



28TH ANNUAL MEETING

SOCIEDADE PORTUGUESA
DE GENÉTICA HUMANA

5 - 7
DECEMBER
2024

INSTITUTO SUPERIOR DE ENGENHARIA

ISEP PORTO

Rua António Bernardino Almeida, 431
4200-529 Porto



SPGH
Sociedade Portuguesa
de Genética Humana

Programme

Thursday 5th December

09h00-14h00 › Registration

10h00-12h00 › PRE-MEETING CONCURRENT SESSIONS

› EDUCATIONAL SESSION 1: *Scientific Writing*

Helder Maiato – *i3S, Porto*

› CLUB 1: *Cytogenetics and Molecular Genetics – Case discussion*

Sofia Dória – *FMUP, Porto* | Natália Salgueiro – *Synlab, Porto*

› EDUCATIONAL SESSION 2: *Classification of variants – Rules and criteria*

Sónia Sousa | Sofia Quental – *Ipatimup Diagnósticos, Porto*

› CLUB 2: *Dysmorphology and Clinical Genetics*

Pedro Louro – *ULSSJ, Porto* | Ana Rita Soares – *ULSSA, Porto*

12h30-13h30 › CORPORATE MEETINGS (concurrent in 2 rooms)

› QUILABAN - "Unlocking genomic insights for rare and hereditary disease with Emedgene", Duarte Oliveira

› LIMBUS MEDICAL TECHNOLOGY - "Exome diagnostics and beyond: How to navigate the NGS universe with confidence using the varvis® software"

Chair: Bruno Pescara

Part 1: How standardized filtering strategies accelerate exome diagnostics, Ximena Escalera-Fanjul

Part 2: Cabinet of curiosities: Detecting and interpreting extraordinary variants, Ben Liesfeld

13h30-14h00 › Lunch break – Lunch offered to attendees of corporate meetings

14h00-14h15 › OPENING AND WELCOME

Carla Oliveira | President SPGH 2024 & Sebastião Rodrigues | Chair Scientific Committee

14h15-14h50 › KEYNOTE LECTURE 1

Chair: Peter Jordan | Sebastião Rodrigues

"Single cell human genetics: understanding human disease one cell at a time"

Malte Spielmann (Institute of Human Genetics, Lubeck, Germany)

14h50-15h50 › Invited Symposium I (IS-I): *Genetics of Neurological Disorders*

Chair: João Paulo Oliveira | Jorge Oliveira

14h50-15h20 › Invited talk ISI-1: "Genetics and emerging treatments for neurometabolic diseases"

Fanny Mochel (Sorbonne Université – Hôpital de la Pitié-Salpêtrière, Paris, France)



15h20-15h50 › Invited talk ISI-2: "Trinity of neuroscience, genetics, and bioinformatics"**Friederike Ehrhart** (Maastricht University, The Netherlands)**15h50-16h10 › CORPORATE SYMPOSIUM (CSI): AstraZeneca/MSD***"Genetic Testing and PARP Inhibitors in Portugal: assessing the present and charting the course forward"***Breast cancer** | **Cláudia Vieira** (IPO Porto)**Prostate cancer** | **Ana Faria** (ULS Loures Odivelas)**16h10-17h30 › Coffee-break | Poster viewing and Discussion | Session I****17h30-18h20 › SELECTED ORAL PRESENTATIONS I: Basic Research****Chair: Bibiana Ferreira | João Vinagre**

17h30-17h40	Ana Raquel Soares	tRNA MODIFICATIONS ARE POTENTIAL ALZHEIMER'S DISEASE BIOMARKERS AND THERAPEUTIC TARGETS THAT CAN BE REPROGRAMMED THROUGH tRNA MODIFYING ENZYME EXPRESSION MANIPULATION TO RECOVER CELLULAR FITNESS
17h40-17h50	Ana Catarina Nunes	GENOME-WIDE CRISPR SCREEN IDENTIFIES RAB14 AS A NEW TARGET FOR GASTRIC CANCER TREATMENT
17h50-18h00	Susana Valente	RUNS OF HOMOZYGOSITY: BIOINFORMATIC APPROACHES FOR DIAGNOSTIC PURPOSES AND POPULATION ANALYSIS USING A SAMPLE OF 12,167 EXOMES
18h00-18h10	Liliana Matos	A 5' SPLICE-SITE MUTATION CAUSING MUCOLIPIDOSIS TYPE III CAN BE EFFICIENTLY RESCUED BY U1 snRNA-BASED THERAPY
18h10-18h20	Maria João Pinho	THE IMPACT OF BALANCED CHROMOSOMAL REARRANGEMENTS IN PGT-SR

