

*University of Pittsburgh*  
*School of Medicine*

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**SCHOLARS DAY**  
**CLASS OF 2014**  
**WEDNESDAY, APRIL 2, 2014**

**SCHOLARLY PROJECTS**  
**MENTOR AND STUDENT AWARDS**  
**STUDENT PUBLICATIONS**  
**STUDENT NATIONAL, STATE, AND LOCAL AWARDS**

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## SCHOLARLY PROJECTS 2014

<b>STUDENT</b>	<b>PROJECT TITLE</b>	<b>MENTOR</b>	<b>AFFILIATION</b>
Adams, Carson	Exercise and severity of anorexia nervosa	Jennifer Wildes, PhD	Psychiatry
Agudelo, Christian	Age-dependent decline in axonal regeneration after spinal cord injury in zebrafish	Samay Jain, MD	Physical Medicine and Rehabilitation
An, Amy	Science learning activation in science-focused summer programs	Michael Lotze, MD	Surgery
Asencio, Jessica	Tranexamic acid for the reduction of allogeneic transfusion requirements in infants and children having craniofacial surgery	Franklyn Cladis, MD	Anesthesiology
Ashley, Blair	Impact of a continuous quality improvement initiative for difficult airway management on the morbidity and mortality of patients with difficult airways	Joseph Darby, MD	Critical Care Medicine
Badlani, Jayshiv (CSTP)	Effects of meniscus injury on the development and progression of knee osteoarthritis	James Irrgang, PhD	Orthopaedic Surgery
Bartels, Christian	The role of Interleukin 23 in liver ischemia-reperfusion injury	David Geller, MD	Surgery
Berhane, Hebist	Investigating the radioprotective nature of JP4-039 on human foreskin cell lines isolated from patients with Fanconi anemia and establish the drugs mechanism of action	Joel Greenberger, MD	Radiation Oncology
Benkoski, Emmanuelle	Identifying trauma patients with high risk of PE for optimal IVC filter placement	Jason Sperry, MD	Surgery
Bodily, Lance	Comparison of the efficacy of somatosensory evoked potentials (SSEP) alone to SSEP and motor evoked potentials (MEP) in instrumented pediatric scoliosis procedures	Parthasarathy Thirumala, MD	Neurological Surgery

## SCHOLARLY PROJECTS 2014

<b>STUDENT</b>	<b>PROJECT TITLE</b>	<b>MENTOR</b>	<b>AFFILIATION</b>
Byrne, Raphael	Contemporary outcomes of endovascular interventions for acute arterial limb ischemia(VWD)	Rabih Chaer, MD	Surgery
Cabello, Ricardo	Percutaneous Epiphysiodesis using transphyseal screws (PETS): a retrospective study and review	Lloydine Jacobs, MD	Orthopaedic Surgery
Chen, Hui-Wei	Hepatocellular carcinoma in nonalcoholic fatty liver disease	Allan Tsung, MD	Surgery
Cheng, Yaolin	The effect of full body skin exams on prognosis of melanoma	Laura Ferris, MD, PhD	Dermatology
Chivukula, Srinivas	Alemtuzumab induction in Orthotopic Heart Transplantation: A single center analysis of cancer and survival	Robert Kormos, MD	Surgery
Christensen, Tyson	Incidence, treatment, and risk factors for outcomes of infections of megaprotheses	Richard McGough III, MD	Orthopaedic Surgery
Chung, Christopher	VEGF microsphere technology for soft tissue reconstruction	Kacey Marra, PhD	Plastic Surgery
Collins, Mary-Katharine	ECompliance of women on isotretinoin with contraceptive guidelines	Laura Ferris, MD, PhD	Dermatology
Dave, Shravan	Evaluating the management of supraglottic airways in trauma patients	Raquel Forsythe, MD	Surgery
Denq, William	The pharmacodynamic effects of neoadjuvant combined therapy, erlotinib and sulindac, versus neoadjuvant monotherapy, erlotinib, on cellular biomarkers in HNSCC patients	Jennifer Grandis, MD	Otolaryngology
Dreifuss, Stephanie	Prevalence of endogenous CD34+ adipose stem cells predicts human fat graft retention in a xenograft model	Joseph Rubin, MD	Plastic Surgery
Durkin, John	Imaging of Mohs Micrographic Surgery Specimens using optical coherence tomography	Chakra Chennubhotla, PhD	Computational and Systems Biology

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Ebdlahad, Sommer	Sleep following combat exposure: A neuroimaging study comparing veterans with and without posttraumatic stress disorder	Anne Germain, PhD	Psychiatry
<del>Emelife, Patrick</del>	<del>Aesthetic outcomes, patient satisfaction, and clinical determinants of patient satisfaction after nipple-areola reconstruction</del>	<del>Carolyn De-La-Cruz, MD</del>	<del>Plastic Surgery</del>
Faber, Nicholas	Comprehensive screening protocol for methicillin-resistant staphylococcus aureus sensitive staphylococcus aureus in the spine	Brian Klatt, MD	Orthopaedic Surgery
Flynn, Sean	Assessing the educational value of screen based simulations for USMLE Step 1 pharmacology taphylococcus aureus in the spine	Bill McIvor, MD	Anesthesiology
Gande, Abhiram	Identification of risk factors for progression of asymptomatic, radiographic osteoarthritis to symptomatic osteoarthritis over four years	James Irrgang, PhD	Orthopaedic Surgery
Gary, Brittany	Role of white matter hyperintensities in bladder control and urge urination incontinence in order women	Stasa Tadic, MD	Medicine
Gelman, Amanda	Racial disparities in awareness of HPV and HPV vaccine uptake	Sonya Borrero, MD	Medicine
Gentile, Natalie	Targeted rehabilitation following extracellular Matrix Scaffold Transplantation in patients with volumetric muscle loss	Fabrisia Ambrosio, PhD	Physical Medicine and Rehabilitation
Go, Catherine	The role of CO in preventing AAA formation and rupture	Edith Tzeng, MD	Surgery
Goldring, Sandra	Investigating sexually transmitted infections in Allegheny County: Identifying associated socioeconomic factors	Harold Wiesenfeld, MD	Obstetrics and Gynecology

