

10th SWISS APOPTOSIS MEETING

Bern, September 12-14 2018
Langhans Auditorium, Institute of Pathology
University of Bern

Program Overview

Wednesday, September 12th



**LS² Satellite Symposium:
Concepts and Methods in
Programmed Cell Death and Autophagy**



12h30– 13h15	<i>Registration and poster mounting</i>
13h20– 13h30	Welcome address
13h30– 14h00	"Crosstalk in Academic and Pharmaceutical Biomedical Research" Part I Chair: Mario Tschan Nicolas Leupin , MD/MBA, CMO Argenx
14h00– 15h30	Main speakers: Concepts and Methods in Programmed Cell Death and Autophagy Chair: Thomas Kaufmann
14h00 – 14h30	Nikolai Engedal - Cargo-based assays for measuring bulk autophagic activity - What they can do that LC3 cannot
14h30 – 15h00	Philipp Jost - Apoptosis and cancer
15h00 – 15h30	Lynn Wong - Decisions in cell death and the consequences in vivo
15h30– 16h00	Coffee Break
16h00– 16h30	Seamus Martin: "Tips for Publishing in Scientific Journals"

16h30– 17h30

Short talks from selected student abstracts

Chair: Ivano Amelio

Alessandro Marazza – Endoplasmic reticulum quality control of collagen in eukaryotic cells

Nicolas Niklaus – Autophagy enhances migration and invasion of EMT-primed breast cancer cells

Stefanie Rufli – XIAP inhibits TNFR2-induced inflammation and cell death mediated by RIPK1 kinase activity

Raed Shalaby – Single-molecule experiments on BOK, a BCL-2 family member

Haitang Yang – HSP90 drives a mesenchymal therapy-resistant cancer cell state by enabling ER stress-adaptive unfolded protein response pathways

Nina Germic - ATG5 regulates eosinophil hematopoiesis

17h30– 18h00

"Crosstalk in Academic and Pharmaceutical Biomedical Research" Part 2

Chair: Mario Tschan

Adrian Britschgi, PhD, Group Leader pRed, Roche

18h00– 18h45

Flash Poster Presentations – (*Posters will be on display the whole meeting*)

Chairs: Magali Humbert & Anna Schläfli

- (1) Christine Engelmann; (2) Cristiano Guttà; (3) Félice Janser;
(4) Gerlinde Karbon; (5) Rebekka Lambrecht; (6) Nathan Leborgne;
(7) Manon Lernoux; (8) Nikita Markov; (9) Mélanie Op;
(10) Shuang Peng; (11) Sreoshee Rafiq; (12) Kristina Seiler;
(13) Igor Tokarchuk; (14) Anusha Venkatram; (15) Duo Xu

19h00–

Student and Teacher Dinner

(Insel Hospital Restaurant 'Panorama', only for invited students and the speakers)

10th SWISS APOPTOSIS MEETING

Thursday, September 13th 2018

- 08h00– 10h00 *Registration and poster mounting*
- 10h00– 10h15 **Welcome address**
- 10h15– 12h15 **Session I: Cancer/Autophagy/Cell Death**
Chair: Markus Rehm
- 10h15 – 10h45 **Gerard Evan** - Determining the molecular basis of cancer
- 10h45 – 11h15 **Kevin Ryan** - Cancer metabolism – cell growth and cell death
- 11h15 – 11h45 **Gerry Melino** - TAp73 regulates glutamine metabolism and contributes to the oxidative stress response by regulating translation
- Short Presentations*
- 11h45 – 12h00 **Yuniel Fernandez Marrero** – Negative regulation of BOK expression by recruitment of TRIM28 to U-rich elements in its 3' untranslated region
- 12h00 – 12h15 **Dagmar Kulms** - Cancer cells employ nuclear caspase-8 to overcome the p53-dependent G2/M checkpoint
- 12h15– 14h00 **Lunch break**
- 14h00– 15h30 **Session II: Autophagy**
Chair: Hans-Uwe Simon
- 14h00 – 14h30 **Tassula Proikas-Cezanne** - The role of human WIPI proteins in autophagy, health and disease
- 14h30 – 15h00 **Nikolai Engedal** - PERK and ATF4 play distinct, essential roles in ER stress-induced autophagy
- Short Presentations*
- 15h00 – 15h15 **Lazaros Vasilikos** - Loss of cIAP1 in the tumor microenvironment disfavors cancer metastasis
- 15h15 – 15h30 **Manuel Haschka** - The dynamics of the apoptosis regulating BCL2 family during extended mitotic arrest
- 15h30– 16h15 **Coffee break**
- 16h15– 17h00 **Quick Oral Presentations**
Chair: Pascal Meier
- Ivano Amelio** - Crosstalk between p53 family and hypoxia inducible factor in cancer

