College of Veterinary Medicine
What do veterinarians do?

• Care for animals
• Serve in the military
• Conduct biomedical research
• Protect our local and global food supply
• Support public health strategies
• Detect and respond: EID, FAD
Ohio State College of Veterinary Medicine

- Founded in 1885
- Ranked 5th in North America (out of 28 veterinary colleges)
- Produced more than 8,800 grads – 1st in U.S.
Care for animals

- Veterinary Medical Center
  - Three hospitals:
    - Hospital for Companion Animals
    - Hospital for Farm Animals
    - Galbreath Equine Center
  - 35,000 animal patients per year
  - 43 specialties from dermatology to radiation oncology; canine rehabilitation to theriogenology (reproduction)
- Ambulatory equine service in Columbus
- Large Animal ambulatory practice in Marysville, OH

Bringing you a healthier world
• Three departments:
  – Veterinary Biosciences
  – Veterinary Clinical Sciences
  – Veterinary Preventive Medicine

Affiliated organizations:
- Food Animal Health Research Program (FAHRP) in Wooster, OH at OARDC
Services provided

• Necropsy
  – Euthanized animals from VMC
  – Clients seeking cause of death from farms and other facilities

• Extension
  – Advise farms and production facilities
  – Partnership with Ohio Department of Rehabilitation and Corrections
Degrees offered

• Doctor of Veterinary Medicine (DVM) – Approximately 560 students in 4 classes, three years spent in course work; senior year spent in clinical rotations

• Comparative and Veterinary Medicine graduate program (Master’s and Ph.D.)

• Internships (post-DVM) and Specialty Residencies

• Master’s degree in Veterinary Public Health (with the College of Public Health) – 2nd largest in nation
Who is in the college?

- 560 DVM students
- 15 interns
- 60 residents
- 100 graduate students
- 130 faculty
- 300 administrative staff and hospital technicians
- Numerous adjunct faculty
Class of 2014

- 116 women; 26 men
- GPA: 3.71; GRE: 1219; Avg 4.5 yr undergrad
- Average 1,736 veterinary hours
Summer research for DVM students

Veterinary Summer Research Students

Year

2004 2005 2006 2007 2008 2009

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College Research Mission

• Promote translational research programs that improve the lives of animals and people for a healthier world

Bringing you a healthier world
Signature Research Programs

• Center for Retrovirus Research
  – Viral causes of cancer
  – Developed feline leukemia vaccine

• Comparative oncology

• Infectious diseases

• Imaging

• Clinical Trials Office
Shared Resources

• Analytical Cytometry and Cell Sorting
• Animal Imaging Core
• Applied Pathology
• Biochemistry and Molecular Biology Core
• Clinical Pathologies Laboratory
• Comparative Pathology and Mouse Phenotyping
  Shared Resource/Histology and Immunohistochemistry
• Infectious Disease Molecular Epidemiology Laboratory (IDMEL)
International partnerships

- Examples:
  - Africa
  - Thailand
  - France
  - Spain

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National Science Foundation Grant to Model Foot and Mouth Disease

Dr. Rebecca Garabed, Assistant Professor in Veterinary Preventive Medicine and colleagues Drs. Mark Moritz (Anthropology), Song Liang (Public Health), Ningchuan Xiao (Geography) were recently awarded a $1.4M grant from the National Science Foundation entitled “Livestock Movements and Disease Epidemiology in the Chad Basin: Modeling Risks for Animals and Humans.”
Research highlights

• U.S. Food and Drug Administration approved PALLADIA, to treat mast cell tumors in dogs, first canine cancer therapy. **Dr. Cheryl London**, associate professor in the Departments of Veterinary Biosciences worked with Pfizer since 2000 to help develop the treatment.

• Strong NIH funding
• Half of Ohio State IOM members
• Expanding partnership – James Cancer Hospital and Solove Research Institute
Vision

• Vision is “to Create a Healthier World”

• Strategic Drivers:
  – Boundary Spanning
  – 7 health science colleges
  – Corporate partners
  – Global Vanguard Leadership
  – Innovation

• College Business Plan – external experts

• Transforming and creating the
Economic Impact

- Ohio Food and Agriculture = $40 billion (GSP)
- Veterinary Medicine = $2 billion; 1,100 businesses; direct and indirect = 33,362 jobs
- Related services = approximately 60,000 jobs and another $3 billion
- Populations: 3.2 million dogs, 3.6 million cats, 500,000 birds, 320,000 horses
- (2/3 Ohio households)
- 74,000 farms – food animals
Development/fundraising

• $14 million raised 2009-2010
• Developed new program for Grateful Clients of the Veterinary Medical Center
• Communications Plan
• Economic Analysis
• Commercialization and IP – ranks top at Ohio State
• Focus-Forward Initiative
• Research $14 million; new NIH building grant
Promoting the college

- Developed strategic communications plan with local advertising agency, “Ologie”
- Developing new web site
- Working with WOSU Big 10 network
- News features with Channels 6 and 28
- YouTube Channel
- Economic Analysis and benefits of CVM
Future of Veterinary Medicine
Future of Veterinary Medicine

• New Horizons for Veterinary Medicine
  – Regulatory science
  – Regenerative Medicine
  – Sports Medicine
  – Global and Public Health
  – One Health Initiative
  – Animal Welfare
  – Food Animal Practice and Appalachian Service
  – Business of Veterinary Medicine – Fisher College
  – Ecosystems – biodiversity; conservation medicine

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