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Greenberg, Jesse	T2-weighted breath-hold fast recovery Fast Spin-Echo MR imaging before and after Gadolinium BOPTA: a comparison of Liver Lesion Conspicuity	Angelo Luca, MD	Surgery
Hartog, Rebecca	An asset-based approach to youth risk assessment	Elizabeth Miller, MD, PhD	Pediatrics
Hempen, Eric	The effect of glucosamine on matrix homeostasis in acute and chronic Inflammatory nucleus pulposus cells	Gwendolyn Sowa, MD, PhD	Physical Medicine and Rehabilitation
Hu, An-Qi (PSTP)	shRNA inhibition of cancer stem cells	Edward Prochownik, MD, PhD	Pediatrics
Insetta, Emily	Victims of intimate partner violence as mothers: A qualitative study of mother-child communication about violence and relationships	Judy Chang, MD	Obstetrics and Gynecology
Jackson, Kyle (CSTP)	Posttransplant lymphoproliferative disorder after pancreas transplantation: A UNOS database analysis	Ron Shapiro, MD	Surgery
James, Isaac	Outcomes of locking plate fixation for combined fractures of the proximal humerus and humeral shaft	Ivan Tarkin, MD	Orthopaedic Surgery
Janofsky, Stephen	Nutrition attitudes and food choices among adolescents in a community garden program	Michael Yonas, PhD	Family Medicine
Jenabi, Isaac	Asthma and obstructive sleep apnea: A retrospective comparison of asthmatic children undergoing adenotonsillectomy	Todd Otteson, MD	Otolaryngology
Joel, Ian	Dynamic prediction of treatment response in late-life depression	Charles Reynolds, III, MD	Psychiatry
John, Liny	The use of extracorporeal membrane oxygenation on patients with severe Acute Respiratory Distress Syndrome	Christian Bermudez, MD	Surgery

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Johnson, Paul (PSTP)	A novel endoscopic grasper with haptic feedback for measurement of tissue stiffness	Umamaheswar Duvvuri, MD, PhD	Otolaryngology
Jones, Amy	Racial and ethnic disparities in the utilization of imaging for pediatric abdominal pain	Jennifer Marin, MD	Pediatrics
Joshi, Aditya	Characterization of stem cell chemotactic receptors responding to matricryptic peptides	Stephen Badylak, MD, PhD	Surgery
Kauffman, Jeremy	Metagenomic analysis of intestinal viruses in infants with Necrotizing Enterocolitis	Michael Morowitz, MD	Surgery
Khandai, Abhisek	A restricted subset of the bed nucleus of stria terminalis projects to the medial parvicellular nucleus of hypothalamus	Pat Card, PhD	Neuroscience
Kiyatkin, Michael	TRPV1 and P2X3 interaction in colorectal primary afferent neurons and their joint contribution to mechanosensation, nociception, and hypersensitivity: A model for indirect mechanosensation and mechanosensory protein complexes	David Hackam, MD, PhD	Surgery
Koh, Duane	Measuring changes in pain sensitivity throughout postpartum periods	Inna Belfer, MD, PhD	Anesthesiology
Kolia, Nadeem	Association of FDG-PET SUV and HPV Positive HNSCC	Jennifer Grandis, MD	Otolaryngology
Kowalski, Adam	Formation of decubitus ulcers in trauma patients undergoing spinal immobilization	Adam Frisch, MD	Emergency Medicine
Kwon, Carolyn	Use of virtual patient simulation in pharmacology workshop	Donald Defranco, PhD	Pharmacology and Bio Chemistry
Laderian, Bahar	Role of O-3 polyunsaturated fatty acids in lowering chronic inflammation	Matthew Muldoon, MD	Medicine

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
LaRossa, Peter	Using a screen-based simulation tool to create an expert-validated solution to a mannequin-based simulation of an uncal herniation	Bill McIvor, MD	Anesthesiology
Lee, Elizabeth	TLR4 signaling negatively regulates the intestinal microvascular response in the pathogenesis of Necrotizing Enterocolitis	David Hackam, MD, PhD	Surgery
Lee, Michael	Diagnostic peritoneal lavage (DPL) facilitates diagnosis and treatment of acute abdominal pathology in ICU patients	Matthew Rosengart, MD	Surgery
Leonardis, Rachel	Understanding and optimizing management of obstructive sleep apnea in infants	Todd Otteson, MD	Otolaryngology
Levine, Alison	Restorative yoga for breast cancer survivors with poor quality of life	Judith Balk, MD	Obstetrics and Gynecology
Li, Annabel	Patient perceptions of radiation exposure from medical imaging	Michael Reppinger, MD	University of Wisconsin, Emergency Medicine
Li, Shen	Robotic liver resection--a comparison with laparoscopic and open techniques	Allan Tsung, MD	Surgery
Li, Simiao (CSTP)	Retinal Hemorrhages in low-risk children evaluated for physical abuse	Judy Chang, MD	Obstetrics and Gynecology
Liggon, Michael	Intervertebral disc ECM balance in response to inflammatory stimulus, mechanical stress, and chondroitin supplementation	Gwendolyn Sowa, MD, PhD	Physical Medicine and Rehabilitation
Lin, Kathie	Comparing Single Photon Emission Computed Tomography (SPECT) myocardial perfusion imaging and contrast enhanced Cardiac Magnetic Resonance (CMR) in identifying myocardial infarction	Timothy Wong, MD	Medicine



## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Ling, Jennifer	Skin as a potential source of uric acid and oxidative stress in women with preeclampsia	James Roberts, MD	Obstetrics and Gynecology
Lopez, Carlos	Does autophagy regulate IL-1 family cytokine production by human dendritic cells?	Michael Lotze, MD	Surgery
Lord, Christopher (PSTP)	The role of Fc gamma receptor IIIa polymorphisms in cetuximab-mediated induction of tumor antigen-specific T cells in head and neck cancer patients	Robert Ferris, MD, PhD	Otolaryngology
Lu, Amy	Genetic polymorphisms of depression and its associated symptoms in post-liver transplant patients	Andrea Di Martini, MD	Psychiatry
Lu, Annie	The rhetoric of life-sustaining treatment decisions: a simulation study	Deepika Mohan, MD	Critical Care Medicine
Ludwig, Daniel (PSTP)	Development of magnetic resonance imaging to identify conduction dyssynchrony in the presence of left ventricular scar	David Schwartzman, MD	Medicine
Luo, Jing	T1 hyper-intense lesions on eovist-enhanced dynamic MRI in patients with chronic liver diseases	Keyanoosh Hosseinzadeh, MD	Radiology
Mah, Jennifer	Associations between waterpipe tobacco smoking, ethnicity and religiosity among University of Florida students	Brian Primack, MD	Family Medicine
Manners, Jody	Positive and negative reinforcement learning in patients with mild to moderate Parkinson's Disease while on and off medication: a comparison of dopaminergic replacement therapies	Julie Fiez, PhD	Psychology
Marino, Ryan	TLR4-mediated PUMA molecular signaling events in intestinal epithelial cells	David Hackam, MD, PhD	Surgery

