

National Advisory Council for Human Genome Research
September 16-17, 2019
Concept Clearance for PAR

Title: Genomic Community Resources (U24)

Purpose: To facilitate genomic research and the dissemination of its products, NHGRI supports genomic resources that are crucial for basic research, disease studies, model organism studies, and other biomedical research. Awards under this FOA will support the development and distribution of genomic resources that will be valuable for the broad research community, using cost-effective approaches. Such resources include (but are not limited to):

- Databases and informatics resources
(such as human and model organism databases, ontologies, and analysis toolsets),
- Comprehensive identification and collections of genomic features
(such as functional genomic elements), and
- Standard data types produced using central sets of samples
(such as structural variants in 1000 Genomes or GTEx samples).

New or renewal/modified initiative: Renewal

No significant changes are being proposed from the current PAR.

Current PAR: <https://grants.nih.gov/grants/guide/pa-files/par-17-273.html> (U24)

2014-2017: <https://grants.nih.gov/grants/guide/pa-files/PAR-14-191.html> (U41)

2011-2014: <https://grants.nih.gov/grants/guide/pa-files/par-11-095.html> (U41)

Pre-2011, supported under P41 activity code

Mechanism of Support: Other Research Related / [U24](#)

Appendix 1: Awards under previous rounds of the FOA (FY17-19 only)

PAR-17-273, PAR14-191, PAR-11-095

Initiative	Grant	PI	Title	2017	2018	2019*
No Specific Initiative	HG001715	Vidal, Marc	A human binary interactome reference map by 2020	\$1.4 M	-	-
	HG002371	Kent, William	The UCSC Genome Browser	\$4.1 M	\$3.6 M	\$3.6 M
	HG003345	Birney, Ewan	The Nomenclature of Human and Vertebrate Genes	\$0.5 M	\$0.6 M	\$0.6 M
	HG003751	Stein, Lincoln	Reactome: An Open Knowledgebase of Human Pathways	\$1.4 M	\$1.4 M	\$1.9 M
	HG004059	Morgan, Martin	Bioconductor: An Open Computing Resource for Genomics	\$1.4 M	\$1.3 M	\$1.3 M
	HG006620	Taylor, James	Democratization of Data Analysis in Life Sciences Through Galaxy	\$1.7 M	\$1.7 M	\$1.7 M
	HG006623	Sander, Chris	Pathway Commons: Research Resource for Biological Pathways	\$0.9 M	-	-
	HG006627	Hamosh, Ada	Online Mendelian Inheritance in Man (OMIM)	\$1.9 M	\$1.9 M	\$1.9 M
	HG006673	Gygi, Steven	Systematic Exploration of the Human Interactome	\$0.7 M	\$0.7 M	\$0.7 M
	HG007050	Hamilton, Carol	Genomic Resource Grant for the PhenX Toolkit - expansion and sustainability	\$1.3 M	\$2.1 M	\$1.3 M
	HG007234	Flicek, Paul	GENCODE: comprehensive genome annotation for human and mouse	\$2.6 M	\$2.5 M	\$2.7 M
	HG007346	Brenner, Steven	Center for Critical Assessment of Genome Interpretation	\$0.3 M	-	-
	HG007355	Waterston, Robert	Creating Comprehensive Maps of Worm and Fly Transcription Factor Binding Sites	\$0.9 M	\$3.1 M	\$2.4 M
	HG007497	Lee, Charles	Identifying and Characterizing the Full Spectrum of Haplotype-resolved Structural Variation in Human Genomes	\$2.0 M	-	\$2.9 M
	HG007517	Mesirov, Jill	GenomeSpace: community web environment for analysis across diverse genomic tools	\$1.8 M	-	-
	HG007635	Wilson, Richard	Improving the Human Reference Genome Resource	\$1.1 M	-	-
	HG007822	Bateman, Alex	UniProt: A centralized protein sequence and function resource	\$5.2 M	\$3.7 M	\$3.0 M
	HG007823	Parkinson, Helen	Establishing the GWAS Catalog as a resource for large-scale association studies	\$0.8 M	\$1.1 M	\$0.9 M
	HG008735	Schriml, Lynn	The Disease Ontology Project: mechanistic profiles of human disease for biomedical and clinical research	\$0.8 M	\$0.7 M	\$0.7 M
	HG008736	Resch, Alissa	Sample Repository for Human Genetic Research	\$0.9 M	\$0.9 M	\$0.9 M
HG009293	Cherry, Joe	RegulomeDB: A Resource for the Human Regulome	\$0.8 M	\$0.7 M	\$0.7 M	
HG009494	Ardlie, Kristin	A portal and integrative collaborative analysis platform for GTEx	\$0.1 M	\$0.1 M	\$0.2 M	
HG009889	Graveley, Brenton	A Comprehensive Functional Map of Human Protein-RNA Interactions	-	\$2.6 M	\$2.3 M	
HG010100	Mcmillan, Leonard	Genomic Resources for the Collaborative Cross	-	\$0.4 M	\$0.4 M	
HG010135	Relling, Mary	Clinical Pharmacogenetics Implementation Consortium (CPIC)	-	\$0.8 M	\$0.8 M	
HG010136	Smit, Arian	Dfam: sustainable growth, curation support, and improved quality for mobile element annotation	-	\$0.7 M	\$0.6 M	
Model Organism Databases (MODs)	HG000330	Bult, Carol	Mouse Genome Database	\$4.4 M	\$4.1 M	\$3.9 M
	HG000739	Perrimon, Norbert	FlyBase: A Drosophila Genomic and Genetic Database	\$4.3 M	\$3.7 M	\$3.4 M
	HG001315	Cherry, Joe	Genomic Resource for the Yeast Saccharomyces	\$2.4 M	\$2.2 M	\$2.1 M
	HG002223	Sternberg, Paul	WormBase: a core data resource for C. elegans and other nematodes	\$4.2 M	\$3.7 M	\$2.3 M
	HG002273	Thomas, Paul	Gene Ontology Consortium	\$3.1 M	\$2.9 M	\$2.7 M
HG002659	Westerfield, Monte	ZFIN: The Zebrafish Model Organism Database	\$3.2 M	\$3.0 M	\$2.8 M	
ClinGen	HG006834	Rehm, Heidi	Clinical Genome Resource	\$3.1 M	\$3.6 M	\$3.5 M
	HG009649	Bustamante, Carlos	Clinical Genome Resource (ClinGen)	\$2.9 M	\$3.0 M	\$3.3 M
	HG009650	Berg, Jonathan	The Clinical Genome Resource - Expert Curation and EHR Integration	\$3.1 M	\$3.7 M	\$3.3 M
Total				\$63.0 M	\$60.4 M	\$58.8 M

*Fiscal Year 2019 numbers are not final