

IAF SPACE EXPLORATION SYMPOSIUM (A3)
Interactive Presentations - IAF SPACE EXPLORATION SYMPOSIUM (IP)

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ROSCOSMOE

Abstract

Roscosmoe aims to develop a series of experiments and habitat design to examine the behaviour of the sea anemone *Symsagia ifera roscoensis* in various gravitational environments including orbital space context. By combining science, arts, humanities and design, the project Roscosmoe presents a societally integrated approach to space exploration (Space 4.0) that has the capacity to challenge existing attitudes towards space habitation, planetary protection and extraterrestrial bioeconomy. Specifically it connects the fields of marine biology, design, outer space conditions (microgravity), intermedia art, eco-feminism, cosmism and the xenochthonic paradigm (becoming alien). The plant-animal has been the subject of study in fields such as regeneration, neurogenesis, circadian rhythms as well as an inspiration for both natural scientists and humanities scholars who investigated biological and cultural sympoiesis. Roscosmoe methodology is based on frugal science, open source design and put in motion by a multidisciplinary team composed by scientists, artists, makers and humanities researchers.