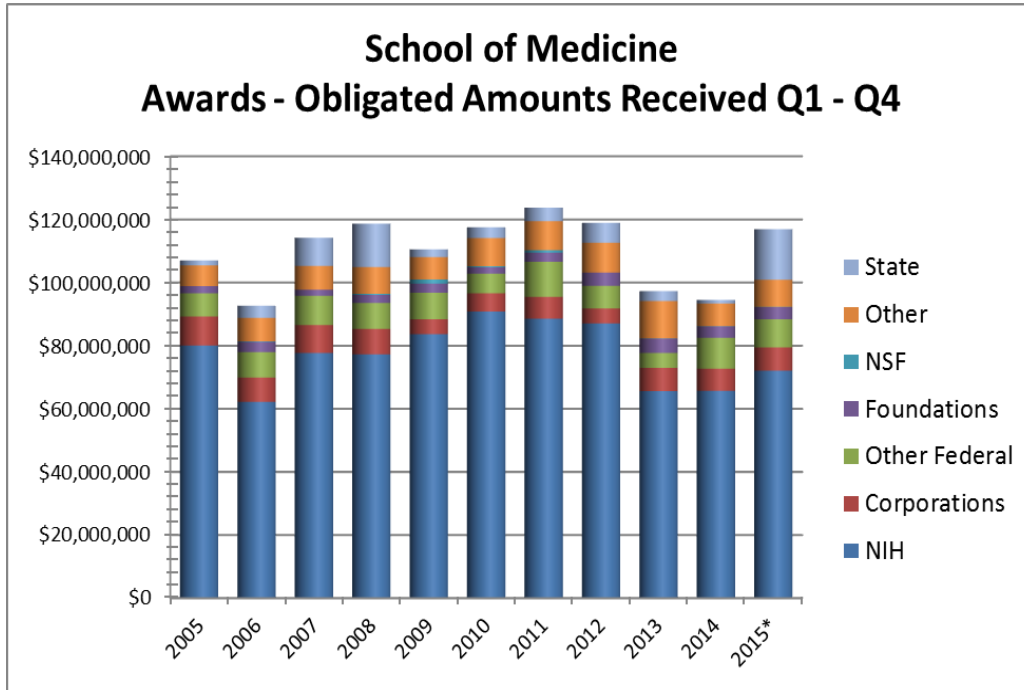


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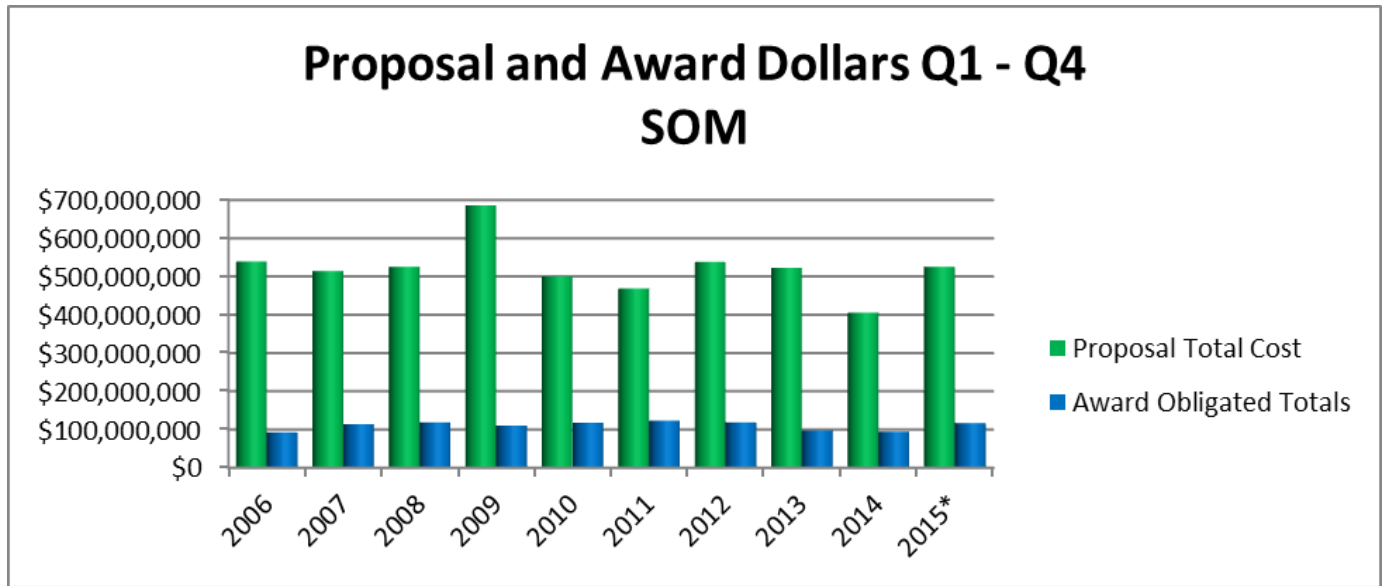
STEPHEN M. LANIER, PH.D.  
 VICE PRESIDENT FOR RESEARCH  
 SPECIAL RESEARCH REPORT ON  
 SCHOOL OF MEDICINE



