

28th ANNUAL SCIENTIFIC MEETING

12th of September 2025

Maynooth University

MORNING SESSION

09:00 Registration, Tea & Coffee, Poster Viewing and Sponsor Visits

09:50 Welcome from ISHG chairperson
Dr Deirdre Donnelly

10:00 **Keynote I Gene-environment interactions and vitamin D**
Prof Lina Zgaga, Trinity College Dublin

10:45 **Oral presentations (Basic) Plenary I** (Each presentation 8 minutes + 2 minutes Q&A)
Chairs: Dr Lorna Lopez & Dr Edmund Gilbert

OP01 **Governing for a Sustainable Genomic Database: The Genome of Ireland Case Study**
Dr. Ciara Staunton^{1,2}, Dr. Laura Whelan³, Dr. Ifeolutembi Fashina³, Prof. Aedin Culhane⁴, Mr. Jack Glynn³, Prof. Markus Helfert⁵, Dr. Edmund Gilbert³, Dr. Naveed Khan⁵, Dr. Eva Szegezdi⁶, Ms. Nuala Ryan⁷, Ms. Laura Kavannah⁸, Dr. Russell McLaughlin⁹, Prof. Gianpiero Cavalleri^{3,1}Ciara Staunton Consulting, Galway, Ireland. ²University of Modena, Modena, Italy. ³Royal College of Surgeons in Ireland, Dublin, Ireland ⁴University of Limerick, Limerick, Ireland. ⁵Maynooth University, Maynooth, Ireland. ⁶University of Galway, Galway, Ireland. ⁷NCBRS Worldwide Foundation, Dublin, Ireland. ⁸IPPOSI, Dublin, Ireland. ⁹Trinity College, Dublin, Ireland

OP02 **Genome-wide Association Studies of Social Participation and Occupational Engagement in the UK Biobank**
Ms. Evie Doherty^{1,2}, Dr. Aodán Laighneach^{1,2}, Ms. Mia Casburn^{1,3}, Dr. Fergus Quilligan^{1,3}, Prof. Gary Donohoe^{1,4}, Prof. Dara M Cannon^{1,3}, Prof. Derek W Morris^{1,2,1}Centre for Neuroimaging, Cognition and Genomics (NICOG), University of Galway, Galway, Ireland. ²School of Biological and Chemical Sciences, University of Galway, Galway, Ireland. ³Clinical Neuroimaging Laboratory, School of Medicine, University of Galway, Galway, Ireland. ⁴School of Psychology, University of Galway, Galway, Ireland

OP03 **Erythematous UV at place of residence associated with melanoma, squamous cell carcinoma, and basal cell carcinoma skin cancers in a gene-UV interaction study**
Dr. Rasha Shraim, Prof. Ross McManus, Prof. Lina Zgaga, Trinity College Dublin, Dublin, Ireland

11:15 Tea & Coffee, Poster Viewing and Sponsor Visits – clinical poster authors to stand by posters

11:45 **Keynote II: Reflections on the distinct genetic disease epidemiology of Northern Scottish populations: How should we seek to maximise health?**
Prof Zosia Miedzybrodzka, Aberdeen University

12:30 **Oral presentations (Basic) Plenary II** (Each presentation 8 minutes + 2 minutes Q&A)
Chairs: Dr Therese Murphy & Dr Bronagh O'Hici

OP04 **Demography of Bronze and Iron Age Ireland through the lens of Ancient DNA**
Ms. Catherine Butt, Dr. Valeria Mattiangeli, Dr. Lara Cassidy, Smurfit Institute of Genetics, Trinity College Dublin, Dublin, Ireland

OP05 **From Siloed Cancer Data to Pan-European Discovery: Building Ireland Foundations for the European Health Data Space**

Prof Aedin Culhane, University of Limerick, Limerick Digital Cancer Research Centre, Limerick, Ireland. CANDLE National Cancer Data Node, Limerick, Ireland

OP06 Investigating Genetic Links Between Sleep Disturbance and Neuropsychiatric Traits in Children: Insights from the Adolescent Brain Cognitive Development Study

Ms. Enya Nordon¹, Dr. Laura Fahey², Dr. Cathy Wyse¹, Prof. Lorna Lopez¹ ¹Kathleen Lonsdale Institute for Human Health Research, Department of Biology, Maynooth University, Maynooth, Ireland. ²National Viral Reference Laboratory, UCD, Dublin, Ireland

