Kyle Brothers, MD, PhD

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Research

Division of Pediatric Clinical and Translational Research 231 East Chestnut Street, N-97

Louisville, Kentucky 40202

Clinical

UofL Pediatrics – Downtown 411 East Chestnut Street Louisville, Kentucky 40202

EDUCATION

Aug 1996 - Jun 2000 Bachelor of Science, Magna Cum Laude

Centre College

Major/Focus: Religion, Biochemistry and Molecular Biology

Danville, Kentucky

Aug 2000 - Jun 2004 Doctor of Medicine, *Magna Cum Laude*

University of Louisville School of Medicine

Louisville, Kentucky

Jul 2004 - Jun 2007 Pediatric Intern/Resident

Vanderbilt Children's Hospital

Nashville, Tennessee

Jul 2007 - Jun 2008 Chief Resident in Pediatrics

Vanderbilt Children's Hospital

Nashville, Tennessee

Aug 2008 - May 2015 Doctor of Philosophy

Vanderbilt University Graduate Department of Religion

Major/Focus: Program in Ethics and Society

Nashville, Tennessee

ACADEMIC APPOINTMENTS

Jul 2007 - Jun 2008 Clinical Instructor

Department of Emergency Medicine Vanderbilt University School of Medicine

Nashville, Tennessee

Jul 2008 - Jun 2012 Clinical Instructor

Department of Pediatrics

Vanderbilt University School of Medicine

Nashville, Tennessee

Jul 2008 - Jun 2012 Instructor

Center for Biomedical Ethics and Society Vanderbilt University School of Medicine

Nashville, Tennessee

Jul 2010 - Jun 2012 Adjunct Professor

Law School

Vanderbilt University Nashville, Tennessee Jul 2012 - Jun 2017 Assistant Professor

Department of Pediatrics

University of Louisville School of Medicine

Louisville, Kentucky

Jul 2012 - Jun 2018 Adjunct Assistant Professor

Department of Pediatrics

Vanderbilt University School of Medicine

Nashville, Tennessee

Jul 2012 - Present Affiliated Faculty Member

Institute for Bioethics, Health Policy, and Law University of Louisville School of Medicine

Louisville, Kentucky

Oct 2012 - Jul 2016 Associate

Department of Family and Geriatric Medicine University of Louisville School of Medicine

Louisville, Kentucky

Jul 2017 - Present Associate Professor

Pediatrics

University of Louisville School of Medicine

Louisville, Kentucky

Apr 2018 - Present Endowed Chair of Pediatric Clinical and Translational Research

Pediatrics

University of Louisville School of Medicine

Louisville, Kentucky

Sep 2019 - Present Chief, Division of Pediatric Clinical and Translational Research

Pediatrics

University of Louisville School of Medicine

Louisville, Kentucky

Jul 2021 - Present Chief Scientific Officer

Norton Children's Research Institute, Affiliated with the University of Louisville

Norton Healthcare / University of Louisville

Louisville, Kentucky

CERTIFICATION AND LICENSURE

Jun 2002 - Jun 2004 Advanced Cardiac Life Support

American Heart Association

Jul 2002 - Present Basic Life Support for Healthcare Providers

American Heart Association Expiration Date: Nov 2019

Renewed continuously, most recently in November 2017

Jun 2004 - Jun 2008 Neonatal Resuscitation Program

American Academy of Pediatrics

Jun 2004 - Oct 2012 Pediatric Advanced Life Support

American Heart Association

Renewed most recently in June 2010

Jun 2007 - Apr 2014 Medical License

State Medical Board of Tennessee License Number: MD0000042526

Oct 2008 - Present Board-Certified Pediatrician

American Board of Pediatrics Expiration Date: Dec 2022

May 2012 - Present Motivational Interviewing

Training Course led by Ken Resnicow

Jun 2012 - Present Medical License

Kentucky Board of Medical Licensure

License Number: 45218

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

Jun 2004 - Present Fellow, American Academy of Pediatrics

Sections: Section on Bioethics

Jun 2010 - Apr 2014 Member, American Medical Association

Jun 2010 - Present Member, American Society of Bioethics and Humanities

Nov 2015 - Present Member, Society for Pediatric Research

Jun 2016 - Present Member, American Society of Human Genetics

HONORS AND AWARDS

May 2000 Inductee, Phi Beta Kappa

Jun 2002 Second Place Winner, John Conley Ethics Essay Contest

Jun 2004 Awardee, Billy F. Andrews, M.D. Scholarship for Pediatrics

Jun 2004 Inductee, Alpha Omega Alpha Medical Honors Society

Jun 2006 First Place Winner, AAP Section on Bioethics Essay Contest

Apr 2011 Scholars Abstract Award, 2011 Clinical and Translational Research and Education

Meeting

Apr 2014 Faculty Peer Clinician-Teacher Excellence Award for New Faculty, Department of

Pediatrics, University of Louisville School of Medicine

Jun 2015 Faculty Peer Clinician-Teacher Excellence Award for Mid-Career Faculty, Department of

Pediatrics, University of Louisville School of Medicine

Jun 2016 Faculty Peer Clinician-Teacher Excellence Award for Mid-Career Faculty, Department of

Pediatrics, University of Louisville School of Medicine

Apr 2018 Mid-Career Faculty Award, Department of Pediatrics, University of Louisville School of

Medicine

COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

University (Intramural):

<u>University (Intramural):</u>		
Jun 2004 - Jun 2008	Member, Pediatric Primary Care / Continuity Clinic Committee Vanderbilt Children's Hospital	
Jul 2004 - Jul 2008	Member, Pediatric Residency Program Curriculum Committee Vanderbilt Children's Hospital	
Jul 2007 - Jul 2008	Member, Hospital Pharmacy and Therapeutics Committee Vanderbilt Children's Hospital	
Jul 2007 - Jul 2008	Member, Hospital Process Management and Improvement Committee Vanderbilt Children's Hospital	
Jul 2008 - Dec 2008	Member, Medical Center Ethics Plan for Avian Flu Pandemic Committee Vanderbilt University Medical Center	
Jul 2008 - Jul 2012	Member, Medical Center Ethics Committee Vanderbilt University Medical Center	
Jul 2009 - Jul 2012	Ethics Reviewer for Study Proposals, BioVU Biobank Vanderbilt University School of Medicine	
Sep 2012	Poster Judge, Research!Louisville Event University of Louisville	
Mar 2013 - Present	Member, Pediatric Pharmacology Symposium Planning Committee Department of Pediatrics, University of Louisville	
Oct 2014	Member, Research Oversight Committee for Dr. David Lohr University of Louisville School of Medicine	
Feb 2015 - Present	Member, Faculty Development Committee Department of Pediatrics, University of Louisville School of Medicine	
May 2018 - Aug 2019	Member, Committee for Inclusive Excellence Department of Pediatrics, University of Louisville School of Medicine	
Nov 2018 - Present	Member, Pediatric Innovation and Research Advisory Team Department of Pediatrics, University of Louisville School of Medicine	
Non-University (Extramural):		
Jul 2008 - Nov 2011	Member, Consent and Community Consultation Committee eMERGE (Electronic Medical Records and Genomics) Consortium	
Jul 2008 - Nov 2011	Member, Return of Results Working Group eMERGE (Electronic Medical Records and Genomics) Consortium	

Jul 2008 - Nov 2011	Member, Return of Results Oversight Committee eMERGE (Electronic Medical Records and Genomics) Consortium
Nov 2011 - Jul 2015	Member, Workgroup for Consent, Education, Regulation, and Consultation eMERGE-2 (Electronic Medical Records and Genomics) Consortium
Nov 2011 - Jul 2015	Member, Workgroup for Actionable Variants eMERGE-2 (Electronic Medical Records and Genomics) Consortium
Sep 2012 - Present	Member, Hospital Ethics Committee Kosair Children's Hospital, Norton Children's Hospital
Dec 2012 - Apr 2019	Member, BioVU Ethics Advisory Board Vanderbilt University Medical Center
Jan 2013 - Present	Co-Chair, Pediatric Bioethics Day Planning Committee Norton Children's Hospital
Jun 2013 - Dec 2013	Member, Pediatric Working Group CSER (Clinical Sequencing Exploratory Research) Consortium
Jun 2013 - May 2017	Member, Actionable Results/Return of Results Workgroup CSER (Clinical Sequencing Exploratory Research) Consortium
Jun 2013 - May 2017	Member, Outcomes and Measures Workgroup CSER (Clinical Sequencing Exploratory Research) Consortium
Jun 2013 - May 2017	Member, Qualitative Methods Workgroup CSER (Clinical Sequencing Exploratory Research) Consortium
Jan 2014 - May 2017	Co-Chair, Pediatric Working Group CSER (Clinical Sequencing Exploratory Research) Consortium
Aug 2014 - Mar 2019	Member, Ethics Advisory Council for MyCode Community Health Initiative Geisinger Health System
Jun 2015 - Present	Core Reviewer and Ad-Hoc Chair, Societal and Ethical Issues in Research (SEIR) Study Section National Institutes of Health
Jan 2017 - Present	Member, Executive Committee AAP Section on Bioethics
Feb 2017 - Dec 2017	Member, Advisory Board for Synergistic Health Data Access for Research and Care- Innovation and Translation (share-it!) Consortium University Medical Centers of Hamburg, Greifswald, Dresden, Kiel, and Lübeck
Feb 2017 - Oct 2019	Member, Social Issues Committee American Society of Human Genetics
Mar 2017 - Present	Chair, Hospital Ethics Committee Norton Children's Hospital
Jun 2017 - Present	Ad-hoc Reviewer, Special Emphasis Panel on BRAIN Initiative Neuroethics Projects National Institute of Mental Health (NIMH)

Aug 2017 - Present Member, Kentucky Newborn Screening Advisory Committee

Kentucky Department of Public Health

Nov 2017 - Present Program Consultant, Gabriella Miller Kids First Pediatric Research Program

National Institutes of Health Common Fund

Dec 2017 - Present Member, Cleveland Institute for Computational Biology External Advisory Committee

Case Western Reserve University

Mar 2018 Ad-hoc Reviewer, Special Emphasis Panel on Centers for Excellence in ELSI Research

National Institutes of Health

Aug 2018 - Nov 2019 Co-Chair, ELSI and Diversity Working Group

CSER2 (Clinical Sequencing Evidence-Generating Research) Consortium

Aug 2018 - Present Member, Observational Study Monitoring Board

Adolescent Brain Cognitive Development (ABCD) Study, National Institute on Drug

Abuse (NIDA)

Aug 2018 - Present Member, External Advisory Board

Adolescent Brain Cognitive Development (ABCD) Study, National Institute on Drug

Abuse (NIDA)

Apr 2019 - Present Member, Advisory Committee on Heritable Disorders in Newborns and Children

Human Resources and Services Administration (HRSA)

Jul 2019 - Sep 2020 Co-Chair, Genomic Medicine Implementation Working Group

PhenX Toolkit

Nov 2019 - Present Co-Chair, Professional Practice and Social Issues Committee

American Society of Human Genetics (ASHG)

EDUCATIONAL ACTIVITIES

Nursing and Allied Health Students:

Jul 2010 - Jun 2012 Workshop Leader

Ethics and Palliative Care in Pediatric Nursing Care

Pediatric Nurse Residency Program Vanderbilt Children's Hospital

Aug 2015 Guest Speaker and Small Group Leader

2015 Book in Common - "The Immortal Life of Henrietta Lacks"

University of Louisville School of Dentistry

Nursing and Allied Health Professionals:

Oct 2010 Workshop Leader

Ethics Cases in Child Life Practice

Department of Child Life Vanderbilt Children's Hospital

Oct 2013 - Present Guest Lecturer

Ethics Cases in PICU Nursing

Pediatric Intensive Care High-Tech Nursing Training Program

Norton Children's Hospital

Lecture provided on the following dates:

October 1, 2013 October 27, 2014 September 21, 2015 October 24, 2016 November 1, 2017 November 8, 2017 November 12, 2018 October 1, 2020

Jul 2014 - Present Guest Lecturer/Discussion Leader

Ethics Cases in Pediatric Critical Care

Pediatric Critical Care Nursing Lunch and Learn Sessions

Norton Children's Hospital

Lecture provided and/or case discussion led on the following dates (with case themes):

July 7, 2014 (Professional Boundaries)

August 22, 2017 (Is it Medically Relevant or is it Gossip?: Communicating about Parents'

Problem Behaviors)

