



# Global Genomic Medicine Collaborative

## ***G2MC: Implementing Genomic Medicine Globally***

April 27–29, 2017

[DIVANI Apollon Palace & Thalasso](#)

Leof. Vouliagmenis 10, Vouliagmenh, Athens 166 71 GREECE

### DAY 1: APRIL 27, 2017

- |             |  |
|-------------|--|
| 10:00–13:00 | <b><u>Registration [Location: Platon Foyer]</u></b>  |
| 13:00–13:10 | <b><u>Welcoming Remarks [Location: Platon]</u></b><br><b>Geoff Ginsburg</b><br>Director, Duke Center for Applied Genomics & Precision Medicine<br>Professor of Medicine, Biomedical Engineering and Pathology<br>Duke University, USA<br><br><b>Robyn Ward</b><br>Deputy Vice-Chancellor (Research) and Vice President (Research)<br>The University of Queensland, Australia<br><br><b>George P. Patrinos</b><br>Associate Professor of Pharmacogenomics and Pharmaceutical<br>Biotechnology<br>University of Patras, Greece |
| 13:10-13:25 | <b><u>Welcome from Hellenic Association of Medical Geneticists<br/>[Location: Platon]</u></b><br><b>Aspasia Tsezou</b><br>President<br>Hellenic Association of Medical Geneticists, Greece   |
| 13:25-13:55 | <b><u>Keynote Lecture #1 [Location: Platon]</u></b><br><b>Victor Dzau</b><br>President<br>National Academy of Medicine, USA  |

## Session I: Large-Scale National Sequencing Programs: Impact on Clinical Medicine

**Moderator: Alan Shuldiner, Vice President, Regeneron Genetics Center, Regeneron Pharmaceuticals, Inc., USA [Location: Platon]**

- 14:00                    ***The Qatar Genome Program; An Overview***  
**Said Ismail**  
Programme Manager  
Genome Qatar, Qatar
- 14:15                    ***United States: PMI and Million Veterans Program***  
**Teri Manolio**  
Director, Division of Genomic Medicine  
National Human Genome Research Institute, USA
- 14:30                    ***China's Precision Medicine Initiative***  
**Yixue Li**  
Professor  
Shanghai Institutes for Biological Sciences, China
- 14:45                    ***UK: 100,000 Genomes Project***  
**Mark Caulfield**  
Co-Director  
William Harvey Research Institute  
Barts and the London School of Medicine and Dentistry, UK
- 15:00                    ***Australian Genomics Health Alliance: implementing genomics into health care***  
**Andrew Sinclair**  
Deputy Director  
Murdoch Children's Research Institute, Australia
- 15:15                    ***The Clalit Israeli 100K Personalized Medicine RCT***  
**Gad Rennert**  
Director  
Clalit National Israeli Cancer Control Center, Israel
- 15:30                    **Panel discussion**  
**Opening remarks: Chen-Yang Shen**  
Chief Executive  
Taiwan Biobank, Taiwan
- 16:00–16:15           **COFFEE BREAK**

## Session II: Progress in Diagnosing Rare Diseases – International Opportunities

**Moderator: Teri Manolio, Director, Division of Genomic Medicine, National Human Genome Research Institute (USA) [Location: Platon]**

- 16:15                    ***Undiagnosed severe intellectual disability***  
**Joris Veltman**  
Director, Institute of Genetic Medicine  
Newcastle University, UK
- 16:30                    ***Undiagnosed Diseases Network International***  
**Domenica Taruscio**  
Director  
Istituto Superiore di Sanita (ISS), Italy
- 16:45                    ***Next Generation Sequencing for rare pharmacogenomics variants***  
**Magnus Ingelman-Sundberg**  
Professor  
Karolinska Institutet, Sweden
- 17:00                    ***Japan’s Initiative on Rare and Undiagnosed Diseases (IRUD):  
Towards integrative diagnosis network for universal healthcare  
system***  
**Takeya Adachi**  
AMED Program Officer  
Japan Agency for Medical Research & Development (AMED), Japan
- 17:15                    ***Enhanced Care for Rare Diseases Canada***  
**François Bernier**  
Associate Professor, Department of Medical Genetics  
Alberta Children’s Hospital, Canada
- 17:30                    ***The University of Alabama at Birmingham Undiagnosed Diseases  
Program***  
**Bruce Korf**  
Wayne H. and Sara Crews Finley Chair in Medical Genetics  
Professor and Chair, Department of Genetics  
University of Alabama, Birmingham, USA
- 17:45 - 18:15           **Panel discussion**
- 18:30                    **WELCOME COCKTAIL RECEPTION [Location: Swimming Pool]**

