Saturday June 24th, 2017, 08:30

Collaborative Life Sciences Building

Clinical ECG Fundamentals

Room: Rm. 1 - 3A003A

Chair(s): Charles Henrikson, MD MPH (USA) and Zachary D. Goldberger MD MS (USA)

Length (minutes)

15	**Peter Jessel, MD** Oregon Health & Science University, United States of America Is my patient in a life-threatening arrhythmia? Differential diagnosis of ventricular and supraventricular arrhythmia on 12-lead ECG
15	**Thomas Dewland, MD** Oregon Health & Science University, United States of America Mechanistic diagnosis of atypical atrial flutter from the ECG
15	**Samuel Sclarovsky, MD** Tel Aviv University Sackler Faculty of Medicine, Israel ECG in the physiological and pathological hypertrophic remodeling
15	**Miquel Fiol, MD PhD** Hospital Universitario Virgen del Rocío, Spain ECG in Emergency patients with chest pain
15	**Charles Henrikson, MD MPH** Oregon Health & Science University, United States of America AV block after TAVR: can we predict it and prevent complications?
15	**Panel Discussion** All questions saved for panel discussion for all speakers to address as a group

Saturday June 24th, 2017, 08:30

Collaborative Life Sciences Building

Young Investigator Rapid Fire Abstracts

Room: Rm. 2 - 3A003B

Chair(s): Larisa Tereshchenko, MD PhD (USA) and Peter MacFarlane, DSc FRCP (UK)

Length (minutes)

5 + 3 Q&A	**Daniel Cortez, MD** (USA)
	Derived-VCG and cardiac catheterization predictors of atrial arrhythmias in patients with the Fontan palliation
5 + 3 Q&A	**Bryce Alexander, BSc** (Canada)
	Coronary artery disease and interatrial block: implications for new-onset atrial fibrillation
5 + 3 Q&A	**Erica Clarke Whalen, MBBS** (Canada)
	Gender equity imbalance in electrocardiology: A call to action
5 + 3 Q&A	**Muammar Kabir, PhD** presented by **Erick Andres Perez Alday, PhD** (USA)
	Optimal configuration of adhesive ECG patches for long term vectorcardiogram monitoring
5 + 3 Q&A	**Akitoshi Chikamoto, undergraduate student** (Japan)
	The characterization of autonomic nervous function in Senescence Accelerated Mouse-Prone 8 (SAMP8)
5 + 3 Q&A	**Erick Andres Perez Alday, PhD** (USA)
	New method to digitize electrocardiograms printed in multiple formats
5 + 3 Q&A	**Charlotte Stephansen, MD-PhD student** (Denmark)
	Interventricular delay in cardiac resynchronization therapy: Inter observer agreement when aiming for the narrowest paced QRS complex
5 + 3 Q&A	**Harley Stevenson-Cocks, BSc** (United Kingdom)
	A novel model of rat ventricular electrophysiology reveals mechanisms of spontaneous Ca2+ release in heart failure
5 + 3 Q&A	**Jaume Coll-Font, PhD** (USA)
	Tracking the heart movement with the ECG; Correcting the respiration movement of the heart in a porcine model
5 + 3 Q&A	**Mehak Idrees, MD** (USA)
	Sex-Specific differences in QRS characteristics of LBBB in heart failure patients undergoing cardiac resynchronization therapy

Saturday June 24th, 2017, 10:30

Collaborative Life Sciences Building

Sudden cardiac death and ECG screening in athletes

Room: Rm. 1 - 3A003A

Chair(s): Jordan Prutkin, MD MHS (USA) and Chuck Swerdlow, MD (USA)

Length (minutes)	
15	**Eric Stecker, MD MPH**
	Oregon Health & Science University, United States of America
	Epidemiology of sudden cardiac death in community and in athletes
15	**Jordan Prutkin, MD MHS**
	University of Washington, United States of America
	International criteria for electrocardiographic interpretation in athletes
15	**Ronn Tanel, MD**
	University of San Francisco California, United States of America
	Asymptomatic WPW in young athletes
15	**Seshadri Balaji, MD**
	Oregon Health & Science University, United States of America
	Risk stratification for sudden death in children and adolescents with HCM. What do we know? What do we need to know?
15	**Chuck Swerdlow, MD**
	University of California Los Angeles, United States of America
	ICD in athletes: how to achieve the best clinical outcomes and avoid complications
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Saturday June 24th, 2017, 10:30

