

# CURRICULUM VITAE

## Jason Rhede Cook MD, PhD, FACS, RPVI

### CAMPUS ADDRESS:

Department of Surgery – Vascular Surgery  
982500 Nebraska Medical Center  
Omaha, NE 68198-2500  
Phone: (402) 559-9549  
Fax: (402) 559-8985

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### EDUCATION

Integrated Vascular Surgery Residency Barnes Jewish Hospital – Washington University Division of Vascular Surgery Department of General Surgery Saint Louis, MO	2015-2020
M.D. Icahn School of Medicine at Mount Sinai New York, NY	2007-2015
Ph.D. in Biomedical Sciences Dissertation Title: “Molecular pathophysiology of cardiovascular manifestations in the Marfan syndrome” Department of Pharmacology and Systems Biology Icahn School of Medicine at Mount Sinai New York, NY	2009-2013
B.A. in Biology with Honors and Environmental Studies Concentration Grinnell College Grinnell, IA	2003-2007

### CURRENT POSITION

Assistant Professor Division of Vascular Surgery, Department of Surgery University of Nebraska Medical Center 982500 Nebraska Medical Center – UT1-6156 Omaha, NE 68198	2020-pr
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### PREVIOUS POSITIONS

Resident Physician Integrated Vascular Surgery Residency Program Division of Vascular Surgery Department of General Surgery 660 S. Euclid Ave., Campus Box 8109	2015-2020
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Graduate Student Department of Pharmacology & Systems Therapeutics Advisor: Dr. F. Ramirez Icahn School of Medicine at Mount Sinai New York, NY	2009-2013
Head Physiology Teaching Assistant for the Medical School Physiology Course. Advisor: Dr. B. Hanss Icahn School of Medicine at Mount Sinai New York, NY	2009-2013
Summer Undergraduate Research Program Advisor: Dr. D. Logothetis Icahn School of Medicine at Mount Sinai New York, NY	2006
Undergraduate Teaching Assistant for eight biology courses Advisor: Drs. K. Jacobson, V. Pratis, C. Sullivan, and R. Cabaza Grinnell College Grinnell, IA	2004-2007

### **MEDICAL LICENSE**

Iowa Medical License - MD-48315	2021-pr
Nebraska Medical License – 32590	2020-pr
Missouri Medical License - 2015017604	2015- 2020
DEA License	2020-pr

### **CERTIFICATIONS**

Registered Physician in Vascular Interpretation (RPVI)	08/2024
ACLS	11/2023
BLS	11/2023
ATLS	06/2015
Step 1/2/3: Pass	
Step 2CS: Pass	

### **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

American College of Surgeons	2021-pr
Vascular and Endovascular Surgical Society	2021-pr
Midwestern Vascular Surgical Society	2015-pr
Alpha Omega Alpha (Member of AOA)	2014
Society for Vascular Surgery	2014-pr
National Marfan Foundation	2011-2015
American Medical Student Association	2007-2015
AAAS (Student Member)	2007-2015
American Physiological Society (Student Member)	2005-2015

**HONORS AND AWARDS**

Elected a member of Mount Sinai School of Medicine's Lambda Chapter of Alpha Omega Alpha Honor Society	2014
Allan D. Callow MD/PhD Young Investigator Award International Society of Applied Cardiovascular Biology Cleveland, OH.	2014
Graduate Student Travel Award to attend American Society of Human Genetics, San Francisco, CA Icahn School of Medicine at Mount Sinai New York, NY	2012
Runner-up, Best Oral Presentation. Systems Biology & Disease Therapeutics, Icahn School of Medicine at Mount Sinai New York, NY	2012
Runner-up, Best Oral Presentation. Systems Biology & Disease Therapeutics, Icahn School of Medicine at Mount Sinai New York, NY	2012
Best Poster Award, Department of Pharmacology & Systems Therapeutics, Icahn School of Medicine at Mount Sinai New York, NY	2012
MSTP Student Oral Presentation at the 17th Annual Medical Student Research Day Icahn School of Medicine at Mount Sinai New York, NY	2012
Graduate Student Travel Award to attend Translational Opportunities for the Heritable Disorders of the Connective Tissue, Portland, OR Icahn School of Medicine at Mount Sinai New York, NY	2011
Outstanding Student Teaching in a Medical School Course Icahn School of Medicine at Mount Sinai New York, NY	2011
Graduate Student Travel Award to attend Experimental Biology Meeting, Washington, DC Icahn School of Medicine at Mount Sinai New York, NY	2011
Graduate Student Travel Award to attend International Marfan Symposium, Warrenton, VA Icahn School of Medicine at Mount Sinai New York, NY	2010
Graduate Student Outstanding Teaching Award Icahn School of Medicine at Mount Sinai New York, NY	2010

