

Center for Genomic Medicine Pilot Awards *Request for Proposals*

Overview

Philanthropic donations to the Center for Genomic Medicine will support pilot awards up to \$50,000. This has replaced the Utah Genome Project Pilot Program.

The mission of the Center for Genomic Medicine is to bring together patients, providers, and researchers to discover the genetic causes of disease and translate these discoveries into better diagnoses, treatments, and prevention strategies.

Timeline

- Deadline for submission is Thursday, **March 31st, 2022**, midnight local time.
- Decisions will be made by May 31st, 2022
- Funding will start July 1st, 2022

Research Scope

We invite applications that build upon the mission of Center for Genomic Medicine as stated above. Areas of interest include (but are not limited to):

- Clinical or public health translation and impact of genomic medicine and discoveries
- Landscape of human somatic mosaicism
- Large scale screens of functional variants
- Multi-omic integration
- Studies exploring the variability of penetrance and expressivity of human genetic conditions
- Clinical implementation of multi-SNP and polygenic risk score
- Development of new computational or statistical methods that empower genomic medicine
- Health economics of genetic testing

We strongly encourage projects to consider the following:

- Clinical implementation
- Diversity
- Ethical Legal and Social Implications (ELSI)

Eligible Applicants

- Only one research proposal per principal investigator (PI) will be reviewed.
- PI must be an early career investigator (Assistant Professor) OR an investigator who has not received R01-level funding associated with genomic medicine (new to this field) OR faculty who started at the University of Utah between January 2020 and January 2022.

- PI must be a member of the Center for Genomic Medicine. If you are not already a member, you may join by completing a [brief survey](#). Please contact chelsie.smith@hsc.utah.edu if you have any questions.
- PI must be a tenure- or career-track faculty at the University of Utah.

Proposal Preferences

Preference will be given to projects that include all four of the following features:

- Have significant scientific merit.
- Have a high potential for extramural funding, preferentially from the NIH.
- Are not currently supported by extramural funding.
- Represent work from new collaborative teams.

Applicants are strongly encouraged to consult with University resources to build a competitive application.

- Health Sciences and HCI cores and recharge: [HSC Cores: Home – HSC Cores Website \(utah.edu\)](#)
- Center for Genomic Medicine: [Researcher Resources | University of Utah Health](#)

Cohort identification, IRBs, coordination, recruitment, UGP's umbrella IRB	Utah Genome Project <ul style="list-style-type: none"> • Deb Neklason deb.neklason@hci.utah.edu
Genomic/Bioinformatic Analysis and Study Design	Utah Center for Genomic Discovery Core <ul style="list-style-type: none"> • http://cores.utah.edu/ucgd/ • Nodira Codell Nodira.codell@genetics.utah.edu
Bioinformatic Analysis	High-Throughput Genomics Shared Resources <ul style="list-style-type: none"> • https://uofuhealth.utah.edu/huntsman/shared-resources/gba/htg/ • David Nix David.nix@hci.utah.edu
Model organisms and functional analysis	Functional Analysis Service <ul style="list-style-type: none"> • https://uofuhealth.utah.edu/center-genomic-medicine/research/functional-studies.php • Charlie Murtaugh murtaugh@genetics.utah.edu
Genetic Counseling	Genetic Counseling Shared Resource <ul style="list-style-type: none"> • Genetic Counseling Shared Resource - Huntsman Cancer Institute University of Utah • Wendy Kohlmann wendy.kohlmann@hci.utah.edu
Statistics	CTSI Study Design and Biostatistics Center <ul style="list-style-type: none"> • https://medicine.utah.edu/ccts/sdbc/. Cancer Biostatistics Shared Resource <ul style="list-style-type: none"> • https://uofuhealth.utah.edu/huntsman/shared-resources/cancer-biostatistics/ • Ken Boucher ken.boucher@hci.utah.edu

Sequencing	High Throughput Genomic Analysis Shared Resource <ul style="list-style-type: none"> • https://uofuhealth.utah.edu/huntsman/shared-resources/gba/htg/ • Brian Dalley brian.dalley@hci.utah.edu DNA Sequencing Core <ul style="list-style-type: none"> • http://cores.utah.edu/dna-sequencing/ • Derek Warner dwarner@cores.utah.edu
Utah Population Database	UPDB Navigator <ul style="list-style-type: none"> • https://uofuhealth.utah.edu/huntsman/utah-population-database/ • Jennifer West, Jennifer.west@hci.utah.edu
Research Ethics	Research Ethics Consultation Service <ul style="list-style-type: none"> • Joyce Havstad researchintegrity@utah.edu

Application Instructions

Applications and all supporting documents to be submitted via [InfoReady](#) by **March 31st, 2022 as a single PDF entitled "PI Last Name_CGM2022.pdf"**. Font and spacing should be NIH compliant. Plan and budget for all aspects of project including genomic data processing, storage, and analysis. Grant administration is the responsibility of the principal investigator(s).

All applications must include each item in the following order:

1. Cover page. PI (department, title, and contact information), co-investigators (department, title, and contact information), project title, IRB/IAUC approval numbers—if relevant
2. Lay abstract summarizing the project and its potential impact (150 word max). *This will be shared with donors, so please ensure it is written for the lay audience*
3. Specific aims of the research proposal (1/2 page)
4. Detailed proposal. (Up to 3 pages, including figures). Please address significance, innovation, approach, timeline, clear deliverables, data sharing plan, and plan for external funding.
5. References (no page limit)
6. Budget justification (1 page)
7. Budget – use provided template
8. NIH biographical sketch for investigators (5 pages)
9. Current and pending support for all investigators
10. List of investigator's past University of Utah pilot grant funding (title, amount, dates, resulting publications and external grants).

Budget Guidelines

Pilot grant funds may be used for salaries and benefits of non-faculty project personnel, supplies, miscellaneous expenses, and services. Funds *cannot* be used for faculty salaries, travel that is not directly related to project research (e.g., conferences cannot be supported by this grant), consultants, or office equipment, including computers (unless specifically justified).

Evaluation and Funding of Proposals

Proposals will be reviewed by the Utah Genome Project Scientific Advisory Board to assess innovation, scientific merit, likelihood for success, and external funding, and alignment with the mission of the Center for Genomic Medicine. If human subjects or animal research are involved, one copy of the IRB or IACUC approval will be required prior to release of funds.

Progress Reports

The following reports are required from all awarded PIs. Templates will be provided.

6 months	Progress report will be required for review by the research committee to assure adequate scientific progress.
1 year	Progress report describing the results and deliverables of the research, future directions, and plans to secure additional funding.
Up to 3 years	Report of outcomes, diagnoses/clinical impact, publications, or extramural funding stemming from the work.

PIs may also be asked to participate in the preparation of additional reports to donors or in events with presentations to donors.

Questions? Please contact: Chelsie Smith at Chelsie.smith@hsc.utah.edu or Deb Neklason at Deb.Neklason@hci.utah.edu

