



– 12th International Summer School



Hôtel du Léman
CENTRE DE SÉMINAIRES





Inflammation, Immunomodulation, Inspiration



12th International Summer School

Topic: Inflammation, Immunomodulation, Inspiration

Location: 12th International Summer School, 2019

Faculty:

Dr. [Name], [Institution]

Dr. [Name], [Institution]

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Inflammation, Immunomodulation, Inspiration



– 12th International Summer School

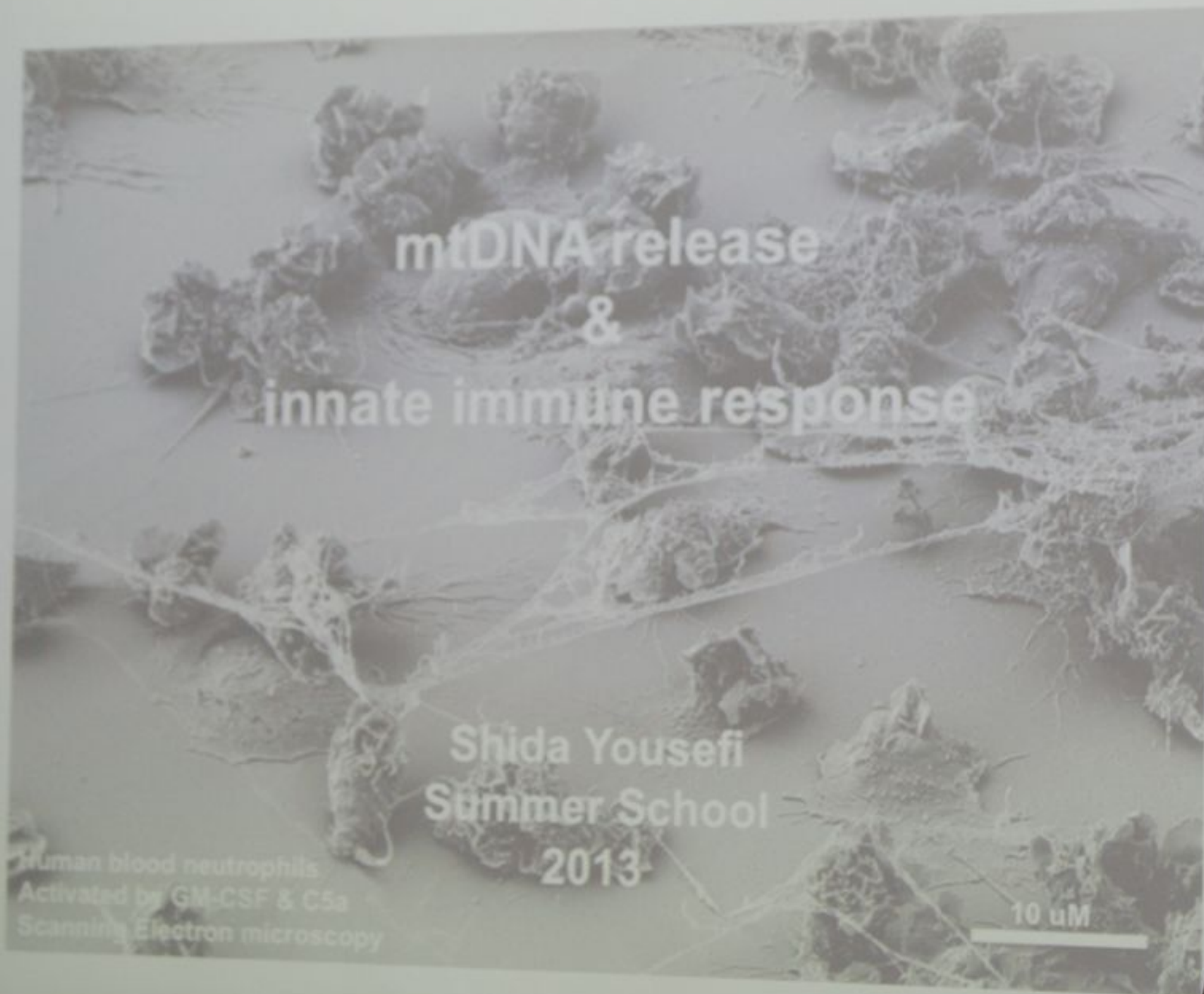
Organisation:
Prof. Hans-Uwe Simon, MD, PhD

