

**Lumendo received a grant from by Gebert Rüt Stiftung Foundation to develop a revolutionary hand sanitizer.**

- Hands are key vehicle to spread infections
- Lumendo exploit years of experience working in developing materials with antimicrobial properties to design the future generation of hand sanitizer

Effective hand sanitization is one of the best methods of reducing the spread of pathogens from surface-to-surface or from hand-to-face. However, gloves can protect our hands, but most of them do not have any anti-microbial properties and do not stop the transmission. Existing hand sanitizers can disinfect our hands for one or two minutes, that is, until the alcohol evaporates. Lasting antimicrobial agents exist, but only for metal and glass surfaces. Having said that, Lumendo decided to grab the challenge and design a novel gel-based approach consisting of a polymeric and an antimicrobial agent that form a permanent antibacterial and antiviral layer to protect the skin. For this project, Lumendo received a grant to develop Disigel by the Gebert Rüt Foundation and its project partners: EMPA, Groups «Cells at Surfaces» and «Bacteria at Surfaces».

**ABOUT DISIGEL**

The innovative solution enables users to touch infected surfaces without taking the risk of infecting themselves or spreading infections in their environment. This technology builds on the experience developed during the past years while creating a portfolio of soft tissue replacing materials with antimicrobial properties. It is easy to imagine how this technology could be crucial to reduce or avoid future pandemic, or at least, to fight them. In addition, this solution could be a weapon to reduce the spread of antibiotic-resistant bacteria, one of the major health challenges of the next decades.

If you want to know more about this project, you can find additional information [here](#).

**About Lumendo SA:** Incorporated in Switzerland in April 2018 as Spin-off of the two Swiss Federal Institutes of Technology – École Polytechnique Fédéral de Lausanne (EPFL) and Eidgenössische Technische Hochschule Zürich (ETH) – Lumendo devotes itself to the development of novel photoactive materials for medical applications. The goal of Lumendo is to develop easy to apply, reliable and innovative products to treat unsolved medical challenges in various field including dentistry, orthopaedics, and neurovascular surgery.

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