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**2010-2011**  
**Summary of Scholarly Activities**  
**Department of Internal Medicine**

**I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS**

Ahmed F, Jacobson IM, Herrera JL, Brand M, Wasserman RB, Fixelle AM, Rustgi VK, Albert C, Brown R, Brass C. Seizures during pegylated interferon and ribavirin therapy for chronic hepatitis C: observations from the WIN-R trial. *J Clin Gastroenterol*. 2011 Mar;45(3):286-92.

Cohen MV, Downey JM. Ischemic postconditioning: from receptor to end-effector. *Antioxid Redox Signal*. 2011 Mar 1;14(5):821-31.

Cohen MV, Downey JM. Is it time to translate ischemic preconditioning's mechanism of cardioprotection into clinical practice? *J Cardiovasc Pharmacol Ther*. 2011 Sep;16(3-4):273-80.

Cohen MV, Yang XM, Liu Y, Solenkova NV, Downey JM. Cardioprotective PKG-independent NO signaling at reperfusion. *Am J Physiol Heart Circ Physiol*. 2010 Dec;299(6):H2028-36.

deMelo SW Jr, Wallace MB. Endoscopic colorectal imaging and therapy. *Curr Opin Gastroenterol*. 2011 Jan;27(1):54-60.

deMelo SW Jr, Cleveland P, Raimondo M, Wallace MB, Woodward T. Endoscopic mucosal resection with the grasp-and-snare technique through a double-channel endoscope in humans. *Gastrointest Endosc*. 2011 Feb;73(2):349-52.

deMelo SW Jr, Panjala C, Crespo S, Diehl NN, Woodward TA, Raimondo M, Wallace MB. Interobserver agreement on the endosonographic features of lymph node in aerodigestive malignancies. *Dig Dis Sci*. 2011 May 14. Available from: <http://www.springerlink.com/contents/j527700574563120/fulltext.pdf>

DiPalma JA, Farraye FA. Crohn's disease: the first visit. *Gastroenterol Hepatol*. 2011 Mar;7(3):163-9.

Erzurum S, Rounds SI, Stevens T, Aldred M, Aliotta J, Archer SL, Asosingh K, Balaban R, Bauer N, Bhattacharya J, Bogaard H, Choudhary G, Dorn GD 2<sup>nd</sup>, Dweik R, Fagan K, Fallon M, Finkel T, Geraci M, Gladwin MT, Hassoun PM, Humbert M, Kaminski N, SM, Loscalzo J, McDonald D, McMurtry IF, Newman J, Nicolls M, Rabinovitch M, Shizuru J, Oka M, Polgar P, Rodman D, Schumacker P, Stenmark K, Tuder R, Voelkel N, Sullivan E, Weinshilboum R, Yoder MC, Zhao Y, Gail D, Moore TM. Strategic plan for lung vascular research: an NHLBI-ORDR workshop report. *Am J Respir Crit Care Med*. 2010 Dec 15;182(12):1554-62.

Gillespie MN, Pastukh VM, Ruchko MV. Controlled DNA "damage" and repair in hypoxic signaling. *Respir Physiol Neurobiol*. 2010 Dec 31;174(3):244-51.

Grube K, Rüdebusch J, Xu Z, Böckenholt T, Methner C, Müller T, Cuello F, Zimmerman K, Yang X, Felix SB, Cohen MV, Downey JM, Krieg T. Evidence for an intracellular localization of the adenosine A<sub>2B</sub> receptor in rat cardiomyocytes. *Basic Res*. 2011 May;106(3):385-96.

Henderson PK, DiPalma JA. Diagnosing irritable bowel syndrome: a changing clinical paradigm. *South Med J*. 2011 Mar;104(3):195-9.

Kumar M, Herrera JL. Importance of hepatitis vaccination in patients with chronic liver disease. *South Med J*. 2010 Dec;103(12):1223-31.

Landreneau SW, DiPalma JA. Update on preparation for colonoscopy. *Curr Gastroenterol Rep*. 2010 Oct;12(5):366-73.

Methner C, Schmidt K, Cohen MV, Downey JM, Krieg T. Both A<sub>2a</sub> and A<sub>2b</sub> adenosine receptors at reperfusion are necessary to reduce infarct size in mouse hearts. *Am J Physiol Heart Circ*. 2010 Oct;299(4):H1262-4.

