

# Curriculum Vitae

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## BIOGRAPHICAL

**Name:** Donna Beer Stolz

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**Place of Birth:** Fitchburg, MA, USA

**Citizenship:** USA

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## EDUCATION AND TRAINING

<i>Dates attended</i> <i>Discipline</i>	<i>Name and Location of Institution</i>	<i>Degree/Year</i>
<b>UNDERGRADUATE</b>		
1977-1980 Biochemistry	University of New Hampshire, Durham, NH	
1984-1986 Biochemistry	University of Massachusetts, Amherst, MA	B.S. 1986 <i>summa cum laude</i>
<b>GRADUATE</b>		
1986-1991 Molecular and Cellular Biology	University of Massachusetts, Amherst MA (Mentor: Bruce S. Jacobson, Ph.D.)	Ph.D. 1991
Summer 1987 10 weeks	Marine Biological Laboratory, Woods Hole MA	Embryology
June 13-20, 2010	Quantitative Fluorescence Microscopy	Mt. Desert Island Biological Labs
<b>POST-GRADUATE</b>		
1992-1996 Pathology/Hepatology	University of Pittsburgh Medical School (Mentor: George K. Michalopoulos, M.D., Ph.D.)	Post-Doctoral

*Curriculum Vitae*  
*Updated August 11, 2016*

*Donna Beer Stolz, Ph.D.*

## APPOINTMENTS AND POSITIONS

<b><i>Years Inclusive</i></b>	<b><i>Name and Location of Institution</i></b>	<b><i>Position</i></b>
1996-2008	University of Pittsburgh School of Medicine Department of Pathology	Research Assistant Professor
1997- 2008	University of Pittsburgh School of Medicine Dept. Cell Biology & Physiology	Research Assistant Professor
1997-present	University of Pittsburgh School of Medicine Center for Biologic Imaging	Associate Director
1997-present	University of Pittsburgh School of Medicine Center for Biologic Imaging	Director Electron Microscopy Facility
2001-present	McGowan Institute for Regenerative Medicine	Member Faculty
2008-present	McGowan Institute of Regenerative Medicine	Executive Board
2007-present	University of Pittsburgh Cancer Institute	Member Faculty
2008-2012	University of Pittsburgh Medical School Department of Cell Biology and Physiology	Associate Professor (Primary)
2008-present	University of Pittsburgh Medical School Department of Pathology	Associate Professor (Secondary Appointment)
2012-present	University of Pittsburgh Medical School Department of Cell Biology	Associate Professor (Primary) with tenure
2012-present	University of Pittsburgh Medical School Department of Pathology	Associate Professor, with tenure (Secondary appointment)
2015-present	Vascular Medicine Institute University of Pittsburgh School of Medicine	Member Faculty

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## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

American Society for Cell Biology (ASCB)	1991-present
Microscopy Society of America (MSA)	1997-present
North American Vascular Biology Association (NAVBO)	1997-present
American Society for the Study of Liver Diseases (AASLD)	1998-2012
American Society for Investigative Pathology (ASIP)	1999-present
American Physiological Society	2011-present

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## AWARDS AND HONORS

Commonwealth Scholar, University of Massachusetts, Amherst, MA	1986
Graduated <i>Summa Cum Laude</i> , University of Massachusetts, Amherst, MA	1986
American Liver Foundation Liver Scholar Award, American Liver Foundation	1997-2000
Charlotte Geyer Foundation Cancer Research Grant	1997
Olympus BioScapes honorable mention photomicrograph	2006
Nikon Small World 2 <sup>nd</sup> and 19 <sup>th</sup> place winner photomicrographs	2011
Nikon Small World Honorable Mention photomicrograph	2012
University of Pittsburgh Biomedical Graduate Student Association Distinguished Mentor Award	2012
ASCB Science as Art Show Competition, Philadelphia Airport, 2 pieces	2014
ASCB Science as Art Show Competition, Dulles Airport, Washington DC, 1 piece	2014
Nikon Small World Award, Image of Distinction.	2015

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## PUBLICATIONS

### Peer-Reviewed Articles

1. Yen-Patton, GPA, WF Patton, **DM Beer**, BS Jacobson. Endothelial cell response to pulsed electromagnetic fields: stimulation of growth rate and angiogenesis in vitro. *J. Cell. Physiol.* 134:37-46.1988. PMID: 244715.
2. **Stolz DB** & BS Jacobson. Macro- and microvascular endothelial cells in vitro: maintenance of biochemical heterogeneity despite loss of ultrastructural characteristics. *In Vitro Cell Dev. Biol.* 27A:169-182. 1991. PMID: 2019556.
3. **Stolz, DB**, MG Mahoney, BS Jacobson. The impenetrability of 5-N(-hexadecanoyl)-aminofluorescein through endothelial cell monolayers is dependent upon its solution properties, not the presence of tight junctions. *Biochem. Biophys. Res. Comm.* 184(1):160-166. 1992. PMID: 1567423.
4. **Stolz DB** & BS Jacobson. Examination of transcellular membrane protein polarity of bovine aortic endothelial cells in vitro using the cationic colloidal silica microbead isolation procedure. *J. Cell Science* 103, 39-51. 1992. PMID: 1331135.
5. **Stolz DB**, G Bannish, BS Jacobson. The role of the cytoskeleton and intercellular junctions on the transcellular membrane Protein Polarity of Bovine Aortic Endothelial Cells In Vitro. *J. Cell Science* 103, 53-68. 1992. PMID: 1429910.
6. **Stolz DB** & GK Michalopoulos. Comparative effects of hepatocyte growth factor and epidermal growth factor on motility, morphology, mitogenesis and signal transduction of primary rat hepatocytes. *J. Cellular Biochem.* 55:445-464.1994. PMID: 7962176
7. Jacobson BS, **Stolz DB**, Schnitzer JE. Identification of endothelial cell-surface proteins as targets for diagnosis and treatment of disease. *Nature medicine.* 1996; 2(4):482-4. PMID: 8597963.
8. Mars, WM, T-K Kim, **DB Stolz**, M-L Liu, GK Michalopoulos. The presence of urokinase in serum-free, primary rat hepatocyte cultures and its role in activating hepatocyte growth factor. *Cancer Research*, 56:2837-43. 1996. PMID: 8665523.
9. **Stolz DB** & GK Michalopoulos. Synergistic enhancement of EGF, but not HGF, stimulated hepatocyte motility by TGF- $\beta$ 1 in vitro. *J. Cell. Physiol.* 170:57-68. 1997. PMID: 901278.
10. Presnell, SC, **DB Stolz**, M Jo, WM Mars, GK Michalopoulos, SC Strom. Constitutive expression of TGF- $\alpha$  in rat liver epithelial cells results in modifications of the HGF/c-met pathway. *Molecular Carcinogenesis.* 18:244-255. 1997. PMID: 9142219.
11. T-H Kim, WM Mars, **DB Stolz**, BE Petersen, GK Michalopoulos. Extracellular matrix remodeling at early stages of rat liver regeneration. *Hepatology*, 26:896-904. 1997. PMID: 9328311.
12. **Stolz DB** & GK Michalopoulos. Differential Modulation of HGF stimulated motility by TGF- $\beta$ 1 on rat liver epithelial cells in vitro. *J. Cell. Physiol.* 175:30-40. 1998. PMID: 9491778
13. Shima, N, **DB Stolz**, M Miyazaki, E Gohda, K Higashio, GK Michalopoulos. Sustained induction of p21/waf1 mediates growth inhibition of HepG2 cells induced by hepatocyte growth factor. *J. Cell. Physiol.* 177:130-136. 1998. PMID: 9731753.
14. Kim, T-H, WC Bowen, **DB Stolz**, D Runge, WM Mars, GK Michalopoulos Differential expression and distribution of focal adhesion and cell adhesion molecules in rat hepatocyte differentiation. *Exp. Cell Res.* 244:93-104. 1998. PMID: 9770353.
15. LeQuerre, S, D Anderson, **DB Stolz**, J C Glorioso. Recombinant herpes simplex virus type 1 engineered for Targetted binding to the erythropoietin receptor bearing cells. *J. Virology* 72(12):9683-9697 1998. PMID: 9811702.

16. Michalopoulos GK, WC Bowen, VF Zajac, **DB Stolz**, D Runge and SC Watkins. Morphogenetic events of mixed cultures of hepatocytes and non-parenchymal cells in biological matrices. *Hepatology*, 29: 90-100. 1999. PMID: 9862855.
17. Rizzo MA, K Shome, C Vasudevan, **DB Stolz**, SC Watkins, G Romero. Phospholipase D and its product, phosphatidic acid, mediate agonist-dependent Raf-1 translocation to the plasma membrane and to endocytotic vesicles. *J Biol. Chem.* 274(2):1131-1139. 1999. PMID: 9873061.
18. Li S, W-C Tseng, **DB Stolz**, SC Watkins, L Huang. Dynamic changes in the characteristics of cationic lipidic vectors after exposure to mouse serum: implications for intravenous lipofectin. *Gene Therapy*, 6:585-594. 1999. PMID: 10476218.
19. Jessup JM, P Battle, H Waller, KH Edmiston, **DB Stolz**, SC Watkins, J Locker, K Skena. Reactive nitrogen and oxygen radicals form during hepatic ischemia-reperfusion to kill low metastatic cancer cells. *Cancer Research* 59:1825-1829. 1999. PMID: 10213485.
20. Lange RW, R Clark Lantz, **DB Stolz**, SC Watkins, P Sundareshan, R Lemus, MH Karol. Toluene diisocyanate colocalizes with tubulin on cilia of differentiated human airway epithelial cells. *Toxicological Sciences* 50:64-71. 1999. PMID: 10445754.
21. **Stolz DB**, WM Mars, BE Petersen, T-H Kim, GK Michalopoulos. Growth factor signal transduction immediately following two-thirds partial hepatectomy in the rat. *Cancer Research* 59:3954-3960. 1999. PMID: 10463591.
22. **Stolz DB**, MA Ross, HM Salem, W M Mars, GK Michalopoulos, K Enomoto. Cationic Colloidal Silica Membrane Perturbation as a Means of Examining Changes at the Sinusoidal Surface During Liver Regeneration. *Am. J. Path.* 155:1487-1498. 1999. PMID: 10550305.
23. Kim T-H, W M Mars, **DB Stolz**, GK Michalopoulos. Expression and activation of pro-MMP2 and pro-MMP9 during rat liver regeneration. *Hepatology*. 31:75-82. 2000. PMID: 10613731.
24. Nadler EP, LL Go, **D Beer-Stolz**, SC Watkins, LC Schall, P Boyle, HR Ford. Transcellular transport is not required for the transmucosal bacterial passage across the intestinal membrane ex vivo. *Surgical Infections* 1(4): 265-272. 2000. PMID: 12594882.
25. Li B, S Li, Y Tan, **DB Stolz**, SC Watkins, LH Block, L Huang. Lyophilization of cationic lipid-protamine-DNA (LPD) complexes. *J. Pharm. Sci.* 89:355-364. 2000. PMID: 10707016.
26. Runge D, DM Runge, D Jager, KA Lubecki, **DB Stolz**, S Karathanasis, T Kietzmann, SC Strom, K Jungermann, WE Fleig, GK Michalopoulos. Serum-free long-term cultures of human hepatocytes: Maintenance of cell morphology, transcription factors and liver specific functions. *Biochem. Biophys. Res. Com.* 269:46-53. 2000. PMID: 10694475.
27. Jo M, **DB Stolz**, J E Esplen, K Dorko, GK Michalopoulos, SC Strom. Cross Talk between EGFR and c-met Signal Pathways in Transformed Cells. *J. Biol. Chem.* 275:8806-8811. 2000. PMID: 10722725.
28. Runge D, C Kohler, VE Kostrubsky, D Jager, T Lehmann, DM Runge, U May, **DB Stolz**, SC Strom, WE Fleig. GK Michalopoulos. Induction of Cytochrome P450 (CYP)1A1, CYP1A2 and CYP3A4 but not CYP2C9, CYP2C19 multidrug resistance (MDR-1) and multidrug resistance associated protein (MRP-1) by prototypical inducers in human hepatocytes. *Biochem Biophys Res Com.* 273:333-341. 2000. PMID: 10873607.
29. Nadler EP, EC Dickenson, A Kniseley, X-R Zhang, P Boyle, **D Beer-Stolz**, SC Watkins, H R Ford. Expression of inducible nitric oxide synthase and interleukin-12 in experimental necrotizing enterocolitis. *J. Surg. Res.* 92:71-77. 2000. PMID: 10864485.
30. Howard M, X Jiang, **DB Stolz**, WG Hill, J Johnson, SC Watkins, RA Frizzell, C Bruton, P Robbins, OA Weisz, Forskolin-induced membrane insertion of virally-expressed, epitope-