18h30 › SPGH GENERAL ASSEMBLY**Friday 6th December****09H00-10h00 › SELECTED ORAL PRESENTATIONS II: Clinical research****Chair: Célia Soares | Ana Luísa Carvalho**

09h00-09h10	Luís Nunes	CO-OCCURRING MUTATIONS IDENTIFY PROGNOSTIC SUBGROUPS OF MICROSATELLITE STABLE COLRECTAL CANCER
09h10-09h20	José Garcia-Pelaez	CLINICAL CRITERIA FOR CDH1 GERMLINE TESTING ACROSS DIFFERENT WORLD REGIONS: SHALL WE KEEP THEM GLOBAL?
09h20-09h30	Filipe Alves	CLINICAL EXOME CONCEPTUALIZATION: A BIOINFORMATICS FRAMEWORK FOR SEMI-AUTOMATED REVIEW OF GENE-PHENOTYPE ASSOCIATIONS
09h30-09h40	Domingos Roda	CLINICAL IMPACT OF DYNAMIC CHANGES IN CFDNA DURING CHEMO/RADIATION IN GLIOBLASTOMA PATIENTS
09h40-09h50	André M. Travessa	IS MILD BONE FRAGILITY GENETIC? - GENETIC FINDINGS IN A COHORT OF PATIENTS WITH EARLY-ONSET FRACTURES AND/OR OSTEOPOROSIS AND NO EXTRASKELETAL SIGNS OF OSTEOGENESIS IMPERFECTA

10h00-11h00 › BUILDING BRIDGES: Hereditary Cancer Network in Portugal**Chair: Carla Oliveira**

Guests: **Carla Pereira** (Department of Quality in Health, Ministry of Health of Portugal) | **Fátima Vaz** (ERN Genturis Reference Centre IPOL) | **Manuel Teixeira** (ERN Genturis Reference Centre IPOP) | **Luzia Garrido** (ERN Genturis Reference Centre ULSSJ)

11h00-12h00 › Coffee-break / Poster Viewing and Discussion, Session II**12h00-13h00 › INVITED SYMPOSIUM II (ISII): Update on preimplantation genetic testing and prenatal diagnosis in Portugal****Chair: Ana Grangeia | Rosário Pinto Leite****12h00-12h30 › INVITED TALK ISII-1: "Preimplantation genetic testing in Portugal"****Filipa Carvalho** (Faculty of Medicine, University of Porto, Porto, Portugal)

12h30-13h00 › INVITED TALK ISII-2: "Prenatal diagnosis in Portugal"**Inês Carvalho** (*Unidade Local de Saúde São José, Lisbon, Portugal*)**13h00-14h00 › Lunch break****14h00-15h00 › POSTER VIEWING AND DISCUSSION, Session III****15h00-16h00 › Invited Symposium III (ISIII): Cancer Genetics****Chair: Joana Xavier | Sofia Fernandes****15h00-15h30 › Invited talk ISIII-1: "Genetics of Li-Fraumeni"****Gaëlle Bougeard** (*Université de Rouen, France*)**15h30-16h00 › Invited talk ISIII-2: "The urothelial gene regulatory network: understanding biology to improve bladder cancer management"****Francisco X. Real** (*CNIO, Madrid, Spain*)**16h00-16h30 › Coffee-break****16h30-16h50 › SELECTED ORAL PRESENTATIONS III: Clinical Cohorts****Chair: Marisa Silva | Joana Salgado**

16h30-16h40	Luís Miguel Pires	CLINICAL UTILITY OF DNA METHYLATION EPISIGNATURES TESTING - A PORTUGUESE MULTICENTER COHORT STUDY
16h40-16h50	Rita Barbosa-Matos	PERSONALIZED REGION-SPECIFIC LIFETIME CANCER RISK ESTIMATES FOR AN ANCESTRAL CDH1 VARIANT