Oct 2014 Guest Lecturer

Qualitative Methods in Educational Research

Introduction to Research Methods, Certificate in Health Professions Program

University of Louisville

Dec 2015 Guest Lecturer

Professional Ethics in Ebola Care

Ebola Assessment Hospital Staff Training

Kosair Children's Hospital

Jun 2016 Nursing Grand Rounds

Pediatric Ethics

Norton Women's & Kosair Children's Hospital

Dec 2018 - Present Guest Lecturer/Discussion Leader

Ethics Cases in Pediatric Nursing Care Pediatric Nurse Residency Program

Norton Children's Hospital

Sessions led on the following dates:

December 18, 2018

Medical Students:

Oct 2006 Clinical Preceptor

Shade Tree Clinic

Vanderbilt University Medical Center

Jul 2007 - Jun 2008 Lecturer

Chief Resident Lecture Series

Third Year Medical Student Pediatrics Clerkship

Vanderbilt University School of Medicine

Topics:

"Pediatric Fluid Management" "Neonatal Hyperbilirubinemia" "Managing Asthma Urgencies"

"Common Pediatric Gastrointestinal Problems" "Common Pediatric Respiratory Tract Problems"

Jan 2008 - Jun 2008 Course Co-Director

Second Year Medical Student Clinical Pediatrics Elective

Vanderbilt University School of Medicine

Sep 2011 Panelist

Diverse Career Paths in Academia Medical Scientist Training Program Vanderbilt University School of Medicine

Nov 2011 Lecturer

The Immortal Life of Henrietta Lacks: Race and Medical Research

American Medical Association: Medical Student Section

Meharry Medical College

Sep 2012 - Sep 2014 Small Group Leader

Professionalism Small Groups
Introduction to Clinical Medicine 1
University of Louisville School of Medicine

Year (number of small group sessions led): 2012 (1), 2013 (1), 2014 (1)

Oct 2012 - Jan 2017 Guest Lecturer

Ethical Issues in Longitudinal Clinical Care

Longitudinal Ambulatory Rotation

University of Louisville School of Medicine

Lecture provided on the following dates (with lecture topic): October 29, 2012 (Ethics Cases in Longitudinal Clinical Care) February 23, 2016 (Pediatric Obesity and Medical Neglect) January 24, 2017 (Pediatric Obesity and Medical Neglect)

Nov 2012 - Present Core Faculty

Ethics Section

Introduction to Clinical Medicine 2 University of Louisville School of Medicine

Year (number of small group sessions led): 2012 (1), 2013 (4), 2014 (4), 2017 (2), 2018

(2), 2019 (2)

Year (number of lectures provided): 2012 (1), 2013 (3), 2014 (3), 2016 (2), 2017 (3),

2018 (4), 2019 (4), 2020 (3)

Sample lecture titles:

"Working with Parents and Adolescents"
"Balancing Autonomy and Beneficence"
"Laws and Policies in Clinical Ethics"
"Just Distribution of Medical Resources"

"Physician Responsibility and Conscientious Refusal"

"Surrogate Decision-making"

Sep 2013 - Sep 2014 Small Group Leader

Family Medicine Clerkship Small Group Discussions on Ethical Issues in Family

Medicine

Department of Family and Geriatric Medicine University of Louisville School of Medicine

Year (number of small group sessions led): 2013 (1), 2014 (1)

Oct 2013 - Oct 2015 Guest Lecturer

Global Health Ethics

Distinction in Global Health Program University of Louisville School of Medicine

Lecture provided on the following dates (with case themes):

October 17, 2013 (Clinical Cases in the Context of Religious Medical Missions)

November 10, 2014 (Ebola: Professional and Public Health Ethics)
October 20, 2015 (Clinical Ethics Cases in Religious Medical Missions)

Nov 2014 Panelist

Guest Panel on Ebola Epidemic

Schools of Medicine, Nursing, and Public Health

University of Louisville

Mar 2016 Guest Lecturer

Saying "No" in Clinical Practice

Second Year Student Section on Human Sexuality

University of Louisville School of Medicine

Sep 2016 - Present Guest Lecturer

Research Ethics

Biostatistics/Evidence-Based Medicine Course University of Louisville School of Medicine

Lectures given the following years: 2016, 2017, 2018, 2019, 2020

Law and Graduate Students:

Jan 2010 - Jun 2010 Teaching Assistant

Ethics in Theological Perspectives

Vanderbilt Divinity School

This course for Masters of Theological Studies and Masters of Divinity students explores a number of religious and philosophical ethical traditions, with a focus on application to religious or professional practices.

Jan 2011 - Jun 2011 Co-Instructor

Ethics, Law, and Medicine Vanderbilt Law School

This cross-listed interdisciplinary course explores a variety of topics and problems at the intersection of ethical, legal, and medical concerns in the modern world of health care.

Jan 2012 - Jun 2012 Teaching Assistant

Theology and Health in a Therapeutic Culture

Vanderbilt Divinity School

This course for Masters of Theological Studies and Masters of Divinity students explores the theological and ethical implications of the cultural shift toward "therapy" as opposed

to "care".

Jan 2012 - Jun 2012 Co-Instructor

Genetics, Law, and Medicine Vanderbilt Law School

This cross-listed interdisciplinary course explores a variety of topics and problems at the intersection of human genetics, medical practice, and the law. The course included law

students, medical students, and graduate students in human genetics.

Oct 2012 - Mar 2016 Guest Lecturer

Newborn Screening in the Digital Age

Legal and Ethical Aspects of Public Health Course

University of Louisville School of Public Health and Information Sciences

Lecture provided on the following dates:

October 3, 2012 October 23, 2013 October 22, 2014 March 2, 2016

Mar 2013 - Present Guest Lecturer

Pediatric Ethics Bioethics and the Law

University of Louisville Louis D. Brandeis School of Law

Lecture provided on the following dates (with case themes):

March 4, 2013 (Pediatric End of Life)

March 3, 2014 (Children with Severe Neurological Injury) November 1, 2016 (Children with Severe Neurological Injury)

Mar 2013 - Present

Guest Lecturer

Ethical Issues in Research with Children Ethical Conduct of Health Research

University of Louisville School of Public Health and Information Sciences

Lecture provided on the following dates:

March 6, 2013 March 26, 2014 February 19, 2015 March 28, 2018 March 2, 2020

Nov 2014 - Present

Guest Lecturer

Newborn Screening and Public Policy

Genomics and the Law

University of Louisville Louis D. Brandeis School of Law

Lecture provided on the following dates:

November 17, 2014

Apr 2019

Committee Member

Dissertation Committee for Tara McKinley

Department of Education and Human Development

University of Louisville

Residents:

Jul 2007 - Jun 2008 Presenter

Morning Conference Series Pediatrics Residency Program Vanderbilt Children's Hospital

Jul 2008 - Jun 2010

Clinical Preceptor

Children's Hospital Pediatric Primary Care Clinic

Vanderbilt Children's Hospital

4 hours twice monthly

Jul 2008 - Jun 2012

Clinical Preceptor

Pediatric Weight Management Clinic Vanderbilt Children's Hospital

Jul 2009 - Jun 2012

Lecturer

Core Curriculum Lecture Series Pediatrics Residency Program Vanderbilt Children's Hospital

Once annually Topics:

"Pediatric Clinical Ethics Cases: Caring for Neurologically Devastated Children"

"Clinical Ethics Consultation: What It Is and How to Get One" "Choose Your Own Outcome: Provider-Patient Conflict"

Oct 2010

Lecturer

Pediatric Neurology Clinical Ethics Cases: The Role of Prognostication in Caring for

Neurologically Devastated Children

Pediatric Neurology Resident Core Curriculum Lecture Series

Vanderbilt Children's Hospital

Jul 2011 - Jun 2012 Lecturer

The Clinical Ethics of Personalized Medicine

Internal Medicine Residency Ethics and Professionalism Series

Vanderbilt University Medical Center

Lecture given once annually

Jul 2012 - Jun 2014 Clinical Preceptor

UofL Pediatrics Broadway

University of Louisville School of Medicine

8 hours weekly

Nov 2013 - Present Guest Lecturer

Global Health Ethics: Pediatric Cases in Medical Missions Global Child Health Series, Pediatrics Residency Program

Norton Children's Hospital

Lecture or case discussion session provided on the following dates:

November 21, 2013 February 3, 2021 February 10, 2021

Jan 2014 - Present Presenter

Morning Report

Pediatrics Residency Program Norton Children's Hospital

Presentation provided on the following dates (with case themes): January 15, 2014 (Adolescent Consent and Confidentiality)

September 24, 2014 (Brain Death)

Mar 2014 Guest Lecturer

Family Medicine Residency Core Lecture Series

Family Medicine Residency Program University of Louisville School of Medicine

Lecture provided on the following dates (with case themes):

May 29, 2014 (Adolescent Consent and Confidentiality for Family Physicians)

Jul 2014 - Present Clinical Preceptor

University of Louisville Pediatrics - Downtown University of Louisville School of Medicine

8 hours weekly

Dec 2014 - Present Guest Lecturer

Pediatrics Residency Core Lecture Series

Pediatrics Residency Program

University of Louisville School of Medicine

Lecture provided on the following dates (with case themes):

December 12, 2014 (Ebola: Professional and Public Health Ethics Issues) August 19, 2016 (Saying No in Clinical Practice: Conscientious Objection) December 20, 2017 (Difficult Cases from Norton Children's Hospital)

May 17, 2019 (Ethical Challenges When CPS is Involved) July 16, 2020 (Professional Challenges During Residency)

Fellows:

Jul 2011 - Jun 2012 Course Co-Director

Pediatric Critical Care Fellows Clinical Ethics Curriculum

Vanderbilt Children's Hospital

Designed 12-session curriculum, co-directed course, and led sessions.

Sessions include:

"Re-Introduction to Clinical Ethics: Beyond the Principles"

"Religious, Philosophical, and Cultural Objections to Medical Interventions"

"Decision-making for Children Dying from Non-accidental Trauma"

Mar 2013 - Present Guest Lecturer

Ethics Cases in Pediatric Subspecialty Medicine

Pediatrics Fellowship Programs

University of Louisville School of Medicine

Lecture provided on the following dates (with case themes):

March 18, 2013 (End of Life Care)

November 13, 2019 (Personal and Professional Boundaries in Pediatric Fellowship

Training)

Apr 2014 - Apr 2015 Guest Lecturer

Pediatric Critical Care Fellows Core Lecture Series

Department of Pediatrics

University of Louisville School of Medicine

Presentation provided on the following dates (with case themes):

April 9, 2014 (Patient care after the decision to withdraw life-sustaining treatment has

been made)

April 20, 2015 (Ethical issues in pediatric brain death)

May 2018 - Present Guest Lecturer

Ethical Challenges in Pediatric Emergency Medicine Pediatric Emergency Medicine Fellowship Program

University of Louisville School of Medicine

Lecture provided on the following dates (with case themes):

May 18, 2018 (Consent and Confidentiality)

Mar 2019 - Present Guest Lecturer

Pediatric Clinical Care Fellows End of Life Curriculum

Department of Pediatrics

University of Louisville School of Medicine

Presentation provided on the following dates (with case themes):

March 6, 2019 (Ethical Issues at the End of Life in Pediatric Critical Care)

Nov 2020 - Present Guest Lecturer

Neonatology Fellows Clinical Ethics Curriculum

Department of Pediatrics

University of Louisville School of Medicine

Presentation provided on the following dates (with case themes): November 10, 2020 (Surrogate decision-making in the NICU)

Physicians:

Oct 2012 Presenter

Consent and Confidentiality of Adolescents in Primary Care

Division of General Pediatrics Scholarly Conference

University of Louisville School of Medicine

Sep 2016 - Present Guest Lecturer

Faculty Development Curriculum

Department of Pediatrics

University of Louisville School of Medicine

Presentation provided on the following dates (with lecture topics): September 9, 2014 (How and When to Use Focus Groups) September 20, 2016 (Working with the Institutional Review Board)

September 20, 2016 (Working with the Institutional Review Board, September 13, 2017 (How to Throw Together a Survey... Or Not)

Jan 2017 - Present Faculty Research Mentor

Esther Knapp, MD, MBe Department of Pediatrics

University of Louisville School of Medicine

Mar 2020 Guest Speaker

Returning Secondary Genomics Findings in Research with Infants

Institutional Review Board University of Louisville

Feb 2021 - Present Guest Lecturer

Research Faculty Development Conference

Department of Pediatrics

University of Louisville School of Medicin

Presentation provided on the following dates (with lecture topics):

February 8, 2021 (Systemic Racism: Refocusing our Lens in Pediatric Research) May 10, 2021 (X Marks the Spot: Putting Scholarly Activity on Your Career Map)

Bioethics Graduate Students:

Jun 2017 Poster Walk Guide

Poster Walk on Biorepository Ethics

Genomics and Society: Expanding the ELSI Universe

Invited by meeting organizers to lead "poster walk." This involved taking learners on a

tour of posters related to our topic and leading discussion on poster findings.