- tagged CFTR in polarized Madin-Darby Canine Kidney Cells. *Am. J. Physiol. Cell Biol.* 279:C375-382. 2000. PMID: 10913004.
31. Lee PC, MR Kibbe, MJ Schuchert, **DB Stolz**, S C Watkins, BP Griffith, TR Billiar, LL Shears, II. Nitric oxide induces angiogenesis and upregulates avb3 Integrin expression on endothelial cells. *Microvascular Research* 60:269-280. 2000. PMID: 11078643.
  32. Rausa FM, Y Tan, H Zhou, KW Yoo, **DB Stolz**, SC Watkins, RR Franks, RH Costa. Elevated levels of HNF-3b influence mouse hepatocyte expression of genes involved in bile acid and glucose homeostasis. *Mol. Cell. Biol.* 20:8264-8282. 2000. PMID: 11027295.
  33. Yaroslavskiy BB, **DB Stolz**, SC Watkins, N Bradbury, SM Alber, RA Steinman. 2001. P27<sup>KIP1</sup> localizes to detergent-insoluble microdomains within lymphocyte membranes. *Molecular Medicine* 7:49-58. 2001. PMID: 11474127.
  34. Wack KE, MA Ross, V Zegarra, SC Watkins, **DB Stolz**. Sinusoidal ultrastructure evaluated during the revascularization of regenerating rat liver. *Hepatology* 33:363-378. 2001. PMID: 11172338.
  35. Beatty P, F-G Hanisch, **DB Stolz**, OJ Finn, P Ciborowski. Biochemical characterization of the soluble form of tumor antigen MUC1 isolated from sera and ascites fluid of breast and pancreatic cancer patients. *Clin. Cancer Res.* 7:781s-787s. 2001. PMID: 11300473.
  36. Larregina AT, SC Watkins, G Erdos, LA Spencer, WJ Storkus, **DB Stolz**, LD Faló, Jr. Direct transfection of Human cutaneous dendritic cells. *Gene Therapy* 8:608-617. 2001. PMID: 11320407.
  37. Monga SPS, P Pediaditakis, K Mule, **DB Stolz**, GK Michalopoulos. Changes in Wnt1/-catenin pathway during regulated growth in rat liver regeneration. *Hepatology*, 33:1098-1109. 2001. PMID: 11343237.
  38. Nadler EP, EC Dickenson, **D Beer-Stolz**, SM Alber, SC Watkins, DW Pratt and HR Ford. Scavenging nitric oxide reduces hepatocellular injury after endotoxin challenge. *Am. J. Physiol. Gastrointest. Liver Physiol.* 281:G173-G181. 2001. PMID: 11408270.
  39. Kalinichenko VV, L Lim, **DB Stolz**, B Shin, FM Rausa, J Clark, JA Whitsett, SC Watkins, RH Costa. Defects in pulmonary vasculature and perinatal lung hemorrhage in mice heterozygous null for the *Forkhead Box f1* transcription factor. *Dev. Bio.* 235:487-507. 2001: PMID: 11437453.
  40. Li H-S, BS Thompson, J-Y Zhang, X-Y Deng, PG Wood, **DB Stolz**, PK Eagon, DC Whitcomb. Cloning rat mitochondrial ATP synthase ATP5G3 gene that is induced in the pancreas with ethanol ingestion. *Physiol. Genomics* 6:91-98. 2001. PMID: 11459924.
  41. Runge DM, TW Stock, T Lehmann, C Taege, U Bernauer, **DB Stolz**, S Hofmann, H Foth. Expression of cytochrome P450 2E1 in normal human bronchial epithelial cells and activation by ethanol in culture. *Arch Toxicol.* 75(6):335-45. 2001. PMID: 11570691.
  42. Chesnoy S, D Durand, J Doucet, **DB Stolz**, and L Huang. Improved DNA/Emulsion complex stabilized by poly(ethylene glycol) conjugated lipid. *Pharmaceutical Research* 18(10):1480-1484. 2001. PMID: 11697477.
  43. Michalopoulos GK, WC Bowen, K Mule, **DB Stolz**. Histological organization in hepatocyte organoid cultures. *Am.J. Path.* 159(5):1877-1887. 2001. PMID: 11696448.
  44. Ross MA, CM Sander, TB Kleeb, SC Watkins, **DB Stolz**. Spatiotemporal expression of angiogenesis growth factor receptors during the revascularization of regenerating rat liver. *Hepatology.* 34:1135-1148. 2001. PMID: 11732003.
  45. Schwarz NT, **D Beer-Stolz**, RL Simmons, AJ Bauer. Pathogenesis of paralytic Ileus. Intestinal manipulation opens a transient pathway between the intestinal lumen and the leukocytic infiltrate of the jejunal muscularis. *Ann. of Surg.* 235(1):31-40. 2002. PMID: 11753040. PMC1422393.

46. Powers MJ, K Domansky, A Upadhyaya, MR Kaazempur-Mofrad, P Kurzawski, KE Wack, **DB Stolz**, R Kamm LG Griffith. A microfabricated array bioractor for perfused 3D liver culture. *Biotechnology and Bioengineering*. 78 (3):257-269. 2002. PMID: 11920442.
47. Phadke SM, V Lazarevic, CC Bahr, K Islam, **DB Stolz**, SC Watkins, SB Tencza, H Vogel, RC Montelaro, TA Mietzner. Lentivirus lytic peptide (LLP1) demonstrates membrane perturbative properties against both the outer and inner membranes of *Serratia marcescens*. *Antimicrobial Agents and Chemotherapy*,46(6):2041-2045. 2002. PMID: 12019137. PMC127261.
48. Kalinichenko VV, Y Zhou, B Shin, **DB Stolz**, SC Watkins, JA Whitsett, RH Costa, Wild type levels of the mouse Forkhead Box f1 gene are essential for lung repair. *Am J Physiol Lung Cell Mol Physiol* 282: L1253-L1265. 2002. PMID: 12003781.
49. Chou J, **DB Stolz**, NA Burke, SC Watkins, A Wells. Distribution of gelsolin and phosphoinositol 4,5-bisphosphate in lamellipodia during EGF-induced motility. *Int. J. Biochem. Cell Biol.* 34:776-790. 2002. PMID: 11950594.
50. **Stolz DB**, R Zamora, Y Vodovotz, PA Loughan, Y-M Kim, TR Billiar, RL Simmons, SC Watkins. Peroxisomal localization of inducible nitric oxide synthase in rat hepatocytes *Hepatology*. 36:81-93. 2002. PMID: 12085352.
51. Powers MJ, DM Janigian, KE Wack, CS Baker, **DB Stolz**, LG Griffith. Functional behavior of primary rat liver cells in a three-dimensional perfused microarray bioreactor. *Tissue Engineering*, 8(3) 513-527.2002. PMID: 12167234.
52. Beckebaum S, VR Cincinnati, G Dworacki, J Muller-Berghaus, **D Stolz**, J Harnaha, TL Whitside, AW Thomson, L Lu, JJ Fung, CA Bonham. Reduction in the circulating pDC1/pDC2 ratio and impaired function of ex vivo-generated DC1 in chronic hepatitis B infection. *Clinical Immunology*, 104(2)138-150. 2002. PMID: 12165275.
53. Ma Z, J Zhang, S Alber, J Dileo, Y Negishi, **D Stolz**, S Watkins, L Huang, B Pitt, S Li. Lipid-mediated delivery of Oligonucleotide to Pulmonary endothelium. *Am. J. Respir. Cell Mol. Biol.* 27:151-159. 2002. PMID: 12151306.
54. Drevon GF, K Danielmeier, W Federspiel, **DB Stolz**, DA Wicks, PC Yu, AJ Russell. High-activity Enzyme-polyurethane coatings. *Biotechnol Bioeng* 79: 785-794.2002. PMID: 12209801.
55. Mo F-E, AG Muntean, C-C Chen, **DB Stolz**, SC Watkins, LF Lau. Cyr61(CCN1) is essential for placental development and vascular integrity. *Mol. Cell. Biol.* 22(24):8709-8720. 2002. PMID: 12446788. PMC139880.
56. Collins JL, Y Vodovotz, C Hierholzer, RT Villavicencio, S Liu, S Alber, D Gallo, **DB Stolz**, SC Watkins, A Godfrey, W Gooding, E Kelly, AB Peitzman, TR Billiar. Characterization of the expression of inducible nitric oxide synthase in rat and human liver during hemorrhagic shock. *Shock*. 19(2):117-122. 2003. PMID: 12578118.
57. Ganta SR, NP Piesco, P Long, R Gassner, LF Motta, GD Papworth, **DB Stolz**, SC Watkins, S Agarwal, Vascularization and tissue infiltration of a biodegradable polyurethane matrix. *J Biomed Mater Res.* 64A:242-248. 2003. PMID: 12522810.
58. Ray P, Y Devaux, **DB Stolz**, M Yarlagadda, SC Watkins, W Liu, Y Lu, X-F Yang, A Ray. Inducible expression of KGF in mice inhibits lung epithelial cell death induced by hyperoxia. *PNAS* 100(10):6098-6103. 2003. PMID: 12732722. PMC156332.
59. Hughes DE, **DB Stolz**, S Yu, Y Tan, JK Reddy, SC Watkins, AM Diehl, RH Costa. Elevated hepatocyte levels of Forkhead Box A2 (HNF3b) transcription factor cause postnatal steatosis and mitochondrial damage. *Hepatology* 37:1414-1424. 2003. PMID: 12774021.
60. Nakao A, K Kimizuka, **DB Stolz**, J Seda Neto. T Kaizu, AM Choi, T Uchiyama, BS Zuckerbraun, AJ Bauer, MA Nalesnik, LE Otterbein, DA Geller, N Murase, Protective

