

Epigenetics and Epigenomics in Health and Disease

17-19 November 2022, Brussels

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Scientific organiser:



François Fuks,
Laboratory of Cancer Epigenetics &
ULB-Cancer Research Center (U-CRC),
**ULB – Free University of Brussels &
Bordet Institute**

www.precisionmedicineforum.com

2022 SPEAKERS



Karen Adelman
Department of Biological
Chemistry and Molecular
Pharmacology
Harvard Medical School, USA



Salvador Aznar Benitah,
PhD, ICREA
Stem Cells and Cancer Lab
*Institute for Research
in Biomedicine (IRB Barcelona)*



Shelley L. Berger, PhD
Daniel S. Och University
*Director, Epigenetics Institute
University of Pennsylvania, USA*



Anne Brunet, Ph.D.
*Michele and Timothy Barakett
of Genetics, Stanford University
School of Medicine, USA*



Giacomo Cavalli
Chromatin and Cell Biology lab,
Institute of Human Genetics –
CNRS
Montpellier, France



Danette L. Daniels,



Yael David, Ph.D.
Chemical Biology Program
*Memorial Sloan Kettering Cancer
Center, USA*



Mark Dawson Professor
Cancer Epigenetics Laboratory
*Peter MacCallum Cancer Centre,
Melbourne, Australia*



Luciano Di Croce,
CRG & ICREA
Barcelona, Spain



Michaela Frye
*German Cancer Research Centre,
Heidelberg, Germany*



Richard Gregory
Investigator,
The Stem Cell Program,
Boston Children's Hospital, USA



Chuan He
The University of Chicago , USA



Kristian Helin
The Institute of Cancer Research, UK



Cigall Kadoch, PhD
*Dana-Farber Cancer Institute and
Harvard Medical School, USA*



Michael Kharas PhD
*Memorial Sloan Kettering
Cancer Center, USA*



Tony Kouzarides
Gurdon Institute
University of Cambridge, UK

2022 SPEAKERS



Rab Prinjha
Adaptive Immunity Research Unit
GSK, UK



Dr. Danny Reinberg
Howard Hughes Medical Institute
NYU Langone School of Medicine, USA



Anne Schaefer
Icahn School of Medicine
Mount Sinai, New York, USA



Andrea Schorn
Cold Spring Harbor Laboratory, New York, USA



Yang Shi,
C.H. Waddington of Pediatrics
Harvard Medical School, USA



Ramin Shiekhatter
Miami, USA



Dr Ali Shilatifard
Department of Biochemistry and
Molecular Genetics Director
Simpson Querrey Center for Epigenetics Northwestern University Feinberg School of Medicine, USA



Alexander Tarakhovsky
The Rockefeller University, USA



Rob Martienssen
HHMI
Cold Spring Harbor Laboratory, USA



Johnathan R. Whetstine, PhD
Fox Chase Cancer Center, Philadelphia, USA



DAY ONE Thursday November 17, 2022



8.45am
Conference Registration



9:00 – 9:15 am
Welcome
François Fuks

SESSION 1

Epigenetic Mechanisms and Diseases *Chair: Danette Daniels*

9:15 – 9:35 am

Epigenetic Pathways as Targets in Human Disease
Shelley Berger, Philadelphia, USA

9:35 – 9:55 am

Epigenetic control of neurodegeneration
Anne Schaefer, Cologne, Germany

9:55 – 10:15 am

Unveiling polycomb functions in stem cells and cancer
Luciano Di Croce, CRG, Barcelona, Spain

10:15 – 10:35 am

Role of integrators in human pathologies
Ramin Shiekhhattar, Miami, USA

10:35 – 11:05 am

Coffee Break

11:05 – 11:25 am

Uncovering Cancer-Associated Epigenetic Events Using Novel Chemical Tools
Yael David, Memorial Sloan Kettering Cancer Center, USA

11:25 – 11:35 am

Short Talk
TBD

11:35 – 11:55 pm

tRNA-derived small RNAs support genome stability during epigenetic reprogramming
Andrea Schorn, Cold Spring, USA

11:55 – 12:15 pm

Drawing on proteins disorder: how viruses impact chromatin function
Sasha Tarakhovsky, NY, USA

