PROGRAMME

Day 1 Sunday, Sept 29th

From	Until		
18:30	18:45	Welcome address Kvido Strisovsky & Jan Konvalinka	
18:45	19:45	**Opening keynote lecture**	**Discussion leader (DL): Kvido Strisovsky**
		Matthew Freeman	Rhomboids and proteolysis at membrane interfaces
19:45	22:30	**Welcome dinner**	

Day 2 Monday, Sept 30th

		1. Proteases in protein quality control and homeostasis	**DL: Jan Konvalinka, Klaudia Brix**
9:00	9:30	**Michael Groll**	Structural impacts of proteasome mutants in autoinflammatory syndromes
9:30	9:45	Galia Blum	Cathepsin regulates metabolism and inflammation in cardiovascular disease conditions.
9:45	10:15	**Charles Craik**	CHIP links protein homeostasis and caspase signaling by binding latent C-termini.
10:15	10:30	Klara Grantz Saskova	The yeast proteases Ddi1 and Wss1 are both involved in the DNA replication stress response.
10:30	11:00	Coffee break	
		2. Proteases in immunity and cell death	**DL: Guy Salvesen, Boris Turk**
11:00	11:30	**Bob Lazarus**	An allosteric anti-tryptase antibody for the treatment of mast cell-mediated severe asthma
11:30	12:00	**Chris Overall**	How to increase protease activity in disease: A pharmacological molecular corrector for mutant MALT1 in immunodeficiency
12:00	12:15	Tangsheng Yi	KLK5 in airway inflammation and epithelial barrier dysregulation
12:15	12:30	Hans Brandstetter	Structures of the two-chain state of plant legumains relate to its physiological functions.
12:30	12:45	Mohammed Lamkanfi	Modulation of Nlrp3 inflammasome activation
12:45	14:00	Lunch	
		3. Technological platforms and tools	**DL: Steven Verhelst, Manu Platt**
14:00	14:30	**Yifat Merbl**	Proteasome footprinting: MAPPing the degradation landscape in cancer
14:30	15:00	**Alessio Ciulli**	Inducing protein degradation with small molecules: How PROTACs work
15:00	15:15	Oded Kleifeld	Identification of proteolysis signatures utilizing a new carboxy terminal peptides enrichment proteomic metodology
15:15	15:30	Olga Vasiljeva	Monitoring protease activity *in situ* and *in vivo* using Probody Therapeutics as sensing probes
15:30	16:00	Flash talks	
16:00	18:00	Poster session I	

Day 3 Tuesday, Oct 1st

		4. Proteases in cancer related processes	**DL: Bonnie Sloane, Aleksi Sedo**
9:00	9:30	**Irit Sagi**	ECM proteolysis in pancreas cancers: from molecular mechanisms to drug discovery
9:30	10:00	**Marie Kveiborg**	A disintegrin and metalloprotease functions and regulatory mechanisms in cancer progression
10:00	10:15	Thomas Reinheckel	Cathepsin D deficiency in mammary epithelium transiently stalls breast cancer by interference with mTORC1 signaling.
10:15	10:30	Parigiani Maria Alejandra	Pivotal role of Cathepsin L in the maintenance of cell identity and cell cycle in epithelial brest cancer cells
10:30	11:00	Coffee break	
		5. Membrane-associated proteolysis	**DL: Radislav Sedláček, Vincent Dive**
11:00	11:30	**Stefan Lichtenthaler**	BACE1 in neurobiology and Alzheimer's disease
11:30	12:00	**Rama Khokha**	Dissecting proteolysis in cancer stroma through multimodal OMICS
12:00	12:15	Bartsch Joerg W.	Untangling the protease web: ADAM8 affects breast cancer progression by regulating ADAM17 and MMP-9 activities in the tumor microenvironment
12:15	12:30	Amy Weeks	Mapping proteolysis at the surface of living cells
12:30	14:00	Lunch	
		6. Intramembrane proteases	**DL: Harald Steiner, Joanne Lemieux**
14:00	14:30	**Marius Lemberg**	Role of intramembrane proteases in the control of cellular protein homeostasis
14:30	15:00	**Lucia Chavez Gutierrez**	Structural metastability of Presenilin: implications for Alzheimer´s disease and drug discovery
15:00	15:15	Guanghui Yang	Structural basis of substrates recognition by human γ-secretase
15:15	15:30	Bernd Schroeder	The role of the intramembrane proteases SPPL2a/b in metabolic regulation
15:30	16:00	Coffee break	
		7. Protease/pseudoprotease interfaces	**DL: Kvido Strisovsky**
16:00	16:30	**Colin Adrain**	iRhom pseudoproteases and regulation of energy balance
16:30	17:00	**Sonya Neal**	Rhomboid pseudoprotease Dfm1 is required for ERAD dislocation of integral membrane proteins.
17:00	17:15	Jakub Began	Rhomboid protease licenses membrane protein quality control as adaptor of FtsH AAA protease independently of its protease activity.
17:15	17:30	Regina Fluhrer	SPPL2c – A formerly orphan aspartyl intramembrane protease regulates protein transport during spermatogenesis.
17:30	18:30	**IPS Member Business Meeting / Election**	

