

**Table S3. The 50 most abundant OTUs in wild rodents and controls.** The twelve pathogenic OTUs from wild rodents are in bold and italic. The two OTUs from PC<sub>alien</sub> (PC<sub>Borrelia\_b</sub> & PC<sub>Mycoplasma\_m</sub>) are highlighted in grey. A blank space was added at the end of the table to distinguish the first 50 most abundant OTUs and the *Mycoplasma\_OTU\_6* and *Rickettsia\_OTU* ranked in position 57 and 574 respectively.

OTU name	Phylum	Class	Order	Family	Genus	Total number of sequences (Run1 & Run2)	Run 1				Run 2					
							Wild rodents	All Negative Controls (NC)	NC <sub>neg</sub> & NC <sub>PCR</sub>	All Positive Controls (PC)	PC <sub>alien</sub> (PC <sub>Borrelia_b</sub> & PC <sub>Mycoplasma_m</sub> )	Wild rodents	All Negative Controls (NC)	NC <sub>neg</sub> & NC <sub>PCR</sub>	All Positive Controls (PC)	PC <sub>alien</sub> (PC <sub>Borrelia_b</sub> & PC <sub>Mycoplasma_m</sub> )
Otu00001	Actinobacteria(100)	Actinobacteria(100)	Micrococcales(100)	Brevibacteriaceae(100)	<i>Brevibacterium(100)</i>	2 206 731	310	0	0	0	0	2 123 547	78 360	78 360	4 514	4 387
<b>Bartonella_OTU</b>	<b>Proteobacteria(100)</b>	<b>Alphaproteobacteria(100)</b>	<b>Rhizobiales(100)</b>	<b>Bartonellaceae(100)</b>	<b><i>Bartonella(100)</i></b>	<b>1 761 155</b>	<b>67 973</b>	<b>3</b>	<b>2</b>	<b>134 151</b>	<b>27</b>	<b>1 547 652</b>	<b>3</b>	<b>3</b>	<b>11 373</b>	<b>76</b>
<i>Mycoplasma_OTU_1</i>	<i>Tenericutes(100)</i>	<i>Mycoplasmatales(100)</i>	<i>Mycoplasmatales(100)</i>	<i>Mycoplasmataceae(100)</i>	<i>Mycoplasma(100)</i>	1 565 704	1 410 189	14	5	15	12	155 486	0	0	0	0
<i>Mycoplasma_OTU_2</i>	<i>Tenericutes(100)</i>	<i>Mycoplasmatales(100)</i>	<i>Mycoplasmatales(100)</i>	<i>Mycoplasmataceae(100)</i>	<i>Mycoplasma(100)</i>	1 036 084	0	0	0	0	0	1 035 890	193	193	1	1
<b><i>Ehrlichia_OTU</i></b>	<b>Proteobacteria(100)</b>	<b>Rickettsiales(100)</b>	<b>Anaplasmatales(100)</b>	<b>Anaplasmataceae(100)</b>	<b><i>Ehrlichia(100)</i></b>	<b>723 468</b>	<b>649 423</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>13</b>	<b>74 017</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Otu00004	Proteobacteria(100)	Gammaproteobacteria(100)	Pseudomonadales(100)	Pseudomonadaceae(100)	<i>Pseudomonas(100)</i>	700 806	645 274	50 018	41 700	469	465	4 864	178	178	3	3
<b><i>Mycoplasma_OTU_3</i></b>	<b>Tenericutes(100)</b>	<b>Mycoplasmatales(100)</b>	<b>Mycoplasmatales(100)</b>	<b>Mycoplasmataceae(100)</b>	<b><i>Mycoplasma(100)</i></b>	<b>507 369</b>	<b>634 967</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>127 990</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
Otu00003	Actinobacteria(100)	Actinobacteria(100)	Micrococcales(100)	Dermatobacteriaceae(100)	<i>Brachybacterium(100)</i>	525 798	3 161	97	0	0	0	503 804	18 976	18 976	750	670
