



# JOHNS HOPKINS

## BIOMEDICAL ENGINEERING



**Monday March 9, 2009, 1:00 PM, Ross G007 (Darner Conference Room)**  
Light lunch will be provided at 12:15



### **Engineering Animal Models for Mechanistic Studies in Angiogenesis**

**Andrew S. Greene, PhD.**

Professor  
Director of the Biotechnology and Bioengineering  
Center Medical College of Wisconsin  
Translational Biomedical Research Center

Hosted by Drs. A. Shoukas & M.I. Miller

**Abstract** Approximately 28% of the United States adult population has hypertension and that prevalence increases sharply with advancing age reaching nearly 78% by age 75. Drugs that block the rennin-angiotensin system have now become the most common form of antihypertensive medication with nearly 70 million prescriptions written in the US every year. Blockade of this system effectively lowers blood pressure and appears to have many beneficial effects; however our previous research has shown that among its negative effects, blockade may also inhibit angiogenesis and produces rarefaction of the microcirculation. This talk will summarize studies aimed at investigating the mechanisms by which blockade of the renin-angiotensin system produces this effect *in vivo* using genetically engineered rat models.

#### Upcoming Seminars

March 23: Chris Sander, Memorial Sloan-Kettering Cancer Center  
March 27: Lauren Black, University of Minnesota

<http://www.hopkinsmedicine.org/ibbs/news/events.html>  
<http://www.hopkinsmedicine.org/scical>

**For more information call 410-516-7903**  
<http://www.bme.jhu.edu>