



## Regional Meeting

Human Genomics for Health: Enhancing the Impact of Effective Research

15-16 May 2024, *Brasília, Brazil*

Genomics is a rapidly evolving field offering innovative approaches to achieve public health goals. The World Health Organization (WHO) is implementing a program of activities to promote equitable and fair access to genomics technologies for the benefit of people worldwide, as described in the publication, '[Accelerating access to genomics for global health: promotion, implementation, collaboration, and ethical, legal, and social issues: a report of the WHO Science Council](#)'.

As a first step to support accelerating access to genomic knowledge and technologies for Global Health, a two-day in-person regional consultation will be conducted in the Americas. The regional consultation will provide the opportunity to reach a mutual understanding and set the agenda for enhancing the impact of effective research for genomics application in the Americas.

The objectives of the consultation are.

1. to raise awareness amongst Member States and regional stakeholders about the WHO Science Council report.
2. to share experiences and best practices in the implementation of genomic evidence to improve precision of the practice of medicine at individual level and to inform public health strategies at a population level.
3. to identify challenges and feasible strategies for the implementation of genomics in practice and for conducting genomic research in Member States.
4. to create opportunities for linkages and collaborations.

Day 1, Wednesday 15 <sup>th</sup> May		Speakers
8:30	Registration and check in for interpretation services	
<b>Opening</b>		
Moderator: Brazil PAHO		
09:00-9:30	Opening session and remarks	Socorro Gross, PWR BRA  Anna Laura Ross, WHO HQ  Departamento de Ciência e Tecnologia (DECIT), MoH, BRA
<b>Session 1 – Introduction</b>		
Moderator: Ludovic Reveiz (PAHO)		
9:30-10:15	<ul style="list-style-type: none"> <li>• Presentation of the WHO Science Council report on genomics (10')</li> <li>• Introduction from HQ about the genomics program of work and technical advisory group goals (10')</li> <li>• National Program of Genomics and Precision Health – Genomas Brasil (10')</li> </ul> <p>Group Photo</p>	<p>Anna Laura Ross, WHO</p> <p>Elena Ambrosino, WHO</p> <p>Evandro de Oliveira Lupatini, BRA</p>
<b>Coffee &amp; tea</b>		
<b>Session 2A: Implementing genomics in clinical medicine and public health</b>		
Moderators: Iscia Lopes-Cendes (TAG) and Vania Canuto Santos (PAHO)		
10:30- 11:45	<ul style="list-style-type: none"> <li>• Biomarkers and therapeutic interventions in lung cancer - Personalized medicine in Oncology (10')</li> <li>• Rare Diseases: Linking clinical, molecular, bioinformatics and social science (10')</li> <li>• HTA experience in Brazil with new genomic technologies: from horizon scanning to access (10')</li> <li>• Managed Entry Agreements (MEAs) in Argentina and subsequent reevaluation to foster access to genomic technologies (10')</li> <li>• Building an investment case/ economic evaluation for application of genomic technologies in Colombia (10')</li> </ul> <p><b>Q &amp; A</b></p>	<p>Alejandro Ruíz-Patiño, COL</p> <p>Gabriela Repetto, CHL</p> <p>Luciene Bonan, BRA</p> <p>Manuel Donato, ARG</p> <p>Adriana Robayo, COL</p>



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Session 2B: Implementing genomics in clinical medicine and public health - Challenges		
11:45 – 13:00	<p>Interactive:</p> <p><b>What are the specific challenges for implementing human genomics in the Region?</b> <i>The goal of this session would be to collectively develop a table that lists specific challenges (for some / all types of applications, as appropriate)</i></p>	
Lunch		
Session 2C: Implementing genomics in clinical medicine and public health - Strategies		
14:00-15:30	<p>Breakout groups:</p> <p><b>What are the strategies for the identified challenges?</b> <i>The groups will discuss viable strategies and experiences addressing the specific challenges (or cluster of challenges) identified in session 2B.</i></p> <p>Present “strategies and experiences” to their respective groups</p>	<p>Group A (English)</p> <p>Group B (Spanish)</p> <p>Group C (S+E+P)</p>
Coffee and Tea		
Session 2D: Implementing Genomics in clinical medicine and public health - Recommendations		
Moderators – Manuel Saborio (CRI) and Simon Anderson (BRB)		
16:00:16:45	Panel: Experiences and strategies in overcoming challenges for implementing genomics in practice	Panelists (Session 2C group moderators)
Session 3: Future of human genomics		
16:45-17:00	<ul style="list-style-type: none"> <li>The future of gene therapy: from science fiction to reality for LMICs</li> </ul> <p>Conclusion</p>	<p>John Tisdale, USA</p> <p>Secretary Carlos Gadelha, BRA</p>
End of Day 1		

Day 2 – Thursday, 16 <sup>th</sup> May		Speakers/Moderators
8:00	Registration and check in for interpretation services	
<b>Session 4: Conducting genomic research</b>		
Moderators – Sherry Taylor (TAG) and Ricardo Verdugo (CHL)		
08:30-9:45	<ul style="list-style-type: none"> <li>All of Us Research Program (10')</li> <li>Human Cell Map of Latin American Diversity (10')</li> <li>Considerations for developing a national genomic data base and sharing of data in Brazil (10')</li> <li>Pharmacogenomics in oncology (10')</li> <li>The Clinical Genome (ClinGen) Resource (10')</li> </ul> Q & A	Sheri Schully, USA  Andres Moreno-Estrada, MEX  Pablo Ivan Pereira Ramos, BRA  Luis Quiñones, CHL  Erin Ramos, USA
<b>Ethics of genomics data sharing</b>		
Moderator – Carla Saenz (PAHO)		
9:45 – 10:15	<ul style="list-style-type: none"> <li>WHO- Principles for human genome data access, use and sharing (10')</li> <li>Ethical sharing of genomic data (10')</li> </ul> Q & A	Deborah Mascalzoni, (WHO-TAG)  Elena Ghanaim, USA
<b>Coffee &amp; tea</b>		
<b>Session 5: Collaboration for research</b>		
Moderators – Gabriela Repetto (TAG) and Xochtil Sandoval (SLV)		
10:45:12:00	<ul style="list-style-type: none"> <li>Genomic Surveillance Regional Networks for Epidemic and Pandemic Preparedness and Response (10')</li> <li>Latin American Cancer Research Network (LACRN) (10')</li> <li>Latin American Network on Congenital Anomalies (10')</li> <li>GA4GH (10')</li> </ul> Q & A	Lionel Gresh, PAHO  Andrea Llera, ARG  Mariela Larrandaburu, URY  Peter Goodhand, CAN
<b>Lunch</b>		



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### Session 6A: Conducting genomic research - Challenges and Opportunities

13:00:15:00

#### Breakout groups - Challenges and opportunities

*The goal of this session would be to collectively develop a table that lists specific challenges (that may apply to some or all types of research), and to discuss viable strategies for the specific challenges.*

Group A (English)

Group B (Spanish)

Group C (S+E+P)

### Coffee and Tea

### Session 6B: Conducting genomic research-Recommendations

Moderators: Brazil + Jennifer Knight-Madden (JAM)

15:30:16:15

Panel: Key Challenges and Solutions for conducting genomic research

Panelists -(Session 6A group moderators)

### Conclusion

16:15-17:00

- Key actions for Enhancing the Impact of Effective Genomic Research
- The future of genomics in Brazil
- The way forward for the Americas

TAG-G Members

Evandro de Oliveira  
Lupatini, BRA

WHO/PAHO

### End of Day 2