



Danish Cardiovascular Research Academy



PhD-course: Vascular Biology and Atherothrombosis

University of Aarhus, 6-10 September 2004

Aim and Content: This course will provide an overview of experimental and practical aspects of vascular biology, with the main purpose to advance the understanding of the pathogenesis, prevention, treatment and clinical manifestations of atherosclerosis and its thrombotic complications. The following topics will be covered: pathoanatomy, pathophysiology, pathogenesis, vascular growth and development, vascular progenitor cells (stem cells), animal models, imaging, and treatments for atherosclerosis and thrombosis. The course is planned to include as much student-faculty interaction as possible. The complete course program is available at: www.dacra.dk

Participants: PhD-students and others interested in the experimental and clinical aspects of vascular biology and atherothrombosis.

Language: English.

Format: 5-day course based on lectures in the morning followed by group exercises, discussions and presentations by the participants in the afternoon. The group exercises will be based on articles selected by each lecturer. All articles, together with questions for each article, will be sent to all participants prior to the course. As far as possible, all teachers will be present for the whole of the course, providing maximum possibility for interaction.

Teachers: Alan Daugherty (Lexington), Ludovic Drouet (Paris), Ole Faergeman (Aarhus), Erling Falk (Aarhus), Steen E. Husted (Aarhus), Jørgen Jespersen (Esbjerg), Moustapha Kassem (Odense), Won Y. Kim (Aarhus), Steen D. Kristensen (Aarhus), Michael J. Mulvany (Aarhus), Lars Bo Nielsen (Copenhagen), Gerard Pasterkamp (Utrecht), Stephen M. Schwartz (Seattle), Henrik Sillesen (Hellerup), Keld E. Sørensen (Aarhus), Qingbo Xu (London).

Course directors: Erling Falk, Aarhus University Hospital (erling.falk@ki.au.dk)
Michael Mulvany, Dept. Pharmacology, Univ. Aarhus (mm@farm.au.dk)

Course Secretary: Inger Marie Bro, Department of Pharmacology, University of Aarhus,
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Location: Victor Albeck Building, Faculty of Health Sciences, University of Aarhus,
Vennelyst Boulevard 4, 8000 Aarhus C.

Course Fee: DKK 7,000. Free for PhD-students, registered Research Students and Supervisors in DaCRA.

Registration: To the course secretary as well as to the Faculty (tahvg@adm.ku.dk)
before 1 June 2004.

Program:

Monday Sep 6: Vascular growth *chair: Steve Schwartz*

8.30-8.45	Welcome and introductions of students and teachers	
8.45-9.45	Vascular growth mechanisms	<i>Michael Mulvany</i>
9.45-10.00	Coffee/Tea	
10.00-11.00	Atherothrombosis	<i>Erling Falk</i>
11.00-12.00	Does diabetes accelerate atherosclerosis, plaque rupture and/or arterial thrombosis?	<i>Steve Schwartz</i>
12.15-13.15	Lunch	
13.30-15.00	Group exercises	
15.00-15.15	Coffee/Tea	
15.30-17.00	Plenary session	
19.00-	Social arrangement	

Tuesday Sep 7: Inflammation and immunology *chair: Gerard Pasterkamp*

8.30-9.30	Leukocytes in vascular biology	<i>Gerard Pasterkamp</i>
9.45-10.45	The endothelium	<i>Keld Sørensen</i>
10.45-11.00	Coffee/Tea	
11.00-12.00	Adoptive transfer and tracking of lymphocytes	<i>Lars Bo Nielsen</i>
12.15-13.15	Lunch	
13.30-15.00	Group exercises	
15.00-15.15	Coffee/Tea	
15.30-17.00	Plenary session	

Wednesday Sep 8: Stem cells***chair: Moustapha Kassem***

8.30-9.30	Stem cells: overview	<i>Moustapha Kassem</i>
9.45-10.45	Vascular development	Steve Schwartz
10.45-11.00	Coffee/Tea	
11.00-12.00	Circulating progenitor cells, vasculogenesis, restenosis and atherosclerosis	<i>Qingbo Xu</i>
12.15-13.15	Lunch	
13.30-14.30	Animal models in vascular biology	<i>Alan Daugherty</i>
14.30-15.00	Tools in vascular biology I	<i>phd-students</i>
15.15-15.30	Coffee/Tea	
15.30-17.00	Tools in vascular biology II	<i>phd-students</i>

Thursday Sep 9: Thrombosis***chair: Ludovic Drouet***

8.30-9.30	Can we experimentally assess the thrombotic components of atherothrombosis?	<i>Ludovic Drouet</i>
9.45-10.45	Atherothrombosis: platelets and clinical events	<i>Steen Dalby Kristensen</i> <i>Steen Elkjær Husted</i>
10.45-11.00	Coffee/Tea	
11.00-12.00	Coagulation and fibrinolysis	<i>Jørgen Jespersen</i>
12.15-13.15	Lunch	
13.30-15.00	Group exercises	
15.15-15.30	Coffee/Tea	
15.30-17.00	Plenary session	
19.00-	Dinner downtown	

Friday Sep10: Clinical aspects chair: Steen Elkjær Husted, Steen Dalby Kristensen

8.30-9.30	Atherothrombosis: interventional and drug treatment	<i>Steen Elkjær Husted</i> <i>Steen Dalby Kristensen</i>
9.45-10.45	Carotid stenosis and stroke	<i>Henrik Sillesen</i>
10.45-11.00	Coffee/Tea	
11.00-12.00	Imaging of atherothrombosis	<i>Won Yong Kim</i>
12.15-13.15	Lunch	
13.30-14.30	Coronary artery disease: genes, drugs and the agricultural connection	<i>Ole Færgeman</i>
14.30-15.00	Final discussion, evaluation, concluding remarks	

Faculty:

Alan Daugherty, professor, PhD, DSc
Medicine and Physiology, University of Kentucky, Lexington, USA

Ludovic Drouet, professor, MD, PhD
Angio-Hematology Department, Hopital Lariboisière, Paris, France

Ole Faergeman, professor, MD, DMSc
Dept. Cardiology, Aarhus University Hospital (Århus Sygehus)

Erling Falk, professor, MD, DMSc
Inst. Clinical Research, Aarhus University Hospital (Skejby), Aarhus

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Dept. for Thrombosis Research, University of Southern Denmark, Esbjerg

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Dept. Clinical Biochemistry, Rigshospitalet, University of Copenhagen

Gerard Pasterkamp, assoc. professor, MD, PhD
Lab. Exp. Cardiology, Utrecht University Hospital, The Netherlands

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Dept. Pathology, University of Washington, Seattle, USA

Henrik Sillesen, assoc. professor, MD, DMSc
Dept. Vascular Surgery, Gentofte Hospital, University of Copenhagen

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