.5	40	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/395/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/395/criteria/solatedD/dbfunction2/Y/</a>
397	SAMIN10478439	RXEL000000000	SRR8612779	Australia Yes	31	6.26785	501,476	66.6	44	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/396/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/396/criteria/solatedD/dbfunction2/Y/</a>
411	SAMIN10478440	RXEI000000000	SRR8612776	Australia Yes	34	6.40942	574,088	66.5	37	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/397/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/397/criteria/solatedD/dbfunction2/Y/</a>
412	SAMIN10478441	RXEI000000000	SRR8612777	Australia Yes	26	6.45459	742,570	66.4	36	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/411/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/411/criteria/solatedD/dbfunction2/Y/</a>
413	SAMIN10478442	RXEI000000000	SRR8612784	Australia Yes	35	6.44969	472,767	66.3	60	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/412/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/412/criteria/solatedD/dbfunction2/Y/</a>
414	SAMIN10478444	RXEG000000000	SRR8612884	Australia Yes	17	6.32485	803,605	66.5	36	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/414/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/414/criteria/solatedD/dbfunction2/Y/</a>
415	SAMIN10478445	RXEI000000000	SRR8612883	Australia Yes	30	6.35064	489,232	66.5	31	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/415/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/415/criteria/solatedD/dbfunction2/Y/</a>
432	SAMIN10478446	RXEE000000000	SRR8612886	Australia Yes	18	6.31667	599,470	66.6	30	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/432/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/432/criteria/solatedD/dbfunction2/Y/</a>
443	SAMIN10478447	RXED000000000	SRR8612885	Australia Yes	62	6.65026	225,319	66.3	45	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/443/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/443/criteria/solatedD/dbfunction2/Y/</a>
444	SAMIN10478448	RXEC000000000	SRR8612880	Australia Yes	35	6.448943	514,739	66.3	51	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/444/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/444/criteria/solatedD/dbfunction2/Y/</a>
445	SAMIN10478449	RXEBO000000000	SRR8612879	Australia Yes	26	6.32336	1,034,629	66.5	58	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/445/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/445/criteria/solatedD/dbfunction2/Y/</a>
447	SAMIN10478450	RXEA000000000	SRR8612882	Australia Yes	33	6.3544	769,793	66.5	50	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/447/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/447/criteria/solatedD/dbfunction2/Y/</a>
448	SAMIN10478451	RXDZ000000000	SRR8612881	Australia Yes	52	7.09373	245,962	65.8	42	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/448/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/448/criteria/solatedD/dbfunction2/Y/</a>
449	SAMIN10478452	RXDY000000000	SRR8612890	Australia Yes	30	6.42484	594,857	66.4	60	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/449/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/449/criteria/solatedD/dbfunction2/Y/</a>
450	SAMIN10478453	RDXD000000000	SRR8612889	Australia Yes	28	6.27342	667,621	66.5	37	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail/id/450/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail/id/450/criteria/solatedD/dbfunction2/Y/</a>

(Continued on next page)

TABLE 1 (Continued)

Isolate identifier	BioSample no.	GenBank accession no.	SRA run no.	Country sample	Environmental No. of scaffolds	Size (Mb)	N <sub>50</sub> (bp)	GC content (%)	Median coverage (x)	IPCD URL
451	SAMN10478454	RXDW00000000	SRR8612817	Australia	Yes	61	6.41992	270,976	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/451/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/451/criteria/isolateID/dbfunction2/Y/</a>
479	SAMN10478455	RXDV00000000	SRR8612818	Australia	No	52	7.03642	324,049	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/479/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/479/criteria/isolateID/dbfunction2/Y/</a>
481	SAMN10478456	RXDU00000000	SRR8612819	Australia	No	49	6.97704	343,147	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/481/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/481/criteria/isolateID/dbfunction2/Y/</a>
482	SAMN10478457	RXDT00000000	SRR8612820	Australia	No	70	7.06873	291,285	65.9	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/482/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/482/criteria/isolateID/dbfunction2/Y/</a>
