

# 36<sup>th</sup> 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 Livingston Keynote Lecture**

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

**William R. Sellers, MD**

Broad Institute of MIT and Harvard

9.30 Discussion

9.45 **"Modeling malignancy across  
scales: from virtual tumors  
to predictive oncology"**

**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. Korbelt, 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

**“Accelerating safe and effective  
AI use at the point of care”**

**Suchi Saria, PhD**

Johns 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