Celebration of 53 Years Basel Institute of Immunology, BII-at-53

Date: Tuesday, 2th of July, 2024.

Organization:

Basel Institute for Immunology (BII) Alumni Committee, bii.alumni@gmx.de

&

International Senior Professional Institute e.V. (ISPIeV), ispiev@gmx.de

&

Research Experience of Stem Cells in Europe Society (RESCES), rescue.society@gmx.de



Place to meet: Novartis Pavillon, Basel







Anne MARCUZ **Nicole SCHMITZ**







Luca PIALI **Sefik ALKAN**

§ Section 1:
Tour Pavillon

9:40-9:50

Welcome to the Pavillon and some introductory words related to Pavillon and what to expect from the exhibition by

Hans-Joachim WALLNY, hjwallny@aol.com







Hans-Joachim WALLNY

10:00-11:00
Self-guided Tour of the exhibition inside the Pavillon as a private person







12:40-13:00 Registration

- **sign up to obtain a name tag at / outside the top floor seminar room in the new D-BSSE building (Department of Biosystems Science and Engineering)**

§ Section 2: Scientific lectures
13:00-16:30 Chairperson: Timm SCHROEDER









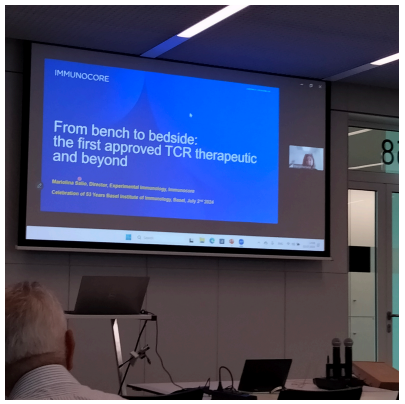
13:00-13:30 (speaker 1),
Timm SCHROEDER, D-BSSE ETH Zürich, Basel, Switzerland,
timm.schroeder@bsse.ethz.ch
Title: Long-term single-cell quantification: New tools for old questions

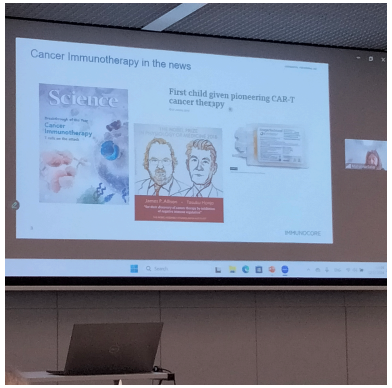


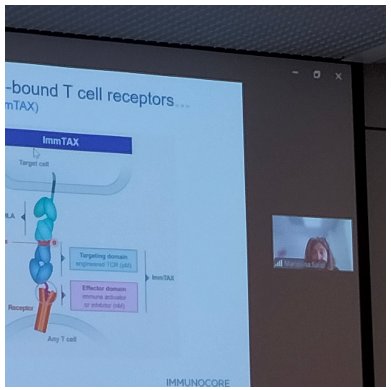


13:30-14:00 (speaker 2),
Sai REDDY, D-BSSE ETH Zürich, Basel, Switzerland,
sai.reddy@bsse.ethz.ch
Title: Next-generation protein engineering of immune receptors













14:00-14:30 (speaker 3),
Mariolina SALIO, (Zoom), Oxford, UK, mariolina.salio@imm.ox.ac.uk
Title: Cancer Immunotherapy with TCR engagers







15:00-15:30 (speaker 4),

Wolfgang SCHAMEL, (Zoom), Freiburg, Germany, wolfgang.schamel@biologie.uni-freiburg.de

Title: Optogenetics: the temporal pattern of TCR stimulation determines T cell fate









15:30-16:00 (speaker 5),
Christopher MUELLER, (Zoom), Strasbourg, France, c.mueller@ibmc-cnrs.unistra.fr
Title: CD169(+) macrophages in lymph node and spleen critically depend on dual RANK and LTbetaR signaling 2022

Tet-on x SV40 Tag transgenic mice => Lymphoid precursor cells

⇒ publications:
⇒ Authors: Una Chen,
⇒ Marie Kosco, and Uwe Staerz (1992)
⇒ "Differentiation of lymphoid and
⇒ myeloid lineages from ES fetuses".
⇒ communicated by Niels Jerne
⇒ in Proc. Natl. Acad. Sci. USA
⇒ 89:2541-2545.
⇒
⇒ => Q: why?

