

## CURRICULUM VITAE

Mark Douglas Duncan, M.D.

March, 2010



### Current Appointments:

Associate Professor of Surgery and Oncology, Johns Hopkins University School of Medicine.  
Active Staff, Johns Hopkins Bayview Medical Center and Johns Hopkins Hospital.  
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

### Personal Data:

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<http://www.hopkinsbayview.org/surgery/bios/duncan.html>

*Date of Birth* September 7, 1961  
*Place of Birth* Sydney, Australia  
*Citizenship* United States of America

*Family* Married to Kimberly L.K. Duncan, Ph.D.  
Alexander Douglas - 1991  
Ian Henry - 1998  
George Edward – 1999

### Education:

1983 B.A. Northwestern University, Evanston, IL, Biochemistry/Molecular Biology  
and Russian Literary and Historic Studies.  
1987 M.D. Mayo Medical School, Mayo Clinic, Rochester, MN.

### **Postgraduate Training:**

- 1987-1989 Surgery Residency, Georgetown University Medical Center, Washington, DC.
- 1989-1991 Surgical Research Fellowship, VA Medical Center, Washington, DC.
- 1991-1994 Surgery Residency, Georgetown University Medical Center, Washington, DC.

### **Professional Experience and Appointments:**

- 1994-1996 Staff Surgeon, Veterans Affairs Medical Center, Washington, DC.
- 1995-1996 Instructor in Surgery, Georgetown University Medical Center, Washington, DC.
- 1996-2001 Assistant Professor of Surgery, Johns Hopkins University School of Medicine.
- 1997-2003 Guest Researcher, Laboratory of Molecular Genetics, NIA, NIH.
- 2000-2001 Assistant Professor of Oncology, Johns Hopkins University School of Medicine.

**1998- Chief of Surgical Oncology, Johns Hopkins Bayview Medical Center.**

2001 - Associate Professor of Surgery, Johns Hopkins University School of Medicine.

2001 - Associate Professor of Oncology, Johns Hopkins University School of Medicine.

**2004-2005 Interim Chairman, "Surgeon-in Chief," Department of Surgery, Johns Hopkins Bayview Medical Center. (1 ½ years)**

2007 - Division Chief, Surgical Oncology, Johns Hopkins Bayview Medical Center.

### **PUBLICATIONS:**

#### ***Peer-reviewed scientific articles***

1. Dziki AJ, **Duncan MD**, Harmon JW, Saini N, Malthaner RA, Fernicola MT, Hakki FW, Trad KS, Ugarte R. Advantages of handsewn over stapled anastomoses. Dis Col Rect 34:442-8, 1991.
2. Benya RV, **Duncan MD**, Mishra L, Bass BL, Voyles NR, Korman LY. Extracellular matrix composition influences insulin-like growth factor I receptor expression in a rat IEC-18 cells. Gastroenterology 104:1705-11, 1993.
3. **Duncan MD**, Korman LY, Bass BL. Epidermal growth factor primes intestinal epithelial cells for the proliferative effect of insulin-like growth factor I. Dig Dis Sci 39:2197-201, 1994.
4. Bamberger PK, Batzri S, Molloy M, **Duncan M**, Harmon JW. Reversible bile acid-induced hypercalcemia and respiratory impairment in gastric epithelial cells. Surg Forum 46:129-31, 1995.
5. Tchorzewski MT, Qureshi FG, **Duncan MD**, Batzri S, Harmon JW. IGF-I and EGF stimulate

DNA synthesis in three-dimensional esophageal explants via tyrosine kinase-dependent pathways. Surg Forum 46:122-4, 1995.

6. **Duncan MD**, Harmon JW, Duncan KLK. Actin disruption inhibits bombesin stimulation of focal adhesion kinase (pp125<sup>FAK</sup>) in prostate carcinoma. J Surg Res 63:359-63, 1996.
7. Duncan KLK, **Duncan MD**, Alley MC, Sausville EA. Cucurbitacin E-induced disruption of the actin and vimentin cytoskeleton in prostate carcinoma cells. Biochem Pharmacol 52: 1553-60, 1996.
8. **Duncan MD**, Duncan KLK. Cucurbitacin E targets proliferating endothelia. J Surg Res 69:55-60, 1997.
9. Qureshi FG, Tchorzewski MT, **Duncan MD**, Harmon JW. EGF and IGF-I synergistically stimulate human esophageal epithelia. J Surg Res 69:354-8, 1997.
10. Tchorzewski MT, Qureshi FG, **Duncan MD**, Duncan KLK, Saini N, Harmon JW. Role of insulin-like growth factor-I in esophageal mucosal healing processes. J Lab Clin Med 132:134-41, 1998.
11. Tchorzewski MT, **Duncan MD**, Nass P, Qureshi FG, Gearhart PJ, Winchurch R, Harmon JW. Characterization of an aFGF gene expression vector with therapeutic potential. J Surg Res 77:99-103, 1998.
12. **Duncan MD**, Donovan DM, Phung QH, Tihan T, Harmon JW, Gearhart PJ, Duncan KLK. Tumorigenesis at the squamocolumnar junction in an E1A/E1B transgenic model of esophagogastric adenocarcinoma. Surg Forum 49:141-2, 1998.
13. Younes ZH, **Duncan MD**, Harmon JW. Role of growth factors in esophageal mucosal healing: a work in progress. J Gastroenterol Hepatol 13:S156-60, 1998.
14. Magnuson TM, Bender JS, **Duncan MD**, Ahrendt S, Harmon JW. Utility of magnetic resonance cholangiography in the evaluation of biliary obstruction. J Am Coll Surg 189:63-72, 1999.
15. Harmon JW, Tang DG, Gordon TA, Bowman HM, Choti MA, Kaufman HS, Bender JS, **Duncan MD**, Magnuson TH, Lillemoe KD, Cameron JL. Hospital volume can serve as a surrogate for surgeon volume for achieving excellent outcomes in colorectal resection. Ann Surg 230:404-11, 1999.
16. **Duncan MD**, Tihan T, Donovan DM, Phung Q, Rowley DL, Harmon JW, Gearhart PJ, Duncan KLK. Esophagogastric adenocarcinoma in an E1A/E1B transgenic model involves p53 disruption. J Gastrointest Surg 4:290-7, 2000.
17. Younes Z, **Duncan MD**, Harmon JW. Management of Barrett's esophagus. Can J Gastroenterol 14:35D-43D, 2000.
18. Kopetz ES, Magnuson TH, **Duncan MD**, Bender JS, Lillemoe KD, Gordon TA, Cameron JL, Harmon JW. Complications of neglected cholelithiasis account for significant surgical mortality in the elderly. Surg Forum 51:489-91, 2000.
19. Wan X, **Duncan MD**, Nass P, Harmon JW. Synthetic retinoid CD437 induces apoptosis of esophageal squamous HET-1A cells through the caspase-3-dependent pathway. Anticancer Res 21:2657-64, 2001.
20. Wan X, Nass P, **Duncan MD**, Harmon JW. aFGF overexpression partially protects 3T3 fibroblasts from apoptosis induced by synthetic retinoid CD4437. J Mol Med 79:143-8, 2001.
21. Byrnes CK, Nass PH, Duncan MD, Diamond S, Harmon JW. Assessment of a nuclear targeting peptide scaffold (M9) to improve plasmid DNA transfection efficiency. Surg Forum 52:538-9, 2001.
22. Byrnes CK, Khan FH, Nass PH, Hatoum C, **Duncan MD**, Harmon JW. Success and

