

Company Name:

Umi-Hotaru

Bio-inspired OLED

<https://reaktor.berlin/start-up-umi-hotaru/>



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Company Profile

The molecules that emit light in living organisms are closely related to those used in OLED. But they are better – more stable and energy-efficient. Umi-Hotaru’s materials discovery engine, we call it “Mimotype”, provides an integrated workflow for decoding molecules from light producing organisms using, step 1, DNA sequencing. Once we identify and validate potential candidates in step 2, we will take those DNA sequences and, step 3, use bioreactors to produce materials in the kg and even ton range in a process called bio-manufacturing.

Business Field/Core Technology/Strength

- Advanced Biomaterials
- Biophotonics
- Machine Learning / AI / High-Throughput Virtual Screening
- Genomics / DNA sequencing
- Biotechnology
- Computational chemistry
- Accelerated Breakthrough R&D
- Design
- Bio-inspired Technology
- Bio-electronics
- Nanotechnology