13:00 Lunch, Poster Viewing and Sponsor Visits

14:15 ISHG Annual General Meeting & Chairperson Report

AFTERNOON SESSION

14:30 Keynote III: Mitochondrial Disease: Principles, Presentations and Prevention

Prof Bobby McFarland, Newcastle University

15:15 Oral presentations (Clinical) Plenary III (Each presentation 8 minutes + 2 minutes Q&A)

Chairs: Dr Lisa Bradley & Dr Deirdre Donnelly

OP07 Incidental and Secondary findings of Cancer Predisposition Genes in Children Attending the Department of Clinical Genetics, CHI, Crumlin in the Republic of Ireland

Dr. John Coleman¹, Ms. Sinead Whyte¹, Ms. Rebecca Redmond¹, Ms. Emma O' Donoghue¹, Mr. Eoin Hanney¹, Ms. Claire Giffney¹, Prof. Andrew Green¹, Dr. Noelle Cullinan², Dr. Lisa Bradley¹ ¹Department of Clinical Genetics, Children's Health Ireland, Crumlin, Dublin, Ireland. ²Department of Paediatric Oncology, National Children's Cancer Service, CHI, Crumlin, Dublin, Ireland

OP08 A 10-year Audit in the Trends of Microarray Findings of the Regional Northern Ireland Clinical Genetics Service

Mr. Jack Courtney¹, Ms. Lucy O'Kane¹, Dr. Deirdre Donnelly² ¹Ulster University, United Kingdom, ²Northern Ireland Clinical Genetics Service, Belfast, United Kingdom.

OP09 Launching a Carrier Testing Study for Galactosaemia amongst the Irish Traveller Population

Ms. Aishling Whelan¹, Ms. Cathy Darcy², Prof. Michael Boyle², Dr. Catherine Clabby¹, Dr. Karen Flood², Ms. Fiona Hanrahan², Ms. Lynsey Kavanagh³, Ms. Deborah Lambert², Dr. Jennifer McDaid¹, Dr. Trudi McDevitt¹, Ms. Valerie O'Leary³, Prof. Sally Ann Lynch¹ ¹Department of Clinical Genetics, Children's Health Ireland, Dublin, Ireland. ²Rotunda Hospital, Dublin, Ireland. ³Pavee Point- Traveller and Roma Centre, Dublin, Ireland

15:45 Tea & Coffee, Poster Viewing and Sponsor Visits – basic poster authors to stand by posters

16:15 Keynote address IV: Forensic Science in Ireland

Dr Charlotte Murphy, Forensic Science Ireland

17:00 Oral presentations (Clinical) Plenary IV (Each presentation 8 minutes + 2 minutes Q&A)

Chairs: Dr Lisa Bradley & Dr Deirdre Donnelly

OP10 Expanding Somatic Variant Testing for Patients with Cancer in Ireland to align with EMA-approved Medications

Dr. Gráinne O'Mahoney¹, Mr. Brendan Reardon^{1,2}, Mr. Ciarán Haugh³, Prof. Aedín Culhane¹ ¹eHealth-Hub for Cancer, Limerick Digital Cancer Research Centre, School of Medicine, University of Limerick, Limerick, Ireland. ²Cancer Program, Broad Institute of MIT and Harvard, Cambridge, Massachusetts, USA. ³National Cancer Registry Ireland, Cork, Ireland

PO11 Exploring Canadian Genetic Counsellors' Perspectives and Experiences with Discussing Medical Assistance in Dying (MAiD)

Ms. Rebecca Candlish^{1,2}, Ms. Susan Creighton², Dr. Daryl Pullman³, Dr. Alison M. Elliott^{2,4,5} ¹Children's Health Ireland, Dublin, Ireland. ²University of British Columbia, Vancouver, Canada. ³Memorial University of Newfoundland, St. John's, Canada. ⁴BC Children's Hospital Research Institute, Vancouver, Canada. ⁵Women's Health Research Institute, Vancouver, Canada

17:20 Honorary Membership Presentation

Prof Andrew Green

17:45 Presentation of Prizes followed by Wine & cake reception

19:00 Meeting Closes