- limitations of a naked plasmid transfection protocol for keratinocyte growth factor-1 to enhance cutaneous wound healing. Wound Repair Regeneration 9:341-6, 2001.
23. Tihan T, Harmon JW, Wan X, Younes Z, Nass P, Duncan KKK, **Duncan MD**. Evidence of androgen receptor expression in squamous and adenocarcinoma of the esophagus. Anticancer Res 21:3107-14, 2001.
24. Byrnes CK, Nass PH, Shim JK, **Duncan MD**, Lacy BE, Diamond SL, Harmon JW. Novel nuclear shuttle peptide to increase transfection efficiency in esophageal mucosal cells. J Gastrointest Surg 6:37-42, 2002.
25. Olnes MJ, Nicol T, **Duncan M**, Bohlman M, Erlich R. Interdigitating dendritic cell sarcoma: a rare malignancy responsive to ABVD chemotherapy. Leuk Lymphoma 43:817-21, 2002.
26. Byrnes CK, Nass PH, **Duncan MD**, Harmon JW. A nuclear targeting peptide-M9 improves transfection efficiency in fibroblasts. J Surg Res 108:85-90, 2002.
27. Bender JS, **Duncan MD**, Freeswick PD, Harmon JW, Magnuson TH. Increased laparoscopic experience does not lead to improved results with acute cholecystitis. Am J Surg 184:591-4, 2002.
28. Byrnes CK, Bahadursingh A, Akhter N, Parindandi NL, Natarajan V, Montgomery E, Tihan T, **Duncan MD**, Nass PH, Harmon JW. Duodenal reflux produces hyperproliferative epithelia esophagitis - a possible precursor to esophageal adenocarcinoma. J Gastrointest Surg 7:172-80, 2003.
29. Byrnes CK, Malone RW, Akhter N, Nass PH, Wetterwald A, Cecchini MG, **Duncan MD**, Harmon JW. Electroporation enhances transfection efficiency in murine cutaneous wounds. Wound Repair Regen, 12:397-403, 2004.
30. Marti GP, Lin MP, Dieb R, Qaiser R, Ferguson M, Bonde P, Wang J, **Duncan M**, Harmon JW. KGF-1 plasmid delivered with electroporation accelerates wound closure in diabetic mice. Surg Forum 55: , 2004.
31. Marti G, Ferguson M, Wang J, Byrnes C, Dieb R, Qaiser R, Bonde P, **Duncan MD**, Harmon JW. Electroporative transfection with KGF-1 DNA improves wound healing in a diabetic mouse model. Gene Ther, 11, 1780-5, 2004.
32. Makary MA, **Duncan MD**, Harmon JW, Freeswick PD, Bender JS, Bohlman M, Magnuson TH. The role of magnetic resonance cholangiography in the management of gallstone pancreatitis. Ann Surg 241:119-24, 2005.
33. Ferguson M, Byrnes C, Sun E, Marti G, Bonde P, **Duncan M**, Harmon JW. Wound healing enhancement: electroporation to address a classic problem of military medicine. World J. Surg 29:S55-9, 2005.
34. Sui G, Bonde P, Dhara S, Broor A, Wang J, Marti G, Feldmann G, **Duncan M**, Montgomery E, Maitra A, Harmon JW. Epidermal growth factor receptor and hedgehog signaling pathways are active in esophageal cancer cells from rat reflux model. J Surg Res, 134:1-9, 2006.
35. Lin MP, Marti GP, Dieb R, Wang J, Ferguson M, Qaiser R, Bonde P, **Duncan M**, Harmon JW. Delivery of plasmid DNA expression vector for keratinocyte growth factor-1 using electroporation to improve cutaneous wound healing in a septic rat model. Wound Repair Regen 14:618-24, 2006.
36. Bonde P, Gao D, Chen L, **Duncan M**, Miyashita T, Montgomery E, Harmon JW, Wei C. Selective decrease in the DNA base excision repair pathway in squamous cell cancer of the esophagus. J Thor Cardiovasc Surg 133(1):74-81, 2007.
37. Bonde P, Sui G, Dhara S, Wang J, Broor A, Kim IF, Wiley JE, Marti G, **Duncan M**, Jaffee E, Montgomery E, Maitra A, Harmon JW. Cytogenic characterization and gene expression

- profiling in the rat reflux induced esophageal tumor model. J Thor Cardiovasc Surg 133(3):763-9, 2007.
38. Miyashita T, Shah FA, Marti G, Wang J, Armstrong T, Bonde P, Gibson MK, Yoshimura K, Montgomery EA, **Duncan MD**, Jaffee EM, Harmon JW. Vaccine impedes the development of reflux-induced esophageal cancer in a surgical rat model: efficacy of the vaccine in a pre-Barrett's setting. J Gastrointest Surg 12:2-9, 2008.
39. **Duncan MD**. X-ray holds key. Surgery 144:836, 2008.
40. Nundy S, Mukjerjee A, Sexton JB, Pronovost Pj, Knight A, Rowen LC, **Duncan M**, Syin D, Makary MA. Impact of preoperative debriefing on operating room delays. Arch Surg 143(11):1068-72, 2008.
41. Miyashita T, Shah FA, Marti G, Armstrong TD, Wang J, Bonde P, Gibson MK, Yoshimura K, Montgomery EA, **Duncan M**, Jaffee EM, Harmon JW. Vaccine impedes the development of reflux induced esophageal cancer in a surgical rat model: efficacy of the vaccine in a post-Barrett's setting. Dig Dis Sci 53:2858-67, 2008.
42. Miyashita T, Armstrong TD, Shah F, Wang J, Bonde P, Gibson MK, Yoshimura K, Marti G, Montgomery EA, **Duncan M**, Jaffee EM, Harmon JW. Development of a granulocyte macrophage colony stimulating factor (GM-CSF) whole cell vaccine for esophageal cancer. Gastroenterology (in preparation).
43. Bogdan CP, Kuguruga D, Jin Z, Mori Y, Cheng Y, **Duncan M**, Stass SA, Montgomery E, Hutcheon D, and Meltzer SJ. Relationship between normal rectal methylation, smoking status, and the presence or absence of colorectal adenomas. Cancer, 2010 (accepted, in print).
44. Jin Z, Cheng Y, Kan T, Mori Y, Agarwal R, Olaru A, Selaru F, Yang J, David S, Abraham JM, Harmon J, **Duncan M**, Montgomery EA, Meltzer SJ. MicroRNAs -192 and -215 are upregulated in human gastric cancer *in vivo* and suppress ALCAM expression *in vitro*. Gastroenterology (submitted).

### ***Editorials, Reviews***

1. **Duncan MD**, Review of "Nutrition for the hospitalized patient," Torosian MH, ed, 1995 in J Parenter Enteral Nutr 20:167, 1996.
2. **Duncan MD**. Pathogenesis and management of malignant colorectal polyps. Materiały Naukowe II Międzynarodowego Sympozjum Proktologicznego (Poland) 118-26, 1997.
3. Moesinger RC, Bender J, **Duncan M**, Magnuson T, Harmon JW. Surgical management of diseases of the stomach and duodenum, Current Opinion Gastroenterol 14:458-66, 1998.
4. **Duncan MD**. The role of pelvic exenteration in primary and recurrent colorectal cancer. Materiały Naukowe III Międzynarodowego Sympozjum Proktologicznego (Poland), 44-8, 1999.
5. Crowell MD and **Duncan MD**. Selection of patients for surgical treatment of colonic dysmotility: Antroduodenal manometry to predict outcomes following total abdominal colectomy. Materiały Naukowe III Międzynarodowego Sympozjum Proktologicznego (Poland), 111-7, 1999.
6. Moesinger RC, Bender J, **Duncan M**, Magnuson T, Harmon JW. Surgical intervention and understanding of diseases of the stomach and duodenum, Current Opinion Gastroenterol 15:509-15, 1999.

