School of Anatomy, Physiology & Human Biology

The Head of School, Professor Shane Maloney, invites you to attend the

2015 ANATOMY, PHYSIOLOGY & HUMAN BIOLOGY
SEMinar SERIES

Professor Danny Green
NHMRC Principal Research Fellow
School of Sports Science, Exercise and Health
The University of Western Australia

*Early detection of cardiovascular disease in humans: Implications for individualised prevention*

Tuesday 25 August 2015 at 1.00pm

Room 1.81, Anatomy, Physiology & Human Biology Building North
The University of Western Australia (off Hackett Entrance No. 2)

**The Seminar:** This seminar links William Harvey's proofs with contemporary imaging techniques and new non-invasive technologies for *in vivo* assessment of macro and microvascular function and health in humans. New methods will be presented that hold the promise of directly visualising human arteries and arterioles, for the purpose of functional and structural analysis. Early detection of nascent atherosclerosis is children and adolescents is a theme, alongside studies that have ameliorated arterial dysfunction and disease in type 2 diabetic children and adults, as well as patients with coronary disease and end-stage heart failure awaiting transplantation. The concept of early disease detection is presented alongside evidence that new approaches can identify non-responders to cardiovascular interventions, so that personalised and optimised interventions can be formulated.

**The Speaker:** Danny Green is a human integrative biologist whose research focuses on the prevention of cardiovascular disease. His specific expertise relates to novel imaging approaches to the assessment of micro- and macro-vascular diseases, including surrogate measures of early and occult disease. He is a cardiovascular exercise physiologist who assesses the impact of exercise, exercise training and physical activity in the context of prevention. This includes the best combinations of exercise, pharmacological and other preventative measures to minimise future development of atherosclerosis in young people at risk and re-occurrence of cardiovascular disease in older individuals. His research encompasses the lifespan; from exercise training in the prevention of the development of atherosclerosis in obese children and adolescents, to research on the best combination of exercise and medications in the management of patients with hypercholesterolemia, diabetes, coronary disease and heart failure patients awaiting transplantation. He has published >250 refereed articles in Cardiology and Physiology journals including The Lancet, Circulation, Journal of the American College of Cardiology, Journal of Clinical Investigation, Journal of Physiology, American Journal of Physiology and the Journal Applied Physiology.

**PARKING:**
Coin operated visitor parking is available between Hackett Entrances 1 and 2. City of Subiaco controlled riverside parking is also available.

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