

Program

Thursday November 21

08.30 - 10.00 **Registration. Coffee from 09.30.**

10.00 - 10.15 **Welcome Address**
Ruth Palmer, Maria Falkenberg and Ronnie Berntsson

10.15 - 16.00 **Biochemistry**

Chairs: Clotilde Wiel and Ronnie Berntsson

10.15 - 10.30	Hedfalk	Kristina	Protein production in yeast - Exemplified by AQPs
10.35 - 10.50	Ott	Martin	Mitochondrial protein biogenesis and turnover
10.55 - 11.10	Selmer	Maria	Structural mechanism of FusB-mediated rescue from fusidic acid inhibition of protein synthesis
11.15 - 11.30	Knecht	Wolfgang	Proteins and Infrastructures

11.30 - 11.45 **Short break**

Chairs: Lars-Anders Carlsson and Elin Esbjörner Winters

11.45 - 12.00	Stradner	Anna	Concentrated Protein Solutions and Mixtures
12.05 - 12.20	Sanyal	Suparna	Life in cold - Mechanisms of Protein Synthesis in Arctic Marine Bacteria
12.25 - 12.40	Drew	David	The mechanism of ATP import into the ER
12.45 - 13.00	Dahlin	Anders	Nanopores with polymer brushes for long-term non-invasive trapping of proteins

13.00 - 14.00 **Lunch**

Chairs: Julia Morud Lekholm and Bengt Hallberg

14.00 - 14.15	Carlson	Lars-Anders	What can cryo-electron tomography teach us about virus replication?
14.20 - 14.35	Sarshad	Aishe	RNA interference in health and disease
14.40 - 14.55	Camunas-Soler	Joan	Patch-seq profiling of pancreatic islet cell types and cell-free RNA diagnostics
15.00 - 15.15	Berntsson	Ronnie	Towards a structure and Function of Type 4 Secretion Systems
15.20 - 15.35	Stenmark	Pål	The Botulinum neurotoxins -the most potent toxins of all

15.40 - 16.00 **Coffee break**

16.00 - 18.45 **Biophysics I**

Chairs: Eleonore von Castelmur and Åsa Strand

16.00 - 16.15	Katona	Gergely	The role of amino acid functional group composition in protein-protein interactions
16.20 - 16.35	Kaila	Ville	Molecular mechanisms underlying the biological energy currents of life
16.40 - 16.55	Wenkel	Stephan	Role of microProteins in plant development
17.00 - 17.15	Björklund	Stefan	Growth regulated co-occupancy of Mediator and Lsm3 at intronic ribosomal protein genes

17.20 - 17.30 **Short break**

Chair: Lars-Anders Carlsson and Jerker Widengren

17.30 - 17.45	Doktorova	Milka	From physics to biology and beyond: Understanding the functional organization of cell plasma membranes
17.50 - 18.05	Sabouri	Nasim	Unwinding the functions of Quadruplex DNA Structures
18.10 - 18.25	Johansson	Magnus	Single-molecule tracking for kinetics measurements of protein synthesis, folding, and targeting inside living cells
18.30 - 18.45	Alenius	Mattias	A non-golgi transport pathway of odorant receptors regulate the response to odors

18.45 - 19.30

Group Photo, followed by free time

19.30

Symposium Dinner, followed by mingle and free time

Friday November 22

07.00 - 09.00

Breakfast

08.15 – 08.45

Coordinating efforts through The Swedish National Committee and SFBBM
– *information, discussion and further planning*

Swedish participation in IUBMB, IUPAC, EBSA and FEBS
– *information, discussion and further planning*

08.45 - 10.15

Biophysics II

Chairs: Milka Doktorova and Ana Teixeira

08.45 - 09.00	Wilhelmsson	Marcus	Metabolic and other fluorescence labeling of RNA
09.05 - 09.20	Widengren	Jerker	Fluorescence-based fluctuation, single-molecule and super-resolution methods for cellular and molecular studies
09.25 – 09.40	Aili	Daniel	Design of Protease Responsive Membrane Active Peptides
09.45 - 10.00	Parmryd	Ingela	The Importance of Ordered Plasma Membrane Nanodomains in Signal Transduction and Drug Repurposing
10.05 – 10.20	Bäckström	Malin	Three years with the national infrastructure protein production Sweden - achievements and further developments

10.20 - 10.40

Coffee break

10.40 - 11.30 Molecular Biology I

Chairs: Volkan Sayin and Suparna Sanyal

10.40 - 10.55	Arnqvist	Anna	Molecular insights into fine-tuning the expression of <i>H. pylori</i> SabA adhesin and its adhesion to inflamed gastric mucosa
11.00 - 11.15	Esbjörner	Elin	Amyloid formation and interactions with cells
11.20 - 11.35	Johansson	Erik	How Pol epsilon, the eukaryotic leading strand DNA polymerase, selects and incorporates nucleotides
11.40 - 11.55	Phan	Nhu	Multiple correlative nanoscale imaging of molecular turnover in nerve cells
12.00 - 12.15	Kele-Olovsson	Julianna	CNS Vasculature, Neuroinflammation and Beyond
12.20 - 12.35	Eriksson	Maria	The Populus clock affects plant adaptation, regulation of gene expression and the metabolome in roots in response to ionic and osmotic stressors

12.35 - 13.30

Lunch

13.30 - 16.10

Chairs: Aishe Sarshad and Claes Gustafsson

13.30 - 13.45	Larsson-Lekholm	Erik	Shining light on the cancer genome
13.50 - 14.05	Sunnerhagen	Maria	The oncoprotein MYC - dynamic interactions in transcriptional regulation
14.10 - 14.25	Sayin	Volkan	Aging promotes lung cancer metastasis through epigenetic ATF4 induction
14.30 - 14.45	Rudd	Sean	Antimetabolite cancer therapies - uncovering new biology associated with old drugs

14.50 - 15.05

Coffee break

Chairs: Sean Rudd and Ruth Palmer

15.05 - 15.20	Wiel	Clotilde	Unraveling the Metabolic Nexus: Age, Lung Cancer, and Metastatic Progression
15.25 - 15.40	Dimberg	Anna	Customizing blood vessels to promote anti-tumor immunity in glioblastoma
15.45 - 16.00	Deindl	Sebastian	Illuminating the regulation of gene expression at the single-molecule level

16.00 - 16.10

Concluding discussion and remarks

Ruth Palmer and Ronnie Berntsson