



We Bring Extreme Efficiency to Extreme Biology

Microgravity and other extreme environments are unexplored frontiers for biotechnology, regenerative medicine, and materials science. The ability to systematically test and optimize biological processes under these conditions has the potential to redefine industries—from biomanufacturing to drug design, on Earth and in space.

By mastering variables like shear forces, biomechanical conditions, and environmental stressors, our platform navigates the *latent space of biological adaptation*—allowing for rapid iteration, predictive modeling, and scalable experimental validation.

At Litegrav, we developed a high-throughput, high content (HT/HC) extreme biology simulator suitable both for On-the-ground automatized robotic lab (“cloud lab”) and single facility uses. Additionally, we have a companion software suite for *in-silico* optimization and ML-based protocol predictor.

Since 2021, Litegrav has established an ecosystem network with 20+ members in 8 countries and already has 5 leads in preclinical development, ranging from brain disease indications to drug delivery methods.

We are excited to partner with stakeholders from academia, biotech and pharma for platform usage and co-development of assets, particularly in:

- Models of Aging
- Cell Stage and Morphology tuning (including tumor and stem cells)
- Microorganism re-purposing and strain engineering
- Biological self-assembly
- "Slow" grown crystals





GET IN TOUCH



+37256397332



info@litegrav.ai



www.litegrav.ai



Kentmanni 6, Tallinn, Estonia