

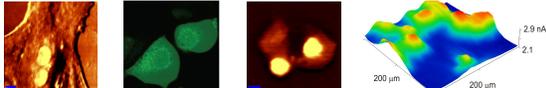
May 11, 2013 at Surface Canada 2013 (Western)

Western

Scanning Electrochemical Microscopy with Scanning Electron Microscopy and Other Techniques

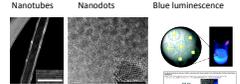
Dr. Zhifeng Ding*

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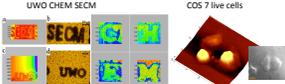


Laboratory of Electrochemistry, Spectroscopy, and Microscopy for Biology and Energy

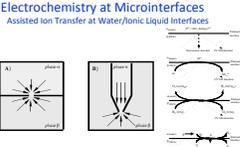
Photoelectrochemistry
Electroluminescent nanocrystals
Solar cells



Scanning Probe Microscopy
Scanning Electrochemical Microscopy, Confocal Microscopy
and Raman Microspectroscopy



Electrochemistry at Microinterfaces
Assisted Ion Transfer at Water/Ionic Liquid Interfaces

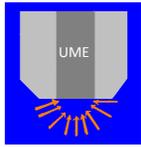


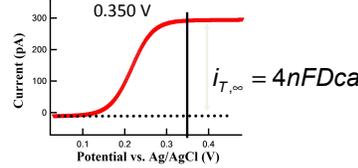
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● Introduction---- Principle of SECM

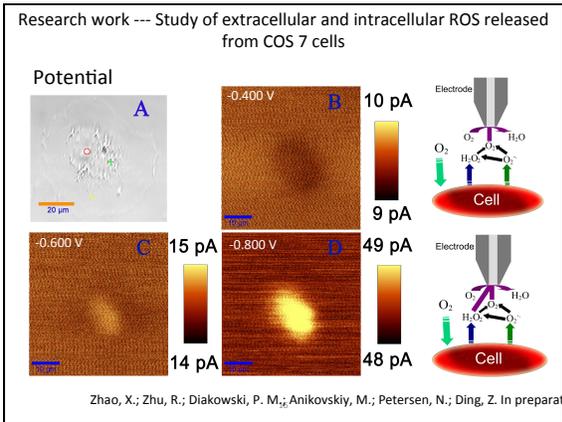
● Probe far away from the substrate

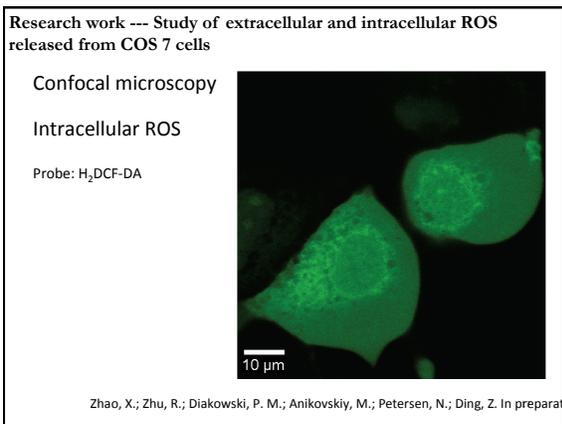


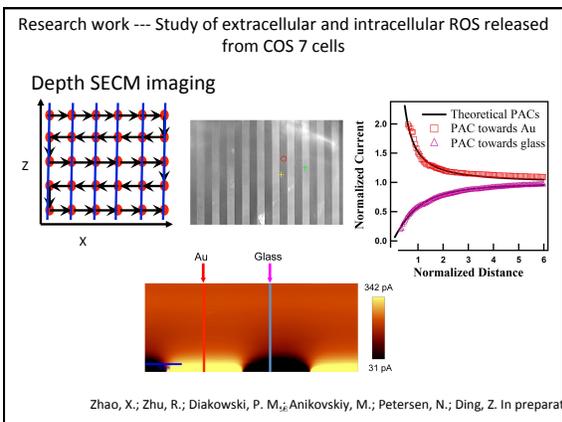


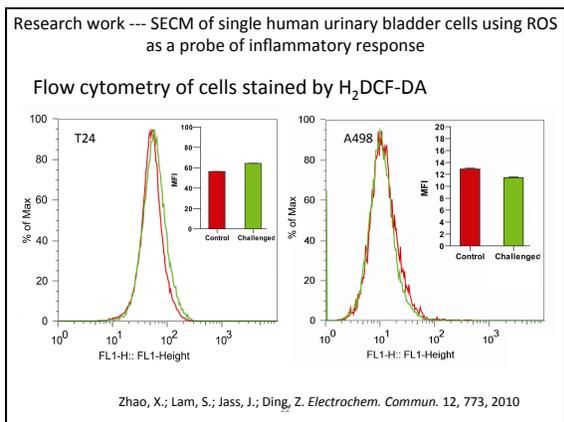
- ✓ Evaluate the quality of UME
- ✓ Confirm the size of the UME
- ✓ Get the right potential to bias on UME in SECM experiments

