

PORTOROŽ 2010 SYMPOSIUM PROGRAMME

Saturday, September 25

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| from 17:00 | Registration |
| 18:15 – 20:00 | Dinner |
| 20:00 – 20:10 | Opening of the symposium |
| 20:10 – 21:00 | <i>Helmut Holzer Memorial Lecture</i> <u>Peter Vandenabeele</u> : TNF-induced necrosis, multiple regulation of RIP ₁ kinase activity [Chair: Boris Turk] |
| 21:00 – 23:00 | Get-together |

Sunday, September 26

Cathepsins, Friends and their Enemies

[Chair: Gilles Lalmanach]

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| 09:00 – 09:15 | <u>Nobuhiko Katunuma</u> : Expression of autoimmune Sjögren syndrome by cathepsin S processing and its suppression by cathepsin S inhibitor CLIK-60 |
| 09:15 – 09:40 | <u>Klaudia Brix</u> : Truncated cysteine cathepsin variants in the nuclei of normal and malignant cells |
| 09:40 – 10:05 | <u>Lukas Mach</u> : Biosynthesis, intracellular transport and subcellular localization of human cathepsin O |
| 10:05 – 10:20 | <u>Marko Fonović</u> : Sheddase activity of cysteine cathepsins |
| 10:20 – 10:45 | Coffee Break |

[Chair: Nobuhiko Katunuma and Veronika Stoka]

- 10:45 – 11:10 Janko Kos: The role of cathepsin X in immune and neuronal cells
10:10 – 11:35 Gilles Lalmanach: A biologically active stefin (cystatin) A in a few "clicks"
11:35 – 11:50 Dušan Turk: Protease and inhibitors: how (far) do they feel?
11:50 – 12:05 Eva Žerovnik: Interaction between stefin B and amyloid- β : do oligomers of amyloid proteins tend to interact with amyloid peptides?

12:05 – 15:00 Lunch Break

New Dimensions in Tumor Biology

[Chair: Agnes Noël]

- 15:00– 15:25 Bonnie Sloane: Tumor-stromal proteolysis: now playing in 4D
15:25 – 15:50 Christoph Peters: Cysteine cathepsins and tumor progression
15:50 – 16:05 Olga Vasiljeva: Magnetoliposome delivered cysteine cathepsin inhibitor JPM-565 inhibits growth of mammary tumour lesions
16:05 – 16:30 Yasuhiko Ozaki: Role of cysteine proteases and inhibitors in human reproduction: the mechanism of implantation as invasion of cancer

16:30– 16:55 Coffee Break

[Chair: Bonnie Sloane]

- 16:55 – 17:20 Agnes Noël: MMPs in pathological angiogenesis associated with ocular diseases
17:20 – 17:35 Achim Krüger: A disintegrin and metalloproteinase-10 (ADAM-10) mediates DN30 antibody-induced shedding of the Met surface receptor
17:35 – 17:50 Gunilla Høyer-Hansen: Clinical use of cleaved forms of the urokinase receptor
17:50 – 18:05 Nashmil Emami: A potential novel biologic therapy for prostate cancer through targeted inhibition of kallikrein-related peptidase (KLK) 2

18:05 – 20:00 Dinner

20:00 – 21:30 **POSTER SESSION I**

Monday, September 27

Alzheimer's and ...(don't remember)

[Chair: Klaudia Brix]

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| 09:00 – 09:25 | <u>Shoichi Ishiura</u> : Alzheimer beta and gamma secretases |
| 09:25 – 09:40 | <u>Riqiang Yan</u> : BACE1 controls myelination and normal neuronal activity |
| 09:40 – 10:05 | <u>Manuel Than</u> : Structure and biochemical analysis of the heparin-induced E1 dimer of the amyloid precursor protein APP |
| 10:05 – 10:30 | <u>Hans-Ulrich Demuth</u> : Inhibition of the aminopeptidase-related glutaminyl cyclase – a new approach to Alzheimer's therapy |
| 10:30 – 10:45 | <u>Walter Halangk</u> : Experimental severe pancreatitis in mice is attenuated by inhibition of glutaminyl cyclase (QC) |
| 10:45 – 11:10 | Coffee Break |

How to Get Rid of Pathogens

[Chair: Robert Pike]