Collaborative Life Sciences Building

Young Investigator Rapid Fire Abstracts

Room: Rm. 2 - 3A003B

Chair(s): Larisa Tereshchenko, MD PhD (USA) and Peter MacFarlane, DSc FRCP (UK)

Length (minutes)

5 + 3 Q&A	**Aron Bender, MD** (USA) Ventricular pre-excitation on ECG is independently associated with incident atrial fibrillation in a prospective community cohort study
5 + 3 Q&A	**Shulun Zang, MD** (USA) Temporal dispersion of repolarization are associated with defibrillator therapies for ventricular arrhythmias
5 + 3 Q&A	**Audrey Uy-Evanado, MD** (USA) Aggressive blood glycemic control among diabetics and risk of sudden cardiac death
5 + 3 Q&A	**Noelle Garster** (presented by **Charles Henrikson, MD MPH** (USA)) Bedside identification of patients at risk for PVC-induced cardiomyopathy: Is ECG useful?
5 + 3 Q&A	**Carmen Rusinaru, MD PhD** (USA) A novel non-Invasive sex- specific risk marker for sudden cardiac death with preserved ejection fraction
5 + 3 Q&A	**Rolf Oberholzer** (presented by **Roger Abächerli, PhD** (Switzerland) Reconstruction of the ECG from the VCG is posture dependent
5 + 3 Q&A	**Chetan Lokhande, MD** (USA) "Ideally" placed left ventricular leads for CRT yield different paced EKG findings in patients with left bundle branch block: Anatomical vs electrical optimization
5 + 3 Q&A	**Chetan Lokhande, MD** (USA) How Effectively does application of strict ("Strauss") criteria for LBBB diagnosis exclude patients with increased LV mass?
5 + 3 Q&A	**Petros Arsenos, MD PhD** (Greece) Programmed ventricular stimulation predicts sudden cardiac death in heart failure patients with preserved ejection fraction
5 + 3 Q&A	**Petros Arsenos, MD PhD** (Greece) Increased prevalence of late potentials on signal-averaged electrocardiogram in psychiatric patients

Collaborative Life Sciences Building

Debate: I shall only consider CRT for HF patients with Classic LBBB

Room: Rm. 1 - 3A003A

Referee: Chuck Swerdlow, MD (USA)

Length (minutes)
45   **Wojciech Zareba, MD PhD** (pro)
University of Rochester, United States of America

vs.

Niraj Varma MD PhD (con)
Cleveland Clinic, United States of America

Saturday June 24th, 2017, 13:00

Collaborative Life Sciences Building

Clinical ECG Cases Review

Room: Rm. 2 - 3A003B

Chair(s): Zachary Goldberger, MD MS (USA)

Panel: Charles Henrikson MD MPH (USA), Eric Stecker MD MPH (USA), Chuck Swerdlow, MD (USA), Jordan Prutkin, Seshadri Balaji MD (USA), Samuel Sclarovsky, MD (Israel)

Length (minutes)	
7 + 3 Q&A*	**Tuan Mai, MD** (USA)
	Macroreentrant Atrial Flutter Circuits Involving Native and Donor Atria after Bilateral Lung Transplant
7 + 3 Q&A*	**Angela Krebsbach PA-C, MS** (USA)
	Inappropriate Ventricular Pacing in an Newly Transplanted Heart with Normal AV Conduction
7 + 3 Q&A*	**Sanoj Chacko** (Canada)
	CRT-AutoCapture Induced Ventricular Arrhythmia
7 + 3 Q&A*	**Sanoj Chacko** (Canada)
	Wenckebach Periods of Alternate Beats: An Unusual Phenomenon
5	**Buffer time**

*subject to panel discretion

Saturday June 24th, 2017, 14:00

Collaborative Life Sciences Building

ECG monitoring and big data

Room: Rm. 1 - 3A003A

Chair(s): Iwona Cygankiewicz, MD PhD (Poland) and Jonathan Steinberg, MD (USA)

