

FIRST PERUVIAN MISSION TO THE MOON NEEDS YOUR SUPPORT



www.killalab.org.pe

The Team KillaLab is a SCAP research group that started to compete in the Lab2Moon contest organized by Team Indus Foundation, Google Lunar XPRIZE finalist, which will carry a spaceship to the Moon this year on December 28th. 8 teams were selected in order to carry an experiment on board the spaceship from 3400 proposals submitted worldwide. Team KillaLab is one of the winners and is the only Latin American team.

To ensure the establishment of human beings on the Moon, we will need to provide from the Earth to the eventual Moon Base the necessary resources to support the crews, but this situation could change with the implementation of the In Situ Resources Utilization System (ISRU). In this context, resources such as food, biomaterials and medicines can only be efficiently produced by biological systems under controlled conditions, especially by cyanobacteria.

The Peruvian Team KillaLab will send an experiment to evaluate the survival of biofilms in lunar conditions, and will carry out the testing of the filtration of space radiation. This experiment will help us understand the passage of ionizing and non-ionizing radiation through different biological materials, since this is an important knowledge in the prediction and mitigation of its effects on microorganisms with biotechnological applications to support human life.

Biofilms are complex and consist mainly of cyanobacteria, obtained by isolation, reactivation and cultivation of three sites in Peru with different and high UV radiation rates. They represent suitable candidates for testing in their ability to resist radiation due to their inherent biosynthesis capacity of protection compounds and microbial ecological relationships that allow them to survive more than if they were a single free species. In addition, they have been observed to survive low orbit conditions on the International Space Station.

The Team KillaLab needs to raise \$750,000 by April 30th to make this project happen. If someone wishes to support please contact killalab@gmail.com or (51) 922171882 and (51) 934900707.

Crowdfunding for Team KillaLab: [https://www.indiegogo.com/projects/killalab-peruvian-lab-to-moon-space-technology#/
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