



May 8, 2020

ISCC-PEG: A collaborative approach to education (Education as Solution)

Rich Haspel, MD, PhD
Beth Israel Deaconess Medical Center
Harvard Medical School
Co-Chair ISCC-PEG



**Global Genomic
Medicine Collaborative**

What is the ISCC-PEG?

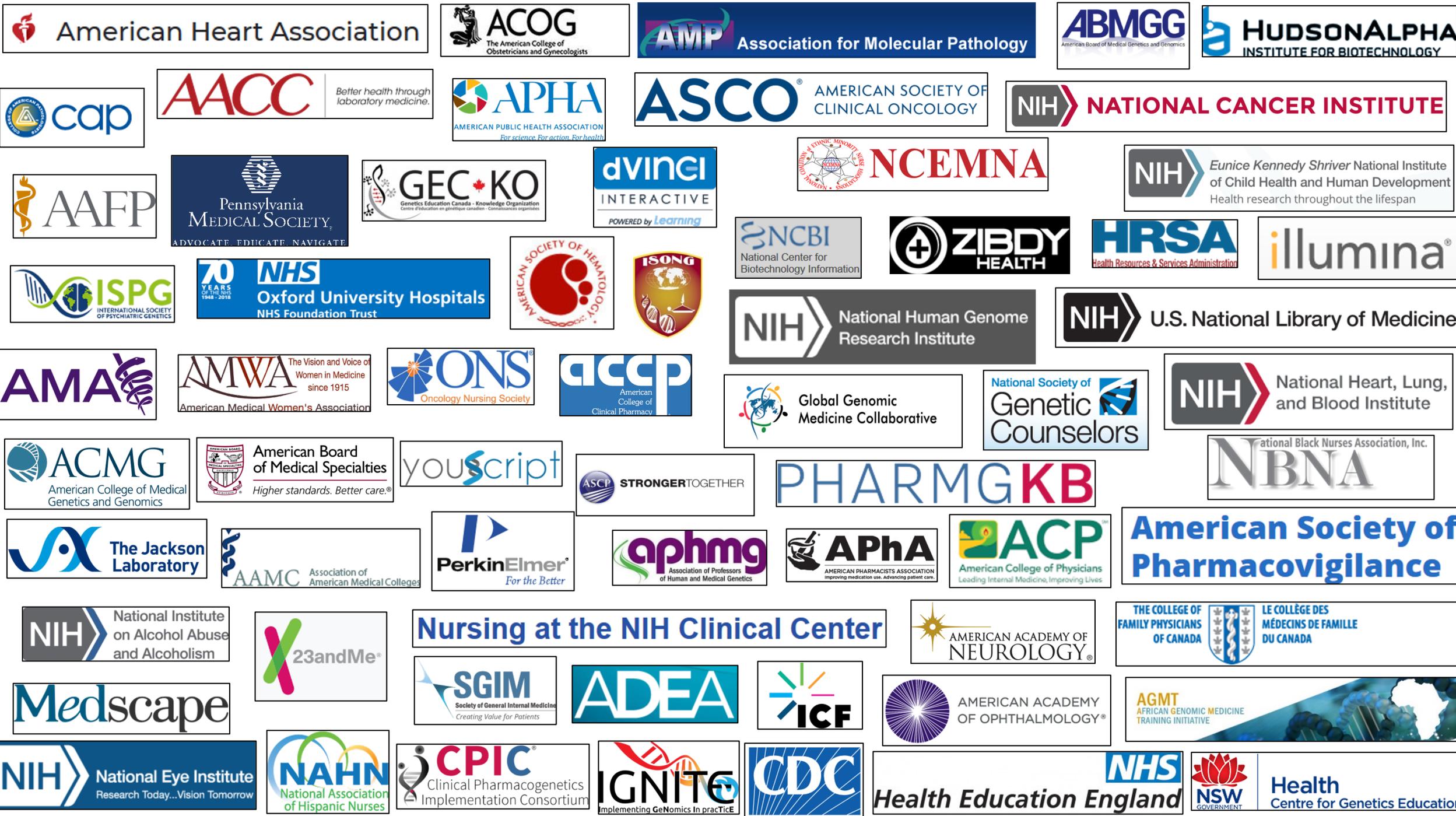
- The Inter-Society Coordinating Committee for Practitioner Education in Genomics (ISCC-PEG)
 - Formed in February 2013 from the Genomic Medicine IV meeting.
 - Supported by the NHGRI Division of Policy, Communications, and Education
 - Education and Community Involvement Branch (ECIB)
- Membership
 - >150 members
 - Representatives from >80 organizations
 - 24 Individual
 - 10 Industry
 - Looking for new members!
 - International!