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Martin, Sarah	Insulin resistance, hyperuricemia and elevated RBP4 as predictors of the development of preeclampsia in obese pregnant women	Robert Powers, PhD	Obstetrics and Gynecology
McAnaney, Cara	Rectal-sexually transmitted infections in anal dysplasia clinic	Ross Cranston, MD	Medicine
McGovern, Jonathan	Neuropsychiatric predictors of surgical outcome in older adults with low back pain	Jordan Karp, MD	Psychiatry
Mendez, Juan	Renal and infectious outcomes in kidney transplant using high infectious risk donor organs in UPMC	Ron Shapiro, MD	Surgery
Michaelidis, Constantino (CSTP)	Cost-effectiveness of procalcitonin-guided antibiotic therapy for outpatient management of acute respiratory tract infections in adults	Kenneth Smith, MD	Medicine
Michaelsen, Kaarin	Playing Doctors: Performance as Professional Critique Among Female British Medical Students, 1875-1928	Jonathon Erlen, PhD	Health Sciences Library System
Miller, David	The role of neutrophil extracellular traps in hepatic ischemia/reperfusion injury	Allan Tsung, MD	Surgery
Miller, Thomas	Early detection of delirium in emergency department patients	Brian Suffoletto, MD	Emergency Medicine
Miller, Weldon	Resource utilization and the HIT-6 score in migraine patients	Robert Kaniecki, MD	Neurology
Mohanty, Sudipta	Self-management support for diabetes patients at the Birmingham Free Clinic	Diemthuy Bui, MD	Medicine
Moreau, Jacqueline (CSTP)	Improving early detection of melanoma	Laura Ferris, MD, PhD	Dermatology
Morton, Jessica	Using markers of immune activation to assess the effects of early antiretroviral therapy in newly diagnosed HIV patients	Bernard Macatangay, MD	Medicine

## SCHOLARLY PROJECTS 2014

<b>STUDENT</b>	<b>PROJECT TITLE</b>	<b>MENTOR</b>	<b>AFFILIATION</b>
Nag, Uttara	Use of ECMO (Extracorporeal Membrane Oxygenation) in severe lung injury associated with trauma	Christian Bermudez, MD	Surgery
Nambu, Hiroya	Validation of age, creatinine, ejection fraction score as a risk assessment tool in patients undergoing stent implantation during percutaneous coronary intervention. A report from the dynamic registry of the National Heart, Lung, and Blood Institute.	Oscar Marroquin, MD	Medicine
Nega, Mahlet	The roles of gender, race, and ethnicity in medical career decision making	Chenits Pettigrew, PhD	Medicine
Neral, Mithun	Retrospective and prospective review of silicone arthroplasty for finger metacarpophalangeal osteoarthritis	Joseph Imbriglia, MD	Orthopaedic Surgery
Nuffer, Zachary	Quantitative structure-activity relationships of functionally selective 5-HT <sub>2A</sub> receptor agonists	Guillermo Romero, PhD	Pharmacology and Chemical Biology
Nwasike, Chinedu (PSTP)	Dihydrotestosterone and its interaction with Endothelin-1 in heart failure	Hunter Champion, MD, PhD	Medicine
Paoletti, Gabrielle	Severe iron deficiency anemia still an issue in toddlers	Debra Bogen, MD	Pediatrics
Parikh, Sneha	Bedside ultrasound for measurement of the therapeutic effect of volume removal in the acute inpatient setting	John Pacella, MD	Emergency Medicine
Parris, James	The role of innervation in tumor growth and development	Michael Shurin, MD, PhD	Pathology
Parris, Ritika	The role of oligodendrocytes in axonal regeneration	Edward Burton, MD	Neurology

## SCHOLARLY PROJECTS 2014

<b>STUDENT</b>	<b>PROJECT TITLE</b>	<b>MENTOR</b>	<b>AFFILIATION</b>
Patel, Agam	Long-term outcomes of gamma knife radiosurgery for benign intracranial tumors	Douglas Kondziolka, MD	Neurological Surgery
Patel, Divyang	Relaxin suppresses Atrial Fibrillation (AF) in aged Spontaneously Hypertensive Rats (SHR)	Guy Salama, PhD	Medicine
Patel, Kunal	Beneficial and synergistic leptin and insulin signaling in myocardial infarction	Kenneth McGaffin, MD	Medicine
Raghu, Vikram	The effect of generic substitution of tacrolimus in liver and kidney transplant recipients	Raman Venkataramanan, PhD	Pathology
Riera, Katherine	Relationship between insufficient vitamin D levels and asthma control in asthmatic children in Pittsburgh	Erick Forno, MD	Pulmonology
Rosenbaum, Alan	Patient acceptability of self-sampling versus provider-collected sampling for HPV DNA testing in El Salvador	Miriam Cremer, MD	Obstetrics and Gynecology
Ross, Anthony	A mobile phone text-message program to improve oral antibiotic adherents in patients discharged from the Emergency Department	Brian Suffoletto, MD	Emergency Medicine
Rossiter, Brianna	Assessment of breastfeeding on maternal BMI and blood pressure in overweight and obese women	Janet Catov, PhD	Obstetrics and Gynecology
Schwen, Zeyad	An assessment of therapeutic intervention on stone urinary biochemical risk factors for patients with symptomatic nephrolithiasis	Timothy Averch, MD	Urology

