



## The VIII International Conference of Cardiovascular Genomic Medicine 16-18 September 2021

The next (8<sup>th</sup>) **Biennial International Cardiovascular genomics conference** is held on 16-18 September 2021. In view of ongoing Covid-19 related concerns and recent upsurge of new cases, the Conference is staged virtually via the zoom platform. The main theme of this conference is '*Diagnostic and Therapeutic Cardiovascular Genomics*'. The scientific programme, delivered by leading global experts in the field, includes the Second William Harvey Oration, plenary key note lectures, scientific oral and poster sessions.

*'The VIII International Conference of Cardiovascular Genomic Medicine' has been approved by the Federation of the Royal Colleges of Physicians of the United Kingdom for 17 category 1 (external) CPD credit(s)'*

### **International Scientific Committee**

Professor Dhavendra Kumar, WHRI/QMUL, London, UK (Chair)  
Prof. Perry Elliott, UCL/ Bart's, London, UK  
Prof. Patricia Munroe, WHRI/QMUL, London, UK  
Prof. Nilesh Samani, BHF, London, UK  
Prof. Ajay Bahl, PGI, Chandigarh, India  
Prof. Robert Hamilton, Sick Kids, Toronto, Canada  
Prof. Arthur Wilde, University of Amsterdam, The Netherlands  
Prof. Dan Arking, Johns Hopkins Medical School, Baltimore, USA

### **Programme**

**Theme: "DIAGNOSTIC AND THERAPEUTIC CARDIOVASCULAR GENOMICS"**

#### **Day 1 Thursday 16<sup>th</sup> September 2021**

**Registration 1200-1300 (BST/UK)**

#### **1215 Welcome/ Introduction**

*Professor Dhavendra Kumar, Chair Organising/ Scientific Committees*

#### **1230- 1330 Session I: Genomics in Cardiovascular Science**

Chair Professor Patricia Munroe, PhD, FMedSci

**Genetic architecture of inherited cardiac conditions- insights from recent genomic advances***Dr. James Ware, Cardiovascular Genomic Medicine, Imperial/ Brompton, London, UK***Inherited Cardiac Disorders: Beyond Mendelian Inheritance***Dr. Connie Bezzina, Academic Medical Centre, University Amsterdam, NL***Cardiovascular metabolomics***Professor Sandosh Padmanabhan, Department of Cardiovascular Science, University of Glasgow, Scotland.***1330-1430 Plenary 1**

Chair Professor Panos Deloukas, PhD, FMedSci

**'Mainstreaming genomic medicine across the NHS'***Professor Dame Sue Hill,***Chief Scientific Officer for England and Senior Responsible Officer for Genomics in NHS England and NHS Improvement****1430-1500 Comfort break****1500-1700 Session II: Genomics of cardiovascular development**

Chair (s) Professor Ruth Newbury-Ecob, Bristol

**Clinical genome sequencing in congenital cardiology***Professor Graham Stuart, Bristol, UK***'Insights into cardiac development gained from studying syndromes associated with congenital heart disease'***Professor Ruth Newbury-Ecob, Bristol, UK***1730-1830 Plenary 2 'Multi-disciplinary dimensions of genomic medicine'**

Chair (s) Dr. Sarju Mehta, Clinical Genetics, Addenbrookes, Cambridge, UK

**Genetic perspectives of inflammatory cardiomyopathy***Dr. Neha Sekhri, Inherited Cardiac Diseases Unit, Bart's NHS Foundation, London***Genotype-Histopathology correlations in cardiovascular genomic medicine***Dr. Pilichou Kalliopi, Padua, Italy***1830 Reflections of the Day & Close****Day 2 Friday 17<sup>th</sup> September 2021****1230- 1330 Session IV: Cardiac conduction and rhythm disorders**

Chair(s) Professor Sylvia Priori, Pavia, Italy

Professor Madhu Khullar, Emeritus Scientist, PGIMER, Chandigarh, India

**Deepening complexities of cardiac arrhythmias***Professor Arthur Wilde, Molecular Cardiology, Amsterdam UMC, NL***Channelopathies across India***Professor Nitish Naik, Cardiology Centre, AIIMS, New Delhi, India*

