



Global Genomic
Medicine Collaborative

6th International Virtual G2MC Conference
Genomic Medicine Implementation in Low Resources Settings

September 29 - October 1, 2021

Starting at 11:00 UTC daily

DAY 1: SEPTEMBER 29, 2021

11:00-11:05 UTC

G2MC 6th International G2MC Conference
Welcoming Remarks and Opening Statements

Bruce Korf, MD, PhD

University of Alabama, USA

Gabriela Repetto, MD

Universidad del Desarrollo, Chile

11:05-11:20 UTC

Keynote Address

Charles Rotimi, PhD

National Human Genome Research Institute, USA

11:20-11:25 UTC

Live Q&A

Session I: Young Investigator Forum

Moderators:

Stefania Koutsilieris, PhD, Karolinska Institute, Sweden

Nirmala Sirisena, PhD, University of Colombo, Sri Lanka

11:25-11:30 UTC

Introduction

Nirmala Sirisena, PhD, University of Colombo, Sri Lanka

11:30-12:40 UTC

Young Investigator (YI) Presentations

11:30-11:40 UTC

Rodrigo Andaur, PhD, Comisión Chilena de Energía Nuclear,
Chile

11:40-11:50 UTC

Emma Rey-Jurado, PhD, University del Desarrollo, Chile

11:50-12:00 UTC

Eduardo Pérez-Palma, PhD, University del Desarrollo, Chile

12:00-12:10 UTC

Megan Lynch, University of Maryland, Baltimore

12:10-12:20 UTC

Atanu Kumar Dutta, MD, All India Institute of Medical Sciences,
Kalyani, India

12:20-12:30 UTC

Thillainathan Kobika, University of Jaffna, Sri Lanka

12:30-12:40 UTC

Tania Vasquez-Loarte, MD, MPH, Wyckoff Heights Medical
Center, USA

12:40-13:00 UTC	BREAK
13:00-13:05 UTC	Introduction Stefania Koutsilieri, PhD , Karolinska Institute, Sweden
13:05-13:45 UTC	Continued: Young Investigator Presentations
13:05-13:15 UTC	Evelin González, BS , University del Desarrollo, Chile
13:15-13:25 UTC	Boris Rebolledo-Jaramillo, PhD , University del Desarrollo, Chile
13:25-13:35 UTC	Eduardo Pérez-Palma, PhD , University del Desarrollo, Chile
13:35-13:45 UTC	Desalyn Johnson , University of Alabama at Birmingham, USA
13:45 - 14:05 UTC	Career Development Panel Moderator: George Patrinos , University of Patras, Greece Maximilian Muenke, MD, FACMG , American College of Medical Genetics and Genomics, USA Claudia Gonzaga-Jauregui, PhD , International Laboratory for Human Genome Research, Mexico Heidi Rehm, PhD , Massachusetts General Hospital, USA Alison Motsinger-Reif, PhD , National Institute of Environmental Health Sciences, USA Vinicius Maracajá-Coutinho , Universidad de Chile, Chile
14:05-15:05 UTC	NETWORKING BREAK Young Investigator Virtual Poster Session Virtual Sponsor Booths

Session II: Harnessing Policy to Drive Inclusive Innovation in Genomic Medicine

Moderators:

Alexandra Pickard, NHS England and NHS Improvement, UK

Catalina Lopez-Correa, MD, PhD, Genome Canada, Canada

15:05-15:10 UTC	Introduction
15:10-15:20 UTC	<i>EULAC PerMed: Widening EU-LAC Policy and Research Cooperation in Personalised Medicine</i> Esther Rodriguez Blanco, PhD Instituto de Salud Carlos III, Spain
15:20-15:30 UTC	<i>Developed Country Policy Presentation</i> Bogi Eliassen, MA Copenhagen Institute for Futures Studies, Denmark
15:30-15:40 UTC	<i>National Cancer Law: Example of Participatory Public Policy on Health Issues</i> Senator Carolina Goic Chilean Christian Democratic Party, Chile
15:40-15:50 UTC	<i>Embedding Genomic Medicine Across the NHS in England</i>

Professor Dame Sue Hill
NHS England and NHS Improvement, UK

15:50-16:25 UTC

Facilitated Panel Discussion
Esther Rodriguez Blanco, PhD
Bogi Eliassen, MA
Senator Carolina Goic
Professor Dame Sue Hill