Oct 2020 Guest Lecturer

Research Ethics Journal Club Department of Bioethics

Case Western Reserve University

CLINICAL ACTIVITIES

Jul 2007 - Jun 2012 Attending Physician

Pediatric Emergency Department Vanderbilt Children's Hospital

Provided urgent care 2-6 shifts per month for non-emergent patients presenting to the

Pediatric Emergency Department.

Jul 2008 - Jun 2009 Attending Physician

Children's Hospital Primary Care Clinic

Vanderbilt Children's Hospital

Provided care one half day per week as attending physician seeing primary care and acute care patients in an outpatient pediatric clinic. Care also involved supervision of

pediatric residents and medical students.

Jul 2008 - Jun 2012 Attending Physician

Pediatric Weight Management Clinic Vanderbilt Children's Hospital

Provided care one half day per week, and later two half days per week, as an attending physician providing evaluation and treatment of children with obesity. This involved counseling patients and their parents on healthy eating and activity, motivational interviewing, and evaluation for complications of obesity. Central to this clinical activity was coordination with an interdisciplinary team, including dieticians, physical therapists,

and exercise physiologists.

Jul 2012 - Jun 2014 Attending Physician

University of Louisville Pediatrics - Broadway Clinic

University of Louisville Physicians Group

Provided care two half days per week as attending physician seeing primary care and acute care patients in an outpatient pediatric clinic. Care also involved supervision of pediatric residents and medical students.

Jul 2014 - Feb 2020 Attending Physician

University of Louisville Pediatrics - Downtown

University of Louisville

Provided care as attending physician seeing primary care and acute care patients in an outpatient pediatric clinic. Care also involved supervision of pediatric residents and medical students. Two half days per week July 2014 to July 2019, One half day per

week August 2019 to Present.

Mar 2020 - Present Attending Physician

Norton Children's Medical Group - Novak Center

Norton Children's Medical Group

Provided care as attending physician seeing primary care and acute care patients in an outpatient pediatric clinic. Care also involved supervision of pediatric residents and medical students. One half day per week March 2020 to Present.

GRANTS AND CONTRACTS

GRANTS

Current:

1. Addressing Ethical Challenges in Networked Biorepositories

PI: Kyle Brothers, Aaron Goldenberg

My Role: Co-Principal Investigator (25% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: 1R01HG008988-01

UofL Office of Grants Management Number: OGMB160709

Direct Costs: \$1,436,356 Indirect Costs: \$322,681

Dates: Sep 2016 - Jun 2021

Individual institutions across the country have worked to support research in a wide variety of areas by developing large biorepositories comprised of biospecimens and health data collected from local patients and controls. To address the need of larger sample sizes for increasingly refined analyses, researchers have begun to promote the networking of multiple repositories within or across multiple institutions. This networked biorepository approach makes it possible for researchers to access larger, more diverse sets of data and biospecimens in a way that leverages the research relationships that local institutions have built with their own communities of donors. In order for this approach to be successful, networked biorepositories need to address important ethical, legal, and social challenges. Networked biorepositories are comprised of diverse sets of specimens and data from different institutions, each with their own governance structures and donor needs. For these reasons, they encounter complex issues related to consent and donor permission, privacy and data security, and data access. These novel challenges have not previously been examined in detail, and best practices for addressing these issues through governance and oversight processes are lacking. This study will address these important needs through a rigorous, mixed-methods study of the perspectives and experiences of stakeholders currently engaged in designing, operating, and governing networked biorepositories. It will also aim to develop approaches to consent and donor permission, privacy and data security, data access, governance, and oversight that are most appropriate and effective for a variety of networked biorepository configurations.

2. South-SEQ: DNA Sequencing for Newborn Nurseries in the South

PI: Greg Cooper, Bruce Korf

My Role: Co-investigator (15% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: 2U01HG007301-05

UofL Office of Grants Management Number: CCDB170104

Direct Costs: \$218,442 Indirect Costs: \$117,959

Dates: Aug 2017 - (May 2022)

Whole genome sequencing (WGS) for patients with rare disease has great potential to improve upon outcomes

related to diagnosis, patient well-being, and cost. In this project we bring together a clinical genome center (HudsonAlpha), academic medical centers (University of Alabama at Birmingham, University of Mississippi, and the University of Louisville), and a community hospital (Druid City Hospital) to pursue the following Aims:

Specific Aim 1: Conduct WGS testing on 2,000 newborns with signs suggestive of a genetic disorder being treated at hospitals in which African-American and rural populations are highly represented. From the neonatal intensive care unit (NICU), patients will be ascertained based on findings that would typically prompt medical genetics referral and for which an immediate diagnosis is not otherwise apparent.

Specific Aim 2: Develop culturally adapted interventions that are congruent with stakeholders' attitudes, preferences, and practical needs to increase effectiveness of WGS-informed care.

Specific Aim 3: Compare technology-assisted community-based WGS result delivery by non-genetics providers to formal genetic counseling by genetic counselors.

Specific Aim 4: Evaluate the economic impact of WGS-based testing.

Specific Aim 5: Promote scale-up and uptake of WGS by engaging stakeholders in the interpretation and dissemination of study findings to diverse audiences.

3. Regulation of International Direct-to-Participant Genomic Research

PI: Mark Rothstein

My Role: Co-Investigator (5% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: R01HG009914

Direct Costs: \$446,548 Indirect Costs: \$137,803

Dates: Mar 2018 - (Jan 2022)

New techniques for genomic research are being developed to take advantage of the ability to contact research participants directly, without utilizing physicians, hospitals, or biobanks. Researchers are now able to use the internet to recruit and enroll research participants in genomic studies by using an online application and consent process. Participants send their health records electronically and ship a sample of blood or saliva to the researchers. Although this process has been approved by IRBs for domestic studies, it is unclear whether this process is lawful for international research because of the diverse laws and policies of the countries where the participants reside. This research will study the important, but complex, question of whether international direct-to- participant genomic research is lawful in a sample of 32 countries. It will also consider what steps are necessary to facilitate this efficient, diversity-enhancing research while still protecting the welfare of research participants.

Pending:

1. Utility of Genomic Sequencing in Community Care Contexts

PI: Kyle Brothers, Greg Cooper

My Role: Co-Principal Investigator (25% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funding Mechanism: 1R01HG011598-01

UofL Office of Grants Management Number: OGMB200841

Direct Costs: \$2,593,209 Indirect Costs: \$453,288

Dates: Jul 2021 - (Jun 2025)

Efforts to translate genomic sequencing technologies into clinical care have faced ongoing challenges defining and measuring utility. Evaluation of utility is particularly difficult in the context of efforts to translate genomic sequencing technologies like exome sequencing (ES) and genome sequencing (GS) to the diagnosis of children with undiagnosed genetic conditions, since these conditions are rarely responsive to pharmacological interventions and parents often express a wide variety of reasons for wanting a genomic diagnosis for their child. We hypothesize that previous efforts to identify the clinical utility of ES and GS have missed important dimensions of utility that fall in the "middle ground" between conventional notions of clinical and personal utility. Most of the care and services that improve functioning and quality of life for children with complex genetic conditions occur outside doctors' offices: physical therapy; occupational therapy; speech-language pathology; behavioral intervention and other mental healthcare; and special education services. However, it is unknown whether receiving a genomic diagnosis currently provides utility in these community contexts, and what evidence might be needed to increase this utility. This project will address this gap through a rigorous study of potential and actual utilities that children with undiagnosed genetic conditions might receive in community settings as a result of receiving a genomic diagnosis. The overall aim of this study is to identify (1) community-based utilities currently being realized following genomic diagnosis, (2) perspectives of community-based professionals regarding the potential utility of such diagnoses, and (3) sources of information (including medical professionals, parent support groups, and social media) that might support utility for rare genetic conditions.

Past:

1. Vanderbilt Genome-Electronic Records Project

PI: Dan Roden

My Role: Co-Investigator (10% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: 5-U01-HG004603 UofL Office of Grants Management Number: NA

Expiration Date: Nov 2012 Dates: Sep 2007 - Oct 2011

2. Body and Soul Seminar

PI: Kyle Brothers, Dan Morrison, Trevor Bibler

My Role: Seminar Co-Leader

Granting Agency: Robert Penn Warren Center Graduate Student Led Seminar Series

UofL Office of Grants Management Number: NA

Direct Costs: \$3500 Dates: Jul 2010 - Jul 2011

3. Translating Pharmacogenomic Research to the Clinic: PREDICT Focus Groups Phase 2

PI: Kyle Brothers

Granting Agency: Vanderbilt Institute for Clinical and Translational Research (VICTR)

Funder Grant Number: VR1240

UofL Office of Grants Management Number: NA

Direct Costs: \$10,000 Dates: Nov 2010 - Nov 2012

4. Vanderbilt Genome-Electronic Records Project, eMERGE II

PI: Dan Roden

My Role: Co-Investigator (10% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: U01-HG006378

UofL Office of Grants Management Number: NA

Expiration Date: Nov 2012

Direct Costs: \$2,000,000 Indirect Costs: \$1,089,497

Dates: Nov 2011 - Jun 2012

5. Genomic Diagnosis in Children with Developmental Delay

PI: Richard Myers

My Role: Lead Investigator, Component 3 (40% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: 1UM1HG007301-01

UofL Office of Grants Management Number: OICB130098 Direct Costs: \$5,981,992 Indirect Costs: \$8,990,104

Dates: Jun 2013 - May 2017

6. Social Media, Teen Moms, and PPD

PI: Cynthia Logsdon

My Role: Ethics Advisor, Data Safety and Monitoring Board Member (1% effort)
Granting Agency: National Institutes of Health, National Institute for Nursing Research

Funder Grant Number: 1R15NR013563-01A1

UofL Office of Grants Management Number: OICB121360

Direct Costs: \$299,467 Indirect Costs: \$150,476

Dates: Jun 2013 - May 2015

7. Patient Perspectives on Broad Consent in Biobank Research in the eMERGE Network (eMERGE Coordinating Center)

PI: Jonathan Haines

My Role: Co-Investigator (3% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: 3U01HG006385-03S1

UofL Office of Grants Management Number: OGMB140173

Direct Costs: \$15,010 Indirect Costs: \$3,903

Dates: Aug 2013 - Jul 2015

8. Patient Perspectives on Broad Consent in Biobank Research in the eMERGE Network

PI: Dan Roden

My Role: Co-Investigator (5% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: 3U01HG006378-03S1

UofL Office of Grants Management Number: OGMB140172

Direct Costs: \$15,350 Indirect Costs: \$4,771

Dates: Sep 2013 - Jul 2015

9. Impact of Return of Genomic Results on Health Care Providers

PI: Paul Harris

My Role: Co-investigator (10% effort)

Granting Agency: National Institutes of Health, National Human Genome Research Institute

Funder Grant Number: 6U01HG008701-S Direct Costs: \$25,905 Indirect Costs: \$13,989

Dates: Jul 2016 - May 2017

10. Addressing ELSI Issues in Unregulated Health Research Using Mobile Devices

PI: Mark Rothstein

My Role: Co-Investigator (10% effort)

Granting Agency: National Institutes of Health, National Cancer Institute

Funder Grant Number: R01CA207538

Direct Costs: \$1,809,556 Indirect Costs: \$520,237

Dates: May 2017 - Apr 2020

11. Medication Prescribing to Children Insured by Kentucky Medicaid

PI: Deborah Davis My Role: Co-Investigator

Granting Agency: Cabinet for Health and Family Services, Commonwealth of Kentucky

Expiration Date: Jun 2018 Dates: Jul 2017 - Jun 2018

12. The Kentucky Pediatric Clinical Trials Rural/Urban Partnership

PI: Janice Sullivan and Sara Watson

My Role: Ethics Advisor, Internal Advisory Board Member (0% effort)

Granting Agency: National Institutes of Health, National Institute for Children's Health

Funder Grant Number: 1UG1HD090904-01

Expiration Date: Aug 2020 Direct Costs: \$1,673,259 Dates: Sep 2017 - Aug 2020

Unfunded:

1. Voluntariness, Feasibility, and Costs of an Opt-Out Approach to Biosample Research

PI: Gordon Bernard

My Role: Lead Investigator (5% effort)

Granting Agency: National Institutes of Health, National Center for Advancing Translational Sciences

