

LILY LU

EDUCATION

- 2021-present** **Loyola University Medical Center**
Maywood, IL, United States
Residency Program – Internal Medicine
- 2017-2021** Wayne State University School of Medicine
Detroit, MI, United States
MD
- 2015-2017** University of Toronto
Toronto, ON, Canada
M. Sc. – Institute of Medical Science, Doctoral Program
- 2010-2014** University of Toronto
Toronto, ON, Canada
B. Sc. – Cell and Molecular Biology

TEACHING EXPERIENCES

- 2022-present** **M1 and M2 Preceptor Program**
Loyola University Stritch School of Medicine
Medical Student Preceptor/Mentor
- Supervised students taking histories and physicals with patients
 - Critiqued and evaluated their performance and notes
- 2018-2019** American Medical Association Friendship Baptist Tutoring
Wayne State University School of Medicine
Tutor
- Served as a tutor for grade school students in Math, History, English and Science

PRESENTATIONS & LECTURES

- 12/2023** Clinical Pathophysiology Conference (To be given)
Loyola University Medical Center
- 10/2022** Autopsy Conference
Loyola University Medical Center
- 9/2021** Patient with Arrhythmias (Clinical Question Conference)
Loyola University Medical Center

RESEARCH EXPERIENCE

2022-present QI Project

Loyola Outpatient Center – Internal Medicine Resident Clinic, Maywood, IL, US

- Examining ways to improve patient’s blood pressures in the outpatient setting in resident clinic (including NP follow ups)

2020-2021 COVID-19 Registry

Department of Emergency Medicine, Division of Clinical Research, Detroit Medical Center, Detroit, MI, United States

COVID-19 Data Abstractor

- Reviewed Detroit Medical Center patient charts to abstract data to construct database to research COVID-19 presentation, diagnostics and treatment

2015-2017 Robinson Laboratory

SickKids Research Institute, Toronto, ON, CA

Advisor(s): Dr. Lisa Robinson and Dr. Sergio Grinstein

Graduate Student (M. Sc.)

- Examined possible mechanisms involving the regulation of the metalloprotease ADAM17 on the surface of vascular endothelial cells in the context of chemokine shedding
- Performed Western blots, primary cell culture, ELISAs, confocal microscopy, live-cell imaging, single particle tracking, fluorescence recovery after photobleaching (FRAP), coimmunoprecipitation, transfection
- Designed experiments, and analyzed and interpreted data which serve as the bulk of a M. Sc. Thesis which was successfully defended in 2017

2012-2015 Licht Laboratory

SickKids Research Institute, Toronto, ON, Canada

Advisor(s): Dr. Christoph Licht

Project Student

- Performed diagnostic Western Blots on patient blood and platelet samples
- Examined the role of complement in patients who developed thrombotic microangiopathy (TMA) after hematopoietic stem cell transplant (HSCT)
- Examined the role of complement Factor H in platelets
- Examined the role of complement regulators in endothelial cells in TMA; designed experiments, performed live-cell flow chamber experiments and analyzed data which form the foundation of a written senior year Undergraduate Thesis

RESEARCH AWARDS/GRANTS

2018	Basic Science Prize – 3 rd Place - Wayne State Medical Student Research Symposium
2016	SickKids Restrcomp Award - \$24 000 CDN
2016	Canada Graduate Scholarship (NSERC CGS-M) - \$17 500 CDN
2015	Institute of Medical Science Entrance Award - \$5 000 CDN

RESEARCH PUBLICATIONS

Noone, D., Riedl, M., Pluthero, FG., Bowman, M., Liszewski, K., **Lu, L.**, Quan, Y., Balgobin, S., Schneppenheim, RS., Ulrich, B., James, P., Atkinson, P., Palaniyar, N., Kahr, W., Licht, C. 2016. Von Willebrand Factor regulates complement on endothelial cells. *Kidney Int.* Epub May 25: doi:10.1016/j.kint.2016.03.023

Noetzli, L., Lo, RW., Lee-Sherick, AB., Callaghan, M., Noris, P., Savoia, A., Rajpurkar, M., Jones, K., Gowan, K., Balduini, C., Pecci, A., Gnan, C., De Rocco, D., Doubek, M., Li, L., **Lu, L.**, Leung, R., Landolt-Marticorena, C., Hunger, S., Heller, P., Gutierrez-Hartmann, A., Xiayuan, L., Pluthero, FG., Rowley, JW., Weyrich, AS., Kahr, WHA., Porter, CC., Di Paola, J. 2015. Germline mutations in ETV6 are associated with thrombocytopenia, red cell macrocytosis and predisposition to lymphoblastic leukemia. *Nat Genet.* Epub Mar 25: doi:10.1038/ng.3253

