

**34th Annual Meeting of the German Society of Human Genetics
in Kassel, Germany from March 15–17, 2023
(Subject to change)**



Wednesday, March 15, 2023

12:00–01:00 PM	Blauer Saal Technical Workshop Life & Brain GmbH
12:00–01:00 PM	Kolonnadensaal 2+3 Technical Workshop Illumina
12:00–01:00 PM	Kolonnadensaal 4+5 Joint Symposia Industry Covaris Devyser AB EnGenome srl Integrated DNA Technologies GmbH
12:00–01:00 PM	Kolonnadensaal 1 Technical Workshop Bionano Genomics
12:00–01:00 PM	Kolonnadensaal 6 Technical Workshop MetaSystems GmbH
01:15–02:45 PM	Blauer Saal Symposium 1 Extrachromosomal Circular DNA (eccDNA)
	Chair: Michael Speicher, Graz (Österreich) Malte Spielmann, Lübeck
01:15–01:45 PM	eccDNA in normal tissue (or in the human germline) <i>Birgitte Regenberg, Copenhagen (Denmark)</i>
01:45–02:15 PM	Prenatal <i>Dennis Lo, Hongkong (China) - Remote</i>
02:15–02:45 PM	eccDNA in cancer cells <i>Elias Rodriguez-Fos, Berlin</i>
01:15–02:45 PM	Kolonnadensaal 2+3 Symposium 2 Genetics of Aging
	Chair: Sven Cichon, Basel (Schweiz) Alicja Pacholewska (Köln)
01:15–01:45 PM	Possible functional contribution of somatic mutations in the arterial wall to age-associated vascular disease <i>Maria Eriksson, Huddinge (Sweden)</i>
01:45–02:15 PM	Somatic mutations reveal individual histories of aging and development <i>Alexej Abyzov, Rochester, Minnesota (USA)</i>
02:15–02:45 PM	Somatic mutation and selection in ageing <i>Iñigo Martincorena, Cambridge (UK)</i>
01:15–02:45 PM	Kolonnadensaal 4+5 EDU1 Mutationen, die wir beinahe verpasst hätten
	Bernd Wollnik, Göttingen, Maria Kuzyakova, Göttingen, Martin Zenker, Magdeburg, Rami Abou Jamra, Leipzig, Matthias Begemann, Aachen Dagmar Wiczorek, Düsseldorf, Alexander Hoischen, Nijmegen(The Netherlands)



03:00–04:00 PM	Blauer Saal Selected Presentations
	Chair: Brunhilde Wirth, Köln Ingo Kurth, Aachen
03:00–03:15 PM	SEL-01: De novo variants in KDM2A cause a syndromic neurodevelopmental disorder <i>Konrad Platzer, Leipzig</i>
03:15–03:30 PM	SEL-02: LHX2 loss of function causes neurodevelopmental deficits in humans and flies <i>Anne Gregor, Bern (Schweiz)</i>
03:30–03:45 PM	SEL-03: BTRR complex deficiency is a driver for genomic instability in Bloom syndrome <i>Ipek Ilgin Goenenc, Göttingen</i>
03:45–04:00 PM	SEL-04: Biallelic loss-of-function variants in CYHR1 cause syndromic microcephaly <i>Maria Asif, Köln</i>
04:00–05:30 PM	Foyer/Industry Exhibition Get together
04:30–05:30 PM	Blauer Saal Sitzung der Jungen Humangenetik
05:30–06:00 PM	Blauer Saal Opening Session
	The future of rare disease therapies <i>Brunhilde Wirth, Köln</i>
06:00–07:00 PM	Blauer Saal Keynote Lecture
	Chair: Brunhilde Wirth, Köln
	How therapies and newborn screening changed SMA: A paradigm for other rare diseases <i>Laurent Servais, Oxford (UK)</i>

