Welcome to Wayne
New Faculty Orientation
September 30, 2010

Wayne State
School of Medicine

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Dean
History

- Began in 1868 as the Detroit College of Medicine
- Of 130 medical schools in the US
  - 3rd highest medical student enrollment
  - 1st largest single-campus medical school
- Detroit’s only Medical School
Nearly 2,300 Students and Trainees

- Degree Programs
  - ~1,160 MD students (290/class)
  - ~350 graduate science students enrolled in MS and PhD programs

- Graduate Medical Education
  - WSU Sponsored Programs
    - Accredited Programs: 8 = 99 residents
  - DMC Sponsored Programs
    - Accredited Programs: 49 = 670 residents/fellows
  - CHM Sponsored Programs
    - Accredited Programs: 9 = 135 residents/fellows
Current Status (cont’d)

- 3,450 faculty members
  - ~750 Full-time faculty
  - ~2,700 Voluntary faculty (this total includes 395 FTA Voluntary Appointments)
Education
The mandate to American Medical Colleges to respond to an impending shortage of physicians
- Projected national shortage of ~8 percent by year 2020
- Projected Michigan shortage of ~12 percent by year 2020*

How to balance this mandate with maintaining excellence in the undergraduate medical educational experience
- Increase the size of our entering medical school class from 270 to 300 to address the impending physician shortage

* Michigan Blue Ribbon Physician Workforce Committee (2007)
Providing Medical Education for Michigan Students

- 82% of the School of Medicine MD students are from Michigan, making the School the leading provider of medical education for Michigan residents
- Sixty percent (60%) of SOM graduates remain in Michigan to practice medicine
Producing Physicians for the State of Michigan

- WSUSOM ranks first in the nation among its 125 medical schools for the number of graduates who plan to stay in state to practice.

- More than 40 percent of all practicing physicians in Michigan received all or part of their medical training at the School of Medicine, including WSU/DMC residency programs.
Educational background of fully licensed, actively practicing physicians in Michigan in 2007

- Michigan State University College of Human Medicine: 13%
- Michigan State University College of Osteopathic Medicine: 19%
- University of Michigan Medical School: 25%
- Wayne State University: 43%

Where our doctors trained:
- Caribbean: 2%
- Canada: 1%
- Other countries: 25%
- Other U.S. states: 33%

39% of physicians trained in Michigan.

SOURCE: Michigan Department of Community Health Survey of Physicians 2007

DAN JACALONE / THE SAGINAW NEWS

WAYNE STATE
School of Medicine
Southeast Michigan Center for Medical Education

- William Beaumont Hospital
- Crittenton Hospital Medical Center
- Detroit Medical Center
- Henry Ford Health System
- Karmanos Cancer Center
- Oakwood Health System
- Providence Hospital & Medical Center
- St. John Hospital & Medical Center
- St. Joseph Mercy Ann Arbor
Graduate & Postdoctoral Training Programs and Interdisciplinary Biomedical Sciences (IBS) Curriculum
Office of Graduate & Post-Doctoral Scholars

**PhD in:**
- Anatomy and Cell Biology
- Biochemistry and Molecular Biology
- Cancer Biology
- Immunology and Microbiology
- Medical Physics
- Molecular and Cellular Toxicology
- Molecular Medicine and Genetics
- Pathology
- Pharmacology
- Physiology
- Translational Neuroscience

**MS in:**
- Master of Public Health
- Genetic Counseling
- Radiologic Physics
- Psychiatry
- Biomedical Sciences
- Medical Research

**MD/PhD (combined):**
- 4 students/yr (32 total)
- 7-8 year program
- Full tuition scholarship
MD/PhD Program

**Mission**

- Attract the best and brightest:
  - GPA ≈ 3.78; MCAT ≈ 11.3 avg.
- Provide outstanding physician-scientist training.
- Obtained NIH F30 & other fellowship.
- Goal: NIH MSTP award to SOM.
- Seed local and national residency and fellowship programs with our graduates.
- Attract fully trained graduates back to our faculty.
Graduate: PhD & MS

Over 385 PhD Graduates since 1998

- >85% go on to postdoctoral positions in:
  ◦ Universities
  ◦ Government (NIH)
  ◦ Industry/Biotech

- Remainder continue at professional schools (medicine, law) or go directly into non-research teaching jobs

- >20% hold faculty positions
Research
Wayne State University is ranked 44th in the nation by the National Science Foundation in research expenditures in the medical sciences
  ◦ WSU School of Medicine overall >$144M in FY2008
  ◦ Top half of all medical schools
Research Strategic Foci

- Centers of Excellence
  - Cancer
  - Maternal and Child Health
  - Neurosciences
  - Urban Health
  - Cardiovascular Medicine
Research Strategic Foci

Cancer

- WSU’s Barbara Ann Karmanos Cancer Institute is one of just 41 NCI designated comprehensive cancer centers in the nation
- It is one of only 11 free standing cancer centers
- Research is conducted across five major core programs
  - Breast Biology, Proteases and Cancer, Molecular Oncology and Genetics, Developmental Therapeutics and Population Sciences
- KCI is supported by nearly $40 million in annual peer reviewed direct funding
Research Strategic Foci

- Maternal and Child Health
  - WSU is home of the Perinatology Research Branch of the National Institutes of Child Health & Human Development
    - One of just three and largest NIH intramural branch outside of Maryland
  - Department of Obstetrics and Gynecology
    - Ranked in the top 10 as measured by NIH research funding
    - Participating member in the NIH/NICHD Cooperative research programs in Maternal-Fetal-Medicine and Reproductive Endocrinology/Infertility
    - Home of the C.S. Mott Center for Human Growth and Development which has recently undergone a nearly $20 million dollar renovation
Research Strategic Foci