517	SAMN10478458	RXDS00000000	SRR8612813	Australia	No	41	6.15601	488,545	66.6	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/517/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/517/criteria/isolateID/dbfunction2/Y/</a>
532	SAMN10478459	RXDR00000000	SRR8612814	Australia	No	38	6.2302	485,479	66.6	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/532/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/532/criteria/isolateID/dbfunction2/Y/</a>
540	SAMN10478460	RXDQ00000000	SRR8612815	USA	No	34	6.45779	517,479	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/540/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/540/criteria/isolateID/dbfunction2/Y/</a>
541	SAMN10478461	RXDP00000000	SRR8612816	USA	No	43	6.4603	482,685	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/541/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/541/criteria/isolateID/dbfunction2/Y/</a>
542	SAMN10478462	RXDO00000000	SRR8612811	USA	No	35	6.45559	454,597	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/542/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/542/criteria/isolateID/dbfunction2/Y/</a>
545	SAMN10478463	RXDN00000000	SRR8612812	USA	No	30	6.31901	778,034	66.5	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/545/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/545/criteria/isolateID/dbfunction2/Y/</a>
546	SAMN10478464	RXDM00000000	SRR8612916	USA	No	36	6.32777	777,972	66.5	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/546/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/546/criteria/isolateID/dbfunction2/Y/</a>
548	SAMN10478465	RXDL00000000	SRR8612915	USA	No	88	6.70739	249,180	66.3	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/548/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/548/criteria/isolateID/dbfunction2/Y/</a>
553	SAMN10478466	RXDK00000000	SRR8612914	USA	No	32	6.76989	438,875	66.1	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/553/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/553/criteria/isolateID/dbfunction2/Y/</a>
554	SAMN10478467	RXDJ00000000	SRR8612913	USA	No	31	6.77032	443,905	66.1	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/554/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/554/criteria/isolateID/dbfunction2/Y/</a>
561	SAMN10478468	RXDJ00000000	SRR8612920	USA	No	19	6.44922	777,255	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/561/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/561/criteria/isolateID/dbfunction2/Y/</a>
562	SAMN10478469	RXDQ00000000	SRR8612919	USA	No	21	6.44997	777,256	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/562/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/562/criteria/isolateID/dbfunction2/Y/</a>
564	SAMN10478470	RXDG00000000	SRR8612918	USA	No	44	6.39778	342,464	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/564/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/564/criteria/isolateID/dbfunction2/Y/</a>
566	SAMN10478471	RXDF00000000	SRR8612917	USA	No	41	6.96278	502,782	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/566/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/566/criteria/isolateID/dbfunction2/Y/</a>
748	SAMN10478472	RXDE00000000	SRR8612922	Japan	Yes	55	6.96666	426,725	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/748/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/748/criteria/isolateID/dbfunction2/Y/</a>
750	SAMN10478473	RXDD00000000	SRR8612921	Japan	Yes	40	6.63624	380,742	66.2	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/750/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/750/criteria/isolateID/dbfunction2/Y/</a>
751	SAMN10478474	RXF00000000	SRR8612925	Japan	Yes	44	6.94121	367,696	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/751/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/751/criteria/isolateID/dbfunction2/Y/</a>
754	SAMN10478475	RXDC00000000	SRR8612926	Japan	Yes	42	6.71812	468,104	66.3	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/754/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/754/criteria/isolateID/dbfunction2/Y/</a>
755	SAMN10478476	RXDB00000000	SRR8612923	Japan	Yes	42	6.80593	554,454	65.9	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/755/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/755/criteria/isolateID/dbfunction2/Y/</a>
755	SAMN10478476	RXDB00000000	SRR8612924	Japan	Yes	67	6.8055	255,461	66.1	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/756/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/756/criteria/isolateID/dbfunction2/Y/</a>
