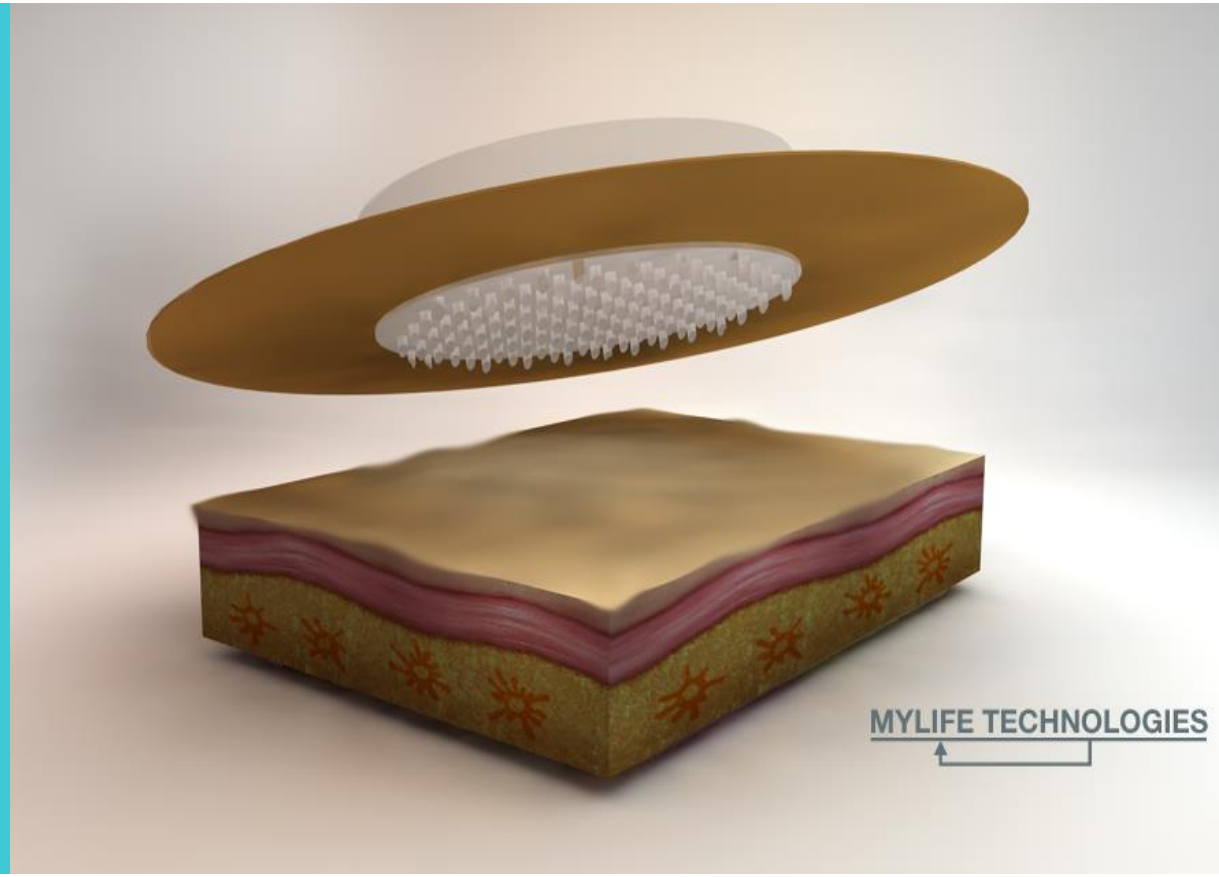
MYLIFE TECHNOLOGIES

nanoporous MicroNeedle Arrays (npMNA)