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Shine, Kristy (PSTP)	Effects of human donor age on mesenchymal stem cell migration and adhesion in vitro	Rocky Tuan, PhD	Orthopaedic Surgery
Siebert, Paul	Differential signaling in liver cirrhosis: defensins $\alpha$ -1 vs. $\alpha$ -3 and the role of LRP-1	Wendy Mars, MD	Pathology
Soriano, Alex	Family planning knowledge, attitudes and practices among Bhutanese refugee women	Miriam Cremer, MD	Obstetrics and Gynecology
St. Louis, Kwesi	The in vivo biomechanics of ankle instability and reconstruction	Scott Tashman, PhD	Orthopaedic Surgery
Stephenson, Ryan	Role of toll-like receptor 8 agonist VTX2337 in cetuximab-mediated cytotoxic activity in head and neck cancer	Robert Ferris, MD, PhD	Otolaryngology
Stokes, Timothy	White matter changes in long-term survivors of brain metastases from breast cancer treated by whole brain radiation therapy and radiosurgery versus radiosurgery alone	Douglas Kondziolka, MD	Neurological Surgery
Sween, Lindsay	Percent body fat and body fat accrual in relation to pregnancy outcomes	James Roberts, MD	Obstetrics and Gynecology
Thompson, Marcher	Fractionated stereotactic radiosurgery for the treatment of large brain metastases	Dwight Heron, MD	Radiation Oncology
Thorpe-Jamison, Patrice	The effect of a computer-generated rounding report on physical workflow in the nursing home	Steven Handler, MD, PhD	Biomedical Informatics
Thorson, Sara	Sclerostin and bone strength in women in their 10th decade of life	Jane Cauley, DrPH	Epidemiology
Thuppal, Niranjani	Patient and physician perspectives on PCI	Suresh Mulukutla, MD	Medicine
Tomlin, Brett	Simulation training in radiology	Philip Orons, DO	Radiology

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Tonetti, Daniel	A simple proposal to reduce cervical target movement during Leksell Perfexion Gamma Knife stereotactic radiosurgery	L. Dade Lundsford, MD	Neurological Surgery
Toussi, Amir	The role of alpha-cell derived peptides in mediating beta cell progenitor cell recruitment	George Gittes, MD	Surgery
Tschang, Jane	Effectiveness of adolescent anti-smoking health education through computerized media literacy program	Brian Primack, MD	Medicine
Van Hal, Michele	Impact of community gardens on fresh fruit and vegetable access and intake	Mary Nowalk, PhD	Family Medicine
Van Roekel, Daniel	Neoadjuvant anti -CTLA4 Blockade with ipilimumab in patients with AJCC Stage IIIB-C (Tx, 1-4, N1b, 2b, 2c, 3, MO) Melanoma: Prediction of reoccurrence based on PET-CT studies	Farzin Imani, MD	Radiology
Voronovich, Zoya	Deep brain stimulation as a treatment for tremor and dyskinesia in Parkinson Disease	Douglas Kondziolka, MD	Neurological Surgery
Walton, Allison	Somatization and disruptive behavior disorders in young girls	Kathleen McTigue, MD	Medicine
Weis, Joshua	Characterization of the importance of postoperative radiographic imaging following traumatic liver injury	Jason Sperry, MD	Critical Care Medicine
Werner, Carly	Effect of structured counseling on contraceptive choices of women taking isotretinoin	Eleanor Schwarz, MD	Medicine
West, Laura	The natural history of ventricular ectopy in children	Gaurav Arora, MD	Pediatrics
Wo, Sean	Cerebral cortical thickness as a structural index of brain aging in middle-aged adults	J. Richard Jennings, PhD	Psychiatry

## SCHOLARLY PROJECTS 2014

STUDENT	PROJECT TITLE	MENTOR	AFFILIATION
Wolf, Megan	The effect of exercise and sleep habits on burnout in Pitt medical students	Jason Rosenstock, MD	Psychiatry
Yang, Cheryl	Prevalence, prevention, and treatment of soil-transmitted helminth: a comparison between Cavite and Baguio City in the Philippines	Bernard Macatangay, MD	Medicine
Yecies, Todd	Effects of compartment syndrome on wound complications in the management of Tibial Pilon Fractures	Andrew Evans, MD	Orthopaedic Surgery
Yoest (Harness), Jennifer	VirtualSlide: an online pathology learning tool for medical students	Anil Parwani, MD, PhD	Pathology
Zaldana, Michelle	Quality improvement study: Adult Down Syndrome care	Peter Bulova, MD	Medicine
Zhan, Hanzi	Patient and family satisfaction following emergency obstetric crisis: development of a valid and reliable questionnaire	Patricia Dalby, MD	Anesthesiology
Zupetic, Jill	The effects of obesity and depression on asthma control	Fernando Holguin, MD	Medicine

# SCHOLARLY PROJECT O'MALLEY AWARDEES

## **The Bert and Sally O'Malley Awards for Outstanding Medical Student Research**

Bert and Sally O'Malley awards are given for outstanding Scholarly Projects in each of the following categories:

A basic science project carried out by a student during the traditional 4 years of medical school;

A basic science project carried out by a student who has taken a year off for research and completed medical school in 5 years;

A clinical science project carried out by a 4 year student;

A clinical science project carried out by a 5 year student.

### **4 Year Basic Science Research winner**

**Ms. Stephanie Dreifuss**

Mentor~ Joseph Rubin, MD, Plastic Surgery

Project: Prevalence of endogenous CD34+ adipose stem cells predicts human fat graft retention in a xenograft model

### **5 Year Basic Science Research winner**

**Mr. Daniel Ludwig**

Mentors~ David Schwartzman, MD, Medicine

Project: Development of magnetic resonance imaging to identify conduction dyssynchrony in the presence of left ventricular scar

### **4 Year Clinical Science Research winner**

**Ms. Amanda Gelman**

Mentor~ Sonya Borrero, MD, Medicine

Project: Racial disparities in awareness of HPV and HPV vaccine uptake

### **5 Year Clinical Science Research winners (to share the award)**

**Ms. Hebi Berhane**

Mentor~ Joel Greenberger, MD, Radiation Oncology

Project: Investigating the radioprotective nature of JP4-039 on human foreskin cell lines isolated from patients with Fanconi anemia and establish the drugs mechanism of action