7. **Duncan MD**. Endoprosthesis stents for obstructing colonic tumors. *Proktologia* 2:151, 2001.
8. Eckhauser FE, **Duncan M**. Review of "Evaluation of regional node status in gastric cancer using radio-guided sentinel node detection." *Am J Onc Rev* 2:34,41, 2003.
9. Eckhauser FE, **Duncan M**, Harmon J. Review of "Concurrent cisplatin, paclitaxel, and radiotherapy as preoperative treatment for patients with locoregional esophageal carcinoma." *Am J Onc Rev* 3:270-275, 2004.
10. **Duncan MD**. Commentary: Chemoradiation with and without surgery in patients with locally advanced squamous cell carcinoma of the esophagus. *Am J Hem Onc* 5:2-8, 2006.
11. **Duncan MD**. Review of "Modern surgical care: physiologic foundations and clinical applications, 3<sup>rd</sup> ed," Miller T ed., 2006 in *Arch Surg* 142(12):1223.
12. Bose D, **Duncan MD**. Perioperative chemotherapy for resectable gastroesophageal cancer: the results of the MAGIC trial. *Am J Hem Onc* 6:151-4, 2007.
13. Bose D, **Duncan MD**. Neoadjuvant chemoradiation for gastric cancer: another contender in the ring. *Am J Hem Onc* 6:352-4, 2007.
14. **Duncan MD**. Stage IV gastric cancer: not all the same. Commentary *Arch Surg* 144(1):2009.

### ***Book Chapters***

1. **Duncan MD**, "Oral cholecystography, endoscopic retrograde cholangio-pancreatography, other imaging techniques," in *Hepatobiliary and pancreatic surgery: imaging strategies and surgical decision making*; Evans, SRT, and Ascher, SM, eds. John Wiley & Sons, 55-70, 1998.
2. **Duncan MD**, Bender JS, "Abdominal hernias," in *Principles of ambulatory medicine*, fifth edition; Barker LR, Burton JR, and Zieve PD, eds. Williams & Wilkins, 1400-7, 1998.
3. **Duncan MD**, Magnuson TH, "Gastrointestinal bleeding of obscure origin," in *The practice of general surgery*, Bland, KI, ed. W.B. Saunders Co, 828-31, 2001.
4. **Duncan MD** and Younes Z, "Barrett's Esophagus," in *Current Surgical Therapy*; Cameron, JL, ed. Mosby, 37-40, 2001.
5. Bender JS, **Duncan MD**, "Benign conditions of the anus and rectum," in *Principles of ambulatory medicine*, sixth edition; Barker LR, Burton JR, and Zieve PD, et. al., eds. Williams & Wilkins, 1542-54, 2003.
6. **Duncan MD**, Bender JS, "Abdominal hernias," in *Principles of ambulatory medicine*, sixth edition; Barker LR, Burton JR, and Zieve PD, et. al., eds. Williams & Wilkins, 1534-41, 2003.
7. Yen TWF, Evans DB, Pedrazzoli S, Pasquali C, Sperti C, Nakakura E, **Duncan M**, Eckhauser F, "Resection for Neoplasms of the Pancreas," in *Atlas of upper gastrointestinal and Hepato-pancreato-biliary surgery*; Clavien PA, Sarr MG, and Fong Y eds. Springer, 763-98, 2007.
8. Melton-Meaux G, **Duncan MD**, "Acute appendicitis," in *Current Surgical Therapy*; Cameron, JL, ed. Mosby, 257-61, 2008.
9. Melton-Meaux G, **Duncan MD**, Magnuson TH, "Obscure occult gastrointestinal bleeding," in *The practice of general surgery*, Bland, KI, ed. W.B. Saunders Co, 1305-12, 2009.
10. Van Arendonk KJ and **Duncan MD**, "Acute Cholecystitis," in *Current Surgical Therapy*; Cameron, JL, ed. Mosby, 2010 (in print).
11. Li R, Melton-Meaux G, **Duncan MD**, Harmon JW, "Acute appendicitis," in *Current Surgical Therapy*; Cameron, JL, ed. Mosby, 2010 (in print).

## ***Books***

1. **Duncan MD**. The Johns Hopkins Patient Guide to Stomach and Esophageal Cancer. Jones and Bartlett, pub., from the Johns Hopkins Oncology Series, 2010.
2. **Duncan MD**, contributing editor. The Johns Hopkins A.B.S.I.T.E. Review Manual, Editors: Nazarian, S.M., Meguid, R.A. and Lipsett, P.A. Philadelphia: Lippincott, Williams and Wilkins, 2008. ISBN 978-0-7817-9178-6.

## ***Published Abstracts***

1. **Duncan MD**, Harmon JW, Korman LY, Bass BL. Insulin and insulin like growth factors enhance the proliferative effect of EGF on cultured human intestinal epithelial cells. Gastroenterology 98:A410, 1990.
2. Dziki AJ, Malthaner RA, Harmon JW, Saini N, **Duncan MD**, Fernicola MT, Fischer BA, Hakki FZ, Trad KS, Ugarte R. Advantages of handsewn over stapled anastomoses. Dis Colon Rectum 33:P17-18, 1990.
3. **Duncan MD**, Korman LY, Bass BL. The IGF-I receptor mediates both insulin and IGF-I proliferative response in human enterocytes. Gastroenterology 100:A638, 1991.
4. **Duncan MD**, Voyles NR, Korman LY, Bass BL. IGF-I and EGF promote intestinal epithelial growth without altering glucose transport. Gastroenterology 100:A638, 1991.
5. Benya RV, **Duncan MD**, Bass BL, Korman LY. Extracellular matrix influences IGF-I receptor binding in cultured human fetal epithelial cells. Gastroenterology 100:A630, 1991.
6. Dziki AJ, **Duncan MD**, Harmon JW, Saini N, Malthaner RA, Fernicola MT, Hakki FZ, Trad KS, Ugarte RM. Comparison of three techniques in bowel anastomoses. Dis Colon Rectum 34:P37, 1991.
7. **Duncan MD**, Korman LY, Bass BL. EGF primes human enterocytes for IGF-I proliferative effect. European Surg Res 23 (S1): 102-3, 1991.
8. Bamberger PK, **Duncan MD**, Molloy M, Batzri S, Goldberg WJ, Harmon JW. Transient, deoxycholate induced, hypercalcemia in human colon cancer cells. Gastroenterology 108:A447,1995.
9. Tchorzewski MT, Qureshi F, **Duncan MD**, Batzri S, Harmon JW. IGF-I stimulates DNA synthesis in esophageal mucosa. Gastroenterology 108:A237, 1995.
10. Qureshi FG, Tchorzewski MT, **Duncan MD**, Harmon JW. IGF-I promotes healing of experimental acid-pepsin induced erosive esophagitis. Gastroenterology 112:A263,1997.
11. Tchorzewski MT, Qureshi FG, **Duncan MD**, Harmon JW. Specific inhibition of IGF-I induced DNA synthesis in esophageal explants. Gastroenterology 112:A311, 1997.
12. Qureshi FG, Maheshwari S, Saleem R, Saleem A, Tchorzewski MT, **Duncan MD**, Harmon JW. Acidic FGF stimulates proliferation of human esophageal epithelia. Gastroenterology

112:A900, 1997.

13. Younes Z, Nass P, Tihan T, Dicker M, **Duncan MD**, Harmon JW. Endoscopic transfection of the rabbit esophageal mucosa with a pMexneo vector for the human acidic fibroblast growth factor: a preliminary study. Am J Gastro 93:1627, 1998.

14. Younes Z, **Duncan MD**, Tihan T, Harmon JW, Duncan KLK. Esophageal cancer: do sex hormones play a role? Am J Gastro 93:1627, 1998.

15. **Duncan MD**, Tihan T, Donovan DM, Phung Q, Harmon JW, Gearhart PJ, Duncan KLK. Esophagogastric adenocarcinoma in an E1A/E1B transgenic model involves p53 disruption. Gastroenterology 116:A1308, 1999.

16. Wan X, **Duncan MD**, Nass P, Harmon JW. Epidermal growth factor and fibroblast growth factor protect partially HET-1A cells from CD437-induced apoptosis. Gastroenterology 116:A526, 1999.

