

## **MICHAEL A. ROSENBAUM**

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### **TRAINING**

#### **Cleveland Clinic;** Cleveland, Ohio

Fellow; Department of Vascular Surgery; July 2012 – June 2014

#### **University Hospitals of Cleveland/Case Western Reserve University;** Cleveland, Ohio

General Surgery Resident; Integrated Surgery Program; July 2005 – June 2012

Administrative Chief Resident; July 2011 – June 2012

#### **Cleveland Clinic;** Cleveland, Ohio

Dudley P. Allen Surgery Research Fellowship; July 2007 – June 2009

### **EDUCATION**

#### **Case Western Reserve University School of Medicine;** Cleveland, Ohio

Doctor of Medicine; 2005

Concentrations: Surgery, Emergency Medicine, Critical Care, and Trauma

#### **Tulane University;** New Orleans, Louisiana

Bachelor of Science in Electrical Engineering; Minor in Mathematics; 1997

Summa Cum Laude with Departmental Honors

### **WORK/TEACHING EXPERIENCE**

#### **Department of Veterans' Affairs;** Louis Stokes VA Medical Center, Cleveland, Ohio

Staff Vascular Surgeon, Surgical Service; September 2014 – Present

Principal Investigator, Research Service; January 2017- Present

#### **Case Western Reserve University School of Medicine;** Cleveland, Ohio

Assistant Professor of Surgery; September 2014 – Present

#### **Cleveland Clinic Lerner Research Institute;** Department of Biomedical Engineering

Adjunct Staff; March 2015 - Present

#### **United States Air Force;** Hanscom Air Force Base, Boston, Massachusetts

Captain; Project Manager/Analyst; HQ Electronic Systems Center; May 1997 – August 2001

## **CERTIFICATION/LICENSURE**

American Board of Surgery – General Surgery; January 2013 – December 2023  
American Board of Surgery – Vascular Surgery; May 2015 – December 2025  
State Medical Board of Ohio; April 2007 – Present  
Registered Physician in Vascular Interpretation; 2014-2023

## **RESEARCH GRANTS**

### **NIH/NHLBI 1F32HL090205 Rosenbaum (PI):**

“Effect of Oxidized Lipids on Endothelial Migration and Vascular Graft Healing.” National Institutes of Health; National Heart, Lung, and Blood Institute; Sep 2007 – Aug 2009  
Total Amount: \$100,924

### **IK2BX003628 Rosenbaum (PI):**

“Endothelial Healing is Inhibited by PI3 Kinase Induced Activation of TRPC6.” Department of Veterans Affairs Biomedical Laboratory Research and Development Service; Jan 2017 – Dec 2021.  
Total Amount: \$1,755,411

## **RESEARCH EXPERIENCE**

### **Louis Stokes Cleveland Veterans Affairs Medical Center**

Principal Investigator, Research Service; January 2017 – Present

Vascular biology research investigating the role of calcium channel activation by lipid oxidation products in the inhibition of endothelial cell migration after arterial injury and during graft healing.

Co-Investigator, Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial (CREST-2)

Site Principal Investigator: Gilles Pinault, MD

Multi-Center, randomized, observer-blinded clinical trial to assess treatment differences in patients with asymptomatic carotid stenosis between intensive medical management alone compared to carotid endarterectomy plus intensive medical management.

### **Cleveland Clinic**

Dudley P. Allen Surgical Research Scholar/Post-Doctoral Fellow; July 2007 – June 2009

Principal Investigator: Linda Graham, M.D.; Department Biomedical Engineering  
Examined the role of lipid oxidation products and oxidative stress on endothelial cell migration after arterial injury and during graft healing.

## **PUBLICATIONS**

**Rosenbaum MA**, Haridas M, McHenry CR. “Life threatening neck hematoma complicating thyroid and parathyroid surgery.” *Am J Surg* 2008;195:339-343.

**Rosenbaum MA**, McHenry CR. “Contemporary management of papillary thyroid carcinoma of the thyroid gland.” *Expert Rev Anticancer Ther* 2009;9(3):317-329.

