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STUDY ON ENVIRONMENTAL REGULATION TECHNOLOGY OF LONG - PERIOD BIOLOGICAL CULTURE

Abstract

Long-term (more than 6 months) biological experiment has indirect experience in China. The experimental model with long-term unattended, short-term cared, making the technology of biological control of environmental conditions to be a key technology of the success of space experiments. The technology of cultivation and control of environmental conditions involves the temperature, humidity, light, gas and mineral nutrition regulation of different biological samples (e.g. plant seed, seedling or plant) in different growth periods, and the adaptability of environmental conditions in mixed culture of various biological samples. As well as the removal of harmful gases in the culture process, the antipollution of microbiology in culture environment and many other aspects, through a large number of ground simulation experiments combined with the experience of space biological experiment, and targeted technical research to determine the best culture conditions parameters.