Length (minutes)	
15	**Iwona Cygankiewicz, MD PhD** Medical University of Łódź, Poland Clinical indications for AECG monitoring - ISHNE/HRS consensus
15	**Suave Lobodzinski, PhD** University of California Los Angeles, United States of America Is Holter Obsolete? State -of-the-art ambulatory ECG long-term monitoring in the 21st century
15	**Emanuela Teresa Locati, MD PhD** Milano, Italy Long-term ECG monitoring in unexplained syncope and palpitations: SYNARR-Flash study and beyond
15	**Jonathan Steinberg, MD** Summit Medical Group, United States of America The battle for long-term ECG monitoring supremacy: smartphone ECG versus implantable loop recorder
15	**Ken Stein, MD** Boston Scientific, United States of America Promises and pitfalls of big data
15	**Panel Discussion** All questions saved for panel discussion for all speakers to address as a group

Saturday June 24th, 2017, 14:00

Collaborative Life Sciences Building

How to record ECG

Room: Rm. 2 - 3A003B

Chair(s): Barbara Drew, RN PhD (USA), and Paul Kligfield, MD (USA)

Length (minutes)

15	**Paul Kligfield, MD**
	Weill Cornell Medical College, United States of America
	Errors in ECG acquisition: precordial electrode placement and lead wire switches
15	**Roger Abächerli, PhD**
	SCHILLER AG, Baar, & Cardiovascular Research Institute Basel, Switzerland
	The estimated ECG angles derived by VCG significantly differ when electrode positions and body build are included into the vector calculation model
15	**Nora Goldschlager, MD**
	University of California San Francisco, United States of America
	Artifacts that affect interpretation of the ECG
15	**Barbara Drew, RN PhD**
	University of California San Francisco, United States of America
	Causes of false alarms with in-patient monitoring
15	**Peter MacFarlane, DSc FRCP**
	University of Glasgow, United Kingdom
	Assessment of Bandwidth for Pediatric ECGs
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Saturday June 24th, 2017, 15:45

Collaborative Life Sciences Building

Welcome Remarks and ISHNE Keynote

Room: Combined

Length (minutes)

15   **Welcome Remarks**
            Larisa Tereshchenko, MD PhD
            Oregon Health & Science University, United States of America
            Sanjiv Kaul, MD
            Oregon Health & Science University, United States of America
            Wojciech Zareba, MD PhD
            University of Rochester, United States of America
            Jonathan Steinberg
            Summit Medical Group, United States of America

55   **ISHNE Keynote**
            Niraj Varma MD PhD
            Cleveland Clinic, United States of America
            Remote monitoring of Cardiac Implantable Electronic Devices: from Curiosity to
            Class 1 Recommendation

Saturday June 24th, 2017, 17:00

Collaborative Life Sciences Building

Mechanisms, ECG manifestation, and risk stratification

Room: Rm. 1 - 3A003A

Chair(s): Lin Yee Chen, MD MS (USA), and Mark Niebauer, MD PhD (USA), Przemyslaw Guzik, MD PhD (Poland)

Length (minutes)

15	**Ignatius G Zarraga, MD** Oregon Health & Science University, United States of America Just how helpful is the ECG in the congenital long QT syndrome?
15	**Takanori Ikeda, MD** University of Tokyo, Japan Risk stratification using noninvasive techniques in Brugada syndrome
15	**Mark Niebauer, MD PhD** Cleveland Clinic, United States of America QRS frequency analysis in bundle branch block: clinical outcomes and CRT response
15	**Marek Malik, MD** Imperial College London, United Kingdom QRS microfractionations in ICD recipients
8	**Erick Andres Perez Alday, PhD** Oregon Health & Science University, United States of America Anisotropy of ventricular conduction is more prominent during ventricular tachycardia, as compared to sinus rhythm
8	**Wilson Good, BSc, PhD Student** University of Utah, United States of America Detecting Ischemic Stress Using Laplacian Eigenmaps
14	**Panel Discussion** All questions saved for panel discussion for all speakers to address as a group

Saturday June 24th, 2017, 17:00

Collaborative Life Sciences Building

How to teach clinical ECG

Room: Rm. 2 - 3A003B

Chair(s): Adrian Baranchuk, MD (Canada) and Victor Froelicher, MD (USA)

Length (minutes)		
15	**Adrian Baranchuk, MD**	
	Queen's University, Canada	
	How and what to teach EP Fellows about Electrocardiology	
45	**Joshua Landy, MD**	
	Co-Founder Figure 1, Canada	
	Online ECG Education: The experience of Figure 1	
15	**Zachary Goldberger, MD MS**	
	University of Washington, United States of America	
	Roundtable discussion	
15	**Antonio Bayés de Luna, MD**	
	Hospital Quirónsalud Barcelona, Spain	
	Roundtable discussion	

6. 30 pm Reception at CLSB for all

Sunday June 25th, 2017, 08:30

Collaborative Life Sciences Building

Interatrial Block and Bayés' Syndrome: New paradigm in the prediction of AF, Stroke and Cognitive Impairment?

