SPACE PHARMA

**SpacePharma: Microgravity - Mega Results*

Revolutionizing Research & Development in Space Transforming Industries: From Pharma to Biotechnology

SpacePharma stands at the forefront of microgravity research, pioneering unprecedented advancements across diverse sectors including pharmaceuticals, biotechnology, food & feed, chemistry, cosmetics, and agriculture. Our expertise in developing, manufacturing, reformulating, and operating miniature as well as scaled microfluidic systems and remotely controlled laboratories in space places us at the forefront of space-bound research and manufacturing.

The Need for Microgravity: Unveiling New Horizons

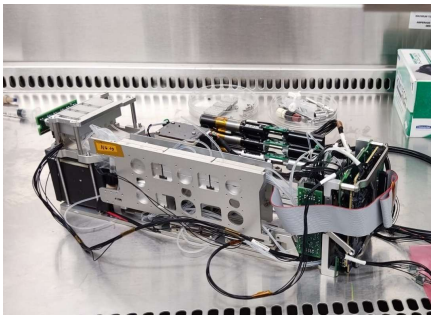
1. **Biology & Health:** Microgravity unlocks a deeper understanding of biological functions, 3D-structures, and novel formulations, offering insights unattainable under Earth's gravitational constraints.
2. **Manufacturing and Formulation Science:** Microgravity research catalyzes breakthroughs in formulation sciences by altering key processes like crystal growth and fluid mixing. This enables much higher and more homogeneous API concentration for subcutaneous applications on Earth. Beyond life science, advanced material sciences innovations and production can be carried out with SpacePharma' space laboratories.

Rationale: Why Space Matters

Our microgravity labs provide pristine conditions for experiments - a stark contrast to the limitations of Earth-based laboratories. With recent advancements in launch technology and remote control from Earth using our proprietary frequencies as well as our microfluidics-based hardware, accessing space has become not just feasible but economically viable, offering a cost-effective and efficient pathway to innovation and manufacturing.

Applications: SpacePharma's Pioneering Solutions for Tomorrow

- Unraveling new monoclonal antibody (mAb) formulations like Merck's Keytruda.
- Enhancing monoclonal antibody concentration with no increase in viscosity.
- Revolutionizing mAb & API manufacturing and reformulation processes.
- Utilizing 3D-cultures and organoids for drug discovery and testing.
- Contributing to significant advancements in pharmaceuticals and beyond.



SpacePharma - SPAd module.

About Us: A Global Trailblazer

Founded in 2012 and headquartered in Switzerland, SpacePharma is a global start-up with R&D operations in Israel and Switzerland, and a science lab in the USA. Our team, a melting pot of expertise in life science, engineering, and space technology, has conducted over 50 experiments for 35 clients during eleven launches into space. Our technologies and hardware are protected by eight granted patents and many more pending patent applications.

Our Reputation: Leading with Innovation

Recognized as a top innovator by Fast Company Magazine in 2018, we specialize in designing advanced miniaturized Lab-on-a-Chip systems. We are on the verge of launching our next-generation scaled MOTI systems, which will enable us to reformulate kilogram quantities of mAbs and API. Our technology supports diverse research fields in life sciences and chemistry, making us a valuable partner for industries spanning pharmaceuticals to biotechnology.

Proven Success: Breaking Boundaries in Space Research

- Executing groundbreaking experiments in seven space missions.
- First to investigate antibiotic resistance and drug crystallization in space.
- Leading the way in protein and API crystallization and malignant cell behavior studies under microgravity.
- Custom design microfluidic chips for your needs and applications.
- Leading several ESA-BSGN life sciences initiatives for innovative space missions

Partnerships & Collaborations: Joining Forces with the Best

Our collaborations with leading space agencies (NASA, ESA, ISA, ISS), universities (NIH, University of Florida, University of Glasgow, UPenn), research centers (Fraunhofer Gesellschaft, Moffit Cancer Center), and industry (Teva, OHB) underline our commitment to excellence and innovation.

Vision: Setting New Standards in Microgravity Research

Our goal is to dominate the market in microgravity research, making it accessible, affordable, and reliable. We aim to revolutionize health, food, and life quality on Earth and beyond.

Ahead of the Curve: Leading the Space Race

Despite emerging competition, SpacePharma maintains a significant lead, thanks to our advanced technology, strategic investments, and our experienced Space Pharma team.

The Future: Shaping Tomorrow's Innovations

We envision a future of frequent commercial deployments of advanced labs in space, driving the creation of novel drugs and products far beyond Earth's current capabilities.

Join Us in Shaping a New Era of Discovery

With SpacePharma, the possibilities are as limitless as the universe itself. Embrace this journey with us and be a part of a groundbreaking venture that redefines research & development on a cosmic scale.

Learn More:

www.spacepharma.health

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