The relationship between mitochondrial network asymmetry and physiology

Pinkesh Patel
Huang Group
Bioengineering

Mitochondria, the ATP-generating powerhouses of the cell, form complicated networks via the process of mitochondrial fusion and fission. I will talk about recent experiments done on mitochondrial networks in human Beta-pancreatic cells and the lay out the framework for ongoing work on simulating such mitochondrial networks.

Design methodology for a compact photonic crystal wavelength division multiplexer

Victor Liu
Fan Group
Electrical Engineering

We present an extremely compact wavelength division multiplexer design, as well as a general framework for designing and optimizing frequency selective devices embedded in photonic crystals satisfying arbitrary design constraints. Our simulation method allows us to efficiently simulate many tens of thousands of designs.

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Friday 11/11 @ 1PM
Chemistry Gazebo
lunch will be served!