

# The Parasitoid Diversity and Their Role in the Control of the Siberian Moth, *Dendrolimus sibiricus* (Lepidoptera: Lasiocampidae), a Major Coniferous Pest in Northern Asia

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**Table S1.** The specimens of parasitoids reared from *Dendrolimus sibiricus* in Siberia (Russia) in 2018–2022 and the DNA barcodes of parasitoids borrowed from BOLD or GenBank for comparison.

No.	Sample ID	Family	Species	Country	Administrative region*	District	Collection Date	Collectors	Process ID	GenBank Accession Number
ORIGINAL SEQUENCES										
HYMENOPTERA										
1	NK1517	Braconidae	Aleiodes esenbeckii	Russia	Krasnoyarsk Terr.	Irbeiskiy district	30.IV.2020	Golovina A.N.	DSPAR033-22	OR732445
2	NK1516	Braconidae	Aleiodes esenbeckii	Russia	Krasnoyarsk Terr.	Irbeiskiy district	30.IV.2020	Golovina A.N.	DSPAR032-22	OR732433
3	NK1514	Braconidae	Aleiodes esenbeckii	Russia	Krasnoyarsk Terr.	Irbeiskiy district	30.IV.2020	Golovina A.N.	DSPAR030-22	OR732450
4	NK1513	Braconidae	Aleiodes esenbeckii	Russia	Tomsk Prov.	Shegarskiy district	19.IX.2018	Astapenko S.A.	DSPAR029-22	OR732462
5	NK1512	Braconidae	Aleiodes esenbeckii	Russia	Tomsk Prov.	Shegarskiy district	19.IX.2018	Astapenko S.A.	DSPAR028-22	OR732463
6	NK1511	Braconidae	Aleiodes esenbeckii	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR027-22	OR732438
7	NK1510	Braconidae	Aleiodes esenbeckii	Russia	Tomsk Prov.	Shegarskiy district	19.IX.2018	Astapenko S.A.	DSPAR026-22	OR732424
8	NK1509	Braconidae	Aleiodes esenbeckii	Russia	Tomsk Prov.	Shegarskiy district	19.IX.2018	Astapenko S.A.	DSPAR025-22	OR732431

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9	NK1508	Braconidae	Aleiodes esenbeckii	Russia	Tomsk Prov.	Shegarskiy district	19.IX.2018	Astapenko S.A.	DSPAR024-22	OR732439
10	NK1501	Braconidae	Aleiodes esenbeckii	Russia	Krasnoyarsk Terr.	Irbeiskiy district	15.VI.2021	Astapenko S.A.	DSPAR017-22	OR732425
11	NK1500	Braconidae	Aleiodes esenbeckii	Russia	Krasnoyarsk Terr.	Irbeiskiy district	15.VI.2021	Astapenko S.A.	DSPAR016-22	OR732423
12	NK1499	Braconidae	Aleiodes esenbeckii	Russia	Tomsk Prov.	Asinovskiy district	21.IX.2018	Ageev A.A	DSPAR015-22	OR732429
13	NK1487	Braconidae	Aleiodes esenbeckii	Russia	Krasnoyarsk Terr.	Irbeiskiy district	26.VIII.2019	Astapenko S.A.	DSPAR003-22	OR732461
14	NK1507	Braconidae	Cotesia ordinaria	Russia	Irkutsk Prov.	Kachugskiy district	16.VII.2021	Ageev A.A	DSPAR023-22	OR732422
15	NK1506	Braconidae	Cotesia ordinaria	Russia	Irkutsk Prov.	Kachugskiy district	16.VII.2021	Ageev A.A	DSPAR022-22	OR732437
16	NK1505	Braconidae	Cotesia ordinaria	Russia	Krasnoyarsk Terr.	Irbeiskiy district	15.VI.2021	Astapenko S.A.	DSPAR021-22	OR732447
17	NK1504	Braconidae	Cotesia ordinaria	Russia	Krasnoyarsk Terr.	Irbeiskiy district	15.VI.2021	Astapenko S.A.	DSPAR020-22	OR732460
18	NK1503	Braconidae	Cotesia ordinaria	Russia	Krasnoyarsk Terr.	Irbeiskiy district	30.IV.2020	Golovina A.N.	DSPAR019-22	OR732459
19	NK1502	Braconidae	Cotesia ordinaria	Russia	Krasnoyarsk Terr.	Irbeiskiy district	30.IV.2020	Golovina A.N.	DSPAR018-22	OR732454
20	NK1490	Braconidae	Glyptapanteles liparidis	Russia	Irkutsk Prov.	Kachugskiy district	16.VII.2021	Ageev A.A	DSPAR006-22	OR732467
21	NK1489	Braconidae	Glyptapanteles liparidis	Russia	Irkutsk Prov.	Kachugskiy district	16.VII.2021	Ageev A.A	DSPAR005-22	OR732457
22	NK1493	Encyrtidae	Ooencyrtus pinicolus	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR009-22	OR732420
23	NK1492	Encyrtidae	Ooencyrtus pinicolus	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR008-22	OR732436