12:30 – 2:00 pm

Lunch and Posters

SESSION 2

Chromatin Dysregulations in Human Disorders *Chair: Karen Adelman*

2:00 – 2:20 pm

Company presentations
TBD

2:20 – 2:40 pm

Epigenetics: One Genome, Multiple Phenotypes
Danny Reinberg, NYU, USA

2:40 – 3:00 pm

BAF Complex Structure and Function in Human diseases
Cigall Kadoch, Harvard, USA

3:00 – 3:10 pm

Short Talk
TBD

3:10 – 3:40 pm

Coffee Break

3:40 – 4:00 pm

Company presentations
TBD

4:00 – 4:20 pm

Epigenetics as a Gatekeeper to DNA Replication and Amplification
Johnathan R. Whetstone, Harvard, USA

4:20 – 4:30 pm

Short Talk
TBD

4.30 – 4.50 pm

Principles of Epigenetics and Chromatin in Development and Human Disease
Ali Shilatifard, Chicago, USA

Friday November 18, 2022

DAY TWO



8.45am

Conference Registration

SESSION 3

RNA modifications

Chair: Johnathan R. Whetstine

9:00 – 9:20 am

Reversible RNA methylation in gene expression regulation

Chuan He, Chicago, USA

9:20 – 9:40 am

Modifications of RNA: Their Function and Role in Cancer

Tony Kouzarides, Cambridge, UK

9:40 – 10:00 am

Gene Expression Regulation by RNA Methylation

Michael G Kharas, Memorial Sloan Kettering Cancer Center, USA

10:00 – 10:20 am

Pseudouridylation of germline small RNA

Rob Martienssen, Cold Spring, USA

10:20 – 10:50 am

Coffee Break

10:50 – 11:10 am

Role of RNA modifications in gene expression and cancer

Richard Gregory, Boston Children's Hospital, USA

11:10 – 11:20 am

Short Talk

TBD

11:20 – 11:40 pm

Targeting RNA modifications in cancer

Michaela Frye, Heidelberg, Germany

12:00 – 1:30 pm

Lunch and Posters

SESSION 4

Mechanisms of Epigenetic Signaling

Chair: Luciano Di Croce

1:30 – 1:50 pm

Company presentations

TBD

1:50 – 2:10 pm

Probing Transcription Regulation at Enhancers

Karen Adelman, Harvard, USA

2:10 – 2:20 pm

Short Talk

TBD

2:20 – 2:40 pm

Epigenetic mechanisms in metastasis

Salvador Aznar Benitah, Barcelona, Spain

2:40 – 2:50 pm

Short Talk

TBD

2:50 – 3:20 pm

Coffee Break

3:20 – 3:40 pm

Company presentations

TBD

3:40 – 4:00 pm

Epigenetic Regulation of Longevity

Anne Brunet, Stanford, USA

4:00 – 4:20 pm

Multiscale 4D genome organization in differentiation and development

Giacomo Cavalli, Montpellier, France

4:30 – 6:30 pm

Free time

7:30 pm

CONFERENCE EVENT



DAY THREE

Saturday November 19, 2022

SESSION 5

Novel Therapeutic Discoveries in Epigenetics

Chair: Richard Gregory

9:30 – 9:50 am

Role of Polycomb in human diseases

Kristian Helin, ICR, UK

9:50 – 10:10 am

Identification of novel epigenetic therapeutic targets

Yang Shi, Oxford, UK

10:10 – 10:20 pm

Short Talk

TBD

10:25 – 10:45 am

Challenges and Opportunities with Epigenetic Therapies