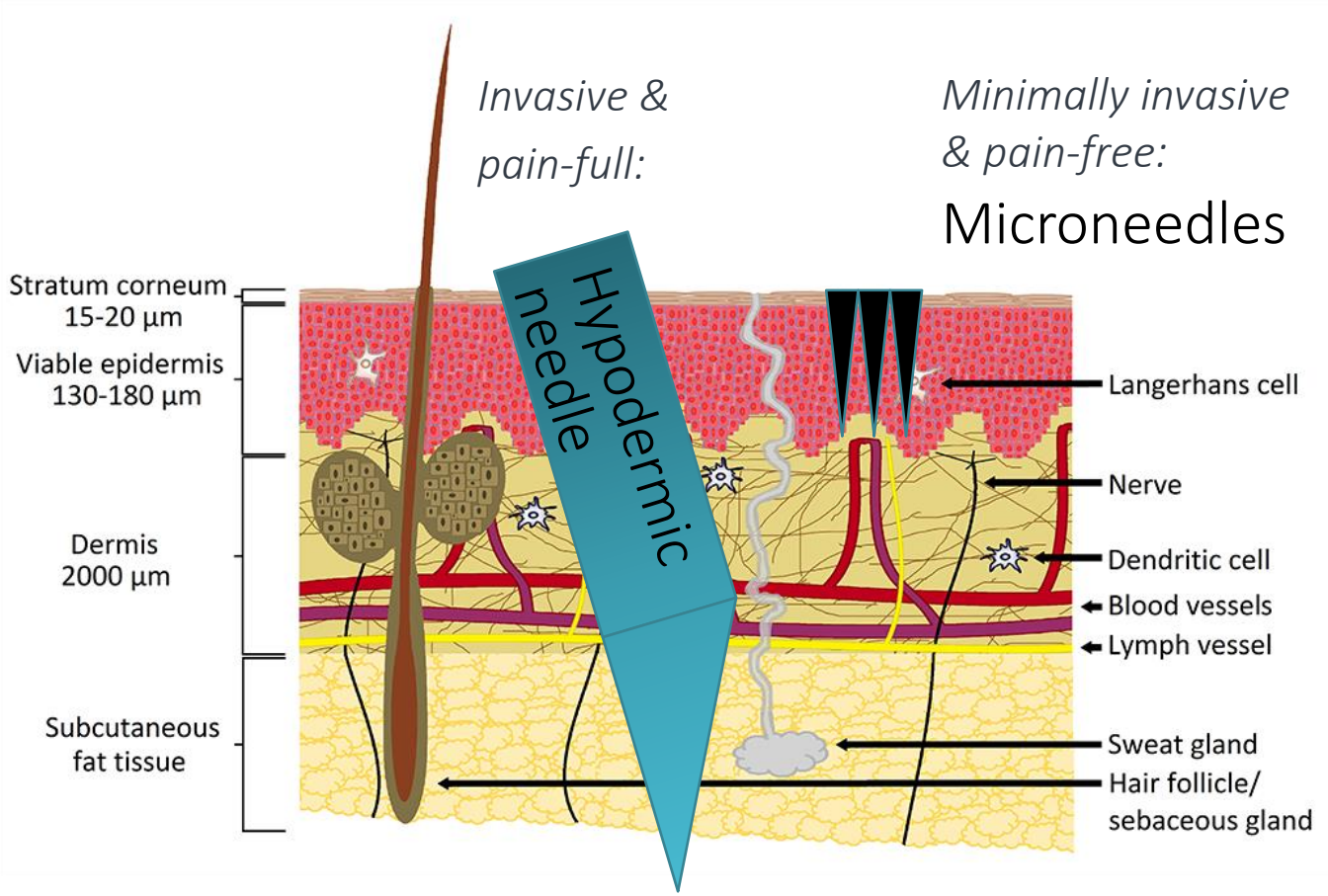
MicroNeedle technology for dermal drug delivery

