

# Biomedical Discussion Group

## Lecture: "Exercise Training in Adverse Cardiac Remodeling"

Thursday April 2, 2015

2:30-3:30 pm

Davis Centre (DC), Room 1304

[Dirk J. Duncker](#), PhD

Professor of Experimental Cardiology at Erasmus University, Netherlands



### Abstract:

Cardiac remodeling in response to a myocardial infarction or chronic pressure-overload is an independent risk factor for the development of heart failure. In contrast, cardiac remodeling produced by regular physical exercise is associated with a decreased risk for heart failure. There is evidence that exercise training has a beneficial effect on disease progression and survival in patients with cardiac remodeling and dysfunction, but concern has also been expressed that exercise training may aggravate pathological remodeling and dysfunction. In my talk I will present the results of studies from our laboratory investigating the effects of exercise training on pathological cardiac remodeling and dysfunction in mice, and the mechanisms underlying the divergent effects of physical exercise training in different pathologies.

### Biosketch:

Dirk J. Duncker obtained his PhD and MD degrees, respectively, in 1988 and 1989 at the Erasmus University Rotterdam. He worked as a post-doctorate research fellow at the University of Minnesota from 1991-1994, after which he returned to the Department of Cardiology (Thoraxcenter) of the Erasmus University Medical Center in Rotterdam. In 1995 he received a 5 year Research Fellowship Stipend from the Royal Netherlands Academy of Arts & Sciences, and in 2000 he became Established Investigator of the Netherlands Heart Foundation. He was appointed Professor of Experimental Cardiology in 2003. His research interests include the regulation of coronary blood flow and microvascular tone in health and disease, pathophysiology of cardiac hypertrophy and heart failure, and the cardiovascular effects of physical exercise.

If you are interested in meeting with Dr. Duncker, please email [Bernie Duncker](#).

Event is FREE and coffee/cookies will be available

Pay parking available in lots B or N ([map](#))

Visit: [cbb.uwaterloo.ca](http://cbb.uwaterloo.ca) for more information



UNIVERSITY OF WATERLOO  
FACULTY OF ENGINEERING



UNIVERSITY OF WATERLOO  
FACULTY OF SCIENCE