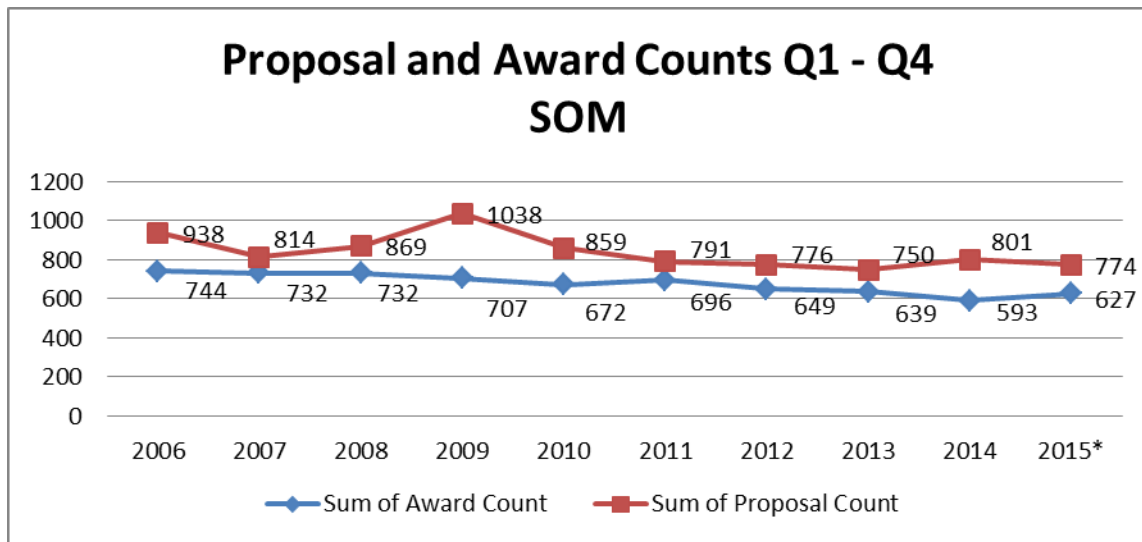
Obligated	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015*
NSF	\$53,856	\$200,000		\$392,179	\$1,364,429	\$377,879	\$806,797		\$30,411	\$76,622	\$74,738
State	\$1,622,429	\$3,860,879	\$8,898,279	\$13,742,025	\$2,468,071	\$3,386,332	\$4,327,549	\$6,266,004	\$3,108,814	\$1,106,524	\$16,063,342
Foundations	\$2,236,968	\$3,245,765	\$1,907,267	\$2,495,166	\$2,827,122	\$2,003,472	\$2,812,201	\$4,239,398	\$4,586,973	\$3,549,945	\$3,879,000
Corporations	\$9,228,814	\$7,723,104	\$8,840,457	\$8,007,971	\$4,686,025	\$5,781,583	\$6,865,492	\$4,684,566	\$7,345,083	\$7,058,517	\$7,331,757
Other	\$6,533,588	\$7,433,737	\$7,565,264	\$8,466,465	\$7,039,596	\$8,882,853	\$9,216,417	\$9,472,982	\$11,848,311	\$7,212,518	\$8,520,052
Other Federal	\$7,343,966	\$8,005,371	\$9,317,036	\$8,285,294	\$8,461,262	\$6,206,145	\$11,186,298	\$7,182,985	\$4,749,803	\$9,787,183	\$8,939,032
NIH	\$80,039,824	\$62,197,376	\$77,663,546	\$77,287,693	\$83,664,432	\$90,852,914	\$88,573,045	\$87,068,572	\$65,599,777	\$65,680,152	\$72,115,640
Grand Total	\$107,059,445	\$92,666,232	\$114,191,850	\$118,676,794	\$110,510,937	\$117,491,178	\$123,787,799	\$118,914,508	\$97,269,172	\$94,471,462	\$116,923,561

\*Fiscal Year 2015 award data reflects a change in the methodology used to capture clinical trial awards.

