

Supplementary Material for “Assessment of the impact of different fecal storage protocols on the microbiota diversity and composition: a pilot study” (Moossavi et. al.)

Supplementary Tables & Figures

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Figure S1. Effect of storage condition on the fecal microbiota profile at species level for abundant species defined as having mean relative abundance of > 0.01% within each method.

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Table S1. Percent difference in the relative abundances of fecal genera (>1%) between immediate freezing at -80 °C (A) and storage in 95% ethanol for 48h at room temperature (B) in eight healthy volunteers.

OTU	Phylum	Family	Genus	1A-B	2A-B	3A-B	4A-B	5A-B	6A-B	7A-B	8A-B	Mean
OTU17728	Firmicutes	<i>Lachnospiraceae</i>	Unclass.	0.03	4.49	1.31	-0.03	0.00	-0.37	2.59	0.31	1.04
OTU7626	Proteobacteria	<i>Succinivibrionaceae</i>	<i>Succinivibrio</i>	1.27	0.00	0.01	6.39	0.01	-0.01	0.00	0.00	0.96
OTU27599	Proteobacteria	<i>Alcaligenaceae</i>	<i>Sutterella</i>	-0.34	0.00	-0.08	0.01	0.20	-0.04	0.08	0.52	0.04
OTU30617	Firmicutes	<i>Lachnospiraceae</i>	<i>Lachnospira</i>	1.74	0.27	0.00	-0.07	0.08	0.17	6.97	0.07	1.15
OTU37146	Firmicutes	<i>Ruminococcaceae</i>	<i>Faecalibacterium</i>	1.49	-0.38	1.26	-4.32	-0.29	-1.20	-1.40	-1.46	-0.79
OTU61854	Firmicutes	<i>Ruminococcaceae</i>	Unclass.	0.05	0.71	-0.37	0.55	1.73	0.72	0.29	0.46	0.52
OTU58911	Bacteroidetes	<i>Prevotellaceae</i>	<i>Prevotella</i>	0.05	0.00	-0.49	-0.13	0.00	0.00	0.00	0.49	-0.01
OTU47119	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	-0.23	0.01	0.31	0.00	0.00	1.56	0.00	0.00	0.21
OTU27602	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	0.68	0.08	0.49	0.02	0.22	1.58	-0.44	0.42	0.38
OTU61659	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	-1.86	-0.37	0.62	0.04	0.52	0.41	-0.32	0.20	-0.10
OTU55302	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	0.24	-0.16	0.06	-0.01	0.05	0.11	0.18	-0.09	0.05
OTU3931	Bacteroidetes	Unclass. <i>Bacteroidales</i>	Unclass.	0.07	0.00	0.13	-0.25	0.00	-0.01	-1.21	-0.24	-0.19
OTU63618	Bacteroidetes	<i>Prevotellaceae</i>	<i>Prevotella</i>	0.35	-0.85	-1.22	2.37	-0.90	-1.18	-1.99	4.95	0.19
OTU58361	Firmicutes	<i>Veillonellaceae</i>	<i>Dialister</i>	0.32	-2.86	1.96	-1.62	0.65	-1.45	0.00	0.11	-0.36
OTU63619	Firmicutes	<i>Lachnospiraceae</i>	<i>Roseburia</i>	1.52	0.23	-0.17	-0.08	0.11	0.34	0.17	-0.35	0.22
OTU72224	Firmicutes	<i>Lachnospiraceae</i>	Unclass.	0.08	0.78	-2.19	0.17	0.01	0.23	2.89	0.27	0.28

Table S2. Percent difference in the relative abundances of fecal genera (>1%) between immediate freezing at -80 °C (A) and storage on card stored for 48h at room temperature (C) in eight healthy volunteers.

