



FINAL PROGRAM



16th ISHNE

Congress of the International Society for Holter and Noninvasive Electrocardiology

Congrès commun avec la 10^{ème} journée de formation continue en Rythmologie et la 2^{ème} Journée Nationale de la filière nationale de santé CARDIOGEN

Chairman: Philippe CHEVALIER, Lyon - FRA

Scientific Committee: Jean-Philippe COUDERC, Rochester - USA – Iwona CYGANKIEWICZ, Lodz - POL
Sergio DUBNER, Buenos Aires - ARG – Derek EXNER, Calgary - CAN – Mark HAIGNEY, Bethesda - USA
Ryszard PIOTROWICZ, Warsaw - POL – Jonathan STEINBERG, New York - USA – Richard VERRIER, Boston - USA
Wojciech ZAREBA, Rochester - USA

June, 4-6 2015

LYON, FRANCE

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CENTRE DE CONGRES

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Dear Colleagues and Friends,

On behalf of the Organizing and Scientific Committees, I am pleased to welcome you to the International Society of Holter and Non-Invasive Electrocardiography (ISHNE) annual meeting held on June 4-6, 2015, at the "Espace Tête d'Or" in Lyon, France.

The ISHNE meeting is a great opportunity to network and learn from one another, as well as to develop professional skills. The program includes sessions for electrophysiologists, general cardiologists, physicians working in

sports medicine, and family physicians, as well as technicians working in pacing, EP, and cardiac care units. The latest innovations in medical devices and biotechnology will be highlighted and plenary sessions will enable fruitful scientific exchanges with the best speakers in their fields.

I am also confident that you will enjoy Lyon, a modern international city set in a marvelous location. "Vieux Lyon", its unique Old Town, is a UNESCO World Heritage site.

Prof. Philippe CHEVALIER



TOPICS:

- Basic translational science (*metabolism, oxidative stress, molecular biology*)
- Biomarkers in arrhythmogenic cardiac diseases
- Cardiac channelopathies
- Catheter ablation
- Clinical electrophysiology and electro-anatomic mapping
- Implantable cardiac electronic devices
- Heart failure
- Pediatrics and adult congenital heart disease
- The aging heart: adjusting to the changing demographic
- Heart and brain interactions: evaluating the autonomic nervous system
- Sports and cardiovascular health
- Digital health at the crossroad of technology and cardiology

08:30 DILATED CARDIOMYOPATHY**Chairman: Y. ROSENBERG, Bethesda - USA**

- Genetics of dilated cardiomyopathy
- LINC complexes in health and disease
- Sodium channelopathy in dilated cardiomyopathy

*L. MESTRONI, Aurora - USA**A. MEJAT, Lyon - FRA**M. CHAHINE, Quebec - CAN***09:30 GATECHOLAMINERGIC POLYMORPHIC VENTRICULAR TACHYCARDIA***SFC rhythmology group***Chairmen: B. BREMBILLA-PERROT, Nancy - FRA – G. LAURENT, Dijon - FRA**

- Diagnosis and treatment of CPVT *A. LEENHARDT, Paris - FRA*
- Unexplained sudden death, focusing on genetics and family phenotyping *H. RAJU, London - UK*
- Functional studies of RYR2 and CASQ2 variants *N. ROUX-BUISSON, Grenoble - FRA*
- Extinguishing intracellular calcium leak: a promising antiarrhythmic approach? *S. RICHARD, Montpellier - FRA*

10:30 – 11:00 ☕ BREAK**11:00 EVALUATION AND MANAGEMENT OF PATIENTS WITH SYNCOPE****Chairmen: J.-L. PASQUIE, Montpellier - FRA – P. STONE, Boston - USA**

- Risk stratification and clinical decision-making *S. MITTAL, New York - USA*
- Syncope and the role of autonomic imbalance *V. MOGA, Timisoara - ROM*
- How to identify pacemaker candidates? *B. OLSHANSKY, Urbana-Champaign - USA*
- Atrio-ventricular block *L. de ROY, Wavre - BEL*
- Long-term ambulatory ECG monitoring: role in diagnosing patients with syncope *E. LOCATI, Milan - ITA*

12:30 – 14:00 🎧 BREAK**14:00 CARDIAC RESYNCHRONIZATION THERAPY****Chairmen: J.-K. WRANICZ, Lodz - POL – P. GUERRA, Montreal - CAN**