National Institute of Health Heart, Lung, and Blood & General Medical Sciences Predoctoral Fellowship	2010-2013
Rudin Foundation Scholar Icahn School of Medicine at Mount Sinai New York, NY	2009-2010
Bachelor of Arts in Biology Awarded with Honors Grinnell College Grinnell, IA	2007
Bachelor of Arts in Biology Awarded with Honors Grinnell College Grinnell, IA	2007

## RESEARCH FUNDING

### Completed Research Support:

Junior Faculty Developmental Award University of Nebraska Medical Center College of Medicine's Physician-Scientist Training Program Role: Principal Investigator Title: "Role of inflammation and endothelial cell dysfunction in aortic aneurysm progression in Marfan Syndrome." \$200,000 over 2 years	9/1/2020- 6/30/2022
Great Plains IDeA-Centre Pilot Grant Center for Heart & Vascular Research University of Nebraska Medical Center Role: Principal Investigator Title: "Mechanoregulation of cardiovascular physiology in Marfan Syndrome" \$30,000	7/1/2021- 6/30/2022
T32GM007280-34S1 Individual Predoctoral Grant awarded through NHLBI/NIGMS provided as a supplement to the Icahn School of Medicine Medical Scientist Training Program Grant Icahn School of Medicine at Mount Sinai Role: Graduate Student	7/1/2010- 6/30/2013
T32GM062754 Integrated Pharmacological Sciences Training Program Icahn School of Medicine at Mount Sinai Role: Graduate Student	7/1/2009- 6/30/2010

T32GM007280

Icahn School of Medicine Medical Scientist Training Program Grant

Icahn School of Medicine at Mount Sinai

Role: Graduate Student

7/1/2008-

6/30/2009

**PEER-REVIEWED RESEARCH PUBLICATIONS**

1. Jespersen, K., C. Li, R. Batra, C. A. Stephenson, P. Harding, K. Sestak, R. T. Foley, H. Greene, T. Meisinger, **J.R. Cook**, B. Timothy Baxter, W. Xiong. 2022. Impact of Notch3 Activation on Aortic Aneurysm Development in Marfan Syndrome. *J. Immunol Res.* Feb 15;2022:7538649 doi: 10.1155/2022/7538649. PMID: 35211631; PMCID: PMC8863478.
2. Galatioto, Josephine., C. I. Caescu, J. Hansen, **J. R. Cook**, I. Miramontes, R. Iyengar, F. Ramirez. 2018. Cell type-specific contributions of the Ang II type 1a receptor to aorta homeostasis and aneurysmal disease. *Arteriosclerosis, Thrombosis, and Vascular Biology.* 38: 1-4. [PMID: 29371244] [PMCID: PMC5823778]
3. **Cook, J.R.**, N.P. Clayton, L. Carta, J. Galatioto, E. Chiu, S. Smaldone. C.A. Nelson, S. H. Cheng, B.M. Wentworth, F. Ramirez. 2015. Dimorphic effects of TGF $\beta$  signaling during aortic aneurysm progression in mice suggest a combinatorial therapy for Marfan syndrome. *Arteriosclerosis, Thrombosis, and Vascular Biology.* 35: 911-7. [PMID: 25614286] [PMCID: PMC4376614]
4. **Cook, J.R.**, L. Carta, L. Benard, E.R. Chemaly, E. Chiu, S.R. Rao, T.G. Hampton, P. Yurchenco, GenTac Registry Consortium, K.D. Costa, R.J. Hajjar, F. Ramirez. 2014. Abnormal muscle mechanosignaling causes cardiomyopathy in mice with Marfan syndrome. *Journal of Clinical Investigation.* 124: 1329-1339 [PMID: 24531548] [PMCID: PMC3934180]
5. **Cook, J.R.\***, S. Smaldone\*, C. Cozzolino, M. del Solar, S. Lee-Arteaga, H. Nistala, and F. Ramirez. 2011. Generation of Fbn1 Conditional Null Mice Implicates Extracellular Microfibrils in Osteoprogenitor Recruitment. *Genesis* [PMID: 22374917] [PMCID: PMC3405165] \*Authors contributed equally
6. Nistala, H.\*, S. Lee-Arteaga\*, L. Carta\*, **J.R. Cook\***, S. Smaldone, G. Siciliano, A. Rifkin, H.C. Dietz, D.B. Rifkin, and F. Ramirez. 2010. Differential effects of alendronate and losartan therapy on osteopenia and aortic aneurysm in mice with severe Marfan syndrome. *Human Molecular Genetics.* 19: 4790-4798. [PMID: 20871099] [PMCID: PMC2989889] \*Authors contributed equally

