

Final Program

The 13th International Meeting on the Biology, Chemistry, and Therapeutic Applications of Nitric Oxide

August 21st to 23rd, 2024.

Karolinska Institutet, Stockholm.

Wednesday, August 21, 2024	
8:00	Registration and Coffee
8:45-9:00	Opening Remarks Mattias Carlström Eddie Weitzberg Jon Lundberg (Karolinska Institutet)
9:00-10:00	Honorary Lecture: Introduction and History Chair: Adrian Hobbs (Queen Mary University of London) Louis J Ignarro (UCLA) – Nitric oxide – the Miracle Molecule for Health and Longevity
10:00-12:15	NOS function and Signaling Chairs: Dennis Stuehr (Cleveland Clinic) Jon Fukuto (Sonoma State University)
10:00-10:15	Dennis Stuehr - Introduction to the field
10:15-10:45	Yoichi Osawa (University of Michigan) New Perspectives on nNOS Regulation by Chaperones
10:45-11:15	Coffee break
11:15-11:45	Arnab Ghosh (Cleveland Clinic) Mobilization of heme to immature sGC by NO
11:45-12:15	Arlin Blood (Loma Linda University) NO Ferroheme signaling in the vasculature
12:15-13:30	Lunch and Poster viewing
13:30-15:45	Nitrosation and Nitration Chairs: David Wink (NIH) Takaaki Akaike (Tohoku University)
13:30-13:45	David Wink – Introduction to the field
13:45-14:15	Jonathan Stamler (Case Western Reserve University) Enzymatic S-nitrosylation in control of protein function
14:15-14:45	Stuart Lipton (Scripps Research) Aberrant S-nitrosylation in neurological disease
14:45-15:15	Francisco Schopfer (University of Pittsburgh) Nitrated fatty acid products generated in tissues
15:15-15:45	Annie Beuve (Rutgers University) Transnitrosation reactions by SNO-sGC
15:45-16:15	Coffee break
16:15-17:30	Hot Abstracts Chairs: Neil Hogg (Medical College of Wisconsin) and Daniel Kim-Shapiro (Wake Forest University)
16:15-17:30	Selected abstracts 1-10
19:00	Speakers Dinner

Thursday, August 22, 2024	
8:00	Coffee
8:30-10:15	Vascular biology and Cardiac function Chairs: Ingrid Fleming (University of Frankfurt) Chris Kevil (Louisiana State University)
8:30-8:45	Ingrid Fleming - Introduction to the field
8:45-09:15	Adam Straub (University of Pittsburgh) CYB5R3 in cardiomyocyte redox biology
9:15-09:45	Chris Kevil (Louisiana State University) CSE phosphorylation and sulfane sulfur: Role in vascular function and disease
9:45-10:15	Junhao Hu (Shanghai Institute of Organic Chemistry) Activation of NO-sGC mitigates acute lung injury
10:15-10:45	Coffee break
10:45-12:30	Red Blood Cells and NO Signaling Chairs: Mark Gladwin (University of Maryland School of Medicine) Andrew Gow (Rutgers University)
10:45-11:00	Mark Gladwin - Introduction to the field
11:00-11:30	John Pernow (Karolinska Institutet) sGC signaling by the red blood cell
11:30-12:00	Miriam Cortese-Krott (Heinrich Heine University Düsseldorf) New insights into RBC eNOS signaling
12:00-12:30	Anthony DeMartino (University of Maryland School of Medicine) NO-ferroheme in RBC signaling
12:30-13:30	Lunch and Poster viewing
13:30-14:45	Emerging Topics Chairs: Rakesh Patel (University of Alabama at Birmingham) Douglas Thomas (University of Illinois Chicago)
13:30-13:45	Allan Doctor (University of Maryland) Role of RBC eNOS in regulating Oxygen Delivery Homeostasis During Physiologic Stress
13:45-14:00	Ping Shen (Charité) TLR2 signaling, chondrocyte dysfunction and NOS activity
14:00-14:15	Douglas Thomas (University of Illinois Chicago) "NO Trespassing" how nitric oxide hijacks non-heme iron proteins to control the epigenome
14:15-14:30	Mattias Carlström (Karolinska Institutet) Bacteria-dependent DNIC formation and cardiometabolic effects
14:30-14:45	Hozumi Motohashi (Tohoku University) Supersulfides in hypoxia
14:45-15:30	Special Lecture Timothy Billiar (University of Pittsburgh) The path towards targeting NO in cancer Chairs: Hozumi Motohashi (Tohoku University) and Motohiro Nishida (Kyushu University)
15:30-17:00	Poster Session
19:00 - late	Conference Banquet

Friday, August 23, 2024	
8:00	Coffee
8:30-10:15	NO and Metabolism Chairs: Sruti Shiva (University of Pittsburgh) Serpil Erzurum (Cleveland Clinic)
8:30-8:45	Sruti Shiva - Introduction to the field
8:45-09:15	Martin Feelisch (University of Southampton) NO/RNS in Redox Health and Redox Diseases
9:15-09:45	Jing Fan (Morgridge Institute for Research) RNS and mitochondrial metabolism
9:45-10:15	Alexander Gourine (University College London) Regulation of Cerebral Blood Flow by Astrocyte-derived NO
10:15-10:45	Coffee break
10.45-12:30	Clinical Implications of NO Research Chairs: Eddie Weitzberg (Karolinska Institutet) Jason Allen (University of Virginia)
10.45-11:00	Eddie Weitzberg - Introduction to the field
11:00-11:30	Lorenzo Berra (Harvard University) iNO gas therapy in cardiac surgery
11:30-12:00	Amrita Ahluwalia (Queen Mary University of London) Inorganic Nitrate in Cardio-Renal Protection
12:00-12:30	Krishnaraj Rathod (Queen Mary University of London) Effects of nitrate in patients with stable angina: Nitrate-OCT study
12:30-12:45	Concluding remarks