



# Introductory course to cardiovascular research and medicine

15-19 OCTOBER 2018



**NORHEART**  
THE NORWEGIAN PHD SCHOOL OF HEART RESEARCH

## MONDAY 15. OCTOBER

Role of predisposing factors in relation to ischemic heart disease and heart failure: diabetes, hypertension, metabolism, gender.

09.00-09.15	Welcome, short introduction to NORHEART
09.15-09.45	<b>The global burden of ischemic heart disease, national and international risk factors</b> Serena Tonstad (UiO, OUS)
09.45-09.50	<i>"Student-buzz-group" -questions</i>
09.50-10.20	<b>Metabolic syndrome and ischemic heart disease</b> Ingebjørg Seljeflot (UiO)
10.20-10.25	<i>"Student-buzz-group" -preparing questions</i>
10.25-10.45	<b>Discussion: Risk factors in heart disease, future perspectives</b> Ingebjørg Seljeflot (UiO).
10.45-11.00	<b>Break</b>
11.00-12.00	<b>Group work/student presentations</b>
12.00-13.00	<b>Lunch</b>
13.00-13.30	<b>Hypertension and heart disease</b> Sverre Erik Kjeldsen (UiO)
13.30-13.35	<i>"Student-buzz-group" -preparing questions</i>
13.35-14.05	<b>Gender and heart disease</b> Eva Gerds (UiB)
14.05-14.10	<i>"Student-buzz-group" -preparing questions</i>
14.10-14.40	<b>Genetics in heart disease</b> Øyvind Haugen Lie (OUS)
14.40-14.55	<b>Discussion: Sverre Erik Kjeldsen (UiO), Øyvind Haugen (OUS) and Eva Gerds (UiB)</b>
14.55-15.10	<b>Break</b>
15.10-16.10	<i>Student presentations (10 min each with 5 min discussion)</i>
16.10-	<b>Get-together, pizza</b>

## TUESDAY 16. OCTOBER

Acute myocardial ischemia

08.30-09.00	<b>Acute myocardial ischemia: a clinical perspective</b> Erik Øie (Diakonhjemmet sykehus, UiO)
09.00-09.05	<i>"Student-buzz-group" -preparing questions</i>
09.05-09.35	<b>Acute myocardial ischemia: a basic science perspective</b> Jarle Vaage (UiO)
09.35-09.40	<i>"Student-buzz-group" -preparing questions</i>
09.40-10.00	<b>Discussion: translational heart research</b> Jarle Vaage (UiO) and Erik Øie (UiO)
10.00-10.20	<b>Break</b>
10.20-10.50	<b>An updated view on the process of atherosclerosis, plaque rupture and thrombosis</b> Bente Halvorsen (UiO, OUS)
10.50-10.55	<i>"Student-buzz-group" -preparing questions</i>

10.55-11.25	<b>Preventing atherosclerosis</b> Kjetil Retterstøl (UiO)
11.25-11.30	<i>"Student-buzz-group" -preparing questions</i>
11.30-12.00	<b>Discussion: Diet, atherosclerosis and heart disease</b> Bente Halvorsen (UiO, OUS) and Kjetil Retterstøl (UiO)
12.00-13.00	<b>Lunch</b>
13.00-14.00	<b>Hot-spot: Sean Davidson;</b> Principle Research Fellow, the Hatter Cardiovascular Institute, University College London <b>Studies to protect the heart from ischaemia and reperfusion injury - From bench to bedside and back again</b>
14.00-14.15	<b>Break</b>
14.15-14.45	<b>Cardiac arrhythmias: from basic science to bedside treatment</b> Ravinea Monotheepan (OUS)
14.45-14.50	<i>"Student-buzz-group" -questions</i>
14.50-15.20	<b>Ventricular fibrillation and cardiac arrest</b> Kjetil Sunde (OUS, UiO)
15.20-15.30	<i>"Student-buzz-group" -questions</i>
15.30-16.00	<i>Student presentations (10 min each with 5 min discussion)</i>
<b>WEDNESDAY 17. OCTOBER</b>	
Heart failure	
08.30-09.10	<b>The process of cardiac remodeling and transition to heart failure</b> Geir Christensen (UiO)
09.10-09.15	<i>"Student-buzz-group" -preparing questions</i>
09.15-09.55	<b>Heart failure: epidemiology, etiology, clinical symptoms and current treatment</b> Lars Gullestad (UiO, OUS)
09.55-10.00	<i>"Student-buzz-group" -preparing questions</i>
10.00-10.30	<b>Discussion: Heart failure, what is tomorrow's treatment?</b> Geir Christensen (UiO) and Lars Gullestad (UiO)
10.30-10.45	<b>Break</b>
10.45-11.15	<b>Biomarkers in heart disease</b> Torbjørn Omland (OUS, UiO)
11.15-11.20	<i>"Student-buzz-group" -preparing questions</i>
11.20-11.50	<b>Biomarkers and innovation</b> Dag Christiansen (CEO, CardiNor)
11.50-12.00	<b>Discussion: Science and innovation</b>
12.00-13.00	<b>Lunch</b>
13.00-14.30	<i>Group work/student presentations</i>
14.30-14.45	<b>Break</b>
14.45-15.15	<b>Managing a career combining research and clinical work</b> Søren Pischke (OUS)
15.15-15.45	<b>How I ended up with a faculty position</b> Bill Louch (UiO, OUS)

## THURSDAY 18. OCTOBER

Experimental models

15.45-16.00	<b>Discussion: What should we do as young scientists?</b>
08.30-09.45	<i>Student presentations (10 min each with 5 min discussion)</i>
09.45-10.00	<b>Break</b>
10.00-10.45	<b>Stem cells, from basic biology to bedside treatment</b> Jan Brinchmann (UiO)
10.45-11.00	<b>Discussion: "Translating basic stem cell research into human therapy"</b>
11.00-11.15	<b>Break</b>
11.15-12.00	<i>Student presentations (10 min each with 5 min discussion)</i>
12.00-13.00	<b>Lunch</b>
13.00-13.30	<b>From rat cardiomyocyte contractility to a home-based exercise program for heart failure patients</b> Øyvind Ellingsen (NTNU, CERG)
13.30-13.45	<b>Discussion: Drugs or exercise?</b> Øyvind Ellingsen (NTNU, CERG)
13.45-14.00	<b>Break</b>
14.00-14.30	<b>Large animal models of cardiovascular disease</b> Søren Erik Pischke (OUS)
14.30-14.35	<i>"Student-buzz-group" -preparing questions</i>
14.35-15.05	<b>In-vivo rodent models of human cardiovascular disease</b> Jan Magnus Aronsen (UiO)
15.05-15.10	<i>"Student-buzz-group" -preparing questions</i>
15.10-15.30	<b>Discussion: Are rodents small furry humans?</b> Søren Erik Pischke (OUS) and Jan Magnus Aronsen (UiO)
15.30-16.00	<i>Group work/student presentations</i>

## FRIDAY 19. OCTOBER

Heart research in Norway:  
some existing networks

08.30-08.45	<b>Presentation of Center for Heart Failure Research</b> Geir Christensen (UiO)
08.45-09.00	<b>Presentation of NORHEART</b> Geir Christensen (UiO)
09.00-10.15	<i>Student presentations (10 min each with 5 min discussion)</i>
10.15-10.30	<b>Break</b>
10.30-12.00	<i>Student presentations (10 min each with 5 min discussion)</i>
12.00-13.00	<b>Lunch</b>
13.00-13.15	<i>Course evaluation and information about the exam</i>
13.15-15.15	<i>Exam</i>