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EDUCATION AND TRAINING

Degrees:

7/1999 - 5/2004	Wake Forest University, Winston-Salem, NC M.D.
8/2002 – 6/2003	Harvard School of Public Health, Boston, MA M.P.H. (concentration in International Health)
8/1994 - 5/1998	University of North Carolina at Chapel Hill, Chapel Hill, NC B.S. (cum laude) (Biology major)

Postgraduate Training:

7/2011 - 6/2013	University of Michigan, Cardiothoracic Surgery (Thoracic track)
6/2004 - 6/2011	University of Chicago Hospitals, General Surgery Residency

PROFESSIONAL EXPERIENCE

7/1/2015 - present	Co-Director, UNC Lung Cancer Screening Clinic, UNC Hospitals (with M. Patricia Rivera, M.D., and Katherine Birchard, M.D.)
8/1/2013 - present	Assistant Professor of Surgery, Division of Cardiothoracic Surgery, University of North Carolina at Chapel Hill, Chapel Hill, NC
6/1998 - 6/1999	Lineberger Cancer Center, University of North Carolina at Chapel Hill

HONORS & AWARDS

- 6/2014 - 6/2016 Outstanding Service Award given to UNC Thoracic Surgery in years 2014, 2015, 2016, while Dr. Long has been a faculty member. UNC Surgery interns vote each year to choose the winner of the award, which is the service that best meets the following criteria: teaching by faculty, clinical opportunities, technical experience.
- 6/2011 Trauma Resident of the Year, Cook County Trauma Unit, Chicago
- 2/2010 Elected to Alpha Omega Alpha Honor Medical Society, University of Chicago Pritzker School of Medicine
- 5/2008 Winner, Best Poster Presentation
Surgical Infection Society Annual Meeting
Hilton Head, SC
- 2/2008 Winner, Most Outstanding Postgraduate Oral Presentation
15th Annual Charles B. Huggins Research Symposium
Dept. of Surgery, University of Chicago
- 10/2007 Poster of Exceptional Merit
American College of Surgeons 93rd Annual Clinical Congress
New Orleans, LA
- 5/2007 Winner, Most Outstanding Postgraduate Oral Presentation
14th Annual Charles B. Huggins Research Symposium
Dept. of Surgery, University of Chicago
- 5/2003 Special Recognition in annual Harvard School of Public Health and Human Rights Essay Contest

LEADERSHIP EXPERIENCE

- 2010-2011 Administrative Chief Resident, University of Chicago Dept. of Surgery
- 2001-2002 Class President, Wake Forest University School of Medicine
- 1999-2001 Class Vice President, Wake Forest University School of Medicine
- 1996-1998 President, UNC-Chapel Hill men's club soccer team

INTERNATIONAL EXPERIENCE

- November – December 2008 International Surgical Rotation
Division of Surgical Oncology
Hospital de Universidad Catolico
Santiago, Chile

January-March 2003

Winter Session Field Experience in Health and Human Rights, Harvard School of Public Health
“Spread of HIV/AIDS in the Migrant Worker Population in Rural Rajasthan” Rajasthan, India

2001

Attended 14th Annual IHMEC conference
Havana, Cuba

June-August 1997

Volunteer with Amigos de las Americas
Paraguay

BIBLIOGRAPHY

Book Chapters

1. **Long J**, Deatrck KB, Chang AC. Thoracic wall, pleura, mediastinum, and lung. IN: Doherty GM, ed., *Surgery: Current Diagnosis and Treatment*. McGraw-Hill Education, New York, 2015, pp. 331-388.
2. **Long J**, Ferguson MK. Esophageal dilation. IN: Franco KL, Thourani VH, eds: *Cardiothoracic Surgery Review*. Wolters Kluwer/Lippincott Williams & Wilkins, Philadelphia, 2012, pp1380-3.
3. **Long J**, Ferguson MK. Management of esophageal anastomotic leaks. IN: Franco KL, Thourani VH, eds: *Cardiothoracic Surgery Review*. Wolters Kluwer/Lippincott Williams & Wilkins, Philadelphia, 2012, pp1376-9.
4. **Long J**, Angelos P. Complications in thyroid surgery. IN: Sippel R, Chen H, eds. *Handbook of Endocrine Surgery* 2011.