Jodele, S., Fukuda, T, Vinks A., Mizuno, K., Laskin, BL., Goebel, J., Dixon, BP., Teusink, A., Pluthero, FG., **Lu, L.**, Licht, C., Davies, SM. 2013. Eculizumab therapy in children with severe hematopoietic stem cell transplantation-associated thrombotic microangiopathy. 2014. *Biol Blood Marrow Transplant.* Epub Dec 23: doi: 10.1016/j.bbmt.2013.12.565

Jodele, S., Licht, C., Goebel, J., Dixon, BP., Zhang, K., Sivakumaran, TA., Davies, SM., Pluthero, FG., **Lu, L.**, Laskin, BL. 2013. Abnormalities in the alternative pathway of complement in children with hematopoietic stem cell transplant-associated thrombotic microangiopathy. 2013. *Blood.* Epub Jun 27: doi: 10.1182/blood-2013-05-501445

RESEARCH PRESENTATIONS AND ABSTRACTS

Lu, L., Grinstein, S., Robinson, L. Elucidating the regulation of ADAM17-mediated shedding of CX₃CL1 in vascular endothelial cells. Wayne State School of Medicine, Wayne State University, Medical Student Research Symposium, Detroit, MI, 2018; **Poster**

Lu, L., Grinstein, S., Robinson, L. Elucidating the regulation of ADAM17-mediated shedding of CX₃CL1 in vascular endothelial cells. Institute of Medical Science, University of Toronto, Research Day, Toronto, ON, 2017; **Poster**

Noone, D., Riedl, M., **Lu, L.**, Quan, YE., Pluthero, F., Kahr, W., Licht, C. Blood outgrowth endothelial cells (BOECs) as a model to study atypical hemolytic uremic syndrome. ASN Kidney Week 2014, Philadelphia, PA., November 13-16, 2014. *J. Am. Soc. Neph.*, 2014: 25: 478A: **Abstract & Poster**

Noone, D., Riedl, M., **Lu, L.**, Quan, YE., Pluthero, F., Kahr, W., Licht, C. Blood outgrowth endothelial cells (BOECs) as a model to study atypical hemolytic uremic syndrome. 47th ESPN Annual Scientific Meeting of the European Society for Pediatric Nephrology, Porto, Portugal, September 18- 20, 2014. *Pediatr. Nephrol.* (2014) 29:1649-1867; **Poster**

Noone, D., Riedl, M., **Lu, L.**, Quan, Y., Pluthero, F. G., Kahr, W., Licht, C. Blood Outgrowth Endothelial Cells (BOECs) as a Model to Study Atypical Hemolytic Uremic Syndrome. Department of Paediatrics, University of Toronto, Research Day, Toronto, ON, 2014; **Poster**

Noone, D., Riedl, M., **Lu, L.**, Quan, Y., Pluthero, F. G., Kahr, W., Licht, C. Blood Outgrowth Endothelial Cells (BOECs) as a Model to Study Atypical Hemolytic Uremic Syndrome. Canadian Society of Nephrology (CSN), Vancouver, BC, 2014; **Abstract & Poster**

Lu, L., Pluthero, F. G., Licht, C. Alternative Pathway Regulation Functionality of Platelet Complement Factor H. SickKids Summer Research (SSuRe) Symposium 2012, Toronto, Ontario, 2012; **Poster**

VOLUNTEERING

- 2018-2020** **Volunteer, Cass Clinic** (Detroit, MI, United States) – Performed histories and physicals, developed assessments and plans and wrote notes under a supervising physician for patients without health insurance. Mentored underclassmen to do the same.
- 2018-2019** **Volunteer, AMA Friendship Baptist Tutoring** (Detroit, MI, United States) – Tutored grade-school children in the subjects of English, History, Math and Sciences
- 2018-2019** **Communications Chair, World Health Student Organization** (Detroit, MI, United States) – Planned, fundraised and coordinated international trips for underclassmen to experience medicine in other countries. Kept minutes for meetings, brainstormed solutions for trip logistics, communicated information about fundraising events to the student body and recruited students to organization.
- 2018** **Volunteer, Haiti Outreach Trip** (Port-Au-Prince, Haiti) – Prepared and fundraised for a trip to Port-Au-Prince, Haiti where we distributed supplies, volunteered and shadowed at hospital clinics and interacted with fellow Haitian medical students

CERTIFICATIONS

2023-2025 **BLS/ACLS**

HOBBIES/INTERESTS

- Piano** Classically trained pianist. Achieved Associate of the Royal Conservatory of Music in Piano Performance in 2010. Play for relaxation.
- Travel** I am an avid traveler who enjoys exploring new places and cultures with family and friends. Was last in Iceland in 8/2023.
- Soccer** Bayern Munich/Germany fan!