**Ms. Jacqui Moreau**

Mentor~ Laura Ferris, MD, PhD, Dermatology

Project: Improving early detection of melanoma



# SCHOLARLY PROJECT CERTIFICATE OF MERIT AWARDEES

**Mr. Christian Bartels**

Mentor~ David Geller, MD, Surgery

Project: The role of Interleukin 23 in liver ischemia-reperfusion injury

**Mr. Lance Bodily**

Mentor~ Thirumala Parthasarathy, MD, Neurological Surgery

Project: Comparison of the efficacy of somatosensory evoked potentials (SSEP) alone to SSEP and motor evoked potentials (MEP) in instrumented pediatric scoliosis procedures

**Mr. Srinivas Chivukula**

Mentor~ Robert Kormos, MD, Surgery

Project: Alemtuzumab induction in Orthotopic Heart Transplantation: A single center analysis of cancer and survival

**Mr. John Durkin**

Mentor~ Chakra Chennubhotla, PhD, Computational and Systems Biology

Project: Imaging of Mohs Micrographic Surgery Specimens using optical coherence tomography

**Mr. Sommer Ebdlahad**

Mentor~ Anne Germain, PhD, Psychiatry

Project: Sleep following combat exposure: A neuroimaging study comparing veterans with and without posttraumatic stress disorder

**Ms. Catherine Go**

Mentor ~ Edith Tzeng, MD, Surgery

Project: The role of CO in preventing AAA formation and rupture

**Mr. Paul Johnson**

Mentor~ Umamaheswar Duvvuri, MD, PhD, Otolaryngology

Project: A novel endoscopic grasper with haptic feedback for measurement of tissue stiffness

**Ms. Elizabeth Lee**

Mentor~ David Hackam, MD, PhD, Surgery

Project: TLR4 signaling negatively regulates the intestinal microvascular response in the pathogenesis of Necrotizing Enterocolitis

**Ms. Rachel Leonardis**

Mentor~ Todd Otteson, MD, Otolaryngology

Project: Understanding and optimizing management of obstructive sleep apnea in infants

**Ms. Simiao Li**

Mentor~ Judy Chang, MD, Obstetrics and Gynecology

Project: Retinal Hemorrhages in low-risk children evaluated for physical abuse

# SCHOLARLY PROJECT CERTIFICATE OF MERIT AWARDEES

## **Mr. Christopher Lord**

Mentor~ Robert Ferris, MD, PhD, Otolaryngology

Project: The role of Fc gamma receptor IIIa polymorphisms in cetuximab-mediated induction of tumor antigen-specific T cells in head and neck cancer patients

## **Ms. Annie Lu**

Mentor~ Deepika Mohan, MD, Critical Care Medicine

Project: The rhetoric of life-sustaining treatment decisions: a simulation study

## **Mr. Constantino Michaelidis**

Mentor~ Kenneth Smith, MD, Medicine

Project: Cost-effectiveness of procalcitonin-guided antibiotic therapy for outpatient management of acute respiratory tract infections in adult.

## **Mr. Thomas Miller**

Mentor~ Brian Suffoletto, MD, Emergency Medicine

Project: Early detection of delirium in emergency department patients

## **Mr. Hiroya Nambu**

Mentor~ Oscar Marroquin, MD, Medicine

Project: Validation of age, creatinine, ejection fraction score as a risk assessment tool in patients undergoing stent implantation during percutaneous coronary intervention. A report from the dynamic registry of the National Heart, Lung, and Blood Institute.

## **Mr. Chinedu Nwasike**

Mentor~ Hunter Champion, MD, PhD, Medicine

Project: Dihydrotestosterone and its interaction with Endothelin-1 in Heart Failure

## **Mr. Divyang Patel**

Mentor~ Guy Salama, MD, Cell Biology

Project: Relaxin suppresses Atrial Fibrillation (AF) in aged Spontaneously Hypertensive Rats

## **Ms. Brianna Rossiter**

Mentor~ Janet Catov, PhD, Obstetrics and Gynecology

Project: Assessment of breastfeeding on maternal BMI and blood pressure in overweight and obese women

## **Mr. Zeyad Schwen**

Mentor~ Timothy Averch, MD, Urology

Project: An assessment of therapeutic intervention on stone urinary biochemical risk factors for patients with symptomatic nephrolithiasis

## **Ms. Kristy Shine**

Mentor~ Rocky Tuan, MD, Orthopaedic Surgery

Project: Effects of human donor age on mesenchymal stem cell migration and adhesion in vitro

## MENTOR AWARDS

Mentor awards are based on nominations from graduating students.

### *Excellence in Medical Student Research Mentoring Award*

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**Sonya Borrero, M.D., M.S.**, Assistant Professor of Medicine, Clinical and Translational Science

**Judy Chang, M.D., M.P.H.**, Assistant Professor of Obstetrics, Gynecology and Reproductive Sciences

**Guy Salama, Ph.D.**, Professor of Cell Biology and Physiology

### *Medical Student Research Mentoring Merit Award*

**Edward Burton, M.D., DPhil**, Associate Professor of Neurology, Microbiology and Molecular Genetics

**Chakra Chennubhotla, Ph.D.**, Assistant Professor of Computational and Systems Biology

**Donald Defranco, Ph.D.**, Professor and Vice Chair of Medical Education

**Brian Primack, M.D., Ph.D.**, Associate Professor of Medicine, Pediatrics and Clinical and Translational Science

**Ron Shapiro, M.D.**, Professor of Surgery

## STUDENT ACCOMPLISHMENTS

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The following lists of publications, manuscripts in submission, and national, state and local awards were compiled from the Scholarly Project Final Reports submitted in February 2014. 138 students participated in the Scholarly Project course.

Number of publications = 177

Number of manuscripts submitted = 51

Number of national or state awards = 43

Number of local awards = 65

In addition:

- Students in the class of 2014 were authors on 268 presentations at national and international meetings.
- 112 students participated in research during the summer between their 1<sup>st</sup> and 2<sup>nd</sup> years of medical school (2011). These students received competitive funds from the Dean of the School of Medicine, Children's Hospital, the Departments of Pathology and Psychiatry and NIH T35 grants to individual UPSOM research groups.

