



MICHIGAN MEDICINE
UNIVERSITY OF MICHIGAN

Medical Genetics Residency Program

Program leadership



Program Director:
Catherine (Katy) Keegan
keeganc@umich.edu



Associate Program Director:
Amanda Pritchard
abarone@umich.edu



Program Coordinators:
Nicole Schwartz and Jill Cahill
nischwar@umich.edu
cahillj@umich.edu

Diversity, equity and inclusion

- Our training program **VALUES** a diverse community, including trainees, faculty, and staff
- We **WELCOME** individuals with differing life experiences and points of view
- We **STRIVE** to foster an inclusive environment for our training program

Program Mission and Aims

- **Mission:** To graduate leaders in medical genetics and genomics who will make a difference in the lives of children and adults with genetic and biochemical diseases.
- **Aims:**
 - Develop skilled medical geneticists who seek lifelong learning and scholarship to improve the health of their patients and families
 - Provide exemplary patient care in all disciplines that is safe and patient centered
 - Train medical geneticists who are enthusiastic and engaged educators
 - Encourage diversity in perspectives and backgrounds
 - Nurture compassionate medical geneticists who find joy throughout their careers
 - Promote an environment that emphasizes resident initiatives and wellness

Curriculum

- Clinical rotations
- Laboratory rotations
- Research/scholarly activity
- Didactic curriculum
- Conferences
- Outreach clinics

Curriculum—Clinical rotations

Pediatric Genetics
8 blocks

Katy Keegan MD, PhD



Cancer Genetics
2 blocks

Tony Scott, MD, PhD



Biochemical Genetics
4 blocks

Beth Ames, MD, PhD



Prenatal Genetics
1 block

Sarah Davis, MD



Adult Genetics
3 blocks

Wendy Uhlmann, MS, CGC



Adult Neurogenetics
1 block

John Fink, MD, PhD



Curriculum--Laboratory Rotations



Biochemical Genetics
Lidong Zhai, PhD



Molecular Genetics and Cytogenetics
Chen Yang, PhD and Lina Shao, PhD



2-week rotations
All conveniently located in Ann Arbor
No clinics/call during lab rotations

Curriculum—Research and Scholarly Activities

- Research/Individualized Curriculum
 - 6 blocks
 - Multiple opportunities
 - Basic/Clinical/Translational
 - Tailored to your interests

Didactics and Conferences

- Medical Genetics didactic curriculum
- Biochemical Genetics didactic curriculum
- Laboratory signout teaching sessions
- Monday Clinical Genetics journal club
- Friday post-clinic conference
- Medical Genetics Grand Rounds (monthly)
- Other courses available through Human Genetics Dept. based on interest

Curriculum--Outreach clinics



Marquette, MI
(Upper Peninsula)



Traverse City, MI
(Northern Lower Peninsula)

Sample Schedule*—Categorical Program

Medical Genetics and Genomics Schedule

HO4 year

1	2	3	4a	4b	5	6	7	8	9	10	11	12	13
PGC	BG	Mol/Cyto	Bio	PGC	PGC	BG	PGC	Ca	Ca	Ad	Ad	Ad	NG

HO5 year

1	2	3	4 Bio	5	6	7	8	9	10	11	12	13
PN	PGO	BG	PGO	BG	PGO	PGC	IC/Res	IC/Res	IC/Res	IC/Res	IC/Res	IC/Res

Rotations

Pediatric Genetics Consults (PGC)- 4.5
 Biochemical Genetics (BG) – 4
 Pediatric Genetics Outpatient (PGO)—3
 Adult Genetics (Ad) -3
 Cancer Genetics (Ca) – 2
 Adult Neurogenetics (NG) -1
 Prenatal Genetics (PN) -1
 Bio Lab -2 weeks
 Mol Lab -2 weeks
 Cyto Lab -2 weeks
 Individualized Curriculum (IC)/Research -6

***Schedules may vary. This is only an example.**

Sample Schedule*—Combined Program

Peds/ Medical Genetics Schedule

Intern year- thirteen 4 week blocks of peds

Newborn	PEM/ vacation	Dev/Behav	Adolescent	NICU	Inpt Team	Inpt Team	Inpt team/Night team	PEM/ CC/PDW	Elective vacation	Elective vacation	Elective	PCH1
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HO2 year- nine 4 week blocks of medical genetics, four 4 week blocks of peds

PGC	BG	PGC	Mol/Cyto	Ad	Ca	PEM	NICU-Sr	PICU	Elective/ vacation	PGC	PGC	Bio	BG
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HO3 year- eight 4 week blocks of medical genetics, five 4 week blocks of peds

PGC	BG	PEM	Inpt Team	Elective/ vacation	Elective/ vacation	BG	PN	NG	Ca	Ad	Ad	Elective
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HO4 year- 3 four week blocks of medical genetics, 6 four week blocks of individual curriculum (research), four 4 week blocks of peds

PICU	PCH2	Inpt Team	Elective/ vacation	PGO	PGO	PGO	IC/Res	IC/Res	IC/Res	IC/Res	IC/Res	IC/Res
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*Schedules may vary. This is only an example.

