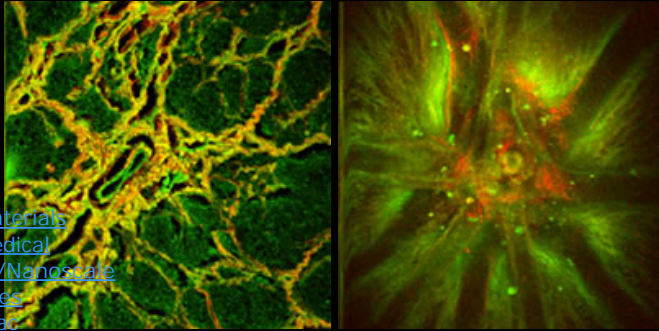


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Webpage: <http://biomed.tamu.edu/tml>



to visualize biological processes/response as they occur in living systems using novel ultrashort laser pulse microscopy. We create integrated platforms to characterize the molecular biology, microscopic biological events and macroscopic tissue properties concurrently. We apply these systems to better understand fundamental processes such as angiogenesis, patterning in development, and tissue growth and remodeling."

Biography

Alvin Yeh was born in 1970 in St. Louis, MO. He received his undergraduate degree in Chemical Engineering (cum laude) at the University of Michigan, where he worked with Professor John Gland using Near-edge X-ray Absorption Fine Structure (NEXAFS) spectroscopy to study conformations of polymer thin films.

Professor Yeh entered the graduate program at the University of California at Berkeley in Chemistry in 1993. He worked with Professor Charles Shank in the study of ultrafast dynamics of novel materials using femtosecond optical pulses. This work included studying the initial energy relaxation events in semiconducting quantum dot/quantum well structures and metal-to-ligand charge transfer compounds.

In 2000, Professor Yeh joined Beckman Laser Institute at University of California, Irvine as a postdoctoral Carcinogenesis Training Fellow. It was here where he first applied his expertise in ultrafast spectroscopy to imaging biological systems using Nonlinear Optical Microscopy (NLOM). Professor Yeh joined the faculty of Texas A&M University as an Assistant Professor of Biomedical Engineering in Fall, 2003 and received the Faculty Early Career Development (CAREER) Award from the National Science Foundation in 2005. His research interests focuses on the development and use of NLOM to microscopically characterize living biological systems and to help bridge understanding of molecular cell biology and chemistry with tissue/organ properties and function.

Keywords

- Biomedical sensing and imaging (microscopy)
- Nonlinear optical microscopy
- Ultrashort laser pulses
- Cell-matrix interactions
- Angiogenesis
- Development
- Mechanobiology
- Host-tumor interactions



Alvin T Yeh
 Associate Professor of Biomedical Engineering
 Office: 335P Zachry
 Phone: 979-845-5468
 Email: ayeh@tamu.edu

Education:
 Ph. D., Chemistry, University of California, Berkeley, 2000
 B. S. E., Chemical Engineering, University of Michigan, 1993

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