## PUBLICATIONS

### **Badlani, Jayshiv**

**Badlani JT**, Borrero C, Golla S, Harner CD, Irrgang JJ. The effects of meniscus injury on the development of knee osteoarthritis: data from the osteoarthritis initiative. *Am J Sports Med.* 2013. 41(6):1238-44. doi: 10.1177/0363546513490276.PMID: 23733830

### **Bartels, Christian**

Du Q, Zhang X, Zhang X, **Bartels C**, Geller D. P3: iNOS/NO upregulates Wnt/B-catenin signaling through dickkopf-1 (DKK1) inhibition. *Nitric Oxide.* 2013 Apr; 31(Supplement 1): S14

### **Berhane, Hebist**

**Berhane H**, Epperly MW, Goff J, Cao S, Kalash R, Cao S, Francicola D, Zhang X, Shields D, Houghton F, Wang H, Wipf P, Parmar K, Greenberger JS. Radiologic differences between bone marrow stromal and hematopoietic progenitor cell lines from Fanconi anemia (Fancd2<sup>-/-</sup>) mice. *Radiation Research* 2014; 181:76-89

**Berhane H**, Epperly MW, Cao S, Goff J, Francicola D, Wang H, Greenberger JS. Radioresistance of bone marrow and hematopoietic progenitor cell lines derived from Nrf2<sup>-/-</sup> homozygous deletion recombinant negative mice. *In Vivo.* 2013; 27(5):571-82

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**Thompson M A.B.**, Riaz N M.D., Rao S M.D. Ph.D., Ganly I M.D., Lee N M.D. Treatment of Maxillary Sinus Cancer in the Modern Era, A Single Institutional Experience

### **Voronovich, Zoya**

Albright L., **Voronovich Z.** Enterocutaneous Fistula in the Setting of Ventriculoperitoneal Shunt Extrusion through the Skin and Perforation through the Small Bowel: A Case Report. Publication Status: Revise and resubmit at *Journal of Neurosurgery: Pediatric*

Chen L., **Voronovich Z.**, Clark K, Hands I., Mannas J., Nikiforova M., Durbin E., Horbinski C. Predicting the likelihood of an IDH1 or IDH2 mutation in patients diagnosed with infiltrative gliomas. Publication Status: Revise and resubmit at *Neuro-Oncology*

**Voronovich Z.**, Grandhi R., Zwagerman N., Jadhav A., Jovin T. Manual aspiration thrombectomy for basilar infarction in the setting of persistent primitive hypoglossal artery: case report and review of the literature. Submitted to *Journal of Neurointerventional Surgery*

### **West, Laura**

**West, L.**, Beerman, L. Arora, G. The Natural History of Ventricular Ectopy in Children with Normal Hearts. Submitted (January 2014) to: *Pediatrics*

### **Wolf, Megan**

Murawski CD, **Wolf MR**, Hammond KE, Want JH, Fu FH. Platelet Rich Plasma in Sports Medicine: what have we learned? Platelet Rich Plasma in Sports Medicine and Maxillo-Facial Surgery. N Maffuli and E Anitua (eds.). [Chapter Submitted to Editors]

**Wolf MR**, Murawski CD, Muller B, Hofbauer M, Ward J, Fu FH. Future Perspectives in Knee Ligament Surgery. Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation. MN Doral and J Karlsson (eds.). Springer-Verlag, Berlin. [Chapter Submitted to Editors]

Muller B, Hofbauer M, Murawski CD, **Wolf MR**, Fu FH. Innovation in Sports Medicine. Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation. MN Doral and J Karlsson (eds.). Springer-Verlag, Berlin. [Chapter Submitted to Editors]

Hofbauer M, Muller B, **Wolf MR**, Murawski CD, Fu FH. Future Trends in Sports Traumatology. Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation. MN Doral and J Karlsson (eds.). Springer-Verlag, Berlin. [Chapter submitted to Editors]

### **Yecies, Todd**

**Yecies T.** Evans A. Tarkin I. Siska S. Gruen G. Tibial Pilon Fractures Associated with Acute Compartment Syndrome: A Retrospective Cohort Study

### **Zaldana, Michelle**

## **MANUSCRIPTS SUBMITTED**

Under Review (2013). Chapter 7: Peripheral Nerve Blocks. In Under Review (Ed.), *Fundamentals of Basic Science and Clinical Medicine* (pp. Under Review). Pittsburgh: Under Review

Under Review (2013). Chapter 3: Induction of Anesthesia. In Under Review (Ed.), *Fundamentals of Basic Science and Clinical Medicine* (pp. Under Review). Pittsburgh: Under Review

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## NATIONAL AND STATE AWARDS

**Agudelo, Christian**

National Institute of Mental Health: Medical Student Research Fellowship in Mental Health

**Badlani, Jayshiv**

Doris Duke Clinical Research Fellowship

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**Berhane, Hebest**

Fanconi Anemia Research foundation training Grant Award, 2012

**Bodily, Lance**

Walter L. Copeland Neurosurgical Scholar and grant recipient 2011-2012 research year

**Dreifuss, Stephanie**

**Dreifuss S.E.**, Farber N.J., Sohnen A.E. Olmesartan: An Unusual Cause of Celiac Sprue-like Enteropathy.

Winner of "Best Student Abstract" at the American College of Physicians National Meeting. San Francisco, CA. April 2013

**Dreifuss S.E.**, Manders E.K. Massive Scrotal Edema: An Unusual Manifestation of Obstructive Sleep Apnea and the Obesity Hypoventilation Syndrome. First place in "Clinical Vignette" category at the American College of Physicians National Meeting. San Francisco, CA. April 2013

**Emelife, Patrick**

HHMI Research Training Fellowship 2011

**Gary, Brittany**

Awarded a one year National Institute on Aging T32 Fellowship in aging research at the University of Pittsburgh in the Division of Geriatrics

**Go, Catherine**

2013 Eastern Vascular Society Young Surgeons Program Scholarship Recipient. Endovascular Salvage of Failed CryoVein Lower Extremity Bypasses

2013 Society for Vascular Surgery Foundation Student Research Fellowship. Long term outcomes after carotid endarterectomy. Sponsor: Dr. Rabih Chaer, M.D.

2013 Society of Thoracic Surgeons Looking to the Future Scholarship Awardee – 2013 STS Annual Meeting

2012 Society for Vascular Surgery Foundation Student Research Fellowship. The role of carbon monoxide in preventing AAA formation and rupture. Sponsor: Dr. Edith Tzeng, M.D.

