

CONFERENCE ORGANIZING COMMITTEE

George P. Patrinos (Patras, Greece; Co-Chair)
 Ambrose Wonkam (Cape Town, South Africa; Co-Chair)
 Vajira Dissanayake (Colombo, Sri Lanka)
 Geoffrey Ginsburg (Durham, NC, USA)
 Bruce Korf (Tuscaloosa, AL, USA)
 Catalina Lopez-Correa (British Columbia, Canada)
 Teri Manolio (Baltimore, MD, USA)
 Raj Ramesar (Cape Town, South Africa)
 Mandy Salomo (Cape Town, South Africa)
 Robyn Ward (Queensland, Australia)
 Grant Wood (Salt Lake City, UT, USA)

YOUNG INVESTIGATORS FORUM PLANNING COMMITTEE

Teri Manolio (Baltimore, MD, USA; Chair)
 Victoria Nembaware (Cape Town, South Africa)
 Cedrik Ngongang (Yaounde, Cameroon)
 Styliani Papadaki (Patras, Greece)
 George P. Patrinos (Patras, Greece)
 Ambrose Wonkam (Cape Town, South Africa)

KEYNOTE SPEAKERS

Vanessa Hayes (Sydney, Australia)
 Dame Sue Hill (London, UK)
 Farmad Imam (San Francisco, CA, USA)

SPEAKERS AND MODERATORS

Marc Abramowicz (Geneva, Switzerland)
 Pilar Carvallo (Santiago, Chile)
 Collet Dandara (Cape Town, South Africa)
 Vajira Dissanayake (Colombo, Sri Lanka)
 Kelly East (Huntsville, AL, USA)
 Ghada El-Kamah (Cairo, Egypt)
 Karimah Es Sabar (Vancouver, Canada)
 Geoffrey Ginsburg (Durham, NC, USA)
 Rich Haspel (Boston, MA, USA)
 Christian Happi Tientcha (Lagos, Nigeria)
 Reinhard Hiller (Cape Town, South Africa)
 Sula Hood (Indianapolis, USA)
 Federico Innocenti (Chapel Hill, NC, USA)
 Puthen Veetil Jithesh (Doha, Qatar)
 Bruce Korf (Tuscaloosa, AL, USA)
 Judit Kumuthini (Cape Town, South Africa)
 Guida Landoure (Bamako, Mali)
 Catalina Lopez-Correa (British Columbia, Canada)
 Glaudina Loots (Cape Town, South Africa)
 Surakameth Mahasirimongkol (Bangkok, Thailand)

Julie Makani (Dar Es Saalam, Tanzania)
 Christina Mitropoulou (London, UK)
 Leon Mutesa (Rwanda)
 Nicola Mulder (Cape Town, South Africa)
 Mohamed Nagy (Cairo, Egypt)
 Gilles Ndayiasaba (Rwanda)
 Victoria Nembaware (Cape Town, South Africa)
 George P. Patrinos (Patras, Greece)
 Elissa Pritchep (San Francisco, CA, USA)
 Ratna Puri (New Delhi, India)
 Alan Rabinowitz (Vancouver, Canada)
 Martin Reese (Oakland, CA, USA)
 Jurgen Reichardt (Quito, Ecuador)
 Gabriela Repetto (Santiago, Chile)
 Jean-Luc Sanne (Brussels, Belgium)
 Fasil Tekola (Bethesda, MD, USA)
 Nicki Tiffin (Cape Town, South Africa)
 Scott Williams (Chicago, IL, USA)
 Ambrose Wonkam (Cape Town, South Africa)
 Grant Wood (Salt Lake City, UT, USA)
 Yonglan Zheng (Chicago, IL, USA)



Global Genomic
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4th Global Genomic Medicine Collaborative Conference
 Genomic Medicine implementation in low-resource settings

