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## 2015-2016 Department of Internal Medicine Scholarly Activity Report

Quillen College of Medicine, East Tennessee State University

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**EAST TENNESSEE STATE UNIVERSITY  
QUILLEN COLLEGE OF MEDICINE**

***SUMMARY OF SCHOLARLY ACTIVITIES***

**Department of Internal Medicine**

**July 2015 - June 2016**

**I. PUBLICATIONS**

**A. Peer-Reviewed Journal Publications**

1. Bhatheja S, Panchal HB, Barry N, Mukherjee D, Uretsky B, Paul TK. Valvular Performance and Aortic Regurgitation Following Transcatheter Aortic Valve Replacement Using Edwards valve versus Core Valve for Severe Aortic Stenosis: A Meta-analysis. *Cardiovascular Revasc Med* 2016 Jun 17(4):248-55. PMID: 26948087
2. Bossaer JB, Geraci SA, Chakraborty K. Cardiovascular toxicity and management of targeted cancer therapy: An overview for generalists. *Am J Med Sci* 2016 May;351(5):535-543. PMID: 27140715
3. Chaudhari D, Madani MA, Balbissi KA, Paul TK. Lupus myocarditis presenting as overt heart failure: Case report with review of cardiovascular manifestations of Systemic Lupus Erythematosus. *J La State Med Soc* 2015 Sep-Oct;167(5):220-2. PMID: 27159597
4. Cheng, YQ; Ren, JP; Zhao, J; Wang, JM; Zhou, Y; Li, GY; Moorman, JP; Yao, ZQ. MicroRNA-155 regulates interferon- $\gamma$  production in natural killer cells via Tim-3 signaling in chronic hepatitis C virus infection. *Immunology*. 2015 Aug;145(4):485-97. doi: 10.1111/imm.12463. Epub 2015 Apr 21. PMID: 25772938
5. Cuervo-Pardo L, Barcena-Blanch MA, Gonzalez-Estrada A, Schroer B. Apps for Food Allergy: a critical assessment. *J Allergy Clin Immunol Pract*. 2015 Nov-Dec;3(6):980-981. PMID:26534743
6. Dai, J; El Gazzar, M; Li, GY; Moorman, JP; Yao, ZQ. Myeloid-derived suppressor cells: paradoxical roles in infection and immunity. *J Innate Immun*. 2015;7(2):116-26. doi: 10.1159/000368233. Epub 2014 Nov 8. Review. PMID: 25401944
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10. Gonzalez-Estrada A, Cuervo-Pardo L, Ghosh B, Smith M, Pazheri F, Zell K, Wang XF, Lang DM. Popular on YouTube: A Critical Appraisal of the Education

Quality of Information Regarding Asthma. Allergy Asthma Proc. 2015 Nov; 36(6):121-126.

