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Self-setting bioceramic microscopic protrusions for transdermal drug delivery Bing Cai, Wei Xia*, Susanne Bredenberg, Håkan Engqvist

Three-dimensional (3-D) image of SCMN

Microtomography (microCT) was used to examine the sparsely arranged CaP SCMNs; the obtained projections were reconstructed into a 3-D image of the needles. A more detailed illustration of the needles can be found in the attached video 1.

In vitro insertion of SCMN in porcine skin

The CaP SCMNs was inserted manually into porcine skin, which was obtained from the back of porcine. The resulting porcine skin with SCMN after insertion was shown observed by microCT. A 3-D reconstruction of the microCT projection of *in vitro* insertion of CaP SCMNs into porcine skin was also presented. A closer examination of this is shown in the attached video 2.