Room: Rm. 1 - 3A003A

Chair(s): Antonio Bayés de Luna, MD (Spain) and Adrian Baranchuk, MD (Canada)

Length (minutes)

15	**Antonio Bayés de Luna, MD**
	Hospital Quirónsalud Barcelona, Spain
	Interatrial block: from the surface ECG to the Cardiac Magnetic Resonance
15	**Pyotr Platonov, MD**
	Lund University, Sweden
	A comprehensive anatomical review of the Bachmann bundle and adjacent structures
15	**Larisa Tereshchenko, MD PhD**
	Oregon Health & Science University, United States of America
	Interatrial block and Deep Terminal Negativity of P-wave in V1: Friend or foe?
15	**Lin Yee Chen, MD MS**
	University of Minnesota, United States of America
	P wave indices and their predictive ability for stroke in AF
15	**Adrian Baranchuk, MD**
	Queen's University, Canada
	Interatrial block and atrial fibrillation- the Bayés Syndrome: Are we ready for "prime time?"
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Sunday June 25th, 2017, 08:30

Collaborative Life Sciences Building

How to code ECG

Room: Rm. 2 - 3A003B

Chair(s): JP Couderc, PhD MBA (USA) and Roger Abächerli, PhD (Switzerland)

Length (minutes)

15	**Kjell Nikus, MD PhD**
	Tampere University Hospital, Finland
	Challenges with the definition of the Q wave, the J point and the T wave
15	**Marek Malik, MD**
	Imperial College London, United Kingdom
	T-peak: what does it mean and how to identify it?
15	**JP Couderc, PhD MBA**
	University of Rochester, United States of America
	Improving Reproducibility, Increasing Standards of ECG analyses, and sharing the data: THEW ECG Warehouse experience
15	**Fabio Badilini, PhD**
	AMPS-LLC, United States of America
	New techniques for long-preserving storage and analysis of digital ECGs
15	**Roger Abächerli, PhD**
	SCHILLER AG, Baar, & Cardiovascular Research Institute Basel, Switzerland
	ECG measurement changes due to the first-order high-pass filter
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Sunday June 25th, 2017, 10:15

Collaborative Life Sciences Building

Pierre Rijlant Lecture

Room: Combined

Length (minutes)

60   **Victor Froelicher, MD**
Stanford University, United States of America
Perspectives on the Future of Electrocardiography

Sunday June 25th, 2017, 11:15

Collaborative Life Sciences Building

ISHNE general assembly

Room: Combined

Length (minutes)
30   **Jonathan Steinberg, MD**
Summit Medical Group, United States of America

Sunday June 25th, 2017, 13:00

Collaborative Life Sciences Building

Debate: Early repolarization pattern – is it over hyped?

Referee: Victor Froelicher, MD (USA)

Room: Rm. 1 - 3A003A

Length (minutes)

45   **Peter MacFarlane, DSc FRCP** (pro)
University of Glasgow, United Kingdom

Vs.

Sami Viskin, MD (con)
Tel-Aviv Medical Center, Israel

Sunday June 25th, 2017, 13:00

Collaborative Life Sciences Building

Clinical ECG cases review panel

Room: Rm. 2 - 3A003B

Chair(s): Kjell Nikus

Panel: Takanori Ikeda, MD (Japan), Andrés Ricardo Pérez-Riera, MD PhD (Brazil), Pyotr Platonov, MD (Sweden), Yochai Birnbaum, MD (USA)

Length (minutes)

7 + 3 Q&A*   **Carlos Alberto Pastore**, **MD PhD** (Brazil)
Brugada pattern with and without right bundle-branch block: how can VCG differentiate them

7 + 3 Q&A*   **Michał Kałowski, MD** (Poland)
ECG paper with traces of soot – Abnormalities in the recording of the victim of carbon monoxide poisoning

7 + 3 Q&A*   **Michał Kałowski, MD** (Poland)
Misdiagnosis of pacemaker dysfunction due to impaired intraatrial conduction caused by severe fibrosis of atria in patient with scleromyositis

7 + 3 Q&A*   **Paulina Przyżycka (**presented by **Michał Kałowski, MD** (Poland))
Third time lucky – Don't let the patient die for the fourth time