Funding Mechanism: U24 Mechanism

UofL Office of Grants Management Number: NA

Submission Date: Mar 2012

2. The Era of the Empowered Patient: Ethics, Practice, and Public Policy

PI: Kyle B. Brothers

Granting Agency: Greenwall Foundation

Funding Mechanism: Greenwall Foundation Faculty Scholars Program

UofL Office of Grants Management Number: NA

Direct Costs: \$96,749 Indirect Costs: \$45,874 Submission Date: Jan 2014

EDITORIAL WORK

Jul 2008 - Present	Ad-hoc Reviewer, American Journal of Medical Genetics Manuscripts reviewed during the following years (number reviewed): 2008 (1)
Jan 2010 - Present	Ad-hoc Reviewer, Cancer Epidemiology, Biomarkers, & Prevention Manuscripts reviewed during the following years (number reviewed): 2010 (1)
Jan 2010 - Present	Ad-hoc Reviewer, <i>Pediatrics</i> Manuscripts reviewed during the following years (number reviewed): 2010 (1), 2011 (1), 2013 (1), 2014 (1), 2015 (3), 2016 (4), 2017 (2), 2018 (2), 2019 (3), 2020 (1), 2021 (1)
Jan 2010 - Present	Ad-hoc Reviewer, <i>Science</i> Manuscripts reviewed during the following years (number reviewed): 2010 (1)
Jan 2010 - Present	Ad-hoc Grant Reviewer, Wellcome Trust
Jan 2010 - Present	Ad-hoc Reviewer, American Journal of Bioethics Manuscripts reviewed during the following years (number reviewed): 2010 (1), 2014 (1)
Mar 2012 - Present	Ad-hoc Reviewer, Personalized Medicine Manuscripts reviewed during the following years (number reviewed): 2011 (1), 2012 (2), 2013 (1), 2014 (1)
Dec 2012 - Present	Ad-hoc Reviewer, Genome Medicine Manuscripts reviewed during the following years (number reviewed): 2012 (1), 2014 (2)
Jan 2013 - Present	Ad-hoc Reviewer, Genetics in Medicine Manuscripts reviewed during the following years (number reviewed): 2012 (1), 2013 (1), 2014 (1), 2015 (2), 2016 (3), 2017 (2), 2018 (1), 2019 (2)
Feb 2013 - Present	Ad-hoc Reviewer, BMC Medical Research Methodology Manuscripts reviewed during the following years (number reviewed): 2013 (1), 2020 (1)
Mar 2013 - Present	Ad-hoc Reviewer, AJOB Empirical Bioethics Manuscripts reviewed during the following years (number reviewed): 2013 (1), 2014 (1), 2016 (1), 2018 (1), 2021 (1)
Jan 2014 - Present	Ad-hoc Reviewer, BMC Medical Ethics Manuscripts reviewed during the following years (number reviewed): 2014 (2)
Feb 2014 - Present	Ad-hoc Reviewer, <i>Health Affairs</i> Manuscripts reviewed during the following years (number reviewed): 2014 (1), 2017(1)
Apr 2014 - Present	Ad-hoc Reviewer, <i>Journal of Pediatrics</i> Manuscripts reviewed during the following years (number reviewed): 2014 (1), 2018 (1), 2020 (1)
May 2014 - Present	Ad-hoc Reviewer, Journal of Genetic Counseling Manuscripts reviewed during the following years (number reviewed): 2014 (1)
Jan 2015 - Present	Ad-hoc Reviewer, PLOS One

	Manuscripts reviewed during the following years (number reviewed): 2015 (1)
Feb 2015 - Present	Ad-hoc Reviewer, European Journal of Human Genetics Manuscripts reviewed during the following years (number reviewed): 2015 (1), 2016 (1), 2019 (1), 2020 (1)
Apr 2015 - Present	Ad-hoc Reviewer, Journal of Biorepository Science for Applied Medicine Manuscripts reviewed during the following years (number reviewed): 2015 (1)
May 2015 - Present	Ad-hoc Reviewer, Clinical Genetics Manuscripts reviewed during the following years (number reviewed): 2015 (1), 2017 (1)
Aug 2015 - Present	Ad-hoc Reviewer, Pediatric Blood and Cancer Manuscripts reviewed during the following years (number reviewed): 2015 (1)
Nov 2015 - Present	Ad-hoc Reviewer, Applied and Translational Genomics Manuscripts reviewed during the following years (number reviewed): 2015 (1)
Dec 2015 - Present	Ad-hoc Reviewer, Journal of Law, Medicine, & Ethics
Apr 2016 - Present	Ad-foc Reviewer, The Pharmacogenomics Journal Manuscripts reviewed during the following years (number reviewed): 2016 (1)
Jun 2017 - Present	Ad-hoc Reviewer, <i>Translational Behavioral Medicine</i> Manuscripts reviewed during the following years (number reviewed): 2017 (1)
Jan 2018 - Present	Ad-hoc Reviewer, Journal of Empirical Research on Human Research Ethics Manuscripts reviewed during the following years (number reviewed): 2018 (1), 2019 (1)
Jan 2018 - Present	Ad-hoc Reviewer, IRB: Ethics & Human Research Manuscripts reviewed during the following years (number reviewed): 2018 (1), 2019 (1), 2020 (2)
Jan 2019 - Present	Ad-hoc Reviewer, <i>Public Health Genomics</i> Manuscripts reviewed during the following years (number reviewed): 2019 (1)
Feb 2019 - Present	Ad-hoc Grant Reviewer, Netherlands Organisation for Health Research and Development
Mar 2019 - Present	Ad-hoc Reviewer, Journal of Adolescent Health Manuscripts reviewed during the following years (number reviewed): 2019 (1)
Mar 2020 - Present	Ad-hoc Reviewer, <i>Trends in Genetics</i> Manuscripts reviewed during the following years (number reviewed): 2020 (1)
Mar 2020 - Present	Ad-hoc Reviewer, Patient Education and Counseling Manuscripts reviewed during the following years (number reviewed): 2020 (1)
May 2020 - Present	Ethical, Legal, and Social Issues Section Editor, Genetics in Medicine
Sep 2020 - Present	Ad-hoc Reviewer, Human Genetics and Genomics Advances Manuscripts reviewed during the following years (number reviewed): 2020 (1)
Dec 2020 - Present	Ad-hoc Reviewer, Biopreservation and Biobanking Manuscripts reviewed during the following years (number reviewed): 2020 (1)

May 2021 - Present

Ad-hoc Reviewer, Journal of Medicine and Philosophy Manuscripts reviewed during the following years (number reviewed): 2021 (1)

ABSTRACTS AND PRESENTATIONS

ORAL PRESENTATIONS

National/International Presentations:

1. Plenary Presentation, American Society for Human Genetics (*Invited Talk)

Symposium/Panel Title: Presidential Symposium: Genetic Exceptionalism - From Its Beginning to Its End?

Presentation Title: The Everyday Reality of Genetics in the Clinic: It's Just Medicine

Authors: Brothers KB, Garrison N, Lynch J, Goldenberg A

Role: Presenting Author Houston, Texas

2. Topic Symposium, Pediatric Academic Societies

Symposium/Panel Title: Ethical Challenges in Pediatric Biobanks: Balancing Risks and Benefits

Presentation Title: Designing and Implementing a Large-Scale De-Identified DNA Biobank: The Vanderbilt

Experience

Role: Presenting Author
May 2009 Baltimore, Maryland

3. Pediatric Pharmacogenomics and Personalized Medicine Symposium (*Invited Talk)

Presentation Title: Pediatric Biobanking Initiatives: Ethical Considerations and Legal Requirements

Role: Presenting Author

Apr 2010 Kansas City, Missouri

4. Tercer Simposio Internacional de Bioética (*Invited Talk)

Presentation Title: Biobanks and Research Databases: Beyond the Refrigerator

Role: Presenting Author

Aug 2010 San Jose, Costa Rica

5. Panel Presentation, American Society of Bioethics and Humanities

Symposium/Panel Title: Too Young to Understand the Risks? Old Enough to Reap the Results?

Presentation Title: Pediatric BioVU: Parent Perspectives on an Opt-Out Biobank

Role: Presenting Author

Oct 2010 San Diego, California

6. Panel Presentation, Genomics and Public Health Conference

Symposium/Panel Title: Genomic Testing [of] Minors: Implications for Primary Prevention

Presentation Title: Peds BioVU: Including Pediatric Samples in a Non-Human Subjects Biobank

Role: Presenting Author

Dec 2010 Bethesda, Maryland

7. Alfried Krupp Wissenschaftskolleg Greifswald (*Invited Talk)

Presentation Title: BioVU: Research Ethics in the Design of a Biorepository

Role: Presenting Author

Jan 2011 Greifswald, Germany

8. Panel Presentation, 2011 Congress of the Ethical, Legal and Social Implications Research Program

Symposium/Panel Title: Pediatric Biobanks: Not Just Biobanks for Little Adults

Presentation Title: Pediatric Biobanks: An Alternative Governance Model

Role: Presenting Author and *Organizing Presenter

Apr 2011 Chapel Hill, North Carolina

9. Panel Presentation, Pediatric Academic Societies

Symposium/Panel Title: Ethical Controversies in Pediatric Biobanks Presentation Title: Pediatric Biobanks: An Alternative Governance Model

Role: Presenting Author May 2011 Denver, Colorado

10. State of the Art Presentation, CTSA Consortium Child Health Oversight Committee (*Invited Talk)

Presentation Title: BioVU: Using Biorepositories to Answer Research Questions

Authors: Brothers KB, Van Driest SL

Role: Presenting Author

Apr 2012 Boston, Massachusetts

11. Platform Presentation, American Society for Human Genetics

Presentation Title: Genome-wide association study of vancomycin pharmacokinetics using a de-identified

biorepository

Authors: Van Driest SL, McGregor TL, Lu Z, Vear S, Creech CB, Kannankeril PJ, Brothers KB, Potts A, Bowton E,

Delaney JT, Bradford Y, Wilson S, Olson L, Crawford DC, Saville B, Roden DM, Denny JC

Role: Non-Presenting Author

Nov 2012 San Francisco, California

12. Panel Presentation, Why We Can't Wait: Conference to Eliminate Health Disparities in Genomic Medicine (*Invited Talk)

Symposium/Panel Title: Health IT, Privacy and Genomics

Presentation Title: Human Non-Subjects Biobanking: Privacy, Perspectives, and Personalized Medicine for Everyone

Role: Presenting Author

May 2013 San Francisco, California

13. Guest Speaker, National Cancer Institute (*Invited Talk)

Symposium/Panel Title: Ethical and Regulatory Issues in Cancer Research (ENRICH) Forum Presentation Title: Different Headaches: The Human Non-Subjects Approach to Biobanking

Role: Presenting Author

Jan 2014 Shady Grove, Maryland

14. Expert Presentation and Workshop Contributor, Ethical and legal aspects of molecular genetic incidental findings in Germany, Austria, and Switzerland (*Invited Talk)

Presentation Title: The Challenges of Managing Incidental Findings: The U.S. Perspective

Role: Presenting Author

Mar 2014 Greifswald, Germany

15. Panel Presentation, Clinical Sequencing Exploratory Research Consortium In-Person Meeting Symposium/Panel Title: *Pediatric Genomics: Resolving Conflicts & Improving Decision-Making* Presentation Title: *Preferences in Pediatric Result Sharing: The Disease Category Approach*

Authors: Brothers KB, East KE

Role: Presenting Author and *Organizing Presenter

Oct 2014 Bethesda, Maryland

16. Panel Presentation, American Society of Bioethics and Humanities

Symposium/Panel Title: Operationalizing Choice and Autonomy: Approaches to Ethically Offering and Returning

Secondary Genetic Results

Presentation Title: Preferences in Pediatric Result Sharing: The Disease Category Approach

Authors: **Brothers KB**, East KE

Role: Presenting Author

Oct 2014 San Diego, California

17. Panel Presentation, American Society of Bioethics and Humanities

Symposium/Panel Title: The DNA Lives On: Genetic Testing and DNA Banking at the End of Life Presentation Title: Ethical and Legal Issues in Genetic Testing and DNA Banking At the End of Life

Role: Presenting Author

Oct 2014 San Diego, California

18. Platform Presentation, Translation in Healthcare - Exploring the Impact of Emerging Technologies

Symposium/Panel Title: Data Sharing for Translation

Presentation Title: Clinical Decision-Making and Secondary Findings in Systems Medicine

Authors: Langanke M, Fischer T, Erdmann P, Brothers KB

Role: Non-Presenting Author Jun 2015 Oxford, England

19. Short Course Faculty, Short Course on Statistical Genetics and Genomics (*Invited Talk)

Presentation Title: Ethical Issues in Human Genetics Research

Role: Presenting Author

Jul 2015 Birmingham, Alabama Contributed on the following dates:

July 27, 2015 July 11, 2016

20. Platform Presentation, American Society for Human Genetics

Symposium/Panel Title: The Real World: Translating Sequencing into the Clinic

Presentation Title: A large-scale survey conducted by the eMERGE Network of patient perspectives on broad consent and data sharing in biospecimen research

Authors: Smith ME, Sanderson S, Mercaldo N, Antommaria A, Aufox SA, Brilliant M, <u>Brothers KB</u>, Claar MB, Clayton EW, Connolly JJ, Conway P, Fullerton SM, Garrison NA, Hakonarson H, Horowitz CR, Jarvik GP, Kaufman D, Kitchner T, Li R, Ludman E, McCarty C, McCormick JB, Myers M, Nowakowski KE, Schildcrout J, Shrubsole MJ, Stallings S, Williams JL, Ziniel S, Holm IA

Role: Non-Presenting Author Oct 2015 Baltimore, Maryland

21. Platform Presentation, ACMG Annual Clinical Genetics Meeting

Presentation Title: Genomic Diagnoses for Children with Intellectual Disability and Developmental Delay Authors: Cooper GM, Amaral M, Barsh GS, Bebin EM, Bowling KM, **Brothers KB**, East KM, Finnila C, Gray D, Hiatt S, Kelley W, Lamb N, Lose EJ, Myers RM, Simmons S, Whittle J.

