

Supplementary Table S1. Top 100 laboratories that sequenced SARS-CoV-2 genomes

Rank	Laboratory	Continent	Country	Region	Number of laboratories of the same country in the top 100	Number of genomes
1	Lighthouse Lab in Alderley Park	Europe	United Kingdom	England	21	32 839
2	Lighthouse Lab in Glasgow	Europe	United Kingdom	England	21	22 378
3	Lighthouse Lab in Milton Keynes	Europe	United Kingdom	England	21	21 880
4	Wales Specialist Virology Centre Sequencing lab: Pathogen Genomics Unit	Europe	United Kingdom	Wales	5	16 321
5	Lighthouse Lab in Cambridge	Europe	United Kingdom	England	21	16 059
6	Pathogen Genomics Center, National Institute of Infectious Diseases	Asia	Japan		3	12 748
7	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Copenhagen, Denmark	Europe	Denmark	Hovedstaden	11	10 445
8	Microbiological Diagnostic Unit - Public Health Laboratory (MDU-PHL)	Oceania	Australia	Victoria	2	10 036
9	Department of Pathology, University of Cambridge	Europe	United Kingdom	England	21	8 505
10	Houston Methodist Hospital	North America	USA	Texas, Houston	24	7 850
11	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Europe	United Kingdom	England	21	6 014
12	Oxford Viromics, NDM, University of Oxford; Oxford University Hospitals; Basingstoke and North Hampshire Hospital	Europe	United Kingdom	England	21	5 425
13	Houston Methodist Hospital	North America	USA	Texas, Greater Houston Area	24	5 085
14	Liverpool Clinical Laboratories	Europe	United Kingdom	England	21	4 687
15	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Copenhagen, Denmark	Europe	Denmark	Midtjylland	11	4 452
16	Quadram Institute Bioscience	Europe	United Kingdom	England	21	4 430
17	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Copenhagen, Denmark	Europe	Denmark	Syddanmark	11	4 160
18	Virology Department, Sheffield Teaching Hospitals NHS Foundation Trust/Department of Infection, Immunity and Cardiovascular Disease, The Medical School, University of Sheffield	Europe	United Kingdom	England	21	4 110
19	West of Scotland Specialist Virology Centre, NHSGGC / MRC-University of Glasgow Centre for Virus Research	Europe	United Kingdom	Scotland	5	4 005
20	Lighthouse Lab in Glasgow	Europe	United Kingdom	Scotland	5	3 875
21	Utah Public Health Laboratory	North America	USA	Utah	24	3 751
22	Victorian Infectious Diseases Reference Laboratory (VIDRL)	Oceania	Australia	Victoria	2	3 698
23	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Denmark	Europe	Denmark	Hovedstaden	11	3 682
24	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Copenhagen, Denmark	Europe	Denmark	Sjaelland	11	3 448
25	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Europe	United Kingdom	England	21	3 365
26	PHE South West Regional Laboratory, National Infection Service	Europe	United Kingdom	England	21	3 306
27	Michigan Department of Health and Human Services, Bureau of Laboratories	North America	USA	Michigan	24	3 104
28	deCODE genetics	Europe	Iceland	Reykjavik	2	2 915
29	Wales Specialist Virology Centre	Europe	United Kingdom	Wales	5	2 844
30	Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of Biological Sciences, University of Edinburgh / Institute of Genetics and Molecular Medicine, University of Edinburgh	Europe	United Kingdom	Scotland	5	2 736
31	Queens Medical Centre, Clinical Microbiology Department / DeepSeq Nottingham	Europe	United Kingdom	England	21	2 681
32	Florida Bureau of Public Health Laboratories	North America	USA	Florida	24	2 655
33	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Copenhagen, Denmark	Europe	Denmark	Nordjylland	11	2 630
34	UW Virology Lab	North America	USA	Washington	24	2 600
35	Northumbria University / South Tees Hospitals NHS Foundation Trust / North Cumbria Integrated Care NHS Foundation Trust / North Tees and Hartlepool NHS Foundation Trust / Newcastle Hospitals NHS Foundation Trust	Europe	United Kingdom	England	21	2 518
36	Centre for Enzyme Innovation, University of Portsmouth / Translational Research Laboratory, Portsmouth Hospitals NHS Trust	Europe	United Kingdom	England	21	2 466
37	Laboratoire national de santé, Microbiology, Virology	Europe	Luxembourg	Luxembourg	1	2 054
38	Washington State Department of Health	North America	USA	Washington, Yakima County	24	1 950
39	Lighthouse Lab in Alderley Park	Europe	United Kingdom	Wales	5	1 916
40	University of Wisconsin-Madison AIDS Vaccine Research Laboratories	North America	USA	Wisconsin, Dane County	24	1 861
41	Respiratory Virus Unit, National Infection Service, Public Health England	Europe	United Kingdom	England	21	1 855