**REVIEWS, CASE REPORTS, AND TEXTBOOK CHAPTERS**

1. Jim J, J. Maijub, **J.R. Cook**. 2023. Acute dissection into a large abdominal aortic aneurysm in a patient with Marfan syndrome. *Vascular.* Apr;31(2):279-283. doi: 10.1177/170853812111063290. Epub 2022 Apr 9. [PMID: 35400268].
2. **Cook J.R.**, R.W. Thompson. 2021. Evaluation and Management of Venous Thoracic Outlet Syndrome. *Thoracic Surgery Clinics: Thoracic Outlet Syndrome.* Thorac Surg Clin. 31:27-45.
3. **Cook J.R.**, T.J. Desmarais, J. Jim. 2020. Multi-stage open surgical and endovascular

treatment of progressive aortic degeneration in a patient with Marfan syndrome. *Vascular*. September 2020 [PMID: 32883184]

4. **Cook J.R.**, J. W. Ohman, L. A. Sanchez. 2019. Chapter 38: Thoracoabdominal Vascular Disease. *Washington Manual of Surgery*. 8<sup>th</sup> Edition.
5. Desai, K., **J.R. Cook**, E. Brownie, M. Zayed. 2018. Tulip piercing the aorta: a rare case of IVC filter aortic perforation and obstruction. *J. Surg Case Rep*. 10: 1-3. [PMID: 30386545] [PMCID: PMC6204720]
6. **Cook J.R.**, P. Geraghty. 2017. How You'll Intervene on Legs in Three to Five Years: Bioresorbable Scaffolds and Next-Generation Drug Delivery. *Current Vascular Surgery Northwestern Vascular Symposium*. Ed: M Eskandari. PMPH-USA Publishing. P217-226.
7. Galatioto, J., E. Chiu, **J.R. Cook**. 2014. Marfan syndrome: exploring new options in management. *Drugs of the Future*. **39**:479-485.
8. **Cook, J.R.**, L. Carta, J. Galatioto, F. Ramirez. 2014. Cardiovascular manifestations in Marfan syndrome and related diseases; multiple genes causing similar phenotypes. *Clinical Genetics*. [PMID: 24867163]
9. **Cook, J.R.**, F. Ramirez. 2014. Clinical, diagnostic, and therapeutic aspects of the Marfan syndrome. *Adv. Exp. Med. Biol*. **802**: 77-94. [PMID: 24443022]
10. **Cook, J.R.**, H. Nistala, and F. Ramirez. 2010. Drug-based therapies for vascular disease in Marfan Syndrome; from mouse models to human patients. *Mount Sinai Journal of Medicine*. **77**: 366-373. [PMID: 20687182] [PMCID: PMC2917828]

#### **ADDITIONAL SCHOLARLY ACTIVITY**

1. **Cook, J.R.**, Item writer for the TWIS – Vascular Surgery Vascular – Renal artery Aneurysm Repair – Open and Endovascular, Part 2 of 2 Quiz. The SCORE Portal. <http://www.surgicalcore.org>. September 2020.
2. **Cook, J.R.**, Item writer for the TWIS – Vascular Surgery Vascular – Percutaneous Arterial Access Complications, Part 2 of 2 Quiz. The SCORE Portal. <http://www.surgicalcore.org>. August 2020.
3. **Cook, J.R.**, B. Downing, J. Jim., Writer for VSCORE – Anastomotic Aneurysms. The SCORE Portal. <http://www.surgicalcore.org>. March 2019.
4. Downing, B., **J.R. Cook**, J. Jim. Writer for VSCORE – Upper Extremity Occlusive Disease. The SCORE Portal. <http://www.surgicalcore.org>. March 2019.

