



UNIVERSIDAD  
**CATÓLICA**  
BOLIVIANA



# **EMPOWERING WOMEN IN THE SPACE RESEARCH LANDSCAPE: INSIGHTS FROM CAPACITY BUILDING IN UNIVERSIDAD CATÓLICA BOLIVIANA**

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September 29th, 2023  
Baku-Azerbaijan

# Bolivia

Location Map of Bolivia in World



Tiwanaku



Morenada



Uyuni

In 2015, the award went to Universidad Católica Boliviana. The objective of their experiment is to examine and evaluate the property of an alloy of Nickel and Titanium "Nitinol" under the microgravity environment

In 2020, the award went to Universidad Católica Boliviana "San Pablo" team. The objective is to determine the 3D printing feasibility, measure intra-structure remaining liquid resin after light exposure, and compare manufacturing time, amount of used material while processing in 2 different approaches.

## DropTES

Round 2 (2015)  
Round 7 (2020)



## HyperGES

Round 2 (2022)



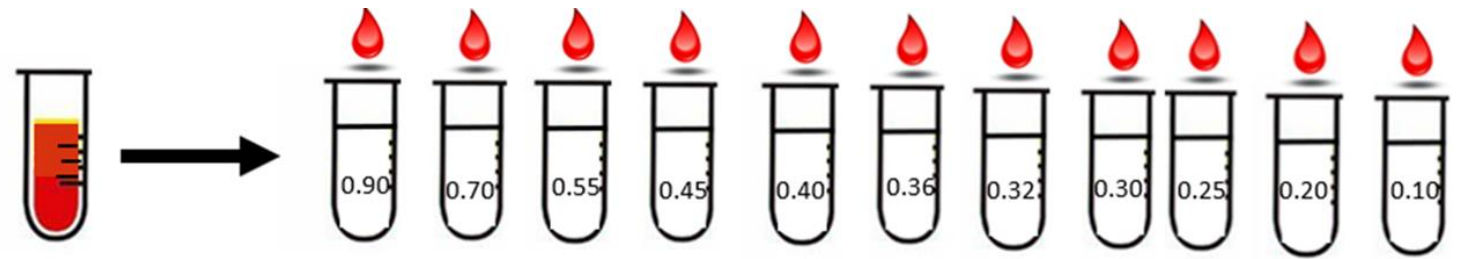
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The 2nd round of HyperGES opportunity opened in May 2022 and closed in November 2022. Teams from Universidad Católica Boliviana "San Pablo" of Bolivia and Macau University of Science and Technology of Macao, China, were selected as the awardees in the 2nd round.

What is our project about?

Understanding space anemia: effect of hyper gravity in erythrocytic osmotic fragility.





3625 m.a.s.l.



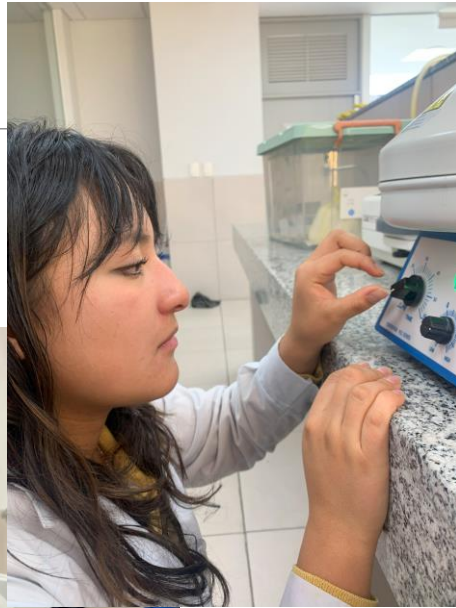
-28 m.u.s.l



At launching astronauts are exposed up to 7 G



# Capacity building at UCB



## **Individual**

### **For students**

- \*Improvement of lab performance
- \*Curiosity
- \*Responsability
- \*Writing and oral presentations
- \*Team work
- \*English practice

### **For tutors**

- \*Proposal writing
- \*Mentoring
- \*Networking

# Capacity building at UCB

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## Organizational

### **Subject/Carrer**

- \*Auditing students in Biology
- \*More people interested in choosing the carrer of Biochemistry and Bioprocessing Engineering

### **UCB**

- \*Improvement of research proccess: Special permissions: Lectures, use of labs, etc.
- \*Investment in research



# Capacity building at UCB



## Societal

Appearances in media and sharing our story to society contribute to scientific sovereignty in Bolivia

# Thank you!

You can find me at:

[gchavez@ucb.edu.bo](mailto:gchavez@ucb.edu.bo)

Georgina Chávez

<https://www.ucb.edu.bo/>



Illimani