



Swiss Apoptosis & Autophagy Meeting 2021

September 9-10

Langhans Auditorium.
Institute of Pathology, University of Bern



Program

Thursday, September 9th, 2021

LS² Satellite Symposium



08h00 – 08h25 Registration at info desk

08h25 – 08h30 **Welcome address**
Mario Tschan (University of Bern)

08h30– 10h00 Main speakers: **Concepts and Methods in Programmed Cell Death and Autophagy**

Chair: Mario Tschan (University of Bern)

08h30 – 08h55 **Lynn Wong**, University of Zurich - **Cell death**

08h55 – 09h20 **Irmela Jeremias**, Helmholtz Zentrum, Munich - **In vivo models**

09h20 – 09h45 **Magali Humbert**, University of Bern - **Autophagy**

09h45 – 10h00 **Flash Poster Presentations (I)**
(Posters will be on display the entire meeting)

Chair: Mario Tschan (University of Bern)

Yunus Akkoc, Koç University.

Autophagy inhibitory miRNA carried AGO2-conjugated SPION nanoparticles for the treatment of breast cancer

Darya Karatkevich, University of Bern

Schedule-dependent treatment increases chemotherapy efficacy in malignant pleural mesothelioma

Felipe Renna, University of Buenos Aires

The Ubiquitin System is a critical regulator of VMP1-dependent autophagy in human pancreatic cancer cells.

Joel Tuomaala, University of Bern

A role for ribophagy in balancing starvation resistance and the rate of recovery

Jun Xu, University of Bern

BNIP3L/NIX, a downstream effector of oncogenic DMTF1B signaling in prostate and breast cancer cells

10h00– 10h30 Coffee Break

10h30– 10h55 **Nicolas Leupin.** *Chief Medical Officer of Molecular Partners. Crosstalk in Academic and Pharmaceutical Biomedical Research*

10h55– 11h20 **Seamus Martin.** *Editor-in-chief, FEBS / Trinity College Dublin. IR Tips for publishing in scientific journals*

Chair: Thommi Brunner (University of Konstanz)

11h20 – 11h55 Flash Poster Presentations (II)
(Posters will be on display the entire meeting)

Chair: Thommi Brunner (University of Konstanz)

Laura Griewahn, University of Freiburg, Germany

SPATA2 and CYLD independently control pro-inflammatory signaling and B-cell homeostasis

Naile Koleci, Uniklinik Freiburg, Germany

Analyzing the effects of oncogenic SHP2 on apoptosis signaling during malignant transformation

Lukas Meisinger, University Konstanz

Targeting LRH-1-regulated energy metabolism in T-ALL

Kateryna Shkarina, University of Lausanne

Optogenetic control of programmed cell death reveals the key role of bystander signaling response in regulation of epithelial integrity and inflammatory response

Stavroula Zagkou, UCBL

Design and evaluation of autophagy inducing particles: towards a treatment of fatty liver disease?

11th Swiss Apoptosis and Autophagy Meeting (SA2M)

- 10h00– 13h00** Registration and poster mounting at info desk
- 13h00– 13h05** **Welcome address**
Mario Tschan & Thomas Brunner (University of Bern & Konstanz)
- 13h05– 14h15** **Session I: Cell Death/Cancer**
Chair: Georg Häcker (University of Fribourg)
- 13h05 – 13h30 **Ivano Amelio, University of Rome Tor Vergata**
p53 prevents genomic instability preserving epigenetic integrity
- 13h30 – 13h55 **Ana Martin-Villalba, German Cancer Research Center, Heidelberg**
A systems biology approach towards understanding the role of CD95 in cancer cells
- 13h55 – 14h10 **Rebekka Lambrecht, University of Konstanz**
Bioenergetic profile determines Paracetamol-induced liver damage by modulating mitophagy but not apoptosis
- 14h10 – 14h25 **Joel Riley, University of Glasgow**
Mitochondrial dynamics regulate genome stability via control of caspase-dependent DNA damage

14h25 – 15h15 **Session II: Autophagy (Part one)**

Chair: Georg Häcker (University of Fribourg)

14h25 – 14h50 **Mathias Peter**, *Institute for Biochemistry. ETH Zurich*
Atg1-dependent regulation of the core autophagy machinery

14h50 – 15h15 **Angelika Harbauer**, *Max Planck Institute of Neurobiology, Germany*
Mitophagy in neurons - distal challenges and local opportunities