17. Younes Z, **Duncan MD**, Bender JS, Zayat EN, Regan F, Magnuson TH. Magnetic resonance cholangiopancreatography and angiography with conventional MRI for preoperative evaluation of pancreatic cancer. Gastroenterology 116:A1178, 1999.

18. Bahadursingh A, Khan F, Nass P, **Duncan M**, Harmon J. Transfection of esophageal tissue in vivo using the reporter gene beta-galactosidase. Gastroenterology 116:A181, 1999.

19. Younes ZH, Duncan MD, Harmon JH: Role of growth factors in oesophageal mucosal healing: A work in progress. J of Gastroenterol and Hepato 13:S156-S160, 1999.

20. Tihan T, **Duncan MD**, Harmon JW, Duncan KLK. Pathological observations and evidence for the influence of gender on esophagogastric carcinoma in a transgenic murine model. Mod Path 13:89A, 2000.

21. Diamond MS, Younes Z, Nass PH, Wu TT, Nikoomanesh P, **Duncan MD**, Crowell MD, Harmon JW. Telomerase activity in Barrett's esophagus and esophageal adenocarcinoma. Gastroenterology 118:A1030, 2000.

22. Khan FH, Nass PH, Mathis C, **Duncan MD**, Harmon JW, Crowell MD. Transfection of murine gastrointestinal tissue in vivo using a reporter gene: a work in progress. Gastroenterology 118:A520, 2000.

23. Magnuson TH, **Duncan MD**, Freeswick PD, Harmon JW, Bender JS. Utility of magnetic resonance cholangiography in the evaluation of patients with gallstone pancreatitis. Gastroenterology 118:A1062, 2000.

24. Kopetz ES, Magnuson TH, **Duncan MD**, Bender JS, Lillemoe KD, Gordon TA, Cameron JL, Harmon JW. Complications of neglected cholelithiasis account for significant surgical mortality in the elderly. J Am Coll Surg 191:S14, 2000.

25. Byrnes CK, Nass PH, Shim JK, **Duncan MD**, Lacy BE, Diamond SL, Harmon JW. Novel nuclear shuttle peptide to increase transfection efficiency in esophageal mucosal cells. Gastroenterology 120:A345, 2001.

26. Nass PH, Byrnes CK, Shim J, **Duncan MD**, Lacy BE, Crowell MD, Harmon JW. Phytoestrogens inhibit cell proliferation and induce apoptosis in esophageal adenocarcinoma cell lines expressing the androgen receptor. Gastroenterology 120:A616, 2001.

27. **Duncan MD**. Endoprosthetic stents for obstructing colonic tumors. Proktologia 2:151, 2001.

28. Shim J, Byrnes K, Nass PH, Harmon JW, Bahadursingh A, **Duncan MD**. Esophagogastric adenocarcinoma in a transgenic model expresses cyclooxygenase-2. J Surg Res 100:302, 2001.

29. **Duncan MD**, Bahadursingh A, Shim J, Wang J, Byrnes CK, Nass PH, Harmon JW. Cyclooxygenase-2 expression in glandular mucosa precedes tumor in a transgenic model of esophagogastric adenocarcinoma. J Clin Gastro 37: 2003.

30. Marti GP, Lin MP, Dieb R, Qaiser R, Ferguson M, Bonde P, Wang J, **Duncan M**, Harmon JW. A bioengineered system of gene therapy and electroporation to improve wound healing, US Department of Defense, peer reviewed medical research program military health forum, San Juan, Puerto Rico April 2004.
31. Sui G, Bonde P, Dhara S, Wang J, **Duncan M**, Montgomery E, Maitra A, Harmon J. Inhibition of the EGFR and hedgehog signaling pathways demonstrate potent growth inhibition in an animal model of esophageal carcinogenesis. *J Surg Res*, 2004.
32. Marti, G, Ferguson M, DiebF, Wang J, Marie, Lin MP, Bonde P, **Duncan MD**, Harmon J. Transfection with keratinocyte growth factor 1 cDNA with electroporation improves wound healing in an aged mouse model. *J Surg Res*, 2004.
33. Lin MP, Marti GP, Dieb R, Wang J, Qaiser R, Bonde P, **Duncan MD**, Harmon JW. Electroporation improves transfection efficiency in rat wound healing model. *J Am Coll Surg* 199:S58-9, 2004.
34. Marti GP, Lin MP, Qaiser R, Dieb R, Wang J, Parth S, Bonde P, **Duncan MD**, Harmon JW. KGF-1 plasmid delivery with electroporation accelerates wound closure in diabetic mice. *J Am Coll Surg* 199:S59, 2004.
35. Bonde P, Gao D, Chen L, Broor A, Marti G, Ferguson M, **Duncan M**, Harmon JW, Wei C. "Duodenal reflux leads to down regulation of DNA mismatch repair pathway in an animal model of esophageal cancer." *Ann Thor Surg*, 2005.
36. Armstrong D, Wang J, Gibson DS, Chen DS, Yoshimura K, Mohebi P, Marti G, Montgomery EA, **Duncan M**, Jaffee EM, Harmon JW. Granulocyte macrophage colony stimulating factor (GM-CSF) transfected vaccine for esophageal cancer causes regression of subcutaneous implants in rats. *J Surg Res* 137:194-5, 2007.

### **RESEARCH GRANTS and AWARDS:**

- 2009 - Participant, "Anesthesia and cognitive decline." Principal Investigator: Dr. Jeremy Walston.
- 2008 - Participant, "Strength of abdominal fascial tissues in incisional hernias after massive weight loss." Principal Investigator: Dr. Michele Shermak.
- 2007 - Subinvestigator, "Molecular basis of Barrett's associated carcinogenesis." Principal Investigator: Dr. Stephen Meltzer.
- 2007 - Subinvestigator, "Molecular basis of colorectal neoplasia." Principal Investigator: Dr. Stephen Meltzer.
- 2000 - 2007 **Principle Investigator**, "Esophago-gastric tumorigenesis in a transgenic model." NIH Mentored Clinical Scientist Development Award **K08 CA76034-01A2**, \$684,286.

- 2008 - 2009 Subinvestigator, NSABP Protocol R-04 "A clinical trial comparing pre-operative radiation therapy and capecitabine with or without oxaliplatin with pre-operative radiation therapy and continuous infusion (CVI) of 5-Flourouracil (5F-U) with or without oxaliplatin in the treatment of patients with operable carcinoma of the rectum. Principal Investigator: Dr. Susan Gearhart.
- 2007 - 2008 Subinvestigator, "A phase II trial of neoadjuvant chemoradiation and local excision for uT2uN0 rectal cancer." Principal investigator: Dr. Susan Gearhart.
- 2004 - 2005 Co-investigator, "Phase II Study of ZD1839 (IRESSA) Combined with Preoperative Chemoradiation and Adjuvant Chemotherapy in Patients with Resectable Rectal Cancer;" Principal Investigator: Dr. Manuel Hidalgo.
- 1999 - 2001 **Principle Investigator**, "Esophagogastric tumorigenesis in a transgenic model." Johns Hopkins University School of Medicine Richard S. Ross Clinician Scientist Award, \$97,500.
- 1999 - 2000 **Principle Investigator**, "Androgen receptor immunohistochemistry in adenocarcinoma and squamous cell carcinoma of the esophagus." Johns Hopkins Bayview Physicians Research and Education Committee, \$5,000.
- 1999 - 2000 Co-investigator, "A phase 2 study to evaluate the safety and efficacy of recombinant human platelet activating factor acetylhydrolase (rPAF-AH) for the treatment of patients with severe acute pancreatitis." Sponsor: ICOS Corporation.
- 1998 - 1999 **Principle Investigator**, "Transgenic model of esophagogastric adenocarcinoma." Johns Hopkins University Fund for Medical Discovery, \$10,000.
- 1997 - 1998 **Principle Investigator**, "Molecular characterization of neuropeptide receptor expression in malignant tumors of the alimentary tract." Chesapeake Research and Education Mini Grant, \$5,000.
- 1996-1997 Co-investigator, "A double-blind, randomized, placebo-controlled, multi-center trial to evaluate the efficacy and safety of two doses of lexipifant for the treatment of acute pancreatitis (D06/IVB/215). Sponsor: British Biotech.

