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Back to List

### James G. Fujimoto



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Direct Link to this Page

Professor James. G. Fujimoto is a principal investigator in the Research Laboratory of Electronics (RLE) and Department of Electrical Engineering and Computer Science at the Massachusetts Institute of Technology (MIT). He received his S.B., S.M., and Ph.D. in EECS from MIT in 1979, 1981, and 1984 respectively. He joined the MIT faculty in 1985 and is currently Elihu Thomson Professor of Electrical Engineering and Computer Science at MIT and Adjunct Professor of Ophthalmology at Tufts University School of Medicine.

Professor Fujimoto's research involves biomedical imaging, optical coherence tomography (OCT), advanced laser technologies and applications in diverse areas including ophthalmology, endoscopy, cancer detection, surgical guidance and developmental biology. The research team was responsible for the invention and development of optical coherence tomography (OCT). OCT is now considered a standard of care in ophthalmology with several 10s of million procedures performed per year internationally. The group is continuing research on advanced biomedical imaging and OCT technology, including high-speed and high-resolution imaging, functional Doppler flow and angiography as well as polarization sensitive methods. The group investigates OCT applications in multiple areas including: clinical ophthalmology, endoscopy, small animal imaging, pathology laboratory

#### **Group Websites**

Biomedical Optical Imaging and Biophotonics Group imaging, developmental biology, neurosciences and genetics. In addition, the group has extensive experience in femtosecond laser technology and ultrafast measurement.

Professor Fujimoto has published over 400 journal articles, is editor or author of 9 books, and holds numerous U.S. patents for his discoveries. He is a fellow of the National Academy of Engineering, National Academy of Science and American Association for the Advancement of Science. He received the 1999 Discover Magazine Award for Technological Innovation, is co-recipient of the 2001 Rank Prize in Optoelectronics, received the 2011 Zeiss Research Award and is co-recipient of the 2012 Champalimaud Vision Award.

### **Keywords**

Biomedical imaging, optical coherence tomography (OCT), swept source OCT, spectral domain OCT, photonics, ophthalmic imaging, endoscopic imaging, multiphoton microscopy, optical biopsy, surgical guidance, cancer detection, femtosecond lasers

#### **Selected Publications**

12.23.2013
Handheld ultrahigh speed swept source optical coherence tomography instrument using a MEMS scanning mirror (OSA)

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## **Related News Links**

o2.15.2018

Honorary doctorate awarded to
Professor James Fujimoto by FriedrichAlexander-Universität ErlangenNürnberg

12.15.2017 Study by ARVO authors finds vision research pays for itself

o3.20.2015
Fujimoto is recipient of the OSA Frederic
Ives Medal

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o2.20.2015

James Fujimoto Awarded the Honorary

Doctorate Degree at the Nicolaus

Copernicus University

o1.13.2011 James G. Fujimoto Named the Recipient of the Carl Zeiss Research Award

o4.26.2006 James G. Fujimoto Elected to the National Academy of Sciences

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o4.03.2013
Optical Coherence Tomography:
Transitioning technology from research to clinical practice

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