

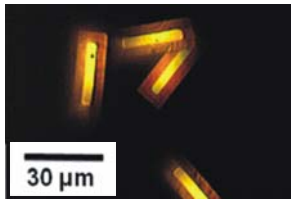
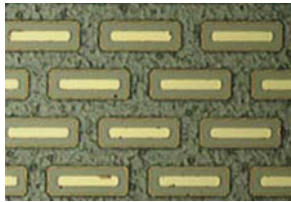
Nanostructured Cancer Vaccines

T. Andrew Taton (PI), Alexi Young, Andrew Chung, Chemistry;

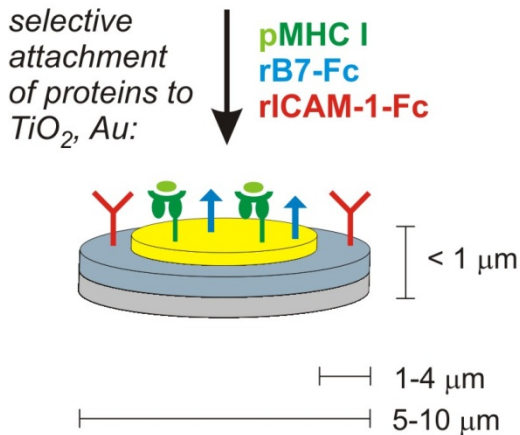
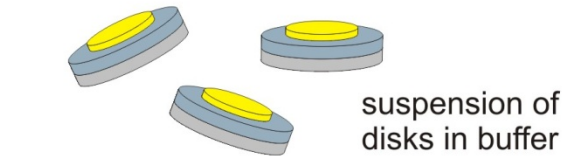
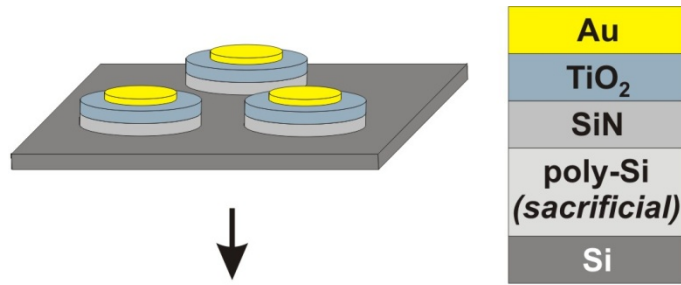
Stephen Campbell, Min Woo Jang, Electrical & Computer Engineering;

Stephen Jameson, Kristin Hogquist, Center for Immunology, University of Minnesota

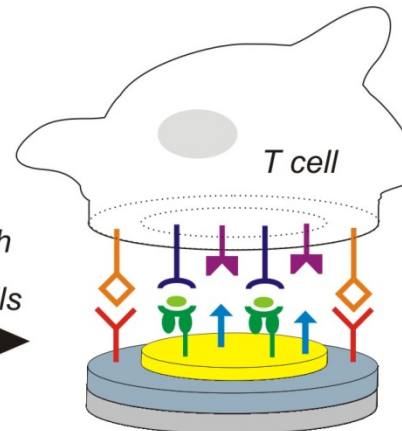
NNIN Facilities utilized: Characterization Facility & Nanofabrication Center



- Patterns of Au, TiO₂ independently generated
- Feature size as low as 1 μm now, 100 nm planned



interact with CD8⁺ T cells



Progress:

- Fabricated, released shapes
- Selectively functionalized shapes with multiple proteins (verified by fluorescence imaging)
- Investigated effect of protein patterns on mouse T cells