#### **PRESENTATIONS**

1. General Surgery Resident Physician Teaching Seminar: Visceral Ischemia Part 2. 2021. University of Nebraska Medical Center. Omaha, NE.
2. Invited Speaker Heart and Vascular Nursing Lunch and Learn. Heart and Vascular Center. University of Nebraska Medical Center. Percutaneous Treatment for Venous Thromboembolism. 2021. Omaha, NE.

3. Invited Grand Rounds Speaker. University of Nebraska Medical Center. Department of Family Medicine. Percutaneous Thrombectomy for Venous Thromboembolism. August 2021. Omaha, NE.
4. Invited Speaker. Department of Cellular and Integrative Physiology, University of Nebraska Medical Center. "The Complex Role of the Fibrillin-1 Microfibrils in Cardiovascular Physiology in the Marfan Syndrome: From Bench to Bedside and Back Again." February 2021. Omaha, NE
5. **Cook, J.R.** 2021. Fibrillin-1 Microfibrils in Cardiovascular Physiology in The Marfan Syndrome; from bench to bedside and back again. Cellular and Integrated Physiology. University of Nebraska Medical Center.
6. **Cook, J.R.**, M.A. Henn, T. Ramayya, R. Handa, P. Kachroo, A.C. Braverman, J.W. Ohman. 2019. Gender-related Differences in Aortic Dissection in Marfan Syndrome. *Midwestern Vascular Annual Meeting 5<sup>th</sup> Annual Meeting*. Chicago, IL.
7. **Cook, J.R.** L. A. Sanchez. 2019. EVAR Outcomes – Case Presentation. Critical Issues America in Aortic Endografting. Coral Gables, FL.
8. **Cook, J.R.**, J.R. Hornick, L. Sanchez, M.A. Zayed. 2017. VH03 Lower Extremity Adductorplasty During Superficial Femoral Artery Stenting. Vascular Annual Meeting 2017. San Diego, CA.
9. **Cook J.R.**, N. Clayton, L. Carta, J. Galatioto, E. Chiu, B. M. Wentworth, F. Ramirez. 2014. *Dimorphic effects of TGFbeta signaling during aortic aneurysm progression in mice with Marfan syndrome*. Cardiovascular extracellular matrix in health and disease; Baeza, Spain.
10. **Cook, J.R.**, L. Carta, L. Benard, E.R. Chemaly, E. Chiu, S.K. Rao, T. Hampton, P. Yurchenco, GenTAC Registry Consortium, K.D. Costa, R.J. Hajjar, F. Ramirez. 2014. *Characterization of dilated cardiomyopathy in mice with Marfan syndrome*. International Society of Applied Cardiovascular Biology. Cleveland, OH.
11. **Cook, J.R.**, L. Carta, L. Benard, E.R. Chemaly, E. Chiu, T. Hampton, N. Clayton, C. Nelson, B. Wentworth, R.J. Hajjar, F. Ramirez. 2012. *Fibrillin-1 deficiency in cardiac basement membrane zone causes myopathy in Marfan Syndrome*. American Society of Matrix Biology. San Diego, CA.
12. F. Ramirez, L. Carta, M. del Solar, M. Lindsay, H. Dietz, **J.R. Cook**. 2012. *Genetic Dissection of Aortic Disease in the Marfan Syndrome*. American Society of Human Genetics. San Francisco, CA. \*Presented by **J.R. Cook**
13. **Cook, J.R.**, F. Ramirez 2012. *Molecules, Mice, and Men: Cardiovascular disease in Marfan Syndrome*. Grinnell College, Grinnell, IA.
14. **Cook, J.R.**, F. Ramirez. 2012. *Genetic Dissection of the cardiovascular disease in mice with severe Marfan Syndrome*. 7<sup>th</sup> International Elastin Meeting. Ghent, Belgium.
15. **Cook, J.R.**, L. Carta, M. del Solar, M. Lindsay, H. Dietz, F. Ramirez. 2012. *Genetic Dissection of Anatomical Compartments & Embryonic Lineages in Vascular Pathology in MFS*. Genetically Triggered Thoracic Aortic Aneurysms and Cardiovascular Conditions Thoracic Aortic Disease Summit. Chicago, IL.

