

APPENDIX 1

PATENTS

PATENT APPLICATIONS

Application number	Country	Application date	Applicant	Status
PCT/JP2022/6495	WO	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Deadline for the national entry for the most member states: 2023/10/14
202280000918.9	China	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
202310437344.8	China	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
202311797713.0	China	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
202410458057.X	China	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
17/790358	US	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Notice of Allowance
19/442200	US	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
24168486.9	EP	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
PCT/JP2022/6496	WO	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Deadline for the national entry for the most member states: 2023/10/14
202247063930	India	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
2301000600	Thailand	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
NC2022/0016323	Colombia	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending

PCT1148/2023	Egypt	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
800919	New Zealand	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
P6002599/2023	United Arab Emirates	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
20230298	Bahrain	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
2023/003721	Kuwait	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
OM/P/2023/00506	Oman	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
QA/202310/000853	Qatar	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
523451055	Saudi Arabia	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
a202303782	Ukraine	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
2023-7002784	Korea	17/02/2022	Shionogi & Co Ltd and Hokkaido University	Pending
PCT/JP2022/35803	WO	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Deadline for the national entry for the most member states: 28/03/2024
111136544	Taiwan	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
202280007447.4	China	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
202510188695.9	China	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending

2022353486	Australia	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
BR112024005918-9	Brazil	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
3233206	Canada	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
22876159.9	EP	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
62025102702.0	Hong Kong	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
2024-7013026	Korea	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
MX/a/2024/003600	Mexico	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
2024111519	Russia	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
11202401970T	Singapore	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
18/696097	US	27/09/2022	Shionogi & Co Ltd and Hokkaido University	Pending
PCT/JP2022/ 43092	WO	22/11/2022	Shionogi & Co Ltd	Deadline for the national entry for the most member states: 24/05/2024
202211151791.9	China	09/21/2022	Shionogi & Co Ltd	Pending
202280007992.3	China	11/22/2022	Shionogi & Co Ltd	Abandoned
22861484.8	EP	11/22/2022	Shionogi & Co Ltd	Pending
2023-7025438	Korea	11/22/2022	Shionogi & Co Ltd	Pending
18/277445	US	11/22/2022	Shionogi & Co Ltd	Pending
2022333823	Australia	11/22/2022	Shionogi & Co Ltd	Pending
11202402544W	Singapore	11/22/2022	Shionogi & Co Ltd	Pending

PCT/JP2023/001243	WO	18/01/2023	Shionogi & Co Ltd	Deadline for the national entry for the most member states: 19/07/2024
112102301	Taiwan	18/01/2023	Shionogi & Co Ltd	Notice of Allowance
202380009597.3	China	18/01/2023	Shionogi & Co Ltd	Pending
2023-072576	Japan	18/01/2023	Shionogi & Co Ltd	Pending
2023202177	Australia	18/01/2023	Shionogi & Co Ltd	Pending
BR112024013549-7	Brazil	18/01/2023	Shionogi & Co Ltd	Pending
3242795	Canada	18/01/2023	Shionogi & Co Ltd	Pending
23714052.0	EP	18/01/2023	Shionogi & Co Ltd	Pending
62025103041.2	Hong Kong	18/01/2023	Shionogi & Co Ltd	Pending
2024-7027109	Korea	18/01/2023	Shionogi & Co Ltd	Pending
MX/a/2024/008910	Mexico	18/01/2023	Shionogi & Co Ltd	Pending
2024123662	Russia	18/01/2023	Shionogi & Co Ltd	Pending
18/729630	US	18/01/2023	Shionogi & Co Ltd	Pending

GRANTED PATENT RIGHTS

Patent number	Country	Applicant
7105430	Japan	Shionogi & Co Ltd and Hokkaido University
7530596	Japan	Shionogi & Co Ltd and Hokkaido University
7738869	Japan	Shionogi & Co Ltd and Hokkaido University
12583	Lebanon	Shionogi & Co Ltd and Hokkaido University
11814368	US	Shionogi & Co Ltd and Hokkaido University
10-2494188	Korea	Shionogi & Co Ltd and Hokkaido University
2022204775	Australia	Shionogi & Co Ltd and Hokkaido University
407674	Mexico	Shionogi & Co Ltd and Hokkaido University

