



BIOMEDICAL ENGINEERING LECTURE SERIES

THURSDAY, OCTOBER 30, 2008, 2:30 PM

**FIU Engineering Center
10555 West Flagler Street
Room 2300**

NANOTECHNOLOGY FOR EYE REPAIR

Magnetic nanoparticles may be used for multiple therapeutic avenues in the visual system. Our laboratory's work on localizing neuroprotective and regenerative trophic signaling, inducing axon growth into the optic nerve, and directing cellular replacement therapies will be discussed.

**JEFFREY GOLDBERG, M.D., PH.D.
BASCOM PALMER EYE INSTITUTE
DEPARTMENT OF OPHTHALMOLOGY**

Jeffrey Goldberg is a neuroscientist and ophthalmologist at the Bascom Palmer Eye Institute at the University of Miami Miller School of Medicine in Miami, FL. He gained his B.S. in Biology at Yale University and then his M.D. and Ph.D. in Neurosciences at Stanford University, Stanford, CA. While at Stanford he studied the intrinsic and extrinsic signaling of survival and axon growth of retinal ganglion cells. His laboratory now uses a variety of molecular, cellular, and in vivo animal models to continue these studies. One of the major projects in his laboratory focuses on the use of magnetic nanoparticles to probe cellular and subcellular signaling and growth. His laboratory is currently funded by the NEI, NINDS, and a variety of foundation grants.

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