Date: August 4-6, 2013

Location: Hotel du Léman, CH – 1805 Jongny

Faculty:

Dr. Charaf Benarafa (Bern)
Dr. Alexander Eggel (Bern)
Prof. Britta Engelhardt (Bern)
Prof. Irena Minaric-Rascan (Ljubljana, Slovenia)
Dr. Remo Perazzo (Geneva)
Prof. Peter Ruth (Tübingen, Germany)
Prof. Hans-Uwe Simon (Bern)
PD Dr. Jens V. Stein (Bern)
Prof. Fabienne Tacchini-Cottier (Lausanne)
PD Dr. Mario Tschan (Bern)
PD Dr. Stephan von Gunten (Bern)
Prof. Shida Yousefi (Bern)
Prof. Uwe Zangemeister-Wittke (Bern)



mtDNA release & innate immune response

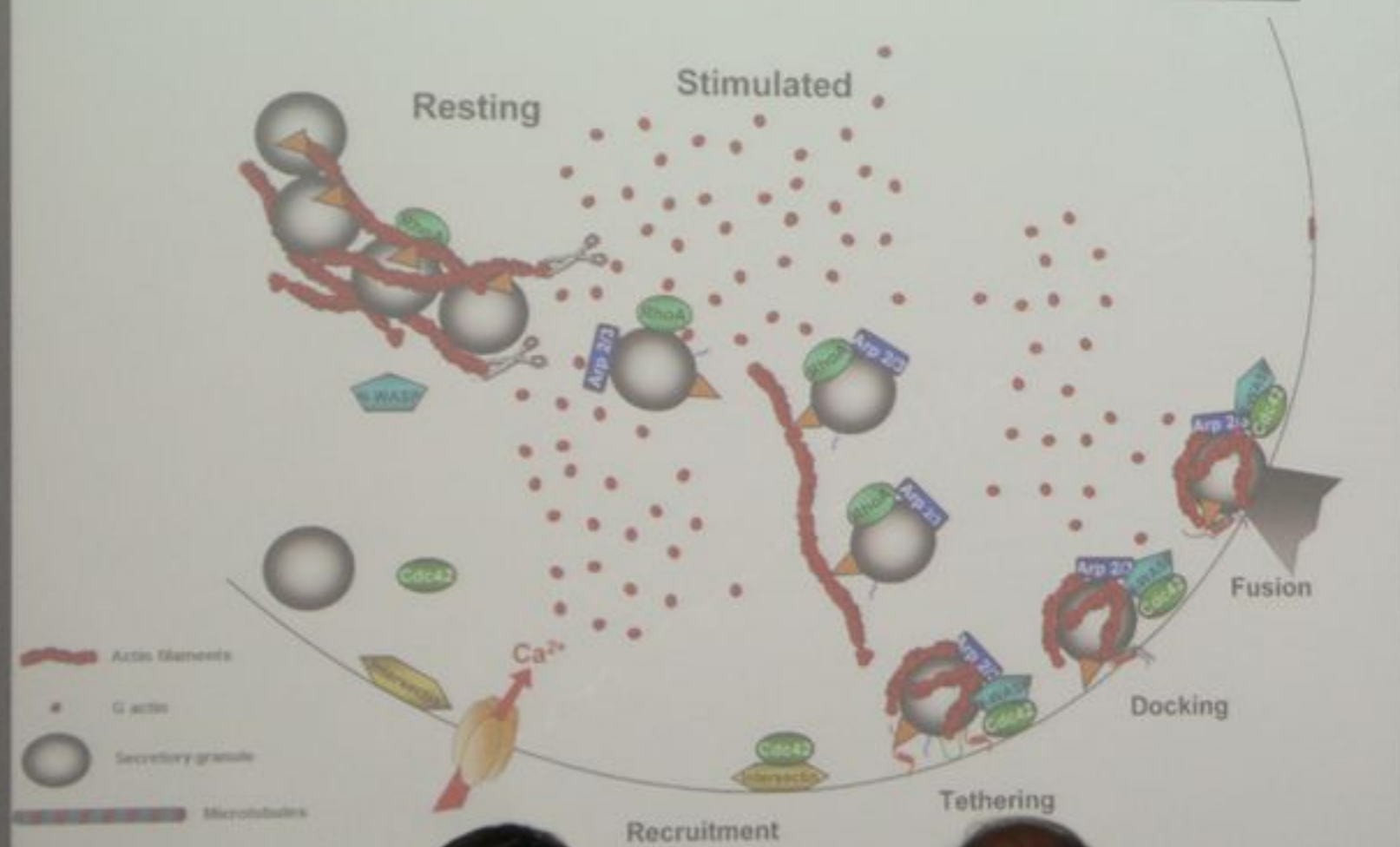
Shida Yousefi
Summer School
2013

Human blood neutrophils
Activated by GM-CSF & C5a
Scanning Electron microscopy

10 μm



Cytoskeleton organization; role of actin, tubulin & calcium



Adapted from [unclear], Biochimica, Biophysica
[unclear] et al., J. Cell Biol. 2003

Thanks to
Prof. Hans-Uwe Simon
Prof. Shida Yousefi
&

Group members

Poorya Amini
Mahbubul Morshed
Evelyne Kozlowski
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Jés Schmid
Melin Krajnc
Jane Stucki

Anna Rozman
Sanne Hoesli
Jiayang Wang

AKI members and blood donors

Collaborators

Prof. Dagmar Simon (Bern)
Prof. Thomas Kaufmann (Bern)
Dr. Charaf Benaraf (Bern)

Prof. Karl-Heinz Krause (Geneva)
Prof. Peter Ruth (Tübingen, Germany)
Prof. Michael Frohman (New York, USA)

