

Table S1: Species of Microgastrinae from Churchill, Manitoba, Canada. Data comprise the first half of the 20th century (1930-1950's), referred as "Hist" in the heading of the second column; and recent collecting (2005-2007), referred as "Cont" in the heading of the third column. Species presence (+) or absence (-) is shown for Old and New data. Collecting dates were grouped in first and second half of every month sampled, indicated in the table headings with Arabic numbers (1 or 2) followed by the corresponding month (June=Jun, July=Jul, August=Aug). New records for Manitoba (*) or the Nearctic (**) are marked in the table. N/B marks the species with no barcodes available from this study.

ON=Ontario, QC=Quebec, NWT=Northwest Territories, SK=Saskatchewan, AB=Alberta, NU=Nunavat, BC=British Columbia, NFLD=Newfoundland, Greenland=GR

	Hist	Cont	Affinities	01-Jun	02-Jun	01-Jul	02-Jul	01-Aug	02-Aug	Tot
<i>Apanteles ensiger</i>	-	+	ON, QC	0	0	0	1	1	1	3
<i>Apanteles fumiferanae</i> *	+	+	Only Churchill	0	1	0	0	0	1	2
<i>Apanteles morrisi</i> N/B	-	+		0	0	1	0	0	0	1
<i>Apanteles petrovae</i> *	-	+	ON, QC	0	0	0	0	1	0	1
<i>Apanteles polychrosidis</i> *	-	+	Only Churchill	0	0	0	0	2	4	6
<i>Apanteles</i> jft01	-	+	ON, QC, YK	0	7	1	2	6	2	18
<i>Apanteles</i> jft02	-	+	Only Churchill	0	1	0	28	7	1	37
<i>Apanteles</i> jft03	-	+	Only Churchill	0	0	2	0	0	0	2
<i>Cotesia xylina</i>	+	+	YK, ON, AB, NWT	1	1	2	0	7	0	11
<i>Cotesia yakutatensis</i> *	+	+	Only Churchill	0	0	1	0	1	4	6
<i>Cotesia</i> jft01	-	+	Only Churchill	0	0	0	0	0	1	1
<i>Cotesia</i> jft02	-	+	ON, AB, SK	0	0	0	0	0	1	1
<i>Cotesia</i> jft03	-	+	ON	0	0	0	1	0	0	1
<i>Cotesia</i> jft04	-	+	ON	0	0	4	0	0	0	4
<i>Cotesia</i> jft05	-	+	ON	0	0	0	6	3	1	10
<i>Cotesia</i> jft06	-	+	Only Churchill	0	1	0	0	6	1	8
<i>Cotesia</i> jft07	-	+	QC, ON	0	2	1	0	0	0	3
<i>Cotesia</i> jft08	+	+	NU	0	2	7	5	0	0	14
<i>Cotesia</i> jft09	+	-	QC, NWT, NU, NFLD	0	0	0	0	10	0	10
<i>Cotesia</i> jft10	+	-	Only Churchill	0	2	1	0	0	0	3
<i>Diolcogaster</i> jft01	-	+	Only Churchill	0	0	0	0	0	1	1
<i>Diolcogaster</i> jft02	-	+	Only Churchill	0	0	0	1	0	0	1
<i>Dolichogenidea</i> jft01	+	+	YK	3	1	1	4	6	0	15
<i>Dolichogenidea</i> jft02	+	+	YK, ON, QC, NWT, AL	0	2	1	1	9	1	14
<i>Dolichogenidea</i> jft03	+	+	YK, AL, NWT, BC, NU	0	1	2	0	11	4	18
<i>Dolichogenidea</i> jft04	-	+	NWT	0	0	2	0	1	0	3
<i>Dolichogenidea</i> jft05	-	+	ON	0	0	1	0	1	2	4
<i>Dolichogenidea</i> jft06	-	+	YK, QC	0	0	0	0	2	0	2
<i>Dolichogenidea</i> jft07	+	-	Only Churchill	3	0	0	4	0	0	7
<i>Dolichogenidea</i> jft08	+	-	Only Churchill	0	0	0	1	2	0	3

Table S1: Species of Microgastrinae from Churchill, Manitoba, Canada. Data comprise the first half of the 20th century (1930-1950's), referred as "Hist" in the heading of the second column; and recent collecting (2005-2007), referred as "Cont" in the heading of the third column. Species presence (+) or absence (-) is shown for Old and New data. Collecting dates were grouped in first and second half of every month sampled, indicated in the table headings with Arabic numbers (1 or 2) followed by the corresponding month (June=Jun, July=Jul, August=Aug). New records for Manitoba (*) or the Nearctic (**) are marked in the table. N/B marks the species with no barcodes available from this study.

ON=Ontario, QC=Quebec, NWT=Northwest Territories, SK=Saskatchewan, AB=Alberta, NU=Nunavat, BC=British Columbia, NFLD=Newfoundland, Greenland=GR

