

Robert W Wysocki, MD, PhD

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<https://www.ncbi.nlm.nih.gov/myncbi/robert.wysocki.1/bibliography/public/>

EDUCATION

Hamilton College, Clinton, NY, USA Bachelor of Arts Major: Biochemistry and Molecular Biology Thesis Mentor: Jinnie Garrett, PhD Thesis: Characterizing the <i>AAT1</i> gene in the yeast <i>Saccharomyces cerevisiae</i>	May 2007
Stony Brook University, College of Arts and Sciences, Stony Brook, NY, USA Doctor of Philosophy in Genetics Dissertation Mentor: Mikala Egeblad, PhD, Cold Spring Harbor Laboratory Dissertation: Neutrophil Extracellular Traps (NETs) are induced by breast cancer cells to promote lung metastasis	May 2016
Stony Brook University, School of Medicine, Stony Brook, NY, USA Doctor of Medicine	Dec 2018

POST GRADUATE TRAINING

NYU Langone - Long Island, Department of Medicine, Mineola, NY, USA Internal Medicine Resident Associate Chief Resident (2021-2022)	2019 – 2022
Indiana University School of Medicine, Indianapolis, IN, USA Pulmonary Medicine Fellow Division of Pulmonary, Critical Care, Sleep, and Occupational Medicine	2023 – 2026
University of Maryland School of Medicine, Baltimore, MD, USA Postdoctoral Fellow Department of Medicine	2026 – Present

CLINICAL APPOINTMENTS

NYU Langone - Long Island, Department of Medicine, Mineola, NY, USA Clinical Assistant Professor NYU Long Island School of Medicine - Attending Hospitalist - Developed a Tip-sheet for new attending physicians rotating through the Home Hospital Service to improve workflow	July 2022 – May 2023
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TRANSLATIONAL AND BASIC SCIENCE RESEARCH

University of Maryland School of Medicine, USA Postdoctoral Fellow Laboratory of Roberto F Machado, MD Project Lead: 1) Endothelial and immune cell dysfunction in acute chest syndrome (ACS) 2) Single-cell RNA sequencing identifies erythroid-like endothelial cells in the lungs of a mouse model of sickle cell disease 3) T-cell receptor repertoire alterations in patients with sickle cell disease Techniques: Mammalian cell culture; Western blotting; Seahorse mitochondrial assay; siRNA treatment of cells; Single-cell RNA sequencing; Lung histological analysis	June 2026 – Present
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Research Fellow

Laboratory of Roberto F Machado, MD

- Project Lead:** 1) Endothelial and immune cell dysfunction in acute chest syndrome (ACS)
 2) Single-cell RNA sequencing identifies erythroid-like endothelial cells in the lungs of a mouse model of sickle cell disease
 3) T-cell receptor repertoire alterations in patients with sickle cell disease
- Techniques:** Mammalian cell culture; Western blotting; Seahorse mitochondrial assay; siRNA treatment of cells; Single-cell RNA sequencing; Lung histological analysis

Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA

2012 - 2016

Graduate Student

Laboratory of Mikala Egeblad, PhD

- Co-Lead:** 1) Neutrophil Extracellular Traps (NETs) are induced by breast cancer cells to promote lung metastasis
- Project Lead:** 2) Effects of anti-VEGF antibody treatment on vascular structure, drug distribution, and response to chemotherapy in mouse models of different breast cancer subtypes
- Techniques:** Intravital microscopy of the lung, mammary gland, and liver of mice; Immunofluorescence staining; Bioluminescent imaging; Mammalian cell culture; Rodent drug administration; Mouse handling and surgical procedures.

Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA

2011

Rotation Student

Laboratory of Nicholas Tonks, PhD

- Project:** Identification of novel stabilizing intrabodies targeting the oxidized form of Protein Tyrosine Phosphatase 1B (PTP1B)

Department of Microbiology, Stony Brook University, Stony Brook, NY, USA

2010

Rotation Student

Laboratory of Erich Mackow, PhD

- Project:** Effects of Dengue Virus Non-structural Protein 1 (NS1) on epithelial tissues

The Rockefeller University/Howard Hughes Medical Institute, New York, NY, USA

2007 - 2010

Research Assistant

Laboratory of Jeffrey Friedman, MD, PhD

- Projects:** 1) Molecular annotation of integrative feeding neural circuits
 2) Antidiabetic effects of Insulin-like Growth Factor Binding Protein 2 (IGFBP2)
 3) Molecular profiling of activated neurons by phosphorylated ribosome capture

QUALITY IMPROVEMENT RESEARCH

NYU-Winthrop Hospital

2017

Mineola, NY, USA

Division of Pulmonary, Critical Care, and Sleep Medicine

Supervisor: Dr. Shalinee Chawla, MD

- Project:** Effectiveness of the Sepsis Alert System in Clinical Decision Making

