

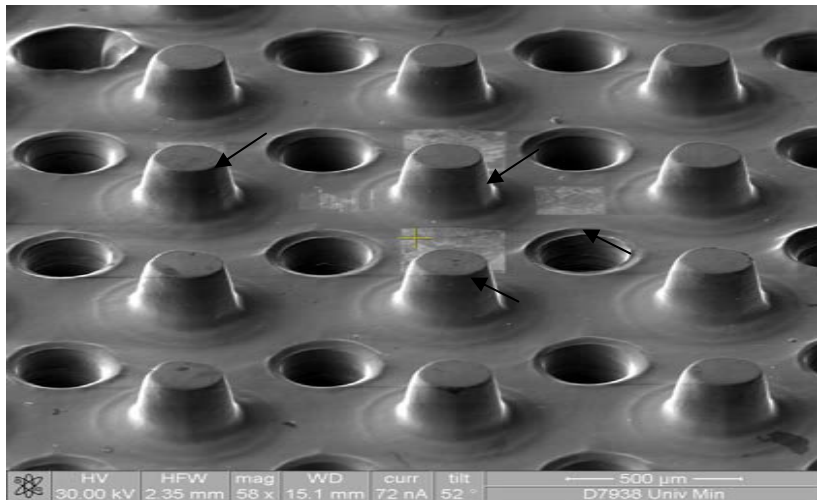
Microfabrication for Tissue Engineering

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NNIN Facility utilized: Nanofabrication Center

DESCRIPTION OF WORK

- ◆ Microtextured and nanotextured substrates influence significantly cell adhesion, cell migration, and gene expression.
- ◆ Nanoscale features were incorporated into the surface of a stainless steel mould (FIG. 1) using Focus Ion Beam (FIB). The main goal is to use this master mould to produce 2D polymeric templates with functional topological cues for cells.



MAJOR OBSERVATIONS

- ◆ Depending on processing conditions, and polymer used, the features on the stainless could be transferred on the polymeric surface.