Thursday, March 16, 2023



Kassel 2023
34. gfh-Jahrestagung

08:45–09:30 AM	Blauer Saal Plenary Session 1 Genome Regulation
	Chair: Bernd Wollnik, Göttingen
	Genome transcription and regulation <i>Patrick Cramer, Göttingen</i>
10:00–11:30 AM	Blauer Saal EDU 2 TA-Fortbildung: Pitfalls in der NGS-Diagnostik
	Doreen William, Dresden
10:00–11:30 AM	Kolonnadensaal 2+3 Workshop 1 Clinical Genetics
	Chair: Alma Kuchler, Essen Elisabeth Mangold, Bonn
10:00–10:15 AM	W1-01: Homozygous loss-of-function variants in FILIP1 cause autosomal recessive arthrogryposis multiplex congenita with microcephaly <i>F. Schnabel, Göttingen</i>
10:15–10:30 AM	W1-02: Heterozygous variants in LAMA5 are associated with short stature by affecting the focal adhesion pathway <i>A. Schulz, Erlangen</i>
10:30–10:45 AM	W1-03: Elucidating the clinical and molecular spectrum of SMARCC2 associated NDD in a cohort of 65 affected individuals <i>G. Vasileiou, Erlangen</i>
10:45–11:00 AM	W1-04: Assessment of the Genetic Spectrum of Uncombable Hair Syndrome in a Cohort of 107 Individuals <i>N. Cesarato, Bonn</i>
11:00–11:15 AM	W1-05: Investigation of Optical Genome Mapping Capabilities and its Potential to be Implemented as a Routine Diagnostic Test <i>U. Koehler, München</i>
11:15–11:30 AM	W1-06: GestaltMatcher Database – a medical imaging database for rare Mendelian disorders <i>H. Lesmann Bonn</i>
10:00–11:30 AM	Kolonnadensaal 1 Workshop 2 Cancer Genetics & Basic Mechanisms of Disease
	Chair: Stefan Aretz, Bonn Goekhan Yigit, Köln
10:00–10:15 AM	W2-01: Chromosomal imbalances define a site-specific pattern in distant metastases of colorectal cancer <i>M. Golas, Augsburg</i>
10:15–10:30 AM	W2-02: APC-specific variant classification rules reduce the burden of variants of uncertain significance in ClinVar and locus-specific databases considerably <i>S. Aretz, Bonn</i>
10:30–10:45 AM	W2-03: Epigenetically regulated microRNA-449a inhibits triple negative breast cancer by inducing chromosomal instability <i>B. Vajen, Hannover</i>
10:45–11:00 AM	W2-04: Single-nucleus RNA sequencing in a fetal lamb model of hypoplastic left heart syndrome <i>M. Reuter, Toronto (Canada)</i>
11:00–11:15 AM	W2-05: Elucidating the genetic network in SHOX2-dependent atrial arrhythmias using human iPSC-derived cardiomyocytes <i>K. Räddecke, Heidelberg</i>



11:15–11:30 AM	W2-06: Impact of hypermannosylation on the structure and functionality of the ER and the Golgi complex in AAMR syndrome <i>P. Franzka, Jena</i>
10:00–11:30 AM	Kolonnadensaal 4 Workshop 3 Bioinformatics
	Chair: Michael Speicher, Graz (Österreich) Martin Kircher, Lübeck/Kiel
10:00–10:15 AM	W3-01: Systematic analysis and prediction of genes associated with monogenic disorders on human chromosome X <i>E. Leitão, Essen</i>
10:15–10:30 AM	W3-02: Deep learning-assisted selection of regulatory variants for high-throughput experimental testing <i>M. Schubach, Berlin</i>
10:30–10:45 AM	W3-03: Deep Learning for Pediatric Bone Age Assessment on Patients with Genetically-confirmed Bone Disorders <i>B. Javanmardi, Bonn</i>
10:45–11:00 AM	W3-04: GestaltMatcher supports delineation of novel syndromes to facilitate lumping and splitting decision-making by facial phenotype descriptors <i>H. Klinkhammer, Bonn</i>
11:00–11:15 AM	W3-05: Enhancing applicability of PEDIA by integrating it into the variant prioritization pipeline with open source GestaltMatcher, CADA and VarFish. <i>Meghna Ahuja Bhasin, Bonn</i>
11:15–11:30 AM	W3-06: Face2HPO: Automated HPO Labeling of Syndromic Faces <i>A. Hustinx, Bonn</i>
11:45 AM–12:45 PM	Blauer Saal Talk nach 12 RNA-Sequenzierung in der Diagnostik
	RNA-Sequenzierung in der Diagnostik <i>Tobias Haack, Tübingen</i>
	Improvements to the Detection of RNA Outliers Pipeline and its application to multi-tissue rare disease cohorts <i>Vicente Yépez, München</i>
11:45 AM–12:45 PM	Kolonnadensaal 2+3 Sitzung der Naturwissenschaftler
	Chair: Ulrich Zechner, Köln
	Aktivitäten des Netzwerks der Fachwissenschaftler in der Medizin <i>Heinz Gabriel, Nagold</i>
	Bericht der Kommission „Fachhumangenetiker (GfH) <i>Christine Neuhaus, Stadecken-Elsheim</i>
11:45 AM –12:45 PM	Kolonnadensaal 1 Technical Workshop Limbus Medical Technologies GmbH
11:45 AM –12:45 PM	Kolonnadensaal 4 Technical Workshop Agilent Technologies Sales & Service GmbH & Co. KG c/o GBT Deutschland GmbH
11:45 AM –12:45 PM	Kolonnadensaal 5 Technical Workshop AstraZeneca GmbH