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42	University of Michigan Clinical Microbiology Laboratory	North America	USA	Michigan	24	1 720
43	Dutch COVID-19 response team	Europe	Netherlands	South Holland	6	1 700
44	Alberta Precision Labs (APL)	North America	Canada	Alberta	5	1 674
45	University of Exeter	Europe	United Kingdom	England	21	1 651
46	San Diego County Public Health Laboratory	North America	USA	California, San Diego	24	1 610
47	Regional Virus Laboratory, Belfast Health and Social Care Trust	Europe	United Kingdom	Northern Ireland	1	1 594
48	IHU Mediterranee Infection	Europe	France	Provence-Alpes-Côte d'Azur, Marseille	1	1 585
49	Laboratoire de santé publique du Québec	North America	Canada	Quebec	5	1 540
50	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Denmark	Europe	Denmark	Syddanmark	11	1 393
51	Department of Clinical Microbiology	Europe	Belgium	Liège	1	1 353
52	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Europe	United Kingdom	Scotland	5	1 350
53	University of Birmingham	Europe	United Kingdom	England	21	1 349
54	Virginia DCLS	North America	USA	Virginia	24	1 338
55	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Denmark	Europe	Denmark	Midtjylland	11	1 307
56	Instituto Nacional de Saude (INSA)	Europe	Portugal	Portugal	1	1 287
57	Originating lab: Wales Specialist Virology Centre Sequencing lab: Pathogen Genomics Unit	Europe	United Kingdom	Wales	5	1 268
58	The National University Hospital of Iceland	Europe	Iceland	Reykjavik	2	1 260
59	National Public Health Laboratory, National Centre for Infectious Diseases	Asia	Singapore	Singapore, Singapore	1	1 136
60	Bioinformatics and Biostatistics Lab, Advanced Sequencing Facility	Europe	United Kingdom	England	21	1 126
61	Department of Virology and Immunology, University of Helsinki and Helsinki University Hospital, Huslab Finland	Europe	Finland	Uusimaa	1	1 114
62	AZ SPHL, Arizona Department of Health Services	North America	USA	Arizona	24	1 109
63	Quest Diagnostics	North America	USA	California	24	1 101
64	Group 42 (G42) Healthcare, Abu Dhabi, United Arab Emirates; Department of Health, The United Arab Emirates	Asia	United Arab Emirates	Abu Dhabi	1	1 067
65	Dutch COVID-19 response team	Europe	Netherlands	North Brabant	6	1 061
66	Santa Clara County Public Health Laboratory	North America	USA	California, Santa Clara County	24	1 032
67	Viollier AG	Europe	Switzerland	Bern	3	980
68	Minnesota Department of Health, Public Health Laboratory	North America	USA	Minnesota	24	979
69	NU-OMICS DNA Sequencing research facility, Northumbria University	Europe	United Kingdom	England	21	953
70	Public Health Ontario Laboratory	North America	Canada	Ontario	5	944
71	University Medical Center Hamburg Eppendorf	Europe	Germany	Hamburg	1	942
72	Viollier AG	Europe	Switzerland	Zürich	3	921
73	BCCDC Public Health Laboratory	North America	Canada	British Columbia	5	920
74	Massachusetts General Hospital	North America	USA	Massachusetts	24	919
75	Massachusetts State Public Health Laboratory	North America	USA	Massachusetts	24	916
76	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Denmark	Europe	Denmark	Sjaelland	11	912
77	Wyoming Public Health Laboratory	North America	USA	Wyoming	24	899
78	Dutch COVID-19 response team	Europe	Netherlands	Utrecht	6	895
79	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Denmark	Europe	Denmark	Nordjylland	11	867
80	Ginkgo Bioworks Clinical Laboratory	North America	USA	Utah	24	845
81	Hospital General Universitario Gregorio Marañón	Europe	Spain	Madrid, Madrid	1	843
82	New Mexico Department of Health Scientific Laboratory	North America	USA	New Mexico	24	839
83	Toronto Invasive Bacterial Diseases Network	North America	Canada	Ontario, Toronto	5	829
84	Dutch COVID-19 response team	Europe	Netherlands	Netherlands	6	824
85	TGen North	North America	USA	Arizona	24	799
86	Lighthouse Lab in Milton Keynes	Europe	United Kingdom	Wales	5	785

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87	Division of Emerging Infectious Diseases, Bureau of Infectious Diseases Diagnosis Control, Korea Disease Control and Prevention Agency	Asia	South Korea	South Korea	2	775
88	Department of Infectious Diseases, Kobe Institute of Health	Asia	Japan	Japan	3	763
89	Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of Biological Sciences, University of Edinburgh	Europe	United Kingdom	Scotland	5	759
90	LSUHS Emerging Viral Threat Laboratory	North America	USA	Louisiana, Caddo Parish	24	755
91	Dutch COVID-19 response team	Europe	Netherlands	Gelderland	6	742
92	University College London Hospital	Europe	United Kingdom	England	21	740
93	Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Korea Centers for Diseases Control and Prevention	Asia	South Korea	South Korea	2	726
94	Dutch COVID-19 response team	Europe	Netherlands	North Holland	6	715
95	Viollier AG	Europe	Switzerland	Basel-Land	3	700
96	Fukuoka Institute of Health and Environmental Sciences	Asia	Japan	Japan	3	694
97	Sonora Quest Laboratories, Laboratory Sciences of Arizona	North America	USA	Arizona	24	686
98	Department of Virus and Microbiological Special Diagnostics, Statens Serum Institut, Copenhagen, Denmark	Europe	Denmark	Denmark	11	642
99	OHSU Lab Services Molecular Microbiology Lab	North America	USA	Oregon, Washington County OR	24	640
100	Istituto Zooprofilattico Sperimentale del Mezzogiorno	Europe	Italy	Campania	1	625