

**Table S3.** Correlation matrix among raw spectrum physical activity intensity variables.

PA intensity (cpm)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 0-99	-.06	-.11	-.18	-.26	-.33	-.36	-.37	-.36	-.34	-.34	-.34	-.33	-.33	-.31	-.31	-.30	-.29	-.29	-.28	-.28	-.28	-.25
2 100-249		.98	.91	.80	.68	.57	.46	.37	.30	.27	.27	.27	.27	.26	.25	.25	.23	.22	.21	.22	.21	.17
3 250-499			.97	.88	.76	.64	.53	.44	.36	.32	.32	.32	.32	.31	.29	.29	.27	.26	.26	.26	.26	.19
4 500-999				.96	.87	.75	.63	.52	.43	.39	.38	.39	.38	.37	.35	.34	.33	.32	.31	.32	.32	.25
5 1000-1499					.96	.87	.74	.61	.51	.46	.45	.45	.44	.43	.41	.40	.37	.36	.36	.37	.37	.29
6 1500-1999						.96	.85	.70	.58	.51	.50	.50	.49	.47	.44	.43	.40	.39	.38	.39	.38	.32
7 2000-2499							.95	.83	.69	.61	.57	.55	.54	.52	.49	.46	.43	.41	.40	.40	.39	.32
8 2500-2999								.95	.84	.74	.68	.65	.62	.59	.55	.51	.48	.45	.43	.42	.40	.31
9 3000-3499									.96	.88	.81	.76	.71	.66	.61	.57	.53	.49	.46	.44	.42	.30
10 3500-3999										.97	.92	.86	.80	.74	.67	.62	.57	.53	.50	.48	.45	.30
11 4000-4499											.98	.93	.87	.80	.73	.67	.62	.58	.55	.52	.49	.30
12 4500-4999												.98	.93	.87	.80	.74	.68	.63	.60	.57	.54	.32
13 5000-5499													.98	.93	.87	.81	.76	.71	.67	.64	.61	.35
14 5500-5999														.98	.94	.89	.83	.78	.74	.71	.67	.39
15 6000-6499															.98	.95	.90	.85	.81	.77	.73	.41
16 6500-6999																.98	.95	.91	.87	.83	.79	.45
17 7000-7499																	.98	.95	.92	.88	.84	.48
18 7500-7999																		.98	.96	.93	.89	.52
19 8000-8499																			.98	.96	.94	.56
20 8500-8999																				.98	.96	.60
21 9000-9499																					.98	.64
22 9500-9999																						.68
23 ≥10000																						

PA = physical activity. Grey area denotes negative correlations