Milton DL, Schneck AN, Ziech DA, Ba M, Facemyer KC, Halayko AJ, Baker JE, Gerthoffer WT, Cremo CR. Direct evidence for functional smooth muscle myosin II in the 10S self-inhibited monomeric conformation in airway smooth muscle cells. *Proc Natl Acad Sci U S A*. 2011 Jan 25;108:1421-6.

Ochoa CD, Stevens T, Balczon R. Cold exposure reveals two populations of microtubules in endothelia. *Am J Physiol Lung Cell Mol Physiol*. 2011 Jan;300(1):L132-8.

Parker JC, Townsley MI. Control of TRPV4 and its effect on the lung. In: Kamkin A, Kiseleva I, editors. *Mechanosensitivity and mechanotransduction*. New York, NY; Springer; 2010. Chapter 10, p. 239-54. (Mechanosensitivity in Cells and Tissues, vol. 4)

Parra-Bonilla G, Alvarez DF, Al-Mehdi AB, Alexeyev M, Stevens T. Critical role for lactate dehydrogenase A in aerobic glycolysis that sustains pulmonary microvascular endothelial cell proliferation. *Am J Physiol Lung Cell Mol Physiol*. 2010 Oct;299(4):L513-22.

Pastukh VM, Zhang L, Ruchko MV, Gorodnya O, Bardwell GC, Tuder RM, Gillespie MN. Oxidative DNA damage in lung tissue from patients with COPD is clustered in functionally significant sequences. *Int J Chron Obstruct Pulmon Dis*. 2011 Mar 13;6:209-17. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3107697/pdf/copd-6-209.pdf>

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Sayner SL, Balczon R, Frank DW, Cooper DM, Stevens T. Filamin A is a phosphorylation target of membrane but not cytosolic adenylyl cyclase activity. *Am J Physiol Lung Cell Mol Physiol*. 2011 Jul;301:L117-24.

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Solodushko V, Alvarez DF, Viator R, Messerall T, Fouty B. Heterogeneous activation of p19Arf in pulmonary artery smooth muscle cells. *Am J Physiol Lung Cell Mol Physiol*. 2011 Apr;300(4):L642-7.

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Solodushko V, Fouty B. Mifepristone increases gamma-retroviral infection efficiency by enhancing the integration of virus into the genome of infected cells. *Gene Ther*. 2010 Oct;17(10):1253-61.

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Urakami T, Jarvinen TA, Toba M, Sawada J, Ambalavann N, Mann D, McMurtry I, Oka M, Rouslahti E, Komatsu M. Peptide-directed highly selective targeting of pulmonary arterial hypertension. *Am J Pathol*. 2011 Jun;178(6):2489-95.

Voelkel JP, DiPalma JA. Deep enteroscopy. *South Med J*. 2010 Oct;103(10):1045-8.

Xia YC, Schuliga M, Shepherd M, Powell M, Harris T, Langenbach SY, Tan PS, Gerthoffer WT, Hogarth PM, Stewart AG, Mackay GA. Functional expression of IgG-Fc receptors in human airway smooth muscle cells. *Am J Respir Cell Mol Biol*. 2011 May;44:665-72.

Yang X, Liu Y, Yang XM, Hu F, Cui L, Swingle MS, Honkanen RE, Soltani P, Tissier R, Cohen MV, Downey JM. Cardioprotection by mild hypothermia during ischemia involves preservation of ERK activity. *Basic Res Cardiol*. 2011 May;106(3):421-30.

Yang X, Xin W, Yang XM, Kuno A, Rich TC, Cohen MV, Downey JM. A<sub>2B</sub> adenosine receptors inhibit superoxide production from mitochondrial complex I in rabbit cardiomyocytes via a mechanism sensitive to pertussis toxin. *Br J Pharmacol*. 2011 Jul;163(5):995-1006.

Zhu B, Zhang L, Creighton J, Alexeyev M, Strada SJ, Stevens T. Protein kinase A phosphorylation of tau-serine 214 reorganizes microtubules and disrupts the endothelial cell barrier. *Am J Physiol Lung Cell Mol Physiol*. 2010 Oct;299(4):L493-501. .