**RESEARCH PROPOSALS SUBMITTED COMPARED TO RESEARCH AWARDS**

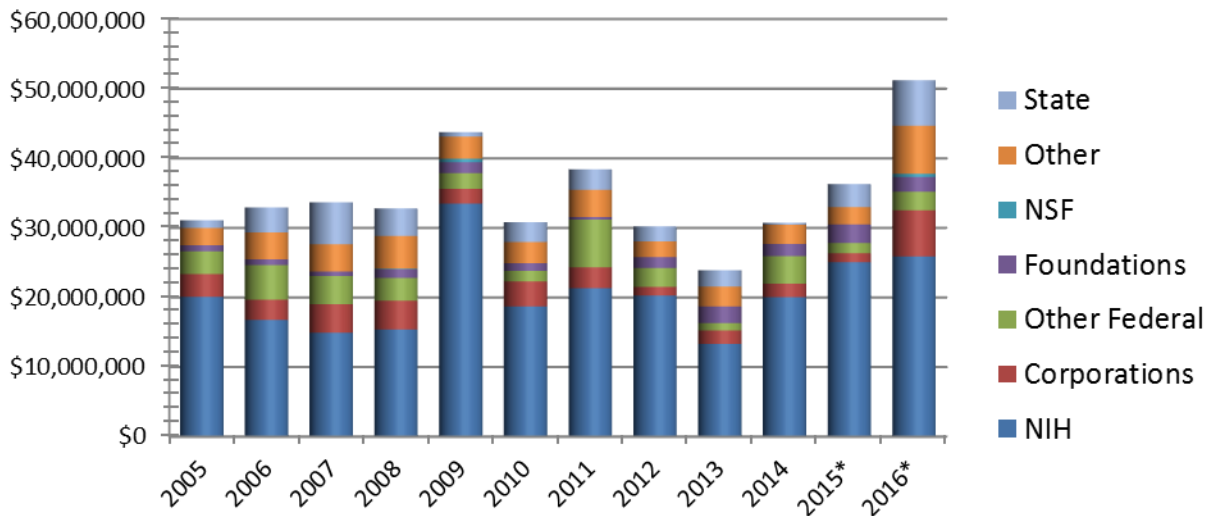


Dollars	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015*
Award Obligated Totals	\$92,666,232	\$114,191,850	\$118,676,794	\$110,510,937	\$117,491,178	\$123,787,799	\$118,914,508	\$97,269,172	\$94,471,462	\$116,923,561
Proposal Total Cost	\$538,789,523	\$513,714,966	\$525,672,340	\$686,240,666	\$500,614,693	\$468,544,820	\$538,071,903	\$522,875,380	\$405,754,147	\$524,870,276



*\*Fiscal Year 2015 award data reflects a change in the methodology used to capture clinical trial awards.*

## School of Medicine Awards - Obligated Amounts Received October Through February (5 months)



Obligated	FY											
Sponsor Type (Using Prime if Applicable)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015*	2016*
NSF				\$99,999	\$484,570							\$483,454
State	\$1,094,694	\$3,621,589	\$6,035,669	\$3,933,225	\$636,724	\$2,853,128	\$2,981,240	\$2,162,124	\$2,329,302	\$272,454	\$3,281,358	\$6,543,546
Foundations	\$873,239	\$831,859	\$651,792	\$1,226,018	\$1,590,539	\$1,109,799	\$379,128	\$1,590,844	\$2,397,339	\$1,775,537	\$2,642,119	\$2,091,650
Corporations	\$3,257,568	\$2,882,498	\$4,083,436	\$4,126,478	\$2,117,546	\$3,590,091	\$2,994,194	\$1,225,473	\$1,961,167	\$1,907,885	\$1,325,376	\$6,647,136
Other	\$2,493,632	\$3,836,074	\$3,887,555	\$4,697,340	\$3,205,499	\$3,039,389	\$3,902,302	\$2,253,973	\$2,866,236	\$2,751,551	\$2,516,761	\$6,901,079
Other Federal	\$3,291,150	\$4,993,912	\$4,070,509	\$3,291,665	\$2,253,760	\$1,486,502	\$6,846,127	\$2,712,600	\$1,047,206	\$3,963,662	\$1,472,102	\$2,665,068
NIH	\$20,088,535	\$16,781,082	\$14,946,131	\$15,409,254	\$33,477,747	\$18,724,685	\$21,332,772	\$20,290,020	\$13,312,833	\$20,065,232	\$25,049,021	\$25,897,835
Grand Total	\$31,098,817	\$32,947,014	\$33,675,092	\$32,783,979	\$43,766,385	\$30,803,593	\$38,435,762	\$30,235,034	\$23,914,083	\$30,736,320	\$36,286,738	\$51,229,768

\*Fiscal Year 2015 award data reflects a change in the methodology used to capture clinical trial awards.