<b><i>Borrelia_OTU</i></b>	<b>Spirochaetes(100)</b>	<b>Spirochaetales(100)</b>	<b>Spirochaetales(100)</b>	<b>Spirochaetaceae(100)</b>	<b><i>Borrelia(100)</i></b>	<b>367 509</b>	<b>345 845</b>	<b>20</b>	<b>11</b>	<b>8</b>	<b>7</b>	<b>21 636</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
PC <sub>Mycoplasma_m</sub> _OTU	Tenericutes(100)	Mycoplasmatales(100)	Entomoplasmatales(100)	Entomoplasmataceae(100)	<i>Incertae_Sedis(100)</i>	297 005	338	2	0	279 811	279 777	2	0	0	16 852	16 852
<b><i>Orientia_OTU</i></b>	<b>Proteobacteria(100)</b>	<b>Alphaproteobacteria(100)</b>	<b>Rickettsiales(100)</b>	<b>Rickettsiaceae(100)</b>	<b><i>Orientia(100)</i></b>	<b>280 272</b>	<b>279 957</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>307</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Otu00007	Actinobacteria(100)	Actinobacteria(100)	Corynebacteriales(100)	Dietziaceae(100)	<i>Dietzia(100)</i>	275 814	809	34	0	0	0	262 593	12 032	12 032	346	327
Otu00009	Proteobacteria(100)	Gammaproteobacteria(100)	Pseudomonadales(100)	Moraxellaceae(100)	<i>Acinetobacter(100)</i>	262 495	248 538	1 556	1 366	6	6	11 678	711	711	6	6
Otu00010	Firmicutes(100)	Bacilli(100)	Lactobacillales(100)	Lactobacillaceae(100)	<i>Lactobacillus(100)</i>	258 007	244 861	995	1	5	5	12 146	0	0	0	0
PC <sub>Borrelia_b</sub> _OTU	Spirochaetes(100)	Spirochaetales(100)	Spirochaetales(100)	Spirochaetaceae(100)	<i>Borrelia(100)</i>	250 969	420	0	0	238 352	238 314	0	0	0	12 197	12 197
Otu00011	Firmicutes(100)	Bacilli(100)	Lactobacillales(100)	Lactobacillaceae(100)	<i>Lactobacillus(100)</i>	232 870	219 167	600	4	0	0	13 103	0	0	0	0
Otu00012	Firmicutes(100)	Bacilli(100)	Lactobacillales(100)	Lactobacillaceae(100)	<i>Lactobacillus(100)</i>	150 241	136 796	2 467	1	3	3	10 975	0	0	0	0
Otu00017	Proteobacteria(100)	Gammaproteobacteria(100)	Enterobacteriales(100)	Enterobacteriaceae(100)	<i>Unclassified(70)</i>	91 877	43 644	114	114	827	827	47 261	30	30	1	1
<b><i>Mycoplasma_OTU_4</i></b>	<b>Tenericutes(100)</b>	<b>Mycoplasmatales(100)</b>	<b>Mycoplasmatales(100)</b>	<b>Mycoplasmataceae(100)</b>	<b><i>Mycoplasma(100)</i></b>	<b>85 596</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85 583</b>	<b>13</b>	<b>13</b>	<b>0</b>	<b>0</b>
Otu00018	Proteobacteria(100)	Gammaproteobacteria(100)	Pasteurellales(100)	Pasteurellaceae(100)	<i>Unclassified(83)</i>	84 403	78 632	1 894	1 770	3	2	3 872	0	0	2	2
Otu00024	Firmicutes(100)	Bacilli(100)	Lactobacillales(100)	Leuconostocaceae(100)	<i>Weissella(100)</i>	82 171	77 033	50	4	3	3	5 085	0	0	0	0
Otu00028	Proteobacteria(100)	Betaproteobacteria(100)	Burkholderiales(100)	Oxalobacteraceae(100)	<i>Herbaspirillum(69)</i>	74 189	65 973	5 435	5 284	37	37	2 696	46	46	2	2