5   **Buffer time**

*subject to panel discretion

Sunday June 25th, 2017, 13:50

Collaborative Life Sciences Building

From genetics to genomics of ECG phenotypes to cardiac modeling

Room: Rm. 1 - 3A003A

Chair(s): Larisa Tereshchenko, MD PhD (USA) and Sami Viskin, MD (Israel)

Length (minutes)

20	**Nona Sotoodehnia, MD MPH**
	University of Washington, United States of America
	Genomics of Cardiac Electrical Activity
20	**Sami Viskin, MD**
	Tel-Aviv Medical Center, Israel
	Proarrhythmic Effects of Cardiac Memory
20	**Remi Dubois, PhD**
	ESPCI, France
	Ventricular fibrillation: what we can learn from noninvasive mapping
20	**Hector Barajas-Martinez, PhD**
	Masonic Medical Research Laboratory, United States of America
	Genetics in Sudden Cardiac Death Syndromes
10	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Sunday June 25th, 2017, 13:50

Collaborative Life Sciences Building

Young Investigators Competition Finalists

Room: Rm. 2 - 3A003B

Chair(s): Peter MacFarlane, DSc FRCP (UK), Rob MacLeod, PhD (USA), Jonathan Steinberg, MD (USA), Wojciech Zareba, MD PhD (USA)

Length (minutes)

10 + 5 Q&A	**Farhad Pashakhanloo, PhD** (USA)
	Influence of myofiber architecture on the anisotropic wave propagation and electrogram waveforms using image based computer models of human atria
10 + 5 Q&A	**Golriz Sedaghat, BSc, Masters Student** (USA)
	Continuous activation through the entire cardiac cycle discriminates reentrant vs. focal ventricular tachycardia on surface ECG
10 + 5 Q&A	**Erick Andres Perez Alday, PhD** (USA)
	Novel non-invasive algorithm to identify atria reentry and ectopic foci origins from a multi system array. A computational study
10 + 5 Q&A	**Jason Thomas, BSc** (USA)
	Global electrical heterogeneity in young athletes
10 + 5 Q&A	**Kensuke Sakata, MD** (Japan)
	Not all non-paroxysmal atrial fibrillation drivers are included in complex fractionated electrogram area or low voltage area: ExTRa mapping project
10 + 5 Q&A	**Joseph Allencherril, MD** (USA)
	Q waves in V1-V3 do not represent strict basal anteroseptal infarcts: late gadolinium enhancement cardiovascular magnetic resonance imaging correlations

Sunday June 25th, 2017, 15:35

Collaborative Life Sciences Building

Innovative technologies in electrophysiology of the 21st century

Room: Rm. 1 - 3A003A

Chair(s): Sami Viskin, MD (Israel) and Larisa Tereshchenko, MD PhD (USA)

Length (minutes)	
20 + 5 Q&A	**Charles Swerdlow, MD**
	University of California Los Angeles, United States of America
	Innovations in Clinical Electrophysiology
20 + 5 Q&A	**Leslie Tung, PhD**
	Johns Hopkins, United States of America
	Electrophysiology of Engineered Cardiac Tissues Using Human Induced Pluripotent Stem Cells

Sunday June 25th, 2017, 15:35

Collaborative Life Sciences Building

In memoriam Mike Laks and Galen Wagner Lectures

Chairs: Peter MacFarlane, DSc FRCP (UK), Wojciech Zareba, MD PhD (USA)

Room: Rm. 2 - 3A003B

Length (minutes)

20 + 5 Q&A	**Suave Lobodzinski, PhD**
	University of California Los Angeles, United States of America
	History of a God's signal discoveries
20 + 5 Q&A	**Yochai Birnbaum, MD**
	Baylor College of Medicine, United States of America
	Prediction of right atrial volume index by electrocardiography: ECG-echocardiography correlations in patients with pulmonary hypertension

Sunday June 25th, 2017, 16:35

Collaborative Life Sciences Building

Ventricular conduction abnormalities and left ventricular dyssynchrony

Room: Rm. 1 - 3A003A

Chair(s): Van Oosterom, PhD (Netherlands) and Sami Viskin, MD (Israel)

Length (minutes)