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Scientific Program

28-30
 November
 2018

President hotel
 Cape Town
 South Africa

Scientific Program

DAY 1: NOVEMBER 28, 2018

08:00 - 13:00	Registration
Young Investigators Forum (President Ballroom)	
08:00 - 08:05	Welcoming Remarks - Chair, YIF Planning Committee Teri Manolio (Baltimore, MD, USA)
08:05 - 10:55	Young Investigator Presentations
10:55 - 11:10	Break
11:10 - 11:40	Career Development Session Moderator: Teri Manolio (Baltimore, MD, USA) Panel members: Victoria Nembaware (Cape Town, South Africa), Gabriela Repetto (Santiago, Chile), Surakameth Mahasirimongkol (Bangkok, Thailand), Cedric Ngongang (Cape Town, South Africa)
11:40 - 12:00	Young Investigator Flash Talks
12:00 - 13:30	Poster session and Lunch (Location: President Restaurant)
4th G2MC Conference - Main event	
13:30 - 13:45	Welcoming Remarks Glaudina Loots, Director, Department of Science and Technology (DST), Ministry of Science and Technology, South Africa
13:45 - 14:00	Welcoming Remarks G2MC Co-Chairs
Geoff Ginsburg, Director, Duke Center for Applied Genomics and Precision Medicine; Professor of Medicine, Duke University, USA	
George P. Patrinos; Associate Professor of Pharmacogenomics and Pharmaceutical Biotechnology and Head, Laboratory of Pharmacogenomics and Individualized Therapy, University of Patras, Department of Pharmacy, Patras Greece	
14:00 - 14:05	Keynote introduction by <i>George P. Patrinos</i>
14:05 - 14:35	Keynote Lecture #1: Genome diversity in Africa: Lessons and application to genomic medicine Vanessa Hayes, Professor, Garvan Institute of Medical Research, University of Sydney, Australia
14:35 - 16:25	SESSION I: GENOMIC MEDICINE IMPLEMENTATION IN AFRICA Moderator: Ambroise Wonkam, University of Cape Town, South Africa
Genomic Medicine in Africa: Promise Problems, Prospects Ambroise Wonkam, University of Cape Town, South Africa	
Neurogenomics in Mali Guida Landouere, University of Bamako, Mali	
Advancement of medical genetics and Genomic Medicine in Rwanda Leon Mutesa, College of Medicine & Health Sciences, University of Rwanda, Rwanda	
H3Africa and its potential role in African Genomic Medicine Nicola Mulder, H3BioNet, University of Cape Town, South Africa	
Development of Genomic Medicine in Egypt Ghada El-Kamah, National Research Centre, Cairo, Egypt	
Cancer Genomics Initiatives in Africa Yonglan Zheng, University of Chicago, Chicago, IL, USA	
16:25 - 17:05	Panel discussion Moderator: Ambroise Wonkam Panelists: Guida Landouere, Leon Mutesa, Nicola Mulder, Ghada El-Kamah, Yonglan Zheng
17:05 - 17:30	COFFEE BREAK
17:30 - 18:40	SESSION II: GENOMIC MEDICINE IN THE DEVELOPING WORLD Moderator: Catalina Lopez-Correa, Genome British Columbia, Canada
From emerging economies to first nations: Genomic Medicine for ALL Catalina Lopez-Correa, Genome British Columbia, Quebec, Canada	
Path towards an Innovation Economy Karimah Es Sabar, Quark Venture, Vancouver, Canada	
Genomic Medicine in Sri Lanka Vajira H. W. Dissanayake, University of Colombo, Sri Lanka	
Genetics of breast cancer in Chilean women Pilar Carvallo, Pontifical Catholic University of Chile, Chile	
Rare Diseases in Latin America: Challenges and opportunities Gabriela Repetto, Universidad del Desarrollo, Chile	
Reflections of a Biomedical Scientist on 4 Continents in Interdisciplinary Biomedical Research Jurgen Reichardt, Yachay Tech University, San Miguel de Urququi, Ecuador	
18:40 - 19:10	Panel discussion Moderator: Catalina Lopez-Correa Panelists: Juergen Reichardt, Vajira Dissanayake, Gabriela Repetto, Pilar Carvallo, Karimah Es Sabar, Qais Al-Duwairi

20:00 WELCOME COCKTAIL RECEPTION (President Hotel - Swimming Pool area)