## DAY 2: APRIL 28, 2017

- 08:15                    **Opening Remarks [Location: Platon]**  
**Geoff Ginsburg**  
Director, Duke Center for Applied Genomics & Precision Medicine  
Professor of Medicine, Biomedical Engineering and Pathology  
Duke University, USA
- Robyn Ward**  
Deputy Vice-Chancellor (Research) and Vice President (Research)  
The University of Queensland, Australia
- 08:20                    **Keynote Introduction [Location: Platon]**  
**George P. Patrinos**  
Associate Professor of Pharmacogenomics and Pharmaceutical  
Biotechnology, University of Patras, Greece
- 08:25                    **Keynote Lecture #2 [Location: Platon]**  
**Stylios Antonarakis**  
Professor and Chairman of Genetic Medicine  
University of Geneva Medical School, Switzerland

### Session III: National Genomic Medicine Programs: Implementation

**Moderator: Geoff Ginsburg, Director, Duke Center for Applied Genomics & Precision Medicine, Professor of Medicine, Biomedical Engineering and Pathology, Duke University [Location: Platon]**

- 09:00                    **Kuwait Genome Project**  
**Fahd Al-Mulla**  
Director of Genomic Medicine Center and Professor of Molecular  
Pathology  
Kuwait University, Dasman Diabetes Institute, Kuwait
- 09:15                    **Implementing Genomic Medicine in Sri Lanka [pre-taped video presentation]**  
**Vajira Dissanayake**  
Chair & Professor of Anatomy and Medical Geneticist  
University of Colombo, Sri Lanka
- 09:30                    **South America**  
**Gabriella Repetto**  
Director, Center for Genetics and Genomics

- 09:45 Universidad del Desarrollo, Chile  
***The economics of next-generation sequencing***  
**Sarah Wordsworth**  
Associate Professor,  
Oxford University, UK
- 10:00 ***National Scale Precision Medicine in Singapore***  
**Patrick Tan**  
Professor, Cancer and Stem Cell Biology Program  
Duke NUS Medical School, Singapore
- 10:15 ***IGNITE network***  
**Geoff Ginsburg**  
Director, Duke Center for Applied Genomics & Precision Medicine  
Professor of Medicine, Biomedical Engineering and Pathology  
Duke University, USA
- 10:30 **Panel discussion**

#### Session IV: Data Science (with GA4GH)

**Moderators: Peter Goodhand, Executive Director, Global Alliance for Genomics and Health, Grant Wood, Senior IT Strategist, Clinical Genetics Institute at Intermountain Healthcare**  
**[Location: Platon]**

- 11:00 ***Accurate and Rapid WGS Interpretation with Fabric Genomics***  
**Martin Reese**  
Co-founder, President, and Chief Scientific Officer  
Fabric Genomics, USA
- 11:15 ***Clinical contextualization of lab results***  
**Marc S. Williams**  
Director, Genomic Medicine Institute  
Geisinger Health System, USA
- 11:30 ***Oracle Family Health History Project***  
**Summer Kahlon**  
Director, Care Innovation  
Oracle Health Sciences, USA
- Grant Wood**  
Senior Strategist  
Intermountain Healthcare Clinical Genetics Institute, USA

- 11:45 ***Establishing a Longitudinal Genetic/Genomic-Based EHR for Clinical Care***  
**Peter Goodhand**  
President, Ontario Institute for Cancer Research  
Executive Director, Global Alliance for Genomics and Health, Canada
- 12:00 **Q&A with session speakers and audience**  
Discussion topic: What are the issues in your country to accomplish the goals of a longitudinal genomic patient record?
- 12:30 **LUNCH BREAK [Location: Platon foyer]**

