

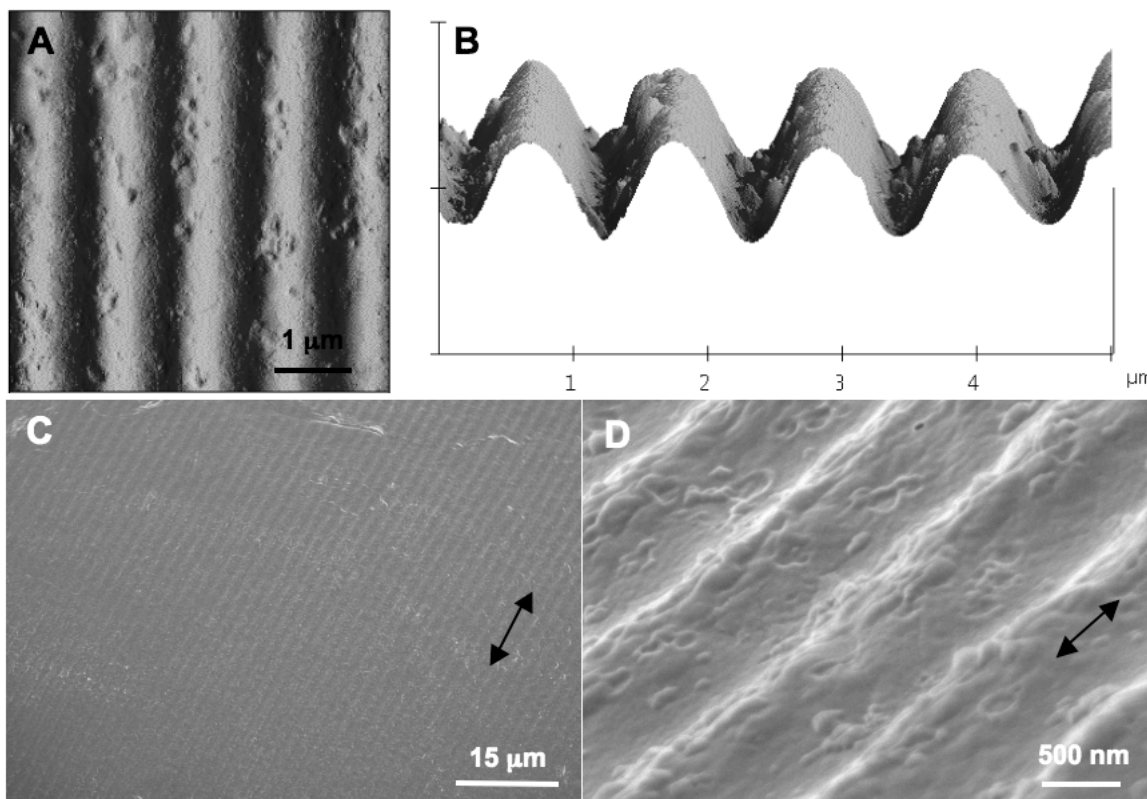
# Microfabricated Matrices for Corneal Tissue Engineering

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NNIN Facility utilized: Characterization Facility

- Collagen matrices were microfabricated and imaged using AFM before seeding with cells.



- A three dimensional matrix structure could be observed and varied.
  - ◆ Cells aligned in the grooves if the spacing was sufficiently small
  - ◆ The microfabricated matrices were as strong as the matrices that were not microfabricated.

**Publications:** Crabb RAB. Hubel A. "Influence of matrix processing on the optical and biomechanical properties of a corneal stromal equivalent". *Tissue Engr.* 14: 173-182, 2008.