- effect of carbon monoxide inhalation for cold-preserved small intestinal grafts. *Surgery*. 134(2):285-292. 2003. PMID: 12947331.
61. Phadke SM, K Islam, B Deslouches, SA Kapoor, **DB Stolz**, SC Watkins, RC Montelaro, JM Pilewski, TA Mietzner. Selective Toxicity of engineered lentivirus lytic peptides in a CF airway cell model. *Peptides*. 24:1009-2007. 2003. PMID: 14612179.
  62. Nakao A, K Kimizuka, **DB Stolz**, JS Neto, T Kaizu, AMK Choi, T Uchiyama, BS Zuckerbraun, MA Nelesnik, LE Otterbein, N Murase. Carbon monoxide inhalation protects rat intestinal grafts from ischemia/reperfusion injury. *Am J Pathol*. 163 (4): 1587-1598. 2003. PMID: 14507665. PMC1868280.
  63. Chen C, OA Weisz, **DB Stolz**, SC Watkins, RC Montelaro. Differential effects of actin cytoskeleton dynamics on equine infectious anemia virus particle production. *J. Virology* 78(2)882-891. 2004. PMID 14694119. PMC368807.
  64. Maruyama M, N Kobayashi, KA Westerman, M Sakaguchi, JE Allain, T Totsugawa, T Okitsu, A Weber, **DB Stolz**, P Leboulch, N Tanaka. Establishment of a highly differentiated immortalized human cholangiocyte cell line with SV40T and hTERT. *Transplantation* 77(3):446-451. 2004. PMID: 14966424.
  65. Zhang G, X Gao, YK Song, R Vollmer. **DB Stolz**, JZ Gasiorowski, DA Dean D Liu. Hydroporation as the mechanism of hydrodynamic delivery. *Gene Therapy* 8:675-682. 2004. PMID: 14724673.
  66. Kimizuka, K, A Nakao, MA Nalesnik, AJ Demetris, T Uchiyama, K Ruppert, MP Fink, **DB Stolz**, N Murase. Endogenous IL-6 inhibits acute inflammatory responses and prevents ischemia/reperfusion injury after intestinal transplantation. *Am J Transplantation* 4(4):482-94. 2004. PMID: 15023140.
  67. Matsumura T, M Takesue, K Westerman, T Okitsu, M Sakaguchi, T Totsugawa, M Maruyama, T Watanabe, H Noguchi, Y Kosaka, N Shibata, T Kunieda, K Omoto, S Yamamoto, P Leboulch, N Tanaka **DB Stolz**, N Kobayashi. Establishment of an immortalized human liver endothelial cell line with SV40 and hTERT. *Transplantation* 77(9):1357-1365. 2004. PMID: 15167590.
  68. Ding W-X, H-M Ni, D Defrancesco, **DB Stolz**, X-M Yin. Bid-dependent mitochondrial generation of free radicals alters mitochondrial structures and functions following death receptor activation. *Hepatology* 40(2)403-413. 2004. PMID: 15368445.
  69. Lee SB, R Koepsel, **DB Stolz**, HE Warriner, AJ Russell. Self-assembly of biocidal nanotubes from a single-chain diacetylene amine salt. *J. Am. Chem. Soc.* 126(41)13400-5. 2004. PMID: 15479096.
  70. Zhu Y, **DB Stolz**, F. Guo, MA Ross, SC Watkins, BJ Tan, RZ Qi, BH Bay, TS Teo, W Duan. Signaling via a novel integral plasma membrane pool of a serine/threonine protein kinase PRK1 in mammalian cells. *FASEB J* 18: 1722-1724. 2004. PMID: 15375078.
  71. Neto JS, Nakao, A, K Kimizuka, **DB Stolz**, AJ Romanosky, T Uchiyama, MA Nelesnik, LE Otterbein, N Murase. Carbon Monoxide inhalation protects rat kidney grafts from ischemia/reperfusion injury. *Am J Physiol: Renal Fluid & Electrolyte Physiol*. 287(5)F979-89. 2004. PMID: 15292046.
  72. Morelli AE, AT Larregina, WF Shufesky, MLG Sullivan, **DB Stolz**, GD Papworth, AF Zahorchak, AJ Logar, Z Wang, SC Watkins, LD Falo, Jr, AW Thomson. Endocytosis and intracellular sorting of exosomes by dendritic cells. Presentation of exosome derived peptides by dendritic cells in vitro and in vivo. *Blood*. 104(10)3257-3266. 2004. PMID: 15284116.
  73. Nozaki I, JG Lunz III, S Specht, **DB Stolz**, K Taguchi, VM Subbotin, N Murase, AJ Demetris, Small Proline-rich Proteins 2 are Non-coordinately Upregulated by IL-6/STAT3 Signaling after Bile Duct Ligation. *Lab Invest*. 85:109-123. 2005. PMID: 15558059.



74. Oriss TB, Ostroukhova M, Seguin-Devaux C, Dixon-McCarthy B, **Stolz DB**, Watkins SC, Pillemer B, Ray P, Ray A. Dynamics of dendritic cell phenotype and interactions with CD4+ T cells in airway inflammation and tolerance. *J Immunology* 174(2):854-863. 2005. PMID: 15634907.
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76. Gkretsi V, Y Zhang, Y Tu, K Chen, **DB Stolz**, SC Watkins and C Wu. Physical and functional association of migfilin with cell-cell adhesions. *Journal of Cell Science*. 118(4):697-710. 2005. PMID: 15671069.
77. Li HS, **Stolz DB**, Romero G. Characterization of endocytic vesicles using magnetic microbeads coated with signaling ligands. *Traffic* 6(4):324-334. 2005. PMID 15752137
78. Gilbert TW, **DB Stolz**, F Biancaniello, A Simmons-Byrd, SF Badylak. Production and characterization of particulate ECM: Implications for tissue engineering applications. *Biomaterials* 12:1431-1435. 2005. PMID: 15482831.
79. Savva M, A Aljaberi, J Feig, **DB Stolz**. Correlation of the physicochemical properties of symmetric 1,3-dialkoylamidopropane-based cationic lipids containing single primary and tertiary amine polar head groups with in vitro transfection activity. *Colloids Surf B Biointerfaces* 43(1):43-47.2005. PMID: 15916888.
80. Lagoa CE, Y Vodovotz, **DB Stolz**, F Lhuillier, C McCloskey, D Gallo, R Yang, E Ustinova, MP Fink, TR Billiar, WM Mars. Contribution of Type 1 Plasminogen Activator Inhibitor (PAI-1) to Hepatic Injury during Hemorrhagic Shock. *Hepatology* 42:390-399. 2005. PMID: 16025510.
81. Kostrubsky SE, JF Sinclair, SC Strom, S Wood, E Urda, **DB Stolz**, YH Wen, S Kulkarni, A Mutlib. Phenobarbital and phenytoin increased acetaminophen hepatocytotoxicity due to inhibition of UDP-glucuronosyltransferases in cultured human hepatocytes. *Toxicol Sci*. 87(1):146-55. 2005. PMID: 15933229.
82. Ferguson BJ, **DB Stolz**. Demonstration of biofilm in human bacterial chronic rhinosinusitis. *Am J Rhinol*. 19(5):452-7. 2005. PMID: 16270598.
83. Loughran PA, **DB Stolz**, Y Vodovotz, SC Watkins, RL Simmons, TR Billiar. Monomeric iNOS localizes to peroxisomes in hepatocytes. *Proc Natl Acad Sci* 102(39):13837-42. 2005. PMID: 16172396. PMC1216830.
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### **Book Chapters**

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3. Papworth, GD, **DB Stolz**, and S.C. Watkins. Imaging Dendritic Cells: A Primer. In: Dendritic Cells. Biology and Clinical Applications. 2nd Edition. Eds. Lotze, ME, Thomson, AW. 2001. Academic Press, San Diego, pp 231-242.
4. Khan, Z, JM Crawford, **DB Stolz**. Hepatocyte Ultrastructure. In: Oxford Textbook of Hepatology, 3<sup>rd</sup> Edition. JP Benhamou, A. Blei, J-F Dufour, P. Ginès, S. Friedmann, J. Reichen, J. Rodes, C. Valla, F. Zoulim Editors. 2007. Pp 20-28.
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6. Fink MP, **Beer-Stolz D**, Liu S, Sappington P, and Delude RL. Epithelial Barrier Dysfunction as a Mechanism Underlying the Pathogenesis of Multiple Organ Dysfunction. In Critical Care Nephrology, 2<sup>nd</sup> Ed. (Eds C Ronco, R Bellmo, J Kellum; Elsevier) 2009. pp.808-814.
7. **Stolz, DB**. Liver Sinusoidal Endothelial Cells. In: Molecular Pathology of Liver Diseases. Ed. SP Monga, Springer) 2011. pp. 97-107.

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## **PROFESSIONAL ACTIVITIES**

### **TEACHING**

#### **Outside of University of Pittsburgh**

- |                  |  |
|------------------|--|
| <b>1986-1989</b> | <b><u>UNIVERSITY OF MASSACHUSETTS, AMHERST, MA</u></b><br><b><u>Biochemistry Laboratory for Majors.</u></b> Teaching assistant.<br>Taught major biochemistry techniques (enzyme isolation and kinetics, metabolic labeling, TLC, chromatography, gel electrophoresis, western blotting and molecular biology and cloning) to junior and senior biochemistry majors. Prepared and administered quizzes and exams, graded lab reports. |
| <b>1987-1990</b> | <b><u>Cell Biology.</u></b> Teaching assistant and guest lecturer.<br>Graded exams and gave yearly 2 day lectures on collagen synthesis, protein synthesis, glycosylation, trafficking and secretion as well as cell polarity development and maintenance.   |
| <b>1987</b>      | <b><u>Senior Seminar. Instructor.</u></b><br>Library research and writing course for advanced honors biochemistry students in the discipline of developmental biology.   |

*Curriculum Vitae*  
*Updated August 11, 2016*

*Donna Beer Stolz, Ph.D.*

**1988**                    **Using Computers in Biochemistry (senior honors course). Instructor**  
Using computers to aid in library research. Examined and applied molecular modeling software to molecule structure and design as well as implementing spreadsheet and graphics programs for biochemistry data analysis, especially enzyme kinetics and pH determination of buffers.

**1986-1990**            **Undergraduate and Graduate Independent Research Projects, UMass, Amherst**  
Supervisor. Supervised research projects of 5 undergraduate independent study and honors students and 2 first year graduate student rotations in my graduate laboratory at UMass. One undergraduate student (Stolz, Bannish & Jacobson, 1992) and one graduate student (Stolz, Mahoney & Jacobson, 1992) co-authored papers on specific aspects of my research.

#### **DUQUESNE UNIVERSITY**

**Fall 1995**            **General Biology I. Duquesne University, Pittsburgh, PA.**  
Visiting Faculty. Taught General Biology I (evolution, ecology, animal and plant diversity) to Biological Science and Health Science Majors. 50 students, 2 x 1.5 hr lectures/week.

#### **UNIVERSITY OF PITTSBURGH GRADUATE SCHOOL TEACHING:**

**Foundations in Biomedical Science**, (S. Phillips, coordinator) Lecture Title: Protein import into peroxisomes and mitochondria.

**Fall 1999** (45 students 1 hr lecture)

**Fall 2000** (40 students 1 hr lecture)

**Foundations in Biomedical Science**, Michael Tsang, coordinator) Lecture Title: Protein import into endoplasmic reticulum, mitochondria and peroxisomes.

**Fall 2012** 25 students 1.0 hours.

**Fall 2013** 25 students 1.5 hours. (Evaluation: 4/5)

**Fall 2014** 25 students 2.0 hours (Evaluation )

**Molecular Mechanisms of Tissue Growth and Development MSCMP 2730** (S. Katyal/ A Bell Directors). Lecture title: Angiogenesis and Vasculogenesis

**Spring 2000** (15 students, 1 hr lecture)

**Spring 2001** (15 students, 1 hr lecture)

**Spring 2002** (15 students, 1 hr lecture)

**Spring 2003** (15 students, 1 hr lecture)

**Spring 2004** (6 students, 1 hr lecture)

**Spring 2005** (8 students, 1 hr lecture, Teaching evaluation 4.4/5)

**Spring 2006** (16 students, 1 hr lecture, Teaching evaluation 4.5/5)

**Spring 2007** (18 students, 1 hr lecture)

**Spring 2008** (18 students 1 hr lecture)

**Spring 2009** (18 students 1 hr lecture)

**Spring 2010** (22 students, 1 hr lecture)

**Spring 2011** (14 students, 1 hr lecture)

**Graduate Histology MSCBMP 2870** (G. Duker, Director) Lecture topic: Liver, Gall Bladder and Pancreas.

**Spring 2000** (4 students, 1 hr lecture)

**Fall 2001** (5 students, 1 hr lecture)

**Fall 2002** (4 students, 1 hr lecture)

**Spring 2004** (4 students, 1 hr lecture)

**Spring 2006** (4 students, 1 hr lecture)

**Spring 2011** (4 students 1 hr lecture)

**Spring 2012** (6 students 1 hr lecture)

**Spring 2013** (3 students, 1 hr lecture)

**Spring 2014** (3 students, 1 hr lecture)

**Spring 2015** (6 students, 1 hr lecture)

**Spring 2016** (4 students, 1 hr lecture)

**Angiogenesis MSCMP 3750** (Shiyuan Cheng and G. Michalopoulos, Directors) 3 x 1.5 hr  
**2003-2012:**

lectures: Topics:

Lecture 1: Angiogenesis in Development and Organogenesis.

Lecture 2: Angiogenesis in Wound Healing and Ischemic Diseases.

Lecture 3: Endothelial Cell Precursors and Their Application in Therapy.