### Session V: Policy and Workforce Generation

**Moderator: Robyn Ward, Deputy Vice-Chancellor (Research) and Vice President (Research), The University of Queensland, Australia, and Bruce Korf, Wayne H. and Sara Crews Finley Chair in Medical Genetics, Professor and Chair, Department of Genetics, University of Alabama, Birmingham [Location: Platon]**

- 13:30 ***The Implementation of Genomic Medicine in the NHS in England***  
**Sue Hill**  
Chief Scientific Officer  
NHS England, UK
- 13:45 ***Genomic Test Evaluation Frameworks***  
**Robyn Ward**  
Deputy Vice-Chancellor of Research, and Vice President of Research  
The University of Queensland, Australia
- 14:00 ***Implementing Genomics in the Health Care System in Canada***  
**Catalina Lopez-Correa**  
Chief Scientific Officer and Vice President, Sectors  
Genome British Columbia, Canada
- 14:15 ***More than regulatory challenges for genomic medicine in Latin America***  
**Alberto Lecaros**  
Observatory for BioEthics and Law  
Universidad del Desarrollo  
Santiago, Chile

- 14:30 ***Establishing a Latin American Translational Genomics Institute***  
**Spiros Agathos**  
Dean, School of Life Sciences  
Yachay Tech University, Ecuador
- 14:45 ***Implementation Science Meets Genomic Medicine: Ideas, Issues & Innovations***  
**Jeffrey Braithwaite**  
Professor of Health Systems Research  
Founding Director, Australian Institute of Health Innovation  
Macquarie University, Australia
- 15:00 ***Fostering Genomic Literacy for Today and Tomorrow***  
**Laura Lyman Rodriguez**  
Director, Division of Policy, Communications, and Education  
National Human Genome Research Institute (NHGRI), USA
- 15:15 ***Genomic education for empowering the Multi-Disciplinary Healthcare***  
**Dhavendra Kumar**  
Visiting Professor, Genomic Policy Unit, Faculty of Life Sciences & Education, University of South Wales, UK  
Consultant in Clinical Genetics, University Hospital of Wales, UK
- 15:30 **Panel discussion**
- 16:00 **BREAK**
- 16:15–17:30 **Breakout Sessions**
- A) National Programs: Implementation [Location: Platon]**  
**Chair: Alan Shuldiner**  
Vice President, Regeneron Genetics Center, Regeneron Pharmaceuticals, Inc., USA
  - B) Pharmacogenomics [Location: Platon]**  
**Chair: George P. Patrinos**  
Associate Professor of Pharmacogenomics and Pharmaceutical Biotechnology  
University of Patras, Greece
  - C) Policy [Location: Athina A]**  
**Chair: Robyn Ward**  
Deputy Vice-Chancellor of Research, and Vice President of

Research, The University of Queensland, Australia

**D) Education and Workforce [Location: Athina B]**

**Chair: Bruce Korf**

Wayne H. and Sara Crews Finley Chair in Medical Genetics  
Professor and Chair, Department of Genetics  
University of Alabama, Birmingham, USA

**E) IT/Bioinformatics & Family Health History Project**

**[Location: Poseidon A]**

**Chairs:**

**Peter Goodhand**

President, Ontario Institute for Cancer Research  
Executive Director, Global Alliance for Genomics and Health,  
Canada

**Grant Wood**

Senior Strategist  
Intermountain Healthcare Clinical Genetics Institute, USA

**F) Evidence [Location: Poseidon B]**

**Chairs:**

**Marc Abramowicz**

Professor and Head, Dept. of Medical Genetics  
Université. Libre de Bruxelles, Brussels

**Fahd Al-Mulla**

Director of Genomic Medicine Center and Professor of  
Molecular Pathology  
Kuwait University, Dasman Diabetes Institute, Kuwait

18:00

**Depart for Dinner [meet in hotel lobby]**

Tour of [Acropolis Museum](#)

20:00

**DINNER**

Location: [Acropolis Museum](#)



