ISCC-PEG: Annual Meeting 2022 Roadmap

Rich Haspel, MD, PhD

Beth Israel Deaconess Medical Center Harvard Medical School Co-Chair ISCC-PEG

February 16, 2022



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Thanks to our members and NHGRI for your support!!

Carla Easter, Christina Daulton, Rosann Wise, Belen Hurle, Sherese Teixeira, Tasha Stewart, and Larry Brody

Google Drive with useful info (e.g., minutes, presentations):

https://drive.google.com/drive/folders/1DzKzTvNXILTHsA UgoabkQ3sphy6AKk?usp=sharing



-Everything recorded (except Working Sessions)-Slides will be available







































































Australian Genomics





U.S. National Library of Medicine





























LE COLLÈGE DES

DU CANADA

MÉDECINS DE FAMILLE





Translational Sciences































- Representation from: 79 organizations, 45 government/institute, 14 companies, and 130 individuals (26 of whom are students/Scholars)
- Welcome to 50 new members since last in-person meeting!
 - Individual (44): Abraham, Veronica Alexandra; Antonacci-Fulton, Lucinda; Baker, Kellan; Berro, Tala; Bohnert, Kelsey; Brazeau, Dan; Clowes Candadai, Sarah; Dewell, Sarah; Dungan, Jennifer R.; Emrick, Lisa; Ferrand, Lisa; Gillentine, Madelyn; Glenn, Kanesha; Graves, Letitia; Gropman, Andrea; Haga, Susanne; Himes, Deborah; Holm, Nichole; Jamal, Leila; Keddis, Mira; Lucas, Ruth; Malone Jenkins, Sabrina; Mangold, Kara; Mann, Sylvia; Mathis, Holly; McKenna, Danielle; Murthy, Vinaya; Ojukwu, Kenechukwu; Oladayo, Abimbola Muinat; Pagliuso, Delaney; Palmquist, Rachel; Press Callahan, Katharine; Quinteros Espinoza, Badí Israel; Roth, Sarah; Squire, Audrey; Tamraz, Bani; Terry, Alissa; Walker, Trina; Wand, Hannah; Ward, Linda; Whitt, Karen; Wilder, Jennifer; Williams, Kaylee; Zayhowski, Kim
 - <u>Government and Organizations (5):</u> Barfield, Whitney (National Cancer Institute (NCI/NIH); Cowan, Brenda (Association of Child Neurology Nurses (ACNN)); Hobbs, Charlotte (Rady Children's Institute for Genomic Medicine); Patterson, Wesley (Greenwood Genetics Center (GGC)); Wees, Kristi (Mountain States Regional Genetics Network (MSRGN))
 - Industry (1): Ashcraft, Kristine (Invitae)





PROFESSIONAL DEVELOPMENT PROGRAMS

ISCC-PEG Scholars Program: A Genomics Education Opportunity >

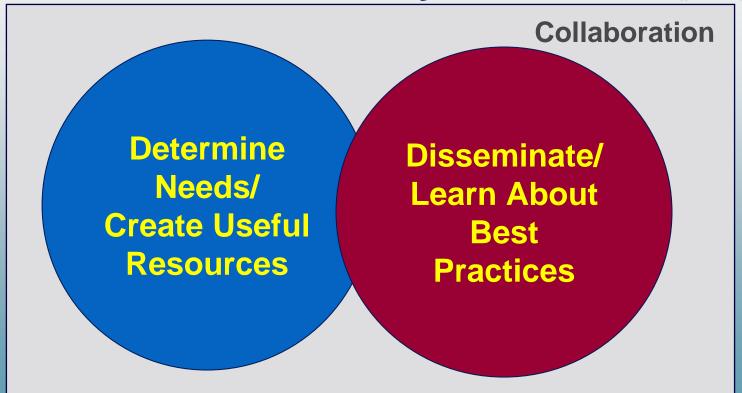
Now in second year!

- Currently 8 Scholars
 - 4 new this year
- Paired with ISCC-PEG member mentor to work on project
 - 2 years
- Travel to ISCC-PEG Annual Meeting
- Many thanks to all our mentors!

Scholar	Affiliation, Degree in Progress	Mentor(s)	Affiliation	ISCC-PEG Project Group	
2021-2023 Class of Scholars					
Abimbola Muinat Oladayo, BDS, MPH	Department of Preventive and Community Dentistry, College of Dentistry, University of Iowa, MS in Dental Public Health	Louise Wilkins- Haug, MD, PhD	Brigham and Women's Hospital Division Director of Maternal Fetal Medicine and Reproductive Genetics at Brigham and Women's Hospital	OB/GYN Genomics Curriculum Development	
Sarah Roth, BA, MFA, MA	JHU/NIH Genetic Counseling Training Program, Baltimore, MD, ScM in Genetic Counseling, PhD in Anthropology	Audrey Squire, MS, CGC Danielle McKenna, MS, LCGC	Audrey Squire: Seattle Children's Hospital; Danielle McKenna: Penn Medicine	LGBTQI+ Issues in Genomics	
Katharine Press Callahan, AB, MD	The Children's Hospital of Philadelphia and the University of Pennsylvania, Philadelphia, PA, MS in Medical Ethics	Sabrina Malone Jenkins, MD	Assistant Professor of Pediatrics at the University of Utah in the Division of Neonatology	Rare Diseases	
Lisa Ferrand, BS, MS	Barry University, PhD in Nursing	Kathleen Blazer, EdD, MS, CGC	Director Cancer Genomics Education Program Division of Clinical Cancer Genomics City of Hope National Medical Center	DTC-GT	