DAY 2: NOVEMBER 29, 2018

08:00 - 08:05	Keynote introduction by <i>Geoff Ginsburg</i> (Location: President Ballroom)
08:05 - 08:35	Keynote Lecture #2: A multiomics approach to identify predictive biomarkers and new biology for preterm birth and related newborn mortality contributors using cohorts from Africa and South Asia Farhad Imam, Senior Program Officer, Bill & Melinda Gates Foundation
08:35 - 10:05	SESSION III: GENOTYPING COST-EFFECTIVENESS ACROSS THE WORLD Moderator: Nicola Mulder, University of Cape Town, South Africa
Precision Medicine in Thailand Surakameth Mahasirimongkol, Ministry of Public Health, Thailand	
Design of the H3Africa array for African populations Nicola Mulder, H3BioNet, University of Cape Town, South Africa	
Comparing cost-effectiveness of South Africa to the rest of the world Reinhard Hiller, Center for Proteomic & Genomic Research, South Africa	
Determining the value of pharmacogenomics evidence Christina Mitropoulou, The Golden Helix Foundation, London, UK	
09:45 - 10:15	Panel discussion Moderator: Nicola Mulder Panelists: Surakameth Mahasirimongkol, Reichardt Hiller, Christina Mitropoulou
10:15 - 10:45	BREAK
10:45 - 12:05	SESSION IV: GENOMIC MEDICINE AND INFECTIOUS DISEASES Moderator: Raj Ramesar, University of Cape Town, South Africa
Genomics and the Control of Ebola Epidemic Christian Happi Tientcha, Redeemer's University, Nigeria	
Genomics and Podoconiosis: Public Health translation to improve child health in a low-income setting Fasil Tekola, National Institutes of Health (NIH), USA	
Malaria and Sickle Cell Disease Julie Makani, Muhimbili University, Dar Es Saalam, Tanzania	
Co-evolution between Mycobacterium and humans influences tuberculosis severity Scott Williams, Case Western Reserve, USA	
Host genomics and upper respiratory diseases Geoffrey Ginsburg, Duke University, USA	
Microbiome of the placenta in pre-eclampsia Vajira Dissanayake, University of Colombo, Sri Lanka	
12:05 - 12:35	Panel discussion Moderator: Raj Ramesar Panelists: Christian Happi Tientcha, Fasil Tekola, Julie Makani, Scott Williams, Geoff Ginsburg, Vajira Dissanayake
12:35 - 14:00	LUNCH BREAK (Location: President Restaurant) Lunch meeting for Evidence Writing Group (Location: Boardroom) Co-chairs: Marc Abramowicz (Geneva, Switzerland) and Fahd Al-Mulla (Safat, Kuwait)
14:00 - 15:30	SESSION V: PHARMACOGENOMICS Moderator: George P. Patrinos, University of Patras, Patras, Greece
Pharmacogenomics in Africa: Considerations for population health in transition Collet Dandara, University of Cape Town, South Africa	
Ubiquitous pharmacogenomics George P. Patrinos, University of Patras, School of Health Sciences, Patras, Greece	
The Alliance for clinical trials in oncology: A cooperative group to achieve precision oncology through genomics Federico Innocenti, University of North Carolina at Chapel Hill, USA	
Pharmacogenomics data standardisation and governance Judith Kumuthini, Centre for Proteomics and Genomic Research, South Africa	
Population Pharmacogenomics in the Middle East: A perspective from Qatar Puthen Veettil Jithesh, Sidra Medical and Research Center, Qatar	
Challenges of Clinical Pharmacogenomics Implementation and how to overcome Mohamed Nagy, Children's Cancer hospital, Cairo, Egypt	
A European Union perspective on Personalised Medicine Jean-Luc Sanne, European Commission, Brussels, Belgium	
15:30 - 16:30	Panel discussion Moderator: George P. Patrinos Panelists: Collet Dandara, Federico Innocenti, Judith Kumuthini, Put-on Veettil Jithesh, Mohamed Nagy, Jean-Luc Sanne
16:00 - 16:30	Coffee break

16:30 - 17:45 Breakout Group Sessions
i. Education Working Group [President 1] (Moderators: Vajira Dissanayake, Bruce Korf)
ii. Policy Working Group [Boardroom] (Moderators: Dame Sue Hill, Andrea Belcher)
iii. Pharmacogenomics Working Group: Clinical Implementation [President 2] (Moderator: George P. Patrinos)
iv. Pharmacogenomics Working Group: Evidence [President 3] (Moderator: Federico Innocenti)
v. Pharmacogenomics Working Group: Policy [BA lounge] (Moderators: Puthen Veettil Jithesh, Mohamed Nagy)

