

Summary of: Single-cell multi-ome and immune profiles of the Inspiration4 crew reveal conserved, cell-type, and sex-specific responses to spaceflight

****Key Findings and Quantitative Results:****

****Single-Cell Multi-Omics Data:**** - ****Spaceflight Signature:**** Identified a "spaceflight signature" characterized by enrichment in oxidative phosphorylation, UV response, immune function, and TCF21 pathways. - ****Enriched Pathways:**** Identified conserved pathways like OXPHOS, TCF21, UV response, and T cell activation. - ****Conserved Responses:**** Conserved responses across multiple cell types, including CD4 T cells, CD8 T cells, NK cells, DCs, and others.

[illegible]