## II. PUBLISHED ABSTRACTS

Alzoubi A, Toba M, Abe K, Bauer N, Fagan KA, McMurtry I, Oka M. Dehydroepiandrosterone inhibits the infiltration of proliferative bone marrow-derived hematopoietic stem cells into the perivascular space of remodeled pulmonary arteries of SU5416/hypoxia/normoxia-exposed rats. *Am J Respir Crit Care Med*. 2011 May 1;183:A3422. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Balczon R, Prasain N, Prater J, Alexeyev M, Zhu B, Sayner S, Frank D, Stevens T. The pseudomonas aeruginosa exotoxin Y impairs microtubule assembly in pulmonary microvascular endothelial cells. *Am J Respir Crit Care Med*. 2011 May 1;183:A4180. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Bauer N, Quinn B, Toba M, Abe KA, Alzoubi A, Oka M, McMurtry IF. Circulating microparticles as biomarkers of disease progression in a preclinical model of pulmonary arterial hypertension. *Am J Respir Crit Care Med*. 2011 May 1;183:A4960. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Bauer N, Quinn B, Toba M, Alzoubi A, Abe K, Oka M, McMurtry IF. Leukocyte and endothelial microparticle phenotypes are increased across the pulmonary vascular bed in a preclinical model of severe pulmonary arterial hypertension. *Am J Respir Crit Care Med*. 2011 May 1;183:A4961. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Chouteau J, Gorodnya O, Ruchko M, Obiako B, Wilson G, Gillespie MN. Novel fusion protein constructs targeting DNA repair enzymes to mitochondria protect against *pseudomonas aeruginosa*-induced acute lung injury in intact rats. *Am J Respir Crit Care Med*. 2011 May 1; 183:A3763. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Cioffi EA, Alvarez DF, Pyakurel S, Cioffi D. Terminal alpha-2,3-linked sialic acids are a critical determinant of pulmonary endothelial barrier integrity. Gordon Research Conference in Carbohydrates; 2011 Jun 20; Waterville, ME. Abstract no. 14.

Clark DW, Gillespie MN. Promoter G-quadruplex sequences are targets for base oxidation and strand cleavage during hypoxia-induced gene transcription. *FASEB J*. 2011;25:693.1.

Comer BS, Kogut P, Camoretti-Mercado B, Solway J, Gerthoffer WT. Mirna expression in asthmatic airway smooth muscle cells. *Am J Respir Crit Care Med*. 2011 May 1;183:A3630. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Cui L, Yang XM, Yang X, Cohen M, Downey J. Cantharidin, a phosphatase inhibitor, protects the heart from ischemic injury through a U0126-sensitive mechanism. *J Mol Cell Cardiol*. 2011 Sep;51(3 Suppl):S8-9. Abstract no. 027.

Fagan KA, Williams KD, Gairhe S, Villalta P, Oka M, Abe K, McMurtry IF. Increased expression of alpha5 and beta1 integrins in an animal model of severe pulmonary arterial hypertension. *Am J Respir Crit Care Med*. 2011 May 1;183:A3410. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Gerthoffer WT, Murphy LT, Battles M, Charaff E, Malozzi C, Wenzel G, Massey CV. Dynamic changes in plasma HSP27 levels and phosphorylation in patients with cardiovascular disease. *FASEB J*. 2011;25:791.10

Hendon S, DiPalma J. Unconventional esophageal stricture. *Am J Gastroenterol*. 2010 Oct;105(Suppl 1):S168. Abstract no. 461.

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Joshi SR, Abe K, Oka M, McMurtry I, Gerthoffer WT. Mir-145 in vascular smooth muscle phenotype in pulmonary arterial hypertension. *Am J Respir Crit Care Med*. 2011 May 1;183:A3448. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

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Keller C, Herrera J. An unusual etiology of dysphagia in a patient with known Eosinophilic Esophagitis. *Am J Gastroenterol*. 2010 Oct;105(Suppl1):S161-2. Abstract no. 442.

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Landreneau S, Voelkel JP, Herrera J. Are patients who undergo treatment for chronic hepatitis C (HCV) vaccinated for hepatitis A and B? *Am J Gastroenterol*. 2010 Oct;105(Suppl 1):S90. Abstract no. 241.