Otu00016	Proteobacteria(100)	Betaproteobacteria(100)	Burkholderiales(100)	Comamonadaceae(100)	<i>Pelomonas(75)</i>	73 751	50 487	9 966	7 973	64	64	12 874	1 350	1 350	10	10
Otu00023	Proteobacteria(100)	Epsilonproteobacteria(100)	Campylobacteriales(100)	Helicobacteraceae(100)	<i>Helicobacter(97)</i>	72 142	71 317	0	1	1	1	824	0	0	0	0
Otu00019	Proteobacteria(100)	Gammaproteobacteria(100)	Enterobacteriales(100)	Enterobacteriaceae(100)	<i>Unclassified(98)</i>	69 999	69 010	4	1	0	0	985	0	0	0	0
Otu00021	Proteobacteria(100)	Gammaproteobacteria(100)	Enterobacteriales(100)	Enterobacteriaceae(100)	<i>Yersinia(95)</i>	62 633	57 413	4 658	4 416	74	74	488	0	0	0	0
Otu00032	Bacteroidetes(100)	Bacteroidia(100)	Bacteroidales(100)	Bacteroidaceae(100)	<i>Bacteroides(100)</i>	56 644	11 247	1	1	0	0	45 396	0	0	0	0
<b><i>Mycoplasma_OTU_5</i></b>	<b>Tenericutes(100)</b>	<b>Mycoplasmatales(100)</b>	<b>Mycoplasmatales(100)</b>	<b>Mycoplasmataceae(100)</b>	<b><i>Mycoplasma(100)</i></b>	<b>56 324</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56 324</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Otu00030	Bacteroidetes(100)	Bacteroidia(100)	Bacteroidales(100)	Bacteroidaceae(100)	<i>Bacteroides(100)</i>	50 179	46 668	18	0	1	0	3 492	0	0	0	0
Otu00025	Firmicutes(100)	Bacilli(100)	Lactobacillales(100)	Lactobacillaceae(100)	<i>Lactobacillus(100)</i>	46 332	41 591	266	1	0	0	4 475	0	0	0	0
Otu00027	Firmicutes(100)	Bacilli(100)	Bacillales(100)	Bacillaceae(100)	<i>Geobacillus(97)</i>	42 581	41 128	1 179	5	0	0	271	0	0	3	3
Otu00036	Firmicutes(100)	Bacilli(100)	Lactobacillales(100)	Streptococcaceae(100)	<i>Streptococcus(100)</i>	39 271	31 561	6 137	5 309	0	0	1 568	2	2	3	2
Otu00026	Proteobacteria(100)	Gammaproteobacteria(100)	Pseudomonadales(100)	Moraxellaceae(100)	<i>Acinetobacter(100)</i>	38 173	33 294	797	580	15	15	3 443	67	67	557	557
Otu00022	Firmicutes(100)	Bacilli(100)	Staphylococcales(100)	Staphylococcaceae(100)	<i>Staphylococcus(67)</i>	35 526	22 065	923	515	0	0	11 996	527	527	15	10
Otu00038	Actinobacteria(100)	Actinobacteria(100)	Bifidobacteriales(100)	Bifidobacteriaceae(100)	<i>Bifidobacterium(100)</i>	35 027	31 814	212	1	0	0	3 001	0	0	0	0
Otu00142	Proteobacteria(100)	Gammaproteobacteria(100)	Aeromonadales(100)	Aeromonadaceae(100)	<i>Aeromonas(100)</i>	34 429	34 331	0	0	0	0	98	0	0	0	0
Otu00061	Proteobacteria(100)	Deltaproteobacteria(100)	Mycococcales(100)	Mycococcaceae(96)	<i>Unclassified(96)</i>	32 821	32 669	42	0	1	0	109	0	0	0	0
<b><i>Streptobacillus_OTU</i></b>	<b>Fusobacteria(100)</b>	<b>Fusobacteriales(100)</b>	<b>Fusobacteriales(100)</b>	<b>Leptotrichiaceae(100)</b>	<b><i>Streptobacillus(100)</i></b>	<b>32 399</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32 399</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Otu00039	Proteobacteria(100)	Alphaproteobacteria(100)	Caulobacteriales(100)	Caulobacteraceae(100)	<i>Brevundimonas(100)</i>	23 719	15 160	3 778	3 672	0	0	4 306	473	473	2	2
