Questions we ask to As we examine the impacts of spaceflight on animal biology and physiology

* Do the effects of spaceflight level off over time, get worse, or get better?
* Are the effects of spaceflight exposure permanent or do they decrease and/or vanish with time upon return?
* Can we prevent adverse effects before they appear, or at least lessen their impact?
* What conditions are required for animals to live in space for years, come back to Earth, and remain healthy?

the impacts of spaceflight on the cell biology and physiology, we ask the following:

* What are the underlying genetic and molecular mechanisms of the cells that are influenced by gravitational changes and the space environment?
* Does the space flight environment affect or influence cell and molecular functions causing tissue/organ dysfunction or disease states?
* Does the space environment affect cellular and molecular functions in a manner that impact tissue morphogenesis or development?