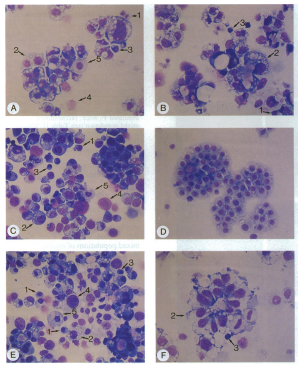


FIG.1.Morphological appearance of hematopoietic mixed populations derived from *in vitro* differentiation of ES cells. (A-F) Representative cell types in groups 1-6, respectively, as summarized inTable1. Morphological description of these cells is in *Results*. Representative examples of various cell types are indicated by arrows: 1, lymphoid lineage; 2, myeloid lineage; 3, erythroid lineage; 4, megakaryocyte (nucleus); 5, mitotic figure (x190.)

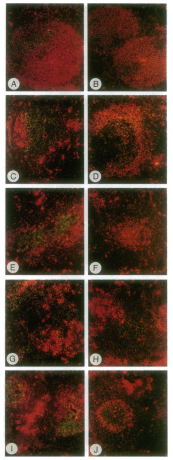
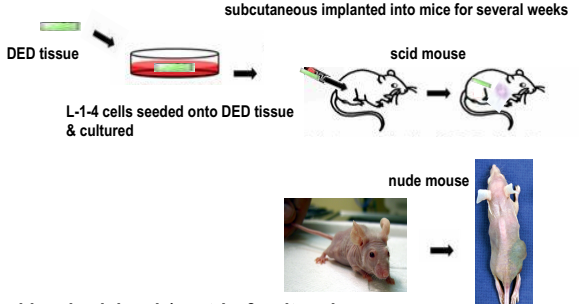


FIG 2. Immunophenotypic characterization of cells within splenic frozen sections from adoptively transferred mice by indirect immune-fluorescence microscopy. In *A, C, E, G,* and *I* sections were stained with anti-*u* conjugated wit Texas red and with anti-Thy-1 conjugated with Green label indicates T cell distribution. *B, D, F* and *J* were stained with anti-*u* conjugated with Texas red and with anti-B220 (14.8) conjugated with FITC. Yellow color indicates cells positive for both *u* and B220. (*A* and *B*) Controls from spleen of (C57BL/6 x BALB/c) F1 mice. (**C** and Sublethally irradiated mice. (*E* and *F*) Group 2. (*G* and *H*) Group 3. (*I* and *J*) Group 1. (x40.)

In vivo implantation & assays:



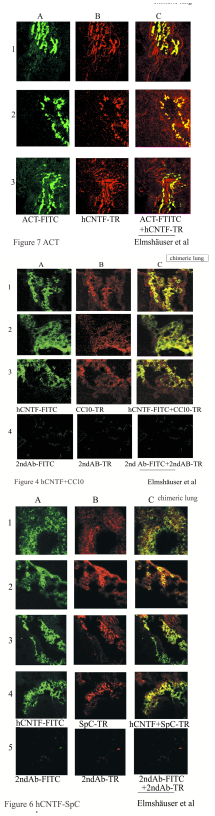
L-1-4 cells seeded on DED (= de-epidermised dermis) matrix, & cultured, then, subcutaneously implanted into SCID / nude mice, for several weeks.

⇒ L14 cells migrate out of the subcutaneous DED matrix (the anaerobic environment), and seed into the lung to establish an well-organized chimeric structure along terminal bronchiole and alveolus with both host and implanted cells.

i.e., In lung-bronchia area, three differentiated cell products are found:

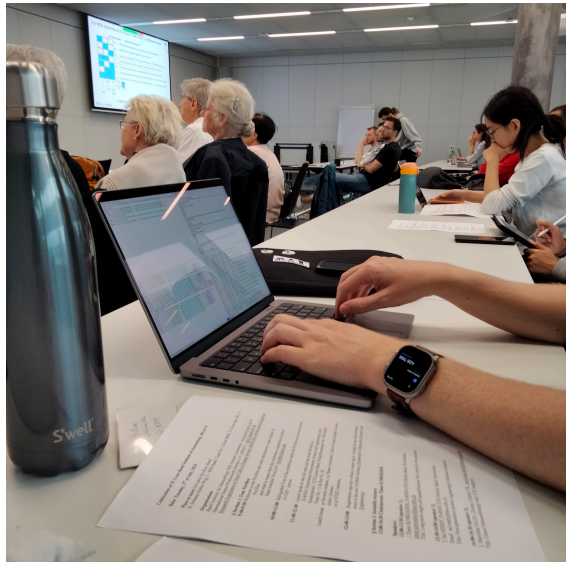
1. ACT$^-$ => ACT$^+$ ciliated cells
2. CC10 $^+$dull, SpC$^+$ => CC10$^+$bright, SpC$^-$ club cells at terminal bronchiole
3. => CC10$^-$, SpC$^+$ pneumocyte type II cells in different lung regions

Q: Searching for air?
Q: Does this reflect the air-trophic nature of this cell line?