758	SAMN10478477	RXDA00000000	SRR8612929	Japan	Yes	68	6.91414	208,892	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/758/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/758/criteria/isolateID/dbfunction2/Y/</a>
759	SAMN10478478	RXCZ00000000	SRR8612930	Japan	Yes	90	6.97551	203,554	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/759/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/759/criteria/isolateID/dbfunction2/Y/</a>
760	SAMN10478479	RXCW00000000	SRR8612931	Japan	Yes	81	6.81359	230,545	66.1	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/760/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/760/criteria/isolateID/dbfunction2/Y/</a>
761	SAMN10478480	RXCW00000000	SRR8612927	Japan	Yes	55	7.13133	257,983	65.7	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/761/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/761/criteria/isolateID/dbfunction2/Y/</a>
762	SAMN10478481	RXCW00000000	SRR8612928	Belgium	Yes	32	6.76677	515,774	66.1	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/762/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/762/criteria/isolateID/dbfunction2/Y/</a>
824	SAMN10478482	RXCV00000000	SRR8612988	Belgium	Yes	23	6.50556	515,348	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/824/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/824/criteria/isolateID/dbfunction2/Y/</a>
825	SAMN10478483	RXCU00000000	SRR8612911	Belgium	Yes	44	6.7263	401,909	66.2	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/826/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/826/criteria/isolateID/dbfunction2/Y/</a>
826	SAMN10478484	RXCT00000000	SRR8612798	Belgium	Yes	52	6.87521	348,379	65.9	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/828/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/828/criteria/isolateID/dbfunction2/Y/</a>
828	SAMN10478485	RXCS00000000	SRR8612797	Belgium	Yes	41	6.67116	366,373	66.3	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/829/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/829/criteria/isolateID/dbfunction2/Y/</a>
829	SAMN10478486	RXCR00000000	SRR8612801	Belgium	Yes	27	6.78081	783,488	66.2	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/831/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/831/criteria/isolateID/dbfunction2/Y/</a>
831	SAMN10478487	RXQC00000000	SRR8612823	Belgium	Yes	52	6.88085	480,584	66	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/833/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/833/criteria/isolateID/dbfunction2/Y/</a>
1105	SAMN10478488	RXCP00000000	SRR8612810	Thailand	No	47	6.2794	385,450	66.5	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/835/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/835/criteria/isolateID/dbfunction2/Y/</a>
1106	SAMN10478489	RXCN00000000	SRR8612851	Thailand	No	20	6.25092	765,594	66.5	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/837/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/837/criteria/isolateID/dbfunction2/Y/</a>
1108	SAMN10478490	RXCN00000000	SRR8612796	Thailand	No	36	6.67589	608,561	66.2	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/839/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/839/criteria/isolateID/dbfunction2/Y/</a>
1110	SAMN10478491	RXCM00000000	SRR8612865	Thailand	No	32	6.33641	439,305	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/841/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/841/criteria/isolateID/dbfunction2/Y/</a>
1111	SAMN10478492	RXCL00000000	SRR8612827	Thailand	No	46	6.336923	287,370	66.4	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/843/criteria/isolateID/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/843/criteria/isolateID/dbfunction2/Y/</a>

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TABLE 1 (Continued)

Isolate identifier	BioSample no.	GenBank accession no.	SRA run no.	Country	Environmental sample	No. of scaffolds	Size (Mb)	N <sub>50</sub> (bp)	GC content (%)	Median coverage (x)	IPCD URL
1126	SAMN10478494	RXC000000000	SRR8612822	Thailand	No	35	6.39825	476,159	66.5	36	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1126/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1126/criteria/solatedD/dbfunction2/Y/</a>
1130	SAMN10478495	RXC100000000	SRR8612824	Thailand	No	39	6.99363	355,083	66	31	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1130/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1130/criteria/solatedD/dbfunction2/Y/</a>
1132	SAMN10478496	RXCH000000000	SRR8612809	Thailand	No	27	6.58261	478,039	66.3	29	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1132/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1132/criteria/solatedD/dbfunction2/Y/</a>
