

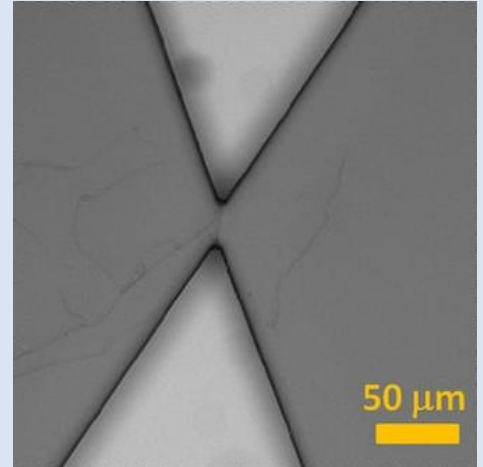
Nanotechnology for Cancer Screening

An IEEE Distinguished Lecture by Dr. Samir M. Iqbal, Professional Engineer, Fellow of the Royal Society of Chemistry

April 26, 7:00 PM (networking 8:00 – 8:30)

**UC Information and Communication
Technology building, Room 114**

Recent biologically inspired devices utilize micro-machined surfaces to interface with cells and detect molecular biomarkers. This allows rapid identification and selective capture of diseased cells. Recognition of small numbers of these is key to early cancer detection, and requires nano-scale approaches that mimic physiological conditions. Nanotechnology is enabling systems for single-cell analysis, providing new insights into cancer progression. Beyond cancer, the manufacturing frameworks developed in Dr. Iqbal's research can be used to translate other molecular and cellular anomalies into meaningful electrical signals. This talk will provide an overview on detection, sorting and isolation of rare cells with nanotechnologies and microfluidics.



Refreshments will be provided.

Interested? nano-cancer-screening.eventbrite.ca



Dr. Samir Iqbal is an Associate Professor with the Departments of Electrical Engineering, Bioengineering and Urology at the University of Texas at Arlington. His work focuses on nanotechnology applications in solid-state sensors, developing novel nano-bio interfaces and cancer screening devices with high sensitivity and selectivity.

He is an IEEE senior member, winner of a US National Science Foundation CAREER award and member of numerous societies, including: Biomedical Engineering Society, Biophysical Society, European Society for Nanomedicine, and Sigma Xi.



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