

# Heart-to-Heart: Cardiology in New Zealand

Presented by Auckland Medical Museum Trust  
& Brave Hearts: The New Zealand Cardiac Story



## When

Tuesday 28 November, 6 - 8pm

## Where

Room WG 308, AUT City Campus, 55 Wellesley St East

## Programme

**6.00pm** Doors open for registration, networking, fingerfood

**6.30pm** Opening and MC for the evening  
**Dr David Galler**

**6.35pm** Up and personal with Heart Disease  
**Professor Rob Doughty**

**6.45pm** Adventure and Innovation with Heart Disease  
**Professor John Ormiston**

*Questions from the audience*

**7.00pm** First world approaches to Rheumatic Fever  
and Rheumatic Heart Disease  
**Associate Professor Nigel Wilson**

**7.10pm** Seeing is believing - the Imaging Revolution  
**Dr Boris Lowe**

**7.20pm** Through the Looking Glass - the Double Helix  
**Associate Professor Malcolm Legget**

*Questions from the audience*

**7.30pm** Closing observations and notices  
**Associate Professor Warren Smith**

**8.00pm** Doors close

## Tickets

[www.eventbrite.co.nz/e/heart-to-heart-cardiology-in-new-zealand-tickets-38516442717](http://www.eventbrite.co.nz/e/heart-to-heart-cardiology-in-new-zealand-tickets-38516442717)



## **Prof Rob Doughty** Up and personal with Heart Disease

In 2015 Rob suffered an acute heart attack and will share his experience of this event in his context as a patient, health professional and researcher

## **Prof John Ormiston** Adventure and Innovation with Heart Disease

The field of interventional cardiology since the first unblocking of a coronary artery by balloon angioplasty carried out by Andreas Gruntzig in Zurich in 1977, has rapidly progressed. Metal stents, first introduced in the late 1980s overcame some of the limitations of balloon treatment but were still associated with a significant problem of re-narrowing due to excessive healing tissue. Drug eluting stents, introduced in 2001, by coating the stent with a medication limiting excessive healing have largely overcome the problem of re-narrowing.

Another major advance is transcatheter aortic valve implantation where the valve is transported from an artery in the groin and attached inside the diseased aortic valve. Done under local anaesthesia, it is much less invasive than open-heart surgery with fewer deaths and strokes.

The adventure and excitement continues with many more developments to come such as replacement of other valves.

## **Assoc Prof Nigel Wilson** First world approaches to Rheumatic Fever and Rheumatic Heart Disease

There are multiple facets to preventing and controlling acute rheumatic fever (ARF) and rheumatic heart disease (RHD): improved housing (primordial prevention), the treatment of group A streptococcal (GAS) throat infections and GAS vaccines (primary prevention), the prevention of recurrences of ARF (secondary prevention), enhanced case detection (echo screening for RHD) and appropriate timely management of established RHD (tertiary management). Endeavour in these domains will be discussed with a New Zealand perspective.

## **Dr Boris Lowe** Seeing is believing - the Imaging Revolution

The understanding of all heart diseases relies on detecting abnormalities of the heart's structure and function. Technological advances have now made very detailed pictures and movies of the heart possible. Sophisticated imaging methods have revolutionized our ability to detect and treat heart disease with success. This talk gives us an insight into how current imaging modalities inform us about various conditions that affect the ability of the heart to pump blood.

## **Assoc Prof Malcolm Legget** Genomics, Genetics and the Heart

We are now in the "genomic era" where the entire sequence of our DNA which is the genetic code for our cells and organs to function, can be unravelled for less than \$1000. While this information has identified heart diseases caused by changes in single genes, increasingly it provides insight into heart problems caused by changes in multiple genes such as coronary artery disease. Our understanding of genomics and genetics has led to new ways of more accurately predicting and diagnosing heart disease, and new treatments directed at the genetic abnormalities. Techniques for editing our genes might soon cure some heart conditions.



## Speakers' Biographies

### Dr David Galler, MC

MB ChB 1981 Otago; FFARCS 1987; FFARACS 1990; FANZCA 1992; FJFICM 200

Dr David Galler has worked for more than 20 years in the health sector both in the UK and in Auckland.

