49th International Congress on Electrocardiology

Preliminary program

Wednesday, June 12, AM

Plenary lecture (Morning)

June 12 09.00-09.30	**Bill McKenna**	UK	Actionability of genetics in hypertrophic cardiomyopathy: potential for conventional and novel gene therapies

Parallel sessions (Morning)

June 12 09.40-10.40	**1.1 Whole heart modeling**		
	Molly Malekar	Norway	Computational cardiac physiology for new modelers: origins, foundations and future
	Mark Potse	France	Modeling the heart at the micrometer scale
	Axel Loewe	Germany	Computational modeling and simulation of the ECG as an enabling technology for machine learning
	Danila Potyagaylo	Poland	Atrial Anatomy Enhanced by Mixed Reality and 3D Representation of ECG Generation
June 12 09.40-10.40	**1.2 ECG in Acute Coronary Syndrome**		
	Marina Demidova	Sweden	Ventricular arrhythmias and acute coronary syndrome
	Jan Azarov	Russia	ECG prediction of ventricular fibrillation in experimental myocardial ischemia: from the heart to the body surface
	Yochai Birnbaum	USA	ECG challenges in acute STEMI diagnosis
	Pablo Laguna	Spain	ECG signal analysis under ischaemia, and its relation with infarct size, arrhythmia risk and occluded artery
June 12 09.40-10.40	**1.3 Cardiogenetics Part 1**		
	Wojciech Zareba	USA	Risk stratification in LQTS
	Emanuela Locati	Italy	New ECG methodologies and new criteria for risk stratification in channelopathies
	Alex Christensen	Denmark	Familial ST depression syndrom - New channelopathy?
	Mark Haigney	USA	Post-mortem genetic testing

June 12 11.10-12.10	**2.1 AI in Electrocardiology (Oral Abstract Session)**		
	Abhishek Deshmukh	USA	Deep Learning Model-Enabled Electrocardiogram to Localize Premature Ventricular Contractions in Patients Referred for Catheter Ablation
	Josseline Madrid	Spain	ECG-Based Unsupervised Clustering in Coronary Artery Disease associates with cardiovascular events
	Lukas Hughes-Noehrer	UK	Attitudes of clinicians to a 'human-like' explainable AI based on pseudo-colouring of ECGs that exposes life-threatening anomalies
	Manolis Kargiantoulakis	GE	Machine Learning extraction of fully interpretable criteria for ECG interpretation
June 12 11.10-12.10	**2.2 Electrocardiology in Cardiogenetic Diseases (Oral Abstract Session)**		
	Ingegerd Östman-Smith	Sweden	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
	Ksenia Sedova	Czech Republic	Electrical Repolarization Pathway by CineECG Characteristics in LQTS
	Alba Isabel-Roquero	Spain	Longitudinal analysis of 10-second-long ECG-derived biomarkers from patients suffering Brugada Syndrome
		USA	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
June 14 11.10-12.10	**2.3 Congenital Heart Disease ECG**		
	Parvin Dorostkar	USA	ECG in Adult Congenital Heart Disease
	Daniel Cortez	USA	Age-related progression of ECG and VCG abnormalities in congenital heart disease
	Ashley Wong	USA	Vectorcardiography Predictors for Poor Fontan Outcomes: QRSvm and SPQRS-T angle as noninvasive markers of Fontan failure risk
	Frida Wedlund	Sweden	Electrocardiogram proarrhythmic changes in pregnancy in women with congenital heart disease

Plenary session

June 12 14.10-15.10	**3. Computing in Cardiology session**		
	Rob MacLeod	USA	Imaging and ECG
	Pablo Laguna	Spain	Automatic ECG signal analysis for retrieving relevant, visible or hidden, information
	Maria Guillem	Spain	Modeling and simulation for understanding arrhythmia mechanisms and quantifying the accuracy of signal processing methods
	Gari Clifford	USA	The PhysioNet Challenges: public data, code and foundational models for cardiology

Parallel sessions

June 12 15:30-16.30	**4.1 AI in Electrocardiology**		
	Martin Stridh	Sweden	Artificial intelligence in electrocardiology - possibilities and challenges
	Sam Johnston	USA	Artificial intelligence for evaluation of syncope patients
	Tom Ribeiro	Brazil	AI-ECG in epidemiology
	David Albert	USA	How has AI changed computerized ECG interpretation

June 12	15:30-16.30	**4.2 ECG Imaging**		
		Matthijs Cluitmans	The Netherlands	Noninvasive detection of spatiotemporal activation and repolarization through ECGi
		Maria Guillem	Spain	Therapy delivery guidance in the EP lab with imageless ECGi
		Peter van Dam	The Netherlands	Localisation of the ventricular pacing site from BSPM and 12-lead ECG
		Mikhail Chmelevsky	Switzerland	12-lead ECG-based noninvasive epi-endocardial mapping in heart failure patients with non-LBBB
June 12	15:30-16.30	**4.3 Device therapy**		
		Frieder Braunschweig	Sweden	ICD for sudden cardiac death prevention: still needed?
		Bulent Gorenek	Turkey	Management of Arrhythmias During Pregnancy according to the ESC and HRS guidelines
		Rasmus Borgquist	Sweden	ECG-based prediction of the outcome of device therapy
		Panel Discussion		

June 12	16:30-17:30	**Poster reception**		

Thursday, June 13, AM

		Plenary lecture		
June 13	09.00-09.30	**Hugh Calkins**	USA	Gene specific diagnosis and management of arrhythmogenic cardiomyopathy: where do we stand in 2024?