## DAY 3: APRIL 29, 2017

- 07:00–08:00 **G2MC Steering Committee Meeting (by invitation only)**  
**[Location: Poseidon A]**
- 08:00 **Opening Remarks [Location: Platon]**  
**Geoff Ginsburg**  
Director, Duke Center for Applied Genomics & Precision Medicine  
Professor of Medicine, Biomedical Engineering and Pathology  
Duke University, USA  
**Robyn Ward**  
Deputy Vice-Chancellor of Research, and Vice President of Research  
The University of Queensland, Australia

### Session VI: Pharmacogenomics in the Clinic: International Progress

**Moderator: George P. Patrinos, Assistant Professor of Pharmacogenomics and Pharmaceutical Biotechnology, University of Patras [Location: Platon]**

- 08:10 **Implementation of Pharmacogenomics in the Clinic**  
**Sir Munir Pirmohamed**  
Professor  
University of Liverpool, Wolfson Institute of Personalized  
Medicine, UK
- 08:20 **Genomic Medicine, Safety First**  
**Federico Innocenti**  
Associate Director, Center for Pharmacogenomics & Individualized  
Therapy  
Associate Professor, University of North Carolina Chapel Hill, USA
- 08:30 **The Ubiquitous Pharmacogenomics (UPGx) project**  
**Jesse Swen**  
Associate Professor, Department of Clinical Pharmacy & Toxicology  
Leiden University Medical Center, Netherlands
- 08:40 **PGx Activities in Latin America**  
**Guilherme Suarez-Kurtz**  
Professor

Instituto Nacional de Câncer, Brazil

08:50

**Public Health Pharmacogenomics**

**George P. Patrinos**

Associate Professor of Pharmacogenomics and Pharmaceutical  
Biotechnology

University of Patras, Greece

09:00

**Implementation of PGx in the Austrian Healthcare System**

**Markus Paulmichl**

Medical Advisor

Centre for Health and Bioresources, Austrian Institute of Technology,  
Austria

09:10

**European Society of Pharmacogenomics**

**Ron van Schaik**

Full Professor, Pharmacogenetics

Erasmus Medical Center, Netherlands

09:20

**Pharmacogenomics research and implementation in Africa**

**Collet Dandara**

Professor, Department of Clinical & Laboratory Sciences

University of Cape Town, South Africa

09:30

**The SEAPharm Consortium**

**Wasun Chantratita**

Associate Professor, Department of Pathology

Ramathibodi Hospital, Thailand

09:40

**Panel discussion**

10:15-10:30

**BREAK**

10:30–12:00

**Breakout Reports and Discussion [Location: Platon]**

**Moderator: Geoff Ginsburg**

Director, Duke Center for Applied Genomics & Precision Medicine

Professor of Medicine, Biomedical Engineering and Pathology

Duke University

12:00–13:00

**LUNCH [Location: Swimming Pool]**

**WORKING LUNCH [Location: Poseidon A]**

**(G2MC Steering Committee Meeting - by invitation only)**

## Session VII: Implementation of Genomic Medicine by the Private Sector

**Moderator: Geoff Ginsburg, Director, Duke Center for Applied Genomics & Precision Medicine, Professor of Medicine, Biomedical Engineering and Pathology, Duke University [Location: Platon]**

- 13:15                    ***De novo assembly of Asian diploid genome (AK1)***  
**Changhoon Kim**  
Director, Bioinformatics Institute  
Macrogen, South Korea
- 13:30                    ***The Science May be the Easy Part: Challenges and Solutions in Implementing a Molecular Diagnostic Test***  
**James Wingrove**  
Vice President Technical Operations, Head of Research  
CardioDx, USA
- 13:45                    ***From human genetic insights to drug discovery impact***  
**Nadeem Sarwar**  
President  
Eisai AiM Institute, USA
- 14:00                    ***Genomic Medicine Enabled Through Partnership***  
**David Bentley**  
Vice President and Chief Scientist  
Illumina, UK
- 14:15                    **Closing remarks**  
**Geoff Ginsburg**  
Director, Duke Center for Applied Genomics & Precision Medicine  
Professor of Medicine, Biomedical Engineering and Pathology  
Duke University, USA
- Robyn Ward**  
Deputy Vice-Chancellor (Research) and Vice President (Research)  
The University of Queensland, Australia
- 14:30                    **MEETING ADJOURNS**