Logbook, ABMGG exam, ACGME

- Our trainees have no problem getting the required number of cases for their logbooks
- We have a 100% pass rate for the ABMGG exam
- We are accredited by ACGME

Pediatric and Biochemical Genetics Faculty



Ayesha Ahmad, MD



Beth Ames, MD, PhD



Mark Hannibal,
MD, PhD



Tomo Higashimoto,
DO, PhD



Katy Keegan, MD, PhD



Kristen Lee, MD



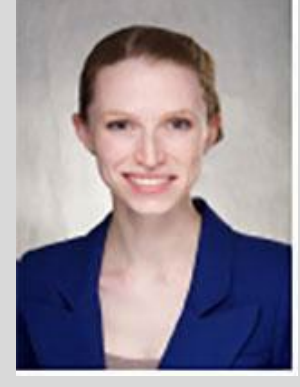
Donna Martin,
MD, PhD



Amanda Pritchard, MD



Shane Quinonez, MD



Christina Sloan-
Heggen, MD, PhD

Adult and Cancer Genetics Faculty



Anthony Scott,
MD, PhD



Wendy Uhlmann,
MS, CGC



Kristen Lee, MD



Tomo Higashimoto,
DO, PhD



Beth Ames, MD, PhD



Tobias Else, MD



Elena Stoffel, MD,



Andrea Murad,
MS, CGC



Shane Quinonez, MD

Current Medical Genetics Trainees: 2024-2025

Categorical Medical Genetics Residents

Jessica Aderman, DO

Megan Harrison, MD

Combined Pediatrics-Medical Genetics Residents

Brian Muchmore, MD

Lia Boyle, MD, PhD

Chris Connolly, MD, MBA

Shane Reeves, MD

Lane Savage, MD

Sara Tsimerman, MD

Mark Dulchavsky, MD, PhD

Francesco Sautto, MD

Medical Biochemical Genetics Fellows

Mike Finkel, MD

Kiri Sunde, MD

Pediatric Genetics Genetic Counselors



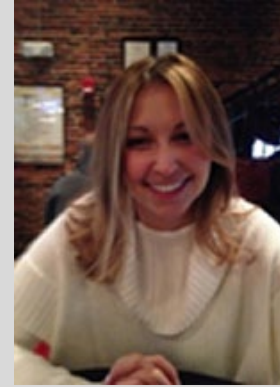
Adelyn Beil,
MS, MPH, CGC



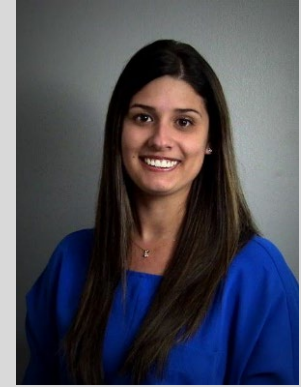
Anna Burton,
MS, CGC



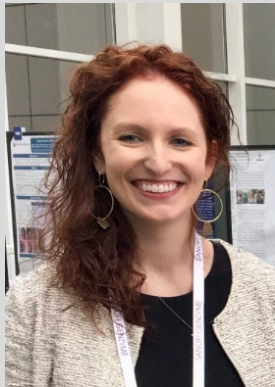
Erika Chick,
MS, CGC



Rachel Fisher,
MS, CGC



Lauren Frazier,
MS, CGC



Bridget O'Connor,
MS, CGC



Jessica O'Shea,
MS, CGC



Sophia Svoboda,
MS, CGC

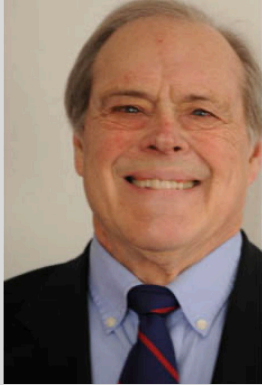


Mallory Wagner,
MS, CGC



Angela
Brooks, GCA

Additional faculty and staff



Jess Thoene, MD
Emeritus faculty



Jeanne Arthur, RN



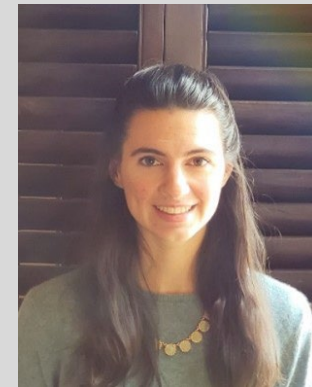
Andy Shawhan,
MS, CPNP-PC



Marie Krause, MSW



Megan Rose, RD



Martha Barnes, RD

Thank you for your interest in our Program!



Medical Genetics Residency Program

