

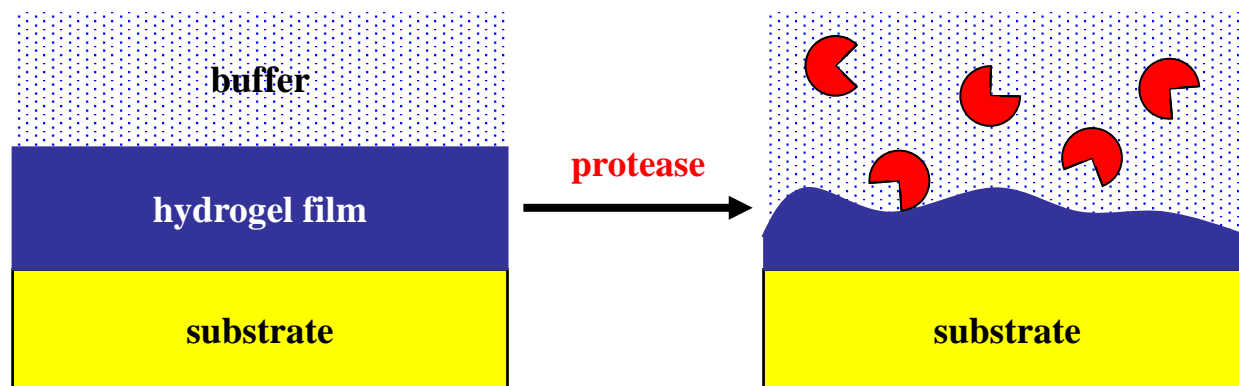
Electrochemical sensing and imaging



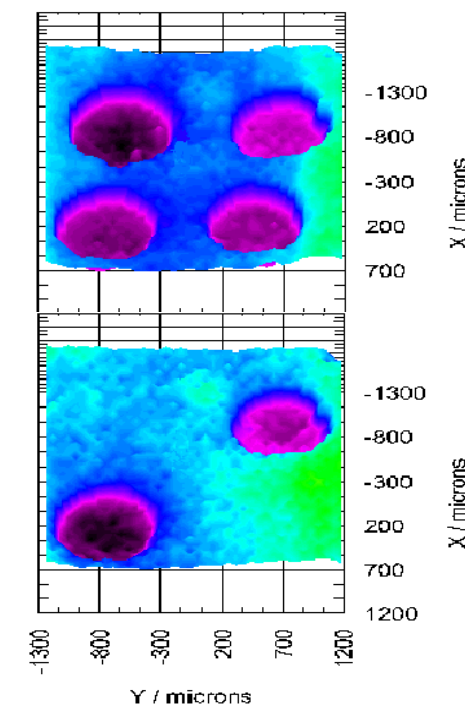
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- Interrogation of sensor arrays
 - DNA or aptamer based sensing in high-throughput sensing
- Protease detection based on the degradation of peptide cross-linked hydrogels
 - inflammation monitoring in periodontal disease and MS
 - detection of coagulation factors

Degradation of hydrogel films monitored using electrical impedance measurements



Photocurrent images of model sensor array



Before addition of α -chymotrypsin ($1 \mu\text{M}$) into pH 7.3 buffer solution

After addition of α -chymotrypsin ($1 \mu\text{M}$) into pH 7.3 buffer solution