PI profile

## Barbara Casadei

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| Prof Barbara Casadei FMedSci FRCP  | **Professor Barbara Casadei****Titles**: British Heart Foundation Professor of Cardiovascular Medicine, Honorary Consultant Cardiologist and Group Leader / PI**Location**: West Wing, John Radcliffe Hospital**Department**: Cardiovascular Medicine**Group**: Myocardial Redox Biology**Webpage**: <https://www.rdm.ox.ac.uk/people/barbara-casadei>**Email**: barbara.casadei@cardiov.ox.ac.uk**PA**: Eunice Berry <eunice.berry@cardiov.ox.ac.uk> |

### GMS themes:

* From genes to clinic (target discovery, structural biology, medicinal chemistry)
* Application of genomics in the clinic (diagnostics and therapeutics)

### Research Overview

My group’s research programme spans from basic aspects of myocardial nitroso-redox signalling to patient-based investigations and clinical trials with a focus on atrial fibrillation and heart failure. Examples of the scope and range of our ongoing work (in press) include the investigation of myocardial mechanisms promoting the maintenance of atrial fibrillation in humans (Reilly et al. *Science Transl Med*) and the impact of perioperative statin therapy on the new onset of atrial fibrillation after cardiac surgery and other postoperative complications (Zheng et al. *New Engl Med J*). My team and I have been awarded national and international prizes (e.g., *The Joan Mott Prize Lecture* of the Physiological Society*,* the *William Harvey Lecture* and Silver Medal of the ESC, the *Thomas Lewis Lecture* and Silver Medal of the British Cardiovascular Society*, The Carmeliet-Coraboeuf-Weidmann Lecture* of the European Heart Rhythm Association*,* the *Melvin A. Marcus Young Investigator Award* of the American Heart Association, the *Young Research Worker Prize* of the British Cardiovascular Society (4 times) and the *Lord Leonard and Lady Estelle Wolfson Prize* of the Academy of Medical Sciences. Our research is funded by a Programme Grant of the British Heart Foundation, EU grants from the FP7 and Horizon 2020 programme, and a Fondation Leducq Transatlantic Network of Excellence. In addition to my research and clinical role in Oxford, I hold a leadership position in the European Society of Cardiology (representing 90,000 cardiologists and cardiovascular scientists across Europe) where I have initiated and chaired the Society’s Research Strategy Plan, the Agenda for Women and the Research Regulators round table.

Project areas: Integrative physiology; cardiac biology and disease; signaling; electrophysiology; clinical trials; atrial fibrillation; diabetic cardiomyopathy; myocardial ischaemia and remodeling; nitric oxide and reactive oxygen species.

### Specific project proposals:

Please contact directly for further information.

*These pages were reviewed/updated:* ***10/06/2022***

Project proposal

# **Title**: **[Project title here]**

Supervisors: [name and title of relevant individuals]

Wet/dry lab mix (approx): X% wet lab, X% dry lab

### Description:

[Write a ~ half-page page description of the project here].

### Training Opportunities:

[Write a brief description of the training opportunities the project will provide].

### Background reading / references:

Please include references as desired. Suggested format:

* [Surname] [Firstname], [other authors]… **(year in bold)** . [Title]. [Journal name], [other details]. Available at: [link]

Insert any additional project description(s) on subsequent pages if applicable. Please use the same template and use separate pages for each project.