Thursday, December 1st, 2022

09:15 – 10:30	**Session 1 – *HSP around the world (chair: Schüle)***
09:15	Landscapes of HSP in Japan and Japan Spastic Paraplegia Research Consortium (JASPAC) (Hiroyuki Ishiura, Okayama, Japan) (25+5 min)
09:45	Landsapes of HSP in Africa (Jeannine M. Heckmann, Cape Town, South Africa) (25+5 min)
10:15	Landscapes of HSP in South America (Jonas Alexander Morales Saute, Porto Alegre, Brazil) (20+5 min)
10:45 – 11:00	**Coffee Break *(15 min)***
11:00 – 12:30	**Session 2 – *Diagnosing and studying the natural history of HSP* (chair: Schüle)**
11:00	Developement of Centers of Excellence to support a North American Registry and Natural History Study for HSP (Caig Blackstone, Darius Ebrahimi-Fakhari, Rebecca Schüle, Stephan Züchner) (25+5 min)
11:30	The clinical and molecular spectrum of ZFYVE26-associated HSP (SPG15) (Darius Ebrahimi-Fakhari, Boston, USA) (25+5 min)
12:00	Improving the diagnostic odyssey in Hereditary Spastic Paraplegia (Giovanni Stevanin, Bordeaux, France) (25+5 min)
12:30 – 14:15	**Lunch Break and Posters**
14:15 – 15:45	**Session 3 – New HSP genes (chair: Depienne)**
14:15	Dominant KPNA3 Mutations Cause Infantile-Onset Hereditary Spastic Paraplegia (Stefan Kindler, Hamburg, Germany) (25+5 min)
14:45	SPTAN1 mutations in spastic ataxia: new phenotypes expanding the neuro-spectrinopathies (Jonathan Baets, Antwerp, Belgium) (25+5 min)
15:15	Biallelic Variants in the Ectonucleotidase ENTPD1 Cause a Complex Neurodevelopmental Disorder with Intellectual Disability, Distinct White Matter Abnormalities, and Spastic Paraplegia (Daniel Calame, Houston, USA) (25+5 min)
15:45– 16:00	**Coffee Break *(15 min)***
16:00 – 17:30	**Session 4 – *New HSP genes, clinical overlap with other syndromes, genetic modifiers* (chair: Depienne)**
16:00	Closing the diagnostic gap: new genes in HSP and related disorders (Stephan Züchner, Miami, USA) (25+5 min)
16:30	Genetic modifiers of SPG4-HSP (Livia Parodi, Paris, France and Harvard, USA) (25+5 min)
17:00	Recognizing and exploiting the overlap between hereditary spastic paraplegia and ataxias (Bart van de Warrenburg, Nijmegen, Netherlands) (25+5 min)
19:00	**Get Together and Dinner** Restaurant Liquid Kelter, Schmiedtorstraße 17, 72070 Tübingen | https://www.liquid-kelter.de Google Maps Location: https://www.liquid-kelter.de

Friday, December 2nd, 2022

08:45 – 10:30	**Session 5 – *Deciphering mechanisms causing HSPs using cellular and animal models (chair: Klebe)***
08:45	(iPSC-based) advanced cell culture models to decipher disease mechanisms in HSP (Stefan Hauser, Tübingen, Germany) (25+5 min)
09:15	New mechanisms for motor neuron disease derived from human stem cell based models (Beate Winner, Erlangen, Germany) (25+5 min)
09:45	Mouse models for hereditary spastic paraplegia uncover a role of PI4K2A in autophagic lysosome reformation (Christian Hübner, Jena, Germany) (25+5 min)
10:15	Kinesins and microtubule interactions (Anne Straube, Warwick, UK) (25+5 min)
10:45 – 11:10	**Coffee Break *(15 min)***
11:10 – 12:40	**Session 6 – *Monitoring HSP progression in clinical studies* (chair: Klebe)**
11:10	5D gait analysis – perspectives for innovative digital precision medicine in HSP (Heiko Gaßner, Erlangen, Germany) (25+5 min)
11:40	Iron-sensitive MR imaging of the primary motor cortex in Hereditary Spastic Paraplegia (Graziella Donatelli, Pisa, Italy) (25+5 min)
12:10	Gait Changes in Prodromal Hereditary Spastic Paraplegia Type 4 (Ludger Schöls, Tübingen, Germany) (15+5 min)
12:30 – 13:30	**Lunch Break and Posters**
13:30 – 14:30	**Session 7 – Awards Ceremony**
13:30	Investigating the role of spastin's binding partner protrudin in endosomal sorting (Julia Kleniuk, Cambridge, UK) (15 min)
13:45	Using Label-free Proteomics for Target Identification and Validation of Novel Treatments for AP-4-associated Hereditary Spastic Paraplegia (Afshin Saffari, Boston, USA) (15 min)
14:00	Measures of mobility and functioning in hereditary spastic paraplegia (Martin Regensburger, Erlangen, Germany) (15 min)
14:15	Nomination of 3 poster prizes
14:30 – 16:00	**Session 8 – *Precision medicine approaches to treat HSP* (chair: Schöls)**
14:30	Understanding the biology and pathology of upper motor neurons: one neuron at a time (Hande Ozdinler, Chicago, USA) (25+5 min)
15:00	Testing Miglustat in SPG11: a single center experience (Filippo Santorelli, Pisa, Italy) (25+5 min)
15:30	Development of an Intrathecal AAV9/AP4M1 Gene Therapy for Hereditary Spastic Paraplagia 50 (Xin Chen, Dallas, USA) (25+5 min)
16:00	End of the event