F/P/2023/48	Nigeria	Shionogi & Co Ltd and Hokkaido University
11202254567Y	Singapore	Shionogi & Co Ltd and Hokkaido University
2022/12526	South Africa	Shionogi & Co Ltd and Hokkaido University
I815396	Taiwan	Shionogi & Co Ltd and Hokkaido University
ZL202210742186.2	China	Shionogi & Co Ltd and Hokkaido University
40081541	Hong Kong	Shionogi & Co Ltd and Hokkaido University
J/007620	Macao	Shionogi & Co Ltd and Hokkaido University
ZL202210983564.6	China	Shionogi & Co Ltd and Hokkaido University
298794	Israel	Shionogi & Co Ltd and Hokkaido University
MY-201668-A	Malaysia	Shionogi & Co Ltd and Hokkaido University
IDP000095119	Indonesia	Shionogi & Co Ltd and Hokkaido University
3195272	Canada	Shionogi & Co Ltd and Hokkaido University
BR112022023272-1	Brazil	Shionogi & Co Ltd and Hokkaido University
BR122023002208-4	Brazil	Shionogi & Co Ltd and Hokkaido University
2806042	Russia	Shionogi & Co Ltd and Hokkaido University
EP4122926	Albania	Shionogi & Co Ltd and Hokkaido University
EP4122926	Austria	Shionogi & Co Ltd and Hokkaido University
EP4122926	Belgium	Shionogi & Co Ltd and Hokkaido University
EP4122926	Bulgaria	Shionogi & Co Ltd and Hokkaido University

EP4122926	Switzerland	Shionogi & Co Ltd and Hokkaido University
EP4122926	Cyprus	Shionogi & Co Ltd and Hokkaido University
EP4122926	Czech Republic	Shionogi & Co Ltd and Hokkaido University
EP4122926	Germany	Shionogi & Co Ltd and Hokkaido University
EP4122926	Denmark	Shionogi & Co Ltd and Hokkaido University
EP4122926	Estonia	Shionogi & Co Ltd and Hokkaido University
EP4122926	Spain	Shionogi & Co Ltd and Hokkaido University
EP4122926	Finland	Shionogi & Co Ltd and Hokkaido University
EP4122926	France	Shionogi & Co Ltd and Hokkaido University
EP4122926	United Kingdom	Shionogi & Co Ltd and Hokkaido University
EP4122926	Greece	Shionogi & Co Ltd and Hokkaido University
EP4122926	Croatia	Shionogi & Co Ltd and Hokkaido University
EP4122926	Hungary	Shionogi & Co Ltd and Hokkaido University
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EP4122926	Latvia	Shionogi & Co Ltd and Hokkaido University
EP4122926	Monaco	Shionogi & Co Ltd and Hokkaido University
EP4122926	North Macedonia	Shionogi & Co Ltd and Hokkaido University
EP4122926	Malta	Shionogi & Co Ltd and Hokkaido University
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EP4122926	Serbia	Shionogi & Co Ltd and Hokkaido University
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EP4122926	Slovakia	Shionogi & Co Ltd and Hokkaido University
EP4122926	San Marino	Shionogi & Co Ltd and Hokkaido University
EP4122926	Türkiye	Shionogi & Co Ltd and Hokkaido University
1-2022-553603	Philippines	Shionogi & Co Ltd and Hokkaido University
49592	Vietnam	Shionogi & Co Ltd and Hokkaido University
71804	Chile	Shionogi & Co Ltd and Hokkaido University
EP4122926	France	Shionogi & Co Ltd and Hokkaido University

EP4122926	United Kingdom	Shionogi & Co Ltd and Hokkaido University
EP4122926	Greece	Shionogi & Co Ltd and Hokkaido University
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1-2022-553603	Philippines	Shionogi & Co Ltd and Hokkaido University
49592	Vietnam	Shionogi & Co Ltd and Hokkaido University
71804	Chile	Shionogi & Co Ltd and Hokkaido University
7236065	Japan	Shionogi & Co Ltd and Hokkaido University
7261529	Japan	Shionogi & Co Ltd
7253866	Japan	Shionogi & Co Ltd
7466731	Japan	Shionogi & Co Ltd
7273455	Japan	Shionogi & Co Ltd
9150546	US	Shionogi & Co Ltd
5692747	Japan	Shionogi & Co Ltd
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315392	Mexico	Shionogi & Co Ltd
173647	Singapore	Shionogi & Co Ltd
I457328	Taiwan	Shionogi & Co Ltd
5765753	Japan	Shionogi & Co Ltd