



Charles F. Nawrot, Ph.D.

Interim Associate Vice President
Technology Transfer & Economic Development

Augusta



Medical College of Georgia

- Founded in 1828 (11th oldest Medical School)
- Georgia's Health Sciences University
 - Medicine
 - Dentistry
 - Nursing
 - Allied Health Sciences
 - Graduate Studies
- **MCG's mission is** to improve health and reduce the burden of illness in society by discovering, disseminating and applying knowledge of human health and disease.



Research at MCG

- Five Areas of Focus
 - Cancer
 - Cardiovascular Disease
 - Diabetes/Obesity
 - Infection/Inflammation
 - Neurological Disease
- Research Emphasis began around 1998
 - 300 Principal Investigators
 - Funding: \$15 million to \$77 million (FY07)
 - Peers: MUSC, Medical College of Wisconsin, University of Texas Health Center, University of Kansas Medical Center



MCG's Eminent Scholars

Kapil Bhalla, MD

William Dynan, Ph.D.

Lin Mei, Ph.D.

Andrew Mellor, Ph.D.

Guy Reed, MD

Jin-Xiong She, Ph.D.

Max Stachura, MD

Robert Yu, Ph.D., Med Sci D

Cancer Research

Radiation Damage

Neuroscience

Immunogenetics

Heart Attack/Stroke

Autoimmune Disorders

Telemedicine

Neurobiology/Stem Cells



“Why Georgia?”

“The environment is conducive to growth and development of the biomedical research enterprise (personnel, funding, space and equipment).”

“Affords the opportunity to live in an expanding state with positive attitudes to research and education.

Dr. Andrew Mellor



Economic Impact of MCG

- The research and its generation of inventions, patents, and commercial licenses
- The commercialization of research through the formation and growth of new Georgia-based companies
- The economic impact of the university community itself.



Tech Transfer at MCG

2002 – 2007

- 188 New Biomedical Inventions
- 167 Patent Applications
- 29 Issued Patents
- 49 Agreements
- \$1.5 million in Licensing Income



Commercialization Efforts

Life Sciences Business Development Center 2003 – 2007

- Start-up company incubator
- 18,000 sq. ft. of premiere “wet lab” space
- Five company suites
- Access to MCG Core Laboratories

One of Georgia’s six statewide Centers of Innovation 2004

- Regional (CSRA) → Statewide Charter
- GMCA, GRA, Angel Investment



Company Scorecard

ClariPath Laboratories, Inc.

First graduate from LSBDC
Moved to downtown Augusta

Xytex Research

Stem Cell Preservation

EMThrax, LLC

From USC in Columbia
Vaccines for the military

Apeliotus Technologies

(Atlanta based)

Research collaboration with MCG PI

OrganiPharm, LLC

Neutraceutical firm from Dalton, GA



Company Scorecard

Luminomics, Inc.

New faculty member from St. Louis, MO

Reach Call

Telemedicine for stroke

MCG founders from Dept. of Neurosurgery

Winners of the 2006 GRA/TAG Business
Launch Competition

\$2 million sales in first year!

~~**Manoa Transgenenics**~~

Technology from Vanderbilt and
University of Hawaii

Founder moved to NIH

Insufficient management talent



MCG and CSRA

Results of study by Georgia's ICAPP for FY04

Selig Center for Economic Growth at UGA

- Initial spending \$470.1 million
- Output Impact \$800.8 million
- Labor Income \$410.7 million

- Number of jobs 8,830
 - On Campus 4,657
 - Off Campus 4,173



MCG and CSRA

Regional Medical Care

- Eleven Hospitals and Medical Care Facilities
- Over 80 Specialty Clinics
- Seven Clinical Trial Hospitals (ACRC)



Opportunities

- MCG's Research will launch new businesses at an increasing rate
 - Biological Drugs
 - Dental Products
 - Diagnostics
 - Therapeutic Medical Devices
- Our LSBDC continues to attract businesses from outside the state
- Business ventures from “Rural” Georgia through the Center of Innovation



Challenges

- Will need more incubator space for start-up companies
- Strategies to assist with the growth of proven life science companies – financing and infrastructure
- Seed and Angel Capital Sources
- Statewide reach for the Life Sciences Center of Innovation



BIO 2009

- Showcase Georgia
 - A great place to live and do business
 - We understand the Life Sciences Industry
- Encourage visits to Georgia's premier research universities
 - Emory University
 - Georgia Institute of Technology
 - Georgia State University
 - Medical College of Georgia
 - University of Georgia
- Bring a bigger and better COI to the meeting in 2009