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- 12 Jbara,M.; Maity,S.K.; Morgan, M.; Wolberger,C.; Brik, A. Chemical Synthesis of Phosphorylated Histone H2A at Tyr57 Reveals Insight into the Inhibition Mode of the SAGA Deubiquitinating Module.*Drug Targets* 17(999):1-1 March 2016 PMID: 26960207
13. Khraisha O, Al-Madani M, Peiris A, Paul TK. Gastroparesis -A novel cause of persistent thyroid stimulating hormone elevation in hypothyroidism. *J La State Med Soc* 2015;167(2):47-9
14. Kheirbek R, Fletcher R, Bakitas M, Fonarow G, Parvataneni S, Bearden D, Bailey F, Morgan CJ, Singh S, Blackman M, Zile M, Patel K, Ahmed MB, Tucker R, Brown C, Love TE, Aronow WS, Roseman J, Rich MW, Allman RM, Ahmed A. Discharge Hospice Referral and Lower 30-Day All-Cause Readmission in Medicare Beneficiaries Hospitalized for Heart Failure. *Circulation Heart Failure.* 2015;8:733-740. PMID: 26019151
15. Lavine SJ, Al Balbissi K. Adverse Cardiac Events and the Impaired Relaxation Left Ventricular Filling Pattern.*J Am Soc Echocardiogr.* 2016 Mar 19. pii: S0894-7317(16)00091-2. doi: 10.1016/j.echo.2016.02.008. [Epub ahead of print] PMID: 27004828
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25. Panchal HB, Veeranki SP, Bhatheja S, Barry N, Mahmud E; Budoff M, Lavine SJ, Mamudu HM, Paul TK. Fractional Flow Reserve using Computed Tomography for Assessing Coronary Artery Disease: A Meta-Analysis. *J Cardiovas Med* 2016 Sep;17(9):694-700. PMID:27472038
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27. Pourmorteza M, Lewis P, Tharp J, Reddy C, Litchfield J, Young M. "Proton Pump Inhibitors Use and Risk of *Clostridium difficile* Infection in Hospitalized Patients". Special supplement, October 2015 issue of *The American Journal of Gastroenterology*.
28. Pourmorteza M, Litchfield J, Carter L, McKinney J, Young M. "A Case of Esophageal Thermal Injury Following Radiofrequency Catheter Ablation Therapy". Special supplement, October 2015 issue of *The American Journal of Gastroenterology*.
29. Pourmorteza M, Pourmorteza M, Brahmabhatt P, Young M. "Mysterious Intussusception in an Adult Without a Lead Point". Special supplement, October 2015 issue of *The American Journal of Gastroenterology*.
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42. Wang, L; Zhao, J; Ren, J; Hall, KH; Moorman, JP; Yao, ZQ; Ning, S. Protein phosphatase 1 abrogates IRF7-mediated type I IFN response in antiviral immunity. *Eur J Immunol*. 2016 Jul 29. doi: 10.1002/eji.201646491. [Epub ahead of print] PMID: 27469204
43. Wang L, Wang K, Gao X, Paul TK, Cai J, Wang Y. Sex differences in the association between obesity and asthma in U.S. adults: Findings from a national study. *Respir Med* 2015;109(8):955-962. PMID: 26118569
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## B. Abstracts

1. Ahmed N, Patel N, Badeka A, Devani K, Patel A, Patel D, Yegneswaran B. 1113 Mortality and Length of Stay Associated With Endoscopic Retrograde Cholangiopancreatography (ERCP) Utilization in Acute Cholangitis Patients: A 10 Year United States Perspective. *Gastroenterology*.150:S223.
2. Bhatheja S, Panchal HB, Barry N, Rahman, Z, Albalbissi K, Paul TK. Comparison between frequency domain optical coherence tomography and intravascular

ultrasound in detection of mechanical complications of coronary stent implantation: A meta-analysis. *Circulation: Cardiovascular Quality and Outcomes* 2015;8:A364