Landreneau SW, Black TP, Manolakis CS, DiPalma JA. Does bowel cleansing enhance capsule endoscopy? *Gastroenterology*. 2011 May;140(5)Suppl 1:S757. Abstract no. Tu1166.

Manolakis C, DiPalma J. "Red flag" evaluation yield in irritable bowel syndrome. *Am J Gastroenterol*. 2010 Oct;105(Suppl 1):S489. Abstract no. 1325.

McGowan J, Cleveland M, DiPalma J. New oral sulfate solution is an effective bowel preparation in difficult to clean populations. *Am J Gastroenterol*. 2010 Oct;105(Suppl 1):S145. Abstract no. 397.

McLendon JM, Joshi SR, Abe K, Oka M, McMurtry IF, Gerthoffer WT. Role of MicroRNA-204 in arterial smooth muscle phenotype in pulmonary hypertension. *Am J Respir Crit Care Med*. 2011 May 1;183:A4947. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

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Parker JC, Kelley S, Mayer A, Mouner M, Hashizume M, Townsley MI. Myosin light chain kinase regulates surface expression and calcium entry by TRPV4 channels in rat pulmonary microvascular endothelial cells. *FASEB J.* 2011;25:1101.1.

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Pastukh V, Reed D, Patel M, Al-Mehdi AB, Gillespie MN. Estrogen activates an oxidant-dependent signaling pathway threatening VEGF promoter integrity in pulmonary artery endothelial cells (PAECs). *FASEB J.* 2011;25:1034.2.

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Preud'Homme D, Likely C, Phelps L, Higginbottom L, Pettry A, Blair-Elortegui J. Does parents' knowledge of their BMI status and cardiovascular risk (CV) improve their children's BMI after 3 months of family centered intervention for weight management (FCI)? *J Am Coll Nutr.* 2010 Oct;29(5):528-57.

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Rich T, Annamdevula N, Boni J, Stocker S, Grant K, Alvarez D, Leavesley S. A spectral imaging method for monitoring infused endothelial progenitor cell distribution in normal lung. *Am J Respir Crit Car Med.* 2011 May 1;183:A4948. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Robson M, Stevens TC, Ochoa C, Frank D, Stevens T. The pseudomonas aeruginosa type three secretion system inhibits store operated calcium entry. *Am J Respir Crit Care Med.* 2011 May 1;183:A1944. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Ruchko M, Gorodnya O, Chouteau J, Pastukh, V, Gillespie MN. Peripheral blood cell mitochondrial DNA integrity in a rat model of *pseudomonas aeruginosa*-induced acute lung injury. Am J Respir Crit Care Med. 2011 May 1;183:A1977. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Stevens T, Nickles J. Passive transfer of anoikis-resistant endothelial cells from culture media. Am J Respir Crit Care Med. 2011 May 1;183:A4196. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Stevens TC, Robson M, Ochoa C, Frank D, Stevens T. The *pseudomonas aeruginosa* exotoxin Y impairs endothelial cell mobility. Am J Respir Crit Care Med. 2011 May 1;183:A1943. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Stocker S, Leavesley SJ, Alvarez D, Rich T. Spectral imaging analysis methods for fluorescence microscopy. American Institute of Chemical Engineers (AIChE) National Conference; 2010 Nov 11; Nashville, TN. Abstract no. 5681.

Toba M, Alzoubi A, Abe K, Urakami T, Komatsu M, Jarvinen T, Mann D, Ruoslahti E, Bauer NR, Fagan KA, McMurtry IF, Oka M. The homing peptide CAR markedly enhances the pulmonary vasodilator efficacy and selectivity of the Rho kinase inhibitor fasudil. Circulation. 2010 Nov 23;122(21 Suppl 1):A13022.

Toba M, Alzoubi A, McMurtry IF, Oka M. Expression of S100A4 is markedly unregulated in the plexiform lesions in a preclinical model of severe pulmonary arterial hypertension. Am J Respir Crit Care Med. 2011 May 1;183:A4968. Available from: [http://ajrccm.atsjournals.org/content/vol183/1\\_MeetingAbstracts/aindex.dtl](http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl)

Yang X, Liu Y, Yang XM, Hu F, Cui L, Cohen M, Downey J. Cardioprotection from mild hypothermia during ischemia depends on ERK activity. J Mol Cell Cardiol. 2011 Sep;51(3 Suppl 1):S14. Abstract no. 043.