**Rosenbaum MA**, McHenry CR. “Central neck dissection for papillary thyroid cancer.” *Arch Otolaryngol Head Neck Surg* 2009;135(11):1092-1097.

- Rosenbaum MA**, Miyazaki K, Colles SM, Graham LM. “Antioxidant therapy reverses impaired graft healing in hypercholesterolemic rabbits.” *J Vasc Surg* 2010;51:184-193.
- Rosenbaum MA**, Miyazaki K, Graham LM. “Hypercholesterolemia and oxidative stress inhibit endothelial cell healing after arterial injury.” *J Vasc Surg* 2012;55:489-496.
- Rosenbaum MA**, Chaudhuri P, Graham LM. “Hypercholesterolemia Inhibits Re-endothelialization of arterial injuries by TRPC channel activation.” *J Vasc Surg* 2015 Oct; 62(4):1040-1047.
- Rosenbaum MA**, Chaudhuri P, Abelson B, Cross BN, Graham LM. “Apolipoprotein A-I mimetic peptide reverses impaired arterial healing after injury by reducing oxidative stress.” *Atherosclerosis* 2015 Aug;241(2): 709-715.
- Chaudhuri P, **Rosenbaum MA**, Sinharoy P, Damron DS, Birnbaumer L, Graham LM. “Membrane Translocation of Transient Receptor Potential Channels and Endothelial Cell Migration are Regulated by Calmodulin Phosphorylation.” *Proc Natl Acad Sci U S A*. 2016 Feb 23; 113(8):2110-2115.
- Chaudhuri P, **Rosenbaum MA**, Birnbaumer L, Graham LM. “Integration of TRPC6 and NADPH oxidase activation in lysophosphatidylcholine-induced TRPC5 externalization.” *Am J Physiol Cell Physiol*. 2017 Nov 1; 313(5):C541-C555.

## **PRESENTATIONS**

- “Hypercholesterolemia inhibits reendothelialization of arterial injuries by TRPC channel activation.” Louis Stokes Cleveland VA Medical Center Advanced Practice Council; May 2016.
- “Calcium channel deficiency reversed impaired arterial healing due to hypercholesterolemia.” Cleveland Vascular Society; Cleveland, OH; May 2011.
- “Antioxidant therapy reverses impaired graft healing in hypercholesterolemic rabbits.” Society for Vascular Surgery Annual Meeting; Denver, CO; June 2009.
- “Central neck dissection for papillary thyroid cancer.” American Head and Neck Society Annual Meeting; Phoenix, AZ; May 2009.
- “High density lipoprotein reverses impaired arterial healing due to hypercholesterolemia.” Cleveland Vascular Society; Cleveland, OH; May 2009.
- “Anti-oxidants reverse impaired graft healing due to hypercholesterolemia.” Cleveland Vascular Society; Cleveland, OH; March 2008.
- “Life threatening neck hematoma complicating thyroid and parathyroid surgery.” Midwest Surgical Association Meeting; Nemaacolin, PA; August 2007.

## **AWARDS AND HONORS**

- Lifeline Resident Research Award; American Vascular Association; 2009
- Ruth L. Kirschstein National Research Service Award Individual Fellowship; National Institutes of Health; 2007 - 2009
- Dudley P. Allen Research Scholar; 2007 - 2009
- Cleveland Vascular Society Fellows and Residents Scientific Competition; 2008 & 2011 (1<sup>ST</sup> Place), 2009 (3<sup>rd</sup> Place)
- U.S. Air Force Commendation Medal; 2001
- U.S. Air Force Operations Research Society Analyst of the Year Award Finalist; 1998

U.S. Air Force ESC/DI Company Grade Officer of the Year; 1998

**PROFESSIONAL MEMBERSHIPS**

Society for Vascular Surgery, Candidate Member: 2010 - Present

American College of Surgeons, Associate Fellow: 2005 - Present

American Medical Association, Member: 2001 – Present

Society for Diagnostic Medical Sonography, Member: 2015 – Present