Refereed Articles

1. **Long J**, Russo MJ, Muller C, Vigneswaran WT. Surgical treatment of pulmonary hypertension: Lung transplantation. *Pulm Circ* 2011 Jul-Sep;1(3):327-33. doi: 10.4103/2045-8932.87297. PMID: 22140622
2. Valuckaite V, Zaborina O, **Long J**, Hauer-Jensen M, Wang J, Holbrook C, Zaborin A, Drabik K, Katdare M, Mauceri H, Weichselbaum R, Firestone MA, Lee KY, Chang EB, Matthews JB, Alverdy JC. Oral PEG 15-20 protects the intestine against radiation: role of lipid rafts. *Am J Physiol Gastrointest Liver Physiol*. 2009 Dec Dec;297(6): 1041-52. doi: 10.1152/ajpgi.00328.2009. Epub 2009 Oct 15. PMID: 19833862
3. Zaborin A, Romanowski K, Gerdes S, Holbrook C, Lepine F, **Long J**, Poroyko V, Diggle SP, Wilke A, Righetti K, Morozova I, Babrowski T, Liu DC, Zaborina O, Alverdy JC. Red death in *Caenorhabditis elegans* caused by *Pseudomonas aeruginosa* PAO1. *Proc Natl Acad Sci USA*. 2009 Apr 14;106(15):6327-32. doi: 10.1073/pnas.0813199. Epub 2009 Apr 6. PMID: 19369215
4. **Long J**, Zaborina O, Holbrook C, Zaborin A, Alverdy J. Depletion of intestinal phosphate after operative injury activates the virulence of *P. aeruginosa* causing lethal gut-derived sepsis. *Surgery* 2008 Aug;144(2):189-97. doi: 10.1016/j.surg.2008.03.045. PMID 18656625
5. Zaborina O, Holbrook C, Chen Y, **Long J**, Zaborin A, Morozova I, Fernandez H, Wang Y, Turner JR, Alverdy JC. Structure-function aspects of PstS in multi-drug-resistant *Pseudomonas aeruginosa*. *PLoS Pathog*. 2008 Feb 8;4(2):e43. doi: 10.1371/journal.ppat.0040043. PMID: 18282104
6. Stabinski L, Pelley K, Jacob ST, **Long J**, Leaning J. Reframing HIV and AIDS. *BMJ* 2003 Nov 8;327(7423):1101-3. Review. No abstract available. PMID 14604936

Published Abstracts

1. Egan TM, Blackwell J, Gazda S, Yuan D, Birchard K, **Long J**, Haithcock B, Thys C. Ex-vivo lung perfusion and computerised tomography scan to assess lungs recovered from uncontrolled donation after circulatory determination of death donors. *Eur J*

- Cardiothorac Surg 2015 (Oct); 21 (Suppl 1). (Presented Oct. 6, 2015, at European Association of Cardio-Thoracic Surgery, 2015 annual meeting, Amsterdam, Netherlands.)
2. Egan TM, Blackwell J, Gazda S, Forrest L, Haithcock B, **Long J**, Birchard K, Reddy S, Casey N. Assessment of Human Lungs Recovered from uncontrolled Donation after Circulatory Determination of Death (uDCDD) Donors by Ex-vivo Lung Perfusion (EVLP) and CT scan. J Heart Lung Transplant 2015; 34 (4S):S247. (International Society for Heart and Lung Transplantation, 2015 meeting and scientific sessions, April 15-18, 2015, Nice, France.)
 3. Egan T, Haithcock B, **Long J**, Noone P, Blackwell J, Forrest L, Gazda S, Reddy S, Davis R, Birchard K, Stewart P. Preliminary Results of a Phase II Trial Comparing Outcomes of Patients Transplanted with Lungs from Uncontrolled Donation After Cardiac Death Donors (uDCDDs) Assessed with Ex-vivo Lung Perfusion (EVLP) to Lungs from Conventional Brain-Dead Donors. J Heart Lung Transplant 2014;33(4):S17. (International Society for Heart and Lung Transplantation, San Diego, CA, April 11, 2014.)

Unpublished Abstracts

1. Egan T, Blackwell J, Birchard K, Haithcock B, **Long J**, Gazda S, Casey N, Thys C. Assessment of lungs for transplant recovered from uncontrolled Donation after Circulatory Determination of Death donors (uDCDDs). (Oral presentation) (Presented June 8, 2016, at 59th Annual Aspen Lung Conference, Aspen, CO)
2. Egan TM, Haithcock B, **Long J**, Birchard K, Lobo J, Stewart P, Blackwell J, Yuan D, Thys C, Karb D, Miller S, Hartwig M. Interim results of a Phase II clinical trial comparing outcomes of recipients of lungs recovered from uncontrolled donation after circulatory determination of death donors (uDCDDs) assessed by ex-vivo lung perfusion (EVLP) and CT scan to outcomes of recipients of lungs from brain-dead donors (BDDs). (Poster) International Society of Heart and Lung Transplantation, Washington, D.C., April 29, 2016.
3. Egan TM, Blackwell J, Gazda S, Yuan D, Birchard K, **Long J**, Haithcock B, Thys C. Ex-vivo lung perfusion and computerised tomography scan to assess lungs recovered from uncontrolled donation after circulatory determination of death donors. (Presented Oct. 6, 2015, at European Association of Cardio-Thoracic Surgery, 2015 annual meeting, Amsterdam, Netherlands.)

