Fibrinogen Workshop 2024

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16.00 - 18.30	Arrival and	registration
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18.30 Reception at restaurant Plates

	Monday June 3
08.00 - 08.45	Breakfast at the venue
08.45 - 09.00	Welcome and introduction Else Bladbjerg
	Session 1: Biomechanics
	Chairpersons: Else Bladbjerg and Rebecca Risman
09.00 - 09.30	State of the art Rustem Litvinov: Mechanobiology and Pathophysiology of Blood Clot Contraction
09.30 - 09.50	O-1 - Christine Helms: Variability in Fibrin Fiber Mechanics
09.50 - 10.10	O-2 - Antoine Eyram Kwame: Influence of Metal Ions on Fibrinogen Nanofiber Assembly
10.10 - 10.30	Coffee and talk
10.30 - 10.50	O-3 - Martin Guthold: The Mechanical Properties of Electrospun Human Fibrinogen Nanofibers
10.50 - 11.10	O-4 - Adam Hansen: Understanding the Influence of Surfaces on Initiating Fibrin Fiber Formation in the Absence of Thrombin
11.10 - 11.30	O-5 - Volodymyr Chernyshenko: Alternative Role of B:b Knob-hole Interactions in the Fibrin Assembly
11.30 - 11.50	O-6 - Ranjini Ramanujam: Rupture Mechanics of Blood Clots: Influence of Fibrin Structure on the Rupture Resistance
11.50 - 13.00	Lunch and walk



Session 2: Clinical I

Chairpersons: Vakur Bor and Ziyuan Niu

13.00 - 13.30	State of the art Anetta Undas: Fibrin Clot Properties in Cardiovascular Disease: from Basic Mechanisms to Clinical Practice
13.30 - 13.50	O-7 - Dorothea Brüggemann: Cell Interaction and Stability of Self-assembled Fibrinogen Nanofiber Scaffolds
13.50 - 14.10	O-8 - Safae Oukrich: Early Fibrin Network Development in Staphylococcus Aureus Fibrin Biofilms
14.10 - 14.25	Poster pitches P1 (Rita Marchi), P2 (Dóra Ilona Bomberák), P3 (Linda Lóczi), P4 (Vakur Bor)
14.25 - 14.50	Coffee and talk
14.50 - 15.10	O-9 - Matt Flick: Nonpolymerizable Fibrinogen as an Antithrombotic
15.10 - 15.30	O-10 - Martin Guthold: Low Density Lipoprotein (LDL) Alters Fibrin Fiber Mechanical Properties
15.30 - 15.50	O-11 - Miriam Rafailovich: Initiation of Thrombosis following Viral Infection: Mechanism and Prevention
15.50 - 16.00	Introduction to evening event Else Bladbjerg
18.15	Bus departure from the hotel
19.00	Dinner at restaurant Sjelborg Strand

Tuesday June 4

08.00 - 08.45 Breakfast at the venue

Session 3: Clot Structure

	Chairpersons: Moniek de Maat and Christine Helms
09.00 - 09.30	State of the art Kirby Lattwein - Fibrinogen in Biofilms
09.30 - 09.50	O-12 - Valeri Barsegov: In Silico Modeling of Effects of Platelet Counts on Kinetics of Fibrin Clot Contraction
09.50 - 10.10	O-13 - Leonie Konopka: Carboxy-terminal Amino Acids in the Fibrinogen AαE Chain are essential for Fibrinogen-420 Secretion
10.10 - 10.50	Coffee and poster viewing



10.50 - 11.10	O-14 - Nathan Hudson: Chorographic Mapping of Human Fibrinogen Structures in Solution
11.10 - 11.30	O-15 - Daria Korolova - Catalog of Monoclonal Antibodies for the Study of Fibrin(ogen) Structure and Functions
11.30 - 11.50	O-16 - Daniel Gil Fraga: Prime Editing the Zebrafish Genome to Study Fibrinogen in Vivo
11.50 - 13.00	Lunch and walk
	Session 4: Factor XIII
	Chairpersons: Nathan Hudson and Verena Schroeder
13.00 - 13.30	State of the art Jim Luyendijk: Interaction Transglutaminases (FXIII and TG2) and Fibrinogen
13.30 - 13.50	O-17 - Kirk Hansen: The Fibrinogen and Fibrin Crosslinking Profiles of Coagulation Factor XIIIa and Tissue Transglutaminase
13.50 - 14.10	O-18 - Jim Luyendyk: Coagulation Factor XIII and Tissue Transglutaminase Cooperatively Mediate Atypical Fibrin(ogen) Cross-linking in the Acetaminophen-injured Liver
14.10 - 14.30	Coffee and talk
14.30 - 14.50	O-19 - Verena Schroeder: Role of Tissue Transglutaminase 2 in Fibrin Formation and Haemostasis
14.50 - 15.10	O-20 - László Muszbek: Cellular FXIII in Macrophage Derived Foam Cells of the Atherosclerotic Plaque
15.10 - 15.30	O-21 - Zsuzsa Bagoly: Inactivation of Factor XIII
15.30 - 15.50	O-22 - Ranjini Ramanujam: Understanding Blood Clot Stability: The Role of FactorXIII-mediated Fibrin Crosslinking in Rupture Resistance
15.50 - 16.00	Introduction to the hospital tour Else Bladbjerg
17.00	Tour and dinner at Esbjerg Hospital