- Neurosciences
  - Anatomy/Cell Biology & Ophthalmology's Core Vision Center grant has been successfully renewed for years 26-30
    - Only 35 vision grants available in the US, which attests to the robust nature of vision research fostered here at WSU
  - Psychiatry serves as the lead institution for national cooperative studies in:
    - Schizophrenia and bipolar disorders
    - Substance abuse in persons living with HIV/AIDS
    - Opioid dependence and pain management
    - Pediatric obsessive compulsive disorder
  - Neurology is a national leader in sponsored research in multiple sclerosis
Urban Health

- SOM is home to one of just eight NIH designated transdisciplinary centers for the study of racial and ethnic health disparities: Center for African American Urban Health (CUAAH)
  - Focus: 3 thematically linked projects aimed at understanding the contributory factors (i.e., genetics, lifestyle, diet) and how these factors interact in the development of obesity, cardiovascular diseases and breast cancer.
Research Strategic Foci

- Cardiovascular
  - Kim Williams, MD has joined the Department of Internal Medicine as the Cardiology Division Chief.
  - J-P Jin, MD, PhD, Professor and Chair of Physiology has received 1 of 3 University enhancement awards to develop a multidisciplinary translational research group in Cardiovascular Adaptation and Disease Prevention.
  - The Cardiovascular Research Institute, directed by Karin Przyklenk, PhD, has successfully completed its first year’s recruitment and research goals.
Clinical Care
Wayne State University Physician Group
- 532 credentialed providers
- One of Michigan’s three largest physician groups
Clinical Care

- Our faculty physicians
  - Committed to delivering quality patient care within the framework of education and research
  - Committed to caring for the under- and uninsured
  - Unique training and expertise
  - Nationally recognized in their fields
Clinical Care
Major Responsibilities

- Tertiary/quaternary care referral practice
  - Developing and applying the latest treatments and advanced technologies
  - “Bench to bedside” research

- “Safety net” services: Delivery of care to the under- and uninsured by WSU School of Medicine faculty physicians
Clinical Care Opportunities

- Implementation of a single, multispecialty physician group to enable
  - Integration of the education, research, and clinical care missions
  - Development of a single strategic direction
  - The practice of evidence-based medicine
  - Best business practices
  - Regional presence
Clinical Care Opportunities (cont’d)

- Develop an ambulatory center of excellence that enables
  - A stable practice environment for faculty
  - Wayne State University physician pride
  - A “patient-centric” service culture
  - Positive promotion of the Wayne State University name by an identifiable location
WSUPG proudly congratulates its doctors selected by their peers as experts in clinical care

Dr. Gary Abrams  Dr. Lawrence Flaherty  Dr. Lawrence Morawa  Dr. Joel Steinberg  Dr. Eric Ayers  Dr. Bernard Gonik  Dr. Edwin Monsell  Dr. Robert Sokol  Dr. Evan Black  Dr. Mark Juzych  Dr. Isaac Powell  Dr. Alexandros Tselis  Dr. Diane Brown  Dr. John Kamholz  Dr. Shankar Rau  Dr. Joseph Uberti  Dr. P. Cadnapahornchai  Dr. Dana Kissner  Dr. Andrew Rowley  Dr. Manual Valdivieso  Dr. P. Chandrasekar  Dr. Diane Levine  Dr. John Ruckdeschel  Dr. Craig Watson  Dr. Seemant Chaturvedi  Dr. Richard Lewis  Dr. Charles Schiffer  Dr. Donald Weaver  Dr. Jonathan Cohn  Dr. Jun Li  Dr. Aashit Shah  Dr. Donald Washington  Dr. Lawrence Crane  Dr. Robert Lisak  Dr. Anthony Shields  Dr. Donald Weaver  Dr. John Crissman  Dr. Patricia LoRusso  Dr. Wilbur Smith  Dr. George Yoo
“Vision 2011”
Academic Goals
“Vision 2011”

The Richard J. Mazurek, M.D. Medical Education Commons will be a regional hub for high tech teaching of medical students and residents.

June 2009

Raised $30 million
The School of Medicine will remain Michigan’s dominant force in medical education and its primary supplier of physicians.
WSU will be a recipient of the NIH’s Clinical and Translational Science Award (CTSA) program
  ◦ WSU, MSU, Ford, Van Andel Institute to submit CTSA application October 2010.

The School’s interdisciplinary research focus will have enhanced our culture of collaboration
  ◦ Among SOM departments
  ◦ With other University schools and colleges
  ◦ With our research and education partners
“Vision 2011”

- Our Centers of Excellence will be well-recognized as national role models for interdisciplinary research
  - Cancer
  - Maternal and Child Health
  - Neurosciences
  - Urban Health
  - Cardiovascular Diseases
  - Other Developing Foci
“Vision 2011”

The School will enhance and expand its clinical and educational mission with our affiliated community partners

- Detroit Medical Center
- Henry Ford Health System
- Karmanos Cancer Institute/Karmanos Cancer Center
- Oakwood Health System, Inc.
- Crittenton Hospital Medical Center
- Veterans Administration Medical Center
- St. John’s Health System
- Southeast Michigan Center for Medical Education
“Vision 2011”

- Construction will be underway for a new state-of-the-science Biomedical Research Building

$180 million

To be funded by federal and state funds and philanthropy
Our new facility will be home to a cadre of research-intensive investigators that will embody a new paradigm of interdisciplinary research and the transfer of technology to the community, region and nation.