Yang XM, Tandon N, Liu Y, Kambayashi J, Cui L, Liu Y, Downey J, Cohen MV. Blocking platelet activation in rabbits or monkeys protects against infarction by postconditioning-like signaling. J Mol Cell Cardiol. 2011 Sep;51(3 Suppl 1):S14. Abstract no. 045.

### III. PUBLISHED BOOKS

### IV. INVITED PRESENTATIONS

Alvarez DF. Invited speaker. New insights into the mechanisms involved in acute lung injury. Pulmonary vascular progenitor cells. American Thoracic Society Mini Symposium; 2011 May 16; Denver, CO.



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Alvarez DF. Invited speaker. New insights into the mechanisms involved in acute lung injury. Pulmonary vascular progenitor cells. American Thoracic Society Symposium; 2011 May 18; Denver, CO.

Broughton W. Invited speaker. CSA: When man forgets to breathe. 2011 USA College of Medicine Alumni Association Annual Meeting; 2011 Jun 4; Orange Beach, AL.

Broughton W. Invited speaker. Kurt Vonnegut, Ice-9, and mad cows: a prion story. 2011 Annual Meeting of the Alabama Association of Sleep Professionals; 2011 Apr 30; Pensacola Beach, FL.

Cohen MV. Invited speaker. Cantharidin, a phosphatase inhibitor, protects the heart from ischemic injury through a U0126-sensitive mechanism. International Society for Heart Research 32nd North American Meeting; 2011 May 24; Philadelphia, PA.

Cohen MV. Invited speaker. Cardioprotection from mild hypothermia during ischemia depends on ERK activity. International Society for Heart Research 32nd North American Meeting; 2011 May 24; Philadelphia, PA.

Cohen MV. Invited speaker. Blocking platelet activation in rabbits or monkeys protects against infarction by postconditioning-like signaling. International Society for Heart Research 32nd North American Meeting; 2011 May 24; Philadelphia, PA.

Fagan KA. Invited speaker. PH in COPD. Bayer Symposium; 2010 Oct 23; Leverkusen, Germany.

Fagan KA. Invited speaker. Scleroderma associated pulmonary arterial hypertension. American Thoracic Society International Conference Post Graduate Course; 2011 May 14; Denver, CO.

Fagan KA. Invited speaker. Intermittent hypoxia-induced pulmonary hypertension. American Thoracic Society International Conference Post Graduate Course; 2011 May 14; Denver, CO.

Fagan KA. Invited speaker. Pulmonary arterial hypertension. American Thoracic Society International Conference Fellows Track Symposium; 2011 May 14; Denver, CO.

Fagan KA. Invited speaker. Pulmonary hypertension for the primary care provider. Alabama Association of Family Practitioners Annual Meeting; 2011 Jun 24; Destin, FL.

Fagan KA. Invited speaker. PFTs. Pulmonary Hypertension Professional Network Conference; 2011 Sep 23; Arlington, VA.

Green WK. Invited speaker. Adult vaccination update. Alabama Society of Physician Assistants Annual CME Meeting; 2011 Feb 19; Birmingham, AL.

Green WK. Invited speaker. AIDS/HIV update 2010. Providence Hospital Fall Education Series; 2010 Oct 22; Mobile, AL

Green WK. Invite speaker. HIV/AIDS update. Providence Hospital Spring Education Series; 2011 May 13; Mobile, AL.

Green WK. Invited speaker. Treatment guidelines for *Clostridium Difficile*. Alabama Medicaid Agency Annual Medicaid Pharmacy Update; 2010 Oct 21; Mobile, AL.

Haynes J. Invited speaker. Pathophysiology and medical manifestations of sickle cell disease. Sickle Cell Counselor Education and Certification Program, Sickle Cell Association of Alabama; 2010 Dec 7; Mobile, AL.

Haynes J. Invited speaker. Adult care: addressing common challenges. Sickle Cell Counselor Education and Certification Program, Sickle Cell Association of Alabama; 2010 Dec 7; Mobile, AL.