Goal of ISCC: Improve Genomic Literacy







COMMITTEES

JUST LIKE TEAMWORK. ONLY WITHOUT THE WORK.



Inclusion in the Practice of Genomic Medicine: Exploring the Impact of Implicit Biases Towards Disability (Shoumita Dasgupta, Maya Sabatello):

<u>See the free Patient-Centered Prenatal Genetic Counseling resource</u> on the BU/CME website.

- Published in <u>PLoS One</u>: "Exploring the impact of patient centered counseling training on physical disability bias in the prenatal setting."
- Featured in inaugural <u>ACMG DEI/health disparities symposium</u>.



Pharmacogenomics (Andrew Monte, Phil Empey):

EVENT: American Academy of Family Physician's 2021 Family Medicine Experience ("FMX"), Oct. 2, 2021

- TITLE: "Pharmacogenetics: Basic Concepts and Practical Application"
- SPEAKERS: Robert J. Ostrander, MD, AAFP Liaison to ISCC PEG and Roseann S. Gammal, PharmD, BCPS

EVENT: American Academy of Family Physician's 2022 Family Medicine Experience ("FMX"), Fall, 2022



Direct-to-Consumer Genetic Testing (DTC-GT) (Tracey Weiler, Houriya Ayoubieh):

Published on Genome.gov: <u>See the Direct-to-Consumer Genetic Testing FAQ for Healthcare Professionals</u>

 Published ASHG 2021 Poster: "Addressing the Direct-to-Consumer Genetic Testing Knowledge Gap for Non-Genetics Healthcare Professionals"

EVENT: Panel presentation scheduled for 2022 ACMG Plenary Session: "Developing Recommendations for the Application of Direct-to Consumer Genetic Testing in Clinical Care"



Rare Diseases (Michelle Snyder and Sabrina Malone Jenkins):

EVENT: Pediatric Academic Societies Meeting, Sept. 21, 2021

- TITLE: "Training Next Generation Pediatricians in Genomics: A Case Study Approach"
- PRESENTERS: Michelle Snyder, MS, CGC, Luca Brunelli, MD, PhD, John Carey, MD, MPH, Kristen Fishler, MS, CGC, Rich Haspel, MD, PhD, Sabrina Malone Jenkins, MD, Rachel Palmquist, MS,CGC



2021 New Project groups:

- Obstetrics and Gynecology (OB/GYN) Genetics Curriculum (Barbara O'Brien, Louise Wilkins-Haug)
- Adult Cardiovascular Genomics (Siddharth Prakash)

LGBTQI+ Issues in Genomics (Kellan Baker, Leila Jamal)

Nursing Genomics (Trina Walker, Anne Ersig)



Project Groups: Some thoughts...

- "Project Group" vs. "Working Group"
- Consider:
 - Dissemination
 - Where will the resource "live"?
 - Organization listservs
 - Apply to present at an organization's annual meeting
 - Example: Rare Disease Project Group and Pediatric Academic Societies Meeting
 - Funding/Salary Support
 - R25 grants from NHGRI and NCI
 - Evaluation/Publication
 - Example: Inclusion in the Practice of Genomic Medicine study
- Keep in mind COI, Material Review and Dissemination Policies (on website)
- Note the value of participation in Project Group by a member of professional organization. Example: Bob Ostrander from AAFP.



NHGRI funding opportunities for training and career development



- Genomic Curriculum Development for Medical Students (R25)
- Target Audience: Medical Students NHGRI Short Courses
- for Genomics-Related Research Education (R25)
- Target Audience: Clinicians



Training/career development for practitioners

- Mentored Research Experiences for Genetic Counselors (R25)
- Target Audience: MSlevel Genetic Counselors
- Short Term Mentored research Career Enhancement Award to Promote Diversity (K18)
- Target Audience: faculty members



Fraining/career development for future clinical researchers

- Predoctoral to Postdoctoral Transition Award to Promote Diversity (F99/K00)
 - Target Audience: Ph.D. students
- Predoctoral to Postdoctoral Transition Award to Promote Diversity (F99/K00)
 - Target Audience: Ph.D. students
- Research Experience in Genomic Research for Data Scientists (R25)
- Target Audience: MS Data Scientists
- Genome Research Experiences to Attract Talented Undergraduates into the Genomic Field to Promote Diversity (GREAT) program (R25)
- Target Audience: Undergraduates