1134	SAMN10478497	RXCG000000000	SRR8612830	Thailand	No	36	6.40832	472,459	66.3	30	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1134/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1134/criteria/solatedD/dbfunction2/Y/</a>
1135	SAMN10478498	RXCF000000000	SRR8612825	Thailand	No	34	6.93776	583,246	65.9	27	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1135/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1135/criteria/solatedD/dbfunction2/Y/</a>
1136	SAMN10478499	RXCE000000000	SRR8612839	Thailand	No	40	6.47484	354,473	66.3	33	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1136/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1136/criteria/solatedD/dbfunction2/Y/</a>
1146	SAMN10478500	RXC000000000	SRR8612852	Thailand	No	45	6.73357	477,284	66	33	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1146/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1146/criteria/solatedD/dbfunction2/Y/</a>
1150	SAMN10478501	RXCC000000000	SRR8612864	Thailand	No	38	6.27398	564,768	66.6	28	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1150/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1150/criteria/solatedD/dbfunction2/Y/</a>
1175	SAMN10478502	RXCB000000000	SRR8612771	USA	Yes	35	6.48184	494,753	66.3	31	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1175/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1175/criteria/solatedD/dbfunction2/Y/</a>
1178	SAMN10478503	RXCA000000000	SRR8612772	USA	Yes	15	6.45214	826,302	66.4	32	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1178/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1178/criteria/solatedD/dbfunction2/Y/</a>
1179	SAMN10478504	RXBZ000000000	SRR8612891	USA	Yes	19	6.45026	664,784	66.4	38	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1179/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1179/criteria/solatedD/dbfunction2/Y/</a>
1218	SAMN10478505	RXB0Y000000000	SRR8612887	Japan	Yes	33	6.904	563,468	65.9	34	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1218/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1218/criteria/solatedD/dbfunction2/Y/</a>
1220	SAMN10478506	RXB0X000000000	SRR8612912	Japan	Yes	36	6.48836	683,844	66.4	34	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1220/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1220/criteria/solatedD/dbfunction2/Y/</a>
1222	SAMN10478507	RXBW000000000	SRR8612876	Japan	Yes	53	6.84601	368,499	65.9	30	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1222/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1222/criteria/solatedD/dbfunction2/Y/</a>
1224	SAMN10478508	RXBV000000000	SRR8612821	Japan	Yes	50	6.96144	627,011	65.9	31	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1224/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1224/criteria/solatedD/dbfunction2/Y/</a>
1226	SAMN10478509	RXB0U000000000	SRR8612850	Japan	Yes	26	6.77444	757,878	66.2	29	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1226/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1226/criteria/solatedD/dbfunction2/Y/</a>
1228	SAMN10478510	RXBTO000000000	SRR8612867	Japan	Yes	53	6.50199	339,692	66.2	30	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1228/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1228/criteria/solatedD/dbfunction2/Y/</a>
1230	SAMN10478511	RXB500000000	SRR8612866	Japan	Yes	39	6.47734	314,052	66.3	31	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1230/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1230/criteria/solatedD/dbfunction2/Y/</a>
1232	SAMN10478512	RXB0R000000000	SRR8612775	Japan	Yes	33	6.51199	426,899	66.4	34	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1232/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1232/criteria/solatedD/dbfunction2/Y/</a>
1234	SAMN10478513	RXBQ000000000	SRR8612863	Japan	Yes	55	6.51997	257,501	66.3	42	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1234/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1234/criteria/solatedD/dbfunction2/Y/</a>
1236	SAMN10478514	RXB0P000000000	SRR8612874	Japan	Yes	74	6.94925	340,243	66.2	35	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1236/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1236/criteria/solatedD/dbfunction2/Y/</a>
1240	SAMN10478515	RXB0Y000000000	SRR8612875	Japan	Yes	76	6.93936	228,401	66	41	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1240/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1240/criteria/solatedD/dbfunction2/Y/</a>
1356	SAMN10478516	RXBN000000000	SRR8612872	Germany	No	66	6.35478	233,990	66.4	18	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1356/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1356/criteria/solatedD/dbfunction2/Y/</a>