**EDUCATIONAL ACTIVITIES:**

**Teaching:**

**Medical Student Education**

*Classroom instruction:*

Medical Student lectures (Georgetown University): 1 – 1.5 hours; 4-8 students

*1994-1995 unrecorded.*

*Gastroduodenal disease; bleeding and transfusion; pancreatic disease; postoperative care*  
1/24/96; 2/28/96; 3/27/96; 4/5/96; 4/17/96; 5/15/96; 5/22/96; 6/12/96; 7/10/96; 7/29/96; 7/31/96

*Seminar case reviews:*

3/21/96; 5/13/96; 5/20/96

Medical Student lectures (Johns Hopkins University): 1 – 1.5 hours; 4-8 students

Preceptor and Lecturer, Surgery Curriculum, Johns Hopkins University School of Medicine (MS II, III, IV), 1996-present.

*Gastrointestinal / colorectal:* 10/21/96; 11/18/96; 12/18/96; 9/8/97; 11/17/97; 2/4/98; 4/21/98; 9/4/98; 12/1/98; 4/9/99; 9/13/99; 11/16/99; 2/8/00; 4/7/00; 9/7/00; 1/30/01; 4/6/01; 11/20/01; 1/28/03; 9/29/03; 1/5/04; 4/19/04; 9/27/04; 11/11/05; 4/17/06; 11/14/06; 12/1/06; 4/13/07

*Hepatobiliary:* 10/25/96; 12/18/96; 9/23/97; 12/3/97; 2/17/98; 5/6/98; 9/29/98; 12/18/98; 2/23/99; 5/4/99; 12/3/99; 2/25/00; 5/2/00; 12/1/00; 2/27/01; 5/1/01; 12/4/01; 2/25/03; 9/22/03; 12/1/03; 2/23/04; 11/11/04; 1/26/05; 2/27/06; 5/8/06

*Esophagogastric:* 12/12/06; 2/6/07

*Breast disease:* 10/8/99

*Oncology:* 4/30/01

*Imaging:* 9/18/98

*Perioperative management:* 1/5/98

*Ethics:* 5/12/03

*Seminar case reviews:* 11/15/96; 12/4/96; 12/11/96; 1/6/97; 3/10/97; 9/10/97; 9/26/97; 12/3/97; 10/13/98; 1/20/99; 1/26/99; 2/2/99; 2/4/99; 2/8/99; 4/2/99; 4/7/99; 4/16/99; 5/7/99; 5/14/99; 5/21/99; 2/1/00; 2/3/00; 2/7/00; 2/14/00; 3/2/00; 4/5/00; 4/25/00; 4/27/00; 5/2/00; 5/9/00; 5/16/00; 5/18/00; 5/25/00; 5/30/00; 1/18/01; 1/26/01; 2/12/01; 2/15/01; 3/1/01; 3/2/01; 11/20/01; 11/27/01; 12/4/01; 12/18/01; 1/24/03; 2/4/03; 2/28/03; 10/17/03; 10/20/03; 5/10/04; 8/28/09;

Medical School Oral examinations in surgery: 1/10/03

Medical Student applicants:

1/28/00; 2/25/00; 9/22/00; 10/6/00; 9/19/08

**Surgical medical student clerkship director Johns Hopkins Bayview**

2009 – present

Meet twice weekly with 4-8 students during 9 week clerkship. Case review, didactics.

“Golden Apple” Surgery Clerkship Teaching Award – Outstanding Faculty Teacher 2008-2009.

*Course instructor:*

“Introduction to Clinical Medicine,” JHU School of Medicine.

One student per year for weekly tutorial; 4 hours per week

2001-2	Lee Haselhuhn
2002-3	Benjamin Silverman
2003-4	Jean Yoo
2005-6	Anthony Carlino
2006-7	Chris Chapman
2007-8	James Chen

**Undergraduate Education**

“Tutorial - Cancer Surgery,” The Johns Hopkins University (undergraduate).

Full semester course; 4-6 hours per week with student.

The description of the course reads as follows: *“The tutorial is an opportunity to take part in the care of cancer surgery patients as well as general surgery. It typically involves ½ day every week of coming to the hospital, meeting patients, observing surgery, discussing medicine, surgery, cancer, the human response to illness, the role of the physician and the doctor-patient relationship, balancing medicine and lifestyle, and some ethical issues related to health care [as well as life, liberty, and the pursuit of happiness].”*

2001 – 2	Michelle Yum Kincaid
2001 – 2	Jonathan Anderson
2001 – 2	Aimee Inzu Wu
2002 – 3	Nadia Awad
2002 – 3	Monica Soderlund
2002 – 3	Nihar Ganju
2004 – 5	Yelena Karbinovskaya
2005 – 6	Gina Sook Kim
2005 – 6	Amanda Crichlow

2006 - 7	Elisabeth Meinert
2006 - 7	Jana Lichtenfeld
2007 - 8	Lucy Amory
2008 - 9	Jinesh Shah
2008 - 9	Roger Yuh
2009 - 10	Kayla Marchase
2009 - 10	Danielle Seiden
2009 - 10	Ryan Rauck

“Master Clinician Program,” The Johns Hopkins University (undergraduate).  
2009 -

Host / mentor - National Youth Leadership Forum (high-achieving high school students); 2004, 2005, 2006, 2007, 2008, 2009.

Mentor- senior project for high school students, the Key School, Annapolis MD.; 2008.

Mentor – senior project for high school student, the Friends School, Baltimore, MD; 2008.

Mentor – Capstone project (year long project), Science and Math Academy at Aberdeen High School, 2008 – 2009.

Jacquelyn Booth

### **Resident Education**

#### *Clinical instruction:*

a. Operating Room teaching of residents (PGY1, PGY2, PGY4, PGY5, fellows). As the busiest general surgeon at Johns Hopkins Bayview, I have ample opportunity to teach in the OR. I perform approximately 300 operations per year, of which 98% are performed by residents under my direct supervision and instruction. I have been the teaching instructor for over **3,900** operations at John Hopkins

\*Demonstration of excellence in operative teaching is reflected in resident E\*Value evaluations of my performance (available on request). \*

b. Supervision of inpatient care. I am “on service” 12 months per year (ie. At all times). I directly supervise resident care of all of my inpatients, including daily discussion (7 day per week) of every patient with the resident staff every day of the year; daily patient care teaching (5 days per week) at both the advanced (PGY4,5) and early (PGY 1,2) level of instruction.

c. Supervision of outpatient care at the Surgical Clinic and at the Oncology Clinic. I had over 1000 outpatient visits this past year in the clinics.

Departmental recognition for excellence in resident education, 2000, 2003.

*d. CME instruction:*

Director of weekly Tumor Board, 1999-2006; 2008 - present

*e. Surgical Skills Training:*

Vascular access/PA catheters/Ultrasound guidance PGY-I; 3 hours, 17 Aug, 2006.

Vascular access/PA catheters/Ultrasound guidance PGY-I; 3 hours, 26 July, 2006.

Open abdomen; close; bowel suture, resection, stapling PGY-I; 3 hours, 25 Oct, 2007.

Open abdomen; close; bowel suture, resection, stapling PGY-I; 3 hours, 1 Nov, 2007.

Vascular access/PA catheters/Ultrasound guidance PGY-I; 3 hours, 28 Aug, 2008.

