The Pezcoller Foundation

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 Bardellli   *Francesca Demichelis*   *Stefano Piccolo*
Chiara Bonini   *Massimo Loda*   *Brenda A. Schulman*
Giannino Del Sal

Day 1 - Monday, June 23, 2025

7.45 *Registration*

8.30 *Welcome:* Enzo Galligioni

8.40 *Focus and Goals*

8.50 *Moderator:* Alberto Bardellli   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 *"The Power of ONE: immunology in the Age of single cell genomics"*
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

"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

Enrico Mihich Keynote Lecture

"The Role of plasticity in tissue remodeling and tumor progression"

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

"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

"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