

Objectives of major genomic medicine programs related to implementation of genomic medicine.

Objectives Related to Genomic Medicine Implementation	Focus Programs								Related Programs										
	UDN	NSIGHT	CSER	eMERGE	IGNITE	ClinGen	GM Mtgs	G2MC	AFMS	CMG	CPIC	GA4GH	GAPH	GTEx	IOM	ISCC	LSAC	PAGE	PhenX
Improve genomic diagnostic methods	XX	X	X							X									
Facilitate research in undiagnosed and/or Mendelian diseases	XX	X	X							X				X					
Investigate the use of genomic data in newborn care		X																	
Research ethical/legal/social issues in genome sequencing		XX	X	X											X				
Interpret sequence data in variety of clinical/publ hlth contexts		XX	X	X															
Integrate genomic data into patient care	X	X	X	X	XX				X						X				
Incorporate actionable variants into EMR, develop CDS	X	X	X	X	XX				X						X				
Educate clinicians and patients on genomics in clinical care			X	X	X	X		X	X		X				X	X			X
Develop electronic phenotypes				X															X
Identify variants related to complex traits	X		X	X									X				X	X	
Characterize pharmacogenetic variants and use in care				X	X						X								
Assess outcomes of using genomic information in clinical care		X	X	X	XX				X				X						
Assess penetrance of potentially actionable variants				X															
Translate implementation outside highly specialized centers	X		X		XX	X													
Define and share processes of implementation, sustainability	XX	X	X	X	XX		X	X							X				
Share genotype/phenotype info through open databases	X	X				X						X							
Standardize clinical annotation and interpretation			X			XX													X
Improve understanding of variation in diverse populations			X	X		X								X				X	
Assess actionability of genes and variants for clinical use		X				XX					X								
Identify, address barriers to genomic medicine implementation		X	X	X			X	X	X										
Promote interaction and collaboration, reduce duplication	X		X	X		X	X	X		X		X			X	X		X	
Serve as clearinghouse, knowledge base for genomic medicine						XX		X			X								
Use genomics to enable new drug development													X		X				
Create genomics-enabled learning health care systems			X	X	X										X				
Develop evidence base for clinical use of novel diagnostics													X						
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