Department of Chemistry & Biochemistry

School of Integrated Science and Humanities

Departmental Seminar Announcement

Skin cancer detection using Raman spectroscopy

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The health and economic burden of skin cancer treatment in the United States is huge and continues to rise at an alarming rate. Besides developing strategies to improve skin cancer awareness and prevention this disturbing trend may be abated through the development of new skin cancer treatment methods that are less costly and more effective, with lower rates of cancer recurrence.

In this talk I will present our recent results on the development of a rapid and effective biopsy-free method of skin cancer treatment based entirely on laser technology. The approach combines Raman spectroscopy as an in situ method of skin cancer detection, and laser ablation for the removal of skin cancers.

I will also present Raman spectroscopic data on single, living cells and multivariate statistical analyses for cancer detection and characterization.

Date: Friday, October 14, 2016
Time: 11:00 am to 12:00 pm
Location: GL-100 MMC (Live)
Marine Sciences Building Room 105 (MSB-105) – BBC (via Polycom)

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