1360	SAMN10478518	RXBM000000000	SRR8612873	Israel	No	23	6.27396	435,860	66.5	32	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1360/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1360/criteria/solatedD/dbfunction2/Y/</a>
1361	SAMN10478519	RXBL000000000	SRR8612870	Germany	No	54	6.90503	383,627	66	23	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1362/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1362/criteria/solatedD/dbfunction2/Y/</a>
1362	SAMN10478520	RXBB000000000	SRR8612871	Germany	No	28	6.29155	457,259	66.6	33	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1363/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1363/criteria/solatedD/dbfunction2/Y/</a>
1363	SAMN10478521	RXB0J000000000	SRR8612868	Germany	No	46	6.74808	355,186	66	46	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1364/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1364/criteria/solatedD/dbfunction2/Y/</a>
1364	SAMN10478522	RXBH000000000	SRR8612877	Germany	No	23	6.37071	771,128	66.5	35	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1365/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1365/criteria/solatedD/dbfunction2/Y/</a>
1365	SAMN10478523	RXBH000000000	SRR8612877	Germany	No	62	6.74733	329,843	66	23	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1366/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1366/criteria/solatedD/dbfunction2/Y/</a>
1366	SAMN10478524	RXBG000000000	SRR8612878	Germany	No	33	6.47395	477,720	66.4	30	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1367/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1367/criteria/solatedD/dbfunction2/Y/</a>
1367	SAMN10478525	RXB0F000000000	SRR8612897	Germany	No	64	6.36843	394,253	66.3	23	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1368/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1368/criteria/solatedD/dbfunction2/Y/</a>
1369	SAMN10478526	RXB0E000000000	SRR8612896	Germany	No	42	6.36112	439,762	66.4	42	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1369/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1369/criteria/solatedD/dbfunction2/Y/</a>
1370	SAMN10478527	RXBD000000000	SRR8612770	Germany	No	99	7.22394	209,392	65.6	31	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1370/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1370/criteria/solatedD/dbfunction2/Y/</a>
1374	SAMN10478528	RXBC000000000	SRR8612898	Germany	No	32	6.90149	501,065	66	31	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1374/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1374/criteria/solatedD/dbfunction2/Y/</a>
1375	SAMN10478529	RXBB000000000	SRR8612893	Germany	Yes	44	6.79073	468,591	66.1	21	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1375/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1375/criteria/solatedD/dbfunction2/Y/</a>
1376	SAMN10478530	RXBA000000000	SRR8612892	Germany	No	25	6.55867	546,946	66.2	31	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1376/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1376/criteria/solatedD/dbfunction2/Y/</a>
1377	SAMN10478531	RXA0Z000000000	SRR8612895	Germany	No	27	6.57869	777,188	66.4	29	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1377/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1377/criteria/solatedD/dbfunction2/Y/</a>
1380	SAMN10478532	RXAY000000000	SRR8612894	France	No	23	6.23205	869,892	66.6	40	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1380/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1380/criteria/solatedD/dbfunction2/Y/</a>
1381	SAMN10478533	RAXX000000000	SRR8612774	Austria	No	32	6.37824	471,841	66.4	25	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1381/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1381/criteria/solatedD/dbfunction2/Y/</a>
1383	SAMN10478534	RXAW000000000	SRR8612773	Italy	No	20	6.38192	773,952	66.5	30	<a href="https://ipcdlibis.ulaval.ca/index/display-detail/id/1383/criteria/solatedD/dbfunction2/Y/">https://ipcdlibis.ulaval.ca/index/display-detail/id/1383/criteria/solatedD/dbfunction2/Y/</a>

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TABLE 1 (Continued)

Isolate identifier	BioSample no.	GenBank accession no.	SRA run no.	Country sample	Environmental No. of scaffolds	Size (Mb)	N <sub>so</sub> (bp)	GC content (%)	Median coverage (x)	IPCD URL
1384	SAMN10478335	RXAV000000000	SRR8612835	Sweden	No	25	6,17016	775,189	66.5	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1384/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1384/criteria/solatedD/dbfunction2/Y/</a>
