Lauren O'Grady

Education

Boston University School of Medicine — Boston, MA
Masters of Science in Genetic Counseling — Class of 2015
Capstone Project (Thesis): *Education of children with Sanfilippo syndrome: Identification of needs, challenges, and services required for children with Sanfilippo syndrome by their parents*

Virginia Polytechnic Institute and State University (Virginia Tech) — Blacksburg, VA
Major: Biochemistry — Class of 2013
Minor: Chemistry
Honors: Graduated Magna Cum Laude, Member of the Phi Beta Kappa Honors Society, Deans List, Top 10%

Work Experience

- Massachusetts General Hospital, Medical Genetics — June 2015-Present
  Licensed Genetic Counselor
  - Responsible for clinic coordination of the metabolic genetics program
  - Coordinates all newborn screening visits and follow up with the state lab
  - Provides genetic counseling in a pediatric, adult, and preconception setting
  - Provides genetic counseling in specialty clinics including metabolism clinic, 22q11.2 deletion syndrome clinic, and Stickler syndrome clinic.
  - Works in conjunction with a medical geneticist and independently
  - Supervises genetic counseling students
  - Creates patient friendly resources covering various genetic counseling topics

- MGH Institute of Health Professions — June 2019-Present
  Adjunct Assistant Professor — June 2020-Present
  - Taught the metabolism course for genetic counseling graduate students
  - Lectured course material and graded all related assignments

  Course Designer — June 2019-May 2020
  - Created the curriculum for the metabolism course for genetic counseling graduate students
  - Created lectures, quizzes, assignments, and assessments

- Genzyme Lysosomal Storage Disease Fellow — July 2021-January 2023
  - Awarded this fellowship to study the ramifications of newborn screening for Mucopolysaccharidosis type I and Pompe disease.
  - Studied the incidence of pseudodeficiency alleles in the MGH Biobank

Professional Licensure

- American Board of Genetic Counseling — August 2015-Present

Board Certified Genetic Counselor

- Massachusetts State Licensure August 2015-Present
  Licensed Genetic Counselor

Educational Outreach

- MGH Institute of Health Professions
  - Lecturer: "Lab Methods of Newborn Screening" 2020, 2021
  - Lecturer: MEGDEL syndrome seminar presentation 2020
- Boston University Genetic Counseling Program
  - Lecturer: "Amino Acid and Organic Acid Disorders" 2017, 2018, 2019, 2020
  - Lecturer: "How to Build a Specialty clinic" March, 2016
- Brandeis University Genetic Counseling Program
  - Lecturer: "Case Presentation: Newborn Screening" March, 2018
- Massachusetts Institute of Technology/Harvard Medical School
  - Lecturer: "22q Deletion" October, 2016

Awards and Honors

- MGH/MGPO Edward P Lawrence Center for Quality & Safety 2021
  - *Patient Safety Star*

Conferences and Professional Membership

- American College of Medical Genetics 2021
- New England Consortium of Metabolic Programs 2019, 2020
  - Planning Committee for annual meeting
  - Presenter of case presentation 2019
- National Society of Genetic Counselors: Annual Education Conference 2015
  - Pittsburgh, PA
  - Presented a poster: *Education of children with Sanfilippo syndrome: Identification of needs, challenges, and services required for children with Sanfilippo syndrome by their parents*
- National Society of Genetic Counselors: Annual Education Conference 2018
  - Atlanta, GA
  - Attendee
- New England Regional Genetics Group (NERGG) Genetic Counseling Meeting 2015
  - Presentation titled: *Education of children with Sanfilippo syndrome: Identification of needs, challenges, and services required for children with Sanfilippo syndrome by their parents*
- Presented and participated at weekly genetics grand rounds at MGH 2015-Present
- National Society of Genetic Counselors 2014-Present
  Member
- Presented and participated at weekly journal club meetings at Boston University 2013-2015

Relevant additional training

- Genzyme lysosomal storage disease fellowship July 2021-present
- Course Design Institute May-June 2019
  - *MGH Institute of Health Professions*