Haynes J. Invited speaker. Pathophysiology of sickle cell disease. Sickle Cell Counselor Education and Certification. Program, Sickle Cell Association of Alabama; 2011 May 9; Mobile, AL.

Haynes J. Invited speaker. Sickle cell trait and athletes. Sickle Cell Counselor Education and Certification Program, Sickle Cell Association of Alabama; 2011 May 9; Mobile, AL.

Massey CM. Invited speaker. 2010 Update on heart disease in women. Alabama State Nurses Association Convention; 2010 Oct 1; Mobile, AL.

Massey CM. Invited speaker. Vitamin D & cardiovascular disease. Mobile Infirmiry Medical Center Medical and Surgical Grand Rounds; 2011 Feb 16; Mobile, AL.

McMurtry IF. Invited speaker. Recent advances in mechanisms of hypoxic pulmonary vasoconstriction. American Thoracic Society International Conference 2011; 2011 May 17; Denver, CO.

Oka M. Invited speaker. Cell-targeted drug delivery for the treatment of pulmonary arterial hypertension. Juntendo University School of Medicine; 2010 Dec 17; Tokyo, Japan.

Oka M. Invited speaker. Cell-targeted drug delivery for the treatment of pulmonary arterial hypertension. Toho University School of Medicine; 2010 Dec 20; Tokyo, Japan.

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Oka M. Invited speaker. Dehydroepiandrosterone and experimental PH. Grover Conference 2011; 2011 Sep 10; Sedalia, CO.

Rutecki GW. Invited speaker. Reclaiming integrity through conscience, philanthropia and vocation. Center for Bioethics and Human Dignity 18<sup>th</sup> Annual Summer Conference; 2011 Jul 15; Deerfield, IL.

Rutecki GW. Invited speaker. A Christian response to the how much is a life worth debate: the value of cancer therapy. Center for Bioethics and Human Dignity 18<sup>th</sup> Annual Summer Conference; 2011 Jul 15; Deerfield, IL.

Rutecki GW. Invited speaker. Nutrition and hydration at the end of life. Cabrini Institute; 2010 Oct 8; Manchester, NH.

Rutecki GW. Invited speaker. Congenital heart disease. Northeastern Ohio University College of Medicine; 2011 May 10; Canton, OH.

Rutecki GW. Invited speaker. Gift of life or commodity: transplantation in a global marketplace. Mobile Infirmiry Health System; 2011 Apr 19; Mobile, AL.

Rutecki GW, Wright A. Invited speakers. Collaboration to increase of the care in severe hypertension. Auburn University Harrison School of Pharmacy; 2011 Feb 4; Auburn, AL.

Rutecki GW. Invited speaker. Refractory and severe hypertension. Alabama Chapter of the American College of Physicians Annual Scientific Meeting; 2011 Jun 3; Fairhope, AL.

Tyler SK. Invited speaker. HIV management: new drugs, new tests: ARV therapy today. National Network of STD/HIV Prevention Training Centers; 2010 Dec 14; Mobile, AL.

Vande Waa JA. Invited speaker. Management of catheter-related infections. Annual Sickle Cell Conference; 2011 Apr 9; Mobile, AL.

## V. NATIONAL PROFESSIONAL RECOGNITION

Ronald C. Allison: Member of Commission for the Accreditation of Respiratory Care, the national agency that accredits training programs for respiratory care.

Diego F. Alvarez: Web Site Coordinator, Pulmonary Circulation Assembly-American Thoracic Society; Program Committee member, Pulmonary Circulation Assembly-American Thoracic Society; Planning Committee member, Pulmonary Circulation Assembly-American Thoracic Society; Program Committee member, Respiratory Section-American Physiological Society; Nominating Committee Chair, Respiratory Section-American Physiological Society; Abstract reviewer, American Thoracic Society International Conference 2010; Abstract reviewer, American Heart

association International Conference 2011; American Thoracic Society Symposium – (Denver, Colorado): “Pulmonary vascular progenitor cells” (Spring 2011); American Thoracic Society Mini symposium – Chair (Denver, Colorado): New insights into the mechanisms involved in acute lung injury” (Spring 2011); Peer reviewer for manuscripts submitted to *American Journal of Physiology-Lung Cellular and Molecular Physiology*, *Microvascular Research*, *Translational Research*, *American Journal of Respiratory Cell and Molecular Biology*, *American Journal of Respiratory and Critical Care Medicine*, *Pulmonary Circulation*, *Journal of Applied Physiology*; Editorial Board, *American Journal of Physiology-Lung Cellular and Molecular Physiology*; Editorial Board, *Pulmonary Circulation*; Editorial Board, *Frontiers in Respiratory Physiology*.