3. Bhatheja S, Panchal HB, Barry N, Rahman, Z, Ramu V, Paul TK. Measurement of lumen dimensions in non-stented and stented coronary arteries: A meta-analysis of frequency domain optical coherence tomography versus intravascular ultrasound. *Circulation: Cardiovascular Quality and Outcomes* 2015;8:A367
4. Bhatheja S, Panchal HB, Rahman Z, Barry N, Ramu V, Paul TK. Post-procedural new onset atrial fibrillation in patients undergoing transcatheter aortic valve implantation versus surgical aortic valve replacement for severe aortic stenosis: A meta-analysis. *Circulation: Cardiovascular Quality and Outcomes* 2015;8:A153
5. Bhatheja S, Singh B, Panchal HB, Paul TK. Comparison of mortality and major adverse cardiovascular events in saphenous vein graft intervention with embolic protection device versus without embolic protection device: A Meta-Analysis. *Catheter Cardiovasc Interv* 2016.
6. Bhatheja S, Singh B, Panchal HB, Paul TK. Comparison of mortality and major adverse cardiovascular events in saphenous vein graft intervention with embolic protection device versus without embolic protection device: A Meta-Analysis. The Society for Cardiovascular Angiography and Intervention. May 2016.
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8. Chaudhari D, Reddy C, Young M. Lung adenocarcinoma with solitary gastric metastasis: a case report with literature review. *Translational Gastrointestinal Cancer*. Vol 4, No. 3 (May 2015).
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12. Devani K, Patel P, Panchal H, Young M, Reddy CM. Sa1173 Impact of Cirrhosis in Hospitalized Patient Undergoing Endoscopic Retrograde Cholangiopancreatography: Analysis of Nationwide Inpatient Sample. *Gastrointestinal Endoscopy*.83:AB242.
13. Devani K, Patil N, Savani C, et al. Mo1155 Trends in Hospitalization and Mortality of Venous Thromboembolism in Hospitalized Colon Cancer Patients and Their Outcomes: Analysis of Nationwide Inpatient Sample. *Gastroenterology*.150:S652-S653
14. Devani K, Patil N, Savani C, Patel P, Chaudhari D, Reddy CM. 281 Decreasing Mortality in Patients With Cirrhosis Hospitalized With Spontaneous Bacterial Peritonitis: Analysis of Nationwide Inpatient Sample. *Gastroenterology*.150:S1023.
15. Devani K, Pourmorteza M, Kapila A, Chakraborty, Bortezomib: A Crouching Dragon, Hidden Tiger; *J Investig Med* 2016; 64:549. Doi: 10.1136/jim-2015-000035.151
16. Devani K, Pourmorteza M, Kapila A, O'Neil TJ, Severe Hypertriglyceridemia: A

- Rare Cause of Organic Brain Syndrome and Laboratory Artifact; J Investig Med 2016; 64:493-494. Doi: 10.1136/jim-2015-000035.14
17. Devani K, Thakkar B, Savani C, Savani G, Patel A, Savani BN. Outcomes of Venous Thromboembolism in Hospitalized Non-Hodgkin Lymphoma Patients: Analysis from the Nationwide Inpatient Sample Database. Blood 2015;126:5058. DOI: <http://dx.doi.org/>
  18. Devani, Kalpit; Chaudhari, Dhara; Litchfield, John; and Young, Mark (2015) "Giant Gastric Antral Polyp Presenting as Iron Deficiency Anemia and Intermittent Gastric Outlet Obstruction," Tennessee Medicine E-Journal: Vol. 1: Iss. 4, Article
  19. Jbara M, Bajaj K, "Widowmaker" Attacking A Female in Her Twenties. Journal of Investigative Medicine. 10.1136/jim-2015-000035.88
  20. Jbara M, Tawadros F, Mamdouhi P, Hamati A. Primary metastatic tracheal cancer: a very rare respiratory cancer with diagnostic and therapeutic challenges and no clinical trials for definitive management. Journal of Investigative Medicine 10.1136/jim-2015-000035.187.
  21. Lavine SJ, Al Balbissi KA. Adverse cardiovascular events and grade 1 diastolic dysfunction. J Am Soc Echocardiogr 2015: 28, in press.
  22. Lavine SJ, Sivaganam K. Indexing Peak Rapid Filling Velocity to Both Relaxation and Filling Volume to Estimate Left ventricular Filling Pressures. J Am Soc Echocardiogr 2016, in press
  23. Mamudu HM, Jones A, Paul TK, Subedi P, Veeranki SP, Wang L, Panchal HB, Alamian A, Alamin A, Budoff M. Does neighborhood disadvantage affect subclinical atherosclerosis? Cardiology 2016, (online e-ISSN 1421-9751).
  24. Mamudu HM, Paul TK, Wang L, Veeranki SP, Panchal HB, Alamian A, Budoff M. Association between multiple modifiable risk factors of cardiovascular disease and hypertension in a rural population in the United States. American Heart Association/Atherosclerosis, Thrombosis and Vascular Biology 2016.
  25. Patel P, Devani K, Young M, Reddy CM. Su1492 Clostridium difficile: Cause of Significantly Poor Outcomes in Patients With Cirrhosis - Analysis of Nationwide Inpatient Sample. Gastroenterology.150:S1109.
  26. Phemister J, Pourmorteza M, Brahmabhatt P, Reddy C, Young M. "Hypersensitivity Reaction to Ursodiol Resulting in Cardiac Arrhythmia". Special supplement, October 2015 issue of *The American Journal of Gastroenterology*.
  27. Pourmorteza M, Al Shathir M, Roy T, Byrd R. Expected and Unexpected Electrolyte Disturbances with Bath Salt Ingestion. J Investig Med. 2015; 63(2): 343-344.
  28. Pourmorteza M, Pourmorteza M, Patel B, Peiris A, Patel P. A Case of Hyponatremia Potentiated by NSAIDS. J Investig Med. 2015; 63 (2): 328.
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  31. Rogers M, Kalra S, Moukharskaya J, Chakraborty K, Niyazi, M, Krishnan, K, Lightner J, Brannon M, Stone WL, Palau V. Synergistic inhibition of prostate