Donna Messersmith, PhD
Provider Education Specialist



Carla Easter,
PhD
Chief, ECIB



 American Heart Association

 ACOG
The American College of Obstetricians and Gynecologists

 Association for Molecular Pathology

 American Board of Medical Genetics and Genomics

 HUDSONALPHA
INSTITUTE FOR BIOTECHNOLOGY

 cap

 AACC
Better health through laboratory medicine.

 APHA
AMERICAN PUBLIC HEALTH ASSOCIATION
For science. For action. For health.

 ASCO
AMERICAN SOCIETY OF CLINICAL ONCOLOGY

 NIH
NATIONAL CANCER INSTITUTE

 AAFP

 Pennsylvania MEDICAL SOCIETY
ADVOCATE. EDUCATE. NAVIGATE.

 GEC-KO
Genetics Education Canada - Knowledge Organization
Centre d'éducation en génétique canadien - Connaissances organisées

 dVINCI
INTERACTIVE
POWERED by Learning

 NCEMNA

 NIH
Eunice Kennedy Shriver National Institute of Child Health and Human Development
Health research throughout the lifespan

 ISPG
INTERNATIONAL SOCIETY OF PSYCHIATRIC GENETICS

 NHS
70 YEARS OF THE NHS 1948-2018
Oxford University Hospitals
NHS Foundation Trust

 AMERICAN SOCIETY OF HEMATOLOGY

 ISONG

 NCBI
National Center for Biotechnology Information

 ZIBDY HEALTH

 HRSA
Health Resources & Services Administration

 illumina

 NIH
National Human Genome Research Institute

 NIH
U.S. National Library of Medicine

 AMA

 AMWA
The Vision and Voice of Women in Medicine since 1915
American Medical Women's Association

 ONS
Oncology Nursing Society

 ACCP
American College of Clinical Pharmacy

 Global Genomic Medicine Collaborative

 National Society of Genetic Counselors

 NIH
National Heart, Lung, and Blood Institute

 ACMG
American College of Medical Genetics and Genomics

 American Board of Medical Specialties
Higher standards. Better care.®

 youScript

 ASCP STRONGERTOGETHER

 PHARMGKB

 National Black Nurses Association, Inc.
NBNA

 The Jackson Laboratory

 AAMC
Association of American Medical Colleges

 PerkinElmer
For the Better

 aphmg
Association of Professors of Human and Medical Genetics

 APhA
AMERICAN PHARMACISTS ASSOCIATION
Improving medication use. Advancing patient care.

 ACP
American College of Physicians
Leading Internal Medicine. Improving Lives.