TEACHING

NYU Langone - Long Island, Department of Medicine, Mineola, NY, USA

July 2022 – May 2023

Clinical Assistant Professor

- Developed a lecture for IM residents entitled “A Hospitalist’s Approach to Acute Kidney Injury”
- Supervised residents and medical students

NYU Langone - Long Island School of Medicine, Mineola, NY, USA

2019 - 2022

Internal Medicine Resident

- Medical student small group lectures in HIV/AIDS; pulmonary embolism; and physical diagnosis rounds
- Skills training in ABG, Central Line placement, Nasogastric tube placement for junior residents and medical students

PUBLICATIONS

Prohaska, CC, JR Sysol, N Jones, **RW Wysocki**, SD Oliveira, RD Minshall, and RF Machado. 2025. Caveolin-1 is a central mediator of acute lung injury in an animal model of sickle cell disease. *Pulmonary Circulation*. Oct; 15(4):e70178. doi: 10.1002/pul2.70178. PMID: 41113757; PMCID: PMC12529879.

Albregues, J, **RW Wysocki**, L Maiorino, and M Egeblad. 2017. Preview: Re-cyclin' cell cycle components to make NETs. *Developmental Cell*. Nov; 43(5): 379-380. PMID: 29161586.

Park, J#, **RW Wysocki**#, Z Amoozgar#, L Maiorino#, MR Fein, J Jorns, AF Schott, Y Kinugasa-Katayama, Y Lee, NH Won, ES Nakasone, SA Hearn, V Küttner, J Qiu, AS Almeida, N Perurena, K Kessenbrock, MS Goldberg, and M Egeblad. 2016. Cancer cells induce metastasis-supporting neutrophil extracellular DNA traps. *Science Translational Medicine*. Oct; 8(361):3661ra138. PMID: 27798263. #These authors contributed equally to this work

Fein, MF, **RW Wysocki**, and M Egeblad. 2014. Cancer in the Spotlight: Using Intravital Imaging in Cancer Research. In: R Weigert editor. *Advances in Intravital Microscopy*. Springer.

Knight, ZA, K Tan, K Birsoy, S Schmidt, JL Garrison, **RW Wysocki**, A Emiliano, MI Ekstrand, and JM Friedman. 2012. Molecular profiling of activated neurons by phosphorylated ribosome capture. *Cell*. Nov; 151(5): 1126-1137. PMID: 23178128. PMCID: PMC3839252.

Pérez, CA, SA Stanley, **RW Wysocki**, J Havranova, R Ahrens-Nicklas, F Onyimba, and JM Friedman. 2011. Molecular annotation of integrative feeding neural circuits. *Cell Metabolism*. Feb; 13(2): 222-232. PMID: 21284989. PMCID: PMC3286830.

Hedbacker, K, K Birsoy, **RW Wysocki**, E Asilmaz, RS Ahima, IS Farooqi, and JM Friedman. 2010. Antidiabetic effects of IGFBP2, a leptin-regulated gene. *Cell Metabolism*. Jan; 11(1): 11-22. PMID: 20074524.

INVITED ORAL PRESENTATIONS

Indiana University School of Medicine, Department of Medicine Research Day 2026
Indianapolis, IN, USA
Invited Talk

Title: Single Cell RNA-Sequencing Identifies Erythroid-like Endothelial Transitioning Cells in the Lungs of a Sickle Cell Disease Mouse Model

Authors: Wysocki, RW, S Kaçar, KS Schweitzer, J Menezes Tatsch, J James, R Rafikov, and RF Machado

21st Annual Respiratory Young Investigators' Forum 2025
Denver, CO, USA
Invited Talk

Title: Single Cell RNA-Sequencing Reveals Profound Alterations in the Lung Transcriptome in a Mouse Model of Sickle Cell Disease

Authors: Wysocki, RW, S Kaçar, J James, KS Schweitzer, J Menezes Tatsch, R Rafikov, and RF Machado

The Biology of Cancer: Microenvironment, Metastasis, and Therapeutics 2015
Cold Spring Harbor, NY, USA
Oral Presentation

Title: Cancer cells induce metastasis-supporting neutrophil extracellular traps

Authors: Wysocki, RW, J Park, Z Amoozgar, MR Fein, Y Kinugasa-Katayama, Y Lee, NH Won, ES Nakasone, J Qiu, AS Almeida, N Perurena, K Kessenbrock, MS Goldberg, and M Egeblad

POSTERS AND ABSTRACTS

American Thoracic Society International Conference 2026
Orlando, FL, USA
Rapid Poster Discussion Session

Title: Single Cell RNA Sequencing Identifies Erythroid-like Endothelial Cells in the Lungs of a Mouse Model of Sickle Cell Disease

Authors: Wysocki, RW, S Kaçar, KS Schweitzer, J James, J Menezes Tatsch, R Rafikov, and RF Machado