OTU	Phylum	Family	Genus	1A-C	2A-C	3A-C	4A-C	5A-C	6A-C	7A-C	8A-C	Mean
OTU17728	Firmicutes	<i>Lachnospiraceae</i>	Unclass.	0.03	-3.15	2.22	0.61	0.00	0.86	0.94	0.31	0.23
OTU7626	Proteobacteria	<i>Succinivibrionaceae</i>	<i>Succinivibrio</i>	1.27	0.00	0.01	13.87	0.01	0.00	-0.01	0.00	1.89
OTU27599	Proteobacteria	<i>Alcaligenaceae</i>	<i>Sutterella</i>	1.52	-0.03	0.49	0.01	0.01	0.11	-0.04	0.48	0.32
OTU30617	Firmicutes	<i>Lachnospiraceae</i>	<i>Lachnospira</i>	2.41	0.21	0.00	0.10	0.01	0.21	1.83	0.07	0.60
OTU37146	Firmicutes	<i>Ruminococcaceae</i>	<i>Faecalibacterium</i>	0.81	-0.48	2.66	-4.48	-0.15	0.09	0.02	-1.59	-0.39
OTU61854	Firmicutes	<i>Ruminococcaceae</i>	Unclass.	0.05	-0.46	-0.78	-0.96	-0.32	-0.18	-0.27	-0.31	-0.41
OTU58911	Bacteroidetes	<i>Prevotellaceae</i>	<i>Prevotella</i>	0.05	0.00	-0.46	-0.94	0.00	0.00	-0.01	3.66	0.29
OTU47119	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	0.49	0.01	0.86	0.00	0.00	1.95	0.01	0.00	0.41
OTU27602	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	-0.35	0.12	0.75	1.15	-0.50	0.27	0.07	0.07	0.20
OTU61659	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	-1.89	-0.15	0.59	0.09	0.35	-0.04	-0.48	0.18	-0.17
OTU55302	Bacteroidetes	<i>Bacteroidaceae</i>	<i>Bacteroides</i>	0.81	-0.17	0.10	0.70	-0.01	0.33	0.02	0.04	0.23
OTU3931	Bacteroidetes	Unclass. <i>Bacteroidales</i>	Unclass.	0.07	0.00	0.13	2.80	0.00	0.00	0.18	2.08	0.66
OTU63618	Bacteroidetes	<i>Prevotellaceae</i>	<i>Prevotella</i>	0.35	2.88	-0.88	7.78	-0.10	0.74	-0.80	5.92	1.99
OTU58361	Firmicutes	<i>Veillonellaceae</i>	<i>Dialister</i>	0.25	0.42	-3.53	-2.39	-0.37	-0.70	0.00	0.11	-0.78
OTU63619	Firmicutes	<i>Lachnospiraceae</i>	<i>Roseburia</i>	-2.56	-0.97	-1.46	-1.03	-0.07	0.00	-0.04	-3.32	-1.18
OTU72224	Firmicutes	<i>Lachnospiraceae</i>	Unclass.	-0.05	-0.54	-2.72	-0.20	-0.03	-0.45	0.58	0.19	-0.40

Figure S1. Effect of storage condition on the fecal microbiota profile at species level for abundant species defined as having mean relative abundance of > 0.01% within each method.

