	QBIC SEMINAR
Speaker	David D. Thomas, Ph.D. Department of Biochemistry, Molecular Biology, and Biophysics, University of Minnesota
Date & Location	Wednesday, September 27, 2017, 15:00 - 15:40 Osaka, QBiC Bldg. A 1F lounge (6-2-3, Furuedai, Suita, Osaka) There will be a TV broadcast at Kobe CDB bldg.A 7F seminar room.
Title	Muscle Protein Structural Dynamics and Therapeutic Discovery
Abstract	We have used spectroscopic probes to develop new therapies for treating muscle disease, such as heart failure and muscular dystrophy. We attach probes (spin labels or fluorescent dyes) to selected sites on muscle proteins, then use time –resolved spectroscopy to determine structural changes during function and malfunction. This approach allows us to determine the mechanisms of action of these proteins, and to determine how these mechanism are altered by disease-causing mutations. Then we use these insights to develop new therapies for treating muscle disease. We started a company, Photonic Pharma LLC, to make these new therapies available to the health care industry. This company is directed by Jennifer Jewell Thomas. To learn more about our technology, visit our web sites: Minnesota Muscle Laboratory: https://cbs.umn.edu/ddt/home Photonic Pharma LLC: http://www.photonicpharma.com/
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