**Spring 2003** (2 students, 3 lectures, 4.5 hr total)

**Spring 2004** (4 students, 3 lectures, 4.5 hr total)

**Spring 2005** (5 students, 3 lectures, 4.5 hr total)

**Spring 2006** (4 students, 3 lectures, 4.5 hr total, Eval 4/5)

**Spring 2007** (5 students, 3 lectures, 4.5 hr total Eval 4.5/5)

**Spring 2008** (4 students, 3 lectures, 4.5 hr total)

**Spring 2009** (4 students, 3 lectures, 4.5 hr total Eval 4.3/5)

**Spring 2010** (14 students, 3 lectures, 4.5 hr total, Eval 4.3/5)

**Spring 2011** (14 students 3 lectures 4.5 hr total, Eval 4.5/5)

Lecture 1: Techniques to study angiogenesis and blood flow & vascular bed specialization during organogenesis.

Lecture 2: Angiogenesis in Wound Healing and Ischemic Diseases.

Lecture 3: Endothelial Cell Precursors and Their Application in Therapy.

**Spring 2012** (12 Students 3 lectures 4.5 hr total Eval 4.375/5)

**Angiogenesis MSCMP 3750** This course was re-organized in 2013 after the 2012 departure of Shiyuan Cheng. The course is now co-directed by Drs. Shanmugam Nagarajan and Donna Stolz. Lectures were modified and changed to accommodate changing needs of the students.

**Spring 2013, 2014:**

Lectures: 4 Lectures, 5 hrs total.

Topics

Lecture 1: Endothelial Cell Biology I

Lecture 2: Endothelial Cell Biology II

Lecture 3: Angiogenesis in Wound Healing and Ischemic Diseases

Lecture 4: Endothelial cell precursors and Their Application in Therapy

**Spring 2014:** 4 lectures 5 hrs, 8 students.

**Spring 2015:** 4 lectures, 5 hrs, 9 students

**Spring 2016:** 1 lecture 1.5 hr. 8 Students. Endothelial cell Biology: Histology.

**Multiparametric Microscopic Imaging MSCBMP 2860** (Co-Directed by DB Stolz and CM St. Croix 2009- present). 2 hr lectures with labs 2 x per week. Topics covered:

Lecture 1 & 2: Cell and Tissue Labeling

Lecture 3: TEM & SEM

Lecture 4: EM processing

Lecture 5: Special Topics in Electron Microscopy

Lecture 6: Ethical Image processing and Using Photoshop to Make Figures for Publication

**Summer 2004** (12 students, 5 lectures, 10 hr total)

**Summer 2005** (7 students, 6 lectures, 12 hr total)

**Summer 2007** (8 students, 5 lectures, 10 hr total)

**Summer 2009** (6 students, 4 lectures, 8 hrs total)

**Summer 2011** (10 students, 5 lectures, 10 hrs total)

**Summer 2012** (8 students, 5 lectures, 10 hrs total)

**Summer 2013** (9 students, 5 lectures, 10 hrs total)

**Summer 2014** (6 students, 5 lectures, 10 hrs total)

**Summer 2015** (7 students, 6 lectures, 12 hrs total)

**Summer 2016** (5 students, 6 lectures, 12 hrs total)

**Cell Therapy Bioeng/MSCMP 3770** (Stephen Strom). Lecture topic: Vascular Endothelial cell chimerism: Fact or Fiction? Dr Strom left Pitt 2012.

**Summer 2004** (10 students 1 lecture, 1.5 hr)

**Summer 2005** (10 students, 1 lecture, 1.5 hr)

**Summer 2006** (5 students, 1 lecture, 1.5 hr)

**Summer 2007** (6 students, 1 lecture, 1.5 hr, Teaching Eval 4.5/5)

**Summer 2008** (6 students, 1 lecture, 1.5 hr)

**Summer 2010** (6 students 1 lecture, 1.5 hr)

**Pathophysiology of Disease EOH 2203** (Claudette St. Croix) Lecture topic: The Liver

**Spring 2008** (3 students 1 lecture 1.5 hr)

**Spring 2009** (6 students 1 lecture 1.5 hr)

**Spring 2011** (6 students 1 lecture 1.5 hr)

**Spring 2013** (8 Students 1 lecture 1.5 hr)

**Spring 2015** (12 students 2 x 1.5 hr lectures)

**Functional Tissue Engineering/Bioeng 2072**

Lecture 1: Immuno-labeling

Lecture 2: Angiogenesis

**Fall 2008:** (15 students 2 lectures 3 hr)

**Scientific Ethics INTBP 2290** (John Horn, Course Director)

Lecture: Record Keeping and Ethical Data Presentation

**Summer 2010:** (~35 students, 1 hr Evaluation 4.36/5)

**Summer 2011:** (~35 students, 1 hr Evaluation 4.36/5)

**Summer 2012:** (~ 35 students, 1 hr Evaluation 4.38/5)

**Summer 2013:** (~35 students, 1 hr)

**Summer 2014:** (~35 students 1 hr Evaluation 4/5)

**Summer 2015:** (~35 students 1 hr Evaluation 4.68/5)

**Summer 2016:** (~35 students 1 hr )

**Scientific Ethics MSNBIO2010** (Carl Lagenaur, Course director)

Ethical Data Presentation

**Summer 2014:** (8 students, 1 hr)

**Summer 2015:** (12 students, 1 hr)

**Cell Biology of Normal and Diseased States MSCBMP 2880**

Lecture 1 Cell migration and the Cytoskeleton (1.5 hr)

Lecture 2 Wound healing /Angiogenesis (1.5 hr)

2 Discussion sections/literature 1 hr each.

**Spring 2011** (7 students, Eval 4.83/5)

**Spring 2012** (5 students)

**Spring 2013** (2 students)

**Spring 2015** (6 students)

**Experiments and Logic in Cell Biology MSCBMP 2875**

Facilitator: Student-directed longitudinal course exploring the interplay between hypothesis generation and experimental methods in cell biology. Small group active learning.

**Spring 2012:** 7 students

**Fall 2012:** 8 students

**Spring 2013:** 6 students

**Fall 2013:** 4 students

**Spring 2014:** 3 students.

**Fall 2014:** 4 students

**Spring 2015:** 6 students

**Fall 2015:** 7 students

**Spring 2016:** 6 students

**Extracellular Matrix in Tissue Biology and Bioengineering MSCMP 3735**

Lecture: Imaging extracellular matrix.

**Fall 2013:** (17 students, 1.5 hr lecture)

**Fall 2014:** (12 students 1.5 hr lecture)

**Fall 2015 :** (12 students 1.5 hr lecture)

**Cellular Physiology of the Kidney MSCBMP2895**

Histology and imaging in the kidney

**Summer 2013** (12 students 1.5 hr lecture)

**Summer 2014** (8 students 1.5 hr lecture)

**Summer 2015** (7 students 1.5 hr lecture)

**Summer 2016** (8 students 1.5 hr lecture Eval 4.5/5)

**UNIVERSITY OF PITTSBURGH MEDICAL SCHOOL TEACHING:**

**Cell Structure, Metabolism and Nutrition** (S. Morris, Coordinator) PBL facilitator for Medical Students

**Fall 1999** (9 students, 12 classes, 18 hr, Evaluation 3.0/5)

**Fall 2000** (9 students, 12 classes, 18 hr, Evaluation 4.0/5)

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## **Cellular and Pathologic Basis of Disease Course, 1<sup>st</sup> Year Medical Student Curriculum:**

### **1. Problem Based Learning Case Studies Facilitator (discontinued 2008)**

- Fall 2004** (9 students, 4 classes, 1.5 hr/class Eval 4.11/5)
- Fall 2005** (9 students, 4 classes 1.5 hr /class, Eval 4.6/5)
- Fall 2006** (9 students 4 classes 1.5 hr/class Evaluation4.5/5)
- Fall 2007** (9 students 4 classes 1.5 hr/classEvaluation:4.5/5)

### **2. Histology Instructor, First Year Medical Students (5 labs: Epithelial lab, Connective tissue lab, Cartilage and Bone lab, Muscle lab, Nerve lab, Vascular lab).**

- Fall 2004** (~35 students, 5 labs, 7.5 hr total, Evaluation: 4.48/5)
- Fall 2005** (~35 students, 5 labs, 7.5 hr total, Evaluation: 4.6/5)
- Fall 2006** (~35 students 5 labs, 7.5 hr total, Evaluation: 4.5/5)
- Fall 2007** (~35 students 5 labs, 7.5 hr total, Evaluation: 4.5/5)
- Fall 2008** (~35 students 5 labs, 7.5 hr total, Evaluation: 4.5/5)
- Fall 2009** (~35 students 5 labs, 7.5 hr total, Evaluation: 4.7/5)
- Fall 2010** (~35 students 5 labs, 7.5 hr total, Evaluation: 4.9/5)
- Fall 2011** (~35 students 5 labs, 7.5 hr total, Evaluation: 4.9/5)
- Fall 2012** (~35 students 5 labs, 7.5 hr total, Evaluation:)
- Fall 2103** (~35 students, 5 labs, 7.5 hr total, Evaluation 4.6/5)
- Fall 2015** (~35 Students, 5 labs, 7.5 hr total, Evaluation 5/5)

### **3. Histology Workshop Facilitator, First Year Medical Students.**

- Fall 2004** (9 students, 3 workshops, 4.5 hr total, Eval. 4.7/5)
- Fall 2005** (9 students, 3 workshops, 4.5 hr total, Eval. 4.6/5)
- Fall 2006** (9 Students, 3 workshops 4.5 hr total Eval. 4.5/5)
- Fall 2007** (9 Students, 3 workshops 4.5 hr total Eval 4.5/5)
- Fall 2008** (9 Students, 3 workshops 4.5 hr total Eval 4.5/5)
- Fall 2009** (9 students 3 workshops 4.5 hr total Eval 4.7/5)
- Fall 2010** (9 students 3 workshops 4.5 hr total Eval 4.9/5)
- Fall 2011** (9 students 3 workshops 4.5 hr total Eval 4.9/5)
- Fall 2012** (9 students 3 workshops 4.5 hr total Eval 4.9/5)
- Fall 2013** (9 students 3 workshops 4.5 hr total Eval 4.9/5)
- Spring 2015** (9 students 3 workshops 4.5 hr total, Eval 5/5)
- Spring 2016** (9 students 3 workshops 4.5 hr total, Eval 5/5)

### **4. Cellular and Pathological Basis of Disease MED 5115. Medical Student Teaching: MS1:**

Lecture: Angiogenesis and Vasculogenesis

- Fall 2005:** (120 students, 50 min lecture, Evaluation 3.0/5).
- Fall 2006:** (120 Students, 50 min Lecture, Evaluation 3.1/5)
- Fall 2007:** (120 Students, 50 min Lecture, Evaluation 3.3/5)
- Fall 2008:** (120 Students, 50 min Lecture, Evaluation 3/5)
- Fall 2009:** (120 students, 50 min lecture Evaluation 3.2/5)
- Fall 2010:** (120 students, 50 min lecture Evaluation 3.6/5)
- Fall 2011:** (120 students, 50 min lecture Evaluation 4.4/5)
- Fall 2012:** (120 students, 50 min lecture Evaluation 4/5)



**Fall 2013:** (120 students, 50 min lecture Evaluation 4.5/5)

**Fall 2015:** (120 students, 50 min lecture, Evaluation 3.7/5)

#### **5. Cutaneous Wound Healing Team Based Learning**

**Spring 2011** (120 students, 120 min Team-based interactive workshop)

**Fall 2011** (18 students, 120 min Team-based interactive workshop)

**Fall 2012** (18 students, 120 min Team-based interactive workshop Eval 4.3/5)

**Fall 2013** (18 students, 120 min Team-based interactive workshop)

**Spring 2015** (18 students, 120 min Team-based interactive workshop, Eval 4.7/5)

**Spring 2016** (18 students, 120 min Team-based interactive workshop, Eval )

#### **Fuel and Metabolism: Medical Student Year 1**

Problem Based Learning Facilitator:

**Spring 2007** (9 students, 2 classes 1.5 hr/class Evaluation 4.3/5)

**Spring 2008** (9 students, 3 classes 1.5 hr/class Evaluation 4.4/5)

#### **5. Digestion and Nutrition, Medical Student Year 2: Histology Labs.**

Lab 1&2: Oral Cavity, Esophagus, Stomach, Lab 3: Small & Large Intestine, Lab 4: Liver, Gall Bladder, Pancreas.