11:45 AM –12:45 PM	Kolonnadensaal 6 Technical Workshop PacBio
11:45 AM –12:45 PM	Konferenzzimmer 1 GHGA-Workshop
01:00–02:00 PM	Blauer Saal Plenary Session 2 New Therapies for Rare Diseases
	Chair: Brunhilde Wirth, Köln Nataliya Di Donato, Dresden
01:00–01:30 PM	From Genetic Basis to Pathophysiology, Preclinical Modelling and Therapeutic Trials for Vascular Anomalies <i>Miikka Vikkula, Bruxelles (Belgien)</i>
01:30–02:00 PM	Antisense oligonucleotide silencing of FUS expression as a therapeutic approach in amyotrophic lateral sclerosis <i>Neil Shneider, New York (USA)</i>
02:15–03:45 PM	Foyer Posterwalk 1
04:00–05:30 PM	Blauer Saal Pro & Contra I Präkonzeptionelles Carrierscreening
	Chair: Johannes Zschocke, Innsbruck (Österreich) Sabine Rudnik, Innsbruck (Österreich)
04:00–04:03 PM	Begrüßung & Einleitung <i>Johannes Zschocke, Innsbruck (Österreich)</i>
04:03–04:13 PM	Entwicklung und aktueller Stand <i>Sabine Rudnik, Innsbruck (Österreich)</i>
04:13–04:23 PM	Ziele des PCS in der Reproduktionsmedizin <i>Thomas Strowitzki, Heidelberg</i>
04:23–04:33 PM	Welche Methoden stehen zu welchen Kosten zur Verfügung? <i>Angela Abicht, München</i>
04:33–04:43 PM	Welche gesellschaftlich-sozialen Aspekte sind zu berücksichtigen? <i>Ingrid Metzler, Krems an der Donau (Österreich)</i>
04:43–04:53 PM	Lässt sich das PCS ethisch akzeptabel umsetzen? <i>Anette Grüters-Kieslich, Berlin</i>
04:53–04:58 PM	Zusammenfassung <i>Johannes Zschocke, Innsbruck (Österreich)</i>
04:58–05:00 PM	Diskussion
04:00–05:30 PM	Kolonnadensaal 2+3 EDU 3 Bioinformatik Peter Krawitz, Bonn
04:00–05:30 PM	Kolonnadensaal 1 Workshop 4 Monogenic Disease
	Chair: Ruthild Weber, Hannover Rami Abou Jamra, Leipzig
04:00–04:15 PM	W4-01: A novel intronic GAA repeat expansion in FGF14 causes autosomal dominant adult-onset ataxia <i>K. Lohmann, Lübeck</i>
04:15–04:30 PM	W4-02: Pathogenic variants in the gene SPTLC1 cause hyperkeratosis lenticularis perstans