Society for Vascular Surgery Research Principles Travel Scholarship – 2012 SVS Annual Meeting

**Hu, An-Qi**

April 2012 – American Physician Scientist Association (APSA) Meeting Travel Grant

**Jackson, Kyle**

Doris Duke Clinical Research Fellowship

**Khandai, Abhisek**

NIMH Medical Student Fellowship Program, September 2011-July 2012



## NATIONAL AND STATE AWARDS

**Lee, Elizabeth**

Travel Award, Shock Society /International Federation of Shock Societies, Miami, FL, 2012

**Levine, Allison**

Albert Schweitzer Fellowship, Pittsburgh Schweitzer Fellows Program, 2010–2011

**Li, Simiao**

Doris Duke Clinical Research Fellowship

**Lord, Christopher**

Medical Research Fellowship, Howard Hughes Medical Institute 06/01/11- 06/01/12. Role: Pre-doctoral fellow, Department of Otolaryngology, University of Pittsburgh School of Medicine, University of Pittsburgh Cancer Institute, Pittsburgh, PA. Mentor: Dr. Robert L. Ferris, M.D., Ph.D. Project Title: The role of Fc gamma receptor IIIa polymorphisms in cetuximab-mediated induction of tumor antigen-specific T cells in head and neck cancer patients

Honorary Associate Membership in the American Association for Cancer Research (AACR) June 2012- June 2013. \*Awarded a year-long membership at no cost as an honorary benefit for my participation as a podium presenter in the Late-Breaking Advances in Cancer Research. Minisymposium at AACR's annual international meeting in Chicago, IL on April 3, 2012

Best Clinical Paper by a Resident February 2012. \*Awarded at the 2012 annual meeting of the North American Skull Base Society in Las Vegas, NV for a manuscript entitled Endoscopic Endonasal Pituitary Surgery: Impact of Surgical Education on Operation Length and Patient Morbidity that I co-authored with an Otolaryngology resident from the University of Pittsburgh Medical Center under the mentorship of Dr. Carl Snyderman

HHMI Research Training Fellowship 2011

**Ludwig, Daniel**

American Society of Nuclear Cardiology Young Investigator Award, Runner-up (2012)

American Society of Nuclear Cardiology Astellas Travel Award (2012)

**Parris, Ritika**

Geriatric Fellowship in Neurology

**Patel, Kunal**

2011 American Heart Association Student Scholarship Award in Cardiovascular Disease Research

**Phelps-Tschang, Jane**

R-25 Medical Student Research Fellow, National Institute of Mental Health 2011-2012. (NIMH R25-MH054318, PI: Gretchen Haas, PhD)

**McGovern, Jonathan**

Funded by T32 grant 5T32MH19986-15

**Michaelidis, Constantinos**

Doris Duke Clinical Research Fellowship

**Miller, Weldon**

NIH T35 grant 5T35AT005933-02 with Dr. Brad Dicianno

## NATIONAL AND STATE AWARDS

**Moreau, Jacqueline**

Doris Duke Clinical Research Fellowship

Clinical Scientist Training Program Scholarship

**Nuffer, Zachary**

2013 RSNA Certificate of Merit for Top Ten Commonly Misordered Diagnostic Imaging Studies by Primary Care Physicians

2013 RSNA Certificate of Merit for Radiological Imaging Workup of the Patient Prior to Small Bowel and Multi-visceral Transplantation

**Rosenbaum, Alan**

Fulbright U.S. Student Program, El Salvador, 2012-2013

**Soriano, Alex**

Society of Family Planning Grant

**Stephenson, Ryan**

Doris Duke Clinical Research Fellowship 2011

**Stokes, Timothy**

Project abstract received 1<sup>st</sup> place at the Pennsylvania Neurosurgical Society conference in Hershey, PA

**Sween, Lindsay**

2011 Medical Student Anesthesia Research Fellowship Grant, Foundation for Anesthesia Education and Research, Rochester, MN.  
May 2011

**Walton, Allison**

NIMH T32 training grant 2011

**Wo, Sean**

2010 Medical Student Training in Aging Research Program (\$5000)

2014 American Psychosomatic Society Travel Award for Maclean Scholars (\$500)

## LOCAL AWARDS

**Ashley, Blair**

Arthur Mirsky Award for Excellence in Clinical Research, October 11, 2011. Project: Impact of Formalized Calling Criteria for Difficult Airway Management Team on the Morbidity and Mortality of Patients with Difficult Airways, Mentor: Dr. Joseph Darby

**Badlani, Jayshiv**

Clinical Scientist Training Program Fellowship

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**Bartels, Christian**

Dean's Year-Off Research Fellowship 2011

**Berhane, Hebist**

Fanconi Anemia Research Foundation grant

Stephen Phillips Award, Best Basic Science Research by a medical student, 2010

Dean's Research Fellowship 2011

**Chen, Hui-Wei**

Dean's Year-Off Research Fellowship (2011 – 2012)

Clinical Scientist Training Program Fellowship

**Chung, Christopher**

Merit Award. Dean's Summer Research Program. University of Pittsburgh School of Medicine. Pittsburgh, PA. October 2010

Orthopedics Fellowship Program 2011

**Dreifuss, Stephanie**

**Dreifuss S.E.**, Manders E.K. Massive Scrotal Edema: An Unusual Manifestation of Obstructive Sleep Apnea and the Obesity Hypoventilation Syndrome. First place in "Clinical Vignette" category at the American College of Physicians Regional Abstract Competition. Pittsburgh, PA. November 2012

**Dreifuss S.E.**, Wollstein R., Badylak S.F., Rubin, J.P. Acellular micronized extracellular matrix and occlusive dressings for open fingertip injuries. Second place in "Research" category at the American College of Physicians Regional Abstract Competition. Pittsburgh, PA. November 2012

**Dreifuss S.E.**, Ravuri S.K., McArdle N.L., Philips B.J., Marra K.G., Rubin J.P. Enhancement of Adipogenic Potential through sFRP1 Antagonism of Wnt Signaling. Winner of "Merit Award for Medical Student Research" at Dean's Summer Research Symposium. Pittsburgh, PA. October 2011

**Gande, Abhiram**

2011 Merit Award for Dean's Summer Research Project abstract and poster

**Gary, Brittany**

2013 David C. Martin Award for Academic Excellence in the Field of Geriatric Medicine: Pennsylvania Geriatrics Society - Western Division

**Gelman, Amanda**

Dean's Summer Research Program Merit Award for Excellence in Biomedical Science Research, University of Pittsburgh School of Medicine