1385	SAMN10478336	RXAU000000000	SRR8612836	Germany	Yes	61	6,88093	200,292	66.1	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1385/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1385/criteria/solatedD/dbfunction2/Y/</a>
1387	SAMN10478337	RXAT000000000	SRR8612837	Germany	Yes	48	7,2699	332,653	65.7	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1387/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1387/criteria/solatedD/dbfunction2/Y/</a>
1389	SAMN10478338	RXAS000000000	SRR8612838	Germany	No	39	6,55809	511,900	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1389/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1389/criteria/solatedD/dbfunction2/Y/</a>
1390	SAMN10478339	RXAR000000000	SRR8612831	Germany	No	58	6,64478	262,999	66.1	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1390/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1390/criteria/solatedD/dbfunction2/Y/</a>
1396	SAMN10478340	RXAQ000000000	SRR8612832	Germany	No	48	6,40883	320,934	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1396/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1396/criteria/solatedD/dbfunction2/Y/</a>
1399	SAMN10478341	RXAP000000000	SRR8612833	Germany	No	48	6,6459	264,812	66.1	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1399/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1399/criteria/solatedD/dbfunction2/Y/</a>
1401	SAMN10478342	RXAQ000000000	SRR8612834	Germany	No	36	6,44104	435,978	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1401/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1401/criteria/solatedD/dbfunction2/Y/</a>
1405	SAMN10478343	RXAN000000000	SRR8612828	Germany	No	27	6,60307	781,951	66.1	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1405/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1405/criteria/solatedD/dbfunction2/Y/</a>
1407	SAMN10478344	RXAM000000000	SRR8612829	Germany	No	34	6,5476	567,498	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1407/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1407/criteria/solatedD/dbfunction2/Y/</a>
1408	SAMN10478345	RXAL000000000	SRR8612858	Germany	No	37	6,64896	375,085	66.2	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1408/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1408/criteria/solatedD/dbfunction2/Y/</a>
1409	SAMN10478346	RXAK000000000	SRR8612857	Germany	No	91	6,57641	495,626	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1409/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1409/criteria/solatedD/dbfunction2/Y/</a>
1412	SAMN10478347	RXAJ000000000	SRR8612856	Germany	No	25	6,47284	846,003	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1412/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1412/criteria/solatedD/dbfunction2/Y/</a>
1413	SAMN10478348	RXAJ000000000	SRR8612855	Germany	No	28	6,35215	538,741	66.5	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1413/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1413/criteria/solatedD/dbfunction2/Y/</a>
1414	SAMN10478349	RXAH000000000	SRR8612862	Germany	No	79	7,01035	258,365	65.9	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1414/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1414/criteria/solatedD/dbfunction2/Y/</a>
1415	SAMN10478350	RXAG000000000	SRR8612861	Germany	No	49	6,33354	395,233	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1415/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1415/criteria/solatedD/dbfunction2/Y/</a>
1417	SAMN10478351	RXAFO000000000	SRR8612860	Germany	No	23	6,37337	650,729	66.5	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1417/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1417/criteria/solatedD/dbfunction2/Y/</a>
1419	SAMN10478352	RXAE000000000	SRR8612859	Germany	No	47	6,75195	451,143	66.1	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1419/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1419/criteria/solatedD/dbfunction2/Y/</a>
1421	SAMN10478353	RXD000000000	SRR8612854	Germany	No	25	6,45953	517,589	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1421/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1421/criteria/solatedD/dbfunction2/Y/</a>
1422	SAMN10478354	RXAC000000000	SRR8612853	Germany	No	40	6,89816	461,251	66	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1422/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1422/criteria/solatedD/dbfunction2/Y/</a>
1423	SAMN10478355	RXAB000000000	SRR8612790	Germany	No	25	6,42423	776,124	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1423/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1423/criteria/solatedD/dbfunction2/Y/</a>