Role: Non-Presenting Author Mar 2016 Tampa, Florida

22. Platform Presentation, European Meeting on Psychosocial Aspects of Genetics

Symposium/Panel Title: From Public Understanding to Educating Professionals

Presentation Title: Development of Test Ordering Recommendations for Clinicians with Minimal Genetics Background from the ClinGen Consortium Consent and Disclosure Recommendations (CADRe) Committee

Authors: Ormond KE, Hallquist M, Buchanan A, Cho M, <u>Brothers KB</u>, Coughlin CR, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Faucett WA

Role: Non-Presenting Author May 2016 Barcelona, Spain

23. Platform Presentation, Curating the Clinical Genome

Symposium/Panel Title: Policy & Regulation

Presentation Title: Broad consent and data sharing: a large multi-site survey of patients' views in the US Authors: Sanderson SC, <u>Brothers KB</u>, Mercaldo ND, Clayton EW, Antommaria AHM, Aufox SA, Brilliant MH, Campus D, Carrell DS, Connolly J, Conway P, Fullerton SM, Garrison NA, Horowitz CR, Jarvik GP, Kaufman D, Kitchner TE, Li R, Ludman EJ, McCarty C, McCormick J, McManus V, Myers MF, Scrol A, Williams J, Shrubsole MJ,

Schildcrout JS, Smith ME, Holm IA Role: Non-Presenting Author Jun 2016 Cambridge, England

24. Panel Presentation, Festival of Genomics (*Invited Talk)

Symposium/Panel Title: Managing Secondary Genomic Findings

Presentation Title: Eliciting Preferences for Receiving Secondary Results

Role: Presenting Author and *Organizing Presenter

Jun 2016 Boston, Massachusetts

25. Platform Presentation, International Marcé Society Conference

Symposium/Panel Title: Impact of Interventions

Presentation Title: Internet-based Depression Treatment for Adolescent Mothers

Authors: Logsdon MC, Rushton J, Myers J, Davis D, Brothers KB, Josephson A, Gregg J, Bennett G.

Role: Non-Presenting Author Sep 2016 Melbourne, Australia

26. Invited Science Panel, Pediatric Academic Societies

Symposium/Panel Title: State of the Art in Pediatric Genomics: Evidence from the CSER Consortium Presentation Title: Ethical, Legal, and Social Implications (ELSI) of Genomic Technologies in Pediatrics

Authors: Brothers KB

Role: Presenting Author and *Organizing Presenter

May 2017 San Francisco, California

27. Panel Moderator, Genomics and Society: Expanding the ELSI Universe

Presentation Title: Reporting Dilemmas in Pediatric Genomics

Role: Presenting Author and *Organizing Presenter

Jun 2017 Farmington, Connecticut

28. Panel Presentation, Genomics and Society: Expanding the ELSI Universe

Symposium/Panel Title: Biobanking 2.0: Re-envisioning Relationships and Engaging New Ethical Challenges

Presentation Title: Burgoo vs. Quinoa: Ethical, Legal and Regulatory Issues in Biorepository Networks

Role: Presenting Author

Jun 2017 Farmington, Connecticut

29. Platform Presentation, American Society for Human Genetics

Presentation Title: Physicians' perspectives on returning unsolicited genomic results to patients and health care

providers

Authors: Pet D, Holm IA, Williams J, Myers M, Novak LL, Brothers KB, Clayton EW

Role: Non-Presenting Author Oct 2017 Orlando, Florida

30. Platform Presentation, American Society of Bioethics and Humanities

Presentation Title: Addressing Novel Ethical and Regulatory Challenges in Networked Biorepositories for Precision

Medicine

Authors: Goldenberg AJ, Brothers KB

Role: Non-Presenting Author Oct 2017 Kansas City, Missouri

31. Grand Rounds, Research Ethics Grand Rounds, University of Carolina at Chapel Hill (*Invited Talk)

Presentation Title: Burgoo vs. Quinoa: Reconciling Local and Global Governance in Networked Biorepositories

Authors: Brothers KB, Goldenberg AJ

Role: Presenting Author Nov 2017 Chapel Hill, NC

32. Platform Presentation, American College of Medical Genetics

Presentation Title: Consent for Genetic Testing and Disclosure of Results: Shifting the Paradigm to Non-Genetics Clinicians

Authors: Ormond K, Tricou E, Faucett WA, Brothers KB, Caughlin C, Hercher L, Hudgins L, Levy H, Peay H, Roche

M, Stosic M, Smith M, Uhlmann W, Wain K, Buchanan A

Role: Non-Presenting Author

Apr 2018 Charlotte, North Carolina

33. Platform Presentation, European Meeting on Psychosocial Aspects of Genetics

Symposium/Panel Title: To Know or Not To Know

Presentation Title: Consent for Genetic Testing and Disclosure of Results: Shifting the Paradigm to Non-Genetics Clinicians

Authors: Ormond KE, Hallquist MLG, Buchanan AH, Dondanville D, Cho MK, Smith ME, Roche M, **Brothers KB**, Coughlin CR, Hercher L, Hudgines L, Jamal S, Levy HP, Stosic M, Uhlmann W, Wain KE, Currey E, Faucett WA

Role: Non-Presenting Author Jun 2018 Milan, Italy

34. Platform Presentation, American Society of Bioethics and Humanities

Symposium/Panel Title: Trust in Research

Presentation Title: Predators in Space: A Geospatial Study of Predatorial Journals and Scientific Standards in an

Uncertain World
Authors: <u>Brothers KB</u>
Role: Presenting Author
Oct 2018 Anaheim, California

35. Webinar Presentation, Children's Mercy Bioethics Center Pediatric Ethics Webinar Series (*Invited Talk) Presentation Title: *Preventing Pediatric Genetic Conditions: The Ethics of Embryo Selection and Germline Genome Editing*

Authors: **Brothers KB**

Role: Presenting Author

Oct 2018 Kansas City, Missouri

36. Guest Lecturer/Discussion Leader, Medical University of South Carolina Bioethics Faculty Seminar (*Invited Talk)

Symposium/Panel Title: Bioethics Faculty Seminar Presentation Title: The Ethics of CRISPR Technologies

Role: Presenting Author Nov 2018 Charleston, SC

37. Panel Presentation, Society of Thoracic Surgeons Annual Meeting (*Invited Talk)

Symposium/Panel Title: Ethics Debate: Bespoke Babies - Genome Editing in Cystic Fibrosis Embryos

Presentation Title: Pro: CRISPR Technology Should Be Used to Prevent Cystic Fibrosis

Role: Presenting Author Jan 2019 San Diego, California

38. Panel Presentation, University of Utah Frontiers in Precision Medicine Symposium (*Invited Talk)

Symposium/Panel Title: *ELSI Issues in Assembling Large Cohorts for Precision Medicine* Presentation Title: *Crossing the Finish Line: Translating Precision Medicine to the Clinic*

Authors: <u>Brothers KB</u> Role: Presenting Author Mar 2019 Salt Lake City, Utah

39. Symposium Lecturer, Program for Biomedical Ethics at Yale School of Medicine (*Invited Talk)

Presentation Title: The Ethics of Germline Genome Editing

Role: Presenting Author

May 2019 New Haven, Connecticut

40. Panel Discussion, American Academy of Pediatrics National Conference and Exhibition Symposium/Panel Title: Section on Bioethics and Section on Obesity Joint H-Program

Presentation Title: Ethical Issues in the Care of Children with Obesity

Role: Presenting Author and *Organizing Presenter

Oct 2019 New Orleans, Louisiana

41. Policy Briefing, Georgetown University Law Center

Presentation Title: Unregulated Health Research Using Mobile Devices: Recommendations

Authors: Rothstein MA, Wilbanks JT, Brothers KB, Doerr M, McGowan ML

Role: Presenting Author Nov 2019 Washington, D.C.

42. Webinar Presentation, International Society for Biological and Environmental Repositories Educational Program Series

Presentation Title: Neglected Ethics in Biobanking: Addressing Issues of Sustainability, Utilization, and Stewardship Role: Presenting Author

Jul 2020

43. Webinar Presentation, American Society of Human Genetics Diversity, Equity, and Inclusion Series (*Invited Talk) Presentation Title: Expanding population participation in research: Dialogue about reasons people of diverse

ancestral background might or might not want to participate

Role: Presenting Author

Oct 2020

44. Panel Presentation, American Society of Bioethics and Humanities

Symposium/Panel Title: Responding to Secondary Genetic Findings in Adolescents and Newborns: Conceptual

Frameworks and Empirical Findings

Presentation Title: Case Wrap-Up and Conclusions

Role: Presenting Author

Oct 2020

Presented virtually due to COVID-19

45. Panel Presentation, Advancing Ethical Research Conference, Public Responsibility in Medicine and Research (PRIM&R)

Symposium/Panel Title: Assessing and Addressing the Ethical, Regulatory, and Governance Challenges of Networking Biorepositories

Presentation Title: Neglected Ethical Issues in Biobanking: Utilization, Sustainability, and Stewardship

Role: Presenting Author

Dec 2020

46. Panel Presentation, Center for ELSI Resources and Analysis Friday Forum

Symposium/Panel Title: *Biobanking in the Era of COVID* Presentation Title: *Impact of COVID-19 on Biobank ELSI* Authors: **Brothers KB**, Cadigan RJ, Goldenberg AJ

Role: Presenting Author

Jan 2021

47. Panel Presentation, American Association for the Advancement of Science (AAAS) Annual Meeting Symposium/Panel Title: *Polygenic Risk Scores: Uses and Misuses in Health, Research, and Society* Role: Presenting Author and *Organizing Presenter

Feb 2021

48. Workshop Presentation, International Society for Biological and Environmental Repositories (ISBER) Annual Meeting

Presentation Title: Assessing and Addressing the Ethical and Governance Challenges of Biorepository Networks

Authors: Brothers KB, Cadigan RJ, Goldenberg AJ

Role: Presenting Author

May 2021

49. Platform Presentation, International Society for Biological and Environmental Repositories (ISBER) Annual Meeting

Presentation Title: Biobanking in the Era of COVID-19: Ethical and Governance Challenges

Authors: Goldenberg AJ, Brothers KB, Cadigan RJ

Role: Non-Presenting Author

May 2021

Local/Regional Presentations:

1. Paper Response, Social and Political Thought Seminar

Symposium/Panel Title: Enhancing Evolution

Presentation Title: Exploring Gendered Experience When Gender Has Been Destabilized

Role: Presenting Author

Feb 2010 Nashville, Tennessee

2. Nineteenth Annual Joel G. Hardman Student-Invited Pharmacology Forum (*Invited Talk)

Symposium/Panel Title: Personalized Medicine

Presentation Title: Pediatric Biobanking Initiatives: Ethical Considerations and Legal Requirements

Role: Presenting Author

Apr 2010 Nashville, Tennessee

3. Nashville Chapter of the Society of Clinical Research Associates (*Invited Talk)

Presentation Title: Human Non-Subjects Biobanking': Ethical and Legal Considerations for Research Users

Role: Presenting Author

Jun 2010 Nashville. Tennessee

4. Grand Rounds, Department of Pediatrics, University of Louisville (*Invited Talk)

Presentation Title: Refusers, Deniers, and Objectors: Working with Vaccine-Hesitant Parents

Role: Presenting Author Aug 2010 Louisville, Kentucky

5. Panel Presentation, Vanderbilt Kennedy Research Center Ethics Grand Rounds

Symposium/Panel Title: 'Curing' Disabilities: Ethical Considerations

Role: Presenting Author

Apr 2011 Nashville, Tennessee

6. Belmont University (*Invited Talk)

Symposium/Panel Title: Panel Discussion on The Immortal Life of Henrietta Lacks by Rebecca Skloot Presentation Title: The Immortal Life of Henrietta Lacks: Research Controversies and Regulations