Mark Dawson, Melbourne, AUS

10:45 – 11:15 am

Coffee Break

11:15 – 11:35 am

Company presentations

TBD

11:35 – 11:55 am

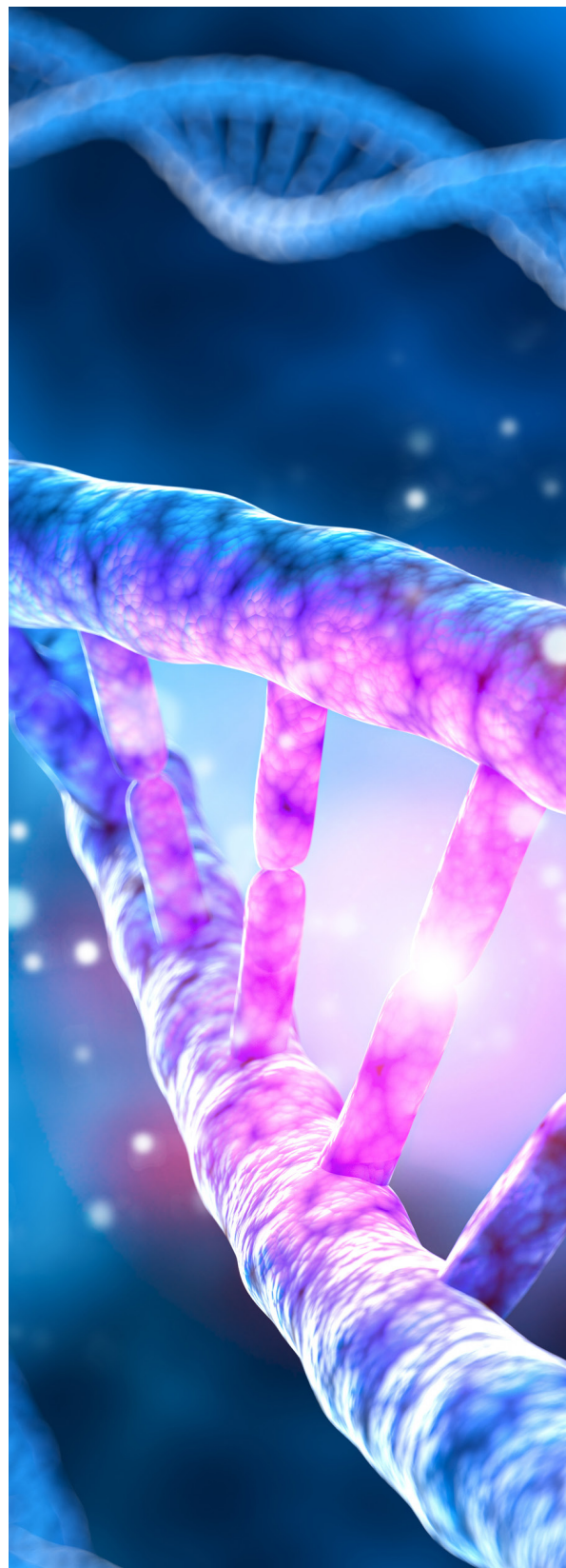
Understanding the Functional Pathway of BET Family Degradation Compounds

Danette Daniels

11:55 – 12:15 pm

Epigenetic Targets for the Treatment of Human Diseases

Rab Prinjah, GSK, UK



Precision Medicine Forum Conference on "Epigenetics and Epigenomics in Health and Disease" in partnership with ULB/Bordet (Brussels)



THE THREE DAY CONFERENCE WILL



Present the most cutting-edge results regarding epigenetic dysregulation in cancer, and discuss how to efficiently transfer new knowledge into clinical practice;



Integrate results from different disciplines, fields and model systems, as well as innovative technological approaches (e.g., omics-based) to present new ideas that challenge existing paradigms;



Foster collaborations by providing a setting conducive to collegial interactions among scientists with broad interests at the interface of epigenetics, human health and cancer, including engagement with industrial partners interested in targeting cancer.

SUBMIT AN ABSTRACT AND REGISTER TODAY

Guidelines for the abstract structure

- The acceptable word range for the abstract is 175 – 275 words.
- Your submission should be in English.
- Please send in a brief biography together with the Abstract.

☐ Short talk speakers will be chosen from all abstracts submitted by the abstract deadline.
Please TICK the box if you are interested in presenting



Deadlines:

- Abstract submission - 15th of September 2022 – please submit via email to liz@precisionmedicineforum.com
- Register and submit your poster by 15th of September 2022 to register www.precisionmedicineforum.com



Discounted Registration Fees

Industry: Standard Rate: €800

Early Bird 1

Expires 1st July 2022 €600

Early Bird 2

Ends 1st September 2022 €700

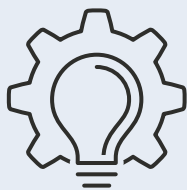
Academic/Healthcare: Standard Rate: €300

Early Bird 1

Expires 1st July 2022 €150

Early Bird 2

Ends 1st September 2022 €200

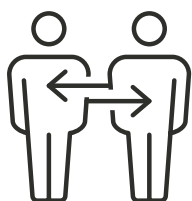


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Early Bird 1

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Ends 1st September 2022 €200

FEE INCLUDES

- Conference Pass giving access to all sessions, posters etc
- Delegate Programme
- Buffet lunch, snacks and refreshments throughout the conference
- Conference closing party



REGISTRATION

To register please visit
www.precisionmedicineforum.com
or email
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VENUE

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