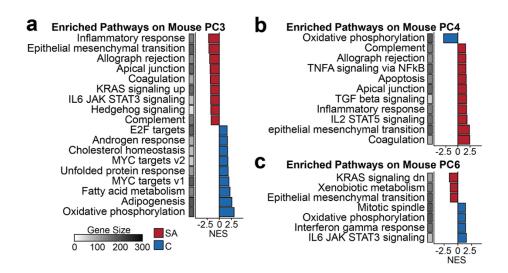
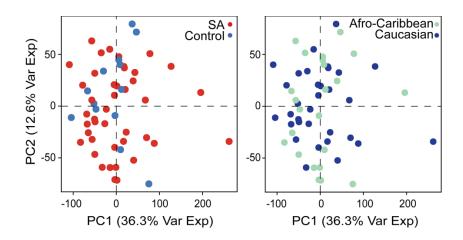
1	An integrative framework linking molecular signatures and locomotory phenotypes
2	in space-induced sarcopenia
3	
4	Authors and Affiliations: Brendan K. Ball ^{1+*} , Hammad F. Khan ^{1+*}
5	1. Weldon School of Biomedical Engineering, Purdue University, West Lafayette, IN
6	47907, USA
7	
8	*These authors contributed equally to this work
9	*Correspondence: bbkazu@purdue.edu, khan332@purdue.edu
10	
11	Keywords: Spaceflight, sarcopenia, transcriptomics, locomotion, translational modeling,
12	systems biology
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

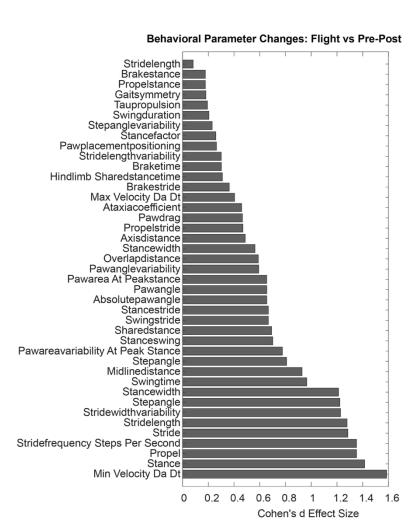
SUPPLEMENTARY INFORMATION



Supplementary Figure 1. Hallmark pathway enrichment analysis. (a) Significantly enriched pathways on mouse PC3, **(b)** PC4, and **(c)** PC6.



Supplementary Figure 2. Principal component analysis of the merged Afro-Caribbean and Caucasian dataset. Human patients are labeled by their disease condition and their association with a demographic cohort.



Supplementary Figure 3. Effect size of behaviors pre- and post-flight. All gait parameter effect sizes were calculated between pre- and post-flight time points.