u^b

UNIVERSITÄT
DUISBURG
ESSEN

The Death Pathway Leading to Eosinophil Cytolysis

Summer School 2013
Susanne Radonjic-Hösl

Supervisor: Hans-Uwe Simon

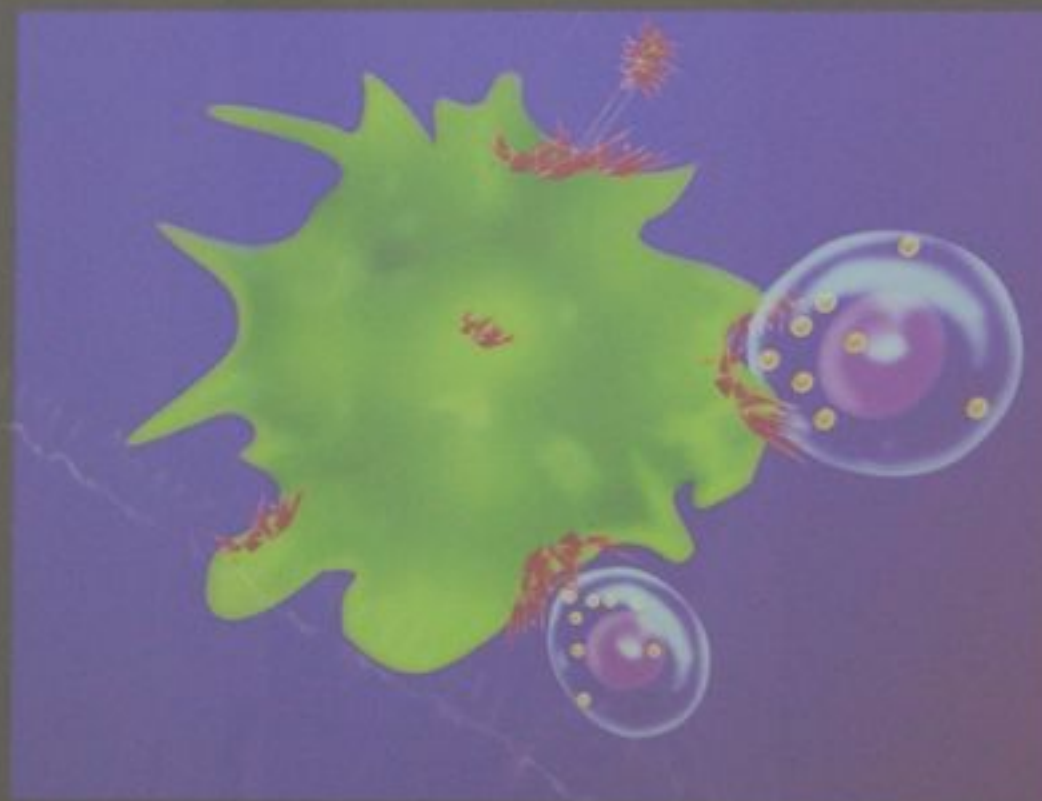






Summer School 2013, Jongny Aug 4-6

Humoral and Cellular Mechanisms of Immunoregulation



Stephan von Gunten, MD, PhD, MME