**EXAMPLES OF RECENT MAJOR RESEARCH AWARDS  
RECEIVED BY WSU SCHOOL OF MEDICINE FACULTY**

**Name:** Jiemei Wang  
**Department:** Center for Molecular Medicine & Genetics  
**Award Title:** Role of Inositol Requiring Enzyme 1 in Regulating Angiogenesis for Diabetic Wound Repair  
**Sponsor:** National Institute of Diabetes, Digestive & Kidney Diseases of the NIH  
**Award Period:** 3/1/2016 – 2/28/2021  
**Anticipated Total:** \$1,702,343

**Name:** Susan Eggly  
**Department:** Department of Oncology  
**Award Title:** A Multilevel Intervention to Increase the Participation of African Americans in Prostate Cancer Clinical Trials  
**Sponsor:** National Cancer Institute  
**Award Period:** 1/19/2016 – 12/31/2020  
**Anticipated Total:** \$2,964,603

**Name:** Maik Huttemann  
**Department:** Center for Molecular Medicine & Genetics  
**Award Title:** Limiting brain reperfusion injury by controlling mitochondrial function  
**Sponsor:** National Institute of Neurological Disorders and Stroke  
**Award Period:** 9/30/2015 – 6/30/2019  
**Anticipated Total:** \$1,345,038

**Name:** Jinsheng Zhang  
**Department:** Department of Otolaryngology  
**Award Title:** Targeting TNF-alpha for Treatment of Blast-Induced Tinnitus  
**Sponsor:** U.S. Department of Defense  
**Award Period:** 9/30/2015 – 9/29/2018  
**Anticipated Total:** \$1,041,457

**Name:** Prashant Mahajan  
**Department:** Department of Pediatrics  
**Award Title:** RNA Biosignatures: A Paradigm Change for the Management of Young Febrile Infants  
**Sponsor:** National Institute of Child Health and Human Development of the NIH  
**Award Period:** 8/21/2015 – 4/30/2020  
**Anticipated Total:** \$5,769,699

**Name:** Sandra Jacobson  
**Department:** Department of Psychiatry  
**Award Title:** Behavioral Characteristics and Neural Correlates of Reading Impairment in FASD  
**Sponsor:** National Institute on Alcohol Abuse and Alcoholism  
**Award Period:** 8/10/2015 – 7/31/2020  
**Anticipated Total:** \$1,620,297

**Name:** Angulique Outlaw  
**Department:** Department of Pediatrics  
**Award Title:** Motivational Enhancement System for Adherence (MESA) for Youth Starting ART

**Sponsor:** National Institute of Mental Health of the NIH  
**Award Period:** 8/1/2015 – 4/30/2020  
**Anticipated Total:** \$2,813,111

**Name:** Elizabeth Puscheck  
**Department:** Department of Obstetrics & Gynecology  
**Award Title:** Continuation of Wayne State University's Successful Development of Physician-Scientists as Independent Researchers in the Area of Women's Reproductive Health

**Sponsor:** National Institute of Child Health and Human Development of the NIH  
**Award Period:** 7/17/2015 – 6/30/2020  
**Anticipated Total:** \$1,360,801

**Name:** James Granneman  
**Department:** Center for Molecular Medicine & Genetics  
**Award Title:** Preclinical Validation of ABHD5 as a Target for Treatment of Obesity  
**Sponsor:** National Institute of Diabetes, Digestive & Kidney Diseases of the NIH  
**Award Period:** 7/1/2015 – 6/30/2019  
**Anticipated Total:** \$2,724,892

**Name:** David Rosenberg  
**Department:** Department of Psychiatry  
**Award Title:** 1/3 Brain Function and Genetics in Pediatric Obsessive-Compulsive Behaviors  
**Sponsor:** National Institute of Mental Health  
**Award Period:** 7/1/2015 – 4/30/2020  
**Anticipated Total:** \$1,961,190