16. **Cook, J.R.**, F. Ramirez. 2012. *Marfan Syndrome*. Summer Undergraduate Research Seminar Series. Icahn School of Medicine at Mount Sinai, New York, NY.
17. **Cook, J.R.**, F. Ramirez. 2012. *Cell Specific Contributions to the Genesis of Thoracic Aortic Aneurysms in Marfan Syndrome: Implications for Clinical Management*. Systems Biology & Disease Therapeutics Symposium. Icahn School of Medicine at Mount Sinai, New York, NY.
18. **Cook, J.R.**, F. Ramirez. 2012. *Druggable Targets for Cardiovascular Disease in Marfan Syndrome*. Pharmacology & Systems Therapeutics Works in Progress. Icahn School of Medicine at Mount Sinai, New York, NY.
19. **Cook, J.R.**, F. Ramirez. 2012. *Cardiovascular Disease in the MFS Mouse*. P01 Retreat. Johns Hopkins School of Medicine, Baltimore, MD.
20. **Cook, J.R.**, F. Ramirez. 2012. *Marfan Syndrome: Of Molecules, Mice and Men*. Medical Scientist Research Seminar. Icahn School of Medicine at Mount Sinai, New York, NY.
21. **Cook, J.R.**, M. del Solar, F. Ramirez. 2011. *Impact of Genetic Dissection of Anatomical Compartments and Embryonic Lineages Responsible for Vascular Pathology in MFS*. Icahn School of Medicine at Mount Sinai 17<sup>th</sup> Annual Medical Student Research Day. New York, NY.
22. **Cook, J.R.**, M. del Solar, F. Ramirez. 2011. *Genetic Dissection of Vascular Pathology in MFS*. Translational Opportunities for the Heritable Disorders of Connective Tissue. Portland, OR.
23. **Cook J.R.**, M. del Solar, and F. Ramirez. 2011. *Genetic Dissection of Cardiovascular Pathology in Marfan Syndrome*. Pharmacology & Systems Therapeutics Works in Progress. Icahn School of Medicine at Mount Sinai, New York, NY.
24. **Cook J.R.**, S. Lee-Arteaga, L. Carta, H. Nistala, M. del Solar, and F. Ramirez. 2010. *Conditional Inactivation of Fibrillin-1 in Aortic Tissue Compartments*. 8<sup>th</sup> International Research Symposium on Marfan Syndrome. Airlie Center, Warrenton, VA.
25. **Cook J.R.** and F. Ramirez. 2010. *Treatment of Aortic and Bone Manifestations in MFS Mice*. P01 Retreat. Johns Hopkins School of Medicine, Baltimore, MD.
26. **Cook, J.R.**, F. Ramirez. 2008. *Localization and Developmental Expression of Two Extracellular Matrix Proteins: Understanding the Clinical Phenotype*. MSTP Rotation Presentation, Icahn School of Medicine at Mount Sinai, New York, NY.
27. **Cook J.R.** and D. Logothetis. 2007. *Expression Profile and Localization of Inward Rectifying Potassium Channel 5.1: A Potential Role in Regulating Renal Na Absorption*. MSTP Rotation Presentation, Icahn School of Medicine at Mount Sinai, New York, NY.
28. **Cook J.R.** and D. Logothetis. 2006. *Amino Acid Point Mutagenesis Studies to Examine Channel-PIP2 Interactions*. Senior Honors Biology Research Seminar, Grinnell College, IA.
29. **Cook J.R.** and B. Hanss. 2005. *Regulation of Cytosolic Malate Dehydrogenase (cMDH) by DNA in LLC-PK1 Cells*. Renal Epithelial Biology Seminar, Icahn School of Medicine at

Mount Sinai, New York, NY.