- cancer cell (PC3) growth in vitro with low dose combinations of Simvastatin and Alendronate, *Anticancer Research* 35: 1851-1860, 2015
32. Sethi P, Panchal HB, Rahman Z, Bhatheja S, Paul TK. Diagnostic value of non-invasive computed tomography perfusion imaging for assessing hemodynamically significant native coronary artery lesion: A meta-analysis. *Circulation: Cardiovascular Quality and Outcomes* 2015;8:A362
  33. Sethi P, Panchal HB, Rahman Z, Bhatheja S, Veeranki SP, Paul TK. Diagnostic value of non-invasive computed tomography angiography with computed tomography perfusion imaging for assessing hemodynamically significant native coronary artery lesion: *Catheter Cardiovasc Interv* 2015;85(6):S58
  34. Stuart CA, Howell MEA, Brannon MF, Stone MH, Stone WL. Epigenetic Regulation of Skeletal Muscle Fiber Composition through MicroRNAs. *Diabetes* 64 (Suppl 1): 2017-P, 2015.
  35. Tawadros F, Jbara M, Bajaj K. Aspirin induced respiratory disease complicated by orbital cellulitis and facial osteomyelitis. *Journal of investigative medicine* 10.1136/jim-2015-000035.70
  36. Wann D, Victoria Palau, Janet Lightner, Maryann Brannon, K. Krishnan. Abstract 4639: Metformin decreases cellular ceramides in MCF-7 and MDA-MB 231 breast cancer. *Cancer Research* 08/2015; 75(15 Supplement):4639-4639. DOI:10.1158/1538-7445.AM2015-4639

### C. Books or Chapters

1. Mehta JB, Dutt AK. (2015) Tuberculosis. In D Schlossberg. (Ed) *Clinical Infectious Disease*, Second Edition. (pp. 1010-1019) Cambridge University Press.
2. Stone WL, Palau V, Krishnan K. Vitamins, gastrointestinal protection and oxidative stress. In *Gastrointestinal Tissue: Oxidative Stress and Dietary Antioxidants*. Edited by: Jordi Gracia-Sancho, PhD (Institute for Biomedical Research IDIBAPS - Hospital Clinic de Barcelona) and Prof. M Josepa Salvadó, PhD (Department of Biochemistry and Biotechnology, Rovira i Virgili University). Published by Elsevier Inc. Invited Chapter, 2016

