Preparing the bioethics research workforce: Challenges and opportunities

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Overview

Describe current bioethics research training opportunities

Share a conceptual model that illustrates the diversity of bioethics research methods

Offer an example of bioethics training opportunities in a multidisciplinary study







Key Training Opportunities for the Bioethics Research Workforce

Career stage	Programs	Number
Post Doctoral Training	FellowshipsNIH T32 and F32	17 Fellowships (bioethicsdirector.net)
Early Career Faculty	NIH Career Development: K mechanism	Unknown
Mid Career Faculty	Greenwall Foundation Faculty Scholars Program	56 Scholars since 2003 (greenwall.org)

Challenges

- Topical emphasis in Genomics and Neuro-ethics(NIH) and Palliative Care (Foundation)
- Limited options for JDs at NIH (only NHGRI)
- No NIH "RCD category" for **bioethics** to track awards







Association of Bioethics Program Directors "snapshot" of postdoctoral trainees: 41 trainees at 25 programs

Degree	28 PhD
	2 PhD/JD
	3 JD
	7 MD

Focus	18 Research
	9 Research and Clinical
	13 Clinical
Funding	10 NIH
	25 Institutional
	6 Other







Association of Bioethics Program Directors "snapshot" of postdoctoral trainees: 41 trainees at 25 programs

Gender	29 Female
	10 Male

Race/ethnicity	31 White
	3 Hispanic/Latinx
	3 Asian
	2 Black or African American
	1 American Indian or Alaska Native
	1 Native Hawaiian or other Pacific Islander







Developing Bioethics Research Objectives

Question Type →	Descriptive		Prescriptive	
Method				
Conceptual				
Empirical				
Qualitative				
Quantitative				
Consensus/Engagement				
Question Stage →	Hypothesis generating	Hypothesis Testing	Hypothesis generating	Hypothesis Testing

Mathews DJH, Hester DM, Kahn J, McGuire A, McKinney R, Meador K, Philpott-Jones S, Youngner S, Wilfond BS. <u>A conceptual model for the translation of bioethics research and scholarship</u>. *Hastings Center Report*. 2016; 46: 34-39.

Developing Bioethics Research Objectives

Question Type →	Descriptive		Prescriptive	
Method				
Conceptual				X
Empirical				
Qualitative		X		
Quantitative	Х			
Consensus/Engagement			X	
Question Stage →	Hypothesis generating	Hypothesis Testing	Hypothesis generating	Hypothesis Testing

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Research Team

70 people across 10 institutions, including disciplines of genetic epidemiology, medical genetics, genetic counseling, health communications, health informatics, economics, anthropology, biostatistics, and bioethics

Objective

Evaluate interventions to increase genetic testing access for hereditary cancer syndromes in low income, low literacy, and minority populations



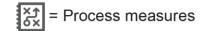


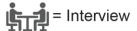
Interventions to improve access

Process	Intervention	Evaluation Method(s)
Identify individual	1. Outreach via email/text	×5×
Calle at family, biotom,	Online standardized patient-facing tool	© Hi
Collect family history	3. Ask about limited family information	XX
Assess risk	Online automated risk assessment	×5×
	5. Online pretest education and consent	₩ ##
Education, consent & select test	6. Decision aid for secondary findings	⋈
	7. Preselect clinical exome test	
Sample collection	8. Self collection of saliva at home	© X
	9. Letter for some negative results	\$ aa ■
Results disclosure	10. Phone counseling	\$ rå ■
	11. Modified genetic counseling	Ø hi 🗉
	12. Training for interpreters	© i ii ■
Downstream care		© Hi











CHARM training awards and supplements

Stephanie Kraft JD (Seattle Children's) K01

 Respect for Persons in Genomic Research Enrollment with Diverse **Populations**



Sarah Knerr PhD (UW Public Health) K08

 Population Management for Hereditary Cancer Prevention within a Learning Health System



Jessica Hunter PhD (Kaiser) Sexual Minority supplement

 Family Communication among Sexual Minorities in the Context of Hereditary Cancer Syndromes



Kate Mittendorf PhD (Kaiser) Diversity supplement

 Evaluating the Impact of a Literacy Focused Risk Assessment Tool for Hereditary Cancer Syndromes in Diverse Populations



Amanda Freed MD (UW Genetics) Administrative supplement

A Randomized Trial of a Decision Aid for Selection of Secondary Findings





