







The 22nd Integrative Human Cardiovascular Control Course

Date: May 19-23, 2025

Venue: Danske Studenters Roklub & Copenhagen University Hospitals

Monday

Venue: Danske Studenters Roklub (DSR) - Strandvænget 55, 2100 Copenhagen, 1st floor

Session I		on I	Grand opening Moderator: Damian Bailey	
08:15	-	08:25	Welcome and introduction to the program	
08:25	-	08:35	Meet and greet	
08:35	-	09:20	Cardiovascular Conundrum - Introduction to the course Associate Professor, James A. Pawelczyk, Penn State University, USA	
09:20	-	10:05	My 25-year path of studying burn survivors: an introduction to hypothesis-driven research Professor Craig Crandall, UT Southwestern Medical Center, USA	
10:05	-	10:15	Coffee Break	
10:15	-	11:00	Heart function in animals - the adaptive nature of physiology in animal and man Professor Tobias Wang, Aarhus University, DK	
11:00	-	11:45	ECG and Purkinje fibers in mammals Associate Professor Kirstine Callø, University of Copenhagen, DK	
11:45	-	12:30	Embedding research in clinical practice Professor Anders Perner, Copenhagen University Hospitals - Rigshospitalet, DK	
12:30	-	13:30	Lunch	
Session II		on II	Student Presentations	
13:30	-	15:30	Student presentations: Format TBD	
15:30	-	16:15	Introduction to a pig model for assessing the risk of atrial fibrillation in an obstructive sleep apnea PhD fellow Julie Norup Hertel, University of Copenhagen, DK	

Tuesday

Venue:	Dansl	ke Studenters Roklub (DSR) - Strandvænget 55, 2100 Copenhagen, 1 st floor
Sessi	on III	Exploring cardiovascular regulation and adaptation – In Motion, In Balance, In Sight Symposium moderated by Jakob Solgaard Jensen
08:25 -	08:35	Welcome - Intro to the day
08:35 -	09:05	Blood pressure regulation in adolescents born after assisted reproductive technologies PhD Student Jakob Solgaard Jensen, Copenhagen University Hospitals - Rigshospitalet, DK
09:05 -	09:50	Translational research primer. Understanding hypertension through animal and human investigation Professor Scott Smith, UT Southwestern Medical Center, USA
09:50 -	10:35	Sympathetic activity and methods to assess sympathetic nerve activity Professor Paul Fadel, University of Texas at Arlington, USA
10:35 -	10:55	Coffee Break
10:55 -	11:40	The exercise pressor reflex - interaction between cardiac output and muscle metabolism and blood flow Associate Professor James Fisher, The University of Auckland, NZ
11:40 -	12:25	Impact of age, sex-hormones, and physical activity on vascular function. Professor YIva Hellsten, University of Copenhagen, DK
12:25 -	13:25	Lunch
Session IV		
13:25 -	14:10	Evaluation of cardiac adaptations to endurance training. Associate Professor, Katarina Steding-Ehrenborg, Lund University, SE
14:10 -	15:00	MRI evaluation of cardiac function and myocardial perfusion. Consultant Per Lav Madsen, Copenhagen University Hospitals - Herlev and Gentofte, DK
15:00 -	18:00	Networking and reception

Wednesday

Evening

Free time

Venue: Frederiksberg Campus, Room: Gris, Dyrlægevej 68, Frederiksberg C & August Krogh Institute, Room: Ultralyd, Universitetsparken 13, København

Session V	Demonstrat	ions in groups
08:15 - 11:00	Group I - Frederiksberg Campus Demonstration. Animal model	Group II - August Krogh Institute Demonstration. Ultrasound assessment in human
11:30 - 12:30	Lunch	
Session VI	·	I - Central blood flow er Lav Madsen
12:30 - 12:40	Welcome (back!) - setting the frame	
12:40 - 13:25	Role of mitochondrial respiration on lactate release in exper Postdoc. Hannah Caldwell, University of Copenhagen, DK	imentally-induced sepsis
13:25 - 14:10	ТВА	
14:10 - 14:30	Break	
14:30 - 15:15	The Forgotten Circulation - Lymphatics in health and diseas Postdoc. Benjamin Kelly, Aarhus University, DK	e
15:15 - 16:00	ТВА	

Thursday

Venue: Frederiksberg Campus, Room: Gris, Dyrlægevej 68, Frederiksberg C & August Krogh Institute, Room: Ultralyd, Universitetsparken 13, København

Session VII	Demonstrations in groups		
08:15 - 11:00	Group I - August Krogh Institute Demonstration. Ultrasound assessment in human	Group II - Frederiksberg Campus Demonstration. Animal model	
11:30 - 12:30	Lunch		
Session VIII	•	– Peripheral blood flow James Fisher	
12:30 - 12:40	Welcome (back!) - setting the frame		
12:40 - 13:25	Cerebral and leg blood flow during exercise - influence of de Professor José González-Alonso, Brunel University of London,		
13:25 - 14:10	Endothelia function and coagulation in health and disease Professor Jakob Stensballe, University of Copenhagen, DK		
14:10 - 14:30	Break		
14:30 - 15:15	Quantification of dynamic cerebral autoregulation: Welcom Professor Patrice Brassard, Université Laval, CA	e to the jungle!	
15:15 - 16:00	Why the brain needs oxygen and gravity; a (free) radical pe Professor Damien Bailey, University of South Wales, UK	rspective.	
16:00 - 16:30	Experimental Physiology's Young Investigator Prize		
18:00 - 21:30	Celebratory dinner at restaurant Flakfortet By boat from Nyhavn (Address TBA)		

Friday

Session IX	Special issues and summing up Moderator: Mads Fischer	
09:00 - 09:15	Welcome - setting the stage	
09:15 - 10:00	Determination of cardiac output at rest and during exercise Professor Johannes Van Lieshout, Amsterdam UMC, NL (TBC)	
10:00 - 10:45	Preparing the circulation for surgery Professor Nicolai Bang Foss, Copenhagen University Hospitals - Hvidovre, DK	
10:45 - 11:10	Coffee break	
11:10 - 11:55	The cardiovascular conundrum of orthostatic intolerance following spaceflight Associate Professor James Fisher, The University of Auckland, NZ	
11:55 - 13:00	Lunch	
13:00 - 13:45	From academia to pharma: My epic journey of transformation and how pharma's regulatory fire ignites scientific brilliance. Assiciate Director Peter Bonde Ernst-Rasmussen, Genmab, DK	
13:45 - 14:30	What to look for in, as well as being, an excellent mentor: two sides of the same coin Professor Craig Crandall, UT Southwestern Medical Center, USA	
14:30 - 15:15	Evaluation: Integrative cardiovascular aspects, questions, and discussion of topics from the week	