Juvion, an EPFL spin-off, is developing a next-generation pipeline of therapeutics designed to preserve **Brain-to-Muscle communication**, with the goal of maintaining mobility and preventing age-related conditions such as **sarcopenia and motor neuropathy**. Leveraging its proprietary **discovery platform and pipeline of compounds** from plant derived natural products, Juvion operates under a B2B business model.

Challenge

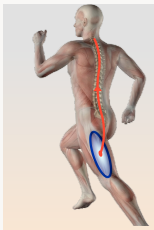
1.6 Billion adults over 60

500M people suffers from loss of mobility

$100B+ Global costs for falls, Sarcopenia and motor neuropathy

Root Cause

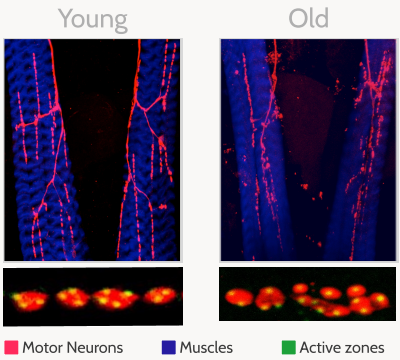
Connectivity and communication breakdown between neurons and muscles.



Mobility is controlled by MOTOR NEURONS not only muscles

Motor Neuron

Skeletal Muscle



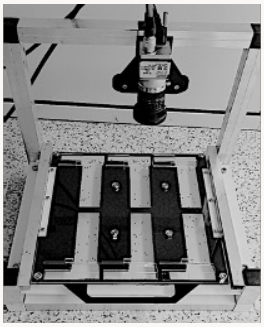
Banerjee et al., 2021 (Nature Comm.), 2024 (Cell Reports)

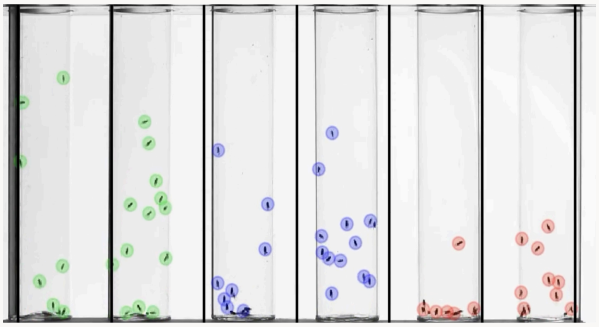
Solution (USP)

1. Discovery platform

Machine vision + Robotics + Neuroscience

Transforming aging research through real time tracking in Drosophilia and mice.





2. Pipeline of Compounds

Targeting neuromuscular health

Juvion-001 and Benefits — PATENT FILED

- Mobility went up by 40%
- Falls & loss of muscle strength went down
- Delay in sarcopenia and neuropathy progression

Stage 1 — 2024-2025

- Proprietary Platform (revenue)
- Pipeline (4 compounds)
- Patent (European)
- Preclinical validation (Drosophila and Mice)

Stage 2 — 2026

- Human Validation (Juv 001)
- Platform revenue growth
- Pipeline (10 compounds)
- B2B market entry for licensing

Stage 3 — 2027–2029

- Revenue growth
- Global market entry (Juvion 001)
- Clinical trial for Sarcopenia

Team



Dr. Soumya (Som) Banerjee
CEO / Co-founder



Prof. Brian McCabe
Chairman of the Scientific advisory Board/ Co founder

Dr. Priyanka Dutta Passecker
Chief of Platform commercialization

Laly Robyr
Engineer

Victor Lobato Rios
FlyGym Technology specialist

Manoj Thacker (BD Advisor)

Nicolas Krauer (Legal Advisor)

Sebastian Guilmot (Platform manager)

Partners

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info@juvionls.com | +41 77 485 82 01 juvionls.com EPFL Innovation Park, Bâtiment C, 1015 Lausanne, Switzerland