Institute of Pharmacology, University of Bern
www.pki.unibe.ch

130804 Summer School [Compatibility Mode] Microsoft PowerPoint

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Eosinophil Crosstalk with Dendritic Cells

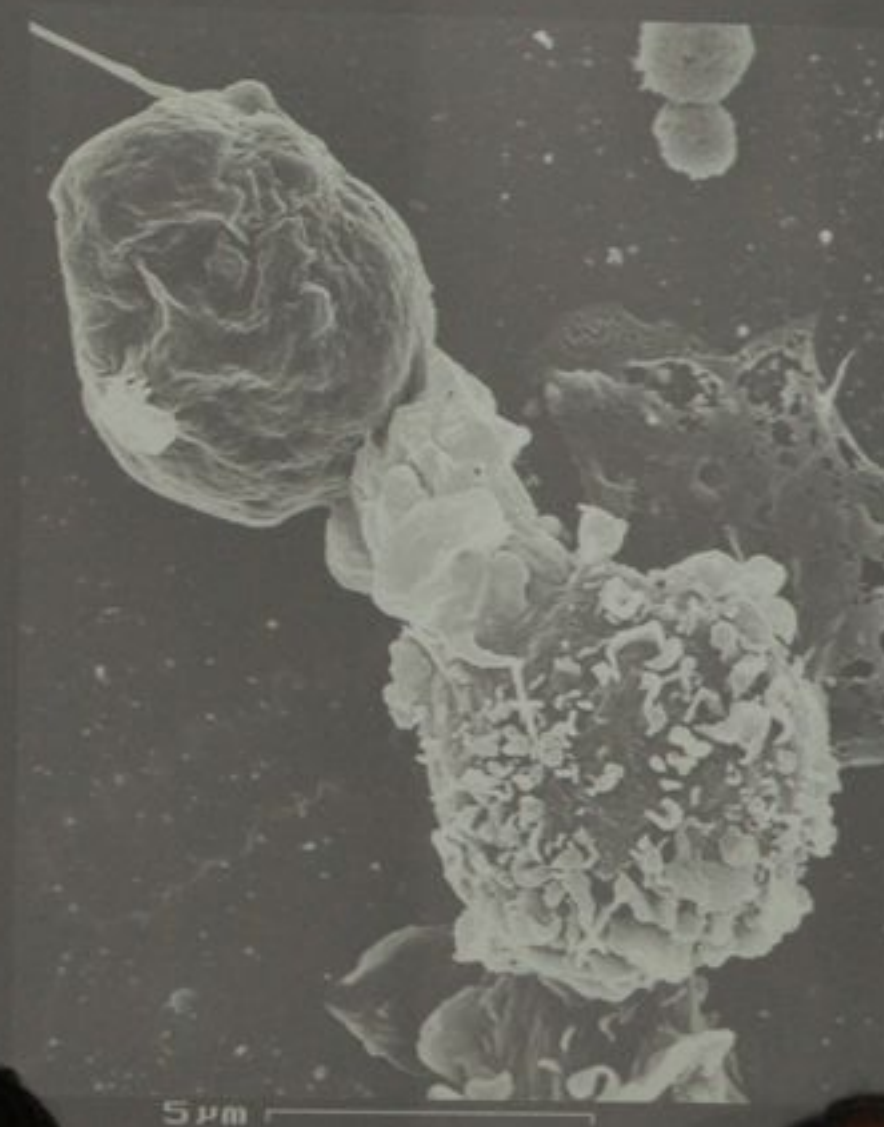
Fabiola Schorer-Cortinas
Summer School
2013

