

Faculty Forum Departmental Spotlight

Department of Anatomical Sciences & Neurobiology

J. Pat Moore



Description and Demographics

Description of Department

- New programs
 - H.A.N.D. -Human Anatomy & Neurobiology Degree
 - Robert D. Ackland -Anatomical Sciences Ph.D. Program
 - Interdisciplinary Neuroscience Ph.D. Program in Translational Neuroscience
 - LOI for undergraduate neuroscience program
- # of Faculty: 21 primary faculty and 14 joint/ affiliate members
- # of Students: 27 PhD, 1 MD/Ph.D., 7 MS
- Chair: Dr. William Guido, Ph.D.
 - Vice Chair of Education: Jennifer Brueckner-Collins, Ph.D.
 - Vice Chair of Graduate Studies: Charles Hubscher, Ph.D.
 - Vice Chair of Research: Dr. Robin Krimm, Ph.D.
- Other Department Contacts
 - Unit Business Manager: Donna Bottorff
 - Administrative Associate: Michelle Ahlers





Department Contribution to the SOM four planning pillars

Education

- LCME curriculum reform (integrated content, Sono-Sim, faculty staffing, EPC)
- Provide instruction in the School of Medicine and Dentistry
 - Gross Anatomy, Histology, Embryology, Neuroanatomy
- Provide instruction for School of Interdisciplinary & Graduate Studies
- Provide training for the MD/PhD program
- Fully supported PhD program with a focus in Neuroscience
- Masters degree program offered in Anatomical Sciences
- 35 graduate students (27 PhD, 1 MD/Ph.D., 7 MS)
- New graduate courses
 - Fundamentals in Neuro, Development Neuro, Molecular Neuro, Synaptic Organization
- Numerous postdoctoral fellows and associates
- Charles Hubscher
 - 2015 Provost's Award Exemplary Director of Graduate Studies
- Jennifer Brueckner-Collins
 - 2014: Doyle Award for Excellence in Basic Sci. Ed., Dentistry
 - 2015: Dean's Outstanding Educator Award
 - 2016: Presidents Award for Education, SOM Deans Educator Award, Paul Weber Award Dentistry





Department Contribution to the SOM four planning pillars

Clinical Care Training

Sonography Simulation



Carotid endarterectomy
Central line
Tracheotomy
Appendectomy
Left hemicolectomy
Cholecystectomy

Leg fasciotomy
Anterior approach to hip
Anterior forearm approach
Anterior shoulder approach

Resuscitative thoracotomy

Fresh Tissue Lab

- Surgery
 - · Division of Hand Surgery
 - Division of Plastic & Reconstructive Surgery
 - Division of Otolaryngology Head & Neck Surgery
 - Division of General Surgery
 - Division of Thoracic and Cardiovascular Surgery

- · Obstetrics, Gynecology, & Women's Health
 - Division of Female Pelvic Medicine and Reconstructive Surgery
 - Division of General Obstetrics & Gynecology – Minimally Invasive Gynecologic Surgery
- Neurosurgery
- · Orthopedic Surgery
- Ophthalmology & Visual Sciences
- Anesthesiology and Perioperative Medicine





Department Contribution to the SOM four planning pillars

Research

Research Groups: Sensory Systems, Development, Neural Injury & Repair, Comparative Anatomy & Evolution



15 NIH (R01, R21, R03, F21, F32)

1 KBRIN (NIGMS)

2 KSCIRC

1 DOD

1 UK Research Foundation

1 Paralyzed American Veterans

1 Matilda Ziegler Foundation

1 Indiana State Dept. of Health

\$10,000,000.00 \$9,000,000.00 \$8,000,000.00 \$6,000,000.00 \$5,000,000.00 \$3,000,000.00 \$3,000,000.00 \$1,000,000.00 \$0,000 \$1,000,000.00 \$0,000 \$1,000,000.00 \$1,000,000.00

Total funds 2016: \$8,753,902 (Direct: \$6,605,145; Indirect: \$2,148,757)

Ashok Kumar:

2015: University Distinguished Scholar

2015: R01 Investigator Award NIAMSD (3rd R01)

2016: Finalist Presidents Award for Research

Charles Hubscher:

2015: R01 Investigator Award NICHHD

2015: KSCIRC Grant Award 2015: DOD Grant Award

Jeff Petruska

2015: R01 Investigator Award NINDS

Robin Krimm

2015: R21 Investigator Award NIDCD 2016: R01 Investigator Award NIDCD

PUBLICATIONS

2013: 27 peer review papers

2014: 34 peer review papers (Jan-Jun 2014)

Jul 2014- Sept 2015: 42 peer review papers, 1 book

Jul 2015- Sept 2016: 33 peer review papers

Bickford (5): J Neuroscience, Cell Kumar (4): Nature Communication Petruska (4) J Neuroscience, Brain

Qiu (6): J Neuroscience

Borghuis (2): Neuron, J Neuroscience (featured)

Davis: Sci Report



Department Contribution to the SOM four planning pillars

Community Engagement

- "Teach the Teachers" Summer Program
- Kentucky Science Louisville Youth Science Summit
- Kentucky Science Museum "Nano-Days"
- SPOG- Student Policy and Outreach Group
- Brain Awareness Week
- Louisville Regional Science & Engineering Fair
- duPont Manual Regional Science Fair
- Willed Body Program
- SOM Convocation of Thanks Program
- Fresh Tissue Facility

UofL Trauma Institute

Acute Care Nurse Practitioner Program

Norton Audubon

Podiatry

Jewish Hospital & St. Mary's Healthcare

Podiatry

Sullivan University

Physician Assistant Program

Academy of General Dentistry

Practicing Dentists Anatomy Review

United States Armed Forces

Ft. Knox Medics training

UofL College of Dentistry

Oral and Maxillofacial Surgery

Orthodontics





Interesting Fact about the Department

	Blue Ridge Institute for Medical Research	3754 Brevard Road Suite 116, Box 19 Horse Shoe, NC 28742	
16	UNIVERSITY OF KANSAS MEDICAL CENTER		\$8,464,939
17	JOHNS HOPKINS UNIVERSITY		\$8,401,986
18	EMORY UNIVERSITY		\$7,283,812
19	UNIVERSITY OF WISCONSIN-MADISON		\$6,645,398
20	UNIVERSITY OF LOUISVILLE		\$6,635,787
	WASHINGTON UNIVERSITY		\$6,613,495
22	UNIVERSITY OF ARIZONA		\$6,611,940
23	UNIVERSITY OF HAWAII AT MANOA		\$6,538,442
24	DREXEL UNIVERSITY		\$6,167,497
25	UNIVERSITY OF WASHINGTON		\$4,915,673
26	UNIVERSITY OF CALIFORNIA-IRVINE		\$4,798,684
27	UNIVERSITY OF MARYLAND BALTIMORE		\$4,682,615
28	UNIVERSITY OF CINCINNATI		\$4,674,477
29	UNIVERSITY OF VIRGINIA		\$4,573,693

10 year Program Review KY Council of Postsecondary Education "Gold Standard"

