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University of
Zurich^{UZH}

UZH Space Hub

UZH Space Hub Newsletter



Dear UZH Space Hub Community

In this newsletter you will find news, upcoming events and space-related opportunities in the Swiss landscape and beyond.

Have a nice read,

UZH Space Hub Team

News

Switzerland's contribution to Space

From 2023 to 2025 Switzerland will contribute 600 million CHF to the European Space Agency (ESA), as one of the 22 ESA member states. In total, all states negotiated to invest an amount of 16.9 billion Euros at the Ministerial



Council of the ESA, 22-23 November 2022 in Paris.

Based on the contributions to programs pledged at the ministerial meetings, Switzerland receives contracts for scientific projects and for the industry. Switzerland committed to programs ranging from Earth observation and new telecommunications technologies to exploration and launchers.

[Read more](#)

Two payloads of UZH Space Hub launched with SubOrbital Express-3

On the morning of Wednesday, November 23, one of the most anticipated rocket launches of the year took place at ESRANGE Space Center, above the Polar Circle in Northern Sweden, at 9:23 AM local time: SubOrbital Express 3 was launched to an altitude of 260 kilometers and six minutes of microgravity. Among the twelve payloads two were from UZH Space Hub members. If you are **interested in launching a payload in October 2023 or June 2025, please contact us**. Image credits: Copyright SSC, Philip Ohlsson.



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IPSPACE 2020 in Beijing

The UZH Space Hub was present at the International Symposium on the Peaceful Use of space technology - Health (IPSPACE 2022) from 18 – 22 November in Beijing, hosted by the Chinese Society of Astronautics, China High-Tech Industrialization Association, the International Academy of Astronautics, International Astronautical Federation, International Space University, George H.W. Bush Foundation for U.S.-China Relations and many more. Oliver Ullrich and Cora Thiel were invited to present the UZH-invented production of human tissue in space, and shortly introduced the UZH Space Hub to the high-ranking participants from China. The presentations of 1 plenary session and 12 tracks were recorded and can be viewed in the link below. The presentations of this symposium are of particular interest to those who wish to learn about the current topics, technology and achievements of the Chinese space program.

[Watch](#)

HUMANE visited the UZH Space Hub

HUMANE, the Heads of University Management & Administration Network in Europe, visited the UZH Space Hub and met Christian Pfeiffer and Oliver Ullrich at the "Chuchichäschtli" at the Innovation Park Zurich in Dübendorf. Christian explained the challenge and achievements of autonomous flying and Oliver introduced the UZH Space Hub. The visit took place in connection with a study visit to the UZH under the topic "Developments in research and innovation management and support: strategy and operations challenges", on November 9-11, 2022.

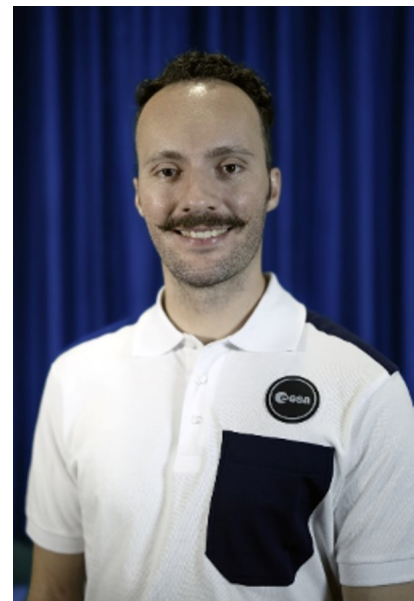
New video online on our YouTube channel: Organoids in Microgravity

Asst. Prof. Anne Beghin and Asst. Prof. Gianluca Grenzi from the Mechanobiology Institute, National University of Singapore brought thousands of organoids to weightlessness on the 6th Swiss Parabolic Flight campaign. With this experiment, they are testing a new system to massively produce human organoids (mini 'avatars' of human organs) in space. They will study how organoid behave upon exposure to microgravity, deciphering cellular mechanisms of adaptation to identify future strategies for long term space travel. Learn more about this experiment on [our YouTube channel](#).

[Watch](#)

New Swiss Astronaut

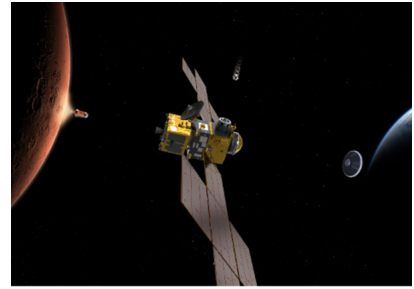
Marco Sieber is one of the five upcoming European Space Agency (ESA) career astronauts for the class of 2022. He was competing against over 22.500 applicants but could convince the ESA with his interesting and impressive resume. Sieber is a specialized doctor in emergency medicine who worked for several clinics in the past. With his earlier Army paratrooper training and his practice as an emergency physician in helicopter rescue in 2020, he is well qualified for the space. In his free time, Marco Sieber holds a private pilot license and is an enthusiastic skydiver, scuba diver, and ski touring runner. The ESA announced that he could participate in a flight to the ISS or even to the moon, as the ESA is currently discussing whether they plan to return to manned flights to the moon soon. We wish him good luck for his journey and the upcoming first year of training!



Swiss Space Days 2022 “The New Space” Recap

As part of the Swiss space days symposium, many space enthusiastic people came together. The leading Topic was the exploration of Mars. Swiss scientists and companies of different fields already work on exploring and entering the Mars habitat. Swiss companies like MAXON, who are producing the engines for Mars robots or the Robotic System Lab with their innovative Space Robots, were participating and presenting. Dr. Gerhard Kminek from the European Space Agency explained the challenges of the Mars Sample Return Mission.

[Read more](#)



Events

Funding for Swiss Space Research, Innovation and Entrepreneurship

Do you have an idea that could impact space technology or you would like to exploit some space related innovations on Earth? Would you like to get an overview of funding and supporting opportunities for space research and business? Then sign up and join this event on December 6, 2022. The event is organised by the Innovation Office of the University of Bern, in collaboration with Euresearch and the ESA Business Incubator Center Switzerland.

[Read more](#)



Opportunities

ESA Academy’s Space Systems Engineering Training Course 2023

As a space system engineer, you are responsible for many areas. The support of projects from conception to delivery is one of the main key tasks. You will experience working with other disciplines to define user needs, define requirements, and shape the final design before supporting the project through the assembly, integration, and testing phase into operation. Become part of a four-day intensive course at the ESA training center in Belgium and benefit from exciting lectures, group work and space-experienced personalities. ESA will support you with accommodation and meals on site. If you are interested and studying engineering or science related studies, apply by December 5, 2022.



[Read more](#)

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