19:00 Depart for Dinner (meet at hotel lobby)

19:30 DINNER (Gold Restaurant, 15 Bennett Street, Green Point, 8005)

DAY 3: NOVEMBER 30, 2018

07:00 - 08:15	G2MC Steering Committee meeting (by invitation only; Location: President ballroom)
08:25 - 08:30	Keynote introduction by <i>Alan Shuldiner</i>
08:30 - 09:00	Mainstream introduction of genomics across a large public health system Dame Sue Hill, Professor, National Health Service, London, UK
09:00 - 09:15	International Cohorts Summit Geoff Ginsburg, Director, Duke Center for Applied Genomics and Precision Medicine; Professor of Medicine, Biomedical Engineering and Pathology, Duke University, USA
09:15 - 10:35	SESSION VI: PUBLIC ENGAGEMENT IN GENOMIC MEDICINE Moderator: Grant Wood, Intermountain Precision Genomics, Intermountain Health Care, USA
Linking genomic data with administrative health data in a low resource setting Nicki Tiffin, University of Cape Town, Cape Town, South Africa	
Family Health History Awareness: Tools for enhancing genetic literacy Sula Hood, Indiana University-Purdue University Indianapolis, USA	
Artificial-intelligence driven insights for genomic data interpretation in clinical care Martin Reese, Fabric Genomics, USA	
Inferring patient outcomes from the combination of genomic, phenomic and clinical data: A project proposal Marc Abramowitz, Geneva University Hospitals (HUG), Geneva, Switzerland	
Beyond the Heart Center: 21st century Medicine in the real world Alan Rabinowitz, PHEMI Systems, University of British Columbia, Canada	
Updates on HL7 FHIR Genomics and related activities Grant Wood, Intermountain Health Care, USA	
10:35 - 11:05	Audience discussion of the Health IT project ideas presented in this session (Moderated by Grant Wood)
11:05 - 12:15	LUNCH
12:15 - 13:25	SESSION VII: PROFESSIONAL ENGAGEMENT AND WORKFORCE DEVELOPMENT Moderators: Vajira Dissanayake, University of Colombo, Sri Lanka & Bruce Korf, University of Alabama, USA
Genomic Medicine education of medical providers in India Ratna Puri, Sir Ganga Ram Hospital, New Delhi, India	
Competence and Community-Based Genomic Medicine Training in Africa Victoria Nembaware, University of Cape Town, South Africa	
Engaging healthcare providers in the practice of genomic medicine Kelly East, HudsonAlpha Institute of Biotechnology, USA	
The Genomic Medicine workforce: The global landscape Bruce Korf, University of Alabama, USA and Vajira Dissanayake, University of Colombo, Sri Lanka	
Progress in the Inter-Society Coordinating Committee (ISCC) on Practitioner Education in Genomics Rich Haspel, ISCC, Beth Israel Deaconess, USA	
13:25 - 13:55	Panel discussion Moderators: Vajira Dissanayake & Bruce Korf, Panelists: Ratna Puri, Victoria Nembaware, Kelly East, Rich Haspel
13:55 - 14:55	Breakout Group Sessions Report Moderator: Alan Shuldiner (Tarrytown, NY, USA) i. Education Working Group (Vajira Dissanayake, Bruce Korf) ii. Policy Working Group (Dame Sue Hill, Andrea Belcher) iii. Pharmacogenomics Working Group: Clinical Implementation (George P. Patrinos) iv. Pharmacogenomics Working Group: Evidence (Federico Innocenti) v. Pharmacogenomics Working Group: Policy (Puthen Veettil Jithesh, Mohamed Nagy) vi. Evidence Writing Group (Marc Abramowicz, Fahd Al-Mulla)
14:55 - 15:20	Leapfrogging with Precision Medicine Elissa Pritchep, World Economic Forum Gilles Ndayisaba, Rwanda Biomedical Centre, Rwanda
15:20 - 15:35	Young Investigator Poster Awards Announcement
15:35 - 16:00	Closing remarks and Next Steps (from Co-Chairs of the meeting) George P. Patrinos and Ambroise Wonkam
16:00	MEETING ADJOURNS
17:00 - 19:00	G2MC Executive Committee meeting (by invitation only)