Role: Presenting Author

Nov 2011 Nashville, Tennessee

7. Guest Speaker, Hillsboro High School, Academy of Global Health and Science

Presentation Title: Synthetic Biology: Frankenstein in the 21st Century

Role: Presenting Author

May 2012 Nashville, Tennessee

8. St. Jude Children's Research Hospital Clinical Research Mini-Symposium (*Invited Talk)

Symposium/Panel Title: Genomics, Research and Children: Regulations, Ethics and Community Presentation Title: Issues of Consent and Return of Results in Genomics Research with Children

Role: Presenting Author

Aug 2012 Memphis, Tennessee

9. Center for Genetics and Molecular Medicine Symposium (*Invited Talk)

Symposium/Panel Title: Whole Genome Sequencing: From Lab to Clinic

Presentation Title: The Genome on the Exam Table: Clinical Applications of Whole Genome Sequencing

Role: Presenting Author Nov 2012 Louisville, Kentucky

10. CME Presentation, Carle Foundation Hospital (*Invited Talk)

Symposium/Panel Title: Bioethics Seminar Series

Presentation Title: Working with Vaccine-Hesitant Parents

Role: Presenting Author Sep 2013 Urbana, Illinois

11. Research Symposium Presentation, Kentucky General Pediatrics Scholarship Symposium

Presentation Title: Genomic Diagnosis in Children with Developmental Delay

Role: Presenting Author

May 2014 Lexington, Kentucky

12. Grand Rounds, Department of Pediatrics, University of Louisville

Symposium/Panel Title: Ebola - The 21st Century Plague Presentation Title: Ebola: Professional and Public Health Ethics

Role: Presenting Author Oct 2014 Louisville, KY

13. Panel Presentation, Genomics and Ethics in Research and Medical Decision-Making

Symposium/Panel Title: Beyond Dualist Perspectives on Genetic Exceptionalism

Presentation Title: Finding a Better Way: Genomic Distinctiveness

Authors: <u>Brothers KB</u>, Goldenberg AJ, Garrison NA Role: Presenting Author and *Organizing Presenter

Mar 2015 Cincinnati, Ohio

14. Platform Presentation, Genomics and Ethics in Research and Medical Decision Making Presentation Title: *Eliciting Parents' Preferences for Receiving Secondary Genomic Results*

Authors: <u>Brothers KB</u>, East KE Role: Presenting Author Mar 2015 Cincinnati, Ohio

15. Platform Presentation, Rare Disease Symposium (*Invited Talk) Presentation Title: *Ethical and Legal Issues in Clinical Genomics*

Role: Presenting Author

Mar 2015 Birmingham, Alabama

16. Conference Presentation, Neonatal Concepts Conference (*Invited Talk)

Presentation Title: Choose Your Own Adventure: Professional Boundaries in Neonatal Nursing Care

Role: Presenting Author Oct 2015 Louisville, Kentucky

17. Grand Rounds, Department of Family and Geriatric Medicine, University of Louisville (*Invited Talk)

Presentation Title: Working with Vaccine-Hesitant Parents

Role: Presenting Author Oct 2015 Louisville, Kentucky

18. Grand Rounds, Division of Pediatric and Adolescent Psychology and Psychiatry (*Invited Talk)

Presentation Title: The Preferences Instrument for Genomic Secondary Results

Role: Presenting Author Nov 2015 Louisville, Kentucky

19. Speaker, Kentucky Chapter of the AAP Annual Meeting (*Invited Talk)

Presentation Title: The Ethics of Genetic Testing: What the General Pediatrician Needs to Know

Role: Presenting Author Aug 2016 Berea, Kentucky

20. Panel Presentation, Kentucky Healthcare Ethics Consortium Conference

Symposium/Panel Title: Surrogate Decision Making: Roles and Responsibilities of Providers and Surrogates

Presentation Title: Working with Surrogate Decision-Makers

Role: Presenting Author and *Organizing Presenter

Sep 2016 Lexington, Kentucky

21. Conference Presentation, Neonatal Concepts Conference (*Invited Talk)

Presentation Title: What Would You Do? Ethics Cases in Neonative Intensive Care

Role: Presenting Author Oct 2016 Louisville, Kentucky

22. Breakout Session Presenter, 2016 Annual Midwest Global Health Conference (*Invited Talk)

Presentation Title: What Would You Do? Ethics Cases in Refugee Health

Role: Presenting Author Nov 2016 Lexington, Kentucky

23. Grand Rounds, Department of Family and Geriatric Medicine, University of Louisville (*Invited Talk)

Presentation Title: The Ethics of Genetic Testing: What the Primary Care Provider Needs to Know

Role: Presenting Author and *Organizing Presenter

Nov 2016 Louisville, Kentucky

24. Panel Presentation, Precision Genomics Midwest (*Invited Talk)

Symposium/Panel Title: Ethical, Legal & Social Implications of Genomics

Presentation Title: Precision Medicine in the Clinic: Disruption or Evolution

Role: Presenting Author May 2017 Cincinnati, Ohio

25. Bioethics Seminar, Indiana University Department of Bioethics (*Invited Talk)

Presentation Title: Can Precision Medicine be Evidence-Based?

Role: Presenting Author Dec 2017 Indianapolis, IN

26. Grand Rounds, Department of Pediatrics, University of Louisville (*Invited Talk)

Symposium/Panel Title: Thomas H. Pinkstaff Memorial Lecture

Presentation Title: Preventing Autism: The Ethics of Embryo and Germline Genome Editing

Role: Presenting Author and *Organizing Presenter

Mar 2019 Louisville, Kentucky

27. Grand Rounds, Pediatrics Grand Rounds, Cincinnati Children's Hospital Medical Center (*Invited Talk)

Presentation Title: The Ethics of CRISPR Technologies: Gene Editing in Pediatric Medicine

Role: Presenting Author May 2019 Cincinnati, Ohio

28. Symposium Lecturer, Kentucky Healthcare Ethics Consortium Conference (*Invited Talk)

Presentation Title: Ethical Issues in Genetic and Genomic Medicine

Role: Presenting Author Oct 2019 Lexington, Kentucky

29. Grand Rounds, Department of Neurology, University of Louisville (*Invited Talk)

Presentation Title: Ethical Issues in the Use of Genomic Technologies in the Pediatric Neurology Practice

Role: Presenting Author Nov 2019 Louisville, Kentucky

30. Panel Presentation, Kentucky Spinal Cord Injury Research Seminar Series

Presentation Title: Normal is in the Eye of the Beholder: A New Lens to View Restoration in Pediatric Spinal Cord

Injury

Authors: Behrman AL, Calvery ML, Brothers KB

Role: Presenting Author
Jan 2020 Louisville, Kentucky

31. Grand Rounds, Department of Pediatrics, University of Louisville

Presentation Title: Using Race in Clinical Care: What Can Genetics Tell Us?

Role: Presenting Author Apr 2021 Louisville, Kentucky

POSTERS

National/International Presentations:

1. Poster Presentation, American College of Medical Genetics

Presentation Title: Secondary findings from clinical exome or genome sequencing: Prevalence, patient perspectives and healthcare costs from a multi-site study

Authors: Berg J, Veenstra D, Green R, Hart R, Jarvik G, Amendola L, Bergstrom K, **Brothers KB**, Chinnaiyan A, Blout C, Christensen K, Cooper G, Evans J, Goddard K, Johnston J, Kaufman D, Krantz I, Lewis K, Plon S, Spinner N, Van Allen E, Wilfond B, Biesecker B, Biesecker L

Role: Non-Presenting Author Charlotte, North Carolina

2. HUGO Symposium on Genomics and Ethics. Law and Society

Symposium/Panel Title: Sequencing of Individual Genomes: Impact on Society and Ethics

Presentation Title: Acceptability of an Opt-out Biobank Based on Electronic Medical Record and Residual Blood

Samples

Authors: Brothers KB, Morrison DR, Pulley J, Masys D, Clayton EW

Role: Non-Presenting Author Nov 2009 Geneva, Switzerland

3. Pediatric Academic Societies

Presentation Title: Acceptability of an Opt-Out Pediatric Biobank Based on Electronic Medical Record and Residual Blood Samples

Authors: Brothers KB, Clayton EW, Morrison DR, Pulley JM, Masys D

Role: Presenting Author

May 2010 Vancouver, British Columbia, Canada

4. American Society of Bioethics and Humanities

Presentation Title: The Nashville Community Health Survey: Perspectives on DNA Biobanking in a Population-Based Survey

Authors: Brothers KB, Morrison DR, Clayton EW

Role: Presenting Author

Oct 2010 San Diego, California

5. 2011 Congress of the Ethical, Legal and Social Implications Research Program

Presentation Title: Patient Perspectives on the PREDICT Program: Focus Groups on Practical Issues in the Design of a Clinical Pharmacogenomics Program

Authors: Wright MF, Clayton EW, Pulley J, Brothers KB

Role: Non-Presenting Author Apr 2011 Chapel Hill, North Carolina

6. American Society for Human Genetics

Presentation Title: Mapping the Incidentalome: Quantifying Incidental Findings Generated Through a Clinical Pharmacogenomics Project

Authors: Brothers KB, Westbrook MJ, Wright MF, Van Driest SL, McGregor TL, Denny JC, Zuvich RL, Clayton EW

Role: Presenting Author

Nov 2012 San Francisco, California

7. Pediatric Pharmacogenomics and Personalized Medicine Symposium

Presentation Title: Genome-Wide Association Study of Vancomycin Pharmacokinetics

Authors: McGregor TL, Van Driest SL, Lu Z, Vear S, Creech CB, Kannankeril PJ, **Brothers KB**, Potts A, Bowton E,

Delaney JT, Bradford Y, Wilson S, Olson L, Crawford DC, Saville B, Roden DM, Denny JC

Role: Non-Presenting Author Apr 2013 Kansas City, Missouri

8. Poster Presentation, National Human Genome Research Institute (NHGRI) Scientific Symposium Presentation Title: *The Electronic Medical Records and Genomics (eMERGE) Network: A Population Survey of Perspectives toward Proposed Rule on Broad Consent and Data Sharing in Biomedical Research* Authors: Odgis JA, Holm IA, Smith ME, Garrison NA, **Brothers KB**, Myers MF, McCormick JB, Aufox SA, Antommaria AH, Chandler A, Christensen KD, Veerkamp M, Connolly N, Ziniel S, Ludman EJ, Fullerton SM, Scrol A, Williams JL, DeWalle J, Nowakowski KE, Connolly JJ, Brilliant MH, Hitz P, Kitchner T, Joyce J, Conway P, McCarty CA, McManus VD, Negron R, Pacheco JL, Horowitz C, Clayton EW, Price L, Basford MA, Stallings SC, Claar MB, Scrubsole MJ, Mercaldo ND, Schildcrout JS, Sanderson SC, Kaufman D, Lockhart N, Li R

Role: Non-Presenting Author Dec 2014 Bethesda, Maryland

9. Poster Presentation, Ethical and Legal Aspects of Molecular Genetic Incidental Findings in Germany, Austria, and Switzerland (*Invited Talk)

Presentation Title: How Could This Have Happened? The US Perspective on Incidental Findings in the ACMG Recommendations

Authors: <u>Brothers KB</u>
Role: Non-Presenting Author
Feb 2015 Greifswald, Germany

10. American Society for Human Genetics

Presentation Title: Secondary Finding Preferences in Whole Genome Sequencing: Experiences with a Large

Developmental Delay Cohort

Authors: East KM, Brothers KB, Bowling KM, Simmons S, Bebin EM, Lose EJ, Kelley W, Barsh GS, Myers RM,

Cooper GM

Role: Non-Presenting Author Oct 2015 Baltimore, Maryland

11. National Society of Genetic Counselors Annual Education Conference

Presentation Title: Development of Recommendations for Ordering Clinicians with Minimal Genetics Background from the ClinGen Consortium Consent and Disclosure Recommendations Committee

Authors: Faucett WA, Rashkin M, <u>Brothers KB</u>, Coughlin C, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Ormond K

Role: Non-Presenting Author Oct 2015 Pittsburgh, Pennsylvania

12. National Society of Genetic Counselors Annual Education Conference

Presentation Title: Secondary Finding Preferences in Whole Genome Sequencing: Experiences with a Large Developmental Delay Cohort

Authors: East KM, <u>Brothers KB</u>, Bowling KM, Simmons S, Bebin EM, Lose EJ, Kelley W, Barsh GS, Myers RM,

Cooper GM

Role: Non-Presenting Author Oct 2015 Pittsburgh, Pennsylvania

13. Poster Presentation, Pediatric Academic Societies

Presentation Title: Prescribing Antipsychotic Medication to Children: Qualitative Study of Providers' Attitudes, Beliefs, and Behaviors and Preferences for Interventions