	<i>S. Alter, Freiburg</i>
04:30–04:45 PM	W4-03: TSHZ3 is mutated in human CAKUT <i>E. Kesdiren, Hannover</i>
04:45–05:00 PM	W4-04: TMCO3, a putative K ⁺ :proton antiporter at the Golgi apparatus, is important for longitudinal growth in mice and humans <i>T. Holling, Hamburg</i>
05:00–05:15 PM	W4-05: de novo MAP3K3 variants in patients with abnormalities of the lymphatic system cause attenuation of MAP3K3/MEKK3 downstream signaling pathways <i>I.G. Kreimer, Hamburg</i>
05:15–05:30 PM	W4-06: Premature cognitive decline in a mouse model of tuberous sclerosis <i>V. Engelhardt, Mainz</i>
04:00–05:30 PM	Kolonnadensaal 4 Workshop 5 Complex Diseases
	Chair: Stefanie Heilmann-Heimbach, Bonn Ulrike Hüffmeier, Erlangen
04:00–04:15 PM	W5-01: Mono- and biallelic variant effects on disease at biobank scale <i>H. Heyne, Potsdam</i>
04:15–04:30 PM	W5-02: Potential clinical utility of polygenic risk scores in disease prognosis <i>J. Wanner, Potsdam</i>
04:30–04:45 PM	W5-03: Saturation mutagenesis data facilitate interpretation of noncoding variants in the IRF6 enhancer associated with orofacial clefting <i>R. Hollstein, Bonn</i>
04:45–05:00 PM	W5-04: entfällt
05:00–05:15 PM	W5-05: Genetic associations underlying susceptibility to SARS-CoV-2 and severity of COVID-19: Results of the global COVID-19 Host Genetics Initiative <i>K. Ludwig, Bonn</i>
05:15–05:30 PM	W5-06: Novel pharmacological approaches for non-alcoholic steatohepatitis based on a single patient with a de novo variant in FASN <i>M Musfeldt, Hamburg- Eppendorf</i>
04:00–05:30 PM	Kolonnadensaal 5 Workshop 6 Disease Models and Therapy
	Chair: Anne Gregor, Bern (Schweiz) Hans Zempel, Köln
04:00–04:15 PM	W6-01: Morphological alterations of microglia in the Magel2 KO mouse model of Prader-Willi and Schaaf-Yang syndromes <i>F. Althammer, Heidelberg</i>
04:15–04:30 PM	W6-02: DEGS1-associated leukodystrophy: using patient-derived iPSCs to unravel neuro- and gliopathology <i>N. Haag, Aachen</i>
04:30–04:45 PM	W6-03: Human models for White Sutton syndrome: POGZ mutations change the transcriptome and induce defects in neural progenitor cell biology <i>A. Soliman, Mainz</i>
04:45–05:00 PM	W6-04: Survival of Glioblastoma patients vaccinated with personalized peptides: a retrospective analysis <i>S. Biskup, Tübingen</i>
05:15–05:30 PM	W6-05: 1 Mutation 1 Medicine: a European platform for ASO development and treatments for individuals with nano-rare neurological diseases <i>H. Graessner, Tübingen</i>



Kassel 2023
34. gfh-Jahrestagung

05:00–05:15 PM	W6-06: Patient and variant stratification for individualized genetic therapies for ultra-rare diseases <i>M. Lauffer, Leiden (Niederlande)</i>
06:00–07:30 PM	Blauer Saal General Meeting GfH
From 20:00	Geselliger Abend Kongress Palais Kassel

Friday, March 17, 2023



08:45–09:30 AM	Blauer Saal Plenary Session 3 Cancer Genomes
	Chair: Johanna Tecklenburg, Hannover Michael Speicher, Graz (Schweiz)
	Somatic mutations in cancer: Tracking mutational footprints to study the origin of cancer <i>Ruben van Boxtel, Utrecht (Niederlande)</i>
10:00–11:00 AM	Blauer Saal Symposium 3 New Developments in Old Syndromes
	Chair: Sabine Hoffjan, Bochum Miriam Elbracht, Aachen
10:00–10:30 AM	New insights and ASO treatment developments for Angelman Syndrome <i>Ype Elgersma, Rotterdam (Niederlande)</i>
10:30–11:00 AM	New players explaining cognitive impairments in Down syndrome <i>Mara Dierssen, Barcelona (Spanien)</i>
10:00–11:00 AM	Kolonnadensaal 2+3 Symposium 4 Completing Human Genomes
	Chair: Ingo Kurth, Aachen Alex Hoischen, Nijmegen (Niederlande)
10:00–10:30 AM	The Human Pangenome Project: Creating a Reference that Better Represents Human Global Genetic Diversity <i>Karen Miga, San Diego (USA)</i>
10:30–11:00 AM	The advantages of complete, telomere-to-telomere genomes <i>Adam Philippy, Bethesda (USA)</i>
11:00 AM –12:30 PM	Foyer Posterwalk 2
12:45–01:45 PM	Blauer Saal Technical Workshop MGI International Sales Co., Limited.
12:45–01:45 PM	Kolonnadensaal 2+3 DFG-Fördermöglichkeiten
	Lisa Nalbach (DFG), Bonn Christian Kubisch, Hamburg
12:45–01:45 PM	Kolonnadensaal 1 Technical Workshop Singleron Biotechnologies
12:45–01:45 PM	Kolonnadensaal 4 Technical Workshop Twist Bioscience
12:45–01:45 PM	Kolonnadensaal 5 Technical Workshop QIAGEN GmbH
12:45–01:45 PM	Kolonnadensaal 6 Technical Workshop Oxford Nanopore Technologies
02:00–03:30 PM	Blauer Saal Pro & Contra II Teilen von genetischen Daten
	Peter Krawitz, Bonn



