Kathryn L. Butler, MD

EDUCATION

2002 – 2006 Columbia University College of Physicians and Surgeons M.D.
New York, NY
Alpha Omega Alpha

1998 – 2002 Barnard College A.B., Biochemistry
New York, NY
Summa cum laude
Phi Beta Kappa

POSTDOCTORAL TRAINING

2009- 2010 Fellowship in Surgical Critical Care
Massachusetts General Hospital, Boston, MA
American Board of Surgery Certification passed September 2010

2006 – present Residency in General Surgery
Massachusetts General Hospital, Boston, MA
Board eligible 2012

LICENSURE

2009 Massachusetts Board of Registration in Medicine

HONORS AND AWARDS

2011 Candidate Member, Association of Academic Surgery

2007 Tufts University School of Medicine Resident Teaching Award

2006 Edward T. Bello Listening Award, Columbia University College of Physicians and Surgeons
"To a graduating student who will best portray the art of listening to patients, colleagues, and self in practicing medicine."

2006 Gold Humanism Honor Society, Columbia University College of Physicians and Surgeons

2003 Endocrine Society Student Summer Fellowship

2002 Orazio DiMauro Foundation Scholarship

Regional scholarship "for academic promise in medical school"

2002 Frank Gilbert Bryson Prize, Barnard College
"Conferred upon a graduating senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years."

2002 American Institute of Chemists New York Chapter Prize in Biochemistry

2002 Ida and John Kauderer Prize in Chemistry, Barnard College

2002 Alpha Zeta Club Graduate Scholarship, Barnard College
"Awarded to a graduating senior who shows promise of distinction."

2002 The Barbara Ann Liskin Memorial Prize, Barnard College
For a premedical student committed to humanism

2001 Nominee, Goldwater Scholarship, Barnard College

2001 The Marie Reimer Prize in Chemistry, Barnard College

2001 Second Prize, The Eleanor Thomas Elliott Prizes, Barnard College
"Awarded to two juniors from among the five most outstanding students in the class based upon overall academic record, integrity, and good citizenship in the College."

2001-2002 Senior Honors Thesis Program in Biochemistry, Barnard College

1998-2002 Centennial Scholar, Barnard College
One of fifteen students in class of 2002 invited to pursue independent study.

1998 Nominee, Howard R. Swearer Humanitarian Award, Barnard College

1999 Pew Science Foundation Internship Award
For neuroscience research.

1998 Barton L. Weller Scholarship
Regional $10,000 scholarship for completion of 230-page memoir. Appeared on *Good Morning America.*

RESEARCH EXPERIENCE

2009 – 2010 Massachusetts General Hospital, Department of Burns, Boston, MA
Studied neutrophil motility in burn patients vs. healthy controls using a novel microfluidics assay. PI: Dr. Daniel Irimia.

2009 – 2010 Shriners Hospital for Children, Boston, MA

Developed Western blot protocols to nvestigate time and concentration variance of UCP-1 levels in rat brown adipose tissue after burn injury. PI: Dr. Ronald G. Tompkins.

2003 Department of Pediatric Endocrinology, Columbia Presbyterian Medical Center, New York, NY

Investigated metabolic effects of oral contraceptives on young women with polycystic ovarian syndrome (PCOS). Studied correlations between gestational diabetes and markers for insulin resistance among children. PI: Dr. Sharon Oberfield.

2002-2003 Department of Radiation Oncology, Columbia Presbyterian Medical Center, New York, NY

Investigated testosterone recovery among prostate cancer patients receiving combined radiation and hormone therapy. PI: Dr. Ronald Ennis.

2001-2003 Shinnar Lab in Biochemistry, Barnard College, New York, NY

Studied chemical and physical properties of brominated tryptophan. Investigated the role of this novel amino acid in antimicrobial peptides isolated from hagfish. PI: Dr. Ann E. Shinnar

1999-2000 Silver Lab in Neurobiology, Columbia University, New York, NY

Developed Western blot protocols for neural tissue in golden hamsters, in preparation for experiments to investigate the migratory patterns of Calbindin D28-K in the suprachiasmatic nucleus. PI: Dr. Rae Silver

ARTICLES

2010 **Butler KL**, Ambravaneswaran V, Agrawal N, Bilodeau M, Toner M, Tompkins RG, Fagan S, Irimia D. "Burn injury reduces neutrophil directional migration speed in microfluidic devices." *PLoS One* (2010) Jul 30, 5(7): e11921.

2010 **Butler KL**, Ambravaneswaran V, Agrawal N, Bilodeau M, Toner M, Tompkins RG, Fagan S, Irimia D. "Burn injury inhibits neutrophil chemotaxis in microfluidic devices." *Proceedings - µTAS 2010 Fourteenth International Conference on Miniaturized Systems for Chemistry and Life Sciences*. October 2010.