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Slide 1 of 37 "Default Design" German (Switzerland) 16:59



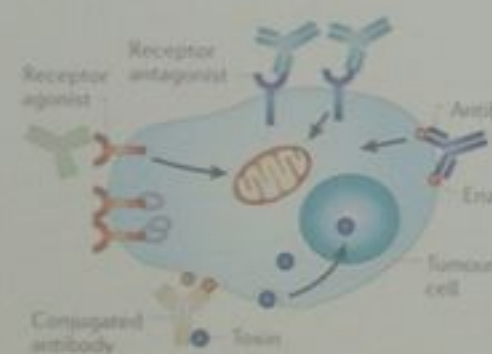
Formation of the innate immunological synapse



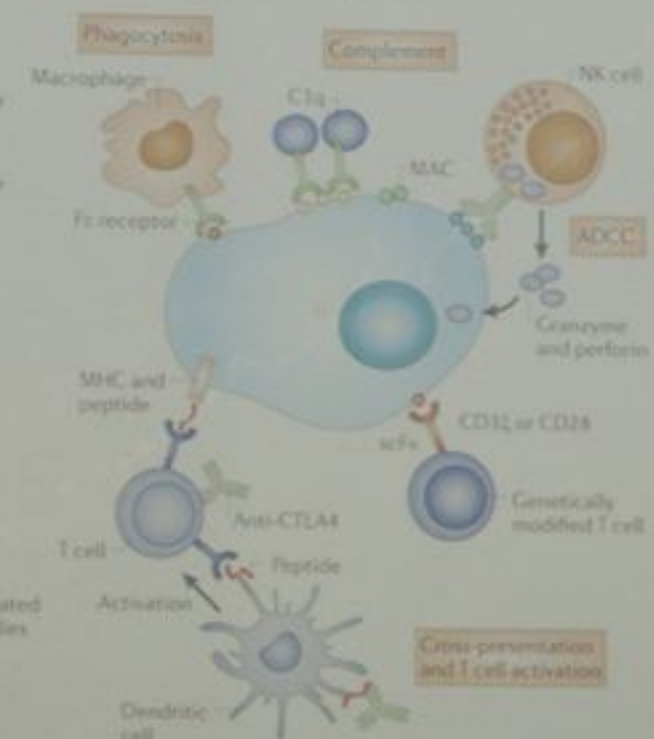


Mechanisms of tumor cell killing by antibodies

a Direct tumour cell killing



b Immune-mediated tumour cell killing



c Vascular and stromal cell ablation



Nature Reviews | Cancer
Scott et al., 2012

Group Simon: Translational Research Program

- Atopic dermatitis
- Eosinophilic esophagitis
- Hypereosinophilic syndrome(s)

allergic

- Cystic fibrosis
- Sepsis

infectious

Rheumatoid arthritis

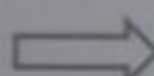
autoimmune

Inflammation

Neutrophils
Eosinophils
Monocytes / DC
T cells

Stem cells

Stress



Apoptosis/
Autophagy

Cancer

- Melanoma
- Leukemias
- Others

Cancer cells



Group Simon: Translational Research Program

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**Apoptosis/
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- Others

**Neutrophils
Eosinophils**
Monocytes / DC
T cells

Stem cells

Cancer cells















PU.1-mediated Regulation of Autophagy
Pathways in Acute Myeloid Leukemia

Mario P. Tschan
Tumor Pathology TP2
Division of Experimental Pathology
Institute of Pathology
University of Bern
Switzerland

