IHCC November Workshop: “IHCC Link”

Geoff Ginsburg
Peter Goodhand
Co-Chairs
Happy Birthday IHCC
Relevant History

- 2015: NIH compiled information on large cohort programs (≥100K participants)
- 2017: HIROs agreed to bring cohorts together, to encourage data sharing, improve efficiencies, & maximize investments
- March 2018: First Cohorts Summit at Duke University
- Summer 2018: Formation of IHCC
- April 2019: Second Cohorts Summit in Iceland
- May 2020 & 2021: Third and Fourth (Virtual) Summits
Goals for IHCC Link

- Review and discuss the IHCC 5-year strategy including each Working Group’s specific Action-Plans for implementation
- Progress of the IHCC pilot projects: Discuss future plans and potential for new collaborations
- Update: Data Science for Health Discovery and Innovation in Africa
- Discuss current data collection methods for both Environmental/Climate and Race/Ethnicity/Ancestry information
- Develop new knowledge of funding agency opportunities including resources and methods for submitting successful grant applications
Achievements 2021

- Completion of 5-year strategic plan
- Submission of NIH U24 for 5 years of funding
- Planning for Wellcome Trust submission (January 2022)
- Chan-Zuckerberg Initiative funding
- Seven cross-cohort projects underway
- International Cohorts Atlas expansion
- Evergreen policy agenda
# Pilot Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>PI</th>
<th>Institution</th>
<th>Funders</th>
<th># cohorts</th>
<th># LMIC cohorts</th>
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<tbody>
<tr>
<td>Polygenic risk scores (PRS)</td>
<td>Hakon Hákonarson (USA)</td>
<td>Children’s Hospital of Philadelphia (CHOP)</td>
<td>NIH &amp; WT</td>
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<td>Exploring the role of genetically determined BMI in infancy, childhood, and early adulthood on colorectal cancer development in later life</td>
<td>David J. Hughes (Ireland)</td>
<td>University College Dublin, International Agency for Research on Cancer (IARC), University of Texas</td>
<td>NIH &amp; WT</td>
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<td>High-Throughput Metabolomic Biomarker Measures in Diverse Ancestries</td>
<td>Hakon Hákonarson (USA)</td>
<td>Children’s Hospital of Philadelphia (CHOP)</td>
<td>NIH &amp; WT</td>
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<td>3</td>
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<td>Opioid cohort consortium (OPICO) to investigate the effects of regular opioid use on mortality and on cancer development</td>
<td>Paul Brennan (France)</td>
<td>International Agency for Research on Cancer (IARC)</td>
<td>NIH &amp; WT</td>
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<td>Global Mental Health Impact of the COVID-19 Pandemic</td>
<td>Jordan Smoller (USA)</td>
<td>Massachusetts General Hospital, Oxford University, University of Sao Paulo Medical School</td>
<td>NIH &amp; WT</td>
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<td>3</td>
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<td>Novel coronavirus host susceptibility study in South Africa (COVIGen-SA)</td>
<td>Michele Ramsay (S. Africa)</td>
<td>Wits Health Consortium</td>
<td>NIH &amp; WT</td>
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<td>Davos Alzheimer’s Collaborative (DAC) - Pilot PRS</td>
<td>Hakon Hákonarson (USA)</td>
<td>Children’s Hospital of Philadelphia (CHOP)</td>
<td>DAC</td>
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<td>4</td>
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New Steering Committee Members

Nicky Mulder, Ph.D.
Principal investigator of H3ABioNet (H3Africa), S. Africa

Catterina Ferreccio
M.D., M.P.H.
Director of the MAUCO Cohort, Chile

Kobus Herbst, M.Sc.
Director of the SAPRIN Cohort, S. Africa
New Steering Committee Members

Michele Ramsay, Ph.D.  
Project Leader of the AWI-Gen Consortium Study (H3Africa), S. Africa

Reza Malekzadeh, M.D.  
Director of the Persian Cohort and the Golestan Cohort, Iran

Rahman Jamal, M.D., Ph.D.  
Project Leader of the Malaysian Cohort, Malaysia
New Steering Committee Members

Nicki Tiffin, Ph.D., M.P.H.  
**Co-Lead: Policy and Systems Working Group**  
Associate Professor at Centre for Infectious Disease Research in Africa (CIDRI), University of Cape Town, S. Africa

Paballo Chauke, M.Sc.  
**Co-Lead: Training and Workforce Working Group**  
Bioinformatics Training and Outreach Coordinator for H3ABIONET, S. Africa

Albert Tenesa, Ph.D.  
**Co-Lead: Training and Workforce Working Group**  
Co-Principal Investigator of the Coronagene cohort, UK
Our Amazing Secretariat

Scott
Ludy
Farah
Meredith
John
Carles

Chris
Ida
Ytina
Brittany
Chip
Teji
IHCC Funding Organizations

NIH
National Institutes of Health
Turning Discovery Into Health

Wellcome

Chan Zuckerberg Initiative

Davos Alzheimer’s Collaborative