16:25-16:30 UTC

Session Summary

DAY 2: SEPTEMBER 30, 2021

11:00-11:05 UTC

Keynote Introduction
Gabriela Repetto, MD
Universidad del Desarrollo, Chile

11:05-11:20 UTC

Keynote Address: *Advancing Diagnosis, Care and Research for Persons with Rare Disorders in Latin America*
Roberto Giugliani, MD, PhD, MSc
Federal University of Rio Grande do Sul, Brazil

11:20-11:25 UTC

Live Q&A

Session III: Evaluating the Evidence for Genomic Medicine Implementation into Clinical Practice

Moderators:

Fahd Al-Mulla, MD, PhD, FRCP, Dasman Diabetes Institute, Kuwait

Marc Abramowicz, MD, PhD, University of Geneva, Switzerland

11:25-11:30 UTC

Introduction

11:30-11:45 UTC

Randomized Trials for Genomic Medicine Evidence Generation
Jason Vassy, MD, MPH, MS
Harvard Medical School at VA Boston Healthcare System
Brigham and Women's Hospital, Ariadne Labs, USA

11:45-12:00 UTC

The Importance of Evidence Based Guidelines at the American College of Medical Genetics and Genomics
Maximilian Muenke, MD, FACMG
American College of Medical Genetics and Genomics, USA

12:00-12:15 UTC

L·OVE Platform: Combining Artificial and Collective Intelligence to Transform Data into Knowledge
Gabriel Rada, MD
Epistemontos Foundation, Chile

12:15-12:45 UTC	Facilitated Discussion Panel Jason Vassy, MD, MPH, MS Maximilian Muenke, MD, FACMG Gabriel Rada, MD
12:45-12:50 UTC	Session Summary
12:50-14:20 UTC	NETWORKING BREAK
12:50-13:40 UTC	Live Sponsorship Presentations Moderator: Ricardo Armisen, MD, PhD , Universidad del Desarrollo, Chile <i>ClinPharmSeq: A Targeted Sequencing Panel for Clinical Pharmacogenetics Implementation</i> Seung-been “Steven” Lee, PhD MacroGen Inc., Korea <i>Cost Effectiveness of Genome Sequencing for Pediatric Patients with Undiagnosed Rare Diseases</i> Brock Schroeder, PhD Illumina, USA

Session IV: Lessons Learned from Genomic Medicine Implementation Projects

Moderators:

Vajira Dissanayake, MBBS, PhD, FNASSL, FIAHSI, University of Colombo, Sri Lanka
Alan Shuldiner, Regeneron Pharmaceuticals, USA

14:20-14:25 UTC	Introduction
14:25-14:35 UTC	<i>Family History and the Science of Implementation</i> Lori Orlando, MD, MHS, MMCI Duke Center for Applied Genomics and Precision Medicine, USA
14:35-14:45 UTC	<i>Pharmacogenomics and Genomic Medicine in the United Arab Emirates</i> Bassam Ali, PhD United Arab Emirates University, UAE
14:45-14:55 UTC	<i>Genetics and Genomics in Diverse Populations with Focus on Malformation Syndromes</i> Maximilian Muenke, MD, FACMG American College of Medical Genetics and Genomics, USA
14:55-15:05 UTC	<i>Family History: The Lynchpin of Risk Assessment</i> Lori Orlando, MD, MHS, MMCI Duke Center for Applied Genomics and Precision Medicine, USA

15:05-15:15 UTC	<i>Breast Cancer Genetics – from High-Penetrance/Low Prevalence Mutations to SNP-Based PRS</i> Gad Rennert, MD, PhD Clalit National Israeli Cancer Control Center, Israel
15:15-15:55 UTC	Facilitated Discussion Panel Lori Orlando, MD, MHS, MMCI Bassam Ali Maximilian Muenke, MD, FACMG Gad Rennert, MD, PhD
15:55-16:00 UTC	Session Summary

DAY 3: OCTOBER 1, 2021

11:00-11:05 UTC	Keynote Introduction Gabriela Repetto, MD Universidad del Desarrollo, Chile
11:05-11:20 UTC	Keynote Address (in Spanish): <i>The Role of Patients and Associations in Genomic Medicine Implementation</i> Alba Ancochea Federacion Española de Enfermedades Raras, Spain
11:20-11:25 UTC	Live Q&A

Session V: Preparing the Workforce for Genomic Medicine

Moderators:

Bruce Korf, MD, PhD, University of Alabama, USA
Rich Haspel, MD, PhD, Beth Israel Deaconess Medical Center, USA
Vajira Dissanayake, MBBS, PhD, FNASSL, FIAHSI, University of Colombo, Sri Lanka