1427	SAMN10478356	RXAA000000000	SRR8612791	Germany	No	42	6,36034	282,058	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1427/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1427/criteria/solatedD/dbfunction2/Y/</a>
1428	SAMN10478357	RWZZ000000000	SRR8612788	Germany	No	49	6,3626	386,090	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1428/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1428/criteria/solatedD/dbfunction2/Y/</a>
1429	SAMN10478358	RWZY000000000	SRR8612789	Germany	No	20	6,43687	908,299	66.5	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1429/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1429/criteria/solatedD/dbfunction2/Y/</a>
1432	SAMN10478359	RWZK000000000	SRR8612794	Germany	No	58	6,70811	261,267	66.1	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1432/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1432/criteria/solatedD/dbfunction2/Y/</a>
1433	SAMN10478360	RWZW000000000	SRR8612795	Germany	No	42	6,37473	408,603	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1433/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1433/criteria/solatedD/dbfunction2/Y/</a>
1434	SAMN10478361	RWZM000000000	SRR8612792	Germany	No	33	6,35399	490,002	66.5	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1434/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1434/criteria/solatedD/dbfunction2/Y/</a>
1436	SAMN10478362	RWZU000000000	SRR8612793	Sweden	No	51	6,58658	451,797	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1436/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1436/criteria/solatedD/dbfunction2/Y/</a>
1437	SAMN10478363	RWZT000000000	SRR8612786	Germany	No	33	6,3989	466,494	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1437/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1437/criteria/solatedD/dbfunction2/Y/</a>
1438	SAMN10478364	RWZS000000000	SRR8612787	Germany	No	35	6,47752	448,595	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1438/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1438/criteria/solatedD/dbfunction2/Y/</a>
1439	SAMN10478365	RWZQ000000000	SRR8612803	Germany	No	41	6,3411	395,693	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1439/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1439/criteria/solatedD/dbfunction2/Y/</a>
1615	SAMN10478366	RWZL000000000	SRR8612802	USA	No	57	6,7142	437,944	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1615/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1615/criteria/solatedD/dbfunction2/Y/</a>
1616	SAMN10478367	RWZP000000000	SRR8612805	USA	No	58	6,75495	227,745	66	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1616/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1616/criteria/solatedD/dbfunction2/Y/</a>
1617	SAMN10478368	RWZQ000000000	SRR8612804	USA	No	55	6,29945	286,961	66.5	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1617/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1617/criteria/solatedD/dbfunction2/Y/</a>
1618	SAMN10478369	RWZM000000000	SRR8612807	USA	No	31	6,26749	776,900	66.5	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1618/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1618/criteria/solatedD/dbfunction2/Y/</a>
1619	SAMN10478370	RWZL000000000	SRR8612806	USA	No	45	6,43522	421,454	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1619/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1619/criteria/solatedD/dbfunction2/Y/</a>
1620	SAMN10478371	RWZL000000000	SRR8612809	USA	No	58	6,46408	257,773	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1620/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1620/criteria/solatedD/dbfunction2/Y/</a>
1621	SAMN10478372	RWZK000000000	SRR8612808	USA	No	56	6,39597	392,325	66.3	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1621/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1621/criteria/solatedD/dbfunction2/Y/</a>
1622	SAMN10478373	RWZI000000000	SRR8612800	USA	No	45	6,28725	348,099	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1622/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1622/criteria/solatedD/dbfunction2/Y/</a>
1623	SAMN10478374	RWZI000000000	SRR8612799	USA	No	64	6,76409	255,383	66.1	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1623/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1623/criteria/solatedD/dbfunction2/Y/</a>
1624	SAMN10478375	RWZH000000000	SRR8612910	USA	No	38	6,38636	400,728	66.4	<a href="https://ipcd.ibis.ulaval.ca/index/display-detail?id/1624/criteria/solatedD/dbfunction2/Y/">https://ipcd.ibis.ulaval.ca/index/display-detail?id/1624/criteria/solatedD/dbfunction2/Y/</a>

BioProject PRJNA325248. Details of the corresponding bacterial strain collection are available at <https://ipcd.ibis.ulaval.ca/>.