15	**Ljuba Bacharova, MD, DSc, MBA** International Laser Centre, Slovakia Intraventricular conduction abnormalities - a link between arrhythmias and QRS complex patterns
15	**Van Oosterom, PhD** Radboud University Nijmegen, The Netherlands How simulation of RBBB and LBBB is implemented in ECGSIM
15	**Laura Bear, PhD** The Electrophysiology and Heart Modeling Institute (LIRYC), France Detection of Electrical Dyssynchrony by Electrocardiographic Imaging
15	**Junaid Zaman, MD PhD** presented by **(Chuck Swerdlow, MD,** UCLA**)** Imperial College London, United Kingdom and Stanford University, USA Electrical Characteristics of Defibrillation Lead Dislodgement to the Atrium
15	**Al Benson BSc, PhD** University of Leeds, United Kingdom hERG Channel Activators and Vulnerability to Re-entrant Arrhythmias: A Computational Study of the Roles of Potassium and Sodium Currents
15	**Panel Discussion** All questions saved for panel discussion for all speakers to address as a group

Sunday June 25th, 2017, 16:35

Collaborative Life Sciences Building

ECG imaging of arrhythmias and ischemia

Room: Rm. 2 - 3A003B

Chair(s): Rob MacLeod, PhD (USA) and Dana Brooks, PhD (USA)

Length (minutes)	
15	**Dana Brooks, PhD** Northeastern University, United States of America Technical challenges to wider clinical adoption of ECGI
15	**Michał Kania, PhD** The Electrophysiology and Heart Modeling Institute (LIRYC), France Evaluation of a new method for three-dimensional prediction of the exit site of ventricular tachycardia
15	**Peter van Dam, PhD** Peacs BC, Netherlands The path of the mean spatio-temporal activation isochrone derived from the 12 Lead-ECG to localize the PVC origin
15	**Milan Tyšler, PhD** Slovak Academy of Sciences, Slovakia Evaluation of using reduced number of mapping leads for noninvasive localization of ectopic ventricular activity
15	**Brett Burton, BSc, PhD student** University of Utah, United States of America The effect of subject-specific ischemic zone geometries on body surface potentials
15	**Panel Discussion** All questions saved for panel discussion for all speakers to address as a group

Monday June 26th, 2017, 08:30

Portland Art Museum

Autonomic nervous system and arrhythmogenesis

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Leslie Tung, PhD (USA) and Peng-Sheng Chen, MD (USA)

Length (minutes)

15	**Beth Habecker, PhD**
	Oregon Health & Science University, United States of America
	Cardiac Autonomic Nervous System fundamentals
15	**Peng-Sheng Chen, MD**
	University of Indiana, United States of America
	Recording of skin sympathetic nerve activity on ECG
15	**Marek Malik, MD**
	Imperial College London, United Kingdom
	Heart rate variability - what does it mean and what we measure?
15	**Georg Schmidt, MD**
	Technische Universität München, Germany
	Baroreflex sensitivity assessment using heart rate turbulence
15	**Larisa Tereshchenko, MD PhD**
	Oregon Health & Science University, United States of America
	Can ECG assess sympathetic nerves density in the ventricles?
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Monday June 26th, 2017, 08:30

Portland Art Museum

Acute ischemia, myocardial injury, and an old scar

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Samuel Sclarovsky, MD (Israel) and Miquel Fiol, MD (Spain)

Length (minutes)

15	**Miquel Fiol, MD**
	Hospital Universitario Virgen del Rocío, Spain
	Where is the culprit artery in patients with ACS
15	**Petros Arsenos, MD PhD**
	Hippokration Hospital, Greece
	Primary prevention of sudden cardiac death in post-myocardial infarction Patients with preserved ejection fraction: PRESERVE-EF Study
15	**Cees A. Swenne, PhD**
	Leiden University Medical Center, The Netherlands
	Subtraction electrocardiography to improve myocardial ischemia detection
15	**Rob Macleod, PhD**
	University of Utah, United States of America
	Myocardial ischemia and its ECG Signature: 100 years of Forgery?
15	**Ian Azarov, MD**
	Institute of Physiology/Komi Science Center, Russia
	Activation Delay in midmyocardium under experimental coronary occlusion in pigs is associated with j-wave development on body surface ECG
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Monday June 26th, 2017, 11:00

Portland Art Museum

Mark Josephson lecture

Room: Rm. 1 - Kridel Grand Ballroom

Length (minutes)
55   **Kalyanam Shivkumar, MD**
University of California Los Angeles, United States of America
Autonomic nervous system and ventricular arrhythmias: mechanisms and
therapeutic opportunities

Monday June 26th, 2017, 11:55

Portland Art Museum

ISE General Assembly

Room: Rm. 1 - Kridel Grand Ballroom

Length (minutes)
30 **Wojciech Zareba, MD PhD**
University of Rochester, United States of America

Monday June 26th, 2017, 13:30

Portland Art Museum

Debate: ECG should be used for SCD risk stratification

Room: Rm. 1 - Kridel Grand Ballroom

Referee(s): Peng-Sheng Chen, MD (USA)

Length (minutes)
45   **Larisa Tereshchenko, MD PhD (pro)**
Oregon Health & Science University, United States of America
It is all about the electrical signature of the arrhythmia

Vs.