### D. Proceedings

None

## II. PRESENTATIONS

1. Ashley Rose, Daniel Wann, Janet Lightner, Marianne Brannon, William Stone, Victoria Palau, Koyamangalath Krishnan. Metformin suppresses synthesis of pro-survival sphingolipid, sphingosine-1-phosphate, by inhibition of sphingosine kinase-1, in MCF-7 and SK-BR-3 breast cancer cell lines. Abstract # 1784, American Association of Cancer Research (AACR), New Orleans, April 2016.
2. Bhatheja S, Singh B, Panchal HB, Paul TK. Comparison of mortality and major adverse cardiovascular events in saphenous vein graft intervention with embolic protection device versus without embolic protection device: A Meta-Analysis. *The Society for Cardiovascular Angiography and Intervention*. May 2016.
3. Bhattad V, Al Madani M, El -Khoury G, Khraisha O, Paul TK. Methadone and Prolonged QT syndrome. *Appalachian Student Research Forum* 2016.



4. Devani K, Patil N; Savani C; Patel P; Chaudhari D; Young M; Reddy C, Decreasing Mortality in Patients With Cirrhosis Hospitalized With Spontaneous Bacterial Peritonitis: Analysis of Nationwide Inpatient Sample; DDW2016, AASLD research forum, San Diego, CA
5. Devani K, Pourmorteza M, Kapila A, O'neil TJ, Severe Hypertriglyceridemia: A Rare Cause of Organic Brain Syndrome and Laboratory Artifact, Southern Regional Meeting, February 2016, New Orleans, Louisiana
6. Gaba AK. Identification of multidrug resistance (MDRG) in the respiratory tract of hospitalized patients using integrated molecular techniques: presented at ID Week 2015™, October 7-11, 2015 in San Diego, CA.
7. Gaba AK. Utility of Target Enriched Multiplex Polymerase Chain Reaction (TEM-PCR) for co-detection of potential pathogenic organisms in patients with Health Care Associated Pneumonia (HCAP), Hospital Acquired Pneumonia (HAP) and Ventilator Associated Pneumonia (VAP): presented at ID Week 2015, October 7-11, 2015 in San Diego, CA.
8. Kelley Cross, Victoria Palau, Marianne Brannon, Janet Lightner, Megan Dycus, William Stone, Koyamangalath Krishnan. Delta-tocotrienol and simvastatin induce cytotoxicity and synergy in BRAF mutant SK-MEL-28 but not in wild type BRAF SK-MEL-2 melanoma cancer cells. Abstract #1780, American Association of Cancer Research (AACR), New Orleans, April 2016.
9. Lavine SJ, Al Balbissi KA. Adverse cardiovascular events and grade 1 diastolic dysfunction. Presented at American Society of Echo Scientific Sessions, Boston, June 2015
10. Lavine SJ, Sivaganam K. Indexing Peak Rapid Filling Velocity to Both Relaxation and Filling Volume to Estimate Left ventricular Filling Pressures. Presented at American Society of Echo Scientific Sessions, Seattle, June 2016
11. Mamudu HM, Jones A, Paul TK, Subedi P, Veeranki SP, Wang L, Panchal HB, Alamian A, Alamin A, Budoff M. Does neighborhood disadvantage affect subclinical atherosclerosis? Inter Academy of Cardiology; 21st World Congress on Heart Disease, Boston, MA 2016.
12. Mamudu HM, Paul TK, Wang L, Veeranki SP, Panchal HB, Alamian A, Budoff M. Association between multiple modifiable risk factors of cardiovascular disease and hypertension in a rural population in the United States. American Heart Association/Atherosclerosis, Thrombosis and Vascular Biology 2016.
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14. Mogusu E, Abusara A, Panchal HB, Zheng S, Paul TK. National trend and comparison in total charges for single vessel and multivessel percutaneous coronary intervention in all patients and patients with diabetes mellitus in the United States. Appalachian Student Research Forum 2016.
15. Owusu D, Wang K, Paul TK, Wang L. Prevalence and trends of weight status and dyslipidemia among U.S. children and adolescents from 1999-2012. Appalachian Student Research Forum 2016.
16. Panchal HB, Bhatheja, Paul TK. Not All Thrombotic Appearing Lesions are Really Thrombotic. Complex Cardiovascular Catheter Therapeutics Global