**Fall 2004** (~35 students, 3 labs, 4 hr total time)

**Fall 2005** (~35 students, 3 labs, 4 hr total time)

**Fall 2006** (~35 students, 3 labs, 4 hr total time)

**Fall 2007** (~35 students, 3 labs, 4 hr total time)

**Fall 2008** (~35 students, 3 labs, 4 hr total time Eval 4.3/5)

**Fall 2009** (~35 students 2 labs 3 hr total time)

**Fall 2010** (~35 students 2 labs 3 hr total time Eval 4.3/5)

**Fall 2011** (~35 students 2 labs 3 hr total time)

**Fall 2012** (~35 students 2 labs 3 hr total time)

**Fall 2013** (~35 students 2 labs 3 hr total time)

**Fall 2014** (~35 students 3 labs 3 hr total time Eval 4.5/5)

**Fall 2015** (~35 students 3 labs 3 hr total time)

**Fall 2016** (~35 students 3 labs 3 hr total time)

#### **6. Body Fluid Homeostasis Medical Student Year 2 Histology labs**

Lab 1 Renal Segment, Lab 2 Pulmonary Segment

**Fall 2006** (~35 students 2 labs, 3 hr total time)

**Fall 2007** (~35 students 2 labs, 3 hr total time)

**Fall 2008** (~35 students, 2 labs, 3 hr total time)

**Fall 2009** (~ 35 students 2 labs 3 hr total time)

**Fall 2011** (~35 students 2 labs 3 hr total time)

**Fall 2012** (~35 students, 2 labs, 3 hr total time)

**Fall 2013** (~35 students, 2 labs, 3 hr total time)

**Fall 2014** (~35 students, 2 labs, 3 hr total time)

**Fall 2014** (~35 students, 2 labs, 3 hr total time)

**Fall 2015** (~35 students, 2 labs, 3 hr total time)

**Fall 2016** (~35 students, 2 labs, 3 hr total time)

#### **7. Endocrine Medical Student Year 2 Histology labs**

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**Spring 2007** (~35 students 1 lab, 1.5 hr total time)

**Spring 2008** (~35 students 1 lab 1.5 hr total time)

**Spring 2009** (~35 students 1 lab 1.5 hr total time)

**Spring 2015** (~35 students 1 lab 1.5 hr total time)

**Spring 2016** (~35 students 1 lab 1.5 hr total time)

#### **8. Reproduction Medical Student Year 2 Histology Labs**

**Spring 2009** (~35 students 1 lab 1.5 hr total time)

#### **9. Methods and Logic in Biomedicine 2.**

**Facilitator for 2<sup>nd</sup> year Tsinghua Medical Student Visiting Scholars.**

**Fall 2013** 4 x 2 hour classes.

**Spring 2014** 4 x 2 hour classes.

**Fall 2014** 4 x 2 hour classes.

**Spring 2015** 4 x 2 hour classes.

#### **10. Evidence Based Medicine, (MS1)**

**Spring 2016:** Facilitator 3 x 2 hr classes Experimental design.

### **UNIVERSITY OF PITTSBURGH UNDERGRADUATE TEACHING**

**Undergraduate Honors College: Medical History Med 2101** (G. Duker, Director). Lecture Topic: Imaging Techniques as They Advance Biomedical Science.

**Spring 2002** (3 students 1.5 hr lecture)

**Spring 2004** (3 students 1.5 hr lecture)

**Spring 2005** (3 students 1.5 hr lecture)

**Spring 2007** (4 students 1.5 hr lecture)

**Spring 2010** (10 students 1.5 hr lecture)

**Spring 2011** (6 students 2 hr lecture and lab)

**Spring 2013** (8 students 2 hr lecture and lab)

**Spring 2014** (8 students, 2 hr lecture and lab)

**Spring 2015** (8 students, 2 hr lecture and lab)

### **STUDENT SUPERVISION**

**1998-Present Summer Undergraduate Research Program (SURP), Cell Biology and Physiology, University Pittsburgh Medical School.** Mentored undergraduates interested in Biomedical sciences through 10+ week stipended summer research program.

Participating Students:

Katy Wack (1998-1999 Carnegie Mellon University) Pitt Cell Biology Graduate Student 2010-2014.  
Clinical Scientist Omnyx, GE Healthcare

Vasthy Zegarra (1998-1999 Washington and Jefferson University) Physical Therapist

Jamie Popovich (1999 University of Pittsburgh) PhD Biomedical Researcher

Alex Ryan (2000 Oberlin, Co-mentored with Wendy Mars) Radiologist (MD)

Christina Sander (2001 Pitt; Howard Hughes Undergraduate Fellow) Biotech/Bioengineer

Talia Kleeb (2002 Penn State) Pharm D.

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Anna Romanosky (2003-2004 University of Pittsburgh) Physical Therapist  
 Amy Bruecken (2003-2004 University of Pittsburgh) Dietitian  
 Heipeng Zhang (2003 University of Pittsburgh) Medical Doctor (DO) Harvard University  
 Jennifer Hauck (2005 Penn State) Physician Assistant  
 Vijay Mittal (2006 University of Pittsburgh, Johnstown) Medical Doctor (MD) Radiology  
 Angela Arbach (2006 New York University, co-mentored with Mitchell Fink). Medical Resident, NYU  
 Elizabeth Iannone (2007, University of Pittsburgh). Emergency Room Medical Doctor (MD)  
 Harina Vin (2009, Rice University) Medical School, Baylor.  
 Carrie Rothermel Hamilton (2010, University of Pittsburgh) in Medical School, Temple.  
 Robert Theiss (2012, 2013, Allegheny College) Graduate of Allegheny College, Health Promoter at  
 Federal Clinic, Attending Pitt Medical School  
 Lauren Goldschen (2013, 2014, University of Pittsburgh) Attending Pitt Medical School in 2015.  
 Kelsey Pilewski (2015, University of Buffalo) Applying to Graduate Schools.

**Summer 2001 Summer Research Experience for Undergraduates. Department of Bioengineering.**  
 Mentored bioengineering undergraduates through 10+ week stipended summer research program.  
 (Student: Katie O'Callaghan 2003, Works for the FDA).

### **Other Undergraduates**

Hebah Salem (Pitt) Student researcher, 1995-1997.  
 Mark (Heipeng) Zhang. (Pitt) Summer Undergrad researcher 2002.  
 Elizabeth Iannone (Pitt) Summer Undergrad researcher 2006.  
 Ambika Hina Sharma (Oxford UK, & George Washington U. BS/Med) Researcher 2007;  
 Carrie Rothermel (Pitt) 2007-2011. Student worker  
 Rebecca Robbins (Summer 2009, Summer 2011, Dickinson College).  
 Yaminah Romulus (Pitt, First Experiences in Research, Spring 2010, to 2014).  
 Jason Stearns (CMU) Senior Fall Research Credit, 2010, Spring 2011-2014 In Medical School VTU  
 Andrew Barchowsky, Pitt Johnstown, Summer 2011. Geology major  
 Ryan Romanosky, 2011- 2014. Pitt main campus  
 Lauren Goldschen (Spring 2012 Pitt First Experiences in Research)  
 Nikki Naim, Summer 2013. SUNY Binghamton

### **Graduate Student Mentorships:**

- Barbara Murray Fenner (2002-2004, Co-Mentored with Cristian Achim, Pathology). Currently assistant professor of Biology at King's College, Scranton, PA.
- Zahida Khan (2003-2006, MSTP student, Co-mentored with George Michalopoulos, Pathology). Currently Pediatric Gastroenterologist at Children's Hospital, Pittsburgh.
- Kathryn E. Wack (2011-2014, Co-mentored with Laura Niedernhofer, Cell Biology) Currently Clinical Scientist at Omnyx, a GE Healthcare company.

### **Graduate Rotation Students:**

Clayton Yates  
 Ee Wern Su  
 Roxana Teisanu  
 Martha Milton  
 Barbara M. Fenner  
 Zahida Khan  
 Hilaire Lam  
 Rohan R. Manohar

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Kathryn E (Wack) Joseph  
James Zewe

### **Comprehensive examination Committees (Cell Biology and Physiology)**

Kelly Weixel  
Mark Silvis  
Roxana Teisanu  
Anna Zemke  
Kathryn Covella (withdrew from program)  
Xinxian Qiao  
Christine Klemens  
Lia Edmunds

### **Ph.D. Dissertation Committee Memberships (completed):**

- Minji Jo, Ph.D Pathology, University of Pittsburgh, (Mentor: Stephen Strom) Graduated 2000
- Tae-Hyoung Kim, Ph.D. Pathology, University of Pittsburgh, (Mentor: George Michalopoulos) Graduated 1999
- Jeff Chou M.D. Ph.D., Pathology, University of Pittsburgh (Mentor: Alan Wells) Graduated 2002, MSTP
- Barbara Murray Fenner Ph.D., Pathology, University of Pittsburgh (Co-Mentor with Cris Achim) Graduated 2004
- Albert Hwa, Ph.D, Bioengineering, MIT (Mentor: Linda Griffith) Graduated 2005
- Clayton Yates, Ph.D., Pathology, University of Pittsburgh (Mentor: Alan Wells) Graduated 2005
- Zahida Khan, M.D., Ph.D, Pathology, University of Pittsburgh, (Co-Mentor with George Michalopoulos) **Chair**. Graduated 2006, MSTP
- Jennifer Johnson, M.D., Ph.D, Pathology, University of Pittsburgh (Mentor: Jean Latimer) Graduated 2006, MSTP
- Alexa Polk Ph.D., Bioengineering, University of Pittsburgh, (Mentor: William Wagner), Graduated 2006
- Vasiliki Gkretsi, Ph.D., Pathology, University of Pittsburgh (Mentor, Cary Wu) Graduated 2006
- Joseph Moritz, Ph.D., Chemical Engineering, MIT (Mentor: Linda Griffith) Graduated 2007
- Christopher Shepard, Ph.D., Pathology, University of Pittsburgh (Alan Wells, mentor) **Chair**. Graduated 2007.
- Benjamin Cosgrove, Bioengineering, MIT (Mentor Linda Griffith) Graduated 2008
- Tiffany Sellaro, Bioengineering, University of Pittsburgh (Stephen Badylak, Mentor) Graduated 2008
- Xin He, Pathology, University of Pittsburgh (Marie C. DeFrances, Mentor) Graduated 2008
- Adam Straub, University of Pittsburgh, Environmental & Occupational Health (Aaron Barchowsky, Mentor) Graduated 2008.
- Sherrie DiVito, Immunology, University of Pittsburgh (Adrian Morelli, Mentor) Graduated 2009. MSTP
- Judson M Englert, Pathology University of Pittsburgh (Tim Oury, Mentor) Graduated 2009, MSTP
- Jianping Zhao, Pathology, University of Pittsburgh (Cary Wu, Mentor) Graduated 2009.
- Dan Wang, Pathology, University of Pittsburgh (Youhua Liu, Mentor), Graduated 2010.
- Paulina H. Liang, Pathology, University of Pittsburgh (Luyuan Li, Mentor) **Chair**, Graduated 2010