2010 **Butler KL**, Goverman J, Ma H, Fischman A, Yu YM, Bilodeau M, Rad AM, Bonab AA, Tompkins RG, Fagan SP. "Stem cells and burns: Review and therapeutic implications." *J Burn Care Res* (2010) Nov-Dec, 31(6): 874-881.

2003 Shinnar AE, **Butler KL**, Park HJ. "Cathelicidin family of antimicrobial peptides: proteolytic processing and protease resistance." *Bioorganic Chemistry* (2003) 31(6): 425 – 436.

CHAPTERS

2011 **Butler KL,** Sheridan R. "Organ Failures in Burns." *Handbook on Burns.* Ed Jeske, M. Springer-Verlag (In press)

2010 **Butler KL,** Sheridan R. "Long Term Outcomes After Burn Injury in Children." *Textbook of Pediatric Burns*. Ed Phillips, Brad. Cambria Press. (In Press)

ABSTRACTS/ PRESENTATIONS

2010 **Butler KL**, Ambravaneswaran V, Bilodeau M, Toner M, Tompkins RG, Fagan S, Irimia D. "Burn injury inhibits neutrophil chemotaxis in microfluidic devices." *American Burn Association 42nd Annual Meeting,* March 2010. (Presented)

2010 "Burn injury inhibits neutrophil chemotaxis in microfluidic devices." Massachusetts General Hospital Department of Surgery Grand Rounds, March 2010.

2010 "A case of massive hemoptysis." Massachusetts General Hospital Pulmonary/ Anesthesia Combined Grand Rounds, January 2010.

2008 Ustin J, Muhammad UB, **Butler KL**, Alam HB, Velmahos GC, DeMoya MA. "ICP response to 23.4% hypertonic saline exceeds response to mannitol in traumatic brain injury." *ACS-Committee on Trauma Resident Paper Competition,* October 2008. (Presented)

2004 Hassoun A, Pitta G, **Butler K**, Manibo AM, McMahon DJ, Denburg M, Devine P, Goland R, Silfen ME, Oberfield SE. "Metabolic and hormonal characteristics of children born to women whose pregnancies were complicated by gestational diabetes." *The Endocrine Society's 86th Annual Meeting,* 2004. (Presented)

LEADERSHIP

2010-present Resident Representative, Surgical Education Committee, Massachusetts General Hospital Department of Surgery

2004-2005 Contributing Editor, *Reflexions Literary Magazine*, Columbia University College of Physicians and Surgeons

2002-2003 Class Representative and Co-Chair, Student Wellness Committee, Columbia University College of Physicians and Surgeons

2002-2004 Coordinator, Pediatrics Interest Group, Columbia University College of Physicians and Surgeons

2002-2003 Co-Founder and Coordinator, Cancer Interest Group, Columbia University College of Physicians and Surgeons

2000-2002 Resident Assistant, Residential Life and Housing, Barnard College

2000 Representative, Ivy Leaders Summit, Yale University

2000 Resident Assistant, "Summer in New York" Pre-College Program, Barnard College

1999-2002 Founder and Co-Chair, Dying to be Thin: A Conference on Body Image and Eating Disorders, Barnard College

1999-2001 Founder, Barnard Eating Disorders Awareness Society, Barnard College

TEACHING EXPERIENCE

2011 Surgical Skills Simulation Teacher for Medical Students, Massachusetts General Hospital

2009 Attendee, American College of Surgeons "Residents as Teachers and Leaders Conference", Chicago, IL

2003-2004 Teacher, Histology, Student Success Network**,** Columbia University College of Physicians and Surgeons

1999-2002 Tutor, Biochemistry, General Chemistry, and Analytical Chemistry Barnard College

2000 Teacher, Chemistry and Computer Science, Higher Education Opportunity Program, Barnard College

EXTRACURRICULAR ACTIVITIES

2000-2005 Volunteer, Child Life Program, Memorial Sloan-Kettering Cancer Center, New York, NY

2001	Volunteer, New York Cares 9/11 Relief Efforts
2000	Intern, Child Services**,** Great Ormond Street Hospital for Children, London, UK
1992-1998	Second-degree black belt, Shaolin-Kempo Karate. Tournament awards in *kata* and weapons.

INTERESTS

Surgical critical care
Acute care surgery
Surgical education
Resuscitation strategies and the systemic inflammatory response
Ethics in end-of-life care
Incorporating evidenced-base strategies into medical school and residency curricula
Writing/ memoir