15h15– 16h00 **Coffee break**

16h00 – 16h40 **Session III: Autophagy (Part two)**

Chair: Mario Tschan (University of Bern)

16h00 – 16h25 **Carine Joffre**, *CRCT. INSERM. University of Toulouse*
Autophagy, a major metabolic regulator involved in AML progression and therapy resistance

16h25 – 17h00 **Quick Oral Presentations**
(Posters will be on display the entire meeting)

Chair: Mario Tschan (University of Bern)

Karla Alvarez Valadez, *Centre de Recherche des Cordeliers*
Studying the interplay between TFEB, autophagy and lysosomal damage within the Prestwick Chemical Library

Anna Bill, *University of Bern*
Unraveling DMTF16 mediated oncogenic signaling in breast and prostate cancer

Harpreet Mandhair, *University of Bern*
ULK complex blockade elicits NF- κ B activation in GCB-DLBCL whilst augmenting cytotoxicity of Ibrutinib

Nesibe Peker, *Koç University*

A Novel Protein Complex Comprising Autophagy and Ubiquitin Proteasome System Proteins Potentiates Autophagic Clearance of Mitochondria

Haibin Deng, *University of Bern*

Lactate utilization is a metabolic dependency of tumor-initiating cells in non-small cell lung cancer

17h00 – 17h45 **Keynote lecture.**

Session III: Institute of Pathology Talk - Translational Research

Introduction: Mario Tschan (University of Bern)

Sylviane Muller, *University of Strasbourg*

"Exploiting B cell autophagy-lysosomal dysfunctions as a therapeutic target in auto-inflammatory diseases"



17h45 – 19h15 **Poster Session I /Meet the Expert**

19h15 - ? **Conference BBQ Party***

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

**If situation allows*

Friday, September 10th, 2021

09h00 – 9h30 Start your day with a coffee and networking

09h30 – 11h20 **Session IV: Cell Death & Autophagy**

Chair: Thomas Kaufmann (University of Bern)

09h30 – 09h55 **Manolis Pasparakis, University of Cologne.**

Cell death and inflammation in the skin: lessons from mouse models

09h55 – 10h20 **Philipp Jost, University of Graz**

Inflammation and Cell Death in Leukemia.

10h20 – 10h45 **Claudine Kraft, University of Freiburg.**

Spatiotemporal control of autophagosome formation

10h45 – 11h10 **Lynn Wong, University of Zurich.**

The divergent roles of inhibitors of apoptosis proteins in cancer

11h10 – 11h25 **Kay Hänggi, Moffitt Cancer Center and Research Institute**

Necroptosis in tumors alters signaling pathway signatures and the tumor microenvironment to promote tumor progression

11h25 – 11h50 Quick Oral Presentations

(Posters will be on display the entire meeting)

Chair: Thomas Kaufmann (University of Bern)

Stefani Rufli, University of Zurich

TNFR2 induces STING activation in the absence of XIAP

Marina Schapfl, Medical University of Innsbruck

Investigating a potential crosstalk between mitochondrial apoptosis and ferroptosis

Sheila Bohler, University Medical Center Freiburg

Using BH3-mimetics in combination with azacitidine to fight juvenile myelomonocytic leukemia

Darko Stojkov, University of Bern
NET formation does not depend on gasdermin D and pyroptotic cell death

11h50 – 13h15 Lunch break and Poster Session II /Meet the Expert

12h45 – 13h15 *Assembly of LS² Section Autophagy (open to LS² members)*

13h15– 14h50 Session IV: *Necro(pto)sis & Inflammation*

Chair: Thommi Brunner (University of Konstanz)

13h15 – 13h40 **Georg Häcker, University of Freiburg**
Inflammatory signals of mitochondrial apoptosis

13h40 – 14h55 **Kerstin Brinkmann, The Walter and Eliza Hall Institute of Medical Research – Australia**
Exploring the anti-apoptotic and apoptosis-unrelated functions of MCL-1 during embryonic and blood cell development to advance MCL-1 inhibitors in clinical trials for cancer

14h05 – 14h30 **Petr Broz, University of Lausanne.**
Pyroptosis, a proinflammatory cell death coordinating host defense and inflammation

14h30 – 14h45 **Seamus Martin, Trinity College Dublin**
Cell Stress and Inflammation

14h45 – 15h00 Announcement of Best Poster and Short Talks
Concluding Remarks