No.	Sample ID	Family	Species	Country	Administrative region*	District	Collection Date	Collectors	Process ID	GenBank Accession Number
24	NK1573	Encyrtidae	Ooencyrtus pinicolus	Russia	Tyva Rep.	Targalovka location	09.VIII.1963	Kondakov Yu.P.	DSPAR089-22	OR732426
25	NK1570	Encyrtidae	Ooencyrtus pinicolus	Russia	Tyva Rep.	Targalovka location	09.VIII.1963	Kondakov Yu.P.	DSPAR086-22	OR732444
26	NK1568	Encyrtidae	Ooencyrtus pinicolus	Russia	Tyva Rep.	Targalovka location	09.VIII.1963	Kondakov Yu.P.	DSPAR084-22	OR732442
27	NK1563	Encyrtidae	Ooencyrtus pinicolus	Russia	Tyva Rep.	Targalovka location	09.VIII.1963	Kondakov Yu.P.	DSPAR079-22	OR732458
28	NK1486	Ichneumonidae	Habronyx heros	Russia	Krasnoyarsk Terr.	Irbeiskiy district	06.IX.2019	Astapenko S.A.	DSPAR002-22	OR732464
29	NK1498	Ichneumonidae	Hyposoter validus	Russia	Tomsk Prov.	Asinovskiy district	21.IX.2018	Ageev A.A	DSPAR014-22	OR732452
30	NK1488	Ichneumonidae	Hyposoter validus	Russia	Tomsk Prov.	Asinovskiy district	21.IX.2018	Ageev A.A	DSPAR004-22	OR732449
31	NK1515	Perilampidae	Perilampus nitens	Russia	Krasnoyarsk Terr.	Irbeiskiy district	15.VII.2020	Ageev A.A	DSPAR031-22	OR732441
32	NK1524	Pteromalidae	Pachyneuron solitarium	Russia	Irkutsk Prov.	Kachugskiy district	29.VII.2020	Astapenko S.A.	DSPAR040-22	OR732430
33	NK1494	Pteromalidae	Pachyneuron solitarium	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR010-22	OR732440
34	NK1491	Pteromalidae	Pachyneuron solitarium	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR007-22	OR732443
35	NK1523	Scelionidae	Telenomus tetratomus	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Astapenko S.A.	DSPAR039-22	OR732427
36	NK1518	Scelionidae	Telenomus tetratomus	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR034-22	OR732448
37	NK1497	Scelionidae	Telenomus tetratomus	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR013-22	OR732428
38	NK1496	Scelionidae	Telenomus tetratomus	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Ageev A.A	DSPAR012-22	OR732446