## POSTER PRESENTATIONS

1. Cheung, Steven., **Jason R. Cook**. 2021. Single Session Mechanical Thrombectomy For Acute IVC, Bilateral Iliac, And Common Femoral Venous Thrombosis. *Midwestern Vascular Annual Meeting 5<sup>th</sup> Annual Meeting*. Chicago, IL.
2. Cheung, Steven., **Jason R. Cook**. 2021. Successful Catheter-Directed Thrombolysis And Percutaneous Mechanical Thrombectomy For Sub-Acute Lower Limb Ischemia Secondary To Covid-19 Infection. *Midwestern Vascular Annual Meeting 5<sup>th</sup> Annual Meeting*. Chicago, IL.
3. Desmarais, T.J., **J.R. Cook**, B. Downing, J. Jim. 2019. *Elimination of routine post procedure labs following routine carotid interventions and EVAR*. Department of Surgery 5<sup>th</sup> Annual Patient Safety and Quality Improvement Session. Washington University. Saint Louis, MO.
4. **Cook, J.R.**, C.A. Vlada, J.W. Ohman, G. Fortuna. 2018. *Open device explant and extra-anatomic revascularization for an infected thoracic aortic endograft*. Midwestern Vascular Annual Meeting 4<sup>th</sup> Annual Meeting. Saint Louis, MO.
5. **Cook, J.R.**, S. J. Jim, L.A. Sanchez, S. Jayarajan. 2018. *The Trend of Type III Endoleaks Are Not Increasing*. Department of General Surgery 2018 Samuel A. Wells, Jr. Resident Research Competition at Washington University. Saint Louis, MO.
6. Jayarajan, S., **J.R. Cook**, J. Jim, L.A. Sanchez. 2018. *Type III Endoleaks Are Not Significantly Increasing Over Time*. Vascular Annual Meeting. Boston, MA.
7. **Cook, J.R.**, J. Jim, L. Sanchez, S. N. Jayarajan. 2018. *Preoperative and Intraoperative Predictors of Length of Stay Following Fenestrated Endovascular Aortic Aneurysm Repair (FEVAR)*. Society for the Clinical Vascular Surgery. Las Vegas, NV.
8. **Cook, J.R.**, L. Carta, L. Benard, E.R. Chemaly, E. Chiu, T. Hampton, N. Clayton, C. Nelson, B. Wentworth, R.J. Hajjar, F. Ramirez. 2012. *Impaired basement membrane function causes dilated cardiomyopathy in Marfan syndrome*. American Society of Human Genetics. San Francisco, CA.
9. Smaldone, S., **J.R. Cook**, M. del Solar, F. Ramirez. 2012. *Genetic characterization of osteopenia and bone overgrowth in Marfan syndrome*. American Society of Human Genetics. San Francisco, CA.
10. Carta, L., **J.R. Cook**, M. del Solar, M. Lindsay, E. Chiu, N. Clayton, C. Nelson, B. Wentworth, H. Dietz, F. Ramirez. 2012. *TGF $\beta$  signaling exerts dimorphic effects on aortic aneurysm formation and progression in Marfan syndrome*. American Society of Human Genetics. San Francisco, CA.
11. **Cook, J.R.**, L. Carta, L. Benard, E.R. Chemaly, E. Chiu, T. Hampton, N. Clayton, C. Nelson, B. Wentworth, R.J. Hajjar, F. Ramirez. 2012. *Cardiomyopathy is a primary cardiovascular manifestation in MFS*. Genetically Triggered Thoracic Aortic Aneurysms and Cardiovascular Conditions Thoracic Aortic Disease Summit. Chicago, IL.

