

The Potential Implications of Sex-Specific Differences in the Intestinal Bacteria of the Overwintering Wolf Spider *Pardosa astrigera* (Araneae: Lycosidae)

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Table S1. Comparison of dominant species of intestinal bacteria (mean \pm S.D.) between two sexes of *Pardosa astrigera* based on independent *t*-test

Phylum	Family	Species	Female (%)	Male (%)	<i>p</i> value *
Proteobacteria	Pseudomonadaceae	<i>Pseudomonas versuta</i>	24.38 \pm 10.28	45.18 \pm 2.40	0.0270
Actinobacteria	Nocardiaceae	<i>Rhodococcus erythropolis</i>	19.30 \pm 9.71	40.04 \pm 2.87	0.0238
Bacteroidota	Rikenellaceae	uncultured_bacterium_g_Rikenellaceae_RC9_gut_group	5.96 \pm 2.04	1.16 \pm 0.72	0.0183
Bacteroidota	unclassified_o__Bacteroidales	unclassified_o__Bacteroidales	3.66 \pm 0.40	1.05 \pm 0.2	0.0008
Bacteroidota	Muribaculaceae	uncultured_bacterium_g_norank_f_Muribaculaceae	2.82 \pm 4.30	0.05 \pm 0.01	0.3267
Verrucomicrobiota	Akkermansiaceae	<i>Akkermansia muciniphila</i>	2.56 \pm 4.44	0	0.3736
Bacteroidota	Bacteroidaceae	unclassified_g__Bacteroides	1.66 \pm 0.64	0.30 \pm 0.19	0.0239
Firmicutes	Peptostreptococcaceae	<i>Romboutsia ilealis</i>	1.49 \pm 0.52	0.40 \pm 0.03	0.0218
Bacteroidota	Prevotellaceae	uncultured_bacterium_g_Prevotellaceae_UCG-001	1.59 \pm 2.55	0.04 \pm 0.04	0.3511
Firmicutes	norank_o__Clostridia	unclassified_g_norank_f_norank_o__Clostridia_UCG-014	1.61 \pm 2.62	0.01 \pm 0.01	0.3512
Bacteroidota	Bacteroidaceae	<i>Bacteroides barnesiae</i>	1.41 \pm 0.96	0.20 \pm 0.11	0.0956
Firmicutes	Lachnospiraceae	uncultured_Clostridiales_bacterium_g_Ruminococcus_torques_group	1.18 \pm 0.31	0.38 \pm 0.03	0.0108

Firmicutes	Erysipelotrichaceae	uncultured_bacterium_g__ <i>Dubosiella</i>	1.47 ± 2.55	0	0.3739
Firmicutes	Lactobacillaceae	<i>Lactobacillus reuteri</i>	1.31 ± 1.16	0.14 ± 0.08	0.1563
Bacteroidota	Rikenellaceae	unclassified_g__Rikenellaceae_RC9_gut_group	1.14 ± 0.71	0.22 ± 0.09	0.0887

* $p < 0.05$ indicates significant difference