Examples of funded grants

 Genomic Competencies for Nurses from Theory to Application: An Online Long Course (R25)

(https://www.duq.edu/academics/schools/nursing/faculty/grants/genomic-competencies-for-nurses-from-theory-to-application-an-online-course)

An Immersive Experience in Medical Genomics (R25)

(https://www.childrensmercy.org/childrens-mercy-research-institute/research-areas/genomic-medicine-center/genomic-medicine-short-course/)

 Translation and Integration of Genomics is Essential to Doctoral Nursing: "TIGER" (R25)

(https://www.aacnnursing.org/Faculty/Faculty-News/View/ArticleId/25038/Application-TIGER-Translation-and-Integration-of-Genomics-is-Essential-Doctoral-NuRsing)



NHGRI Updates

- Updated ISCC-PEG homepage: https://www.genome.gov/iscc
- New on genome.gov:
 - DTC-GT FAQ: https://www.genome.gov/For-Health-Professionals/Provider-Genomics-Education-Resources/Healthcare-Provider-Direct-to-Consumer-Genetic-Testing-FAQ
 - Policy Branch: https://www.genome.gov/about-genomics/policy-issues, including new webpages on Informed Consent
 - MINC: https://www.genome.gov/minc
- Healthcare Professionals Genomics Education Week: June 2022
- Sharing announcements related to genomics education:

https://docs.google.com/spreadsheets/d/1ixiPLiCK-5P8ip-kAOY-K6HuoKXf-uNQ/edit#gid=1705622299



The Compendium: Sharing ideas and resources

African Genomic Medicine Training Initiative	9
American Academy of Family Physicians (AAFP)	11
American Academy of Ophthalmology (AAO)	12
American Association for Clinical Chemistry (AACC)	13
American Board of Medical Specialties (ABMS)	15
American College of Clinical Pharmacy (ACCP)	17
American College of Medical Genetics and Genomics (ACMG)	19
American College of Obstetricians and Gynecologists (ACOG)	20
American Heart Association (AHA)	21
American Medical Association (AMA)	23
American Medical Women's Association (AMWA)	25

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.
- 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).



Interested in genomics education? Join ISCC-PEG!

- Inter-Society Coordinating Committee for Practitioner Education in Genomics (ISCC-PEG)
 - Over 200 Members: Open to individuals, organizations, and industry interested in healthcare provider genomics education
 - Supported by NHGRI
 - Free to join!
 - Collaborate to:
 - Identify educational needs and potential solutions
 - Share best practices in educational approaches
 - · Develop educational resources.
 - Scholars program:
 - Student opportunity: Work on a genetics/genomicsrelated education project under the mentorship of an ISCC-PEG member.
 - Two year appointment
 - Travel funded for the annual ISCC-PEG in-person meeting



Please visit: genome.gov/iscc

Using Padlet

- Go to link: <u>bit.ly/isccpeg2022</u>
- Just double click on the screen to add a new post
 - Can add pictures and links
- Can click "add comment" to comment on a previous post
- We'd like to know:
 - What do you like about ISCC-PEG?
 - What ideas and suggestions to you have for ISCC-PEG?
 - To discuss during wrap-up and in future
- Note: Use chat for in-session comments



Agenda

11:30 a.m. – 12:00 p.m. Welcome and Introductions, ISCC-PEG Co-Chairs Rich Haspel, M.D., Ph.D., Beth Israel Deaconess Medical Center and Donna Messersmith, Ph.D., Education and Community Involvement Branch, NHGRI



12:00 p.m. - 1:00 p.m. ISCC-PEG Scholar Presentations

Samantha Bailey, University of Pittsburgh School of Pharmacy: *Disseminating pharmacogenomic education:* understanding the needs of ISCC-PEG partner organizations



Rene Begay, Johns Hopkins School of Public Health: *G3C Case Study: Providing Healthcare for Indigenous Patients with Inherited Cardiomyopathy*

Kelsey Ellis, The University of North Carolina at Greensboro, Genetic Counseling: *Developing an App for Non-Genetics Providers Working with Rare Disease Patients*

Katherine Robinson, St. Jude Children's Research Hospital: *Optimizing Oncology Care With Germline Pharmacogenomics: Case-Based Education for Oncology Practitioners*



bit.ly/isccpeg2022

1:00 p.m. – 1:45 p.m. Break; 1:00 p.m. – 1:30 p.m. Optional break-out room to network

1:45 p.m. - 3:45 p.m. Working Sessions (break-out rooms)

3:45 p.m. – 4:30 p.m. Project Group Summaries and "Asks" of ISCC Membership

-Everything recorded (except Working Sessions)

-Slides will be available

4:30 p.m. – 5:30 p.m. Keynote Presentation: "Advancing the Equitable Implementation of Genomics into Clinical Care", Mr. Vence Bonham, acting deputy director for NHGRI and an associate investigator in NHGRI's Social and Behavioral Research Branch



Working sessions: Feel free to join even if not a Project Group member (industry members can also attend)