



# Introductory course to cardiovascular research and medicine

16-20 OCTOBER 2017



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

## MONDAY 16. OCTOBER

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

09.00-09.15	Welcome
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>
12.00-13.15	<b>Lunch</b>
13.15-13.45	<b>Hypertension and heart disease</b> Sverre Erik Kjeldsen (UiO)
13.45-13.50	<i>"Student-buzz-group" -preparing questions</i>
13.50-14.20	<b>Gender and heart disease</b> Eva Gerds (UiB)
14.20-14.25	<i>"Student-buzz-group" -preparing questions</i>
14.25-14.55	<b>Genetics in heart disease</b> Mathis Korseberg Stokke (OUS)
14.55-15.15	<b>Discussion: Sverre Erik Kjeldsen (UiO), Mathis Korseberg Stokke (OUS) and Eva Gerds (UiB)</b>
15.15-15.25	<b>Break</b>
15.25-16.10	<i>Student presentations (10 min each with 5 min discussion)</i>
16.10-	<b>Get-together, pizza</b>

## TUESDAY 17. OCTOBER

Acute myocardial ischemia

08.30-09.00	<b>Acute myocardial ischemia: a clinical perspective</b> Erik Øie (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> Kirsti Ytrehus (UiT)
09.35-09.40	<i>"Student-buzz-group" -preparing questions</i>
09.40-10.00	<b>Discussion: translational heart research</b> Kirsti Ytrehus (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)
10.50-10.55	<i>"Student-buzz-group" -preparing questions</i>

## WEDNESDAY 18. OCTOBER

### Heart failure

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) and Kjetil Retterstøl (UiO)
12.00-13.00	<b>Lunch</b>
13.00-14.00	<i>Group work/student presentations</i>
14.00-14.45	<b>Cardiac arrhythmias: from basic science to bedside treatment</b> Mathis Korseberg Stokke (OuS)
14.45-14.50	<i>"Student-buzz-group" -questions</i>
14.50-15.20	<b>Ventricular fibrillation and cardiac arrest</b> Kjetil Sunde (UiO)
15.20-15.25	<i>"Student-buzz-group" -questions</i>
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)
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 (UiO)
11.15-11.20	<i>"Student-buzz-group" -preparing questions</i>
11.20-11.50	<b>Biomarkers in translational heart research and innovation</b> Anett Hellebø Ottesen (UiO)
11.50-12.00	<b>Discussion: Science and innovation</b>
12.00-12.30	<b>Inflammation and cardiac remodeling</b> Arne Yndestad (UiO)
12.30-13.30	<b>Lunch</b>
13.30-14.30	<b>Hot spot: Professor Dr. Med. Christoph Maack</b> Saarland University Hamburg, Germany Role of the mitochondria in heart failure
14.30-14.45	<b>Break</b>
14.45-15.15	<b>A career in science</b> William Louch (OuS)
15.15-15.45	<b>Going abroad, experience from Harvard</b> Ida Gjervold Lunde (UiO)
15.45-16.00	<b>Discussion: What should we do as young scientists?</b>

## THURSDAY 19. OCTOBER

Experimental models

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>Large animal models of cardiovascular disease</b> Søren Erik Pischke (OuS)
13.30–13.35	<i>“Student-buzz-group” –preparing questions</i>
13.35–14.05	<b>In-vivo models of human cardiovascular disease</b> Jan Magnus Aronsen (UiO)
14.05–14.10	<i>“Student-buzz-group” –preparing questions</i>
14.10–14.30	<b>Discussion: Are rodents small furry humans?</b> Søren Erik Pischke (OuS) and Jan Magnus Aronsen (UiO)
14.30–14.45	<b>Break</b>
14.45–15.15	<b>From rat cardiomyocyte contractility to a home-based exercise program for heart failure patients</b> Øyvind Ellingsen (NTNU, CERG)
15.15–16.00	<i>Group work/student presentations</i>

## FRIDAY 20. 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>