

36th PEZCOLLER SYMPOSIUM

PROGRAM

June 23-24, 2025

Trento, Italy

Humanities Department, University of Trento (via Tommaso Gar 14)

Studying and Treating Cancer in the Digital Era

Chairman: Kaelin William G. (2019 Nobel Laureate)

Moderators:

Alberto Bardelli

Chiara Bonini

Giannino Del Sal

Francesca Demichelis

Massimo Loda

Stefano Piccolo

Brenda A. Schulman

Day 1 - Monday, June 23, 2025

7.45 **Registration**

8.30 **Welcome:** Enzo Galligioni

8.40 **Focus and Goals:** William G. Kaelin

8.50 **Moderator:** Alberto Bardelli SESSION 1

David Livingstone Keynote Lecture

**"Therapeutic discovery
in the Digital Era"**

William R. Sellers, MD

Broad Institute of MIT and Harvard

9.30 Discussion

9.45 **"Harnessing multi-modal data
to predict tumor progression
and treatment response"**

Christina Curtis, PhD

Stanford University

10.10 Discussion

10.25 Coffee break and poster exhibition

10.55 **Moderator:** Brenda A. Schulman SESSION 2

**"Data science approaches to uncovering
cancer mechanisms and computational
discovery of ligands to target them"**

M. Madan Babu, PhD

St. Jude Children Research Hospital

11.20 Discussion

11.35 **"Insights from images: applying
microscopy and AI to drug discovery
in oncology and beyond"**

Anne Carpenter, PhD

Broad Institute of MIT and Harvard

12.00 Discussion

12.15 **Leveraging Single-Cell Technologies
to Engineer the Immune System**

Ido Amit, PhD

Weizmann Institute of Science (Israel)

12.40 Discussion

12.55 Lunch and poster exhibition

14.25 **EACR-AACR-Mark Foundation
Travel Grants**

14.30 **Moderator:** Giannino Del Sal SESSION 3

**"Hypothesis-driven data-heavy
computations exploit germline-somatic
liaisons for the understanding
of cancer evolution"**

Francesca Demichelis, PhD

CIBIO, University of Trento

14.50 Discussion

15.05 ***"Origins of somatic de novo chromosome rearrangements unveiled by systematically coupling imaging and genomics"***

Jan O. Korbel, PhD

European Molecular Biology Laboratory,
Heidelberg

15.30 Discussion

15.45 Cookie break and poster exhibition

16.05 Moderator: Chiara Bonini

SESSION 4

"AI and Data Science in Cancer Imaging"

Maryellen L. Giger, PhD

University of Chicago

16.30 Discussion

16.45 Moderator: William G. Kaelin

Career Development Panel Discussion

17.30 END OF DAY 1

19.30 SOCIAL DINNER

Day 2 - Tuesday, June 24, 2025

8.30 Moderator: Stefano Piccolo

SESSION 1

Enrico Mihich Keynote Lecture

***"Where Form Meets Function:
Decoding Tissue Architecture"***

Dana Pe'er, PhD

Memorial Sloan Kettering Cancer Center

9.10 Discussion

9.25 ***"Beyond RWE and clinical applications:
large foundation models
in cancer biology research"***

Carlo B. Bifulco, MD

Providence Genomics, Oregon

9.50 Discussion

10.05 ***"AI for Precision Medicine: development
and discovery of computational
biomarkers for oncology and beyond"***

Francesco Ciompi, PhD

Radboud University, Nijmegen

10.30 Discussion

10.45 Coffee break and poster exhibition

11.15 Moderator: Massimo Loda

SESSION 2

***"Multimodal, generative
and agentic AI for oncology"***

Faisal Mahmood, PhD

Massachusetts General Hospital,
Brigham and Women's Hospital

11.40 Discussion

11.55 ***"AI-Powered Pathology: scaling precision
cancer diagnostics in the Digital Age"***

Andrew H. Beck, MD, PhD

PathAI, Boston

12.20 Discussion

12.35 Lunch and poster exhibition

14.05 Moderator: Massimo Loda

***Pezcoller Awards and EACR, AACR,
The Mark Foundation Awards
4 Best Poster Lectures***

15.15 Moderator: Francesca Demichelis

SESSION 3

"AI for enabling precision car"

Suchi Saria, PhD

John Hopkins University

15.40 Discussion

15.55 ***"Enhancing precision cancer medicine
with biologically guided
artificial intelligence"***

Eliezer M. Van Allen, MD

Harvard Medical School

16.20 Discussion

16.35 ***"Automating scientific discovery
and hypothesis generation
with language model agents"***

Andrew D. White, PhD

University of Rochester

17.00 Discussion

17.15 EMBO Poster Prize

17.20 Closing Remarks: William G. Kaelin

17.30 END OF DAY 2