Open & close abdomen; bowel suture, resection, stapling PGY-I; 3 hours, 22 Jan, 2009.

Open & close abdomen; bowel suture, resection, stapling PGY-I; 3 hours, 19 Mar, 2009.

Vascular access/PA catheters/Ultrasound guidance PGY-I; 3 hours, 23 July, 2009.

Open abdomen; close; bowel suture, resection, stapling PGY-I; 3 hours, 22 Oct, 2009.

Mock oral board evaluation senior & chief residents, 2 ½ - 4 hours 4/28/01; 6/7/03; 5/10/07.

Mock oral board evaluation junior residents (Tawam hospital, Al-Ain, UAE) 3/26/08.

**Mentoring:**

*Advisees:* Benny Tan, M.D., - Placed in categorical program Harvard/MGH, Boston, MA.

Kurt Roberts, M.D., - Placed in categorical program U. Washington, Seattle, WA.

Alex Aurora, M.D. - Placed in categorical program Sinai Hospital, Baltimore, MD.

*Fellowship mentoring:*

Surgical Oncology Fellowship Training [Bayview Hospital] (PGY6), 1999-2005.

1999 Herb Chen, M.D.; currently University of Wisconsin, Madison.

2000 Kevin Stavely-O'Carroll, M.D.; currently Penn State University.

2001 Steve Goldin, M.D.; currently University of Florida Tampa

2002 Herbert J. Zeh III, M.D.; currently University of Pittsburgh, PA

2003 Nita Ahuja, M.D.; currently Johns Hopkins University, Baltimore, MD.

2004 Eric Nakakura, M.D.; currently University of California San Francisco.

2005 Eugene Kennedy, M.D.; currently Thomas Jefferson University, Philadelphia, PA.

Minimally invasive surgical fellowship Bayview Hospital, 2007-

2007 Jerome Lyn-Sue, M.D.; Anirban Gupta, M.D.

2008 Hien Nguyen, M.D.

Faculty Leadership Development, "Emerging leaders" Johns Hopkins University, 2007-2008

Teaching Teachers Retreat, JHU May 12, 2007.

**CLINICAL ACTIVITIES:**

**Certification:**

Licensed in Maryland No. D51208, issued October 1, 1996.

Licensed in the District of Columbia No. MD18022, issued August 9, 1989.

American Board of Surgery, #42659, 1997; recertified 2006.

Advanced Trauma Life Support, 2001-2005.

**Service Responsibilities:**

Surgical Oncology, General Surgery.

300 operations/year (most clinically active general surgeon at JHBMC)

**Miller-Coulson Academy of Clinical Excellence, accepted 2010.**

The Academy strives to recognize the *consummate academic clinician*; a well-rounded physician who has achieved a level of mastery in each domain of clinical excellence.

**Program Building / Leadership:**

**Cancer program at JHBMC:**

As Chief of Surgical Oncology and Chairman of the Cancer Committee for Johns Hopkins Bayview Medical Center, Dr. Duncan has worked to organize and direct multi-disciplinary care of the cancer patient. He instituted the consultative and educational conferences of the weekly Tumor Board meeting, now regularly attended by physicians and nurses from throughout the medical center. Prior to Dr. Duncan's involvement, there was little representation from Radiation Oncology in patient care at Bayview, nor was there any systematic coordination of cancer care between surgical and medical divisions. Radiation Oncology now staffs a clinic at Bayview, regularly attends the Tumor Board, and plans are in the works for a linear accelerator to provide radiation treatment on this campus. Dr. Duncan helped lead the effort to establish Medical Oncology as a department at Bayview, and helped coordinate inpatient care to establish the Med B unit as the functional equivalent of an inpatient oncology unit. Dr. Duncan worked with pathology to include American Joint Commission on Cancer (AJCC) cancer staging on all pathology reports. He formed and chaired the Cancer Committee, directing the promulgation of standards of cancer care for JHBMC patients. These duties included standardization for pathology reporting, implementing cancer staging in clinical reports and the electronic medical record, and oversight of the Tumor registry. All of these efforts have directly benefitted the cancer patients receiving care at JHBMC, and have culminated in Johns Hopkins Bayview

receiving certification with commendation from the Commission on Cancer as a certified Teaching Hospital Cancer Program.

Achieved 3-year Certification with commendation for a New Cancer Program by the Commission on Cancer for JHBMC.

**“Outstanding Achievement Award” from Commission on Cancer, 2009.**

Developed Division of Surgical Oncology including breast, thoracic, endocrine, esophagogastric, colorectal, and sarcoma surgery.

Recruited junior faculty in Surgical Oncology to Bayview.

Launched **“Johns Hopkins Cancer Surgery Second Opinion Program”** in 2008; Co-director.

This program has attracted patient from locally, regionally, and abroad to receive surgical cancer care at Johns Hopkins on the Bayview campus. It provides service to patients, their referring physicians, and serves as well to elevate the status of Johns Hopkins Bayview as a choice destination for cancer care.

Established Johns Hopkins Bayview as a “high volume center” for pancreatic surgery.

Implemented and Direct Tumor Board at Bayview.

Implemented Radiation Oncology consultations at Bayview.

Helped establish Medical Oncology as a Department at Bayview.

Helped recruit Chief of Oncology at Bayview.

Implemented inpatient Oncology unit.

Tumor conference as registered CME activity.

Published Annual Cancer Report for Bayview 2003 - present.

*During Tenure as Interim Chairman at Bayview:*

Dr. Duncan was asked to step in as Interim Chairman of Surgery at Johns Hopkins Bayview in 2004 during a difficult period of transition for the department. Dr. Duncan provided this and helped launch the success that Johns Hopkins Bayview now enjoys. The growth in volumes and successful surgical services follows directly from this time when Dr. Duncan helped assemble the faculty listed below to expand the surgical practice. Systematic change was instituted, including but not limited to the inclusion of midlevel providers in inpatient and outpatient surgical care, the adoption of the 80 hour work week for residents, the implementation of computer order entry for physicians, and the implementation of a multidisciplinary team of intensivists to provide ICU coverage to the SICU and Burn unit. Further, the general and vascular surgery service at Johns Hopkins Bayview continues to get accolades from the residents for the quality of surgical education and training. Dr. Duncan led the department through this time, maintained its profitability, and began the transformation to the current status. After relinquishing the position, Dr. Duncan continues to function as a senior surgical leader for the department and for the hospital.

*During Tenure as Interim Chairman at Bayview:*

Recruited 2 vascular surgeons to faculty.  
Recruited 2 minimally invasive surgeons to faculty.  
Helped recruit burn surgeon and director to faculty.  
Helped recruit new Chairs of Pathology and Oncology.  
Maintained surgical volumes and services despite 30% faculty loss preceding appointment.  
Led operating room and hospital through wrong site surgery recovery (event on other service).  
Implemented line service by NP's for placing central venous access for hospital.  
Developed mid-level providers for surgery service.  
Implemented combined surgery and anesthesia intensivist service for SICU.

**ORGANIZATIONAL ACTIVITIES:**

**Institutional Administrative Appointments: (current)**

Cancer Committee, Johns Hopkins Bayview

*Chairman*, 1999 - present.

*Director, Tumor Board*, 1999-2006; 2008 – present

*Certification task force / Oncology standards*

*Tumor registry review*

*Cancer liaison physician*, 1999-2004.

Associate Professorial Promotions Committee, Johns Hopkins University, 2004 - present.

*Vice Chair*, 2006 - present.

Risk Management Committee, Johns Hopkins Bayview, 2004-present.

Bylaws Committee, Johns Hopkins Bayview, 2003-present.

Resident selection, Department of Surgery, 2004-5; 2008-9; 2009-10

Surgical medical student clerkship director Johns Hopkins Bayview, 2009 - present

Root Cause Analysis Team (narcotic overdose), JHBMC, 2010 - present.