12. **Cook, J.R.**, L. Carta, L. Benard, E.R. Chemaly, E. Chiu, T. Hampton, N. Clayton, C. Nelson, B. Wentworth, R.J. Hajjar, F. Ramirez. 2012. *Loss of Fbn1 leads to impaired basement membrane function and primary dilated cardiomyopathy in Marfan syndrome*. Icahn School of Medicine at Mount Sinai MSTP Retreat. New York, NY.
13. **Cook, J.R.**, L. Carta, L. Benard, E.R. Chemaly, E. Chiu, T. Hampton, R.J. Hajjar, F. Ramirez. 2012. *Cardiomyopathy is a primary cardiovascular manifestation in Marfan syndrome*. Pharmacology & Systems Therapeutics Symposium. Icahn School of Medicine at Mount Sinai, New York, NY.
14. **Cook, J.R.**, M. del Solar, F. Ramirez. 2012. *Genetic Dissection of Discrete Tissue Compartments in the Cardiovascular Pathology of MFS*. Icahn School of Medicine at Mount Sinai Revisit Weekend. Icahn School of Medicine at Mount Sinai, New York, NY.
15. **Cook, J.R.**, L. Carta, M. del Solar, F. Ramirez. 2011. *Inactivation of Fibrillin-1 in Vascular Smooth Muscle Cells (VSMCs) but not Endothelial Cells (ECs) replicates Thoracic Aortic Aneurysm (TAA) in Marfan Syndrome*. FASEB J. 25: 1b463. Experimental Biology 2011, Washington D.C.
16. L. Carta, H. Nistala, S. Lee-Arteaga, **J.R. Cook**, S. Smaldone, A. Rifkin and F. Ramirez. 2011. *Characterization and Treatment of Osteopenia in Mice with Severe Marfan Syndrome*. Icahn School of Medicine at Mount Sinai Revisit Weekend. New York, NY.
17. **Cook, J.R.**, M. del Solar, F. Ramirez. 2011. *Impact of Genetic Dissection of Anatomical Compartments and Embryonic Lineages Responsible for Vascular Pathology in MFS*. Icahn School of Medicine 10<sup>th</sup> Annual MD/PhD Retreat. Ellenville, NY.
18. **Cook J.R.**, L. Carta, M. del Solar, and F. Ramirez. 2011. *Inactivation of Fibrillin-1 in Specific Aortic Tissue Compartments replicates Thoracic Aortic Aneurysm seen in Marfan Syndrome*. Icahn School of Medicine at Mount Sinai Revisit Weekend. New York, NY.
19. **Cook J.R.**, F. Ramirez. 2010. *Conditional inactivation of Fibrillin-1 in Aortic Tissue Compartments*. Icahn School of Medicine 10<sup>th</sup> Annual MD/PhD Retreat. Ellenville, NY.
20. **Cook J.R.**, S. Lee-Arteaga, L. Carta, H. Nistala, M. del Solar, and F. Ramirez. 2010. *Conditional Inactivation of Fibrillin-1 in Aortic Tissue Compartments*. 8<sup>th</sup> International Research Symposium on Marfan Syndrome. Airlie Center, Warrenton, VA.
21. Carta, L., H. Nistala, S. Lee-Arteaga, **J.R. Cook**, S. Smaldone, A. Rifkin, and F. Ramirez. 2010. *Characterization and Treatment of Osteopenia in Mice with Severe Marfan Syndrome*. 8<sup>th</sup> International Research Symposium on Marfan Syndrome. Airlie Center, Warrenton, VA.
22. **Cook J.R.**, S. Lee-Arteaga, L. Carta, H. Nistala, M. del Solar, and F. Ramirez. 2010. *Conditional Inactivation of Fibrillin-1 in Vascular Smooth Muscle Cells*. Pharmacology and Systems Therapeutics Symposium. Icahn School of Medicine at Mount Sinai, New York, NY.
23. Goddard G.M., **J.R. Cook**, A. Teixeira, and B. Hanss. 2007. *Regulation of Cytosolic Malate Dehydrogenase Expression by Extracellular DNA*. FASEB J. 21: 938.19. Experimental Biology 2007, Washington D.C.
24. **Cook J.R.** and D. Logothetis. 2006. *Characterization of P2X3: Amino Acid Mutagenesis*

*Studies to Examine PIP2 Affinity*. 15th Annual Science Student Research Poster, Grinnell College, Grinnell, IA.

25. **Cook J.R.** and D. Logothetis. 2006. *Characterization of P2X3: Amino Acid Point Mutagenesis Studies to Examine PIP<sub>2</sub> Affinity*. Summer Undergraduate Research Rotation Poster, Icahn School of Medicine at Mount Sinai, New York, NY.