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## REFERENCES

1. Freschi L, Jeukens J, Kukavica-Ibrulj I, Boyle B, Dupont M-J, Laroche J, Larose S, Maaroufi H, Fothergill JL, Moore M, Winsor GL, Aaron SD, Barbeau J, Bell SC, Burns JL, Camara M, Cantin A, Charette SJ, Dewar K, Déziel E, Grimwood K, Hancock REW, Harrison JJ, Heeb S, Jelsbak L, Jia B, Kenna DT, Kidd TJ, Klockgether J, Lam JS, Lamont IL, Lewenza S, Loman N, Malouin F, McArthur AG, McKeown J, Milot J, Naghra H, Nguyen D, Pereira SK, Perron GG, Pirnay J-P, Rainey PB, Rousseau S, Santos PM, Stephenson A, Taylor V, Turton JF, Waglechner N, Williams P, Thrane SW, Wright GD, Brinkman FSL, Tucker NP, Tümmeler B, Winstanley C, Levesque RC. 2015. Clinical utilization of genomics data produced by the International *Pseudomonas aeruginosa* Consortium. *Front Microbiol* 6:1036. <https://doi.org/10.3389/fmicb.2015.01036>.
2. Freschi L, Bertelli C, Jeukens J, Moore MP, Kukavica-Ibrulj I, Emond-Rheault J-G, Hamel J, Fothergill JL, Tucker NP, McClean S, Klockgether J, de Soza A, Brinkman FSL, Levesque RC, Winstanley C. 2018. Genomic characterisation of an international *Pseudomonas aeruginosa* reference panel indicates that the two major groups draw upon distinct mobile gene pools. *FEMS Microbiol Lett* 365:fny120. <https://doi.org/10.1093/femsle/fny120>.
3. Freschi L, Vincent AT, Jeukens J, Emond-Rheault J-G, Kukavica-Ibrulj I, Dupont M-J, Charette SJ, Boyle B, Levesque RC. 2019. The *Pseudomonas aeruginosa* pan-genome provides new insights on its population structure, horizontal gene transfer and pathogenicity. *Genome Biol Evol* 11: 109–120. <https://doi.org/10.1093/gbe/evy259>.
4. Jeukens J, Kukavica-Ibrulj I, Emond-Rheault JG, Freschi L, Levesque RC. 2017. Comparative genomics of a drug-resistant *Pseudomonas aeruginosa* panel and the challenges of antimicrobial resistance prediction from genomes. *FEMS Microbiol Lett* 364:fnx161. <https://doi.org/10.1093/femsle/fnx161>.
5. Tritt A, Eisen JA, Facciotti MT, Darling AE. 2012. An integrated pipeline for *de novo* assembly of microbial genomes. *PLoS One* 7:e42304. <https://doi.org/10.1371/journal.pone.0042304>.
6. Jeukens J, Freschi L, Kukavica-Ibrulj I, Emond-Rheault J-G, Tucker NP, Levesque RC. 2019. Genomics of antibiotic-resistance prediction in *Pseudomonas aeruginosa*. *Ann N Y Acad Sci* 1435:5–17. <https://doi.org/10.1111/nyas.13358>.