Taiwanese Biotech Industry Organization



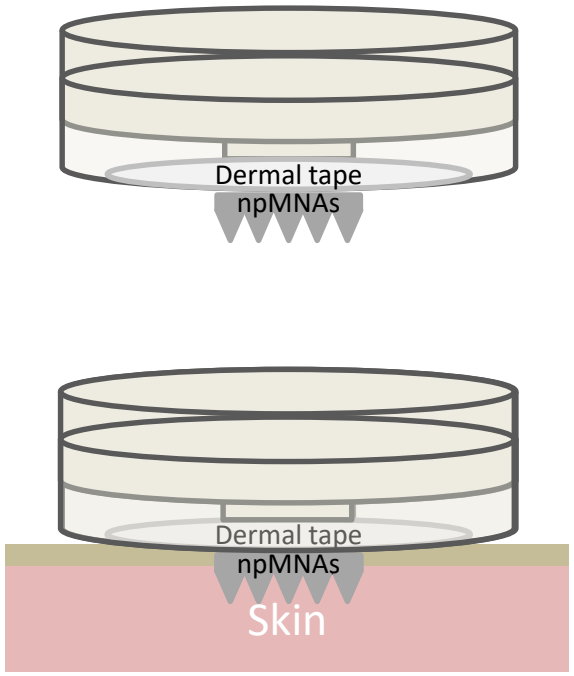
Leiden, November 8, 2017

Needle & syringe injection vs. microneedles



Adapted from: K. van der Maaden et al., J. Control. Release, 2012

Drug delivery solution

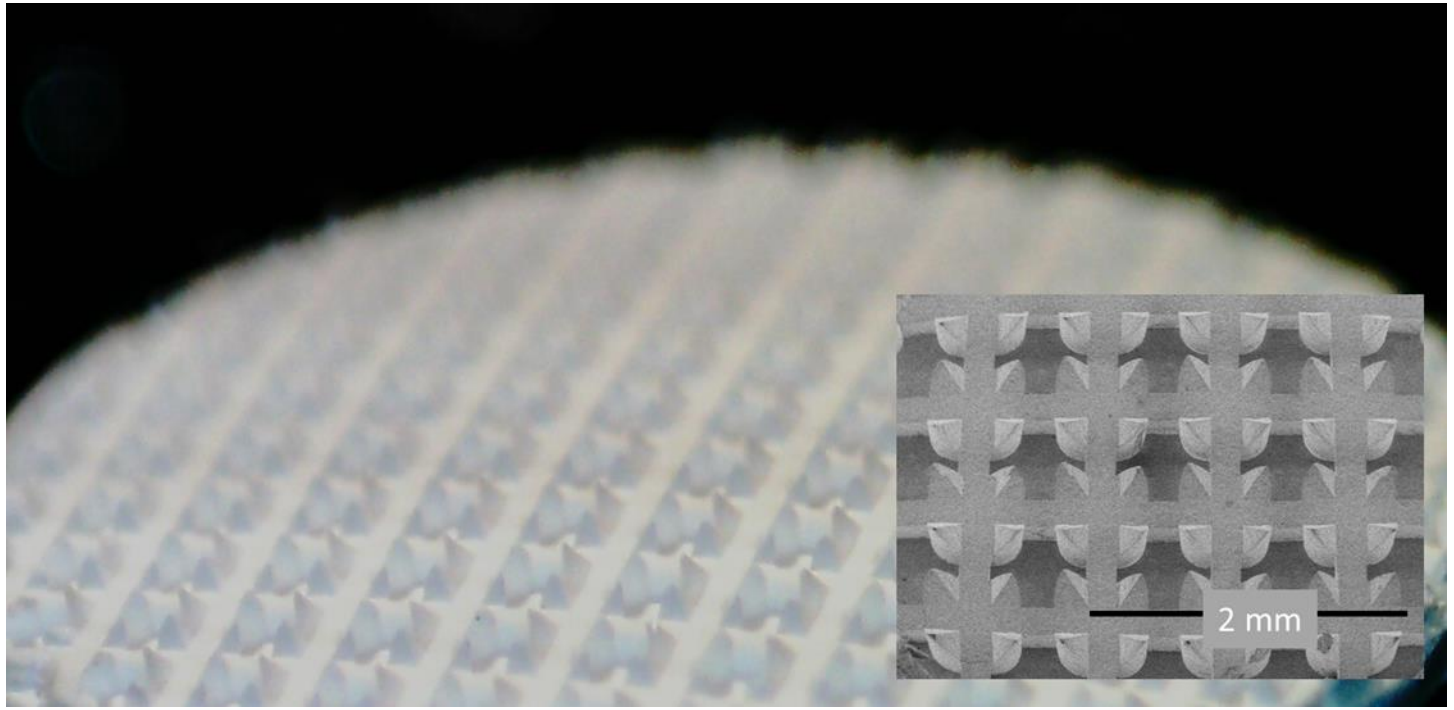


The npMNA-patch is applied onto the skin by using an applicator.

The drug compound diffuses into the skin.

The release profile of the drug compound can be tuned by adding excipients to the formulation.

Core of the solution: nanoporous microneedle arrays

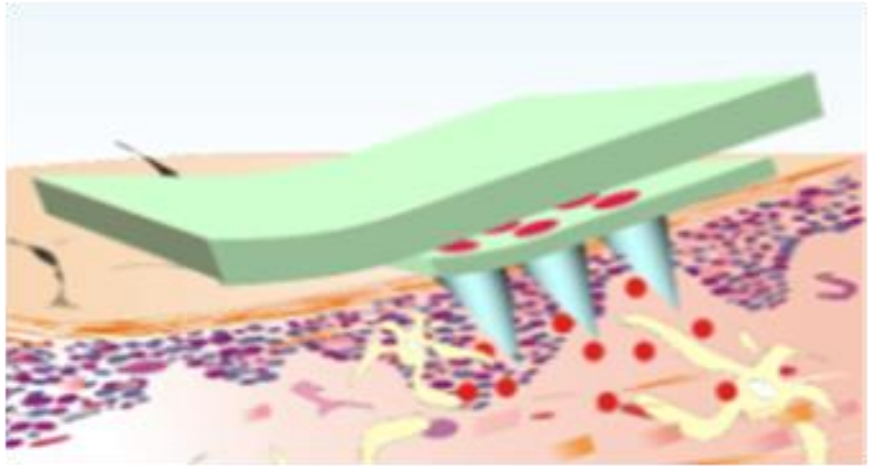


We hold a unique position:

- **Nanoporous material**: nanopores allow for storage of pharmaceuticals
- Microneedles are made of a **bio-inert ceramic** (Al_2O_3) and allow to overcome the skin's main barrier, i.e. the stratum corneum
- npMNA **design freedom**: microneedle density, porosity, length / shape, surface
- Technology **patented** in USA, Europe, Japan, and China

COMPANY FOCUS AREAS

- Specific **small molecules**: transdermal delivery
- **Peptides**: transdermal delivery
- **Prophylactic & therapeutic vaccines**: intradermal delivery, targeting dendritic cells



Contact us for more details!

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