No.	Sample ID	Family	Species	Country	Administrative region*	District	Collection Date	Collectors	Process ID	GenBank Accession Number
39	NK1522	Trichogrammatidae	Trichogramma dendrolimi	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Astapenko S.A.	DSPAR038-22	OR732453
40	NK1521	Trichogrammatidae	Trichogramma dendrolimi	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Astapenko S.A.	DSPAR037-22	OR732455
41	NK1520	Trichogrammatidae	Trichogramma dendrolimi	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Astapenko S.A.	DSPAR036-22	OR732435
42	NK1519	Trichogrammatidae	Trichogramma dendrolimi	Russia	Irkutsk Prov.	Kachugskiy district	28.VII.2020	Astapenko S.A.	DSPAR035-22	OR732466
<b>DIPTERA</b>										
43	NK1526	Tachinidae	Exorista larvarum	Russia	Tyva Rep.	Ishtii-Khem village	01.VIII.1963	Kondakov Yu.P.	DSPAR042-22	OR732432
44	NK1531	Tachinidae	Masicera sphingivora	Russia	Tyva Rep.	Ishtii-Khem village	18.III.1964	Kondakov Yu.P.	DSPAR047-22	OR732434
45	NK1530	Tachinidae	Masicera sphingivora	Russia	Tyva Rep.	Ishtii-Khem village	15.IV.1964	—	DSPAR046-22	OR732456
46	NK1529	Tachinidae	Masicera sphingivora	Russia	Tyva Rep.	Ishtii-Khem village	20.III.1964	—	DSPAR045-22	OR732421
47	NK1528	Tachinidae	Masicera sphingivora	Russia	Tyva Rep.	Ishtii-Khem village	13.III.1964	Kondakov Yu.P.	DSPAR044-22	OR732451
48	NK1527	Tachinidae	Masicera sphingivora	Russia	Tyva Rep.	Ishtii-Khem village	18.III.1964	—	DSPAR043-22	OR732465
<b>SEQUENCES BORROWED FROM BOLD OR GENBANK</b>										
<b>HYMENOPTERA</b>										
49	KU682240	Braconidae	Aleiodes esenbeckii	Spain	—	—	—	—	GBMIN74556-17	KU682240
50	MRS_JFT0716	Braconidae	Cotesia sp.	United Kingdom	—	—	15.VI.2016	Shaw M.R.	BCNCA261-18	OR732419

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51	KY421536	Braconidae	Glyptapanteles liparidis	Czech Rep.	—	—	—	—	GBMIN74375-17	KY421536
52	MN521025	Encyrtidae	Ooencyrtus sp. SAEVG Morph0251	India	—	—	01.X.2015	—	GBMNC44807-20	MN521025
53	INDOBIO SYS-CCDB25314-H11	Perilampidae	—	Indonesia	Jawa Barat	—	05.X.2015	Schmidt S.	BCIND760-16	MH926749
54	BIOUG24698-E09	Pteromalidae	—	Canada	Ontario	Guelph	26.VIII.2014	Meredith G.	GMOUF696-15	MG380662
55	BIOUG17132-E12	Scelionidae	—	Canada	Northwest Terr.	Nahanni Nat. Park	04.VII.2014	—	CNNHB2693-14	MG509194
56	BIOUG17632-B12	Scelionidae	—	Canada	Northwest Terr.	Nahanni Nat. Park	08.VIII.2014	—	CNNHG1972-14	KR792756
57	MG932197	Trichogrammatidae	Trichogramma dendrolimi	Italy	—	—	—	—	GBMNA19717-19	MG932197
58	MG932179	Trichogrammatidae	Trichogramma dendrolimi	China	—	—	01.I.1992	—	GBMNA19713-19	MG932179
<b>DIPTERA</b>										
59	AB700013	Tachinidae	Exorista larvarum	Japan	Hokkaido-chiho	Hokkaido	—	—	GBDP14050-13	AB700013
60	BIOUG05974-D07	Tachinidae	Exorista larvarum	Canada	Saskatchewan	Prince Albert National Park	14.VII.2012	—	SSPAA2893-13	KM913279
61	JP00410	Tachinidae	Masicera silvatica	France	Provence-Alpes-Cote d'Azur	Hautes-Alpes	16.VII.2009	Tschorsnig	TACFI580-12	KX843725

No.	Sample ID	Family	Species	Country	Administrative region*	District	Collection Date	Collectors	Process ID	GenBank Accession Number
OUTGROUPS										
1	NK258	Tenthredinidae	Profenusa thomsoni	Russia	Novosibirsk Prov.	Central Siberian Bot. garden	10.VII.2012	Kirichenko N.	ISSIK122-14	KX360278
2	NK261	Agromyzidae		Russia	Novosibirsk Prov.	Central Siberian Bot. garden	05.VIII.2011	Kirichenko N.	ISSIK125-14	OP292611

Remarks: \*States: Terr. – Territory, Prov. – Province, Rep. – Republic; — data are not available.