Jeffrey Goldberger, MD MBA (con)
University of Miami, United States of America
Imaging is paramount. We don't need an ECG

Monday June 26th, 2017, 13:30

Portland Art Museum

Clinical ECG cases review: roundtable discussion

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Adrian Baranchuk, MD (Canada)

Panel: Antonio Bayés de Luna, MD (Spain), Victor Froelicher, MD (USA), Carlos Pastore

Length (minutes)
7 + 3 Q&A*   **Nelson Samesima, MD PhD** (Brazil)
          Brugada syndrome ablation: What the Vectorcardiogram can tell us?
7 + 3 Q&A*   **Brooks Walsh, MD** (USA)
          Giant R Waves in Hyperacute Myocardial Infarction: Hyperkalemia Mimic?
7 + 3 Q&A*   **Brooks Walsh MD** (USA)
          Hyperventilation-Provoked STE and TWI in a Young Afro-Caribbean Adult Woman
7 + 3 Q&A*   **Brooks Walsh MD** (USA)
          Subacute Occlusion of the Proximal RCA Producing Anterior Q waves and T Wave
          Inversion
5   **Buffer time**

*subject to panel discretion

Monday June 26th, 2017, 14:25

Portland Art Museum

Atrial Fibrillation Symposium

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Wojciech Zareba, MD PhD (USA), Jeffrey Goldberger, MD MBA (USA)

Length (minutes)	
20	**Jeffrey Goldberger, MD MBA** University of Miami, United States of America Atrial Myopathy Underlying Atrial Fibrillation: Arrhythmogenic and Thrombogenic Substrate
20	**Maria Guillem, PhD** Universitat Politècnica de València, Spain Noninvasive estimation of hierarchical activation patterns during atrial fibrillation by Electrocardiographic Imaging
20	**Takanori Ikeda, MD** Toho University, Japan Antithrombotic treatment for prevention of stroke due to atrial fibrillation: Real-world evidence
20	**Wojciech Zareba, MD PhD** University of Rochester, United States of America Effect of Ranolazine on Atrial and Ventricular Arrhythmias
10	**Panel Discussion** All questions saved for panel discussion for all speakers to address as a group

Monday June 26th, 2017, 14:25

Portland Art Museum

Traditional and Novel ECG analyses

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Merritt Raitt, Rob Macleod, PhD (USA)

Length (minutes)

15   **Merritt Raitt, MD**
                 Oregon Health & Science University, United States of America
                 Differential diagnosis of supraventricular arrhythmias on 12-lead ECG

15   **Heemun Kwok, MD MS**
                 University of Washington, United States of America
                 Method for Rhythm Classification during CPR

15   **Marcio Sturmer, MD**
                 University of Montreal, Canada
                 New Criteria Using Initial Activation in V1 and V2 for the Differential Diagnosis of
                 Wide Complex Tachycardia

15   **Michael A Colman, PhD**
                 University of Leeds, United Kingdom
                 Multi-scale Computational Modeling of Spontaneous Calcium Release Events in
                 the Human Atria

15   **Takashi Ashihara, MD PhD**
                 Shiga University of Medical Science, Japan
                 ExTRa Mapping-Guided Non-Passively Activated Area Ablation is very Effective for
                 Patients with Non-Paroxysmal Atrial Fibrillation

8   **Jess Tate, PhD student**
                 University of Utah, United States of America
                 A Sampling Strategy for Reducing Error in ECG Forward Simulation

7   **Panel Discussion**
                 All questions saved for panel discussion for all speakers to address as a group

Tuesday June 27th, 2017, 08:30

Portland Art Museum

Cardiomyopathies

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Zachary Goldberger, MD MS (USA), Mark Haigney, MD (USA)

Length (minutes)

15   **Mark Haigney, MD**
Uniformed Services University, United States of America
Opioid-induced Sudden Death: Diagnostic and prognostic value of ECG and ECG monitoring

15   **Frank I. Marcus, MD**
University of Arizona, United States of America
Arrhythmogenic right ventricular dysplasia/cardiomyopathy (ARVD/C): ECG diagnostic and prognostic criteria

15   **John Madias, MD**
Mount Sinai Medical Center, United States of America
Can ECG help to diagnose Takotsubo (stress) cardiomyopathy?

