

## OSSC Combined In-Person and Online Event

### "Bio-Engineering Advanced Medical Solutions (BEAMS) Laboratory at UCI – An Overview & Update"

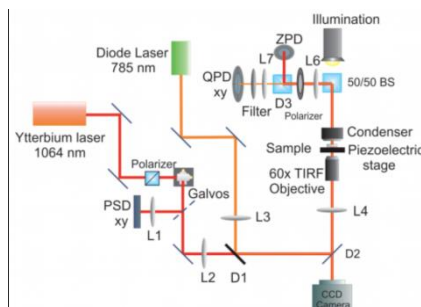
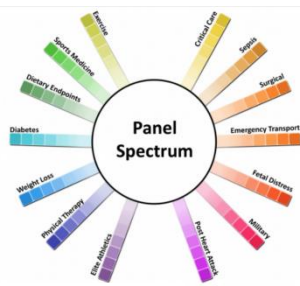
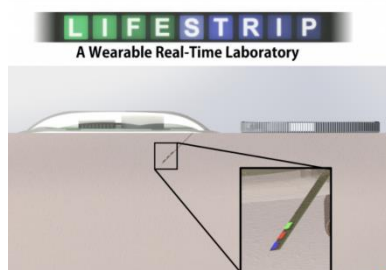
Prof. Elliot Botvinick, UC Irvine, Biomedical Engineering and Surgery Depts.  
The Beckman Laser Institute & Medical Clinic

**About Our Speaker: Dr. Elliot Botvinick** established The BEAMS Lab in 2007. It is part of the University of California Irvine's Departments of Surgery and Biomedical Engineering. The BEAMS group has laboratories at the Beckman Laser Institute and Clinic, the Convergence Optical Science Initiative (COSI) in Applied Innovation, and in the Edwards Lifesciences Center for Advanced Cardiovascular Technology. We focus on mechanobiology and medical device development — both using biophotonic theory and technology for sensing the physical environment within engineered systems, diabetes management, and interstitial analyte sensing for the detection and treatment of disease.



We are curious about intrinsic and external mechanical forces in cellular micro-environments and their effects on the behavior and molecular signaling of cells. This is a growing area of research in which we differentiate ourselves through the application of optical tweezers, engineered platforms, and by always seeking out interesting collaborative relationships.

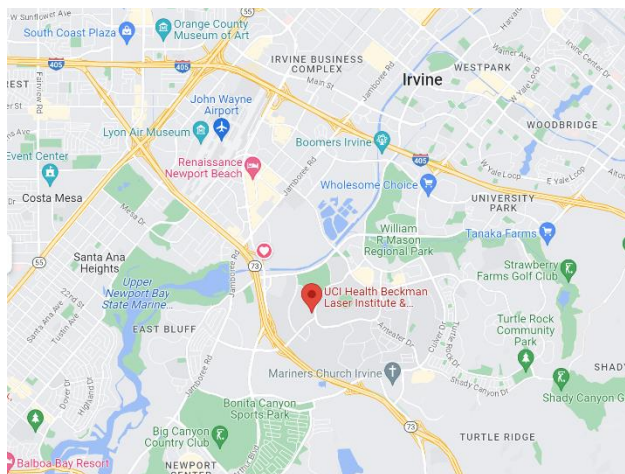
**Prof. Botvinick's presentation** will be an overview of the work conducted at the BEAMS Lab, its current research programs and some futures areas they hope to explore.



#### Multi-analyte sensing

BEAMS lab has developed, and clinically validated, a wearable continuous multi-analyte monitor (CMA) technology platform capable of measuring metabolites in real-time.

The Botvinick lab utilizes a sophisticated technique that we refer to as optical microrheology (MR).



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#### REGISTRATION REQUIRED

Reception: 6:00pm Dinner: 7:00pm

OSSC Nominations: 7:30pm Presentation: 8:00pm

Members: \$35 Non-Members: \$40

Late Fee of \$5 (\$10 for students), after 5:00pm Nov. 3

In-Person Registration by Fri. Nov. 3, 2023

Online Registration by Tue. Nov. 7, 2023

[Register Here](#) In-Person or Online

Venue: [UCI Health Beckman Laser Institute & Medical Clinic](#)  
1002 Health Sciences Rd, Irvine, CA 92612

Parking at UCI is fee based. [See website for details.](#)

[Walking/Parking Map \(uci.edu\)](#) Lots 82 & 84

**Please post this notice and invite your friends & colleagues to attend!**