

**Table A. PERMANOVA for motile preservation experiment (OTU data).**

Abundance Data	500 µm – 2mm		100 - 500 µm	
	Pseudo-F	P	Pseudo-F	P
ARMS	1.58	0.086	2.77	0.025
Preservation	1.1	0.432	1.27	0.228

**Table B. PERMANOVA for motile preservation experiment, data merged by phylum.**

Abundance Data	500 µm – 2mm		100 - 500 µm	
	Pseudo-F	P	Pseudo-F	P
ARMS	4.78	0.01	5.18	0.021
Preservation	2.49	0.156	3.24	0.055

**Table C. ANOSIMs for motile preservation experiment (OTU data).**

Abundance Data	500 µm – 2mm		100 - 500 µm		Pairwise Tests	
	Global R	P	Global R	P		
ARMS	0.753	0.004	No Differences	1	0.004	No Differences
Preservation	0	0.868	N/A	0.034	0.446	N/A

**Table D. ANOSIMs for motile preservation experiment, data merged by phylum.**

Abundance Data	500 µm – 2mm		100 - 500 µm		Pairwise Tests	
	Global R	P	Global R	P		
ARMS	0.547	0.014	No Differences	0.51	0.021	No Differences
Preservation	0.021	0.396	N/A	0.224	0.161	N/A