Table 5.2.7: Correlation observed among log count of *Lactobacillius, Biffidobacterium, E. coli*, serum cortisol, constipation, depression status and nutrients intake

		Depression Score	Serum Cortisol	*Lactobacillus*	*Bifidobacterium*	*E. coli*	Protein	Fat	CHO	Zinc	Mg	Ca	Fe	Omega3	Omeg6	Defecation Profile
Depression Score	Pearson Correlation	1	-.005	-.701***	-.116	.835***	-.023	.016	.229*	-.125	-.052	.121	-.094	.107	.084	.689***
	Sig. (2-tailed)		.958	.000	.207	.000	.801	.864	.012	.173	.576	.189	.307	.245	.361	.000
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Serum Cortisol	Pearson Correlation	-.005	1	-.005	.135	.037	.084	-.141	.071	-.104	-.008	-.026	.061	-.035	-.003	.075
	Sig. (2-tailed)	.958		.954	.141	.688	.363	.125	.439	.259	.929	.778	.509	.706	.977	.415
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Lactobacillus	Pearson Correlation	-.701***	-.005	1	.126	-.677***	.072	-.042	-.056	-.005	-.008	-.149	-.151	.048	.224*	-.509***
	Sig. (2-tailed)	.000	.954		.170	.000	.432	.651	.541	.954	.927	.104	.100	.605	.014	.000
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Bifidobacterium	Pearson Correlation	-.116	.135	.126	1	-.110	.252**	-.079	-.026	.127	-.170	.034	-.009	.025	.053	-.090
	Sig. (2-tailed)	.207	.141	.170		.232	.005	.388	.780	.166	.063	.716	.918	.790	.566	.327
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
E. coli	Pearson Correlation	.835***	.037	-.677***	-.110	1	-.134	-.064	.149	-.133	-.060	.112	-.097	.114	.130	.644***
	Sig. (2-tailed)	.000	.688	.000	.232		.144	.487	.104	.147	.516	.222	.291	.215	.158	.000
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Protein	Pearson Correlation	-.023	.084	.072	.252**	-.134	1	.125	-.079	.181*	.019	-.035	.029	.104	-.001	-.066
	Sig. (2-tailed)	.801	.363	.432	.005	.144		.172	.393	.048	.834	.705	.752	.258	.988	.475
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Fat	Pearson Correlation	.016	-.141	-.042	-.079	-.064	.125	1	-.008	.148	-.022	-.015	.147	.059	-.054	-.067
	Sig. (2-tailed)	.864	.125	.651	.388	.487	.172		.932	.107	.815	.874	.108	.521	.558	.470
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
CHO	Pearson Correlation	.229*	.071	-.056	-.026	.149	-.079	-.008	1	.063	-.096	-.070	.024	.013	-.013	.058
	Sig. (2-tailed)	.012	.439	.541	.780	.104	.393	.932		.496	.298	.450	.794	.884	.890	.526
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Zinc	Pearson Correlation	-.125	-.104	-.005	.127	-.133	.181*	.148	.063	1	.046	.032	.089	-.084	-.296***	-.216*
	Sig. (2-tailed)	.173	.259	.954	.166	.147	.048	.107	.496		.620	.731	.332	.364	.001	.018
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Mg	Pearson Correlation	-.052	-.008	-.008	-.170	-.060	.019	-.022	-.096	.046	1	-.003	-.053	-.042	.016	.004
	Sig. (2-tailed)	.576	.929	.927	.063	.516	.834	.815	.298	.620		.975	.565	.652	.859	.965
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Ca	Pearson Correlation	.121	-.026	-.149	.034	.112	-.035	-.015	-.070	.032	-.003	1	.051	-.105	-.021	.006
	Sig. (2-tailed)	.189	.778	.104	.716	.222	.705	.874	.450	.731	.975		.582	.252	.819	.951

	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Fe	**Pearson Correlation**	-.094	.061	-.151	-.009	-.097	.029	.147	.024	.089	-.053	.051	1	.001	**-.237****	-.107
	Sig. (2-tailed)	.307	.509	.100	.918	.291	.752	.108	.794	.332	.565	.582		.995	**.009**	.243
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	**120**	120
Omega3	**Pearson Correlation**	.107	-.035	.048	.025	.114	.104	.059	.013	-.084	-.042	-.105	.001	1	.125	.037
	Sig. (2-tailed)	.245	.706	.605	.790	.215	.258	.521	.884	.364	.652	.252	.995		.173	.686
	N	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Omeg6	**Pearson Correlation**	.084	-.003	**.224***	.053	.130	-.001	-.054	-.013	**-.296*****	.016	-.021	**-.237****	.125	1	.092
	Sig. (2-tailed)	.361	.977	**.014**	.566	.158	.988	.558	.890	**.001**	.859	.819	**.009**	.173		.316
	N	120	120	**120**	120	120	120	120	120	**120**	120	120	**120**	120	120	120
Defecation Profile	**Pearson Correlation**	.689**	.075	**-.509*****	-.090	**.644*****	-.066	-.067	.058	**-.216***	.004	.006	-.107	.037	.092	1
	Sig. (2-tailed)	.000	.415	**.000**	.327	**.000**	.475	.470	.526	**.018**	.965	.951	.243	.686	.316	
	N	120	120	**120**	120	**120**	120	120	120	**120**	120	120	120	120	120	120

NOTE: * significant at p value < 0.001; ** significant at p value < 0.01; * significant at p value < 0.05; NS = not significant**