

34th Pezcoller Symposium

June 19–20, 2023

University of Trento, Auditorium of Humanities Department
Via Tommaso Gar, 14, Trento

*New technologies for studying
and treating cancer*

Moderators:

Kaelin William G. (2019 Nobel Laureate)

Ambrogio Chiara

Bardelli Alberto

Bonini Chiara

Del Sal Giannino

Demichelis Francesca

Draetta Giulio

Loda Massimo

Piccolo Stefano

Schulman Brenda A.



Day 1 – Monday, June 19, 2023

Central European Summer Time (CEST)

8.00 *Registration*

8.30 *Welcome* Enzo Galligioni

8.40 *Focus and Goals* William G. Kaelin

8.50 *Moderator:* Giulio Draetta

The David Livingston Lecture

*“Micromapping: A new approach to
mapping of intra- and extracellular
microenvironments.”*

David W. MacMillan, Ph.D. (2021 Nobel Laureate)

(Princeton University)

9:30 *Discussion*

9.45 *“Inspiration from Nature on Drugging
“Undruggable” Targets”*

Gregory Verdine, Ph.D.

(Harvard University)

10.10 *Discussion*

10.25 *Coffee break & poster exhibition*

10.40 *Moderator:* Francesca Demichelis

*“Integrating Genomics and Computation
for Cancer Target and Drug Discovery”*

Xiaole Shirley Liu, Ph.D

(GV20 Therapeutics)

11.05 *Discussion*

11.20 *“Machine learning for identifying*

*translatable biomarkers and targets
in oncology”*

Daphne Koller, Ph.D. (Insitro, Inc.)

11.45 *Discussion*

12.00 *“The power of ONE: Immunology in the
age of single cell genomics”*

Ido Amit, Ph.D.

(Weizmann Institute of Science)

12.25 *Discussion*

12.40 *Lunch & poster exhibition*

14.20 *Moderator:* Chiara Ambrogio

“Ubiquitin ligases and signaling”

Brenda A. Schulman, Ph.D.

(Max Planck Institute of Biochemistry)

14.45 *Discussion*

15.00 *“Single cell spatial proteomics:
Technology and applications to oncology”*

Matthias Mann, Ph.D.

(Max Planck Institute of Biochemistry)

15.25 *Discussion*

15.40 *Moderator:* Giannino Del Sal

*“Illuminating dark proteome-mediated
transcriptional control in cancer by live-
cell single-molecule imaging”*

Shasha Chong, Ph.D.

(California Institute of Technology)

16.05 *Discussion*

16.20 *"Fighting cancer via identification and characterization of molecular glue degraders"*

Georg Winter, Ph.D.

(CeMM- Research Center for Molecular Medicine of the Austrian Academy of Sciences)

16.45 Discussion

17.00 Moderator: William G. Kaelin

Career Development Panel Discussion

17.45 END OF DAY 1

20.00 Symposium dinner, at Grand Hotel Trento

Day 2 – Tuesday, June 20, 2023

Central European Summer Time (CEST)

8.30 Moderator: Alberto Bardelli

*The Enrico Mihich Lecture
"Updates with CAR T cells"*

Carl H. June, M.D.

(Parker Institute for Cancer Immunotherapy at the University of Pennsylvania)

9.10 Discussion

9.25 *"NK cell engineering for cancer immunotherapy"*

Katy Rezvani, M.D., Ph.D.

(MD Anderson Cancer Center)

9.50 Discussion

10.05 *"Targeting KRAS mutants using covalent chemistry and the immune system"*

Kevan Shokat, Ph.D.

(University of California, San Francisco)

10.30 Discussion

10.45 Coffee break & poster exhibition

11.00 Moderator: Chiara Bonini

"Engineering next-generation tumoroids for precision medicine"

Matthias Lütolf, Ph.D.

(EPFL)

11.25 Discussion

11.40 *"Spatially resolved single-cell genomics & cell atlas of the brain"*

Xiaowei Zhuang, Ph.D.

(Harvard University)

12.05 Discussion

12.20 Lunch & poster exhibition

13.20 Moderator: Massimo Loda

Maria Begnudelli Awards: oral talks of the 3 best poster presenters

14.20 Moderator: Stefano Piccolo

"Resolving variant effects at scale with Saturation Genome Editing"

Greg Findlay, Ph.D., M.D.

(The Francis Crick Institute)

14.45 Discussion

15.00 *"Where Does He Get Those Wonderful Toys? A Tour of the Functional Genomics Toolbox"*

John Doench, Ph.D.

(Broad Institute of MIT and Harvard)

15.25 Discussion

15.40 *"Early detection of cancer using cell-free DNA fragmentomes"*

Victor E. Velculescu, M.D., Ph.D.

(Johns Hopkins University School of Medicine)

16.05 Discussion

16.20 Moderator: Brenda A. Schulman

"New Approaches for Finding Tiny Tumors: Towards Early Detection, Intervention, and Treatment of Ovarian Cancer"

Angela M. Belcher, Ph.D.

(Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology)

16:45 Discussion

17.00 *"Using chemistry to find new cancer targets"*

Deepak Nijhawan, M.D., Ph.D.

(UT Southwestern Medical Center, Harold C. Simmons Comprehensive Cancer Center)

17:25 Discussion

17.40 Closing remarks