- Summit (C3). June 2016. Orlando, FL
17. Parvataneni S, Chaudhari D, Goenka P, Young M. Choledochal Cyst Complicated with Pancreatic Adenocarcinoma in an Adult. Poster to be presented at American College of Gastroenterology Annual Scientific Meeting, October 2015.
  18. Parvataneni S, Chaudhari D, Swenson J, Young M. Intestinal Ganglioneuroma: Endoscopic Findings of Cowden Syndrome. Accepted for ACG October 2015
  19. Parvataneni S, Rahman Z, Chaudhari D, Goenka P, Young M. Incomplete MEN in a Female. Poster presented at American College of Gastroenterology Annual Scientific Meeting, October 2015.
  20. Paul TK. Flow limiting massive left coronary artery dissection during routine PCI: A dreaded complication. Complex Cardiovascular Catheter Therapeutics (C3) International Global Summit 2016, Orlando, FL
  21. Parvataneni S, Chaudhari D, Swenson J, Young M. Intestinal Ganglioneuroma: Endoscopic Finding of Cowden Syndrome. Poster presented at American College of Gastroenterology Annual Scientific Meeting, October 2015.
  22. Phemister J, Pourmorteza M, Brahmabhatt P, Reddy C, Young M. “Hypersensitivity Reaction to Ursodiol Resulting in Cardiac Arrhythmia”. 80th Annual Scientific Meeting of the American College of Gastroenterology, Honolulu, HI
  23. Pourmorteza M, Litchfield J, Carter L, McKinney J, Young M. “A Case of Esophageal Thermal Injury Following Radiofrequency Catheter Ablation Therapy”. 80th Annual Scientific Meeting of the American College of Gastroenterology, Honolulu, HI
  24. Pourmorteza M, Patel B, Moorman J. Bilateral Femoral Head Avascular Necrosis in an HIV Patient. American College of Physicians (ACP) Tennessee – Chattanooga, TN, September 2015
  25. Pourmorteza M, Pourmorteza M, Brahmabhatt P, Young M. “Mysterious Intussusception in an Adult Without a Lead Point”. 80th Annual Scientific Meeting of the American College of Gastroenterology, Honolulu, HI
  26. Pourmorteza M, Pourmorteza M, Litchfield J, Borthwick T. “Pancreatic VIPoma: A Rare Clinical Entity Captured at the Dawn of its Manifestation”. 80th Annual Scientific Meeting of the American College of Gastroenterology, Honolulu, HI
  27. Pourmorteza M, Rahman Z, Mamdouhi P, Minaoui W, Sethi P, Paul T,. “Cardiac Arrest as a Consequence of Air Embolism status post CT-Guided Lung biopsy”. 2015 Tennessee Chapter Scientific Meeting (TN ACP), Chattanooga, TN.
  28. Rives C, Chaudhari D, Swenson J, Reddy C, Young M. Clostridium Perfringens Liver Abscess with Bacteremia Complicating Endoscopic Retrograde Cholangiopancreatography. Accepted for ACG October 2015.
  29. Singh B, Treece J, Bhatheja S, Sivagnanam M, Lavine S, Paul TK. Anabolic steroid induced aortic dissection in an otherwise healthy young male. Appalachian Student Research Forum 2016.
  30. Sitwala P, Ladia V, Singh B, Ramu V. Brugada syndrome mimicking Acute STEMI. American College of Physicians (ACP) Tennessee – Chattanooga, TN, September 2015

### **III. FACULTY PEER REVIEWERS**

Charles A. Stuart, MD  
Jay Metha, MD

Jonathan Moorman, MD, Ph.D.  
 K. Krishnan, MD  
 Kenneth Olive, MD  
 Mohamed El Gazzar, Ph.D.  
 Stephen Geraci, MD  
 Timir Paul, MD

**IV. HONORS**

Alexei Gonzalez, MD, FACP has been elected to the Fellowship in the American College of Physicians.

