

27th Northern Cardiovascular Research Group
Congress

UNIVERSITY OF LEEDS

Committee Organiser: Dr. Hannah M. Kirton



Tuesday 30th April 2019

The Great Hall and Parkinson Court

University of Leeds

Woodhouse Lane, LS2 9JT



UNIVERSITY OF LEEDS

27th Annual Northern Cardiovascular Research Group Congress

Tuesday 30th April 2019

Welcome to the 27th Annual Northern Cardiovascular Research Group Meeting, which is being held at the University of Leeds. We hope you find the day both beneficial and stimulating.

The Northern Cardiovascular Research Group meeting has never failed to provide a stimulating arena for high caliber scientific content, informative and enjoyable discussions, collaborative opportunities and a relaxed atmosphere within a cardiovascular research community. This annual event has brought together those with an interest in the cardiovascular system since 1991 at the University of Leeds, but has moved a long way from its initial roots in the North of England, and now includes researchers from Bristol, Northern Ireland and Scotland.

The NCRG has also proudly recognised and supported students, early career researchers, and more senior researchers, to present their work to a friendly environment, providing a stimulating arena for discussion; and welcomed a New&Notable platform at the Leeds 2016 meeting.

This year we also highlight the cardiovascular research journey of Professor Clive Orchard (formally a University of Leeds research member) with celebratory and honorary research recognition throughout the day.

Dr Hannah M. Kirton

Cardiovascular and Neuroscience Postdoctorate Researcher

Sponsors

We are very grateful and honored to receive generous support and funding from the British Heart Foundation, University of Leeds, University of Bristol and Badrilla to allow us to hold honorary 2019 research meeting. We are also honoured to receive support from the following:

Orchardfest Mini Symposium Sponsor

We are grateful for the generous support provided by Badrilla, for today's plenary lecture.

Cairn Research New and Notable Sponsor

We are grateful for the generous sponsorship from Cairn Research for the New and Notable platform sessions.

Exhibitor Sponsors

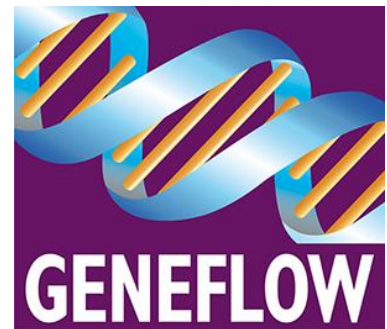
We are grateful for the generous sponsors, from: ADInstruments, Sarstedt, WPI, StarLab, GeneFlow, WPI, Cairn Research, Badrilla.....

We highly encourage you to take some time to visit the exhibitors during your visit at Leeds.

The NCRG 2019 congress is kindly sponsored by:



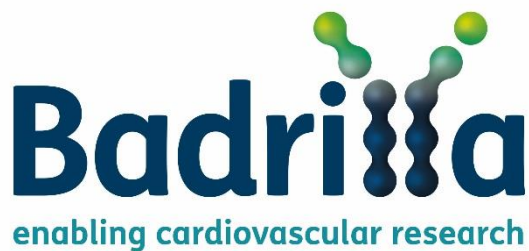
BLACKWELL'S
FOR LEARNING · FOR LIFE



**British Heart
Foundation**



UNIVERSITY OF LEEDS



Meeting Programme



2019

Parkinson Building and

The Great Hall

09:30 - 10:20 **Registration and Congress Meal deposit @ Parkinson Court front entrance**
Exhibitors/Posters
Fresh Tea/Coffee with Mini Continental Breakfast Buffet

10:20 - 10:30 **Welcome Hannah Kirton (Leeds Organising Committee)**

Session 1: morning 10.30 – 12:00

Chairs: NAME (University of) and NAME (University of)

10:30 – 11:00 **Cairn Research Sponsored New & Notable**
Title

11:00 – 11:15 **Oral Communication**
Title

11:15 – 11:30 **Oral Communication**
Title

11:30 – 11:45 **Oral Communication**
Title

11:45 – 12:00 **Oral Communication**
Title

12:00 – 13:00 **Buffet lunch with time for informal posters and exhibitor stands**

'Prof. Clive Orchard Mini Symposium'

Badrilla and the University of Leeds welcome and celebrate the research career of our Prof. Clive Orchard, from the University of Bristol.



Academic Career and Research

Areas

Prof. Orchard's research focuses on cardiac excitation-contraction coupling and its regulation. Using a variety of techniques his research has investigated how the rise of intracellular Ca^{2+} that causes contraction is initiated, and how it is regulated by intracellular 2nd messenger pathways. Of particular interest is the role of the t-tubules in this process. He recently developed a technique that enables the physical and functional uncoupling of the t-tubules from the surface membrane, enabling us to investigate their function.