12th International Summer School
Jungny 2013



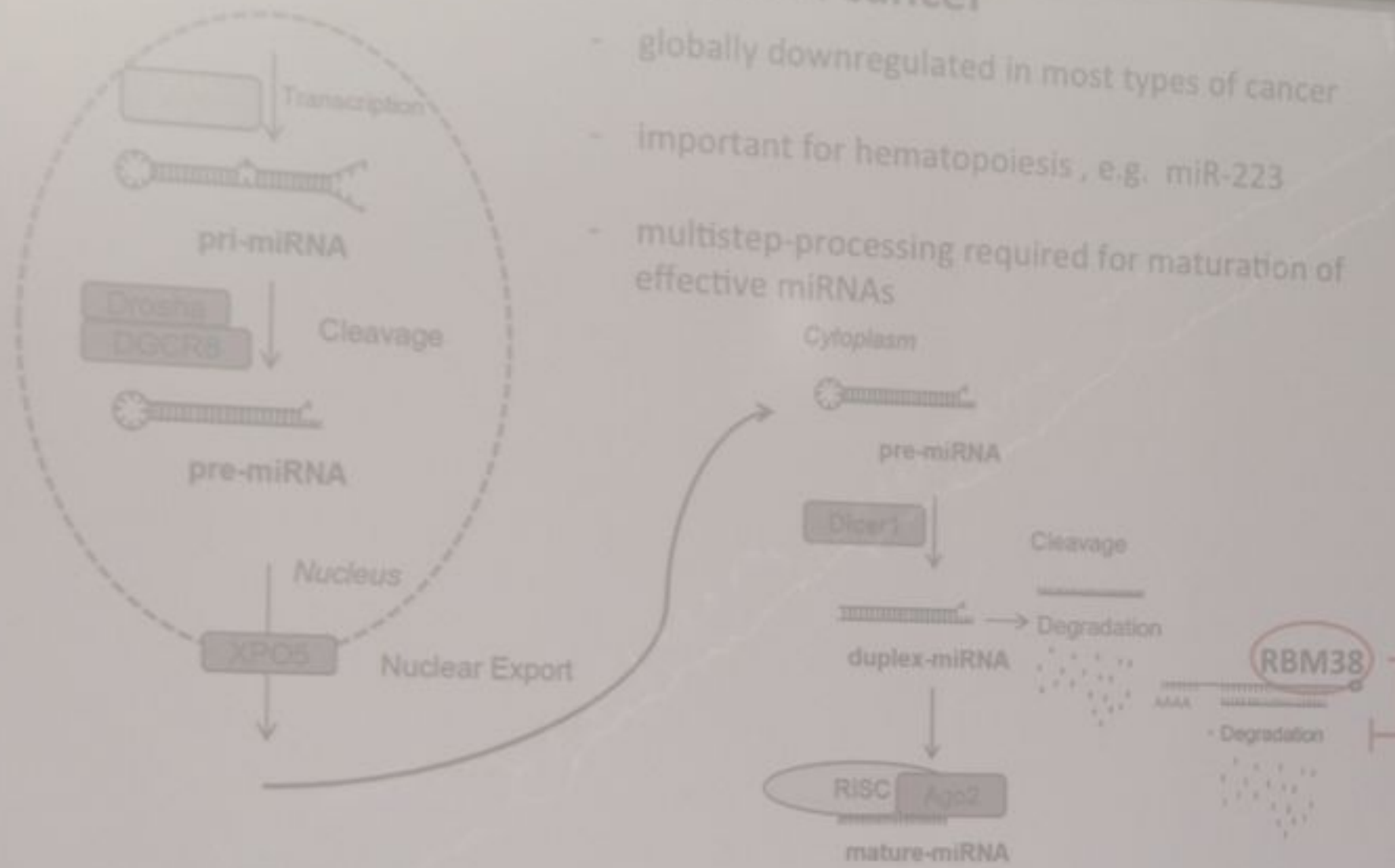
Linking the myeloid transcription factor PU.1 to the Death-Inducing Signaling Complex (DISC)

Aladin Haimovici
Summer school 2013



microRNAs in cancer

- globally downregulated in most types of cancer
- important for hematopoiesis, e.g. miR-223
- multistep-processing required for maturation of effective miRNAs

