

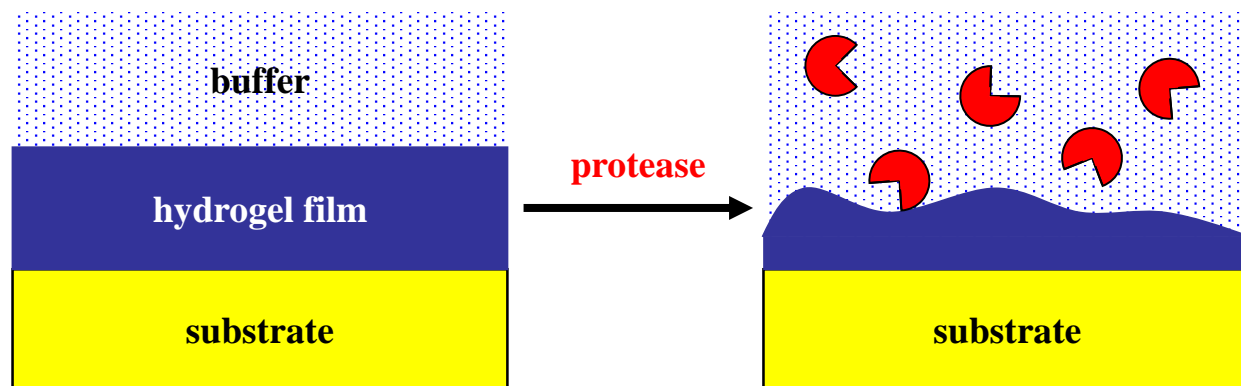
Electrochemical sensing and imaging



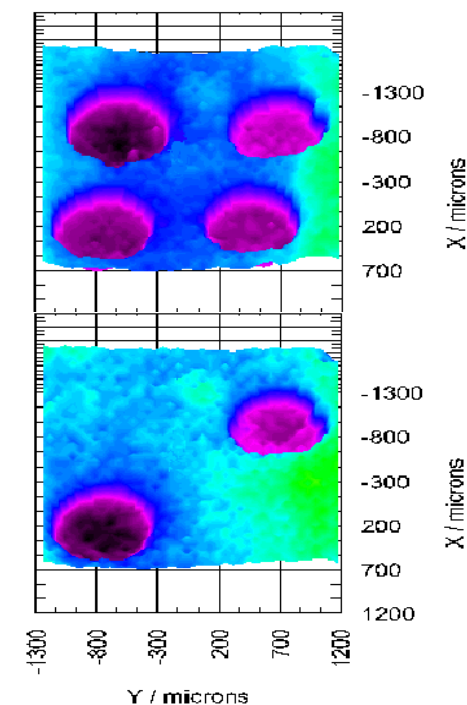
Steffi Krause

- 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 μ M) into pH 7.3 buffer solution

After addition of α -chymotrypsin (1 μ M) into pH 7.3 buffer solution