Wednesday, June 12th

Time			
08.00-08.45	**Registration**		
	Lecture hall: Stora salen		
08.45-09.00	**Opening of the ICE 2024** *Pyotr Platonov & Frida Sandberg, Congress Co-chairs*		
09.00-09.30	**Actionability of genetics in hypertrophic cardiomyopathy: potential for conventional and novel gene therapies** *Bill McKenna, UK*		

Time	Lecture hall: Stora salen	Lecture hall: Sparbanksfoajén	Lecture hall: Gustafscenen
09.40-10.40	**Whole heart modeling** Co-chairs: Natalia Trayanova & Igor Efimov **Computational cardiac physiology for new modelers: origins, foundations and future** *Joakim Sundnes, Norway* **Modeling the heart at the micrometer scale** *Mark Potse, France* **Computational modeling and simulation of the ECG as an enabling technology for machine learning** *Axel Loewe, Germany* **Atrial Anatomy Enhanced by Mixed Reality and 3D Representation of ECG Generation** *Danila Potyagaylo, Poland*	**ECG in Acute Coronary Syndrome** Co-chairs: Peter Macfarlane & JuanPablo Martinez **Ventricular arrhythmias and acute coronary syndrome** *Marina Demidova, Sweden* **ECG prediction of ventricular fibrillation in experimental myocardial ischemia: from the heart to the body surface** *Jan Azarov, Russia* **ECG challenges in acute STEMI diagnosis** *Yochai Birnbaum, USA* **ECG signal analysis under ischaemia, and its relation with infarct size, arrhythmia risk and occluded artery** *Pablo Laguna, Spain*	**Cardiogenetics Part 1** Co-chairs: Julia Cadrin-Tourigny & Jørgen Kanters **Risk stratification in LQTS** *Wojciech Zareba, USA* **New ECG methodologies and new criteria for risk stratification in channelopathies** *Emanuela Locati, Italy* **Familial ST depression syndrom - New channelopathy?** *Alex Christensen, Denmark* **Post-mortem genetic testing** *Mark Haigney, USA*

Time		
10.40-11.10	**Coffee break in the exhibition area**	

Time	Lecture hall: Stora salen	Lecture hall: Gustafscenen
11.10-12.10	**AI in Electrocardiology Part 1** Co-chairs: Axel Loewe & Dave Albert **Artificial intelligence in electrocardiology - possibilities and challenges** *Martin Stridh, Sweden* **ECG-Based Unsupervised Clustering in Coronary Artery Disease associates with cardiovascular events*** *Josseline Madrid, Spain* **Attitudes of clinicians to a 'human-like' explainable AI based on pseudo-colouring of ECGs that exposes life-threatening anomalies*** *Lukas Hughes-Noehrer, UK* **Machine Learning extraction of fully interpretable criteria for ECG interpretation** *Manolis Kargiantoulakis, GE Healthcare*	**Electrocardiology in Cardiogenetic Diseases** Co-Chairs: Pia Dahlberg & Alex Christensen **Electrocardiographic phenotype as quantified by ECG Risk-score has higher predictive power than HCMRisk-Kids, PRIMACY and ESC HCM risk-calculators in childhood hypertrophic cardiomyopathy*** *Ingegerd Östman-Smith, Sweden* **Electrical Repolarization Pathway by CineECG Characteristics in LQTS*** *Ksenia Sedova, Czech Republic* **Longitudinal analysis of 10-second-long ECG-derived biomarkers from patients suffering Brugada Syndrome*** *Alba Isabel-Roquero, Spain* **Assessing Seroprevalence to Adeno-Associated Virus Serotype 9 (AAV9) in Preparation for RIDGE-1, a Phase 1b First-in-Human Study to Evaluate Safety and Efficacy of TN-401 Investigational Gene Therapy in Adults with PKP2-Associated ARVC*** *Hugh Calkins, USA*

Time		
12.10-13.30	**Lunch in the exhibition area**	

* - indicates original research abstracts

	Lecture hall: Stora salen
13.30-14.10	**Digital twins for personalized medicine in cardiovascular disease** *Natalia Trayanova, USA*
14.10-15.10	**Computing in Cardiology session** Co-chairs: Rob MacLeod & Maria Guillem **Imaging and ECG** *Rob MacLeod, USA* **Automatic ECG signal analysis for retrieving relevant, visible or hidden, information** *Pablo Laguna, Spain* **Modeling and simulation for understanding arrhythmia mechanisms and quantifying the accuracy of signal processing methods** *Maria Guillem Spain* **The PhysioNet Challenges: public data, code and foundational models for cardiology** *Gari Clifford, USA*
15.10-15.30	**Coffee break in the exhibition area**