**(previous)**

Medical Board, Johns Hopkins Bayview, 2001-2006

*Vice Chair*, 2003 - 2006.

Operating Room Committee, Johns Hopkins Bayview

*Chairman*, 2004 - 2006.

Root Cause Analysis team (wrong site surgery), Johns Hopkins Bayview, 2008.

*Team Leader*

Operating Room Design & Expansion, Johns Hopkins Bayview, 2005-2006.

Executive Council, Johns Hopkins Bayview, 2004 - 2006.

Information Services Advisory Committee, Johns Hopkins Bayview, 2005-2007.

Advisory Board, Johns Hopkins Bayview, 2004-2006.

Search Committee, Chair of Pathology, Johns Hopkins Bayview, 2005.

Surgical Joint Practice Committee, Johns Hopkins Bayview, 1999-2005.

*Chairman*, 2004-2005.

OR Governance Committee, Johns Hopkins Bayview

*Chairman*, 2004 - 2006.

Search Committee, Chair of Oncology, Johns Hopkins Bayview, 2004.

Surgery Dept. Executive Committee, Johns Hopkins Hospital, 2004-2005.

Education Committee, Dept. Surgery, Johns Hopkins University, 2003-2004.

Ethics Committee, Johns Hopkins Bayview, 2001-2004.

Governance task force, H\*Works advisory committee, JHBMC, 2003-2004.

Preoperative standardization, H\*Works advisory committee, JHBMC, 2003-2004.

Surgical Infection Prevention Planning (SIPP) Team, JHBMC, 2002-2004.

*Clinical champion*

Clinical Practice Committee, Johns Hopkins Bayview, 1999-2004.

Investigative Action Committee, JHBMC

*Chairman*, 2004.

Investigative Action Committee, JHBMC, 2003.

Ad-hoc Special Review Committee, JHBMC, 2003.

Sentinel event root cause analysis team (surgery for mis-diagnosis), JHBMC, 2002.

Bayview Research Advisory Committee, 2001- 2003.

Committee for Procedure Review, Johns Hopkins Bayview

*Chairman*, 1996-2000.

ER Through-put admissions Ad hoc committee, JHBMC, 1999.

Medical Record Legibility Work Group, Johns Hopkins Bayview, 1998-1999.

Perioperative Committee, Johns Hopkins Bayview, 1996-1998.

Animal Studies Committee, Research and Development, VAMC, 1995-1996.

Administrative Board of Investigation, VAMC

*Chairman*, 1995.

Surgical Quality Improvement Committee, VAMC

*Chairman*, 1994-1996.

Surgical Care Maps Task Force, VAMC, 1994-1996.

Senior Leadership in Transition Seminar, Johns Hopkins University, May 26-7, 2004.

Clinical Investigation Retreat, Baltimor, MD, Jan 7-8, 2006.

Outcomes Research Course, American College of Surgeons, Chicago, IL Nov 16-19, 2006.

### **Editorial Activities:**

Editorial Board:

*The American Journal of Hematology/Oncology*

Journal Peer Review:

*Annals of Surgery*

*Annals of Surgical Oncology*

*Clinical Cancer Research*  
*Journal of Surgical Research*  
*Archives of Surgery*  
*Medicine*  
*The Journal of Burns and Wounds / ePlasty*

Grant Review:

*Department of Veterans Affairs*

Abstract Review:

*SSAT*

**Professional Societies:**

Fellow, American College of Surgeons

*Executive Committee, D.C. Chapter, American College of Surgeons, 1993-94.*

Southern Surgical Association

Society of University Surgeons

Society of Surgical Oncology

American Board of Surgery

*Associate Examiner, 2003, 2007.*

Society for Surgery of the Alimentary Tract

Association for Academic Surgery

American Association for Cancer Research

American Society of Clinical Oncology

Organisation mondiale d'Etudes Spécialisées sur les maladies de l'Oesophage

The Pancreas Club

Baltimore Academy of Surgery

Mayo Alumni Association

Robert B. Wallace Society

**COMMUNITY ACTIVITIES:**

American Cancer Society

*Board of Directors, Greater Baltimore*

2001-05

Assistant coach, soccer U-9, U-11

Annapolis, MD

1999-01

Head coach, baseball U-12

Arden, MD

2002

Assistant coach, T-ball/baseball

Annapolis/Arden, MD

2002-3

**Volunteer assist & coach, Navy youth hockey**

**Annapolis, MD**

**2004- present**

Certified USA Hockey Coaching Education Program #236065 level 2

2005-11

**AWARDS, HONORS:**

Service Excellence Award, "Catch a shining star," Johns Hopkins, February, 2010.

Service Excellence Award, "Catch a shining star," Johns Hopkins, January, 2010.

Service Excellence Award, "Catch a shining star," Johns Hopkins, December, 2009.  
Quarterly winner, 2<sup>nd</sup> QFY10, Team Award "Catch a shining star," Johns Hopkins, Nov, 2009.  
Service Excellence Award, "Catch a shining star," Johns Hopkins, September, 2009.  
Service Excellence Award, "Catch a shining star," Johns Hopkins, August, 2009.  
Service Excellence Award, "Catch a shining star," Johns Hopkins, March, 2009.

**"Golden Apple" Surgery Clerkship Teaching Award – Outstanding Faculty Teacher 2008-2009.**

Quarterly winner, Service Excellence, Johns Hopkins Medicine, Sept. 2008.  
Service Excellence Award, "Catch a shining star," Johns Hopkins, August, 2008.  
Service Excellence Award, "Catch a shining star," Johns Hopkins June, 2008.  
Service Excellence Award, "Catch a shining star," Johns Hopkins October, 2007.

**Richard S. Ross Clinician Scientist Award , Johns Hopkins University; 1999.**

Johns Hopkins University Fund for Medical Discovery, 1998.  
On the Spot Award for Leadership, 1996, Veteran Affairs Medical Center, Washington, DC.  
Charles A. Hufnagel Research Forum, first prize, 1991, Georgetown University.  
Washington Academy of Surgery Research Forum, first prize, 1991.  
Charles A. Hufnagel Research Forum, second prize, 1990, Georgetown University.  
Outstanding Resident, Surgical Service, 1989, DC General Hospital.

**INVITED TALKS and PRESENTATIONS:**

1. "Regulation of enterocyte growth and development." The Uniformed Services University of the Health Sciences Surgical Research Forum "Young Investigators in Progress", Washington, DC; January 11, 1990.
2. "Insulin and insulin-like growth factors enhance the proliferative effect of EGF on cultured human intestinal epithelial cells." American Gastroenterological Association, San Antonio, TX; May 15, 1990.
3. "Synergy between insulin-like growth factors and EGF in human enterocytes." Charles A. Hufnagel Surgical Research Forum, Washington, DC; June 2, 1990.
4. "Synergy between insulin-like growth factor & EGF in humans," GI Hormone Symposium, Florissant, CO; June 22, 1990.
5. "Synergy between EGF and insulin-like growth factors in an human enterocyte cell line." The Washington Academy of Surgery, Washington, DC; January 24, 1991.
6. "Epidermal growth factor primes human enterocytes for the proliferative effect of insulin-like growth factor I." The Society of University Surgeons, Galveston, TX; February 8, 1991.
7. "Somatostatin fails to inhibit human enterocyte proliferation in vitro," The Society for Surgery of the Alimentary Tract, New Orleans, LA; May 20, 1991.
8. "The IGF-I receptor mediates both insulin and IGF-I proliferative response in human enterocytes," American Gastroenterological Association, New Orleans, LA; May 21, 1991.
9. "Extracellular matrix down-regulates epidermal growth factor receptors in intestinal epithelial

cells," Association for Academic Surgery, Colorado Springs, CO, November 21, 1991.

10. "Extracellular matrix down regulates IGF-I and EGF receptors in human intestinal epithelial cells." Charles A. Hufnagel, MD Surgical Research Forum, Washington, DC; June 1992.