**Name:** Sascha Drewlow  
**Department:** Department of Obstetrics & Gynecology  
**Award Title:** The Role of PPAR $\gamma$  in Human Placental Development and Preeclampsia  
**Sponsor:** National Heart, Lung & Blood Institute of the NIH  
**Award Period:** 7/1/2015 – 3/31/2020  
**Anticipated Total:** \$1,920,938

**Name:** Chunying Li  
**Department:** Department of Biochemistry  
**Award Title:** Chemokine Signaling in EPC Angiogenesis: A Role of Lysine Methylation  
**Sponsor:** National Heart, Lung and Blood Institute of the NIH  
**Award Period:** 7/1/2015 – 4/30/2015  
**Anticipated Total:** \$1,914,122

**Name:** Patrick Mueller  
**Department:** Department of Physiology  
**Award Title:** Inactivity and Enhanced Sympathoexcitation: Role of Neuroplasticity in the RVLM  
**Sponsor:** National Heart, Lung and Blood Institute of the NIH  
**Award Period:** 7/1/2015 – 3/31/2019  
**Anticipated Total:** \$1,536,371

## NEW SCHOOL OF MEDICINE FACULTY 2014 – 2016

Name	Year Hired	Title	Department	Research Focus
Agarwal, Prashant	2015	Assistant Professor - Clinical	Pediatrics	
Agarwal, Rajkumar	2015	Assistant Professor - Clinical	Pediatrics	Neurogenetic and metabolic disorders, epilepsy, headache
Agarwal, Roshani	2015	Assistant Professor - Clinical	Pediatrics	
Almufarrej, Faisal	2015	Assistant Professor - Clinical	Surgery	
Applefield, Daniel J.	2014	Assistant Professor - Clinical	Anesthesiology	
Arora, Prem	2014	Assistant Professor - Clinical	Pediatrics	
Bauerfeld, Christian P.	2014	Assistant Professor - Clinical	Pediatrics	
Brennan, Erin E.	2015	Associate Professor - Clinical	Emergency Medicine	
Brody, Aaron M.	2015	Assistant Professor - Clinical	Emergency Medicine	
Bykhovskaia, Maria	2015	Professor	Neurology	Synaptic vesicle cycling and plasticity
Chauhan, Monika	2014	Assistant Professor - Clinical	Pediatrics	Critical care
Chung, Charles S.	2015	Assistant Professor	Physiology	Cardiac Physiology, Diastolic Function, Biomechanics and Biophysics, Ultrasound
Condon, Jennifer C.	2014	Associate Professor	Obstetrics/Gynecology	Molecular mechanisms that regulate gestational length
Cook, Tiffany A.	2015	Associate Professor	Center Molecular	Molecular basis of eye

			Medicine/Genetics	development and disease
Dijkers, Marcellinus P. M.	2015	Professor	Physical Medicine & Rehab at DMC	
Han, Yumi	2014	Assistant Professor - Research	Perinatology Research	
Haridas, Abilash	2014	Assistant Professor - Clinical	Neurosurgery	Cerebrovascular, skull base, endoscopic, and epilepsy surgery
Harris, Carolyn A.	2014	Assistant Professor	Neurosurgery	Hydrocephalus, bioengineering strategies that could improve treatment
Hastert, Theresa A.	2014	Assistant Professor	Oncology	Epidemiology
Jain, Amrish	2014	Assistant Professor - Clinical	Pediatrics	Nephrology
Javanbakht, Arash	2015	Assistant Professor	Psychiatry	Clinical electrophysiology
Johnson, Aimee M.	2015	Assistant Professor - Clinical	Pediatrics	
Jowkar, Abbas A.	2015	Assistant Professor - Clinical	Neurology	Epilepsy, cerebrovascular neurology
Kaya, Jennifer M.	2015	Assistant Professor - Clinical	Internal Medicine	Pulmonary and critical care
Kidder, Benjamin L.	2015	Assistant Professor	Oncology	Stem cell epigenetics, transcriptional networks, genome stability
Kim, Johnstone M.	2014	Assistant Professor - Clinical	Ophthalmology	
Kim, Sun Kwon	2015	Associate Professor - Clinical	Obstetrics/Gynecology	Maternal-fetal medicine
Kobayashi, Daisuke	2015	Assistant Professor - Clinical	Pediatrics	Public health
Kothari, Lara G.	2014	Assistant Professor - Clinical	Pediatrics	