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- Nisanne Ghonem, School of Pharmacy, University of Pittsburgh, (R Venkataramanan, Mentor) Graduated 2010
- Hilaire Lam, Pathology, University of Pittsburgh (Augustine Choi, Mentor, Harvard) Graduated 2011.
- Siobhan Gregg, Cell Biology and Molecular Physiology (Laura Niedernhofer, Mentor) Graduated Oct. 2011. **Chair**
- Natasha Corbitt, Pathology, University of Pittsburgh, (A. Jake Demetris, Mentor) **Chair**. Graduated 2011, MSTP
- Ta-Chun Hang, Bioengineering, MIT (Mentor, Linda Griffith), Graduated Dec 2011.
- Pavle Milutinovic, Pathology, University of Pittsburgh (Tim Oury, Mentor) ATP T32 Fellow. Graduated 7/2012. MSTP, **Chair**,
- Sarah Beckman, Pathology, University of Pittsburgh (Johnny Huard, Mentor) Graduated 11/2012.
- Marc C Hansel, Pathology, University of Pittsburgh (Steve Strom, Mentor) Graduated Nov 2012
- Prince Kwaku Awuah, Pathology University of Pittsburgh, (Paul Monga, Mentor)\*\*\*\*Replaced after 3 years when CATER fellowship required a Bioengineering Faculty\*\*\*\*.
- Liang-I Kang, Pathology University of Pittsburgh, (Wendy Mars, Mentor) Graduated March 2013, MSTP
- Emily Boyd Wickline, Pathology University of Pittsburgh, (Paul Monga, Mentor) Graduated Dec 2012
- Qian Sun (Katie), Pathology, University of Pittsburgh (Timothy Billiar, Mentor) Graduated 6/24/2013
- Brian Roseborough, Immunology, University of Pittsburgh (Angus Thomson, Mentor) Graduated 7/2013 MSTP
- Nina Chi Sabans, Immunology, University of Pittsburgh (Walter Storkus, Mentor) Graduated 7/2013
- Mary Beth Wilson, Biological Engineering, Carnegie Mellon University (Phil LeDuc, Mentor) Graduated 7/2013
- Jonathan Proto, Pathology, University of Pittsburgh (Johnny Huard, Mentor) Graduated 9/2013
- Brian Sicari, Pathology, University of Pittsburgh (Stephen Badylak, Mentor) **Chair** Graduated 11/2013
- Allison Bean, Bioengineering, University of Pittsburgh (Rocky Tuan, Mentor) Graduated 11/2013, MSTP
- William Veon, Bioengineering, University of Pittsburgh (Partha Roy, Mentor) ATP T32 fellow, Graduated 3/2014.
- Ebtisam El Filali, University of Amsterdam, The Netherlands, Mentor, Jurgen Seppen. Defended 4/2014.
- Kathryn E. Wack, Cell Biology and Molecular Physiology, University of Pittsburgh **Mentor**. Graduated 7/2014.
- Edgar Tafaleng, Pathology, University of Pittsburgh (Ira Fox, Mentor) **Chair**. Graduated 2/2015
- Andrew Hertsenbergh, Molecular Genetics and Developmental Biology, University of Pittsburgh (Jim Funderburgh, Mentor) Graduated 4/23/2015.
- Elizabeth Oczypok (MSTP, Pathology, University of Pittsburgh, Tim Oury, Mentor) **Chair** Graduated 6/25/2015.

- Austin Nuschke (Pathology, University of Pittsburgh, Alan Wells, Mentor) **Chair**. Graduated 10/30/2015
- Hassan Awada (Bioengineering, University of Pittsburgh, Yadong Wang, Mentor) Graduated 3/22/16
- Timothy Keane (Bioengineering, University of Pittsburgh, Stephen Badylak, Mentor) Graduated 6/2016
- Johannes Kutten (MSTP, Pathology, University of Pittsburgh, Jeffrey Isenberg, Mentor) Graduated 8/11/2016

**Ph.D. Committee Memberships (current):**

- Alexander Kikuchi (MSTP, Pathology, University of Pittsburgh, Paul Monga, Mentor)
- Ahmad Khazali (Pathology, University of Pittsburgh, Alan Wells, Mentor) **Chair**
- Vera Procaccia (Pharmacology, University of Pittsburgh, Alessandro Biselli, Mentor)
- Rochelle Fletcher (Pharmacology, University of Pittsburgh, Lin Zhang, Mentor)
- Aliyah Weinstein (Immunology, University of Pittsburgh, Walter Storkus, Mentor)
- Xu Yang (Dental School, University of Pittsburgh, Elia Beniash, Mentor)
- Jenna Dziki (Bioengineering, Stephen Badylak, Mentor)
- Tiffany Bernardo (Pathology, University of Pittsburgh, Yaakov Barak, mentor) **Chair**
- Shelby Hemler (Molecular Genetics and Developmental Biology, Jackie Ho, Mentor)

**Scholarly Project/Medical School**

- Philip Hyo Suh (summer 2014-) Vascular changes in various ERCC tissues and in cell-specific knock-outs.

**Other Students:**

**Summer High School Students:**

**Worked in my lab all summer as student workers as well as having their own mini-projects.**

- Melissa Fortin (Leominster High School, Leominster, MA) 1998-2002
- Emily Watkins (Taylor Alderdice High School, Pittsburgh, PA) 2004
- Harina Vin (Franklin Regional High School, Murraysville, PA) 2006
- Andrew Barchowsky (Mt. Lebanon High School), Mt. Lebanon, PA 2008-2011
- Latia Tucker (Creative and Performing Arts HS, Pittsburgh, PA, 2012-13) **CBI-CAPA Internship**  
Phipps Art Show Botanicals (Secret Garden) March 9-April 23, 2013, and Sept-Oct 2013:
- Ben Kraemer (Creative and Performing Arts HS, Pittsburgh, PA, 2012) **CBI-CAPA Internship**
- Hanna Wells (Creative and Performing Arts HS Pittsburgh, PA) Jan 2014-present  
Phipps Art Show on SEM images of Insects used for integrated pest management (June 12-October 1, 2014). Assisted by Matt Quenaudon, integrated pest management director at the Phipps Conservatory, Pittsburgh, PA). \*Returning intern for 2016.
- Everett Ziegenfuss, (North Allegheny High School, Wexford, PA). Summer 2015, 2016

**Sci Tech Executive Experience High school interns:**

**Students worked with my lab as part of the executive experience, to learn about specific aspects of science, physics and computing. One whole academic year was spent in the lab, 2 times per week.**

- De'Andre Johnson 2012-2013

- Arthur Shelton 2013-14
- Love Wanyoike 2013-14
- Alexis Corcoran (summer 2106- 2017)

## RESEARCH

### Other Support ACTIVE

<b>P30 DK072506</b> (PI: Frizzell)	07/01/15-6/30/20	0.60 Calendar
NIH	\$14,731	

#### **Basic and Clinical Studies of Cystic Fibrosis**

The central aim of this core is to provide optical imaging services for the pulmonary airways and the lung.

<b>ERC-0812348</b> (PI: Borovetz)	09/01/10-8/31/16	0.60 Calendar
NSF	\$32,012	

#### **Engineering Research Center**

Provide imaging support to ERC faculty and labs.

<b>R8883-CR07</b> (PI: Frizzell)	07/1/15-6/30/20	0.60 Calendar
CFF	\$15,130	

#### **Research Development Program in CF – Imaging Core**

The overall goal of this project is to elucidate the mechanisms underlying Cystic Fibrosis and to discover methods for reversing the defects in this disease.

<b>P01 KD0969901</b> (PI: Perlmutter)	09/24/12-8/31/17	1.20 Calendar
NIH	\$71,370	

#### **Core A: Cell and Tissue Imaging core**

In this application we will investigate the hypothesis that gain of toxic function mechanism can contribute to the pathogenesis of lung disease in ATD.

<b>1UH3TR000496</b> (PI: Griffith)	07/24/12-06/30/17	1.20 Calendar
NIH	\$65,121	

#### **All Human Microphysical Model of Metastasis Therapy**

The use of human liver cell perfused bioreactors to evaluate off target effects of chemotherapeutics to treat breast cancer metastases.

<b>1R01HD075665</b> (PI: Sadovsky)	09/01/12-05/31/17	0.60 Calendar
NIH	\$7,349	

#### **Primary Human trophoblasts and the Transfer of Viral Resistance**

The overarching goal of this application is to decipher novel mechanisms utilized by human placental trophoblasts to resist viral infections and to communicate antiviral signals locally and systemically.

<b>R01 CA172136</b> (PI: Zhang)	04/01/13-03/31/18	0.36 Calendar
NIH	\$4,597	

#### **Mechanism and cell target of NSAID-mediated tumor prevention**

We have been investigating the mechanisms of NSAID-mediated chemoprevention with the long-term objective of developing improved strategies for reducing cancer risk.

**P01 AG043376** (PI: Robbins) 07/01/13-06/30/18 0.60 calendar  
NIH \$7,379

**Cell Autonomous and Non-Autonomous Mechanism of Aging (Core C)**

We will investigate the role that unresolved DNA damage plays in age-related pathologies

**1R01 ES023696:** (PI: Barchowsky) 12/01/13-11/30/18 0.60 Calendar  
NIH \$12,228

**Mechanisms of arsenic-induced muscle morbidity and reduced regenerative capacity.**

Advancing the mechanistic understanding of arsenic effects on muscle maintenance, stem cells, and healing capacity in the etiology of arsenic-induced muscle weakness and fatigue will aid in the design of strategies for improving outcomes in patients in arsenic endemic areas and increasing basic knowledge of mechanisms through which environmental exposures impair stem cell function.

**P01 HL114453.** (P.I. Mallampalli) 01/01/14-12/31/18 0.60 calendar  
NIH \$14,600

**Cardiolipin as a Novel Mediator of Acute Lung Injury**

This PPG application is based on our seminal discovery that a critical mitochondrial-specific lipid, cardiolipin, profoundly produces ARDS-like features when released into the extracellular environment.

**R01 DK097241.** (P.I. Lowe) 04/15/14-3/31/17 0.0 calendar  
NIH \$5,000

**Proteotoxicity in the Pathophysiology of Chronic Pancreatitis**

Evaluating the role of carboxyl ester lipases and associated mutants in progression of chronic pancreatitis.

**GM0441100** (PI Billiar) 04/01/14-03/31/19 0.24 calendar  
NIH \$10,828

**Nitric Oxide and hepatic Function in Sepsis and Trauma**

Evaluate the role NO plays in favorable/unfavorable outcomes in sepsis and trauma in various organs.

**1R01DK10437:** (PI: Bates) 07/01/15-06/30/20 0.48 Calendar  
NIH \$6,080

**Critical Roles for Fibroblast Growth Factor Receptors in Bladder**

Evaluate how FGFR signaling is involved in development

**VMI Pilot** : 07/01/15-06/30/17 0.00 Calendar  
VMI Institute \$25,000

**The role of plasmonic thrombospondin-1 signaling in the regulation of red blood cell homeostasis**

**U19 AI068021-11** (PI: Greenberger) 09/01/15-08/30/20 0.60 Calendar  
NIH- \$7,355



**Mechanima-Directed Sequential Delivery of Radiation Mitigators, Imaging Radiation Pathology Core**

**1R01 ES025529-01A1:**(PI: Ambrosio/Barchowsky) 02/01/16-01/31/20 1.20 Calendar  
NIH \$19,890

**Dysfunctional Muscle Remodeling and Regeneration in Environmental Disease**

Affect of Arsenic on the ability of muscle stem cells to potentiate muscle regeneration

**R01 HL127711** (PI: Kwiatkowski) 04/01/16-03/31/21 0.6 Calendar  
NIH \$7,539

**Alpha-catenin function in cardiomyocyte adhesion and cytoskeletal organization**

**PENDING**

**Not Assigned:** (PI: Goetzman) 09/1/16-08/31/21 0.6 Calendar  
NIH \$22,844

**Modulation of Peroxisome Function By Sirtuins**

**R01 Not Assigned:** (PI: Liu) 09/1/16-08/31/21 0.24 Calendar  
NIH \$8,767

**Nanoscale Imaging of Cell Nucleus to predict Cancer Progression in IB colitis**

**Not Assigned:** (PI: Roy) 10/1/16-9/30/18 0.6 Calendar  
NIH \$15,867

**Novel regulators of diabetic retinopathy**

**S10 Not Assigned** 02/01/17-01/31/18 0.0 Calendar  
NIH \$315,472

**Leica EM ICE High Pressure Freezer and AFS2 Freeze Substitution System.**

**Not Assigned:** (PI: Swiateck-Urban) 04/01/17-03/31/22 0.6 Calendar  
NIH \$11,010

**Novel Pathways in TGF BETA Signaling**

Elucidate the role of TGF-beta in the trafficking pathways of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) in order to identify a therapeutic target for the fatal disease, cystic fibrosis.

