

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"**

Christine 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 - Monday, 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
3 Best Poster Lectures**

15.00 Moderator: Francesca Demichelis

SESSION 3

“AI for enabling precision car”

Suchi Saria, PhD

John Hopkins University

15.25 Discussion

**15.40 “Enhancing precision cancer medicine
with biologically guided
artificial intelligence”**

Eliezer M. Van Allen, MD

Harvard Medical School

16.05 Discussion

**16.20 “Automating scientific discovery
and hypothesis generation
with language model agents”**

Andrew D. White, PhD

University of Rochester

16.45 Discussion

17.00 Closing Remarks: William G. Kaelin

17.10 END OF DAY 2