

1 **Supplementary File 1**

2 Sample IDs (BOLD datasystems) for the 190 larvae from canopy fogging in Panguana (Peru) with exposure times
 3 to sodium hypochlorite bleaching (in minutes). Sequencing success for the COI barcode region (fragment length
 4 in base pairs; first pass with standard primers, second pass / failure tracking targeting overlapping 306 bp /407
 5 bp amplicons) and for rcbL and ITS2 gene fragments (number of reads) in the High Throughput Sequencing (HTS)
 6 approach. For the 88 directly comparable larvae (same tree, same species, same moulting stage) the sample ID is
 7 marked by grey shading.

8

sample ID BC ZSM Lep	bleaching exposure	sequence length first pass	sequence length failure tracking	HTS (gut content) rbcl reads	HTS (gut) ITS2 reads	HTS (gut) reads total
107217	0	0	407	37268	4463	41731
107218	1	0	407	29392	0	29392
107219	1	658		27727	0	27727
107220	0	574		43640	0	43640
107221	0	0	0	55401	0	55401
107222	0	0	656	30317	0	30317
107223	1	0	657	56795	0	56795
107224	1	637		0	0	0
107225	0	658		45497	769	46266
107226	0	658		29160	3947	33107
107227	0	0	658	21025	0	21025
107228	1	658		0	0	0
107229	0	649		32824	0	32824
107230	0	658		0	0	0
107231	0	566		36716	4496	41212
107232	0	658		0	0	0
107233	1	622		0	0	0
107234	1	635		0	0	0
107235	0	641		17332	0	17332
107236	0	658		19669	0	19669
107237	0	0	658	33362	0	33362
107238	1	598		0	0	0
107239	0	0	0	66514	880	67394
107240	1	409	658	50331	0	50331
107241	0	0	658	37131	0	37131
107242	0	0	657	189	0	189
107243	0	0	340	43088	0	43088
107244	0	653		39525	0	39525
107245	0	658		39103	476	39579
107246	1	0	0	49088	409	49497

107247	0	658		35378	927	36305
107248	1	658		0	0	0
107249	1	623		46664	782	47446
107250	0	658		0	7793	7793
107251	1	0	407	44058	485	44543
107252	0	622		52782	718	53500
107253	0	658		35152	0	35152
107254	0	645		47213	1186	48399
107255	1	639		0	0	0
107256	0	658		46391	0	46391
107257	1	583		0	0	0
107258	0	644		48224	1700	49924
107259	1	658		37742	0	37742
107260	0	562		42871	565	43436
107261	0	632		0	204	204
107262	0	658		50176	4850	55026
107263	1	639		41591	0	41591
107264	0	0	519	44621	5243	49864
107265	1	658		31475	4474	35949
107266	1	658		0	0	0
107267	0	638		3198	0	3198
107268	1	658		26354	0	26354
107269	0	638		60994	0	60994
107270	1	0	658	56595	0	56595
107271	1	0	631	52834	0	52834
107272	0	658		56316	0	56316
107273	1	658		52263	0	52263
107274	0	632		0	1153	1153
107275	0	658		38573	0	38573
107276	1	658		0	0	0
107277	0	658		0	0	0
107278	0	606		64476	3887	68363
107279	0	571		147	1256	1403
107280	1	0	658	53071	0	53071
107281	1	567		38591	7792	46383
107282	0	630		54862	0	54862
107283	0	638		44802	0	44802
107284	1	631		65108	0	65108
107285	0	658		0	0	0
107286	1	602		28309	0	28309
107287	0	631		14828	0	14828
107288	0	0	0	51371	0	51371
107289	0	634		0	0	0

