

# A Second Space Age Spanning Omics, Platforms, and Medicine Across Orbits



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## The Space Omics and Medical Atlas (SOMA) and international astronaut biobank

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### Space Omics and Medical Atlas

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## SpaceX Inspiration4

Inspiration4 was the first human spaceflight to orbit Earth with only private citizens on board. The Crew Dragon capsule *Resilience* launched on 16 September 2021 and landed on 18 September 2021.

For the mission we have collected and analyzed a comprehensive set of longitudinal multiomics data from the astronauts that span pre-, in-, and post-flight periods. These results and datasets are made available as a resource for all related biomedical and spaceflight research.

2911

Collections

1194

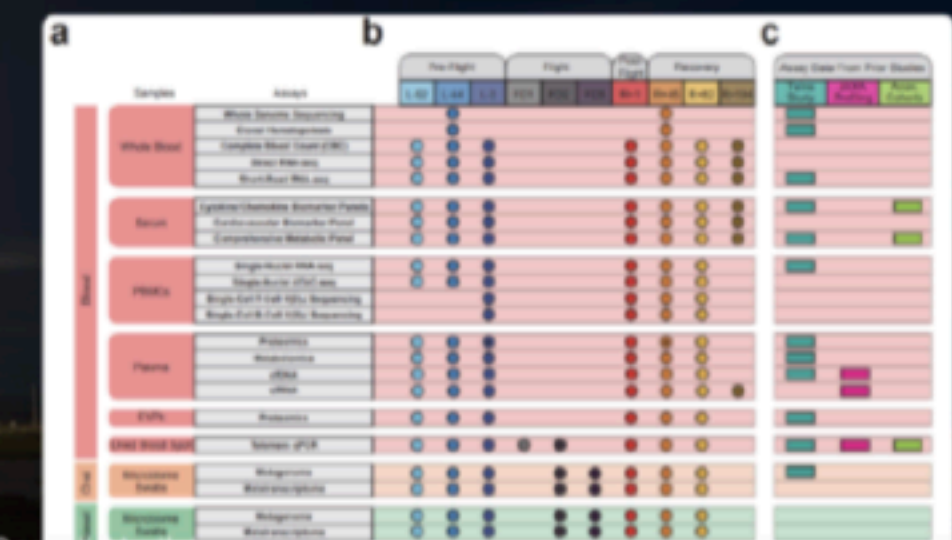
Processed samples

22

Assays

10

Timepoints

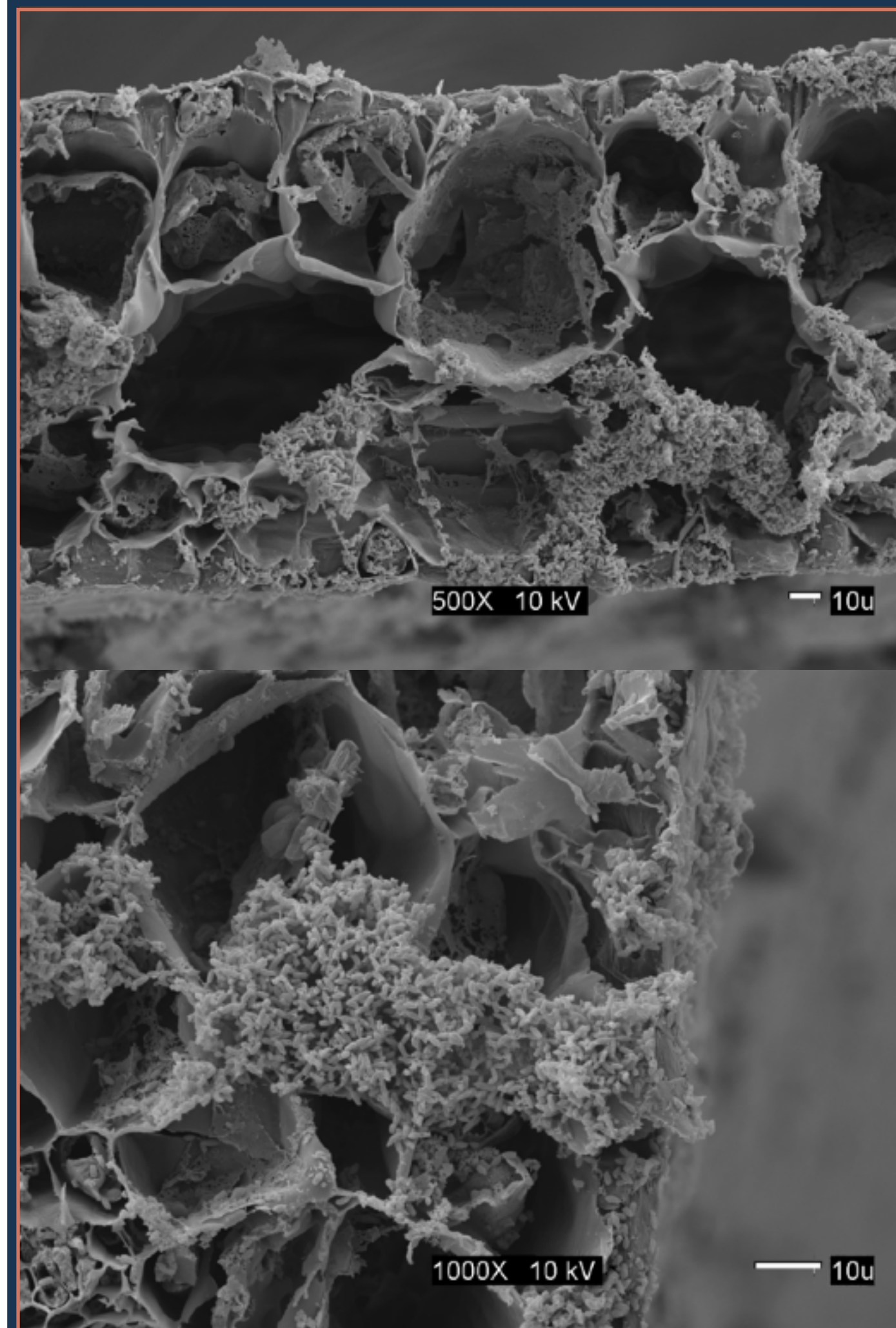


<https://soma.weill.cornell.edu>

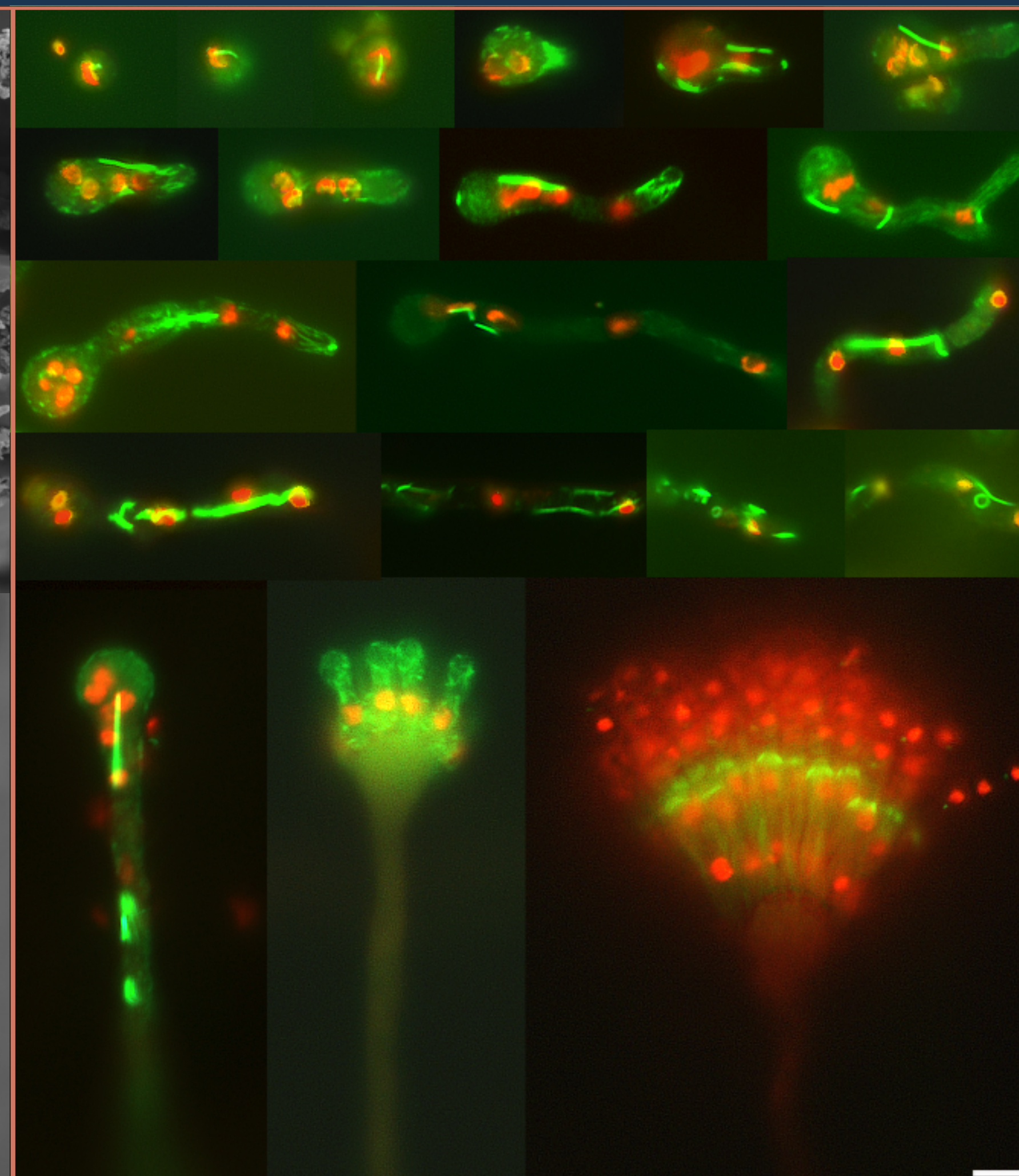


# Microbes are everywhere, from plant-microbe exchanges, to infections, to ...

## Seagrass Endophytes



# Fungal Genetics



# Microbiome