11. "GI peptides and cancer." Grand Rounds, Department of Surgery, Georgetown University Medical Center, Washington, DC; December 10, 1994.

12. "Antibiotic prophylaxis in the operating room." Surgical Nursing CME, VAMC, Washington, DC; June 5, 1995.

13. "Bombesin stimulation of focal adhesion kinase in tumor cells." GI Hormone Symposium, Florissant, CO; July 29, 1995.

14. "New strategies to disrupt neuropeptide signaling in cancer." Grand Rounds, Department of Surgery, Georgetown University Medical Center, Washington, DC; August 19, 1995.

15. "Decentralized hospital computer program (DHCP) imaging in surgery." Washington, DC; September 28, 1995.

16. "Actin disruption inhibits neuroendocrine stimulation of focal adhesion kinase in prostate carcinoma." Association for Academic Surgery, Ann Arbor, MI; November 11, 1995.

17. "A novel strategy to identify agents targeting neuropeptide responsive tumors." GI Hormone Symposium, Florissant, CO; July 25, 1996.

18. Lab talk, Dept of Surgery November 21, 1996.

19. "Cucurbitacin E targets proliferating endothelia." Association for Academic Surgery, Chicago, IL; November 15, 1996.

20. "Pathogenesis and management of malignant colorectal polyps." 2<sup>nd</sup> Colorectal Symposium, Łódź, Poland; June 6, 1997.

21. "A transgenic model for esophageal adenocarcinoma." Surgical Gut Hormone Symposium, Florissant, CO; July 27, 1997.

22. "Characterization of an aFGF gene expression vector with therapeutic potential." Association for Academic Surgery, Dallas, TX; November 7, 1997.

23. "Modeling esophagogastric cancer" Pathology dept. research lecture, March 11, 1998.

24. "Tumorigenesis at the squamocolumnar junction in an E1A/E1B transgenic model of esophagogastric adenocarcinoma." American College of Surgeons, Surgical Forum, Orlando, FL; October 26, 1998.

25. "Esophagogastric adenocarcinoma in an E1A/E1B transgenic model involves p53 disruption." The Society for Surgery of the Alimentary Tract, Orlando, FL; May 18, 1999.

26. "The role of pelvic exenteration in primary and recurrent colorectal cancer." 3<sup>rd</sup> Colorectal Symposium, Zakopane, Poland; June 10, 1999.

27. "Selection of patients for surgical treatment of colonic dysmotility: Antroduodenal manometry to predict outcomes following total abdominal colectomy." 3<sup>rd</sup> Colorectal Symposium, Zakopane, Poland; June 10, 1999.

28. "A transgenic model of esophagogastric adenocarcinoma." Oncology Research Grand Rounds, Baltimore, MD; February 29, 2000.

29. "Surgical research presentation" Dept of Surgery, March 3, 2000.

30. "Surgical research presentation" Dept of Surgery, March 13, 2000.

31. "Complicated gastrointestinal surgery." CME for ICU Nursing, May 30, 2000.

32. "Genetics of colon cancer." Grand Rounds, Department of Surgery, Saint Joseph's Medical Center, Baltimore, MD; July 21, 2000.

33. "Surgical aspects of gastrointestinal bleeding." CME for ICU Nursing, August 8, 2000.

34. "Transgenic model of esophagogastric adenocarcinoma." World Organization for Specialized

Studies on Diseases of the Esophagus, Paris, France; September 4, 2000.

35. "Endoprosthetic stents for obstructing colonic tumors." 4<sup>th</sup> Colorectal Symposium, Gdansk, Poland; June 21, 2001.
36. "Gastrointestinal bleeding of undetermined origin." 4<sup>th</sup> Colorectal Symposium, Gdansk, Poland; June 21, 2001.
37. "Esophageal adenocarcinoma: pathophysiology and early detection," Surgery Grand Rounds, Johns Hopkins Hospital, Baltimore, MD; January 19, 2002.
38. Moderator, SSAT Research Forum - small intestine, The Society for Surgery of the Alimentary Tract, San Francisco, CA; May 21, 2002.
39. "Gastrointestinal malignancy - the medical/surgical interface." Medicine house staff teaching conference, November 1, 2002.
40. "Primary management of colon cancer," Surgery Grand Rounds, Johns Hopkins Hospital, Baltimore, MD; March 1, 2003.
41. "Esophageal cancer" GI / Surg conference Johns Hopkins Bayview, March 12, 2003.
42. "Surgery for colon cancer: What are the options?" Current concepts in the multidisciplinary management of colorectal cancer, Johns Hopkins University School of Medicine, Baltimore, MD; April 3, 2003.
43. "Women and colon cancer." White Marsh women's health fair, Baltimore, MD May 7, 2003.
44. "Gastrointestinal surgery - what the surgeon wants the internist to know." Medicine house staff teaching conference, August 8, 2003.
45. "Lessons learned from animal models of esophageal cancer." 7<sup>th</sup> polydisciplinary congress on diseases of the esophagus O.E.S.O., Paris, France; September 2, 2003.
46. "Retroperitoneal tumor surgery," Surgery Grand Rounds, Johns Hopkins Hospital, Baltimore, MD; December 11, 2003.
47. "Open esophageal procedures." core curriculum lecture to senior residents, Johns Hopkins Hospital, Baltimore, MD; January 27, 2005.
48. "Is surgery necessary after neoadjuvant combined chemoradiotherapy for esophageal cancer?" Surgery Grand Rounds, Johns Hopkins Hospital, Baltimore, MD; June 1, 2006.
49. "Surgery for Barrett's esophagus" 32<sup>nd</sup> Topics in Gastroenterology and Liver Disease, Baltimore, MD; October 5, 2006.
50. "Pathophysiology of the surgical abdomen." Medicine housestaff teaching conference, January 2, 2007.
51. "Retroperitoneal sarcoma," Tumor Board didactic lecture, January 11, 2007.
52. "Gastric cancer," combined GI & Surgery lecture, January 31, 2007.
53. "Surgery vs. definitive chemoradiation therapy for esophageal cancer," Tumor Board didactic lecture, March 8, 2007.
54. "Oncologic consequences of colorectal leak; or the benefits of a low leak rate," Tumor Board didactic lecture, April 19, 2007.
55. "Limiting interventions," Clinical Ethics Curriculum; JHU July 7, 2007.
56. "Geriatric Surgical Oncology" Geriatric fellow/faculty lecture; JHU Mar 17, 2008.
57. "Complex gastrointestinal surgery" Visiting Professor knowledge transfer program to Tawam Hospital, Al-Ain, United Arab Emirates, March 25, 2008.
58. "The Surgical Oncologist's Guide to Gastric Cancer: Selection, staging, surgery and survival" Visiting Professor Grand Rounds knowledge transfer program to Tawam Hospital, Al-Ain, United Arab Emirates, March 26, 2008.
59. "Surgical Oncology in the Elderly: Selecting for success" Surgical housestaff lecture, JHU

16 April, 2008.

60. "The acute surgical abdomen." Acute Medicine Course, JHU, August 15, 2008.
61. "Cancer surgery in the elderly." Medicine housestaff core course, JHU, September 12, 2008.
62. "Cancer surgery in the elderly." Surgical housestaff conference, JHU, 2009. February 4, 2009.
63. "The acute surgical abdomen." Acute Medicine Course, JHU, September 14, 2009.
64. "So you want to be a cancer surgeon..." lecture to premedical students JHU, September 2009.
65. "Tumors of the stomach, duodenum, small bowel." core curriculum lecture to senior residents, Johns Hopkins Hospital, Baltimore, MD; November 19, 2009.
66. "Colorectal cancer." core curriculum lecture to senior residents, Johns Hopkins Hospital, Baltimore, MD; January 28, 2010.