Prof. Orchard has taught and collaborated with a number of international and European researchers during his journey in the **"Regulation of cardiac-contraction coupling"**, which has enabled his research to continue in its journey to uncover yet more new and exciting findings. Prof. Orchard's enthusiasm and inspiration in his field can be reflected through his collaborators, some of whom are here today to share their research in this 'Mini Symposium' kindly sponsored by Badrilla.

Recent Publications

- Kong, C, Rog-Zielinska, E, Kohl, P, Orchard, C & Cannell, M, 2018, 'Solute movement in the t-tubule system of rabbit and mouse cardiomyocytes'. *Proceedings of the National Academy of Sciences of the United States of America*.
- Bryant, SM, Kong, CH, Watson, JJ, Gadeberg, HC, James, AF, Cannell, MB & Orchard, CH, 2018, 'Caveolin-3 dependent loss of t-tubular I_{Ca} during hypertrophy and heart failure in mice'. *Experimental Physiology*, vol 103., pp. 652-665
- Cannell, M, Orchard, C, Kong, C & Watson, J, 2018, 'Caveolin-3 KO Disrupts T-Tubule Structure and Decreases T-Tubular I_{Ca} Density in Mouse Ventricular Myocytes'. *AJP - Heart and Circulatory Physiology*.
- Kong, CH, Bryant, SM, Watson, JJ, Gadeberg, HC, Roth, DM, Patel, HH, Cannell, MB, Orchard, CH & James, AF, 2018, 'The Effects of Aging on the Regulation of T-Tubular I_{Ca} by Caveolin in Mouse Ventricular Myocytes'. *Journals of Gerontology, Series A*, vol 73., pp. 711-71

Session 3: 13:00 – 16:00



Badrilla Sponsored Session
'Prof. Clive Orchard Mini Symposium'

Chair: Prof. John Colyer (University of Leeds, CEO and Founder of Badrilla)

13:00 – 13:10 **Introduction to Professor Clive Orchard**

13:10 – 14:10 **Plenary Communication by Ed Lakatta**

Title

14:10 – 14:30 **Honorary Communication by David Eisner (University of Manchester)**

Title

14:30 – 15:00 **Coffee break with informal poster session and exhibitor stands**

15:00 – 15:20 **Honorary Communication by Mark Boyett (University of Manchester)**

Debunking myths concerning the vagus: from 1987 to now

15:20 – 15:40 **Honorary Communication by Fabien Brette (University of**

Title

15:40 – 16:00 **Honorary Communication by Andy James (University of Bristol)**

Title

Session 3: 16:00 – 17:00

Formal Poster Session and exhibitions

(with Bespoke wine and Black Sheep beer reception)

Session 4 – Late afternoon 17:00 – 18:00

Chairs: NAME (University of) and NAME (University of)

17:00 – 17:15 Oral Communication

Title

17:15 – 17:30 Oral Communication

Title

17:30 – 17:45 Oral Communication

Title

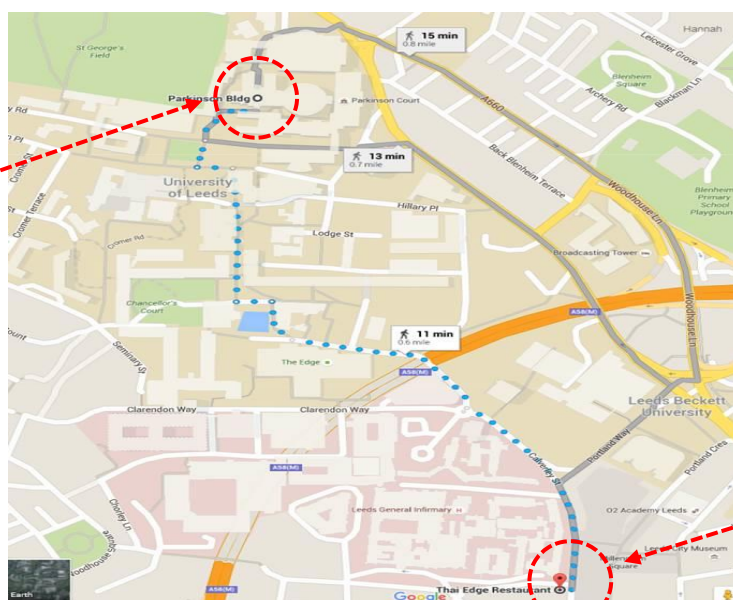
17:45 – 18:00 Oral Communication

Title

18:00 – 18:15 Closing remarks, prizes and announcements

**18.30 – 20:30 Conference Three Course Buffet Meal at Thai Edge
(with complimentary Jasmine tea or Filtered Coffee on departure)
Directions: New Portland Place, 7 Calverley Street, LS1 3DB**

You Are Here



**Thai Edge Restaurant
(LS1 3DA)**