Authors: Lohr D, Brothers KB, Feygin Y, Liu G, Ryan L, Smith M, Stevenson M, Woods C, Myers J, Davis D

Role: Non-Presenting Author Mar 2016 Baltimore, Maryland

14. Poster Presentation, ACMG Annual Clinical Genetics Meeting

Presentation Title: Expecting the Unexpected: Secondary Finding Preferences and Outcomes in Families of Children with Developmental Delay

Authors: Kelley W, East KM, <u>Brothers KB</u>, Rich CA, Amaral M, Barsh GS, Bebin EM, Bowling KM, Finnila C, Gray D, Hiatt S, Lamb N, Lose EJ, Myers RM, Simmons S, Whittle J, Cooper GM

Role: Non-Presenting Author Mar 2016 Tampa, Florida

15. Poster Presentation, ACMG Annual Clinical Genetics Meeting

Presentation Title: Is Knowledge Power? Family-Centered Outcomes from Genomic Sequencing in Children with Intellectual Disability

Authors: East KM, <u>Brothers KB</u>, Rich CA, Kelley W, Amaral M, Barsh GS, Bebin EM, Bowling KM, Finnila C, Gray D, Hiatt S, Lamb N, Lose EJ, Myers RM, Simmons S, Whittle J, Cooper GM

Role: Non-Presenting Author Mar 2016 Tampa, Florida

16. Poster Presentation, ACMG Annual Clinical Genetics Meeting

Presentation Title: Eliciting Preferences on Secondary Findings: The Preferences Instrument for Genomic Secondary Results (PIGSR)

Authors: <u>Brothers KB</u>, East KM, Wright MF, Rich CA, Kelley W, Westbrook M, Amaral M, Barsh GS, Bebin EM, Bowling KM, Finnila C, Gray D, Hiatt S, Lamb N, Lose EJ, Myers RM, Simmons S, Whittle J, Cooper GM, Clayton EW

Role: Presenting Author Mar 2016 Tampa, Florida Recognized as "Top Poster"

17. Poster Presentation, ACMG Annual Clinical Genetics Meeting

Presentation Title: Patients' Views on Broad Consent and Data Sharing in Biobank Research: A Large Multisite Survey in the US

Authors: Sanderson S, Antommaria A, Aufox S, Brilliant M, <u>Brothers KB</u>, Clayton EW, Connolly J, Garrison N, Harley J, Holm I, Horowitz C, Kaufman D, Ludman E, McCarty C, McCormick J, Mercaldo N, Schildcrout J, Shrubsole

M, Basford M, Bodin Claar M, Smith M Role: Presenting Author

Mar 2016 Tampa, Florida

18. Poster Presentation, ACMG Annual Clinical Genetics Meeting

Presentation Title: Reanalysis of Exomes with No Results or Variants of Uncertain Significance Leads to New Diagnoses

Authors: Hiatt S, Amaral M, Barsh GS, Bebin EM, Bowling KM, <u>Brothers KB</u>, Cooper GM, East KM, Finnila C, Gray D, Kelley W, Lamb N, Lose EJ, Myers RM, Rich CA, Simmons S, Whittle J

Role: Non-Presenting Author Mar 2016 Tampa, Florida Recognized as "Top Poster"

19. Poster Presentation, Curating the Clinical Genome

Presentation Title: *The ClinGen CADRe Rubric: Developing Communication Strategies for Actionable Genes*Authors: Faucett WA, Hallquist M, Buchanan A, Cho M, Kaufman D, <u>Brothers KB</u>, Coughlin CR, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Ormond KE

Role: Non-Presenting Author Jun 2016 Cambridge, England

20. Poster Presentation, National Society of Genetic Counselors Annual Education Conference

Presentation Title: Genetic testing for hereditary cancer predisposition: when can a targeted discussion with a nongenetics clinician provide adequate consent?

Authors: Buchanan AH, Faucett WA, Hallquist M, Cho M, <u>Brothers KB</u>, Coughlin CR, Hercher L, Hudgins L, Jamal S, Levy Howard, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Ormond KE

Role: Non-Presenting Author Sep 2016 Seattle, Washington

21. Poster Presentation, National Society of Genetic Counselors Annual Education Conference

Presentation Title: Development of Tools to Determine Communication Strategies for Actionable Genes from ClinGen's CADRe Working Group

Authors: Faucett WA, Hallquist M, Buchanan A, Cho M, <u>Brothers KB</u>, Coughlin CR, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Ormond KE

Role: Non-Presenting Author Sep 2016 Seattle, Washington

22. Poster Presentation, Rare Diseases and Orphan Products Breakthrough Summit

Presentation Title: Is Knowledge Power? Family-Centered Outcomes from Genomic Sequencing in Children with Intellectual Disability

Authors: Kelley WK, <u>Brothers KB</u>, Rich CA, East KE, Amaral M, Barsh G, Bebin E, Bowling K, Finnila C, Gray D, Hiatt S, Lamb N, Lose E, Myers J, Myers R, Simmons S, Thompson M, Whittle J, Cooper G

Role: Non-Presenting Author Oct 2016 Arlington, Virginia

23. Poster Presentation, American Society of Human Genetics

Presentation Title: Rapid in vitro evaluation of variants of uncertain significance from patients with developmental delay and/or intellectual disability

Authors: Engel KL, Cochran JN, Hardigan AA, Amaral MD, Bowling KM, Finnila CR, Hiatt SM, Thompson ML, Gray DE, Whittle JS, Kelley WV, Cochran ME, East KM, Lamb NE, Rich CA, **Brothers KB**, Lose EJ, Simmons SB, Bebin EM, Barsh GS, Cooper GM, Myers RM

Role: Non-Presenting Author

Oct 2016 Vancouver, British Columbia, Canada

24. Poster Presentation, American Society of Human Genetics

Presentation Title: Is Knowledge Power? Family-Centered Outcomes from Genomic Sequencing in Children with Intellectual Disability

Authors: <u>Brothers KB</u>, East KM, Kelley WV, Rich CA, Bowling KM, Bebin EM, Lose EJ, Simmons S, Myers JA, Barsh GS, Finnila CR, Gray DE, Hiatt SM, Lamb NE, Whittle JS, Amaral MD, Thompson M, Myers RM, Rothstein MA, Cooper GM

Role: Presenting Author

Oct 2016 Vancouver, British Columbia, Canada

25. Poster Presentation. American Society of Human Genetics

Presentation Title: Determining critical communication issues for the genetic testing process

Authors: Hallquist MLG, Buchanan AH, Faucett WA, Cho M, Brothers KB, Coughlin CR, Hercher L, Hudgins L,

Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uglmann W, Wain K, Ormond KE

Role: Non-Presenting Author

Oct 2016 Vancouver, British Columbia, Canada

26. Poster Presentation, American Epilepsy Society Annual Meeting

Presentation Title: Expanding the Etiologies for Epilepsy, Autism and Intellectual Disabilities: The Role of mTOR Mutations

Authors: Bebin E, Bowling K, Hiatt S, Amaral M, Thompson M, Finnila C, Gray D, Whittle J, Kelley W, East K,

Brothers KB, Lamb N, Simmons S, Barsh G, Myers R, Lose E, Cooper G

Role: Non-Presenting Author Dec 2016 Houston, Texas

27. Poster Presentation, Pediatric Academic Societies

Presentation Title: Addressing the Mental Healthcare Needs of Foster Children: Perspectives of Stakeholders from the Child Welfare System

Authors: Brothers KB, Lohr WD, Sonderman N, Rich CA, Ryan L, Pasquenza N, Jones VF, Williams PG, Liu GC,

Davis DW

Role: Presenting Author

May 2017 San Francisco, California

28. Poster Presentation, Association of Women's Health, Obstetric and Neonatal Nurses Annual Convention

Presentation Title: Predicting Depression Treatment in Adolescent Mothers Across Time

Role: Non-Presenting Author

Jun 2017 New Orleans, Louisiana

29. Poster Presentation, National Society of Genetic Counselors Annual Education Conference

Presentation Title: Family responses following receipt of complex genomic sequencing results

Authors: Kelley WK, Brothers KB, East KE, Amaral M, Barsh G, Bebin E, Bowling K, Cochran ME, Finnila C, Gray D,

Hiatt S, Lamb N, Lose E, Myers RM, Rich CA, Simmons SB, Whittle JS, Cooper GM

Role: Non-Presenting Author Sep 2017 Columbus, Ohio

30. Poster Presentation, American Society for Human Genetics

Presentation Title: Identification of secondary genetic variation in the HudsonAlpha CSER Project

Authors: Thompson ML, Finnila CR, Bowling KM, Hiatt SM, Amaral MD, <u>Brothers KB</u>, East KM, Gray DE, Lawlor J,

Kelley WV, Neu M, Lamb NE, Lose EJ, Rich CA, Simmons S, Myers RM, Barsh GS, Bebin EM, Cooper GM

Role: Non-Presenting Author Oct 2017 Orlando, Florida

31. Poster Presentation, American Society for Human Genetics

Presentation Title: Reanalysis of whole exome and genome data leads to new diagnoses in children with intellectual disability and developmental delay

Authors: Finnila CR, Hiatt SM, Amaral MD, Bowling KM, Thompson ML, Barsh G, Bebin EM, <u>Brothers KB</u>, East KM, Gray D, Kelley WV, Lamb N, Lawlor J, Lose E, Myers RM, Rich CA, Simmons S, Cooper GM

Role: Non-Presenting Author

Oct 2017 Orlando, Florida

32. Poster Presentation, American Society for Human Genetics

Presentation Title: Earlier Answers are Better Answers: Family-Centered Utility of Genome-Scale Sequencing for Children with Intellectual Disability

Authors: Brothers KB, Rich CA, East KM, Kelley WV, Bowling KM, Amaral MD, Finnila CR, Hiatt SM, Thompson ML,

Gray DE, Lose EJ, Simmons S, Whittle JS, Myers RM, Lamb NE, Barsh GS, Bebin EM, Cooper GM

Role: Presenting Author

Oct 2017 Orlando, Florida

Poster was awarded "Reviewers' Choice Abstract" award.

33. Poster Presentation, American College of Medical Genetics

Presentation Title: Complex Genomic Results: Family Reactions and Follow-up

Authors: Kelley WK, Brothers KB, East KE, Amaral M, Barsh G, Bebin E, Bowling K, Cochran M, Finnila C, Gray D,

Hiatt S, Lamb N, Lawlor J, Lose E, Myers R, Rich CA, Simmons S, Thompson M, Cooper G

Role: Non-Presenting Author Apr 2018 Charlotte, North Carolina

34. Poster Presentation, American College of Medical Genetics

Presentation Title: Identification of secondary genetic variation in a cohort of parent study participants

Authors: Thompson M, Finnila C, Hiatt S, Amaral M, <u>Brothers KB</u>, East K, Gray D, Lawlor J, Kelley W, Neu M, Lose

E, Rich CA, Simmons S, Myers R, Barsh G, Bebin E, Cooper G

Role: Non-Presenting Author Apr 2018 Charlotte, North Carolina

35. Poster Presentation, National Society of Genetic Counselors Annual Education Conference

Presentation Title: Pathogenic RET Variant Identified as Secondary Result in Unaffected Parent via Trio Whole

Genome Sequencing for Developmental Delay: Clinical, Familial, and Psychosocial Implications

Authors: Kelley WV, <u>Brothers KB</u>, East KM, Rich CA, Amaral MD, Barsh GS, Bebin EM, Bowling KM, Cochran ME, Finnila CR, Gray DE, Hiatt SM, Krefting JL, Lamb NE, Lawlor JMJ, Lose EJ, Myers RM, Neu MB, Simmons SB,

Thompson ML, Cooper GM Role: Non-Presenting Author Nov 2018 Atlanta, Georgia

36. Poster Presentation, American College of Medical Genetics

Presentation Title: Preliminary Results of SouthSeq: Sequencing NICU Newborns in the South

Authors: Bowling KM, Hiatt S, Finnila C, Thompson M, Amaral M, Kelley W, East K, Greve V, Cochran M, Gray D,

Lawlor J, Hendon L, Wienpahl, Brothers KB, Hurst A, Savich R, Barsh G, Korf B, Cooper G

Role: Non-Presenting Author Apr 2019 Seattle, Washington

37. Neuroscience 2019

Presentation Title: Unexpected recovery in a 3 year old with chronic, cervical spinal cord injury and ventilator dependent during activity-based therapy program

Authors: Roberts M, Stout D, Bickel S, Calvery M, Brothers KB, McNamara K, Singh G, Behrman A

