# Invited Sessions 2014-2017

Invited Sessions 2017:

- Analysis of Cancer Genome Variation Using Long-read Sequencing
- Clinical Spotlight: VUS-busters: Cutting-edge Strategies for Interpreting Variants in Clinical and Research Sequencing
- Data Sharing, Analysis, and Tools to Catalyze Translation from Genomic to Clinical Knowledge
- Diversity Matters: Scientific and Ethical Strategies for Achieving Representation in Genomics
- Emerging Challenges in Complex Traits: One Locus, but Multiple Variants, Genes, and Tissues
- FACEing the Challenge: Advances in Our Understanding of Facial Development and Disease
- Novel Insights into Human Brain Evolution from Advanced Genomics
- Rigor and Reproducibility in Genetic Research
- Solving the Unsolved: Systems to Facilitate the Discovery of Novel Rare Disease Genes from Genomic Sequencing
- ASHG/ESHG Building Bridges: Zika: From Virus to Host Response to Vector Control
- Biology at Single Cell Resolution: Understanding Cell-type-specific Responses in Development and Disease
- Clinical Spotlight: Translational Genomics: Psychological and Health Behavior Research Outcomes
- Dosage-sensitive Sex-linked Genes: Role in Aneuploidy and Cancer
- High-throughput Sequencing of Adaptive Immune Receptors: Insights into Disease Mechanisms and Treatment
- Illuminating Somatic Mutations in Neurological Development and Disease
- Layers of Complexity: Dissecting the Etiology of Mendelian Diseases Characterized by Extreme Heterogeneity
- Metabolomic Perspectives in a Genomic Era: Garrod's Inborn Errors and Warburg's Theory of Cancer
- Using Controls from External Studies: Issues, Methods, and Successes

Invited Sessions 2016:

- Augmenting and Interpreting Genomic Data Using Tissue- and Cell-type-specific Networks
- Celebrating the Centenary of R.A. Fisher's "The Correlation Between Relatives on the Supposition of Mendelian Inheritance"
- CRISPR: A New Paradigm for Forward Human Genetics
- Diagnostic Functional Genetics, the Essential Next Step in NGS Translation to the Bedside
- Education in Action: Meeting the Challenges of 21st Century Genetics
- From GWAS and Mendelian Genes to Therapeutic Drug Targets
- Clinical Spotlight: Models and Approaches for Population-based Screening of Cancer Susceptibility Genes
- The Role of DNA Repair in Genomic Variation, Instability, and Human Disease
- Unusual Suspects: A Legal Line-Up Beyond GINA
- ASHG/ESHG Building Bridges Session: Navigating the Myriad Career Paths in Human Genetics
- Applying Multi-omics to Complications of Solid-organ Transplantation
- Beyond DNA Fingerprinting: Novel Developments in Forensics
- Evaluating Effectiveness of Traditional and Novel Methods of Genetic/Genomic Counselling
- Clinical Spotlight: Gene Discovery, Genetic Counseling, and Clinical Care of Patients with Inherited Retinal Diseases
- Genome Editing: What Implications and Obligations Does this Emerging Technology Create?
- How Natural Selection Shapes the Modern Human Genome: Methods and Examples
- Innovative Approaches to Co-ordinated Genomics Education for all Healthcare Professionals in England
- Structural Genomics: Integrating Analysis of Chromosome Conformation in Disease and Diagnosis

Invited Sessions 2015:

- Building the Genetic and Genomic Atlas of Gynecologic Health
- Cancer Genetics in the Genomics Era
- Epilepsy Genetics: Exomes, Mechanisms, and Interventions
- Human Phenotypes for Researchers, Clinicians and Patients
- Looking Beyond the Genes: Non-coding Mutations and 21st Century Disease Genetics.
- Maternal Age and Recombination: Risks to Aneuploidy
- Mendelian Disorders of the Epigenetic Machinery: Genetic Disorders with Epigenetic Consequences.
- Policy Challenges Affecting Clinical Integration of Next-Generation Sequencing: Advancing Toward Resolution
- Secure, Efficient, and Scalable Computational Genetics via Summary Statistics
- When You Know You've Found the One: Fine-Mapping GWAS Hits to a Single Variant
- Gene Editing/Rewriting the Genome: Moving from Association to Biology and Therapeutics
- Genetic Control of the Microbiome
- Integrating Genomes and Transcriptomes to Understand Human Disease
- Life Beyond Additive Variance
- Multiplexed and Multimodal Experimental Dissection of Genetic Variants
- Optimizing Clinical and Molecular Characterisation and Management in Skeletal Dysplasias: An Exemplary Model for Rare Genetic Diseases.
- Research Partners, Not Subjects: Engaging Indigenous Peoples in Genetics
- The Landscape of de novo Point Mutations in the Human Genome: How Many, Where, When and Why?
- Translating Genomic Knowledge into Clinical Practice
- Understanding Disease Pathogenesis: A Grand Challenge for Model Organisms

Invited Sessions 2014:

- Beyond Canonical CNVs: Interpreting Other Forms of Genomic Structural Variation
- Beyond Mendel: Complexities of Simple Mendelian Disorders
- Crowdsourced Genetics
- Curiouser and Curiouser! Navigating Career Transitions and Challenges in Genetics
- Targeted Drug Therapies for Progressive Genetic Disorders
- The X-Factor of Complex Disease: From Evolution to Association Studies of the X Chromosome
- Using Zebrafish to Model Human Genetic Disease Variation
- Whole Genome/Exome Sequencing: Patient Expectations, Literacy, and Preferences for Genomic Information
- Circulating Cell-Free Nucleic Acids as Clinical Biomarkers
- Genomic Medicine Case Conference: Illustrative Clinical Examples
- Genomic Variation: Interpreting the Uninterpreted
- Genetics of Sleep and Circadian Disorders
- Heritability and Risk Prediction for Complex Traits: Regulatory Variants and Polygenic Models
- Stakeholder Engagement in Genomics Policy Development: What Is It? Why Do It? How?
- Variation, Mutation, and Selection through the Lens of Regulatory Genomics
- Viruses, Genomic Instability, and the Pathogenesis of Human Cancers