- How important is remote monitoring of CRT and heart failure? *S. MITTAL, New York - USA*
- Holter analyses in MADIT-CRT patients *W. ZAREBA, Rochester - USA*
- Best approach for CRT candidates with AF *J. STEINBERG, New York - USA*
- Non-invasive electroanatomic mapping: can electrocardiographic imaging improve candidate selection for CRT? *N. VARMA, Cleveland - USA*

15:30 – 16:00 ☕ BREAK - POSTER SESSION**16:00 CLINICAL CASES AND ECG/EGM INTERPRETATION IN CRT****Chairmen: M. CHUDZIK, Lodz - POL – G. LAURENT, Dijon - FRA***K. BIEGANOWSKA, Warsaw - POL**H. BURRI, Geneva - SUI**B. OLSHANSKY, Urbana-Champaign - USA**K. SZYDLO, Lodz - POL***17:00 ALIVECOR SYMPOSIUM - ECG IN THE CLOUD: HOW NEXT GENERATION OF ECG TECHNOLOGIES WILL IMPACT CLINICAL PRACTICE?****Chairmen: D. ALBERT, Oklahoma - USA – J.-P. COUDERC, Rochester - USA**

- Regulatory challenges associated with cloud-based and Internet-based ECG monitoring technologies *L. RICCI, Silver Spring - USA*
- Contactless detection of atrial fibrillation using a webcam *J.-P. COUDERC, Rochester - USA*
- Alivecor experience on cloud-based ECG devices: challenges and successes *D. ALBERT, Oklahoma - USA*

18:00 OPENING AND AWARD CEREMONY

- Welcoming
- Opening
- In memory of Shlomo Stern and Bruce Del Mar
- ISHNE Del Mar awards

*P. CHEVALIER, Lyon - FRA**R. PIOTROWICZ, Warsaw - POL**V. HOMBACH, Ulm - GER**H. KENNEDY, Saint Louis - USA**S. DUBNER, Buenos Aires - ARG**R. PIOTROWICZ, Warsaw - POL*

07:30 BOT MEETING (Washington Room)

09:00 ATRIAL FIBRILLATION: MANAGEMENT IN 2015

Chairmen: R. PIOTROWICZ, Warsaw - POL – J. STEINBERG, New York - USA

- Biology of the substrate of atrial fibrillation V. ALGALARRONDO, Paris - FRA
- The incidence and risk factors for new onset atrial fibrillation L. TERESHCHENKO, Portland - USA
- Silent atrial fibrillation: clarification and unanswered issues H. KENNEDY, Saint Louis - USA
- Personalized therapy of AF patients A.-J. CAMM, London - UK

10:30 – 11:00 ☕ BREAK

11:00 SUDDEN CARDIAC DEATH: TIME TRAVEL IN THERAPY AND DIAGNOSIS

Chairmen: P. CHEVALIER, Lyon - FRA – W. ZAREBA, Rochester - USA

- Sudden death and myocardial infarction F. PAGANELLI, Marseille - FRA
- Arrhythmogenic right ventricular cardiomyopathy / dysplasia G. FONTAINE, Paris - FRA
- Automatic implantable defibrillator E. ALIOT, Nancy - FRA

12:30 – 14:00 🎧 BREAK

13:00 STATE OF THE HEART ON LATE SODIUM CURRENT

Chairmen: S. RICHARD, Montpellier - FRA – W. ZAREBA, Rochester - USA

- The late sodium current A. ZAZA, Milan - ITA
- Preclinical arrhythmia studies with late sodium current blockers L. BELARDINELLI, Foster City - USA
- Late sodium current modulation and atrial fibrillation A.-J. CAMM, London - UK
- Late sodium current blockers for ventricular arrhythmias and QT prolongation W. ZAREBA, Rochester - USA

14:00 NON-INVASIVE RISK MARKERS OF SUDDEN CARDIAC DEATH

Chairmen: M. KURPESA, Lodz - POL – T. TANABE, Yokohama - JAP

- Current view of QT variability M. HAIGNEY, Bethesda - USA
- Fragmented QRS T. KLINGENHEBEN, Bonn - GER
- QT dynamicity F. EXTRAMIANA, Paris - FRA
- Heart rate turbulence I. CYGANKIEWICZ, Lodz - POL

