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# Concept Clearance: Genomic Community Resources (U24)

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National Human Genome  
Research Institute

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The **Forefront**  
of **Genomics**<sup>®</sup>  
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# Genomic Community Resources

- Databases and informatics resources
  - WormBase, OMIM, ClinGen, Galaxy, Bioconductor
- Comprehensive collections of genomic features
  - GENCODE
- Standard data types on central sets of samples
  - Human Genome Structural Variation Consortium

# Genomic Community Resources: Renewal of Program Announcement with Special Review Considerations (PAR)

- Reissue for 3 years; 3 receipt dates per year; U24
- Innovation defined broadly (e.g., accept new data types, accelerate annotation)
- Needs assessment and ongoing community outreach
- Resource maintenance
- Findable, Accessible, Interoperable, Reusable (FAIR)
- Service and training

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# Genomic Community Resources (1/2)

Initiative	PI	Title
<b>No Specific Initiative</b>	Kent	The UCSC Genome Browser
	Birney	The Nomenclature of Human and Vertebrate Genes
	Stein	Reactome: An Open Knowledgebase of Human Pathways
	Morgan	Bioconductor: An Open Computing Resource for Genomics
	Taylor	Democratization of Data Analysis in Life Sciences Through Galaxy
	Hamosh	Online Mendelian Inheritance in Man (OMIM)
	Gygi	Systematic Exploration of the Human Interactome
	Hamilton	Genomic Resource Grant for the PhenX Toolkit - expansion and sustainability
	Flicek	GENCODE: comprehensive genome annotation for human and mouse
	Waterston	Creating Comprehensive Maps of Worm and Fly Transcription Factor Binding Sites
	Lee	Identifying and Characterizing the Full Spectrum of Haplotype-resolved Structural Variation in Human Genomes
	Bateman	UniProt: A centralized protein sequence and function resource
	Parkinson	Establishing the GWAS Catalog as a resource for large-scale association studies
	Schriml	The Disease Ontology Project: mechanistic profiles of human disease for biomedical and clinical research
	Resch	Sample Repository for Human Genetic Research
Cherry	RegulomeDB: A Resource for the Human Regulome	
Ardlie	A portal and integrative collaborative analysis platform for GTEx	

# Genomic Community Resources (2/2)

Initiative	PI	Title
<b>No Specific Initiative</b>	Graveley	A Comprehensive Functional Map of Human Protein-RNA Interactions
	McMillan	Genomic Resources for the Collaborative Cross
	Relling	Clinical Pharmacogenetics Implementation Consortium (CPIC)
	Smit	Dfam: sustainable growth, curation support, and improved quality for mobile element annotation
<b>Model Organism Databases (MODs)</b>	Bult	Mouse Genome Database
	Perrimon	FLYBASE: A DROSOPHILA GENOMIC AND GENETIC DATABASE
	Cherry	Genomic Resource for the Yeast Saccharomyces
	Sternberg	WormBase: a core data resource for C. elegans and other nematodes
	Thomas	Gene Ontology Consortium
	Westerfield	ZFIN: The Zebrafish Model Organism Database
	Sternberg	Alliance Central: A platform for sustainable development of next generation genome knowledgebases
<b>ClinGen</b>	Rehm	Clinical Genome Resource
	Bustamante	Clinical Genome Resource (ClinGen)
	Berg	The Clinical Genome Resource - Expert Curation and EHR Integration