16:00-16:30 (speaker 6),
Una CHEN, ispiev@gmx.de
Title: How much do we know about the mouse respiratory epithelial stem cells?
Characterization of a doxycycline-regulated multi-lineage mouse respiratory epithelial precursor cell line *in vitro* and *in vivo.*



Jose Pedro LOUREIRO

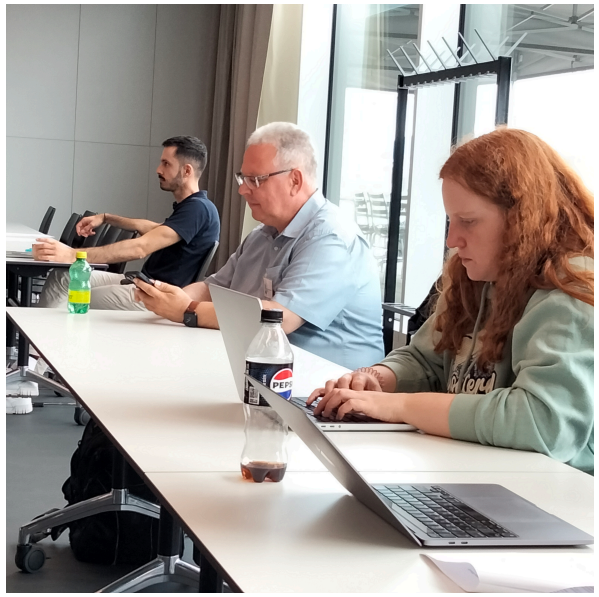








Lena ANGMAN









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Christoph HEUSSER

Coffee Break
(14:30-15:00)

17:00-18:00
§ Section-3: Round Table Discussion,
Chairperson: Sefik ALKAN,
Alkan Consulting LLC, Basel, Switzerland, sefik.alkan@gmail.com

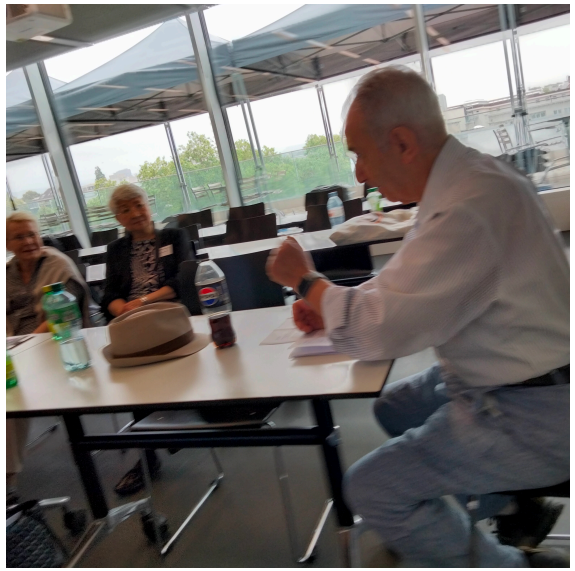
Topic 1: "What do I remember-like the best about Bii when I worked there" with a short briefing of the date of birth (10th of June, 1971) and closing year (2000) of BII (2-5 minutes) by the chairperson.

https://go.gale.com/ps/i.do?id=GALE%7CA76967369&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=00368075&p=AONE&sw=w&userGroupName=anon%7E5ea24319&aty=open-web-entry

Topic 2: “My life, my scientific work, my experience at & after the BII time, to share”











Jacqueline SAMARIDIS **Patricia RIEGERT**

18:00-18:10

Closing remark: Una CHEN, ispiev@gmx.de







Pictures of Bii building, taken by Hans-Joachim Wallny on 01.07.2024


20001
BRUNNER MULDEN
061 411 03 33


MULDEN
03 33
Allmendstrasse
31
Claraplatz
Bachgraben
38
Claraplatz
Bachgraben

Take home lesen:

Bii => Biie

1. A new building of ETHZB to be started in 2025 (?)
2. Next bii-at-60 / biie-at-1 celebration symposium to be in the new building in 2031(?)