 American Society of Pharmacovigilance

 NIH
National Institute on Alcohol Abuse and Alcoholism

 23andMe

 Nursing at the NIH Clinical Center

 AMERICAN ACADEMY OF NEUROLOGY

 THE COLLEGE OF FAMILY PHYSICIANS OF CANADA
 LE COLLÈGE DES MÉDECINS DE FAMILLE DU CANADA

 Medscape

 SGIM
Society of General Internal Medicine
Creating Value for Patients

 ADEA

 ICF

 AMERICAN ACADEMY OF OPHTHALMOLOGY

 AGMT
AFRICAN GENOMIC MEDICINE TRAINING INITIATIVE

 NIH
National Eye Institute
Research Today... Vision Tomorrow

 NAHN
National Association of Hispanic Nurses

 CPIC
Clinical Pharmacogenetics Implementation Consortium

 IGNITE
Implementing GeNomics In praCTICE

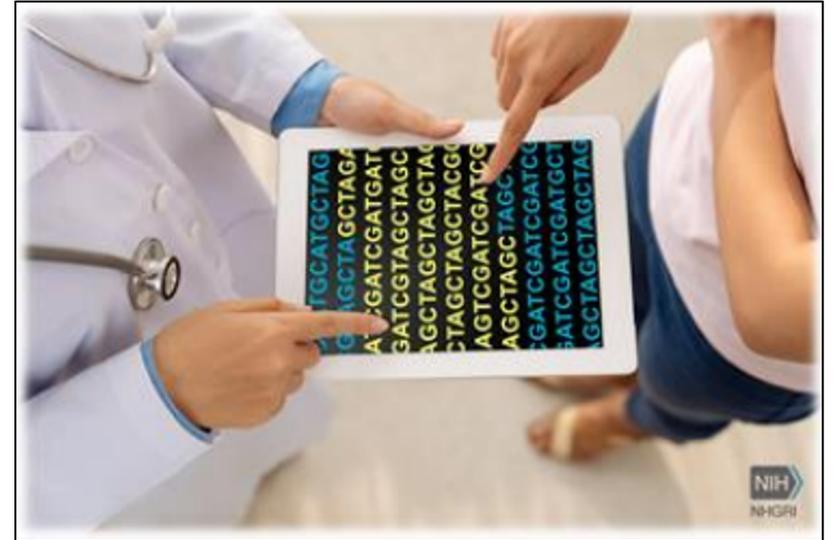
 CDC

 NHS
Health Education England

 NSW GOVERNMENT
Health Centre for Genetics Education

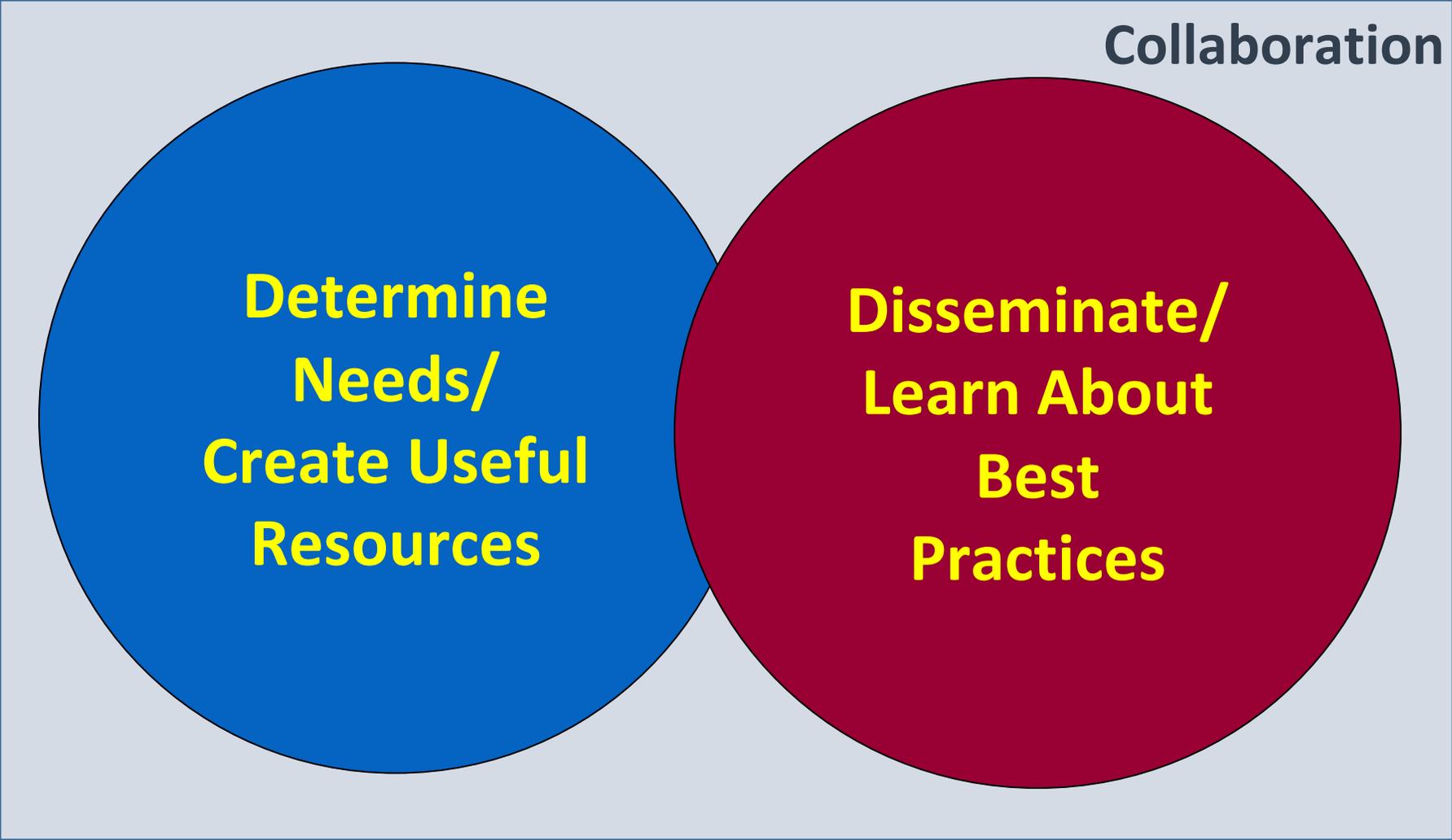
ISCC-PEG: How it works

- One NHGRI and one outside co-chair
 - Carla Easter and me
- Membership
 - Organizational/Institute