**Not Assigned:** (PI: Friedlander) 04/01/17-03/31/22 0.12 Calendar  
NIH \$5,000

**Melatonin Biosynthesis in Neuronal Mitochondria**

**R01 (PI: Barak)** 04/01/17 - 03/31/22 0.24 Calendar  
NIH \$9,000

**The Placental Phenome Initiative**

## **Editorial Board:**

**2010-present:** Cell Transplantation: The Regenerative Medicine Journal. Hepatocyte section.

## **Current Research Interests:**

Signal transduction relating to mitogen-stimulated motility events in parenchymal (hepatocytes) and non-parenchymal (epithelial and endothelial) cells of the liver during liver regeneration. Angiogenesis of the liver following partial hepatectomy. Endothelial cell proliferation and motility. Effect of extracellular matrix on the above phenomena. Ultrastructural evaluation of liver during various physiological states. Artificial Liver bioreactors. Repopulation of endothelium following ischemia/reperfusion injury of liver, intestine and kidney. Stem cell involvement in I/R injury recovery. Novel organellar protein trafficking in hepatocytes. Role of HIF and regulatory enzymes in liver remodeling, angiogenesis. Mechanisms of aging in kidney in liver and vasculature in general.

## **Invited Speaking Engagements**

1. **DB Stolz**, Gregory Bannish & Bruce S. Jacobson. 1991. Transmembrane Protein Polarity of Subconfluent Bovine Aortic Endothelial Cells (BAECs) In Vitro. Fifth World Congress For Microcirculation. Louisville, KY. August 31-September 5, 1991.
2. **DB Stolz**, & George K. Michalopoulos. 1994. Differential effects of HGF and EGF on the mitogenesis, motility, morphology and cytoskeletal signal transduction in primary rat hepatocytes. FASEB J. 8(5)pt.2: A1020, #5908.
3. **DB Stolz** and George Michalopoulos, 1995. Rho A and focal adhesion kinase are upregulated during stimulation of hepatocyte and liver epithelial cell motility. FASEB J. 9(3)pt.1:A1, #2.
4. **DB Stolz**. 1998 Endothelial extracellular matrix during liver regeneration. Blood Vessel Club. NAVBO. San Francisco, CA. April 18, 1998.
5. **DB Stolz**, M.A. Ross, H.M. Salem, W.M. Mars, and G.K. Michalopoulos. 1998. Morphological and Extracellular Matrix changes at the sinusoidal surface during endothelial cell proliferation following partial hepatectomy. FASEB Summer Research Conference on Liver Pathobiology, Snowmass, CO July11-16, 1998.
6. **DB Stolz** Liver Regeneration as a Model for Physiologic Angiogenesis. Cell Biology and Physiology, University of Pittsburgh Med. School. January 19, 2000
7. **DB Stolz** Liver Regeneration as a Model for Physiologic Angiogenesis. Molecular and Cellular Biology Program, University of Massachusetts, Amherst, MA. April 25, 2000
8. **DB Stolz** Liver Regeneration as a Model for Physiologic Angiogenesis. Dept. of Chemical Engineering, MIT, Cambridge, MA October 24, 2000.
9. **DB Stolz**. Angiogenesis designs for Liver Regeneration. August 2001, Gordon Conference, Holderness, NH. Biomaterials. Biocompatibility and Tissue Engineering.
10. **DB Stolz** Revascularization of the regenerating liver. April 21, 2002. In Vascularization of Parenchymal Organs, ASIP, FASEB, New Orleans.
11. **DB Stolz** Revascularization of the regenerating liver, MIRM Wound Healing Seminar, Fall session 2003.
12. **DB Stolz** Mechanisms of angiogenesis in the liver. Pathology Liver Seminar Series, University of Pittsburgh. 2006
13. **DB Stolz** Mechanisms of angiogenesis in the liver. March 24, 2006. Dept. Biological Sciences, Duquesne University.

14. Liu S, **Stolz DB**, Sappington PL, Macias CA, Killeen ME, Tenhunen JJ, Delude RL, Fink MP. HMGB1 is Secreted by Immunostimulated Enterocytes and Contributes to Cytomix-induced Hyperpermeability of Caco-2 Monolayers. Innate Danger Signals and HMGB1. Milan, Italy. Feb. 6-12, 2006.
15. **Stolz, DB**. Novel Imaging Technologies. MIRM Retreat, Nemaocolin Resort. March 5, 2007.
16. **Stolz, DB** Limits of Electron Microscopy. MIRM Retreat, Nemaocolin Resort. March 9, 2009.
17. **Stolz, DB**. Working your way through graduate school and your post-doc: making the most of the experience. Presentation to the Summer Undergraduate programs at Duquesne University. July 20 2009.
18. **Stolz, DB**, MA Ross, K Tomiyama, H Toyokawa, L Li, N Murase. Events contributing to rat liver vascularization following partial hepatectomy. Experimental Biology 4 18, 2009.
19. **Stolz, DB**, J Franks. Invited lecturers for “Words and Images”, a class taught at U. Pitt-Titusville by Dr. Cindy Andes. “Science and Art” September 29, 2009.
20. **Stolz, DB**, J Franks. Invited lecturers for “Words and Images”, a class taught at U. Pitt-Titusville by Dr. Cindy Andes. “Science and Art” October 21, 2010
21. **Stolz, DB**, J Franks. Invited lecturers of Microscopy-related subjects for Biology Club at U. Pitt-Titusville by Dr. Nancy Tress. October 21, 2010.
22. **Stolz, DB**, Progeroid mouse model to study age-related kidney dysfunction. Renal Seminar Series, University of Pittsburgh. May 11, 2011.
23. **Stolz, DB**. Working your way through graduate school and your post-doc: making the most of the experience. Presentation to the Summer Undergraduate programs at Duquesne University. July 15, 2011.
24. **Stolz, DB**. Progeroid Mouse Model to Study Age-related Kidney Dysfunction. Cell Biology and Physiology Retreat September 9, 2011.
25. **Stolz, DB** Interdisciplinary Biomedical Graduate program Admissions seminar. University of Pittsburgh. Jan 20, Feb 3, 17, March 2, 16, 2011.
26. **Stolz, DB** Career Choices with a Biochemistry degree. University of Massachusetts, Amherst. Nov 1, 2013.
27. **Stolz, DB**. Chronic Kidney Disease in the ERCC-1 deficient mouse model of accelerated aging. Cell Biology Department Retreat, University of Pittsburgh. September 19, 2014
28. **Stolz, DB** Imaging Alpha-1 antitrypsin Disease. Albert Einstein College of Medicine. Bronx, NY. Nov. 5, 2014.
29. **Stolz, DB** Career Choices with a Biochemistry degree. University of Massachusetts, Amherst. Nov 14, 2014.
30. **Stolz, DB** Career Choices with a Biochemistry degree. University of Massachusetts, Amherst. Nov 12, 2015.
31. **Stolz, DB**. Keynote Speaker, Duquesne University Biological Sciences Retreat. August 20, 2016. “Not all who wander are lost: My story of navigating the world of Biomedical Science as a Cell Biologist”

## **COLLABORATORS (past and present)**

### **Department Wide:**

Joseph Pilewski, M.D.

Simon Watkins, Ph.D.

Ray Frizzell, Ph.D.

Kathi Peters, Ph.D.

Peter Drain, Ph.D.

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Agnieszka Swiatecka-Urban, M.D.

**University Wide:**

**Pathology:**

George K. Michalopoulos, M.D., Ph.D.

Stephen Strom, Ph.D.

Wendy M. Mars, Ph.D.

Alan Wells, M.D., D.M.Sc.

Cary Wu, Ph.D.

Jianhua Luo, Ph.D.

Youhua Liu, Ph.D.

Paul Monga, M.D.

**Medicine:**

David Whitcomb, M.D., Ph.D.

Anthony Kanai, Ph.D.

Neil Resnick, M.D.

Steven Shapiro, M.D.

A McGarry Houghton, M.D. (Now at Fox Chase)

Janet S. Lee, M.D.

Rama Mallampalli, M.D.

**Surgery:**

Timothy Billiar, M.D.

Yoram Yodovotz, Ph.D.

Noriko Murase, M.D. (Left University 2012)

David Geller, M.D.

Prabir Ray, Ph.D.

Anurhada Ray, Ph.D.

Anthony J. Demetris, M.D. (Also Pathology)

Allan Tsung, M.D.

**Pharmacology:**

Bruce Freeman, Ph.D.

Guillermo Romero, Ph.D.

Adam Straub, Ph.D.

**Pharmaceutical Science:**

Song Li, Ph.D.

**Grad School of Public Health:**

David Finegold, M.D.

Phalguni Gupta, Ph.D.

**Environmental and Occupational Health:**

Bruce R. Pitt, Ph.D.

Aaron Barchowsky, Ph.D.

Valerian Kagan, Ph.D.

Claudette St. Croix, Ph.D.

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**Physical Medicine and Rehabilitation**

Fabrisia Ambrosio, Ph.D., M.P.T.

**University of Pittsburgh School of Dental Medicine**

Charles Sfeir, DDS, Ph.D.

Elias Beniash, Ph.D.

**Magee-Womens:**

Pamela Moalli, M.D.

Carl Huber, Ph.D.

Sharon Hilliar, Ph.D.

Yacov Barak, Ph.D.

Richard Challiet, M.D.

Yoel Sadovsky, M.D.

**Children's Hospital of Pittsburgh**

David Perlmutter, M.D.

David Hackam, M.D., Ph.D.

Jacqueline Ho, M.D.

Edward Prochownik, M.D., Ph.D.

Gary Silverman, M.D., Ph.D.

Ira J. Fox, M.D.

Sunder Sims-Lucas, Ph.D.

Eric Goetzman, Ph.D.

**McGowan Institute of Regenerative Medicine:**

Steve Badylak, Ph.D., M.D., D.V.M.

Joerg Gerlach, M.D., Ph.D.

William Wagner, PhD

Kacey Marra, Ph.D. (Bioengineering)

Eric Lagasse, Ph.D.

Paulo Fontes, M.D.

**Molecular Genetics and Microbiology:**

Robert Montelaro, Ph.D.

Paul Robbins, Ph.D. (Adjunct, now at Scripps, Jupiter, FL)

Laura Niedernhofer, MD, PhD (Adjunct, now at Scripps, Jupiter, FL)

Gary Thomas, Ph.D.

Jennifer Bomberger, Ph.D.

Carolyn Coyne, Ph.D.

**Eye and Ear Institute**

B.J. Ferguson, M.D.

Jim Funderburgh, Ph.D.

Michael Steketee, Ph.D.

**UPCI**

Shiyuan Cheng, Ph.D. (Currently at Northwestern)

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Laura Niedernhofer, M.D., Ph.D. (Adjunct, now at Scripps, Jupiter, FL)  
Bennett Van Houten, Ph.D.  
Hannah Rabinowich, Ph.D.  
Yang Liu, Ph.D.  
Stephen Thorne, Ph.D.

**External (national and international):**

Robert H. Costa, Ph.D.  
University of Illinois at Chicago, College of Medicine, Chicago, IL  
(Deceased, September 1, 2006)

Linda G. Griffith, Ph.D.  
Massachusetts Institute of Technology, Cambridge, MA

Douglas Lauffenburger, Ph.D.  
Massachusetts Institute of Technology, Cambridge, MA

Wei Duan, Ph.D.  
Deakin University, Geelong, Waurm Ponds, Victoria Australia

Lester Lau, Ph.D.  
University of Illinois at Chicago, College of Medicine, Chicago IL

Terry Unterman, Ph.D.  
University of Illinois at Chicago, College of Medicine, Chicago. IL

James Crawford, M.D., Ph.D.  
University of Florida Medical Center, Gainesville, FL, now at Hofstra University, NY.

Peter Castric, Ph.D.  
Duquesne University, Pittsburgh, PA

Lina Lu, Ph.D.  
Cleveland Clinic, Cleveland, OH

Katsuhiko Enomoto, M.D., Ph.D.  
Akita University Medical School, Akita, Japan

Leonidas Koniaris, M.D.  
Thomas Jefferson University, Philadelphia, PA.

David Dichek, M.D.  
University of Washington, Seattle, WA

Junichi Ikenouchi, M.D., Ph.D.  
Graduate School of Engineering, Kyoto University, Japan.