**Complete List of Published Work in MyBibliography:**

<https://www.ncbi.nlm.nih.gov/sites/myncbi/1Jl2ddkOdIpQl/bibliography/52986460/public/?sort=date&direction=ascending>

**CLINICAL EXPERIENCE**

Resident Physician	6/2015-
Preceptor: Dr. Jeffery Jim	6/2020
Barnes Jewish Hospital – Washington University of St. Louis	
Saint Louis, MO	

**COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES**

Associat Editor	2022-pr
Vascular Surgical Council on Resident Education (VSCORE)	
Co-Director of the Pulmonary Embolism Response Team	2022-pr
University of Nebraska Medical Center	
Omaha, NE	
Vascular Surgery Physician Quality Improvement Champion	2021-pr
University of Nebraska Medical Center	
Omaha, NE	
Vascular Surgery Fellowship Clinical Competency Committee	2020-pr
University of Nebraska Medical Center	
Omaha, NE	
General Surgery Residency Clinical Competency Committee	2020-pr
University of Nebraska Medical Center	
Omaha, NE	
Consult Subcommittee	2017-2018
Handoff and Communication Summit	
Graduate Medical Education	
Washington University	
Saint Louis, MO	
Resident Physician Administrative Reviewer	2016-2020
Education Monitoring Subcommittee	
Graduate Medical Education	
Washington University	

Saint Louis, MO

Graduate School Steering Committee MD/PhD Student Representative Icahn School of Medicine at Mount Sinai New York, NY	2011-2013
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MSTP Admission Committee Student Applicant Interviewer Icahn School of Medicine at Mount Sinai New York, NY	2010-2013
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Graduate School Curriculum Committee Graduate Student Representative Icahn School of Medicine at Mount Sinai New York, NY	2009-2011
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Summer Undergraduate Research Program Application Screener Graduate School Curriculum Committee Icahn School of Medicine at Mount Sinai New York, NY	2008-2013
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Dean's Harassment and Grievance Committee Student Representative Icahn School of Medicine at Mount Sinai New York, NY	2008-2015
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MD/PhD Retreat Organizing Committee Icahn School of Medicine at Mount Sinai New York, NY	2008-2012
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Student Chair of the Enrichment Knowledge Initiative Grinnell College Grinnell, IA	2006-2007
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Member, Biology Student Educational Policy & Curriculum Committees Grinnell College Grinnell, IA	2005-2007
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## **EDUCATIONAL ACTIVITIES**

### Teaching:

Teaching Assistant in Renal Physiology for the Medical School Physiology course Icahn School of Medicine at Mount Sinai New York, NY	2009-2013
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Teaching Assistant for three 200-level courses: Molecules, Cells, and Organelles Advisors Drs. V. Praitis ('06), C. Sullivan and R. Cabeza ('07). Grinnell College Grinnell, IA	2006-2007
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Teaching Assistant for 100-level courses: The Effect of Climate Change on Organisms ('04-'07) and Cell Fate: Calvin or Hobbes ('06)  
 Advisors: Drs. K. Jacobson & V. Praitis  
 Grinnell College  
 Grinnell, IA

Research mentor for summer students:

Luis Serota (Heschel High School, NY) 2011 – Final Round Participant at the New York Science and Engineering Fair Co-Founder and CTO Speech Up	2010-2012
Katie Hanss (Brearley High School, NY) Product Manager, Dropbox Inc.	2010-2012
Nicole Farage (Heschel High School, NY), 2012 – Final Round Participant at the New York Science and Engineering Fair Business Analytics Consultant, Oracle Founder & CEO of Victorywear Apparel	2011-2012
Reshma Mir (Bronx Science High School, NY) 2013 – Preliminary Round Participant at the New York Science and Engineering Fair Attended Massachusetts Institute of Technology, MA	2012

Ad hoc manuscript reviewer for:

- Journal of Vascular Surgery Vascular Science	2022-pr
- JACC Basic to Translational Science	2021-pr
- Annals of Vascular Surgery	2020-pr
- Vascular Journal	2020-pr
- Journal of Human Genetics (with mentor)	2014-2015
- Journal of Anesthesiology and Critical Care Medicine	2014-2015
- Journal of Pain Medicine	2014-2015
- Cell Reports	2013-2015
- Matrix Biology (with mentor)	2009-2013
- Journal of Biological Chemistry (with mentor)	2009-2013
- Atherosclerosis, Thrombosis, and Vascular Biology (with mentor)	2009-2015
- Human Molecular Genetics (with mentor)	2009-2015
- Circulation (with mentor)	2009-2013
- The Lancet (with mentor)	2009-2013