David is an Intensive Care Specialist by training and has worked as a Specialist at Middlemore Hospital since 1991. He has served as the National President of the Association of Salaried Medical Specialists and has previously been on secondment as Principal Medical Advisor to the Ministry of Health from Counties Manukau District Health Board on a half-time basis. His major interests at Ministry were in the fields of Quality Improvement, shared decision making in Governance, and in promoting a more inclusive and collaborative working style from the Ministry of Health.

### Prof Rob Doughty

MB BS, MD, FRCP (UK), FRACP, FCSANZ, FESC

Rob Doughty trained in medicine and cardiology in the UK and in Auckland (at Auckland and Green Lane Hospital). He is a cardiologist at the Auckland Heart Group, holds the Heart Foundation Chair in Heart Health at The University of Auckland and is a cardiologist at Auckland City Hospital where he is leader of the heart failure service. Rob is a general cardiologist, and has specialised interests in heart failure, echocardiography, and sports cardiology. He works actively with several different sports organisations regarding heart assessments for athletes across a range of sporting disciplines.

### Prof John Ormiston

MBChB (Otago), FRACP, FRACR, FCSANZ, FAPSIC, FRCP (London), FACC, ONZM

John Ormiston graduated from the University of Otago Medical School with distinction in Medicine and Surgery and trained in cardiology at Green Lane Hospital and in Los Angeles. He has been called the “father of interventional cardiology” in this country and introduced to New Zealand many new techniques and technologies.

He has been active in clinical research for more than 20 years and is internationally known for his bench testing of cardiological devices.

Since 2014, he has been a full professor of Medicine at the University of Auckland medical School of Medicine and in 2011 became an Officer of the New Zealand Order of Merit.

This year he received the Ethica Award, the highest honour of the European cardiovascular intervention academies. “The award recognised his outstanding contribution to investigating innovations in interventional cardiology, including pioneering studies with bioresorbable scaffolds and transcatheter aortic valve implantation and his work studying the architecture of stents using micro-computed tomography”.

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## Assoc Prof Nigel Wilson

MB ChB 1978 Otago; DCH Lond; MRCP; FCSANZ

Paediatric Cardiologist, Green Lane Paediatric and Congenital Cardiology Dept, Starship Hospital, Auckland, University of Auckland, New Zealand.

Nigel has been a Consultant Paediatric Cardiologist (Children's heart specialist) from 1990 with subspecialty interventional cardiac catheterization: closing holes in the heart and opening tight valves and blood vessels with catheter techniques.

His research focus has been in acute rheumatic fever (ARF) and rheumatic heart disease (RHD). He is the co-chair of the RF and RHD guidelines in New Zealand and involved with RHD control in the Pacific Islands, especially Fiji and Samoa.

## Dr Boris Lowe

BHB, MBChB, FRACP

Boris Lowe is a specialist cardiologist at the Green Lane Cardiovascular Service (Auckland City Hospital), Auckland Heart Group and the Centre for Advanced MRI (University of Auckland).

Before his faculty appointment to Auckland City Hospital in 2007, he was the Chief Fellow in Advanced Cardiovascular Imaging at Cleveland Clinic (Ohio, USA) where he achieved the highest level of certification in the areas of echocardiography, CT and MRI.

A researcher and educator, Dr. Lowe has authored numerous original research publications, and is a reviewer for a number of international cardiovascular imaging journals. He has been the Director of Physician Education (Royal Australasian College of Physicians) at Auckland City Hospital since 2010.

## Associate Professor Malcolm Legget

MBChB MD (Otago) FRACP FACC FCSANZ

Malcolm Legget trained in cardiology at Green Lane Hospital and at the University of Washington, Seattle. He is a consultant cardiologist at the Auckland Heart Group and Auckland City Hospital and Associate Professor of Medicine at the University of Auckland. Malcolm has been part of the team that has established CT coronary angiography and percutaneous aortic valve implantation through the Auckland Heart Group and Mercy Angiography. He completed the degree of Doctor of Medicine in 2008 in three-dimensional echocardiography. His special interests include cardiac imaging and more recently cardiovascular genomics.

## Assoc Prof Warren Smith

MBChB (Otago), FRACP

Warren Smith trained in cardiology at Green Lane Hospital and electrophysiology at Duke University. He established and led the Green Lane Electrophysiology Service from 1984 until 2003. From 1997-2002 he was Clinical Director of the Green Lane Adult Cardiac Service. He is currently a cardiologist and electrophysiologist at Auckland Heart Group and Auckland City Hospital and deputy chairman of the Cardiac Inherited Diseases Group.