Barney B. Beaver: Advisory Board: Boston Scientific Corporation.

Eduardo G. Calderon served in the following capacities: Director of the Tuberculosis Clinic at the Mobile County Health Department, Member of the Infectious Disease Fellowship Committee and the Pharmaceuticals and Therapeutics Committee at USA Medical Center, Member of the Tuberculosis Medical Advisory Council for the State of Alabama Department of Public Health.

Michael V. Cohen: Editorial Board: Basic Research in Cardiology; NIH: Myocardial Ischemia and Metabolism Study Section 2011 February.

Jack A. DiPalma: Foundation Board, World Gastroenterology Organization, 2008-2011, Treasurer, 2011-Present; World Gastroenterology Organization, Capital Campaign, National Society Division Chair, Campaign Executive Committee, 2010-2011; Editorial Board, *Gastroenterology and Hepatology*, 2004-2011; Editorial Board, *Nature Clinical Practice*, 2007-2011; Editorial Medical Instruments, 2005-2011; Foldgers Coffee Scientific Advisory Board, 2006-2011; Best Doctors in America, 2003-2012; Symposium Chair, New Options for Bowel Preps. Digestive Disease Week, New Orleans, LA, May 8, 2011.

Karen Fagan: Best Doctors in America; American Thoracic Society: Clinicians Advisory Committee, Scientific Advisory Committee, Pulmonary Circulation Assembly Program Committee, Pulmonary Circulation Assembly Planning Committee, Facilitator Poster Session at International Conference, Moderator, mini-symposium at International Conference; Pulmonary Hypertension Association, Workshop participant on Pulmonary Hypertension Phenotypes; Member Scientific Leadership Council; Member Research Committee; American Heart Association: Unified Peer Review Steering Committee member, Reviewer for National Research Center, Reviewer Innovation Grants; Southern Society of Clinical Investigation Nominating Committee; NIH K08 reviewer; K99 reviewer; participant at Clinical Research in Pulmonary Hypertension Workshop; Ad hoc reviewer for *American Journal of Physiology Lung Cell Mol Physiology*; *American Journal of Respiratory Critical Care Medicine*; Co-Chair 15th Grover Conference on the Pulmonary Circulation Editorial Board Advances in Pulmonary Hypertension.

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**William Kevin Green:** Associate Professor of Medicine, Medical Director of the Infection Control and Employee Health for the University of South Alabama Hospital System, Chairperson of the Institutional Review Board, the Infection Control Committee and the Infection Prevention and Review Committee, Joint Associate Professor of the Department of Physician Assistant Studies, Member of the Infectious Disease Fellowship Committee, the Performance Improvement Council at USA Medical Center and at USA Children's and Women's Hospital, Mobile Infirmiry Medical Center's Infection Control Committee, the Medical Executive Committee at USA Medical Center and at Mobile Infirmiry West, the Critical Care Committee, the Resident Mentoring Program, the Financial Conflict of Interest/Conflict of Commitment Committee, Mobile Infirmiry Medical Executive Committee and the Society for Healthcare Epidemiology of America's Guidelines Committee. Dr. Green also serves as Chairperson of the Board of Directors at South Alabama CARES as well as Chairperson of the Alabama Medicaid Drug Utilization Review Committee.

**Johnson Haynes Jr.:** Member, Alabama Sickle Cell Oversight Regulatory Commission, Chapter Review Member on NIH Guidelines for Hydroxyurea Use in Adults, Best Doctors in America, Most Influential African Americans Doctors – Black Health Magazine, America's Top Doctors.

**Jorge L. Herrera:** Section Editor, *Practical Gastroenterology*, 2009-2011; Editorial Board, *Gastroenterology and Hepatology Journal*, 2008-2011; Best Doctor's in America, 2008-2009, 2009-2010, 2011-2012; Reviewer for the Liver Section of the Digestive Disease Week and the Annual Meeting of the American Association of Liver Disease; Reviewer for the *American Journal of Gastroenterology*; Reviewer for *Journal of Clinical Gastroenterology*; Reviewer for *Southern Medical Journal*; Reviewer for *Journal of Clinical Gastroenterology*.