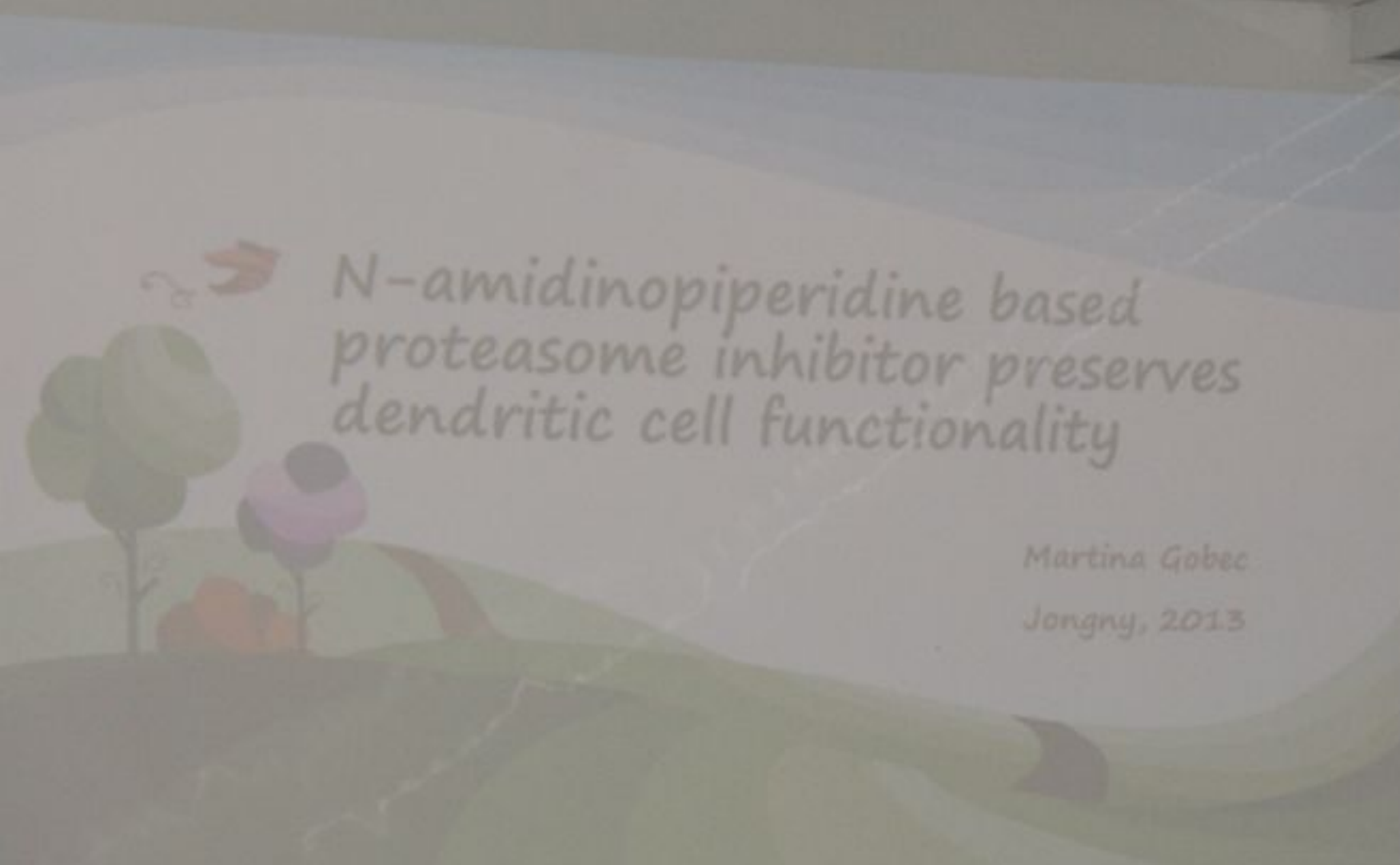






hemistry





*N-amidinopiperidine based
proteasome inhibitor preserves
dendritic cell functionality*

