



JOINT REGENERATION THROUGH LIGHT-GUIDED BIOPRINTING



A PRESSING MEDICAL CHALLENGE

Osteoarthritis and traumatic knee injuries often lead to pain, discomfort, disability and eventually joint replacements.



OUR BREAKTHROUGH SOLUTION

LUMINATE offers a one-stage, personalized bioprinting approach to regenerate damaged cartilage and prevent osteoarthritis.



3d bioprinting
Developing EndoFLight:
A First-of-Its-Kind In Situ
Bioprinting Tool



Bio resin
Tailored light active BioResin for
both cartilage and bone
regeneration.



**Single surgical
intervention**
Establishing a One-Stage,
Personalized Regenerative Therapy



Market adoption
Regulatory compliance, patient
experience improvement,
integration in surgical workflows.



Aims

- ✓ Prevents post-traumatic osteoarthritis
- ✓ Reduces need for joint replacement
- ✓ Cost-effective and scalable
- ✓ Validated in large animal models



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