**Olivette Grace Talbert Hundley:** Alabama Chapter ACP Board of Directors Class of Alabama Chapter Council. 2011. Invited National Abstract Reviewer Poster Judges for Clinical Vignettes, American College of Physicians.

**Terry Jerome Hundley:** Top 5 Internal Medicine Interest Group in the nation for total student body enrollment. Chair of Associate Activities, Alabama Chapter ACP Board of Directors Class of 2012, Alabama Chapter Council. Dr. Hundley was featured in an article entitled "My Kind of Medicine: Real Lives of Practicing Internists" of the American College of Physicians IMPact newsletter (March, 2011 edition).

**Thomas B. Montgomery:** Clinical Vignette Reviewer for the Southern Section of Society of General Internal Medicine, 2011.

**GW Rutecki:** Peer reviewer, *Academic Medicine Journal*, *Southern Medical Journal*, *American Journal of Medical Sciences and Ethics and Medicine*; Interviewed by The Baltimore Sun, "HIV-Infected organs can save lives", Apr 2011; Editor, Consultant "Top Paper of the Month", Reviewer, consultant Photo Quiz; Contributor, McMaster Online rating of the Evidence; Academic Medicine's "AM Classics Collection," *The*

*Influence of Controllable Lifestyle and sex on the specialty choices of U.S. Medical Students 1996-2003*, Oct 2011; Consumers Research Council of America "Top Physician" 2011; The World's Leading Physicians, 2011.

Shannon Tyler: Member of the Infectious Disease Fellowship Committee, the American Medical Association, the Medical Society of Mobile County, the Infectious Disease Society of America and the Medical Association of the State of Alabama.

Clinical preceptor to the Infectious Disease fellows and to Internal Medicine residents as well as Physician Assistant students in the USA Mastin Continuity of Care Infectious Diseases Clinic, the USA Family Specialty HIV-1 Clinic, the Mobile County Board of Health HIV-1 Clinic the Franklin Primary Health Centers HIV-1 Clinic. The majority of Dr. Tyler's professional time is devoted to providing care to the underserved in Mobile County and the surrounding communities.

John Vande Waa: Chairperson of the Pharmaceuticals and Therapeutics Committee, the Resident Education Committee and the Infectious Disease Fellowship Committee, Member of the Graduate Medical Education Committee, the Infection Control Committee, the P.A. Admissions Committee for Physician Assistant Studies, the Resident Mentoring Program, the LCME Governance and Administration Subcommittee, the American Society of Tropical Medicine and Hygiene, the Infectious Disease Society of America and the American Federation for Medical Research.

## **VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS**

### **Education**

The department has continued to receive excellent evaluations from medical students and residents for its educational activities. For over 10 consecutive years the Internal Medicine Clerkship has been recognized as the best clerkship for third year medical students. The Class of 2011 again honored the department with this award. Several of the departmental faculty were recognized with the red sash award for their educational efforts. Departmental members have been instrumental in developing the new curriculum for the medical school. Clearly, the department continues to meet its educational mission and is being recognized by its chief customer, the pupils, for success for this endeavor.

### **Scholarly Efforts**

The department has continued to be productive in scholarly achievements, particularly in the area of publications. Again the Divisions of Gastroenterology, Pulmonary, Nephrology, and Critical Care had particularly successful years in the arena. The residents have been active in scholarly activity primarily through case reports and presentations at regional meetings.

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## Service

The department continues to deliver excellent clinical service. In general, clinical activities have remained stable across the department despite a decrease in faculty size. In addition to the University Hospitals, we continued our clinical activities at Infirmiry West Hospital and the Mobile Infirmiry Medical Center. We ended teaching clinical inpatient services at the Mobile Infirmiry Medical Center in July, 2011.

Departmental faculty continue to serve on editorial boards, as journal reviewers, on advisory boards and on grant review panels. Our faculty contributes to the Greater Mobile Community through individual service within organizations (faith-based, not for profit, disease oriented) and individual initiatives.