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| 11:10 – 11:35 | <u>Matthew Bogyo</u> : A screen of covalent protease inhibitors in <i>Toxoplasma gondii</i> identifies a regulator of host cell attachment and invasion |
| 11:35 – 12:00 | <u>Jan Potempa</u> : Karilysin, a novel virulence factor of <i>Tannerella forsythia</i> , is a bacterial xenolog of animal matrix metalloproteinases |
| 12:00 – 12:15 | <u>Vilmos Fulop</u> : Oligopeptidases in peptide processing memory disorders and pathogen virulence |
| 12:15 – 12:30 | <i>join for a group photo</i> |
| 12:30 – 15:00 | Lunch Break |

Autodisruption

[Chair: Peter Vandenabeele]

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| 15:00– 15:25 | <u>Joe Trapani</u> : Apoptotic and non-apoptotic functions of granzymes |
| 15:25 – 15:50 | <u>Boris Zhivotovsky</u> : Caspase-8 and the sensitivity of small cell lung carcinoma cells to TRAIL-induced apoptosis |
| 15:50 – 16:15 | <u>Gunnar Pejler</u> : Serglycin proteoglycan-master regulator of protease storage and apoptosis in mast cells |
| 16:15 – 16:30 | <u>Thomas Reinheckel</u> : Cathepsin L functions in endocytic and autophagic pathways |
| 16:30– 16:55 | Coffee Break |

Networks, Horizons, Wonders

[Chair: Guy Salvesen]

- 16:55 – 17:20 Kris Gevaert: Double-hit wonders, protein ends shake hand
17:20 – 17:35 Veronika Stoka: Crosstalk of the kallikrein-kinin and the renin-angiotensin systems: a complex molecular network
17:35 – 17:50 Marko Mihelič: High-throughput protein production platform – first step in the characterization of lysosomal protein interaction networks

Get Degraded the Other Way Around

[Chair: Christian Sommerhof]

- 17:50 – 18:15 Guy Salvesen: The mechanism and dynamics of SUMO chain deconjugation by SUMO-specific proteases
18:15 – 18:30 Christopher Scott: Regulation of Ras converting enzyme 1 (RCE1) by ubiquitin specific protease 17 (USP17/DUB3)
18:30 – 18:45 Michèle Reboud-Ravaux: Novel series of organic non-covalent inhibitors of mammalian proteasomes: structure-activity relationships

18:45 – 20:30 Dinner

20:30 – 22:00 **POSTER SESSION II**

Tuesday, September 28

Serines Involved

[Chair: Marianne Jochum]

- 09:00 – 09:25 Rob Pike: Cleavage of protein substrates by thrombin is influenced by enzyme subsite cooperativity and substrate structure
09:25 – 09:50 Christian Sommerhoff: Inhibitors of mast cell tryptase β : Shrink to fit
09:50 – 10:15 James Huntington: Conformational and dynamic effects of thrombin ligation revealed by NMR

10:15 – 10:40 Coffee Break

News From the Aspartic World

[Chair: Dušan Turk]

- 10:40 – 11:05 Kenji Yamamoto: Novel functions of cathepsin E in epidermal differentiation and aging
- 11:05 – 11:30 Alexander Wlodawer: New structure of a retroviral protease that looks quite different than HIV PR, merging features of both retroviral and pepsin-like enzymes
- 11:30 – 11:55 Alla Gustchina: Complexes of aspartic proteases with allophenylnorstatine - containing (KNI) inhibitors

[Chair: Marko Fonović]

- 11:55 – 12:10 Gyula Csanádi: How Bio-Rad can support your protein studies (BioRad - sponsor talk)
- 12:10 – 12:25 Elisa Basso: Bruker mass spectrometry - powerful tool for proteomics challenges (Bruker - sponsor talk)
- 12:25 – 12:55 Laszlo Toth: The power of optical sectioning (Zeiss – sponsor talk)
- 12:55 – 17:00 Lunch Break

Metallic Action

[Chair: Achim Krüger]

- 17:00 – 17:25 Walter Stoecker: Activation and inhibition of astacin proteases
- 17:25 – 17:50 Francesc X. Aviles: Enzymes and inhibitors for metallo-carboxypeptidases: inconclusive complementations and difficult applications
- 18:00 – 18:45 *Closing Lecture* – in memoriam *Koichi Suzuki*
Hiroyuki Sorimachi: Calpains in muscles and stomach
[Chair: Vito Turk]
- 20:00 – 24:00 Conference Dinner

Wednesday, September 29

Hotel check-out & Departure