Wednesday June 5

08.00 - 08.45 Breakfast at the venue

Session 5: Fibrinogen variants

Chairpersons: Martin Guthold and Nicoline Daugaard

09.00 - 09.30	State of the art Jaap Koopman: Production of Recombinant Fibrinogen Variants
09.30 - 09.50	O-23 - Alexander Couzens: Beyond Monogenic Inheritance: Investigating
	Oligogenic Traits in Congenital Fibrinogen Disorders
09.50 - 10.10	O-24 - Leonid Medved: Identification of Amino Acid Residues Critical for the
	Interaction of Fibrin with its Novel Receptor N-cadherin
10.10 - 10.30	Coffee and talk
10.30 - 11.00	State of the art Richard Fish: Zebrafish and Fibrinogen Research
11.00 - 11.20	O-25 - Nadja Bødker Pedersen: The Association of Metabolic Dysfunction-
	associated Steatotic Liver Disease with Fibrinogen Splice Variants in
	Patients with Severe Obesity: Effects of Weight-loss Surgery
11.20 - 11.30	O-26 - Nicoline Daugaard: A new Enzyme-linked Immunosorbent Assay to
	Quantify Glycosylated Fibrinogen in Plasma
11.30 - 11.50	O-27 - Vakur Bor: Congenital Hypofibrinogenemia due to Large Heterozygous
	Deletion including FGA, FGB and FGG Diagnosed in a Patient with
	Recurrent Venous Thrombosis
11.50 12.00	
11.50 - 13.00	Lunch and walk
	Session 6: Fibrinolysis
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Chairpersons: Marlien Pieters and Ranjini Ramanujam

13.00 - 13.30	State of the art Valerie Tutwiler: Clot Structure and Fibrinolysis
13.30 - 13.50	O-28 - Brittany Bannish: Plasmin Degradation of Fibrin Increases Lysis Rates by
	speeding up tPA Movement through the Clot
13.50 - 14.10	O-29 - Rebecca Risman: Distinctive Structural and Biochemical Modulation of
	Internal and External Fibrinolysis
14.10 - 14.30	Coffee and talk



Session 7: Clinical II

Chairpersons: Anna-Marie Bloch-Munster and Anetta Undas

14.30 - 14.50	Established investigator award To be announced
14.50 - 15.10	O-30 - Ziyuan Niu: In silico Studies of Fibrinogen-PLA Interactions and
	Implications for Thrombosis
15.10 - 15.30	O-31 - Andrew Gosselin: Improved Techniques to Measure Blood Clot Structure
	and Stability as Indicators of Poor Outcome
15.30 - 15.50	O-32 - Hande Eyisoylu: In vitro Flow Models for Arterial Thrombosis,
	Advantages and Shortcomings: a Systematic Review
15.50 - 16.00	Introduction to social event Nicoline Daugaard
16.15 - 17.30	
10.13 - 17.30	A walk in the park
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19.00	A walk in the park Congress dinner at Restaurant Plates

Thursday June 6

08.00 - 08.45 Breakfast at the venue

Session 8: Clot structure

Chairpersons: Matt Flick and Alexander Couzens

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09.00 - 09.30 09.30 - 09.50	State of the art Szusza Bagoly: Plasma Fibrin Clots in Patients with Deficiencies O-33 - Marlien Pieters: Results of a Proposed Standardized Method for Analysis of Fibrin Clots by Scanning Electron Microscopy
09.50 - 10.10	O-34 - Hande Eyisoylu: Flow Affects the Structural and Mechanical Properties of the Fibrin Network in Plasma Clots
10.10 - 10.30	Coffee and talk
10.30 - 10.50	O-35 - Martin Guthold: Relationship between Fibrin Clot Structure and Fibrinogen and Thrombin Concentrations
10.50 - 11.10	O-36 - Nathan Hudson: What is the Diameter of a Fibrin Fiber?
11.10 - 11.30	O-37 - Yaseelan Palarasah: Immonoassay Specific for Complement Activation Split-product C3dg in Complex with Fibrinogen.
11.30 - 11.50	Closing remarks Moniek de Maat
11.50 - 13.00	Lunch and goodbye