02:00–03:30 PM	Kolonnadensaal 2+3 EDU 4 ACMG-AMP Klassifizierungsrichtlinien
	Andreas Laner, München
02:00–03:30 PM	Kolonnadensaal 1 Workshop 7 Neurodevelopmental Disorders
	Chair: Mert Karakaya, Köln Silke Redler, Düsseldorf
02:00–02:15 PM	W7-01: De novo variants in CNOT9 cause a neurodevelopmental disorder with or without epilepsy <i>R. Abou Jamra, Leipzig</i>
02:15–02:30 PM	W7-02: DOCK4 loss-of-function variants lead to neurodevelopmental delay <i>V. Bothe, Leipzig</i>
02:30–02:45 PM	W7-03: De novo variants in DLGAP1 cause a variable neurodevelopmental disorder <i>H. Lyubenova, Berlin</i>
02:45–03:00 PM	W7-04: de novo PHF5A variants cause craniofacial abnormalities and developmental delay <i>F.L. Harms, Hamburg</i>
03:00–03:15 PM	W7-05: CUX1-related neurodevelopmental disorder: Deep insights into phenotype-genotype spectrum and underlying pathology <i>H. Oppermann, Leipzig</i>
03:15–03:30 PM	W7-06: Mutant SSU processome component C1orf131 causes ribosome biogenesis dysfunction leading to primary microcephaly <i>M.S. Hussain, Köln</i>
02:00–03:30 PM	Kolonnadensaal 4 Workshop 8 Technologies and Clinical Application
	Chair: Per Hofmann, Konstanz Larissa Arning, Bochum
02:00–02:15 PM	W8-01: Intra-operative prediction of brain tumor classes from Nanopore data <i>H. Kretzmer, Berlin</i>
02:15–02:30 PM	W8-02: Parallel In-Depth Analysis of Repeat Expansions in Ataxia Patients by Long-Read Sequencing <i>H. Erdmann, München</i>
02:30–02:45 PM	W8-03: Combined somatic copy number alteration and fragmentation analysis for treatment monitoring in colorectal cancer patients using liquid biopsy <i>A. Hallermayr, München</i>
02:45–03:00 PM	W8-04: Meta-Analysis of Multiomics-Neurodegeneration data <i>S. Klingenberg, Mainz</i>
03:00–03:15 PM	W8-05: Prenatal Trio-Exome-Analysis: A powerful routine diagnostic tool <i>U. Ahting, Martinsried</i>
03:15–03:30 PM	W8-06: 2000 trio exome sequencing on research base: output and outlook <i>A. Golod, Leipzig</i>
02:00–03:30 PM	Kolonnadensaal 5 Workshop 9 Functional Genomics
	Chair: Andreas Forstner, Bonn Anja Weise, Jena
02:00–02:15 PM	W9-01: Disruption of the topologically associated domain at Xp21.2 is related to 46,XY gonadal dysgenesis <i>V. Yumiceba, Lübeck</i>

02:15–02:30 PM	W9-02: Enhancer hijacking at the ARHGAP36 locus is associated with connective tissue to bone transformation <i>U. Melo, Berlin</i>
02:30–02:45 PM	W9-03: Frameshifts of intrinsically disordered regions alter nucleolar phase separation and cause genetic disease <i>M.A. Mensah, Berlin</i>
02:45–03:00 PM	W9-04: Effects of TXNIP-variants to systemic and cellular lipid and glucose handling <i>J.-J. Scholz, Hamburg</i>
03:00–03:15 PM	W9-05: SEC24C deficiency causes trafficking and glycosylation abnormalities and leads to a congenital syndrome including anemia, microcephaly, and cataracts <i>N. Bögershausen, Göttingen</i>
03:15–03:30 PM	W9-06: Clinical and molecular characterization of MAU2 variants uncover an essential role of MAU2 in transcriptional regulation <i>I. Parenti, Essen</i>
03:45–04:00 PM	Blauer Saal Closing remarks