American Thoracic Society International Conference San Francisco, CA, USA Thematic Poster and Abstract Title: Single Cell RNA-Sequencing Reveals Profound Alterations in the Lung Transcriptome in a Mouse Model of Sickle Cell Disease Authors: Wysocki, RW, S Kaçar, KS Schweitzer, J James, J Menezes Tatsch, R Rafikov, and RF Machado	2025
American College of Chest Physicians – CHEST Annual Meeting Nashville, TN, USA Short Talk Title: Critical Care Ultrasonography in Identifying and Treating Right-Heart Failure Authors: Wysocki, RW, EK Meier, A Zavin, and MA Shenoy	2022
American Medical Association Research Challenge Virtual Poster Session Poster and Abstract Title: Legionnaires’ disease in a healthy adult smoker complicated by massive pulmonary embolism resulting in cardiac arrest and subsequent disseminated intravascular coagulation Authors: Wysocki, RW, EK Meier, and SV Thomas	2021
American Thoracic Society International Conference Philadelphia, PA, USA Poster and Abstract Title: Catastrophic Antiphospholipid Syndrome (CAPS) Triggered by Pneumonia and Successfully Treated with Rituximab Authors: Wysocki, RW, C Kennedy-Snodgrass, T Abraham, M Lau, and SV Thomas	2020
The Biology of Cancer: Microenvironment, Metastasis, and Therapeutics Cold Spring Harbor, NY, USA Poster and Abstract Title: Effects of anti-VEGF antibody treatment on vascular structure, drug distribution, and response to chemotherapy in mouse models of different breast cancer subtypes Authors: RW Wysocki and M Egeblad	2015
Targeting VEGF-mediated Tumor Angiogenesis in Cancer Therapy New York, NY, USA Poster and Abstract Title: Effects of anti-VEGF antibody treatment on vascular structure, drug distribution, and response to chemotherapy in mouse models of different breast cancer subtypes Authors: RW Wysocki and M Egeblad	2014
Mechanisms and Models of Cancer Cold Spring Harbor, NY, USA Poster and Abstract Title: Effects of anti-VEGF antibody treatment on vascular structure, drug distribution, and response to chemotherapy in mouse models of different breast cancer subtypes Authors: RW Wysocki and M Egeblad	2014

HONORS AND AWARDS

Department of Medicine Research Day Indianapolis University School of Medicine, Indianapolis, IN, USA Top Ranked Fellow Scientific Abstract	2026
Graduate Student Symposium Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA Best Talk	2014

Medical Scientist Training Program Annual Retreat Stony Brook University, Stony Brook, NY, USA Best Poster	2013
Department of Biochemistry and Molecular Biology Hamilton College, Clinton, NY, USA Departmental Honors	2007

EXTRACURRICULAR COURSEWORK

<i>From Scientist to CSO: Experiencing the scientific method as your guide to career success</i> The New York Academy of Science, New York, NY, USA	2016
<i>Communicating Science: Improvisation for scientists</i> <i>Communicating Science: Writing to be understood</i> <i>Communicating Science: Distilling your message</i> Alan Alda Center for Communicating Science Stony Brook University, Stony Brook, NY, USA	2013

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science	2017 – Present
American College of Physicians	2010 – Present
American College of Chest Physicians	2017 – Present
American Heart Association	2026 – Present
American Medical Association	2010 – Present
American Physician Scientist Association	2009 – Present
• Membership Committee Vice-Chair (2013 – 2014) • Membership Committee Member (2012 – 2013)	
American Thoracic Society	2016 – Present
Indiana State Medical Association	2023 – Present
Medical Society of the State of New York	2010 – Present
New York Academy of Science	2007 – Present

LICENSES AND CERTIFICATIONS

American Heart Association BLS & ACLS Certification
New York State Medical License obtained 3/2022
Indiana State Medical License obtained 4/2023
Maryland State Medical License obtained 7/2026
American Board of Internal Medicine: Certified in Internal Medicine obtained 2022
American Board of Internal Medicine: Board Eligible in Pulmonary Medicine

ACTIVITIES

Medical Scientist Training Program, Stony Brook University, Stony Brook, NY, USA Research Day Organizing Committee Member Planned and organized an annual campus-wide event to highlight the research of MSTP students along with a keynote lecture	2014
Medical Scientist Training Program, Stony Brook University, Stony Brook, NY, USA Journal Club and Clinical Scientist Dinner Organizing Committee Member Organized monthly guest speakers to bring a clinical perspective to recently published scientific articles. Organized monthly guest physician-scientist speakers to discuss career advice and trajectories.	2012 - 2013
Medical Scientist Training Program, Stony Brook University, Stony Brook, NY, USA Admissions Committee Member	2012 - 2013
Graduate Student Organization, Stony Brook University, Stony Brook, NY, USA Senator from the Program in Genetics	2012 - 2013