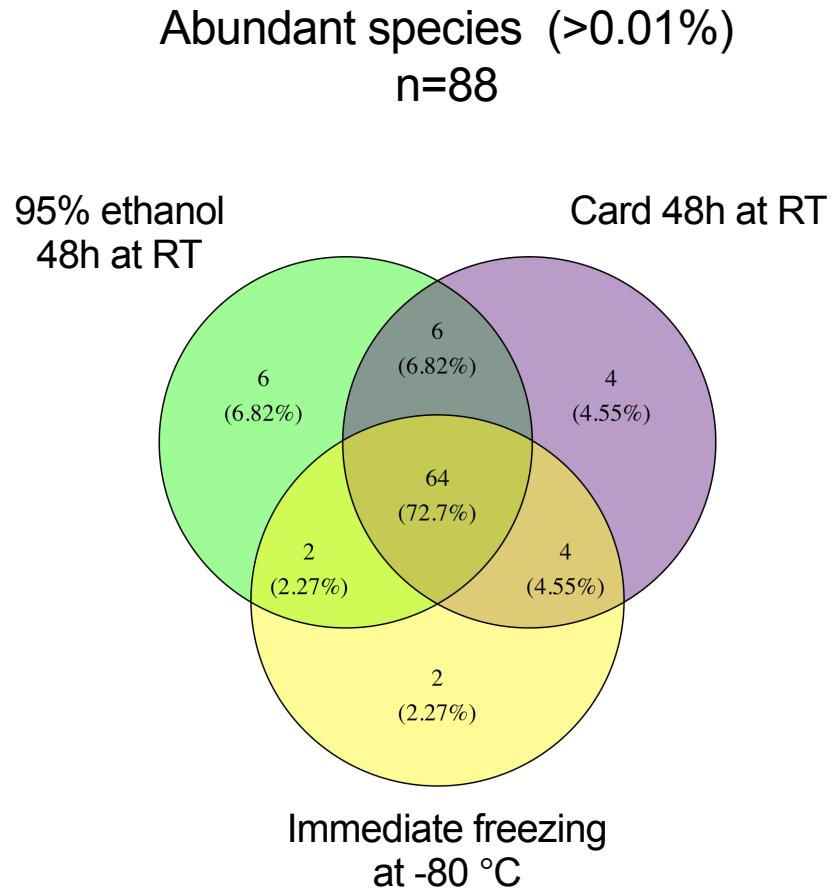
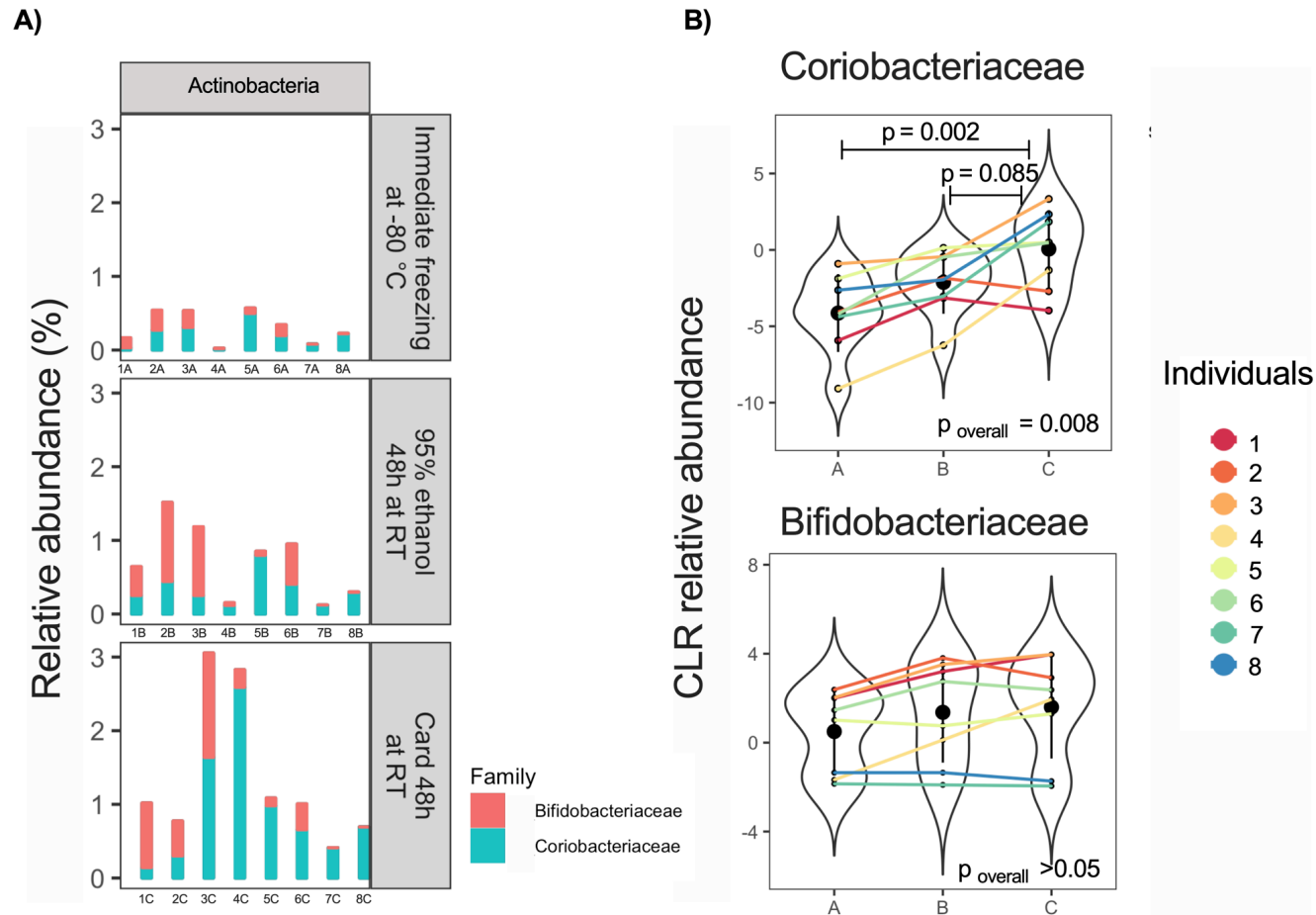


Figure S2. Comparison of relative abundances of members of Actinobacteria at family level. A) across individuals and B) across methods.



A: Immediate freezing at -80 °C ; **B:** 95% ethanol 48h at RT; **C:** Card 48h at RT

Figure S3. Comparison of relative abundances of gut microbiota profile at family level across individuals and methods.