**1330-1430 Plenary 3: Genomic dimensions of cardiac electrophysiology**  
Chair (s) Dr. Alison Muir, Consultant Cardiologist, Queen's Medical Centre, Belfast

**Genomics of the cardiac conduction system**

*Dr. Bas J. Boukens, AMC University Amsterdam, NL*

**Autonomic cardiac electrophysiology**

*Professor Pier Lambiase, UCL/ Bart's, London, UK*

**1430-1500 Comfort break**

**1500-1700 Session V: Genomics of Cardiac musculature**

Chair Dr. Amanda Varnava, St George's London

**Expanding horizon of cardiomyopathy genomics**

*Professor Perry Elliott, UCL Cardiovascular Research Centre/ Bart's Inherited Heart Centre*

**Genomic profiling of cardiomyopathies in India**

*Professor Ajay Bahl, Cardiology, PGIMER, Chandigarh, UT, India.*

**Dilated cardiomyopathy associated with BAG3 mutation**

*Dr. Vanya Vaidya, Dept. Cardiology, PGIMER, Chandigarh, India*

**1700-1815 Plenary 4: New horizons in cardiovascular genomic medicine**

Chair: Dr. Yasmine Aquib, Molecular Scientist, Sir Magdi Yaquib Aswan Heart Hospital, Aswan, Egypt.

**Clinical use of RNAs in genomic medicine**

*Professor Diana Baralle, Clinical Genetics, Princess Anne Hospital, Southampton*

**Proteomics of Dystrophin Cardiomyopathy**

*Dr. Federica Montanaro, The Dubowitz Neuromuscular Centre, GOSH, UCL, London, UK*

**1815 Reflections of the Day & Close**

**Day 3 Saturday 18<sup>th</sup> September 2021**

**1230- 1330 Plenary 5: Therapeutic cardiovascular genomics**

Chair: Dr. Eleanor Wicks, Consultant Cardiologist, John Radcliffe Hospital, Oxford, UK

**Precision medicine in dilated cardiomyopathy**

*Professor Diane Fatkin, Victor Chang Cardiac Research Institute, NSW, Australia*

**Novel therapeutic developments in hypertrophic cardiomyopathy**

*Dr. Caroline Ho, Bingham Women Hospital, Harvard Medical School, Boston, USA*

**1330-1500 Session VII: Cardiovascular connective tissue genomics**

Chair: Prof. Pradeep Vasudevan, Consultant Clinical Genetics, Leicester, UK

**Genetics of spontaneous coronary artery dissection**

*Dr. Eleni Giannoulidou, Victor Chang Cardiac Research Institute, NSW, Australia*

**Cardiovascular phenotypes in osteogenesis imperfecta**

*Dr. Bala Subramanian, Sheffield Children's Hospital*

**Genotype driven aortic surgical interventions**

*Professor Nimesh Desai, University of Pennsylvania, Philadelphia, USA*

**1500            Comfort break**

**1515-1600    Plenary Session VIII**

*Chair: Dr. Neha Sekhri, Bart's Inherited Cardiac Diseases Centre*

**"Artificial intelligence in Genomics"**

*Professor Seema Mital, Sick Kids, Univ. Toronto, Canada*

**1600-1700            "The 2021 William Harvey Oration"**

*Chairs: Professor Dhavendra Kumar & Professor Arthur Wilde*

**"A journey towards Genomic Medicine"**

*Professor Dan M. Roden, M.D.*

Professor of Medicine, Pharmacology, and Biomedical Informatics

Senior Vice President for Personalized Medicine

Vanderbilt University Medical Center, Nashville, TN, USA

**1715    Reflections of the Conference, Vote of Thanks**

*Professor Sir Munir Pirmohamed, Liverpool, UK*

All enquiries to-

Chair Organising and Scientific Committees

Professor Dhavendra Kumar, Consultant Clinical Genetics/ Cardiovascular Genomics; Chair,

CEO/Med Director, Genomic Medicine Foundation UK.

[d.kumar@qmul.ac.uk](mailto:d.kumar@qmul.ac.uk) & [md@genomicmedicine.org](mailto:md@genomicmedicine.org)

Event Manager: Nick Miles, Neon Events Ltd. [nick@neon-events.co.uk](mailto:nick@neon-events.co.uk)