TEACHING

Presentations

1. “High Molecular Weight Polyethylene Glycol Prevents Epithelial Cell Apoptosis, Shields against Bacterial Invasion, and Protects Mice from Mortality Following Abdominal Radiation and Exposure to *P. aeruginosa*” – *oral presentation, Plenary Session*
Surgical Infection Society 28th Annual Meeting
May 7, 2008
Hilton Head, SC
2. “Surgical Injury Stimulates *P. aeruginosa* to Degrade the Intestinal Mucus Gel Layer” – *poster presentation*
Surgical Infection Society 28th Annual Meeting
May 7, 2008
Hilton Head, SC
3. “Intestinal *P. aeruginosa* Expresses a Mucus Degrading Phenotype in Response to Surgical Injury” – *oral presentation*
15th Annual Charles B. Huggins Research Symposium
Dept. of Surgery, University of Chicago
February 23, 2008
4. “Low Intestinal Phosphate Following Surgical Injury Directly Activates the Virulence of *Pseudomonas aeruginosa* Causing Lethal Gut-Derived Sepsis” – *oral presentation*
Society of University Surgeons Annual Meeting
February 13, 2008
Huntington Beach, CA
5. “Oral Polyethylene Glycol Reduces Radiation-Induced Mortality in Mice by Preserving Intestinal Epithelial Cell Integrity to *Pseudomonas aeruginosa*” – *oral presentation*
14th Annual Charles B. Huggins Research Symposium
Dept. of Surgery, University of Chicago
May 5, 2007

Mentor, Preceptor Responsibilities

Oct. 2014-present UNC School of Medicine Surgery Clerkship Preceptor. Work with a group of 3 to 4 medical students every 8 weeks.

GRANT SUPPORT

- 1UM1HL113115-01A1 (Egan, PI) 9/1/2013-9/30/2016 5% (0.6 calendar months)
 NIH/NHLBI \$3,166,304 (total direct costs); \$632,242 (Year 1 direct costs)
More and better lungs: Ex-vivo perfusion of lungs from non-heart-beating donors
 This project seeks to show that lungs may be suitable for transplant after they are retrieved from people who died suddenly outside of the hospital or in an emergency room. Lungs will be removed after death and assessed for transplant suitability by ex-vivo perfusion. Suitable lungs will be transplanted to consented patients at UNC and Duke under an FDA and IRB approved protocol.
 Role: Co-Investigator
- (DiMeo, Haithcock, Long, PIs) 7/2015-6/2016 No salary support
 UNC Lineberger Comprehensive Cancer Center \$10,000
Collaboration to use a UNC surgery simulation laboratory to develop ideas for innovative medical devices
 Won award in Innovation Competition sponsored by Lineberger Center – will work with Benjamin Haithcock, MD, UNC Division of Cardiothoracic Surgery and Andrew DiMeo of the UNC/NC State Joint Department of Biomedical Engineering.
 Role: Investigator
- R21-CA175983 (Henderson L, PI) 1/1/2014-12/31/2015 No salary support
 National Institutes of Health/National Cancer Institute \$108,750
Developing a lung cancer screening registry in a state with a high smoking rate
 Goal: The long-term goal is to examine the delivery and quality of lung cancer screening across the U.S. by creating a prospective population-based registry that captures patient, radiologist, and outcome information on the use of low dose computed tomography (LDCT) for screening. The objective of this application is to pilot-test a population-based lung cancer screening registry and determine the extent to which lung cancer screening with LDCT has diffused across the state.
 Role: Consultant
- Member of Lung Cancer Screening Advisory Committee, Lung Registry R21 Study, UNC
- 2006 -2008 Recipient of NIH Loan Repayment Program
 “Effect of Intestinal *Pseudomonas* in the Critically Ill Patient”
 P.I.: Dr. John Alverdy
 Research Fellow; \$70,000
 University of Chicago Department of General Surgery
- 2000 NIH Summer Research Training Fellowship: “Increased Efficacy of Radiation Against *in vitro* Human Gliomas Following Antagonism of Nuclear Factor Kappa B”
 P.I.: Dr. Matthew Ewend
 Research Fellow; \$5,000
 University of North Carolina Department of Surgery, Division of Neurosurgery

PROFESSIONAL SERVICE

2014-present	Co-Director, UNC Lung Cancer Screening Clinic, UNC Hospitals
Feb. 2015-present	ICU Advisory Committee, UNC Hospitals, Chapel Hill, NC
2011	ACGME Site review committee, University of Chicago Dept. of Surgery
2011	Led committee to redesign call schedule to comply with new ACGME work hours
2005	ACGME Site review committee, University of Chicago Dept. of Surgery

PROFESSIONAL MEMBERSHIPS

2011 - Present	Society of Thoracic Surgeons, Candidate member
2/2010 - Present	American Osteopathic Association, Elected member