*Martina Gobec
Jongny, 2013*



Cathepsin B inhibitors impair the processes of cancer progression

Izidor Sosič

Ljubljana, 5.8.2013





























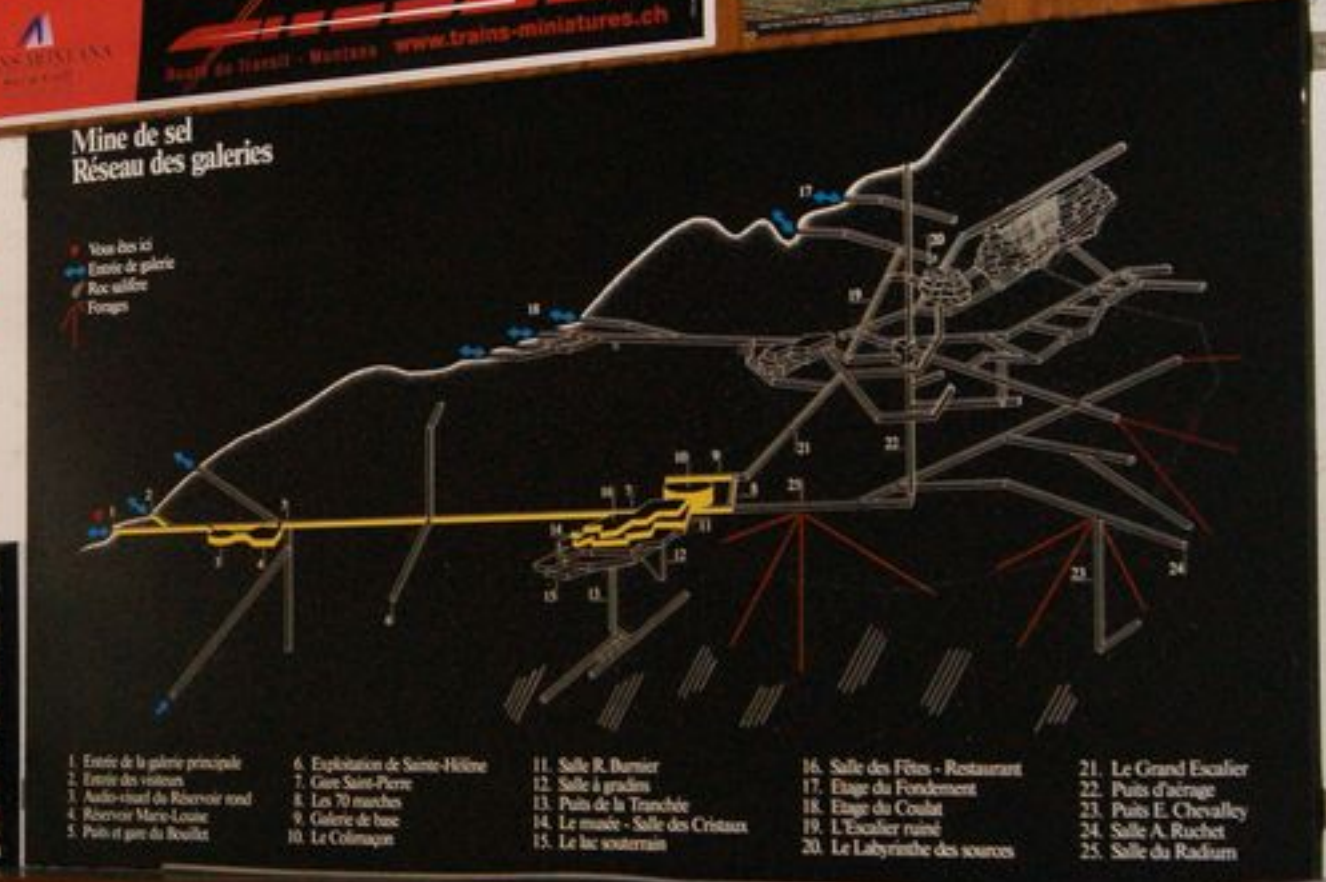




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LES PORTES DE NEUCHÂTE

Moulins souterrains du Col-des-Roches

Moulins souterrains du Col-des-Roches

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Gefahr
Betreten strengstens verboten
Danger
Entrée strictement interdite
Pericolo
È severamente vietato l'entrata





MINE DU BOUILLET

P

TOURISME
DU VAL D'AOSTE
10000 - 10000
10000 - 10000

MINES DE SEL DE BEX

ACCUEIL - ESPACE DE HALLER