		Parallel sessions		
June 13	09.40-10.40	**5.1 Cardiogenetics Part 2**		
		Bill McKenna	UK	Diagnostic criteria for hypertrophic cardiomyopathy revisited: importance of the electrocardiogram
		Anneli Svensson	Sweden	ECG phenotype in ARVC
		Julia Cadrin-Tourigny	Canada	ARVC: arrhythmic risk prediction to prevent sudden cardiac death
		Kristina Haugaa	Norway	Management of patients with LMNA-associated cardiomyopathy according to 2023 ESC guidelines on cardiomyopathies
June 13	09.40-10.40	**5.2 Syncope and Postural Orthostatic Tachycardia Syndrome**		
		Artur Fedorowski	Sweden	What's new in syncope diagnosis and management A.D. 2024?
		Gary Tse	Hong Kong	Arrhythmic syncope update
		Sam Johnston	USA	ECG analysis in patients with syncope
		Thomas Klingenheben	Germany	POTS - diagnostic and therapeutic update
June 13	09.40-10.40	**5.3 AF Screening**		
		Emma Svennberg	Sweden	Population-based AF screening in Sweden
		Jesper Svendsen	Denmark	Screening for atrial fibrillation using implantable loop recorders
		Jeff Healey	Canada	When should I call it atrial fibrillation?
		Panel Discussion		

June 13	11.10-12.10	**6. Young Investigator Competition (Oral abstract plenary session)**		
		Alexander Siotis	Sweden	P-wave indices predict efficacy outcomes in long-term flecainide treated patients with atrial fibrillation
		Mattias Karlsson	Sweden	High-Resolution In Silico Assessment of Atrioventricular Node Function during Atrial Fibrillation
		Agnese Sbrollini	Italy	P-wave and F-Wave Directionalities in Subjects Affected by Paroxysmal Atrial Fibrillation
		Zainu Nezami	Sweden	Implantable device utilization in real-life patients with heart failure: experience from The HARVEST-Malmö Study

		Plenary session		
June 13	14.10-15.10	**7. ISE and ISHNE Session: Meet the Editor**		
		Manlio Marquez	Mexico	How to get published: 10 tips for young researchers
		Emanuela Locati	Italy	How to review a paper:
		Linda Johnson	Sweden	Is the IF a relevant metric?
		Gary Tse	Hong Kong	
		Yochai Birnbaum	USA	Panel discussion
		Peter Macfarlane	Scotland	
		Vassilios Vassilikos	Greece	

		Parallel sessions		
June 13	15.30-16.30	**8.1 ECG Processing and Interpretation: Part 1**		
		Yochai Birnbaum	USA	T-wave inversion in precordial leads

		Pyotr Platonov	Sweden	P-wave morphology variants: prevalence and relevance
		Mark Haigney	USA	The value of pre-participating screening
		Panel discussion		
June 13	15.30-16.30	**8.2 Autonomic Nervous System and the Heart.**		
		Thomas Klingenheben	Germany	Role of autonomic testing in noncardiac systemic diseases with cardiovascular symptoms
		Sebastian Stec	Poland	Cardioneuroablation - a word of hope
		Artur Fedorowski	Sweden	Cardiovascular dysautonomia - a common ground forsyncope and post-COVID syndrome
		Branislav Milovanovic	Serbia	Syncope in patients with post-infection syndromes
June 13	15.30-16.30	**8.3 Arrhythmias in Infectious Diseases**		
		Krzysztof Kaczmarek	Poland	Atrial fibrillation management in infectious diseases and their complications
		Iwona Cygankiewicz	Poland	SCD prevention in infectious diseases
		Tom Ribeiro	Brazil	ECG and arrhythmias in Chagas disease
		Vassilios Vassilikos	Greece	What are we missing from data interpretation? A personal experience

		Plenary session		
June 13	16:30-17:30	**ISHNE General Asembly**		

Friday, June 14, AM

		Plenary lecture		
June 14	09.00-09.30	**Igor Efimov**	USA	Soft transient bioelectronics: novel technology for pacing and defibrillation

		Parallel sessions		
June 14	09.40-10.40	**9.1 Atrial myopathy**		
		Uli Schotten	The Netherlands	Morphological and electrical features of atrial cardiomyopathy
		Yan Huo	Singapore	Separation of left and right atria in patients with end-stage atrial myopathy
		Linda Johnson	Sweden	Atrial myopathy markers in the general population
		Maria Baturova	Russia	Interatrial block and atrial fibrillation in ST-elevation myocardial infarction.
June 14	09.40-10.40	**9.2 Ventricular arrhythmias**		
		Mori Krantz	USA	Cardiovascular and arrhythmia risk of drugs of abuse: FDA data
		Sam Johnston	USA	PVC-mediated cardiomyopathy
		Bulent Gorenek	Turkey	Management of ventricular storm in ICCU
		Iwona Cygankiewicz	Poland	Sudden cardiac death - are MADIT criteria still useful for risk stratification?

		Parallel sessions		
June 14	11.10-12.10	**10.1 AF management**		
		Rod Passman	USA	Digital Health for AF management
		Arnljot Tveit	Norway	Rate control in AF - Do we know what is best?
		Yan Huo	Singapore	Low-voltage in left atrium: use in AF ablation and pitfalls
		Takanori Ikeda	Japan	Effect of active cancer on clinical outcomes in patients with AF
June 14	11.10-12.10	**10.2 ECG Processing and Interpretation: Part 2**		
		Jørgen Kanters	Denmark	Prognostic value of the QT interval
		Juan Pablo Martinez	Spain	ECG based Quantification of Ventricular Repolarization Variation
		Adrian Baranchuk	Canada	Electrocardiography in the altitude: ECG interpretation for highlanders
		Ljuba Bacharova	Slovakia	ECG in left ventricular hypertrophy - the change of paradigm

		Plenary session		
June 14	12:15-13:00	**ISE General Asembly and Young Investigator Award/Closing Ceremony**		