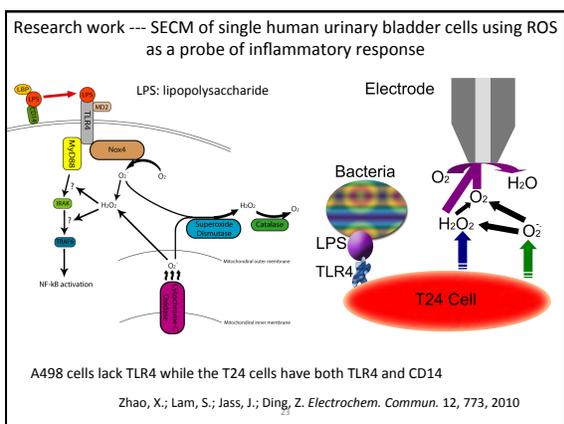
Zhao, X.; Ding, Z. *Can. J. Chem.* **2007**, 85, 175-182.
Zhu, R.; Ding, Z. *Can. J. Chem.* **2005**,

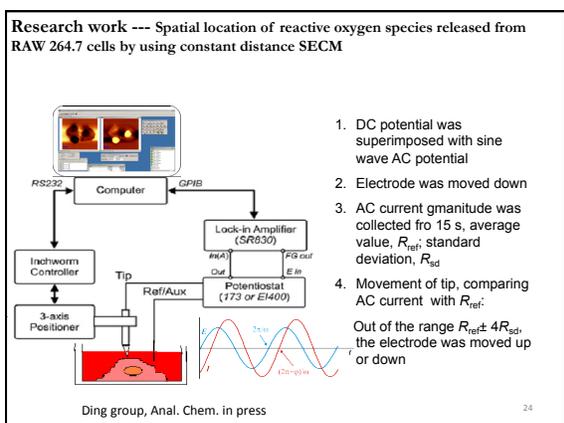


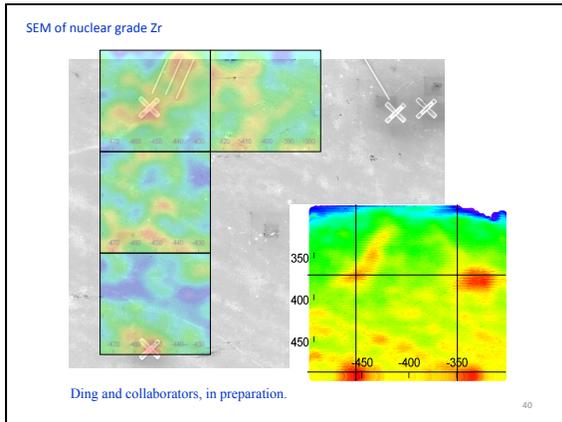


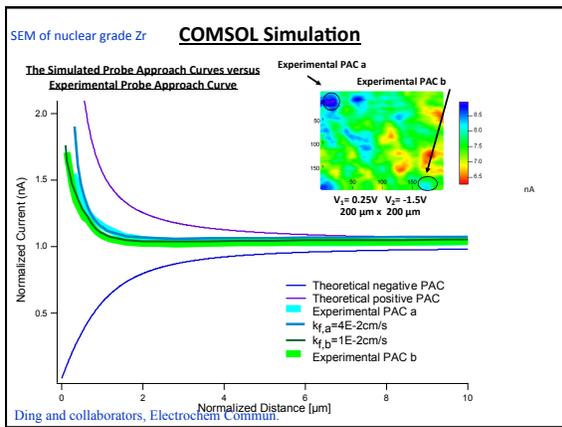


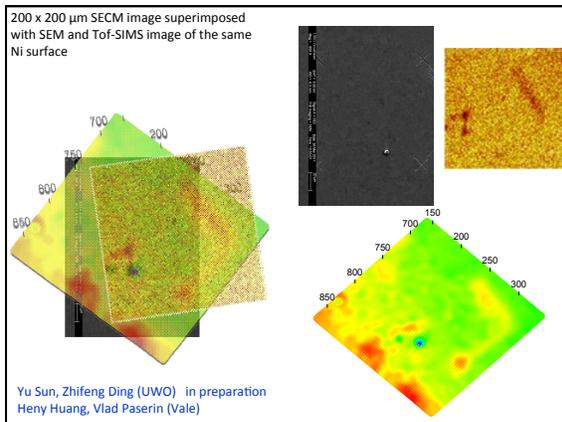












Acknowledgments



Ontario Premier's Research Excellence Award