11:25-11:30 UTC	Introduction
11:30-11:45 UTC	<i>Supporting Best Practice in Genomics Education: Tools to Apply Theory to Practice</i> Amy Nisselle, PhD Melbourne Genomics, Murdoch Children's Research Institute, Australia Clara Gaff Melbourne Genomics Health Alliance, Australia
11:45-12:00 UTC	<i>Education and Training of Non-Genetics Providers to Scale the Provision of Genomic Medicine</i> Kelly East, MS, CGC

HudsonAlpha, USA

12:00-12:15 UTC

Genetic Counseling Education in Chile: Starting from Scratch Towards Incorporation into the Cancer Law

Sonia Margarit, MS, CGC

Universidad del Desarrollo, Chile

12:15-12:45 UTC

Facilitated Discussion Panel

Amy Nisselle, PhD

Clara Gaff

Kelly East, MS, CGC

Sonia Margarit, CGC

12:45-12:50 UTC

Session Summary

12:50-13:20 UTC

BREAK

Session VI: Innovation in Global Implementation of Genomic Medicine

Moderators:

Geoff Ginsburg, MD, PhD, Duke University Center for Applied Genomics & Precision Medicine, USA

Catalina Lopez-Correa, MD, PhD, Genome Canada, Canada

13:20-13:25 UTC

Introduction

13:25-13:35 UTC

Key Considerations in Designing a Framework for Clinical Adoption of Genomic Medicine: The Singapore National Precision Medicine Program

Tai E Shyong

PRECISE, Singapore

13:35-13:45 UTC

Rare Diseases Program in Chile - What Have We Learned?

Gabriela Repetto, MD

Universidad del Desarrollo, Chile

13:45-13:55 UTC

Silent Genomes: Building the Path to Equitable Genetics Care for Indigenous Children of Canada

Laura Arbour, MD

University of Victoria, Canada

13:55-14:05 UTC

Genomic Characterization and Surveillance of Microbial Threats in West Africa

Christian Happi, PhD

Redeemers' University, Nigeria

Harvard T.H. Chan School of Public Health, USA

14:05-14:15 UTC *Clinical Benefits and Challenges of Implementing Pharmacogenomics into Clinical Care*
Julie Johnson, PharmD
College of Pharmacy, University of Florida, USA

14:15-14:40 UTC **Facilitated Discussion Panel**
Tai E Shyong
Gabriela Repetto, MD
Laura Arbour, MD
Christian Happi, PhD
Julie Johnson, PharmD

14:40-14:45 UTC **Session Summary**

14:45-15:15 UTC **BREAK**

Session VII: Seed Funding Pilot Proposals Presentations

Moderators:

Lovemore Gwanzura, University of Zimbabwe, Zimbabwe

Vajira Dissanayake, MBBS, PhD, FNASSL, FIAHSI, University of Colombo, Sri Lanka

15:15-15:20 UTC **Introduction**
Vajira Dissanayake, MBBS, PhD, FNASSL, FIAHSI

Seed Funding Pilot Proposal Presentations

15:20-16:50 UTC
15:20-15:35 UTC **Claudia Gonzaga-Jauregui, PhD**, International Laboratory for Human Genome Research, Mexico

15:35-15:50 UTC **Meow-Keong Thong, MBBS, MPaeds, MD, FHGSA, FAMM, FASc**, University of Malaya Medical Centre, Malaysia

15:50-16:05 UTC **Nadia Carstens, PhD**, University of the Witwatersrand, South Africa

16:05-16:20 UTC **Pratiksha Gyawali, MBBS, MD**, Dhulikhel Hospital, Nepal

16:20-16:35 UTC **Emmanuel Jairaj Moses, BSc, MSc, PhD**, Universiti Sains Malaysia, Malaysia

16:35-16:50 UTC **Norita Hussein, PhD**, Universiti Malaya, Malaysia

16:50-17:00 UTC **Awards Announcement - YI Presentation and Posters**
Vajira Dissanayake, MBBS, PhD, FNASSL, FIAHSI

17:00-17:10 UTC **Closing Remarks and Next Steps**
6th G2MC International Conference Co-Chairs

Geoff Ginsburg, MD, PhD

Duke University Center for Applied Genomics & Precision Medicine, USA

Catalina Lopez-Correa, MD, PhD

Genome Canada, Canada

Funding for this conference was made possible (in part) by (Grant #1R13HG012147-01) from the National Human Genome Research Institute. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.