- MGH Serious Illness Care Training Program July 30, 2019

Student Supervision

- Supervised genetic counseling students from Boston University August 2015- Sept. 2019
- Supervised genetic counseling students from Brandeis University August 2015- Sept. 2019
- Supervised genetic counseling students from MGH Institute of Health Professions September 2019-Present

Posters presented at Conferences

- American College of Medical Genetics Annual Conference 2021
  - Presenter and first author of: *Heterozygous Variants in PRPF8 are Associated with Neurodevelopmental Disorders*
- National Society of Genetic Counselors: Annual Education Conference 2020
  - Author of: *The "Floating GCA": Introducing a Multidisciplinary Genetic Counseling Assistant in an Academic Hospital*
- American College of Medical Genetics Annual Conference 2017
  - Author of: *Use of Social Media Targeting Patients and Families Changes National and Global Health Care Outcomes for People with Chromosome 22 Conditions*
- National Society of Genetic Counselors: Annual Education Conference 2015
  - *Presented: Education of children with Sanfilippo syndrome: Identification of needs, challenges, and services required for children with Sanfilippo syndrome by their parents*

Publications

Stolerman ES, Francisco E, Stallworth JL, Jones JR, Monaghan KG, Keller-Ramey J, Person R, Wentzensen IM, McWalter K, Keren B, Heron B, Nava C, Heron D, Kim K, Burton B, Al-Musafri F, **O'Grady L**, Sahai I, Escobar LF, Meuwissen M, Reyniers E, Kooy F, Lacassie Y, Gunay-Aygun M, Schatz KS, Hochstenbach R, Zwijnenburg PJG, Waisfisz Q, van Slegtenhorst M, Mancini GMS, Louie RJ. Genetic variants in the KDM6B gene are associated with neurodevelopmental delays and dysmorphic features. Am J Med Genet A. 2019 Jul;179(7):1276-1286. doi: 10.1002/ajmg.a.61173. Epub 2019 May 23. PMID: 31124279.

Neuser S, Brechmann B, Heimer G, Brösse I, Schubert S, **O'Grady L**, Zech M, Srivastava S, Sweetser DA, Dincer Y, Mall V, Winkelmann J, Behrends C, Darras BT, Graham RJ, Jayakar P, Byrne B, El Bar-Aluma B, Haberman Y, Szeinberg A, Aldhalaan HM, Hashem M, Tenaiji AA, Ismayl O, Al Nuaimi AE, Maher K, Ibrahim S, Khan F, Houlden H, Ramakumaran VS, Pagnamenta AT, Posey JE, Lupski JR, Tan WH, ElGhazali G, Herman I, Muñoz T, Repetto GM, Seitz A, Krumbiegel M, Cecilia Poli M, Kini U, Efthymiou S, Meiler J, Maroofian R, Alkuraya FS, Jamra RA, Popp B, Ben-Zeev B, Ebrahimi-Fakhari D. Clinical, neuroimaging and molecular spectrum of TECPR2-associated hereditary sensory and autonomic neuropathy with intellectual disability. Hum Mutat. 2021 Apr 13. doi: 10.1002/humu.24206. Epub ahead of print. PMID: 33847017. DOI: 10.1002/humu.24206

Sourbron J, Jansen K, Mei D, Hammer TB, Møller RS, Gold NB, **O'Grady L**, Guerrini R, Lagae L. SLC7A3: In Silico Prediction of a Potential New Cause of Childhood Epilepsy. Neuropediatrics. 2022 Feb;53(1):46-51. doi: 10.1055/s-0041-1739133. Epub 2021 Dec 6. PMID: 34872132.

O'Grady, L., Schrier Vergano, S. A., Hoffman, T. L., Sarco, D., Cherny, S., Bryant, E., Schultz-Rogers, L., Chung, W. K., Sacharow, S., Immken, L. L., Holder, S., Blackwell, R. R., Buchanan, C., Yusupov, R., Lecoquierre, F., Guerrot, A.-M., Rodan, L., de Vries, B. B. A., Kamsteeg, E. J., ... Gold, N. B. (2022). Heterozygous variants in PRPF8 are associated with neurodevelopmental disorders. American Journal of Medical Genetics Part A, 1–10. https://doi. org/10.1002/ajmg.a.62772

Reviewer for the American Journal of Medical Genetics