15:30 – 16:00 ☕ BREAK - POSTER SESSION

16:00 ATRIAL FIBRILLATION: ANTICOAGULATION

Chairmen: S. DUBNER, Buenos Aires - ARG – P. STONE, Boston - USA

- Does AF matter? Using the CHADS₂ Vasc score as sole determination in prescribing anticoagulants in detected AF? A.-J. CAMM, London - UK
- Which anticoagulant for which patient? S. MITTAL, New York - USA
- Periprocedural risk of patients undergoing ablation for atrial fibrillation on warfarin vs NOACs J. STEINBERG, New York - USA

17:00 ATRIAL FIBRILLATION: ABLATION

Chairmen: F. SACHER, Bordeaux - FRA – J. STEINBERG, New York - USA

- Cryoablation of pulmonary veins: the simple answer? T. ARENTZ, Bad Krozingen - GER
- Pharmacological ablation of pulmonary veins I. FINDLAY, Tours - FRA
- Antiarrhythmic drugs are outmoded and catheter ablation should be the first-line option for all patients with paroxysmal atrial fibrillation P. GUERRA, Montreal - CAN

19:45 COCKTAIL DINNER

Chairmen: P. MAURY, Toulouse - FRA – R. PIOTROWICZ, Warsaw - POL

- Electroclinical presentation *D. DUPLIAKOV, Samara - RUS*
- Early repolarization pattern - an innocent finding?
- a marker of risk? *P. MACFARLANE, Glasgow - UK*
- Brugada Phenocopy: state-of-the-art of a new ECG phenomenon *F. SACHER, Bordeaux - FRA*
- Early repolarization is associated with ventricular tachyarrhythmias in patients with acute ST elevation myocardial infarction *A. BARANCHUK, Kingston - CAN*
M. JASTRZEBSKI, Cracow - POL

10:30 – 11:00 ☕ BREAK

Chairmen: A. BAYES DE LUNA, Barcelona - SPA – R. FRANK, Paris - FRA

- T. JASTRZEBSKI, Cracow - POL*
- C. KOUAKAM, Lille - FRA*
- M.-C. GONZALEZ, Woluwe-Saint-Lambert - BEL*

12:30 – 14:00 🎧 BREAK

Chairman: J. L. PASQUIE, Montpellier - FRA

- Management of patients in the early phase after acute MI with LV dysfunction *T. KLINGENHEBEN, Bonn - GER*
- Clinical use of the WCD: plugging the gaps *M.-M. CHUNG, Rochester - USA*
- The WCD: remote patient management *N. VARMA, Cleveland - USA*

Chairmen: M. HAIGNEY, Bethesda - USA – A. ROSSILLO, Mestre Venezia - ITA

- Pathogenesis of sudden cardiac death in young athletes *A. ROSSILLO, Mestre Venezia - ITA*
- Can the athlete heart be proarrhythmic? *D. CORRADO, Padova - ITA*
- Lessons from the French Registry on Sudden Death During Sports *E. MARIJON, Paris - FRA*

15:30 – 16:00 ☕ BREAK - POSTER SESSION

Chairmen: D. DUPLIAKOV, Samara - RUS – P. CHEVALIER, Lyon - FRA

- LQTS: evaluating first degree relatives *E. SCHULZE-BAHR, Münster - GER*
- QT dynamics in LQTS *J.-P. COUDERC, Rochester - USA*
- Gene-guided therapy *I. DENJOY, Paris - FRA*
- T wave morphology in diagnosis and risk stratification *W. ZAREBA, Rochester - USA*

Chairmen: I. CYGANKIEWICZ, Lodz - POL – B. MILOVANOVIC, Belgrade - SER

- Heart rate variability *J.-C. BARTHELEMY, Saint-Etienne - FRA*
- Autonomic nervous system and sudden death *J. SACHA, Opole - POL*
- Pharmacological modulation of autonomic nervous system activity in patients with syncope *B. MILOVANOVIC, Belgrade - SER*
- Non-pharmacological modulation of the autonomic nervous system *P. PTASZYNSKI, Lodz - POL*
- Effect of baroreceptor stimulation and renal denervation on cardiac arrhythmias *D. LINZ, Homburg - GER*

07:30 BOT MEETING (Washington Room)**09:00 ARRHYTHMOGENIC RIGHT VENTRICULAR CARDIOMYOPATHY/DYSPLASIA****Chairmen: G. FONTAINE, Paris - FRA – P. STONE, Boston - USA**

- ARVC/D diagnosis *R. HAUER, Utrecht - NLD*
- Epidemiology and genetics of ARVC/D *E. GANDJBAKHCH, Paris - FRA*
- Usefulness of electrocardiographic parameters for risk prediction in ARVC/D *F. DURU, Zurich - SWI*

