

# THE JOHN LAWRENCE SEMINARS



## "CONSTRUCTING AND DECONSTRUCTING THE TUMOR MICROENVIRONMENT (TME)"

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Although it is clear that stroma composition and signaling is altered in cancer, less is known about when and how the TME is established and whether carcinogens, like radiation, alter the process. We implemented a mammary chimera model in which histologically and genomically diverse cancer originate from Trp53 null mammary epithelium orthotopically transplanted into a wildtype mice as a function of ages after different exposures. Expression profiling of tissue and tumors identify the biological 'bookends', those processes initiated in normal tissue that appear to contribute to specific types of cancer. These studies show that the mammary tumor spectrum is strongly influenced by host biology. Likewise, preventing cancer may be achieved by using agents that deconstruct the TME.

**TUES., MAR. 15<sup>TH</sup>**  
**4:00 P.M.**

**717 POTTER STREET**  
**ROOM 141**  
**BERKELEY LAB**

**HOST:**  
**MINA BISSELL**

Schedule of Seminars: <http://johnlawrenceseminars.lbl.gov/>  
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