Danith Ly, Ph.D.  
Carnegie Mellon University, Pittsburgh, PA

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Philip LeDuc, Ph.D.  
Carnegie Mellon University, Pittsburgh, PA

Burak Ozdogandlar, Ph.D.,  
Carnegie Mellon University, Pittsburgh, PA

Nilam S. Mangalmurti, M.D.  
University of Pennsylvania, Philadelphia, PA

Hugo Rosen, M.D.  
University of Colorado, CO

## SERVICE

### University of Pittsburgh/UPMC:

#### **1997-present: Associate Director, Center for Biologic Imaging (CBI)**

Directly manage the electron microscopy arm of the facility (transmission and scanning electron microscopy). Interacting with faculty, student, fellow and outside staff users with design and interpretation of imaging data, use of equipment, as well as assist users with manuscript and grant writing relative to imaging their imaging needs. Principal control for overseeing staff within the facility and the day-to-day running of the state of the art imaging facility ([www.cbi.pitt.edu](http://www.cbi.pitt.edu)). Arrange and coordinate financial support from user investigators relevant to my expertise as well as taking a lead role in writing shared instrumentation grants to upgrade and expand microscope facilities to user investigators. Primary control for interface between CBI and the outside worlds, for example in the supply of images for Academic Affairs publications including the annual report and various University of Pittsburgh publications (PittMed, Pitt Magazine, Pitt Chronicle and Pitt Times) as well as various outreach programs. Running P.R. and promotion for the facility, including setting up scientific art shows displaying images obtained by CBI staff and users. Provide tours to potential MD, PhD and MD/PhD students and faculty and visiting scientists.

#### **2004-Present. Co-director (with Simon Watkins) of Multiparametric Microscopic Imaging MSCBMP 2860**

#### **2009-present Co-director with Claudette St. Croix.**

Summer survey course on all modes of optical and electron microscopy.

#### **2006-2011: Director, Summer Undergraduate Research Program (SURP), Cell Biology and Physiology**

Coordinate the summer research program for the department of Cell Biology and Physiology. This highly competitive, 10 week summer research program is a mechanism to attract the best undergraduate researchers to matriculate in the Interdisciplinary Graduate Program. Involved in screening applications, recruiting mentors, overseeing seminar series and final presentations.

#### **2009-2012: Interdisciplinary Biomedical Graduate Committee Admissions Committee**

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- **2009-2012:** Member. Reviewing graduate school applications for IBGP.
- **2010-2011:** Member, Assistant Chair
- **2011-2012:** Member, Chair.

**2010-2012: Recruiting for Biomedical Graduate Committee:** 5 College Career Fair, University of Massachusetts, Amherst, MA.

**June 2010-April 2012: Assistant Director, Cell Biology and Molecular Physiology Graduate Program.** Assist director with running of graduate program. Attend meetings in his absence.

**April 2012-present, Director, Cell Biology and Molecular Physiology Graduate Program.** Oversee graduate student progress in the CBMP program.

**2010-2015: Tour guide for Interdisciplinary Biomedical Graduate Program Admissions Committee.** Redesigned (with MD/PhD student David Wheeler in 2009) and lead the Saturday tours for IBGP recruits. (5 Saturdays Jan-March, 9:00 am-5:00 pm). Coordinate tour guides from each program to attend the bus tour, arrange security access and graduate student tour guides for satellite facilities including the Magee-Womens Research Institute, Zebrafish facility, CBI, Hillman Cancer Center, Children's Hospital Rangos Research Center, Bridgeside Point II.

**2013 (April and May): Misconduct Inquiry Committee, Chair.**

### **Science as Art**

**2006-present: Curator of Science Symposia's Science as Art Shows.**

Curating art shows in coordination with the Academic Affairs Office (Dr. Maggie McDonald) during the two-day Science Symposium every October. (visit some of the shows at [www.cbi.pitt.edu/gallery/index.html](http://www.cbi.pitt.edu/gallery/index.html))

- **Science2006: Images from the Center for Biologic Imaging Archives.** A series of 18 images selected by the staff of the CBI for display.
- **Science2007: Periodic Table of Amino Acids.** Polarized light images of re-crystallized amino acids as well as other well-known chemicals (cholesterol, acetaminophen, citrulline, imidazole, etc).
- **Science2008: Periodic Table of Electron Microscopy.** "What would Mendeleev do?" Each of the 118 element panels is re-represented with an image captured using one of a variety of electron microscopy modalities.  
<http://www.cbi.pitt.edu/gallery/Elements/index.html>
- **Science2009: Photomicroscopy Mosaics.** A series of well-known pieces of art that were recreated as 14 photo-mosaics using images collected by CBI over the past 10 years. Pieces included: DaVinci's Mona Lisa, Seurat's Sunday Afternoon on the Island of La Grande Jatte, Grant Wood's American Gothic, and O'Keefe's Ram's Head as well as the University's Cathedral of Learning.  
<http://www.cbi.pitt.edu/gallery/Mosaic/index.html>



- **Science2010: From Benchtop to Bedtop.** A display of 9 handmade pillows from various artists with a scientific bent. University wide (and beyond) participation. <http://www.cbi.pitt.edu/gallery/Pillows/index.html>
- **Science2011: Get your Rotors Runnin’.** A re-commissioning of de-commissioned centrifuge rotors as heavy metal art. A total of 21 rotors were decorated by various members of the University of Pittsburgh community.
- **Science2012: Cellular Terpsichore** Movies made at CBI put to music (Overseen by Jonathan Franks, M.S.).
- **Science2013: What does personalized medicine mean to you?** Multi-media show.
- **Science2014: Sustain it!** Taking the mantra “reuse, reduce, recycle, repurpose” to make art. Partnered with the Pittsburgh Center for Creative Reuse.
- **Science2015: Images of Fighting Cancer** (Ben Van Houten, Jonathan Franks with UPCI). Reshowing of the University of Pittsburgh Cancer Institute “Fighting Cancer” Image Competition.
- **Science2016: “Game Changers”** Introduce the audience to Nobel Prize winning ideas that impacted modern microscopy.

#### **Moleculart: McGowan Institute for Regenerative Medicine**

Curated art shows that accompany **the McGowan Institute’s** Distinguished Lectureship’s receptions.

- **2006: Images from the Center for Biologic Imaging Archive.** Accompanied by a matching competition for participants. Winner picked one image panel to bring home.
- **2009: Periodic Table of Electron Microscopy** (see Science2008, above). Accompanied by a competition inspired by Sesame Street’s “one of these things is not like the other”. Participants needed to choose which of each list of 4 images was not like the other three and indicate why. Winner picked one image panel to bring home.

#### **Images of Fighting Cancer** (with Ben van Houten and Jonathan Franks)

University of Pittsburgh Cancer Institute (UPCI) competition and includes a variety of works capturing intercellular battlefields as captivating visual pieces. Also the theme for Science 2015. The works will be on permanent display at UPCI’s Hillman Cancer Institute starting October 2015.

#### **Art OUTREACH**

##### **HeLa Reflected Art Show**

**October 1, 2011:** Curated HeLa Cell-centric image art show for the 60<sup>th</sup> Anniversary of HeLa, Henrietta Lacks Memorial Lecture Series, Johns Hopkins Medical School, Johns Hopkins Institute for Clinical and Translational Research.

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## **Phipps Conservatory**

1. Photomicrographs to accompany the Spring Flower Show “The Secret Garden”

**March 9-April 23, 2013, and Sept-Oct 2013:** Curated photomicrographs of CBI and the CAPA High School interns Latia Tucker (as rising senior) and Ben Kraemer (as rising Junior) in the Phipps Lobby.

2. Photomicrographs of insects to highlight the Phipps’ Integrated Pest Management program. High School Intern Hanna Wells (freshman, CAPA) featured artist. **June 10- August, 2014.**

## **Other Art shows/competitions:**

ASCB Dulles Airport Arts show, Life: Magnified, June – November 2014. Hepatocyte Flower image in show.

ASCB Philadelphia Airport Arts Show, Life: Magnified. August-December 2014. Hepatocyte image and Moth antenna.

Olympus BioScapes honorable mention photomicrograph	2006
Nikon Small World 2 <sup>nd</sup> and 19 <sup>th</sup> place winner photomicrographs	2011
Nikon Small World Honorable Mention photomicrograph	2012
Nikon Small World Winner, Image of Distinction	2015
Outreach: The Art of Systems Biology and Nanoscience, Univeristy of New Mexico	2016

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## **1995-2000 Young Women in Science Day, UPMC**

Co-Developer (with Wendy Mars)/Instructor of the protein concepts module. Instructed 100 seventh grade girls in the basic concepts of Surgery/Animal Models, Microbiology and Protein Biochemistry used in contemporary biomedical science. Designed protein separation experiment using gel exclusion chromatography and did various enzymatic assays on separated fractions. The entire experiment was run and evaluated in one hour. The day was designed to encourage girls from inner city schools to pursue careers in science fields. Designed and set up all hands-on labs. Hand-outs and lectures,

**April 1995** 100 students (33 students x 3 x 1 hr lecture/lab)

**April 1996** 100 students (33 students x 3 x 1 hr lecture/lab)

**April 1997** 100 students (33 students x 3 x 1 hr lecture/lab)

**April 1998** 100 students (33 students x 3 x 1 hr lecture/lab)

**April 1999** 100 students (33 students x 3 x 1 hr lecture/lab)

**April 2000** 100 students (33 students x 3 x 1 hr lecture/lab)

## **Grant Reviewer for Competitive Medical Research Foundation (CMRF) UPMC**

**2006- present.** University of Pittsburgh CMRF reviewer

## **Grant Reviewer for Clinical and Translational Science Institute (CTSI)**

**WCRC Program** 2012-present

**VMI Program** 2012-present

## **EXTERNAL ACADEMIC SERVICE:**

### **Grant Reviews:**

**2001** Served as a Scientific Reviewer (grants) for Israel Science Foundation (mail review).

**2002** Ad Hoc Reviewer for NIH Study Section, General Medicine A Subcommittee 2 (mail review).

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**2008** (November) Ad hoc P30 Special Emphasis Review Panel (Imaging cores reviewer for ZDK1 GRB-8 M2 1; 2 core grants) NIDDK

**2009** (April 7) Ad hoc P01 reviewer (Imaging cores reviewer for ZDK1 GRB-8 M2 1; 1 grant) NIDDK

**2009** (April 13-14) Ad hoc reviewer for Silvio Conti Digestive Diseases Centers Special Emphasis Panel (5 imaging core grants) NIDDK.

**2009** (October 27-29) NIEHS Ad Hoc Reviewer Superfund Research Training Program. (ZES1-LWJ-M (01) Phone review of 1 grant.

**2010** (March 25-26) Ad hoc reviewer for Silvio Conti Digestive Diseases Centers (6 imaging and core grants) NIDDK. ZDK1 GRB-8-M1

**2011** NIDDK GRB-8 (J1) December 2 –Digestive Diseases Core Centers Meeting (4 imaging core grants).

**2014** (April 3-4) Ad hoc reviewer for Silvio Conti Digestive Diseases Centers (6 imaging and core grants) NIDDK ZDK1-GRB-8-M2

**2014** (July) Ad hoc reviewer for S10 Shared Instrumentation grants, Electron Microscopy. S10 ZRG1 CB-D (30). 7 EM grants to review.

**2015** (March 26-27) Ad hoc reviewer. Silvio O. Conte Digestive Diseases Research Core Centers. 7 imaging core grants. NIDDK ZDK1-GRB-8-M2

**2015** (July 16). ZDK1 GRB-7 O1 (review of NIH NIDDK R13/U13 grants) 1 meeting grant.

**2015** (November 23) ZDK1 GRB-8 J1 review of NIH NIDDK P01 special emphasis grants) 1 meeting grant, phone meeting.

**2016** (March 3) ZDK1 GRB-8 M21 review of NIH NIDDK P01 grants 1 meeting grant, phone meeting.

### **NON-ACADEMIC SERVICE**

**1998-present:** Founding board member with Wendy Mars, Ladies Liver Auxiliary. International research/social group with interests in liver biology (currently over 200 members).

**2007-present,** Rachel Carson Trails Conservancy Board member and Public Relations committee member. Volunteer Coordinator. Hike leader. Trail maintainer.

**January 2016- 2019, (3 year term).** Pittsburgh Center for Creative Reuse. Board member. Member of Grants and Development subcommittee.

**Serve at Christmas Day.** Assisted at Christmas day at Pitt 1-4 pm, Dec 25, 2015.