Krishnan, Sandeep H.	2014	Assistant Professor - Clinical	Anesthesiology	
Kumar, Vijaya A.	2014	Assistant Professor - Clinical	Emergency Medicine	
Martin, Alissa M.	2014	Assistant Professor - Clinical	Pediatrics	Hematology and oncology
Mayerhoff, Ross M.	2015	Assistant Professor - Clinical	Otolaryngology	Patient safety and quality improvement, the nature and management of vocal fold paralysis
Messman, Anne M.	2015	Assistant Professor - Clinical	Emergency Medicine	
Mohamed, Wazim	2014	Assistant Professor - Clinical	Neurology	Prediction models for traumatic brain injury, critical care ultrasonography and multi modality monitoring in neurocritical care
Nabavighadi, Kaveh A.	2015	Assistant Professor - Clinical	Anesthesiology	
Nayak, Nihar R.	2014	Associate Professor	Obstetrics/Gynecology	Mechanisms of vascular development and remodeling during implantation and pregnancy
Pancharatnam, Jeyasuria	2014	Assistant Professor	Obstetrics/Gynecology	Reproductive endocrinology and physiology
Patrick, Stephan M.	2014	Associate Professor	Oncology	Understanding how cancer cells respond to chemotherapy, including the pathways that are critical for maintaining drug sensitivity
Paximadis, Peter A.	2015	Assistant Professor - Clinical	Radiation Oncology	Gastrointestinal cancer and genitourinary malignancies
Paxton, James H.	2015	Asst Prof (Clinical Scholar)	Emergency Medicine	Trauma resuscitation, Intraosseous vascular access techniques, Sepsis, Medical



				Errors and Cost-effective medicine
Riddle-Jones, Latonya A.	2015	Assistant Professor - Clinical	Internal Medicine	
Sanil, Yamuna	2014	Assistant Professor - Clinical	Pediatrics	
Seraji-Bozorgzad, Navid	2014	Assistant Professor - Clinical	Neurology	Brain imaging in injury and repair. Network models of brain function.
Shabana, Rehab M.	2015	Assistant Professor - Clinical	Obstetrics/Gynecology	
Shankar, Lakshmi	2014	Assistant Professor - Clinical	Neurology	Intracranial vasculopathy, Post Stroke Depression, TCD.
Snabb, Lauren G.	2015	Assistant Professor - Clinical	Pediatrics	
Sonuyi, Tolulope O.	2015	Asst Prof (Clinical Scholar)	Emergency Medicine	
Steinle, Jena J.	2015	Professor	Anatomy	Diabetic Retinopathy, Vascular Biology of Ocular Cancers
Suvas, Susmit	2014	Associate Professor	Anatomy	
Taha, Doris	2014	Associate Professor - Clinical	Pediatrics	
Theis, Kevin R.	2015	Assistant Professor	Immunology & Microbiology	Identifying and managing polymicrobial causes of preterm birth and Elucidating how the microbiome shapes animal behavior, and vice versa
Vasin, Alexander L.	2016	Assistant Professor - Research	Neurology	
Vinch, Jennifer A.	2015	Assistant Professor - Clinical	Psychiatry	

Viola-Villegas, Nerissa T.	2014	Assistant Professor	Oncology	Image-guided surgery through labeled fluorescent and PET imaging probes
Wang, Jiemei	2014	Assistant Professor - Research	Center Molecular Medicine/Genetics	Endothelial dysfunction, microRNA regulatory network in tissue repair and regeneration, endoplasmic reticulum and oxidative stress in metabolic disorders
Warnick, Stephen J.	2015	Assistant Professor - Clinical	Psychiatry	
Wessells, Robert J.	2014	Assistant Professor	Physiology	Understanding the molecular genetic mechanisms that underlie the benefits of exercise
Wilkinson, James D.	2014	Professor	Pediatrics	
Williams, Mitchel T.	2014	Assistant Professor - Clinical	Pediatrics	Pediatric Demyelinating and inflammatory disorders including Multiple sclerosis
Winer, Ira S.	2015	Asst Prof (Clinical Scholar)	Oncology	
Zeineddine, Salam	2015	Assistant Professor - Clinical	Internal Medicine	
Zhang, Xiaohong	2015	Associate Professor	Oncology	Pathogenesis of human cancers and identification of biomarkers for cancer prevention, early diagnosis and treatment
Zhuang, Ling	2014	Assistant Professor	Radiation Oncology	Motion management, computer graphics/vision, medical image analysis and visualization