10:30 – 11:00 ☕ BREAK

11:00 EXPANDING HORIZONS OF T-WAVE ALTERNANS**Chairmen: T. KLINGENHEBEN, Bonn - GER – R.-L. VERRIER, Boston - USA**

- Exercise-based TWA testing *T. KLINGENHEBEN, Bonn - GER*
- Ambulatory ECG-based TWA monitoring *T. IKEDA, Tokyo - JAP*
- TWA in REFINE ICD trial *D. EXNER, Calgary - CAN*
- TWA as a therapeutic target *R.-L. VERRIER, Boston - USA*

12:30 – 14:00 📺 BREAK

12:30 ISHNE ASSEMBLY**14:00 HYPERTROPHIC CARDIOMYOPATHY****Chairmen: L. DE ROY, Wavre - BEL – D. EXNER, Calgary - CAN**

- ICD and HCM *P. CHARRON, Paris - FRA*
- CMR and HCM: present and future *J. MOON, London - UK*
- Long-term outcomes after medical and invasive treatment in patients with hypertrophic cardiomyopathy *M. MICHELS, Rotterdam - NLD*
- Intra atrial block and atrial fibrillation in HCM patients *A. BARANCHUK, Kingston - CAN*

15:30 – 16:00 ☕ BREAK - POSTER SESSION

16:00 SLEEP APNEA AND RESPIRATORY PATTERN MONITORING**Chairmen: M. HAIGNEY, Bethesda - USA – B. OLSHANSKY, Urbana-Champaign - USA**

- Ultrastructural and morphological atrial alterations due to sleep apnea *A. BARANCHUK, Kingston - CAN*
- Autonomic nervous system disturbances *M.-T. LA ROVERE, Pavia - ITA*
- Respiratory pattern holter monitoring *D. MORTARA, Milwaukee - USA*

17:00 CARDIAC RESYNCHRONIZATION THERAPY AND ICD**Chairmen: S. DUBNER, Buenos Aires - ARG – V. MOGA, Timisoara - ROM**

- Multiparametric heart failure evaluation in ICD patients *V. RIBATTI, Rome - ITA*
- Surface ECG and follow up *H. BURRI, Geneva - SUI*
- CRT in children *J.-B. THAMBO, Bordeaux - FRA*
- Defibrillation testing: clinically important or obsolete? *D. EXNER, Calgary - CAN*

09:00 LBBB – FROM BENCH TO BEDSIDE

Chairmen: F. EXTRAMIANA, Paris - FRA – J.-K. WRANICZ, Lodz - POL

- Epidemiology and prognosis of LBBB *D. DUPLIAKOV, Samara - RUS*
- Tissue Doppler and 3D-echo in dyssynchrony assessment in LBBB *M. TRUKSHINA, Saint Petersburg - RUS*
- CRT outcomes: LBBB vs other BBB *J. K. WRANICZ, Lodz - POL*

10:30 – 11:00 ☕ BREAK

11:00 TELECARDIOLOGY: WHAT'S NEW?

Chairmen: R. PIOTROWICZ, Warsaw - POL – D.-C. SOBRAL FILHO, Recife - BRA

- Telemonitoring and HF patients *E. PIOTROWICZ, Warsaw - POL*
- Innovations in long term monitoring *S. LOBODZINSKI, Long Beach - USA*
- Telemedicine in patients with implanted devices *L. GUEDON-MOREAU, Lille - FRA*
- Decreased delivery of inappropriate shocks achieved by remote monitoring of ICD *S. DUBNER, Buenos Aires - ARG*

12:00 CARDIAC WORK IN THE YOUNG ELITE ATHLETES

Chairman: L. MAKAROV, Moscow - RUS

- Syncope in the young elite athletes: peculiarity, diagnosis, treatment and prognosis *L. MAKAROV, Moscow - RUS*
- ECG in the young elite athletes 10-18 years old *V. KOMOLIATOVA, Moscow - RUS*
- Dynamics of myocardial repolarization in young athletes during exercise *L. BALYKOVA, Moscow - RUS*
- Autonomic dysfunction in the young elite athletes with ST-T changes *N. FEDINA, Moscow - RUS*



LOGISTIC ORGANIZATION & REGISTRATION: OVERCOME
3/5 boulevard Paul-Emile Victor - 92523 Neuilly-sur-Seine Cedex
Ph: +33 (0)1 41 92 01 20 - ishne@overcome.fr