16h30-16h50 › ROUND TABLE: Bridging imaging and genetics**Chair: André Travessa | Marta Soares****João Soares Fernandes** (*Hospital de Braga, Braga, Portugal*)**José Almeida** (*Champalimaud Foundation, Lisbon, Portugal*)**17h45-18h45 › Invited Symposium IV (ISIV): Understanding and treating disease****Chair: Margarida Venâncio | Ilda Ribeiro****17h45-18h15 › Invited talk ISIV-1: "Genotype-phenotype correlations in Parkinson Disease"****Joana Damásio** (*Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal*)**18h15-18h45 › Invited talk ISIV-2: "Ataxia with giant axonopathy in Acbd5-deficient mice halted by adeno-associated virus gene therapy"****Pedro Brites** (*I3S, Universidade do Porto, Portugal*)**20h00 GALA DINNER****Saturday 7th December****08H40-09h30 › SELECTED ORAL PRESENTATIONS IV: Clinical cases****Chair: Ana Raquel Silva | Susana Fernandes**

08h40-08h47	Sara Pinho	EXPANDING THE PHENOTYPE ASSOCIATED WITH IRF2BPL GENE VARIANTS: A REPORT OF 4 NEW CASES
08h47-08h54	Catarina Macedo	PRENATAL AND POSTNATAL PHENOTYPING AND MOLECULAR CHARACTERIZATION OF THREE CASES OF ZTTK SYNDROME: A POTENTIALLY RECOGNIZABLE CLINICAL ENTITY
08h54-09h01	Ana Miguel Capela	CTCF-RELATED INTELLECTUAL DISABILITY – FOUR PATIENTS SUGGESTING A RECOGNIZABLE FACIAL GESTALT
09h01-09h08	Isabel Serra Nunes	FRAXE INTELLECTUAL DEVELOPMENT DISORDER – WARNING FOR A FORGOTTEN DIAGNOSIS
09h08-09h15	Nuno Teixeira	A NEVER-ENDING RACE: A MULTILOCUS CAUSE OF AN INBORN ERROR OF IMMUNITY ASSOCIATED WITH COMPLEX NEUROLOGICAL DISEASE
09h15-09h22	Lígia Lameiras	SKELETAL SIGNS OF OSTEOGENESIS IMPERFECTA
09h22-09H29	Sofia Fragoso	A CHALLENGING DETECTION OF A NOVEL SPLICING DELETION IN THE DMD GENE IN A PATIENT WITH DUCHENNE MUSCULAR DYSTROPHY
		SKELETAL SIGNS OF OSTEOGENESIS IMPERFECTA
		BEYOND THE AFFECTED: THE IMPORTANCE OF TESTING NON-AFFECTED INDEX INDIVIDUALS IN CANCER HIGH-RISK FAMILIES

09h30-10h30 › BIOETHICS DEBATE: “Lack of access to healthcare in rare diseases”

Chair: Lina Ramos | Joaquim Sá

“European point of view” Dorica Dan (EURORDIS/ePAG)

“A Portuguese approach” Mariana Neves (Serviço Genética Médica, ULSSM)

10h30-11h00 › CORPORATE SYMPOSIUM II (CSII) – QUILABAN | Illumina

“Non-invasive prenatal testing for fetal aneuploidies by Cell-Free DNA whole-genome sequencing”

Luís Miguel Pires and Oscar Bolanos

11h00-11h25 › Coffee-break

11h25-12h00 › KEYNOTE LECTURE 2

Chair: Sérgio Sousa | Celeste Bento

“Genoprotective interventions for healthspan extension”

Elsa Logarinho (i3S, Porto, Portugal)

12h00-12h10 › SPGH in 2025 | Sérgio Sousa, President SPGH 2025 | Janet Pereira, Cláudia Oliveira

12h10-12h35 › SPGH Award Lecture

Chair: Sebastião Rodrigues | President Elected (tba)

12h35-12h55 › SPGH Awards Ceremony

Chair: Sebastião Rodrigues | Paula Jorge

12h55-13h10 › Closing Session

Carla Oliveira | Ana Grangeia | Cláudia Oliveira