K. Krishnan is Chief Editor and author of the Hematology section of Medscape

K. Krishnan MD, FRCP, FACP has been selected as a member of the Abstract Review Board for the 2016 ACP National Abstract Competitions.

Kenneth E. Olive, MD, was approved by the *American College of Physicians (ACP)* Board of Regents as a 2015 Master of Internal Medicine.

Stephen Geraci, MD was named Chair of Publications Oversight Committee and first physician editor of Academic Internal Medicine Insight on July 1. Directed and taught workshop on Career Development for Clinician Educators at Southern Regional Meeting of SSCI Feb 2015.

Stephen Geraci, MD, Appointed to Medical Student Education Committee, QCOM

Stephen Geraci, MD, Visiting Professor, Academy of Teaching Scholars, University of Oklahoma School of Medicine, OKC.

Timir Paul, MD was awarded the Cardiology Attending of the Year Award, 2015-2016, Presented by Cardiology Fellows, Quillen College of Medicine, ETSU.

Timir Paul, MD, Abstract Reviewer for the American Heart Association Scientific Sessions for 2016

Timir Paul, MD, Speaker, Moderator and Panelist; Complex Cardiovascular Catheter Therapeutics (C3) International Global Summit 2016, Orlando, FL

**V. VISITING PROFESSORS**

None

**VI. RESEARCH FUNDING**

PI	Title	Agency Name	Start Date	End Date	Current	Total Awarded
Krishnan	Dishner Chair of Excellence 16-17	Endowment Funding	7/1/2016	6/30/2017	31,383.00	123,000.00
Yao	Tim-3 mediated IL-12 dysregulation	Health and Human Services	4/10/2012	3/31/2017	380,540.00	582,645.00

<b>Elgazzar</b>	3169P - MicroRNAs and myeloid cell	Health and Human Services	9/13/2013	5/31/2018	170,194.00	1,314,710.00	
<b>Yao</b>	3169P - miRNA-mediated premature	Health and Human Services	12/1/2014	11/30/2019	347,976.00	1,142,668.00	
<b>Yin</b>	3169P - Role of Hematopoietic Stem	Health and Human Services	4/1/2015	3/31/2018	181,878.00	850,922.00	
<b>Moorman</b>	3169P - The Role of microRNAs in PR	Health and Human Services	5/15/2015	4/30/2017	153,331.00	359,160.00	
<b>Yao</b>	IPA Agreement for Jumping Ren	Veterans Affairs	5/1/2016	4/30/2017	11,673.00	69,400.00	
<b>Moorman</b>	HIV/AIDS Center of Excellence	State of Tennessee	4/1/2016	3/31/2017	138,483.00	336,617.00	
<b>Ning</b>	ASH Scholar Award	American Society of Hematology	5/1/2014	6/30/2016	4,157.00	12,500.00	
<b>Moorman</b>	340B Outpatient Drugs Program	Nashville Pharmacy Services, L	8/1/2012	9/30/2019	2,243,368.00	ongoing	
<b>Moorman</b>	A Phase II Study of Doripenem	Ortho-McNeil Janssen Scientific	5/19/2007	ongoing	3,663.00	28,600.00	
<b>Moorman</b>	Phase II Trial Pneumonia	Theravance	10/1/2005	ongoing	10,167.00	230,706.00	
<b>Stuart</b>	Cardiovascular Research Gift	Multiple Funding COM Donations	1/1/1996	ongoing	33,005.00	959,437.00	
					<b>TOTAL</b>	<b>3,709,818.00</b>	<b>6,010,365.00</b>