15   **Antoni Ribeiro, MD PhD**
Federal University of Minas Gerais Belo Horizonte, Brazil
ECG in Chagas disease: diagnostic and prognostic criteria

15   **Petros Arsenos, MD PhD**
Hippokration Hospital, Greece
Primary prevention of sudden cardiac death in hypertrophic cardiomyopathy: prospective cohort study

15   **Panel Discussion**
All questions saved for panel discussion for all speakers to address as a group

Tuesday June 27th, 2017, 08:30

Portland Art Museum

Many faces of cardiac repolarization

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Christine Tompkins, MD (USA), Rob MacLeod, PhD (USA)

Length (minutes)

15	**Christine Tompkins, MD**
	University of Colorado Denver, United States of America
	Gender differences in ventricular repolarization properties: going beyond the QT interval
15	**Petros Arsenos, MD PhD**
	Hippokration Hospital, Greece
	Non-invasive risk stratification of sudden cardiac death in heart failure: comparison of QT interval, T-wave alternans, and deceleration capacity
15	**Ramun Schmid (presented by Roger Abächerli, PhD)**
	SCHILLER AG, Baar, Switzerland
	ST segment correction formula for AC-coupled Electrocardiogram
15	**Ksenia Sedova, PhD**
	Czech Technical University in Prague, Czech Republic
	Repolarization Parameters for Predicting Ventricular Tachyarrhythmias in Ischemia/Reperfusion Model
15	**Michele Pelter, PhD**
	University of San Francisco, United States of America
	Evaluation of algorithms designed to detect transient myocardial ischemia in patients with acute coronary syndrome
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Tuesday June 27th, 2017, 10:30

Portland Art Museum

Ion channels and channelopathies

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Leslie Tung, PhD (USA), Peter Ruben, PhD (Canada)

Length (minutes)

15	**Zachary Goldberger, MD MS**
	University of Washington, United States of America
	Channel(opathy) surfing in 2017: Considerations for the clinician
15	**Wojciech Zareba, MD PhD**
	University of Rochester, United States of America
	Long QT syndrome: diagnosis, prognosis, and treatment
15	**Peter Ruben, PhD**
	Simon Fraser University, Canada
	Arrhythmogenic triggers in a LQT3/Brugada mixed syndrome sodium channel mutant, E1784K
15	**Peter Larsson, PhD**
	University of Miami, United States of America
	Modified polyunsaturated fatty acids a Long QT Syndrome therapeutics
15	**Hector Barajas-Martinez**
	Masonic Medical Research Laboratory, United States of America
	Molecular genomics update in short QT syndrome
15	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Tuesday June 27th, 2017, 10:30

Portland Art Museum

Atrial Fibrillation mechanisms and ECG monitoring

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Dawood Darbar, MBChB, MD (USA), Marmar Vaseghi, MD (USA)

Length (minutes)	
20	**Jonathan Steinberg, MD**
	Summit Medical Group, United States of America
	Duration of detected AF and outcomes: does it matter?
20	**Larisa Tereshchenko, MD PhD**
	Oregon Health & Science University, United States of America
	Network meta-analysis of anti-embolic interventions
20	**Dawood Darbar, MBChB, MD**
	University of Illinois College of Medicine, United States of America
	Genomics of atrial fibrillation
20	**Marmar Vaseghi, MD**
	University of California Los Angeles, United States of America
	Cardiac autonomic control and its modulation for prevention and treatment of atrial fibrillation
10	**Panel Discussion**
	All questions saved for panel discussion for all speakers to address as a group

Tuesday June 27th, 2017, 12:00

Portland Art Museum

Closing remarks and awards ceremony

Room: Rm. 1 - Kridel Grand Ballroom

Length (minutes)

30   **Jonathan Steinberg, MD**
Summit Medical Group, United States of America
Wojciech Zareba, MD PhD
University of Rochester, United States of America
Rob Macleod, PhD
University of Utah, United States of America