Role: Non-Presenting Author Oct 2019 Chicago, Illinois

38. Neuroscience 2019

Presentation Title: The impact of an activity-based therapy program on pediatric patients with SCI and families

Authors: McNamara KC, Brothers KB, Calvery ML, Behrman AL

Role: Non-Presenting Author Oct 2019 Chicago, Illinois

39. Poster Presentation, Society for Developmental and Behavioral Pediatrics Annual Meeting

Presentation Title: ADHD Practice Patterns: A Survey of Kentucky Pediatric Providers Authors: Trace ME, Brothers KB, Calhoun AW, Davis DW, Feygin YB, Williams PG

Role: Non-Presenting Author

Oct 2020

Presented virtually due to COVID-19

40. American Society for Human Genetics

Presentation Title: Unexpected Genetic Findings in a Cohort of Critically III Newborns

Authors: Bowling KM, Hurst AC, Thompson ML, Hiatt SM, Finnila CR Latner DR, Amaral MD, Neu MB, East KM, Cochran ME, Greve VN, Gray DE, Lawlor JM, Hendon LG, Janani H, <u>Brothers KB</u>, Savich R, Spedale SB, Patrick-Esteve JL, Barsh GS, Korf BR, Cooper GM

Role: Non-Presenting Author

Oct 2020

Presented Virtually due to COVID-19

41. Poster Presentation, Advancing Ethical Research Conference, Public Responsibility in Medicine and Research (PRIM&R)

Presentation Title: Neglected Ethical Issues in Biobanking: Stewardship, Utilization, Funding, and Sustainability

Authors: Brothers KB, Cadigan RJ, Rivera SM, Rothstein MA, Sharp RR, Goldenberg AJ

Role: Presenting Author

Dec 2020

42. Poster Presentation, American College of Medical Genetics and Genomics (ACMG) Annual Clinical Genetics Meeting

Presentation Title: SouthSeq: Genome sequencing as a frontline genetic test in the NICU

Authors: Amaral M, Thompson M, Bowling K, Finnila C, Hiatt SM, Latner D, Kelley WV, East K, Greve V, Cochran M, Gray D, Lawlor J, Meddaugh H, Cannon A, Luedecke A, Jackson K, Hendon L, Janani H, Johnston M, Merin LA, Deans S, Tuura C, Hughes T, Williams H, Laborde K, Patrick-Esteve J, Hurst A, **Brothers KB**, Savich R, Spedale S, Knight S, Barsh G, Korf B, Cooper G

Role: Non-Presenting Author

Apr 2021

43. Poster Presentation, American College of Medical Genetics and Genomics (ACMG) Clinical Genetics Meeting Presentation Title: *Taking an Antiracist Posture in Scientific Publications in Human Genetics and Genomics* Authors: **Brothers KB**, Bennett R, Cho M

Role: Non-Presenting Author

Apr 2021

Local/Regional Presentations:

1. Research! Louisville 2012

Presentation Title: Mapping the Incidentalome: Quantifying Incidental Findings Generated Through a Clinical Pharmacogenomics Project

Authors: Westbrook MJ, Wright MF, Van Driest SL, McGregor TL, Denny JC, Zuvich RL, Clayton EW, Brothers KB

Role: Presenting Author Sep 2012 Louisville, Kentucky

2. Research! Louisville 2014

Presentation Title: *Geographic Disparities of Pediatric Obesity Clinic Attendance*Authors: Yeager RA, Sweeney BR, Myers JA, Burkhead TA, Shaffer LA, **Brothers KB**Role: Non-Presenting Author
Sep 2014 Louisville, Kentucky

3. Poster Presentation, Research! Louisville 2014

Presentation Title: Factors Associated with Attendance at a Pediatric Weight Management Program Authors: Burkhead TA, Shaffer LA, **Brothers KB**, Myers JA, Yeager RA, Sweeney BR

Role: Non-Presenting Author Sep 2014 Louisville, Kentucky

4. Poster Presentation, Southeast Regional IDeA Conference Agenda

Presentation Title: Kentucky Pediatric IDeA Research Center: Building Pediatric Research in Kentucky

Authors: Watson S, Boyd J, Brothers KB, Devlin L, Bickel S, Barnes G, Davis D, Lohr D, Espinosa C, Sullivan JE

Role: Non-Presenting Author Nov 2019 Louisville, Kentucky

PUBLICATIONS

PEER-REVIEWED

Original Research Articles, Major Author:

1. <u>Brothers KB</u>. Covenant and the Vulnerable Other. *Journal of the American Medical Association*. 2002; 288 (9): 1133.

- 2. <u>Brothers KB</u>, Glascoe FP, Robertshaw NS. PEDS: Developmental Milestones--an accurate brief tool for surveillance and screening. *Clinical Pediatrics*. 2008; 47 (3): 271-279.
- 3. <u>Brothers KB</u>, Clayton EW. "Human Non-Subjects Research": Privacy and Compliance. *American Journal of Bioethics*. 2010; 10 (9): 15-17.
- 4. **<u>Brothers KB</u>**. Biobanking in Pediatrics: The Human Non-Subjects Approach. *Personalized Medicine*. 2011; 8 (1): 71-79.
- 5. Brothers KB. Dependent Rational Providers. Journal of Medicine and Philosophy. 2011; 36 (2): 133-147.
- 6. <u>Brothers KB</u>, Morrison DM, Clayton EW. Two Large Scale Surveys on Community Attitudes Toward an Opt-Out Biobank. *American Journal of Medical Genetics*. 2011; 155A (12): 2982-2990.
- 7. <u>Brothers KB</u>, Clayton EW. Parental Perspectives on a Pediatric Human Non-Subjects Biobank. *American Journal of Bioethics: Primary Research.* 2012; 3 (3): 21-29.
- 8. Westbrook MJ, Wright MF, Van Driest SL, McGregor TL, Denny JC, Zuvich RL, Clayton EW, <u>Brothers KB</u>. Mapping the Incidentalome: Estimating Incidental Findings Generated Through Clinical Pharmacogenomics Testing. *Genetics in Medicine*. 2012; 15 (5): 325-331.
- 9. Webster THG, Beal SJ, <u>Brothers KB</u>. Motivation in the Age of Genomics: Why Incidental Genetic Findings of Disease Susceptibility Might Not Motivate Behavior Change. *Life Sciences, Society, and Policy.* 2013; 9 (8).
- 10. **Brothers KB**, Westbrook MJ, Wright MF, Myers JA, Morrison DR, Madison JL, Pulley JM, Clayton EW. Patient Awareness and Approval for an Opt-Out Genomic Biorepository. *Personalized Medicine*. 2013; 10 (4): 349-359.
- 11. <u>Brothers KB</u>, Langanke M, Erdmann P. The Implications of the Incidentalome for Clinical Pharmacogenomics. *Pharmacogenomics*. 2013; 14 (11): 1353-1362.
- 12. **Brothers KB**, Lynch JA, Aufox SA, Connolly JJ, Gelb BD, Holm IA, Sanderson SC, McCormick JB, Williams JL, Wolf WA, Antommaria AHM, Clayton EW. Practical Guidance on Informed Consent for Pediatric Participants in a Biorepository. *Mayo Clinic Proceedings*. 2014; 89 (11): 1471-1480.
- 13. <u>Brothers KB</u>, Rothstein MA. Ethical, Legal, and Social Implications of Incorporating Personalized Medicine into Healthcare. *Personalized Medicine*. 2015; 12 (1): 43-51.
- 14. **Brothers KB**, Holm IA, Childerhose JE, Antommaria AHM, Bernhardt BA, Clayton EW, Gelb BD, Joffe S, Lynch JA, McCormick JB, McCullough LB, Parsons DW, Sundaresan AS, Wolf WA, Yu JH, Wilfond BS. When Participants in Genomic Research Grow Up: Contact and Consent at the Age of Majority. *The Journal of Pediatrics*. 2016; 168 (January): 226-231.e1.
- 15. **Brothers KB**, Goldenberg AJ. Ethical and Legal Considerations for Pediatric Biobank Consent: Current and Future Perspectives. *Personalized Medicine*. 2016; 13 (6): 597-607.
- 16. Sanderson SC, <u>Brothers KB</u>, Mercaldo ND, Clayton EW, Antommaria AHM, Aufox SA, Brilliant MH, Campos D, Carrell DS, Connolly JJ, Conway P, Fullerton SM, Garrison NA, Horowitz CR, Jarvik GP, Kaufman D, Kitchner TE, Li R, Ludman EJ, McCarty C, McCormick J, McManus V, Myers MF, Scrol A, Williams J, Schrubsole MJ, Schildcrout JS, Smith ME, Holm IA. Public attitudes towards consent and data sharing in biobank research: a large multi-site experimental survey in the US. *American Journal of Human Genetics*. 2016; 100 (3): 414-427.
- 17. **Brothers KB**, East KM, Kelley WV, Wright MF, Westbrook MJ, Rich CA, Bowling KM, Lose EJ, Bebin EM, Simmons S, Myers JA, Barsh G, Myers RM, Cooper GM, Pulley JM, Rothstein MA, Clayton EW. Eliciting Preferences on Secondary Findings: The Preferences Instrument for Genomic Secondary Results (PIGSR). *Genetics in Medicine*. 2017; 19 (3): 337-344.

- 18. <u>Brothers KB</u>, Knapp E. Case 2: How Should Primary Care Physicians Respond to Direct-to-consumer Genetic Test Results?. *AMA Journal of Ethics*. 2018; 20 (9): E812-818.
- 19. <u>Brothers KB</u>, Wilfond BS. Research Consent at the Age of Majority: Preferable but not Obligatory. *Pediatrics*. 2018; 142 (2): e20173038.
- 20. **Brothers KB**, Vassy JL, Green RC. Reconciling Opportunistic and Population Screening in Clinical Genomics. *Mayo Clinic Proceedings*. 2019; 94 (1): 103-109.
- 21. Lohr WD, Davis DW, Rich CA, Ryan L, Jones VF, Williams PG, Liu GC, Woods C, Sonderman N, Pasquenza N, **Brothers KB**. Addressing the Mental Healthcare Needs of Foster Children: Perspectives of Stakeholders from the Child Welfare System. *Journal of Public Child Welfare*. 2019; 13 (1): 84-100.
- 22. **Brothers KB**, Rivera SM, Cadigan RJ, Sharp RR, Goldenberg AJ. A Belmont Reboot: Building a Normative Foundation for Human Research in the 21st Century. *The Journal of Law, Medicine, and Ethics.* 2019; 47 (1): 165-172.
- 23. Childerhose JE, Finnila CR, Yu JH, Koenig BA, McEwen JE, Berg SL, Wilfond BS, Appelbaum PS, <u>Brothers KB</u>. Participant Engagement in Translational Genomic Research: Respect for Persons--and Then Some. *Ethics & Human Research*. 2019; 41 (5): 2-15.
- 24. Garrett JR, Lantos JD, Biesecker LG, Childerhose JE, Chung WK, Holm IA, Koenig BA, McEwen JE, Wilfond BS, **Brothers KB**. Rethinking the "Open Future" Argument against Predictive Genetic Testing. *Genetics in Medicine*. 2019; 21 (10): 2190-2198.
- 25. Bibler TM, Stahl D, Fantus S, Lion A, <u>Brothers KB</u>. Responding to Parents/Guardians Who Hope for a Miracle: A Process-Based Approach. *Pediatrics*. 2020; 145 (3): e20192319.
- 26. **Brothers KB**, Clayton EW, Goldenberg AJ. Online Pediatric Research: Addressing Consent, Assent, and Parental Permission. *Journal of Law, Medicine, & Ethics.* 2020; 48 (S1): 129-137.
- 27. Wagner JK, Colwell C, Claw KG, Stone AC, Bolnick DA, Hawks J, <u>Brothers KB</u>, Garrison NA. Fostering Responsible Research on Ancient DNA. *American Journal of Human Genetics*. 2020; 107 (2): 183-195.
- 28. Lynch JA, Goldenberg AJ, Garrison NA, <u>Brothers KB</u>. Analogies in Genomics Policymaking: Debates and Drawbacks. *American Journal of Human Genetics*. 2020; 107 (5): 797-801.
- 29. **Brothers KB**, Bennett RL, Cho MK. Taking an antiracist posture in scientific publications in human genetics and genomics. *Genetics in Medicine*. 2021; 23 (6): 1004-1007.

Original Research Articles, Co-Author:

- 1. Bryant KA, Humbaugh K, <u>Brothers KB</u>, Wright J, Pascual FB, Moran J, Murphy TV. Measures to Control an Outbreak of Pertussis in a Neonatal Intermediate Care Nursery After Exposure to a Healthcare Worker. *Infection Control and Hospital Epidemiology*. 2006; 27 (6): 542-545.
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