107290	1	0	402	0	0	0
107291	0	566		0	0	0
107292	1	627		0	0	0
107293	0	0	658	38987	179	39166
107294	0	658		53581	693	54274
107295	0	658		41451	1016	42467
107296	0	0	0	51121	0	51121
107297	1	0	0	0	0	0
107298	0	658		34905	0	34905
107299	1	627		40164	496	40660
107300	1	658		27802	0	27802
107301	0	658		27060	1959	29019
107302	0	658		49269		49269
107303	1	658		35454	8778	44232
107304	0	658		46573	0	46573
107305	1	658		41967	0	41967
107306	0	658		0	0	0
107307	1	658		45481	0	45481
107308	0	0	307	37894	0	37894
107309	0	658		46838	4426	51264
107310	0	658		40191	0	40191
107311	0	658		57345	0	57345
107312	0	658		8040	0	8040
107313	0	658		17953	0	17953
107314	1	658		54770	0	54770
107315	1	658		3256	0	3256
107316	1	658		0	0	0
107317	0	637		6656	0	6656
107318	0	658		12019	2696	14715
107319	2	0	0	35847	0	35847
107320	2	658		55731	0	55731
107321	2	0	0	100	0	100
107322	0	621		4249	6914	11163
107323	2	658		3007	0	3007
107324	0	647		2916	15524	18440
107325	2	561		294	24514	24808
107326	0	197	338	0	0	0
107327	0	0	658	20564	0	20564
107328	0	624		979	0	979
107329	0	623		0	155	155
107330	2	0	658	0	0	0
107331	0	586		0	0	0
107332	0	658		0	0	0

107333	2	585		433	0	433
107334	0	610		10475	0	10475
107335	2	584		0	0	0
107336	0	658		0	0	0
107337	0	0	0	86601	0	86601
107338	2	658		0	0	0
107339	2	634		379	5216	5595
107340	0	658		14828	155	14983
107341	2	645		0	0	0
107342	0	633		0	0	0
107343	0	658		140	9093	9233
107344	0	658		705	0	705
107345	2	658		8805	18075	26880
107346	0	625		4663	0	4663
107347	0	658		0	0	0
107348	0	633		0	2912	2912
107349	2	647		0	0	0
107350	2	622		0	0	0
107351	0	618		19911	0	19911
107352	0	658		22036	105	22141
107353	0	634		19988	9822	29810
107354	0	621		31071	0	31071
107355	2	0	0	27655	0	27655
107356	2	608		13083	124	13207
107357	0	647		0	0	0
107358	2	0	0	33215	178	33393
107359	0	0	286	0	163	163
107360	0	658		19378	0	19378
107361	2	658		21534	201	21735
107362	0	601		19934	1948	21882
107363	0	0	658	18829	0	18829
107364	0	658		0	0	0
107365	2	543		104	3443	3547
107366	0	658		0	0	0
107367	0	658		0	12599	12599
107368	2	645		0	0	0
107369	2	658		0	0	0
107370	0	633		22247	0	22247
107371	2	658		22216	10004	32220
107372	0	628		13821	490	14311
107373	2	658		0	0	0
107374	0	601		52483	0	52483
107375	0	645		28020	4667	32687

107376	0	645		32067	0	32067
107377	0	614		0	0	0
107378	0	658		23301	0	23301
107379	2	658		108	0	108
107380	2	658		34385	0	34385
107381	2	603		0	0	0
107382	2	632		14684	0	14684
107383	2	658		13481	0	13481
107384	0	0	658	0	0	0
107385	0	0	548	0	0	0
107386	2	0	658	0	0	0
107387	2	0	658	31633	2836	34469
107388	2	0	658	0	0	0
107389	0	0	658	52478	0	52478
107390	2	247	658	0	0	0
107391	0	0	658	22750	0	22750
107392	2	658		17877	109	17986
107393	0	658		31034	498	31532
107394	2	532		63068	0	63068
107395	0	658		53154	0	53154
107396	2	613		20651	0	20651
107397	0	0	658	0	0	0
107398	0	658		29708	994	30702
107399	0	658		17073	3253	20326
107400	2	658		0	0	0
107401	0	501		0	0	0
107402	0	0	658	31094	0	31094
107403	0	658		10567	0	10567
107404	2	624		33938	0	33938
107405	2	658		0	0	0
107406	0	605		141	0	141