	Hist	Cont	Affinities	01-Jun	02-Jun	01-Jul	02-Jul	01-Aug	02-Aug	Tot
<i>Dolichogenidea</i> jft09	+	-	QC	0	0	0	1	0	1	2
<i>Dolichogenidea</i> jft10	+	-	Only Churchill	0	0	2	5	0	0	7
<i>Glyptapanteles compressiventris</i> *	+	-	Only Churchill	3	0	3	0	0	0	6
<i>Glyptapanteles</i> jft01	-	+	NWT	0	0	6	3	1	17	27
<i>Glyptapanteles</i> jft02	-	+	Only Churchill	0	0	0	0	0	1	1
<i>Glyptapanteles</i> jft03	-	+	Only Churchill	0	0	0	1	1	0	2
<i>Glyptapanteles</i> jft04	-	+	Only Churchill	0	0	0	0	0	2	2
<i>Glyptapanteles</i> jft05	-	+	NU, QC, GR	0	1	0	0	2	37	40
<i>Glyptapanteles</i> jft06	-	+	Only Churchill	0	0	0	0	1	0	1
<i>Glyptapanteles</i> jft07	-	+	NU, NWT	0	0	2	1	0	0	3
<i>Glyptapanteles</i> jft08	-	+	Only Churchill	0	0	2	0	0	0	2
<i>Glyptapanteles</i> jft09	-	+	NU, NWT	0	0	0	0	0	1	1
<i>Illidops</i> jft01	+	-	Only Churchill	0	0	1	0	0	0	1
<i>Illidops</i> jft02	+	+	QC, NWT, NU	0	2	0	0	0	0	2
<i>Illidops</i> jft03	+	-	QC	4	0	2	0	4	1	11
<i>Microgaster canadensis</i>	-	+	SK	0	0	0	0	1	1	2
<i>Microgaster deductor</i> **	+	-	Only Churchill	0	2	16	13	7	0	38
<i>Microgaster</i> jft01	+	-	Only Churchill	0	1	0	0	0	0	1
<i>Microgaster</i> jft02	-	+	same as <i>Microgaster</i> jft02	0	6	2	1	3	2	14
<i>Microgaster</i> jft03	-	+	YK	0	0	1	0	0	0	1
<i>Microgaster</i> jft04	-	+	Only Churchill	0	0	1	0	0	0	1
<i>Microgaster</i> jft05	-	+	SK, YU	0	0	2	0	0	0	2
<i>Microgaster</i> jft06	-	+	Only Churchill	0	4	3	1	1	0	9
<i>Microgaster</i> jft07	-	+	Only Churchill	0	0	1	0	0	0	1
<i>Microgaster</i> jft08	+	+	NWT	0	0	2	0	0	0	2
<i>Microgaster</i> jft09	+	-	YU, AL	0	1	0	0	0	0	1
<i>Microplitis varicolor</i> *	+	+	YU, ON, AL, QC	0	15	9	12	22	15	73
<i>Microplitis</i> jft01	+	-	YU, GR, NWT	1	18	1	0	0	0	20
<i>Microplitis</i> jft02	-	+	AL	0	0	0	6	1	1	8
<i>Microplitis</i> jft03	+	-	SK	0	0	1	0	0	0	1

Table S1: Species of Microgastrinae from Churchill, Manitoba, Canada. Data comprise the first half of the 20th century (1930-1950's), referred as "Hist" in the heading of the second column; and recent collecting (2005-2007), referred as "Cont" in the heading of the third column. Species presence (+) or absence (-) is shown for Old and New data. Collecting dates were grouped in first and second half of every month sampled, indicated in the table headings with Arabic numbers (1 or 2) followed by the corresponding month (June=Jun, July=Jul, August=Aug). New records for Manitoba (*) or the Nearctic (**) are marked in the table. N/B marks the species with no barcodes available from this study.

ON=Ontario, QC=Quebec, NWT=Northwest Territories, SK=Saskatchewan, AB=Alberta, NU=Nunavat, BC=British Columbia, NFLD=Newfoundland, Greenland=GR

	Hist	Cont	Affinities	01-Jun	02-Jun	01-Jul	02-Jul	01-Aug	02-Aug	Tot
<i>Microplitis</i> jft04	-	+	NU, QC	0	9	5	4	6	18	42
<i>Microplitis</i> jft05	-	+	ON, NFLD	0	1	0	0	0	0	1
<i>Microplitis</i> jft06	-	+	NWT	0	0	1	1	2	0	4
<i>Microplitis</i> jft07	-	+	QC, ON	0	0	0	7	0	0	7
<i>Microplitis</i> jft08	-	+	YU, BC, NWT	0	0	4	4	0	0	8
<i>Microplitis</i> jft09	-	+	ON	0	0	0	1	0	0	1
<i>Microplitis</i> jft10	+	+	Only Churchill	0	2	3	0	0	0	5
<i>Microplitis</i> jft11	+	-	QC	0	0	0	0	1	0	1
<i>Microplitis</i> jft12	+	+	YU, NWT	0	1	0	2	1	0	4
<i>Pholetesor bedelliae</i> *	+	+	YU, SK, ON	0	0	1	2	0	3	6
<i>Pholetesor ornigis</i>	-	+	SK, ON, QC, YU	0	0	12	5	1	0	18
<i>Pholetesor salicifoliellae</i> *	-	+	ON, YU	0	3	6	4	9	1	23
<i>Pholetesor viminetorum</i> *	+	+	YU, ON, SK, NWT	0	2	9	17	3	0	31
<i>Pholetesor</i> jft01	-	+	NU	0	0	0	1	2	0	3
<i>Pholetesor</i> jft02	-	+	Only Churchill	0	0	0	2	0	0	2
<i>Protapanteles</i> jft01	+	+	YU, AB	0	1	0	1	0	0	2
<i>Protapanteles</i> jft02	-	+	ON	0	0	5	0	3	0	8
<i>Protapanteles</i> jft03 N/B	-	+	Only Churchill	0	0	0	1	0	0	1
<i>Sathon</i> jft01	-	+	Only Churchill	0	0	0	0	0	1	1
Total number of specimens	171	489		15	90	129	151	148	127	660
Total number of species	30	64		6	27	41	36	37	29	79