 - Individual
 - Industry
 - “Policy for Ensuring Independence in ISCC Activities”
- No dues
- Conference calls every other month
 - Members provide intros/updates
 - Project group updates
- In-person meeting once a year
 - At NIH
 - Can call in
- Website
- Project groups have conference calls
- Compendium updates twice a year



genome.gov/ISCC

Goal of ISCC: Improve Genomic Literacy



© DESPAIR.COM



COMMITTEES

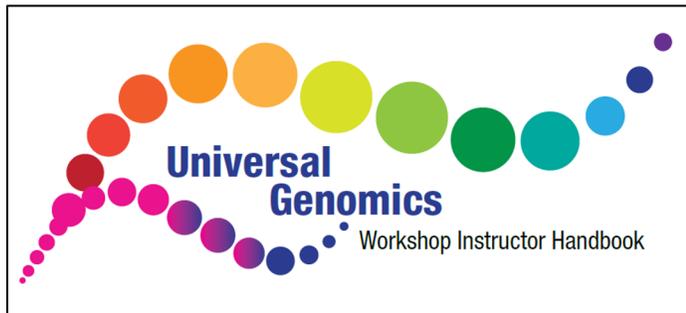
JUST LIKE TEAMWORK. ONLY WITHOUT THE WORK.

ISCC has created useful resources

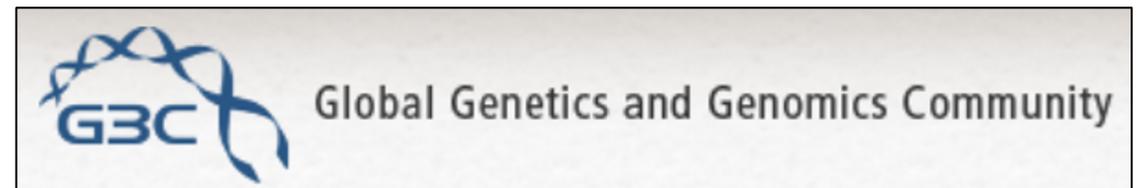
- Developed competencies
- Educational resources
 - Webinars
 - Educational tools/cases
 - Contributing to existing projects

Framework for development of physician competencies in genomic medicine: report of the Competencies Working Group of the Inter-Society Coordinating Committee for Physician Education in Genomics

Genet Med. 2014 Nov;16(11):804-9.



