

Table 7. Spearman Correlation p values for the 22 genera identified in gut microbiota in behavior performance and motor activity.

Bacteria	Exploration time_Nov	MA Distance	MA Resting Time	Retention Preference	Training Preference
<i>g_Bifidobacterium</i>	0.220	0.268	0.003	0.0001	0.052
<i>f_Coriobacteriaceae</i>	0.104	0.717	0.381	0.107	0.013
<i>g_Adlercreutzia</i>	0.397	0.597	0.735	0.404	0.010
<i>o_Bacteroidales</i>	0.586	0.314	0.246	0.045	0.789
<i>g_Bacteroides</i>	0.436	0.049	0.054	0.040	0.514
<i>g_Paraprevotella</i>	0.611	0.958	0.295	0.011	0.071
<i>g_Prevotella</i>	0.778	0.279	0.135	0.027	0.354
<i>g_Rikenella</i>	0.995	0.531	0.878	0.042	0.575
<i>g_Mucispirillum</i>	0.328	0.383	0.625	0.094	0.035
<i>g_Lactobacillus</i>	0.139	0.276	0.097	0.010	0.046
<i>g_Streptococcus</i>	0.050	0.578	0.667	0.055	0.001
<i>g_Clostridium</i>	0.192	0.937	0.321	0.046	0.367
<i>g_Dahalobacterium</i>	0.589	0.348	0.089	0.028	0.921
<i>g_Dorea</i>	0.040	1	0.104	0.000	0.055
<i>g_Lachnospira</i>	0.494	0.429	0.746	0.042	0.199
<i>f_Ruminococcaceae</i>	0.859	0.042	0.061	0.193	0.407
<i>g_Allobaculum</i>	0.152	0.209	0.003	0.003	0.005
<i>c_Alphaproteobacteria</i>	0.886	0.223	0.026	0.128	0.202
<i>f_Desulfovibrionaceae</i>	0.097	0.188	0.007	0.000	0.122
<i>g_Edwadsia</i>	0.049	0.467	0.442	0.334	0.997
<i>g_Anaeroplasm</i>	0.163	0.491	0.237	0.005	0.767
<i>g_Akkermansia</i>	0.847	0.592	0.266	0.031	0.060

Note: Nov: novel-object localization, MA: Motor activity represents significant differences ($p < 0.05$)