Day 4 Wednesday, Oct 2nd

		8. Proteases in parasite and virus biology	**DL: Jeanne Hardy, Jan Dvořák**
9:00	9:30	**Jim McKerrow**	Parasite proteases: function, evolution, and inhibition
9:30	10:00	**Mike Blackman**	Breaking out: proteases in egress of the malaria parasite from its host red blood cell
10:00	10:15	Mottram Jeremy	Cysteine peptidases of *Leishmania* essential for life cycle progression
10:15	10:30	Dan Sojka	Late digestive peptidase isoenzymes in ticks
10:30	11:00	Coffee break	
		9. Protease inhibition and silencing as regulatory or therapeutic mechanisms	**DL: Dieter Bromme, Alex Wlodawer**
11:00	11:30	**Ingrid Wertz**	Targeting deubiquitinases for therapeutic benefit
11:30	12:00	**Nabil Seidah**	The protease and non-protease activities of the proprotein convertase PCSK7: triglyceride metabolism and beyond
12:00	12:15	Sivaraman Jarayaman	Structural basis for the function of ScpC, a virulence protease from *Streptococcus pyogenes*
12:15	12:30	Henry Mok	DENV-captured plasmin enhances mosquito midgut infection and is inhibited by an endogenous Kazal-type inhibitor AaTI.
12:30	14:00	Lunch	
14:00	20:00	Free afternoon	
20:00	20:30	Flash talks	
20:30	22:30	Poster session II	

Day 5 Thursday, Oct 3rd

		10. Chemical biology approaches to proteases	**DL: Benedikt Kessler, Oliver Schilling**
9:00	9:30	**Edward Tate**	Proteomic protease probes
9:30	10:00	**Edgar Deu**	The proteolytic activities of *Plasmodium* dipeptidyl aminopeptidases and DNA-damage inducible protein 1 play different roles in erythrocyte invasion by the malaria parasite.
10:00	10:15	Marcin Drag	Engineered unnatural ubiquitin for optimal detection of deubiquitinylating enzymes (DUBs)
10:15	10:30	Andrew Griswold	CHOPS - A chemical strategy for protease substrate profiling
10:30	11:00	Coffee break	
		11. Emerging topics	**DL: Manjunatha Kini, Ulrich auf dem Keller**
11:00	11:30	**Matt Bogyo**	Design of selective activity-based probes for proteases using phage display
11:30	12:00	**Jan Potempa**	Molecular Koch's postulates applied to bacterial pathogenicity of Alzheimer's disease
12:00	12:15	Anthony O 'Donoghue	Point-of-care quantitation of protease activity in biofluids
12:15	12:30	Hans-Ulrich Demuth	Glutaminyl cyclase is regulating the proteolytic activity of *Porphyromonas gingivalis* proteases – novel upstream target to treat periodontitis.
12:30	14:00	Lunch	
		Lifetime achievement lecture	**DL: Jan Konvalinka**
14:00	15:00	**Judith Clements**	From mice to me – KLKs on steroids: insights into the roles of the KLK peptidases in hormone-dependent cancers
		Closing keynote lecture	**DL: Kvido Strisovsky**
15:00	16:00	**Seamus Martin**	Proteases at the nexus between cell death and inflammation
19:00	21:00	Gala dinner with IPS Young Investigator Award, Poster Awards, Travel Awards and announcement and presentation of the venue for 2021	
21:00	23:00	Music	

Departures Friday, Oct 4th

6:00	11:00	departure of buses back to Prague at 6 AM, 8 AM, 9 AM