	Lecture hall: Stora salen	Lecture hall: Sparbanksfoajén	Lecture hall: Gustafscenen
15.30-16.30	**AI in Electrocardiology Part 2** Co-chairs: Manolis Kargiantoulakis & Emma Svennberg **Deep Learning Model - Enabled Electrocardiogram to Localize Premature Ventricular Contractions in Patients Referred for Catheter Ablation*** *Abhishek Deshmukh, USA* **Artificial intelligence for evaluation of syncope patients** *Sam Johnston, USA* **AI-ECG in epidemiology** *Tom Ribeiro, Brazil* **How has AI changed computerized ECG interpretation** *David Albert, USA*	**ECG Imaging** Co-chairs: Maria Guillem & Varvara Kommata **Therapy delivery guidance in the EP lab with imageless ECGi** *Maria Guillem, Spain* **Localisation of the ventricular pacing site from BSPM and 12-lead ECG** *Peter van Dam, The Netherlands* **12-lead ECG-based noninvasive epi-endocardial mapping in heart failure patients with non-LBBB** *Mikhail Chmelevsky, Switzerland* **The Current State of ECGI: Recent Progress and Persistent Challenges** *Rob Macleod, USA*	**Congenital Heart Disease ECG** Co-chairs: Joanna Hlebowicz & Daniel Cortez **ECG in Adult Congenital Heart Disease** *Parvin Dorostkar, USA* **Age-related progression of ECG and VCG abnormalities in congenital heart disease** *Daniel Cortez, USA* **Vectorcardiography Predictors for Poor Fontan Outcomes: QRSvm and SPQRS-T angle as noninvasive markers of Fontan failure risk*** *Ashley Wong, USA* **Electrocardiogram proarrhythmic changes in pregnancy in women with congenital heart disease*** *Frida Wedlund, Sweden*
16.30-17.30	**Poster reception in the exhibition area** Click here to see all posters		

* - indicates original research abstracts

Thursday, June 13th			
	Lecture hall: Stora salen		
09.00-09.30	**Gene specific diagnosis and management of arrhythmogenic cardiomyopathy: where do we stand in 2024?** *Hugh Calkins, USA*		
	Lecture hall: Stora salen	Lecture hall: Sparbanksfoajén	Lecture hall: Gustafscenen
09.40-10.40	**Cardiogenetics Part 2** Co-chairs: Hugh Calkins & Emanuella Locati **Diagnostic criteria for hypertrophic cardiomyopathy revisited: importance of the electrocardiogram** *Bill McKenna, UK* **ECG phenotype in ARVC** *Anneli Svensson, Sweden* **ARVC: arrhythmic risk prediction to prevent sudden cardiac death** *Julia Cadrin-Tourigny, Canada* **Management of patients with LMNA-associated cardiomyopathy according to 2023 ESC guidelines on cardiomyopathies** *Kristina Haugaa, Norway*	**Syncope and Postural Orthostatic Tachycardia Syndrome** Co-chair: Takanori Ikeda & Mori Krantz **What's new in syncope diagnosis and management A.D. 2024?** *Artur Fedorowski, Sweden* **Arrhythmic syncope update** *Gary Tse, Honh Kong* **ECG analysis in patients with syncope** *Sam Johnston, USA* **POTS - diagnostic and therapeutic update** *Thomas Klingenheben, Germany*	**AF Screening** Co-chairs: Gari Clifford & Arnljot Tveit **Population-based AF screening in Sweden** *Emma Svennberg, Sweden* **Screening for atrial fibrillation using implantable loop recorders** *Jesper Svendsen, Denmark* **When should I call it atrial fibrillation?** *Jeff Healey, Canada* **Panel Discussion**
10.40-11.10	**Coffee break in the exhibition area**		
	Lecture hall: Stora salen		
11.10-12.10	**Young Investigator Competition** Co-chairs: Parvin Dorostkar / Tom Ribeiro **P-wave indices predict efficacy outcomes in long-term flecainide treated patients with atrial fibrillation*** *Alexander Siotis, Sweden* **High-Resolution In Silico Assessment of Atrioventricular Node Function during Atrial Fibrillation*** *Mattias Karlsson, Sweden* **P-wave and F-Wave Directionalities in Subjects Affected by Paroxysmal Atrial Fibrillation*** *Agnese Sbrollini, Italy* **Implantable device utilization in real-life patients with heart failure: experience from The HARVEST-Malmö Study*** *Zainu Nezami, Sweden*		
12.10-13.30	**Lunch in the exhibition area**		
13.30-14.00	**Rijlant lecture** **Risk stratification for sudden cardiac death** *Wojciech Zareba, USA*		
	Lecture hall: Stora salen		