Otu00125	Bacteroidetes(100)	Bacteroidia(100)	Bacteroidales(100)	Prevotellaceae(100)	<i>Alloprevotella(100)</i>	23 197	22 943	43	0	0	0	211	0	0	0	0
Otu00049	Deinococcus-Thermus(100)	Deinococcus-Thermus(100)	Thermales(100)	Thermaceae(100)	<i>Methanothermobacter(100)</i>	23 074	21 780	964	1	0	0	330	0	0	0	0
Otu00051	Proteobacteria(100)	Epsilonproteobacteria(100)	Campylobacteriales(100)	Helicobacteraceae(100)	<i>Helicobacter(99)</i>	22 844	4 985	0	0	0	0	17 859	0	0	0	0
Otu00070	Bacteroidetes(100)	Bacteroidia(100)	Bacteroidales(100)	Prevotellaceae(100)	<i>Prevotella(99)</i>	22 649	19 711	890	2	0	0	2 048	0	0	0	0
Otu00045	Proteobacteria(100)	Gammaproteobacteria(100)	Enterobacteriales(100)	Enterobacteriaceae(100)	<i>Proteus(99)</i>	22 344	87	0	0	0	0	22 257	0	0	0	0
Otu00033	Proteobacteria(100)	Alphaproteobacteria(100)	Sphingomonadales(100)	Sphingomonadaceae(80)	<i>Sphingomonas(59)</i>	19 819	15 822	519	246	13	13	3 330	135	135	0	0
Otu00058	Proteobacteria(100)	Gammaproteobacteria(100)	Xanthomonadales(100)	Xanthomonadaceae(100)	<i>Xanthomonas(99)</i>	16 794	15 899	722	2	0	0	173	0	0	0	0
Otu00076	Bacteroidetes(100)	Bacteroidia(100)	Bacteroidales(100)	S24-7(100)	<i>Unclassified(100)</i>	16 544	15 459	206	1	0	0	879	0	0	0	0
Otu00040	Firmicutes(100)	Bacilli(100)	Bacillales(100)	Planococcaceae(98)	<i>Unclassified(58)</i>	16 005	12 278	1 819	1	0	0	1 901	7	7	0	0
Otu00050	Bacteroidetes(100)	Bacteroidia(100)	Bacteroidales(100)	Bacteroidaceae(100)	<i>Bacteroides(100)</i>	15 883	14 752	0	0	0	0	1 131	0	0	0	0
Otu00043	Firmicutes(100)	Clostridiales(100)	Clostridiales(100)	Ruminococcaceae(100)	<i>Unclassified(99)</i>	15 284	14 210	127	0	0	0	947	0	0	0	0
<b><i>Mycoplasma_OTU_6*</i></b>	<b>Tenericutes(100)</b>	<b>Mollicutes(100)</b>	<b>Mycoplasmatales(100)</b>	<b>Mycoplasmataceae(100)</b>	<b><i>Mycoplasma(100)</i></b>	<b>13 356</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13 356</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b><i>Rickettsia_OTU**</i></b>	<b>Proteobacteria(100)</b>	<b>Alphaproteobacteria(100)</b>	<b>Rickettsiales(100)</b>	<b>Rickettsiaceae(100)</b>	<b><i>Rickettsia(100)</i></b>	<b>593</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>589</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Other OTUs	/	/	/	/	/	1 668 136	1 376 047	57 967	12 205	3 650	438	228 260	1 461	1 461	751	138
Total number of sequences:						14 647 593	7 149 444	153 558	85 208	657 531	520 107	6 525 107	114 565	114 565	47 388	35 246

\* *Mycoplasma\_OTU\_6* is ranked in position 57  
 \*\* *Rickettsia\_OTU* is ranked in position 574