

Purpose & Structure

- Explore, within an active clinical setting, the application of genomic sequence data to the care of patients.
 - 1. Generation of genomic sequence data,
 - 2. Interpretation and translation of data for the physician
 - 3. Communication to the patient
- Three (3) Project Teams per Site
 - 1. Practice: clinical setting being studied and what medical outcomes measured
 - 2. Lab: sequencing and reporting of genome-scale results to clinicians/EMR
 - 3. ELSI: ethical and psychosocial implications of bringing broad genomic data into the clinic

Plon: Overview of CSER, Fall 2012





The Big Questions

- What are the best practices in moving whole genome sequencing, using Next Generation technologies, from medical science to the clinical practice?
- What are the patient characteristics that signal potential utility (or lack thereof) for applying genome-scale sequencing?
- What are the best approaches to analyzing data?
- Are there special considerations in different populations?
- How should relevant information be best represented in the EMR?
- What criteria are most useful in guiding which results should be returned (and how) to the patient and physician?
- How should we deal with the plethora of highly heterogeneous "nontarget" data generated when performing sequencing?

Evans: Overview of CSER, Fall 2013 and NHGRI staff



Working Groups & Steering Committees	Leadership	
CSER Steering Committee	Gail Jarvik	
CSER Coordinating Center	Gail Jarvik	Lucia Hindorff
ELSI Steering Committee	Barbara Koenig	Gail Henderson
Actionable Variants & ROR	Wendy Chung	
Electronic Medical Records	Brian Shirts	
Genetic Counselors	Sarah Scollon	Julia Wynn
Informed Consent & Governance	Paul Appelbaum	Joon Ho-Yu
Pediatrics	Kyle Brothers	Ben Wilfond
Outcomes & Measures	Stacy Gray	David Veenstra
Sequencing Standards	Bradford Powell	Will Salerno
Practitioner Education	Sharon Plon	Kelly East

As of 01/05/2017









Full Logo

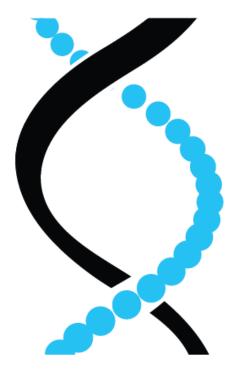


Clinical Sequencing Exploratory Research

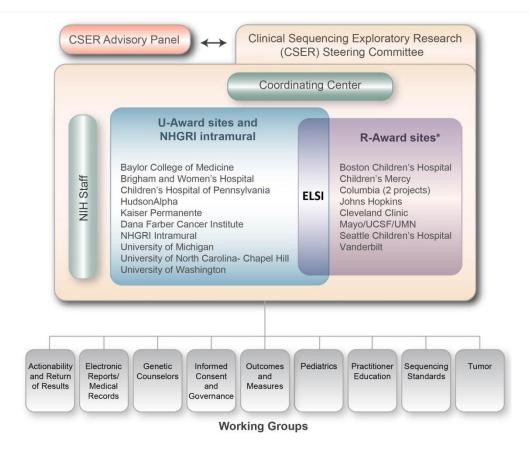
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* Grants funded under RFA-HG-11-003 and RFA-HG-11-004 have ended but the investigators on those grants continue to participate in Consortium activities. Along with ELSI investigators on the U-grants, they meet regularly to discuss ELSI issues relevant to CSER.



CSER Site (U-Award)

Baylor College of Medicine
Brigham & Women's Hospital
Children's Hospital of Philadelphia
Dana-Farber Cancer Institute
HudsonAlpha Institute

Kaiser Permanente
University of Michigan
University of North Carolina
University of Washington
ClinSeq (NHGRI Intramural)

Patient Focus

WES in tumor/germline childhood cancers
WGS in adults, healthy and w. cardiomyopathy
WES/WGS in children w. pediatric disease
WES in tumor/germline in lung, colorectal cancers
WES in children with intellectual, developmental
disability
WGS in preconception carrier screening
WES in adults & children with advanced rare cancer
WES in adults & children with genetic disease
WES in adults with colorectal cancer

WGS in healthy adults and adults with heart disease

Evans: Overview of CSER, Fall 2013



CSER Site (U-Award)	PI(s)
Baylor College of Medicine	Sharon Plon & Will Parsons
Brigham & Women's Hospital	Robert Green
Children's Hospital of Philadelphia	lan Krantz
Dana-Farber Cancer Institute	Pasi Janne & Eliezer van Allen
HudsonAlpha Institute	Greg Cooper
Kaiser Permanente	Katrina Goddard & Ben Wilfond
University of Michigan	Arul Chinnaiyan, Kenneth Pienta, Scott Roberts
University of North Carolina	Jim Evans, Jonathan Berg & Gail Henderson
University of Washington	Gail Jarvik
ClinSeq (NHGRI Intramural)	Leslie Biesecker
Coordinating Center (UW)	Gail Jarvik, Wylie Burke, Debbie Nickerson, & Peter Tarczy-Hornoch



CSER Site (R-Award)	PI(s)
Boston Children's Hospital	Ingrid Holm
Columbia University	Paul Appelbaum
Columbia University	Wendy Chung
Children's Mercy Hospital	Jeremy Garrett
Johns Hopkins University	Michelle Lewis
Mayo Clinic	Rich Sharp
Seattle Children's Hospital	Holly Tabor
UC - San Francisco, Mayo College of Medicine, & University of Minnesota	Barbara Koenig, Gloria Peterson, & Susan Wolf
Vanderbilt University & McGill University	Ellen Clayton & Bartha Knoppers
Coordinating Center (UW)	Gail Jarvik, Wylie Burke, Debbie Nickerson, & Peter Tarczy-Hornoch