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14.10-15.10	**ISE and ISHNE Session: Meet the Editor** Co-chairs: Adrian Baranchuk & Mark Haigney **How to get published: 10 tips for young researchers** *Manlio Marquez, Mexico* **How to review a paper** *Emanuela Locati, Italy* **Is the IF a relevant metric?** *Linda Johnson, Sweden* **Panel Discussion** *Gary Tse, Hong Kong* *Yochai Birnbaum, USA* *Peter Macfarlane, Scotland* *Vassilios Vassilikos, Greece*
15.10-15.30	**Coffee break in the exhibition area**

	Lecture hall: Stora salen	Lecture hall: Sparbanksfoajén	Lecture hall: Gustafscenen
15.30-16.30	**ECG Processing and Interpretation: Part 1** Co-chairs: Juan Pablo Martinez & Ewa Piotrowicz **T-wave inversion in precordial leads** *Yochai Birnbaum, USA* **P-wave morphology variants: prevalence and relevance** *Pyotr Platonov, Sweden* **The value of pre-participating screening** *Mark Haigney, USA* **ECG-based prediction of the outcome of device therapy** *Rasmus Borgquist, Sweden*	**Autonomic Nervous System and the Heart** Co-chairs: Ryszard Piotrowicz & Frieder Braunschweig **Role of autonomic testing in noncardiac systemic diseases with cardiovascular symptoms** *Thomas Klingenheben, Germany* **Cardioneuroablation - a word of hope** *Sebastian Stec, Poland* **Cardiovascular dysautonomia - a common ground for syncope and post-COVID syndrome** *Artur Fedorowski, Sweden* **Syncope in patients with post-infection syndromes** *Branislav Milovanovic, Serbia*	**Arrhythmias in Infectious Diseases** Chair: Manlio Marquez **Atrial fibrillation management in infectious diseases and their complications** *Krzysztof Kaczmarek, Poland* **ECG and arrhythmias in Chagas disease** *Tom Ribeiro, Brazil* **What are we missing from data interpretation?** **A personal experience** *Vassilios Vassilikos, Greece*
16.40-17.30	**ISHNE General Asembly**		
19.00-	**Dinner at Grand Hotel**		

Friday, June 14th		
	Lecture hall: Stora salen	
09.00-09.30	**Soft transient bioelectronics: novel technology for pacing and defibrillation** *Igor Efimov, USA*	
	Lecture hall: Stora salen	Lecture hall: Gustafscenen
09.40-10.40	**Atrial myopathy** Co-chairs: Linda Johnson & Fredrik Holmqvist **Morphological and electrical features of atrial cardiomyopathy** *Uli Schotten, The Netherlands* **Separation of left and right atria in patients with end-stage atrial myopathy** *Yan Huo, Singapore* **Atrial myopathy markers in the general population** *Linda Johnson, Sweden* **Interatrial block and atrial fibrillation in ST-elevation myocardial infarction.** *Maria Baturova, Russia*	**Ventricular arrhythmias** Co-chairs: Anneli Svensson & Jesper Svendsen **Cardiovascular and arrhythmia risk of drugs of abuse: FDA data** *Mori Krantz, USA* **PVC-mediated cardiomyopathy** *Sam Johnston, USA* **ICD for sudden cardiac death prevention: still needed?** *Frieder Braunschweig, Sweden*
10.40-11.10	**Coffee break in the exhibition area**	
	Lecture hall: Stora salen	Lecture hall: Gustafscenen
11.10-12.10	**AF management** Co-chairs: Emma Svennberg & Uli Schotten **Digital Health for AF management** *Rod Passman, USA* **Rate control in AF - Do we know what is best?** *Arnljot Tveit, Norway* **Low-voltage in left atrium: use in AF ablation and pitfalls** *Yan Hou, Singapore* **Effect of active cancer on clinical outcomes in patients with AF** *Takanori Ikeda, Japan*	**ECG Processing and Interpretation: Part 2** Co-chairs: Leif Sörnmo & Thomas Klingenheben **Prognostic value of the QT interval** *Jørgen Kanters, Denmark* **ECG based Quantification of Ventricular Repolarization Variation** *Juan Pablo Martinez, Spain* **ECG in left ventricular hypertrophy - the change of paradigm** *Ljuba Bacharova, Slovakia*
	Lecture hall: Stora salen	
12.15-13.00	**ISE General Asembly and Young Investigator Award/Closing Ceremony**	
13.00	**Grab ´n go lunch**	