Magali Humbert - Elucidating the Non-Catalytic Function of Fatty Acid Synthase and its Autophagy-Dependent Degradation in Acute Myelocytic Leukemia Differentiation Therapy

He Liu - ATG12 deficiency leads to tumor cell oncosis due to diminished mitochondrial biogenesis and reduced cellular bioenergetics

Xiulin Ng - Regulation of Mcl-1 by deubiquitinases

Matteo Rossi - ACSL3 inhibition renders pancreatic tumors responsive to therapy

Josip Skoko - Exploiting proteasome inhibition and delineating the role of caspase-8 in inducing cell death in melanoma

Lesley Stark - Nucleoli-NF- κ B crosstalk in the regulation of apoptosis

17h15– 18h00

Session III: Institute of Pathology Talk - Precision Medicine

Keynote lecture. Introduction: Mario Tschan

Anthony Letai (Boston):

Dynamic BH3 Profiling- The New Precision Medicine In Oncology



18h00– 20h00

Poster Session and Apéro.

20h30– ?

Conference BBQ Party.

("Heubühne", Bernstrasse 77, 3018 Bern; www.bienzgut.ch)

Friday, September 14th 2018

08h30 – 10h00

Session IV: Cell Death & Autophagy

Chair: Ian Gentle

08h30 – 09h00

Lisa Frankel - Translational control of autophagy by eIF5A

09h00 – 09h30

Stephen Tait - Mechanisms and impact of mtDNA release during cell death

Short Presentations

09h30 – 09h45

Sheila Bohler - Deciphering the role of anti-apoptotic BCL-XL and MCL-1 for maintenance of the human hematopoietic system

09h45 – 10h00

Jerome Estaquier - Treatment with caspase inhibitor prevents death of effector cytotoxic CD4 T cells and disease progression to Aids in rhesus macaques

10h00– 10h45

Coffee break

10h45– 12h00 **Session IV(cont)**

Chair: John Silke

10h45 – 11h15 **Ana Garcia Saez** - Single molecule analysis of Bax and Bak assembly: where the similitude ends

11h15 – 11h45 **Claudine Kraft** - Molecular mechanisms of autophagosome formation and fusion

Short Presentation

11h45 – 12h00 **Simon Neumann** - The BH3-only protein Puma modulates glucose withdrawal-induced apoptosis – Evidence for a non-apoptotic function in regulation of metabolism?

12h00– 13h45 **Lunch break**

13h45– 16h30 **Session V: Necro(pto)sis & Inflammation**

Chair: Lynn Wong & Stephen Tait:

13h45 – 14h15 **Seamus Martin** - Cell Stress, Cell Death and Inflammation

14h15 – 14h45 **Peter Vandenabeele** - Potency of different cell death modalities to induce an anti-tumor response

Short Presentations

14h45 – 15h00 **Svenja Michalek** - Regulation of glucocorticoid-induced cell death in leukemic T cells by LRH-1

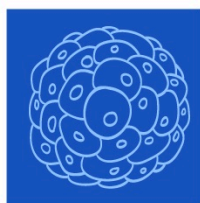
15h00 – 15h15 **Dominik Brokatzky** - The mitochondrial apoptosis apparatus can be used to detect microbial infection

15h15 – 15h30 **Bruce Weder** - BCL-2 levels do not predict azathioprine treatment response in inflammatory bowel disease, but inhibition induces lymphocyte apoptosis and ameliorates colitis in mice

15h30 – 16h00 **Pascal Meier** – Death by Altruism

16h00 – 16h30 **John Silke** - Cell death as a life choice - how TNF, cell death and microbiota intersect in inflammatory diseases

16h30– 16h45 **Cells and FEBS Journal Poster Prizes and Concluding Remarks**



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