PATIENT TREATMENT BASED ON GENOMIC RESULTS	
EPA: Use genomic information to make treatment decisions.	Systems-based practice
Patient care	<ul style="list-style-type: none">• “Treat the patient who has the disease,” i.e., be aware of the patient’s needs as an individual who also has a genetic disease or pharmacogenomic variation.
<ul style="list-style-type: none">• Identify medical conditions and drug responses that have a strong genetic component;• Recognize that variants affecting drug responses found in a patient may also have implications for other family members; and• Discern the potential clinical impact of genetic variation on risk stratification and individualized treatment.	Interprofessional collaboration
Knowledge for practice	<ul style="list-style-type: none">• Recognize potential involvement of multiple organ systems in genetic disorders and therefore appreciate the need to seek appropriate consultation with experts in the field; and• Make medical and genetic information available to other health-care professionals, upon obtaining proper consent, while keeping the patient’s interests as the primary priority.



The Compendium: Sharing ideas and resources

Table of Contents

Accreditation Council for Continuing Medical Education (ACCME)	5
African Genomic Medicine Training Initiative	7
American Academy of Family Physicians (AAFP)	9
American Association for Clinical Chemistry (AACC)	10
American Board of Medical Specialties (ABMS).....	12
American College of Clinical Pharmacy (ACCP)	14
American College of Medical Genetics and Genomics (ACMGG)	16
American College of Obstetricians and Gynecologists (ACOG)	17
American Heart Association (AHA)	18
American Society of Human Genetics (ASHG)	19
American Thoracic Society (ATS)	20
Association for Molecular Pathology (AMP)	22
Association of Professors of Human and Medical Genetics (APHMG)	23
Centers for Disease Control and Prevention (CDC), Office of Public Health	

Compendium Entry (Blank form for new entries or updates)

Name of Organization:

- 1) Name of Individual(s) Submitting Entry:
- 2) List and briefly describe your organization's active educational programs/best practices/initiatives/resources related to genomics education. Please include any relevant links. Place an asterisk next to any resources you would consider for inclusion in G2C2 (the genomics educational repository at <http://genomicseducation.net/>).
- 3) Would someone be interested in presenting your organization's educational programs/best practices/initiatives/resources during an ISCC plenary call or face-to-face meeting? If yes, please indicate topic, who might present, and whether there is a preference for a call or face-to-face meeting.
- 4) Would someone in your organization be interested in leading a project? If yes, please describe project including deliverable(s), opportunities for collaboration and who might lead the project.
- 5) Would someone in your organization be interested in leading a discussion related to issues/best practices in genomics education during an ISCC plenary call or face-to-face meeting? If yes, please describe topic, who might lead a discussion, and whether there is a preference for a call or face-to-face meeting.
- 6) Other ideas for ISCC: please include additional potential projects, discussions and opportunities for collaboration (even if someone in your organization would not be interested in leading).

ISCC Project Groups: Not just talk

- **Inclusion in the Practice of Genomic Medicine** (Shoumita Dasgupta, PhD)
- **Pharmacogenomics** (Andrew Monte, MD and Phil Empey, PharmD, PhD)
- **Direct-to-Consumer Genetic Testing** (Tracey Weiler, PhD and Heewon Lee, MS, LGC)
- **Rare Diseases** (Michelle Snyder, MS, CGC)

- New project group members and ideas welcome!
- Possibility of a collaboration between G2MC Education Working Group and ISCC?

ISCC-PEG: Education as Solution

- Diverse and large membership
 - Organizations
 - Institutes
 - Industry
 - Individuals
- A forum for discussion
- Developing collaborative resources
- New members/project groups welcome including international!
 - Possible ISCC/G2MC collaboration?
- Thanks
 - NHGRI
 - Carla Easter, Donna Messersmith, Christina Daulton, Sherese Teixeira, Laura Rodriguez, Larry Brody and Teri Manolio
 - All ISCC-PEG members
 - G2MC

Inter-Society Coordinating Committee for Practitioner Education in Genomics (ISCC)



Email: ISCC-NHGRI@nih.gov.

<https://www.genome.gov/ISCC>