## LOCAL AWARDS

### **Go, Catherine**

Certificate of Merit - 2011 University of Pittsburgh School of Medicine Dean's Summer Research Program Symposium. The role of carbon monoxide, a potent anti-inflammatory agent, in attenuating the formation of abdominal aortic aneurysms

### **Hempen, Eric**

2012 Best Rehabilitation Research by a Pre-Doctoral Student, Rehabilitation Institute Research Day, May 2012

Dean's Research Fellowship 2011

### **Hu, An-Qi**

May 2011 – University of Pittsburgh School of Medicine Physician Scientist Training Program Fellowship

Physician Scientist Training Program Fellowship

### **Jackson, Kyle**

Clinical Scientist Training Program Fellowship

### **Joel, Ian**

Clinical Scientist Training Program Fellowship

### **Johnson, Paul**

Physician Scientist Training Program Fellowship

### **Joshi, Aditya**

Semifinalist in Student Healthcare Entrepreneurship Competition at the University of Pittsburgh, Pittsburgh, PA, 2011. (Liposome trap)

### **Kiyatkin, Michael**

MSTP Training Award, Trainee (T32 GM008208), University of Pittsburgh School of Medicine (2008-2009)

T-32 Predoctoral Training grant in Basic Neuroscience, Center for Neuroscience

### **Lee, Elizabeth**

Phillips Award for Outstanding Basic Science or Clinical Science Research, University of Pittsburgh School of Medicine, 2011

### **Li, Simiao**

University of Pittsburgh School of Medicine Certificate of Merit for Excellence in Biomedical Science Research, October 2010

Children's Hospital of Pittsburgh of UPMC Student Research Training Program First place award, July 2010

Clinical Scientist Training Program Fellowship

### **Lu, Amy**

Trainee Travel Award for the Academy of Psychosomatic Medicine Conference 2013

### **Lu, Annie**

Alan Gleitsman Student Research Fund in Palliative Care, 2013. Institute to Enhance Palliative Care, University Of Pittsburgh

## LOCAL AWARDS

**Ludwig, Daniel**

Pitt OED Michael G. Wells Student Entrepreneurship Competition, Finalist (2011)

Pitt IEE Big Idea Competition: Runner-up (2012), First Prize (2011), Second Prize (2010)

Morris H. and Gertrude M. Harris Foundation Scholarship (2010, 2013)

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Physician Scientist Training Program Fellowship

**Lord, Christopher**

Physician Scientist Training Program Fellowship

**Michaelidis, Constantinos**

Clinical Scientist Training Program Fellowship

**Moreau, Jacqueline**

Clinical Scientist Training Program Fellowship

**Morton, Jessica**

Clinical Scientist Training Program Fellowship

**Nambu, Hiroya**

Dean's Summer Research Program Merit Award

**Nwasike, Chinedu**

Physician Scientist Training Program Fellowship

**Parris, Ritika**

2012 Pittsburgh Clinical Research Training Program in Geriatrics and Gerontology

**Patel, Divyang**

Stephen Phillips Research Award

2<sup>nd</sup> Place Prize for Best Basic Science Project at 20<sup>th</sup> Annual American Heart Association (AHA). Fellows Day, Pittsburgh, PA

**Phelps-Tschang, Jane**

**Phelps-Tschang JS**, Rice KR, Primack BA. Computerized Anti-Smoking Media Literacy for High School Students: A Pilot Study. Oral presentation. NIMH Medical Student Research Fellowship Graduation Presentation, Western Psychiatric Institute and Clinic. July 2012

**Shine, Kristy**

Physician Scientist Training Program Fellowship

## LOCAL AWARDS

### **Thompson, Marcher**

University of Pittsburgh School of Medicine Dean's Research Fellowship 2012

Medical Student Summer Fellowship Program at Memorial Sloan-Kettering Cancer Center 2011

Klionsky Summer Fellowship in Pathology 2010

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University of Pittsburgh School Merit Scholarship 2009

Dean's Research Fellowship 2011

### **Schwen, Zeyad**

AUA Northeastern Section Best Poster Stones/Endourology, 2013

AUA Northeastern Section Best Poster Basic Science, 2013

Hyperoxaluria paper published in Urology was featured on UroToday, MDLinx, and Labome, 2013

### **Soriano, Alex**

University of Pittsburgh International Women's Reproductive Health Panel

### **Stokes, Timothy**

Summer Research Merit Award for work on my scholarly project pilot study

### **Tonetti, Daniel**

2011 Walter L. Copeland Neurological Surgery Research Fellowship

### **Toussi, Amir**

2012 David C. Martin award to present the summer research project at a national meeting

### **Voronovich, Zoya**

University of Pittsburgh Medical Alumni Association, support of volunteer work on the pediatric neurosurgery service at AIC Kijabe Hospital/Bethany Kids, Kijabe, Kenya during June 2013

### **Walton, Allison**

Scaife fellowship program with Institute for Research, Education and Training in Addictions 2011

Clinical Scientist Training Program Fellowship

### **Wolf, Megan**

Orthopaedic Surgery Research Fellowship. Department of Orthopaedic Surgery, University of Pittsburgh. Advisor: Dr. Freddie Fu.  
Anatomic ACL Reconstruction

### **Yost (Harness), Jennifer**

Post-Sophomore Fellowship in Pathology, University of Pittsburgh Department of Pathology July 2012- June 2013

## **Scholarly Project Deans:**

David Hackam, MD, PhD  
Associate Dean for Medical Student Research  
Department of Surgery

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Donald Defranco, PhD  
Assistant Dean for Medical Student Research  
Department of Pharmacology and Bio Chemistry

Margaret Conroy, MD, MPH  
Assistant Dean for Medical Student Research  
Department of Medicine

Cynthia Lance-Jones, PhD  
Assistant Dean for Medical Student Research  
Department of Neurobiology

Gwendolyn Sowa, MD, PhD  
Assistant Dean for Medical Student Research  
Department of Physical Medicine and Rehabilitation

Philip Troen, MD  
Assistant Dean for Medical Student Research  
Department of Medicine

## **Administration:**

Suzann Beardsley  
Medical Student Research Administrator

Pamela Harlow  
Medical Student Research Coordinator

Colleen Mayowski  
Program Manager, Scholarly Project