

6TH

EDITION

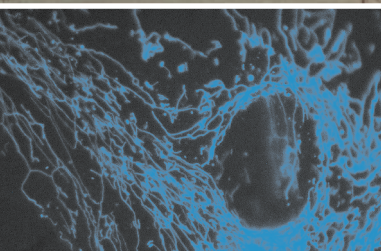


METABOLISM & CANCER

CONVENTION CENTER - LA GRANDE-MOTTE, FRANCE



OCTOBER
8th - 10th
2025



- HOST METABOLIC REPROGRAMMING
- STEM CELLS AND METABOLISM
- METABOLISM-DRIVEN EPIGENETICS/EPITRANSCRIPTOMICS
- METABOLIC CONTROL OF DRUG RESISTANCE, THERAPY AND BIOMARKERS

SCIENTIFIC PROGRAM

WWW.METABOLISM-CANCER.COM

INVITED SPEAKERS

Ilaria ELIA

Catholic University of Leuven, Belgium

Michaela FRYE

DKFZ, Heidelberg, Germany

François FUKS

ULB, Bruxelles, Belgium

Filipe Gomes CABREIRA

CECAD, Germany

Laura GREAVES

Newcastle University, Newcastle, United-Kingdom

Marcia HAIGIS

Harvard Medical School, Boston, United States

Felix HARTMANN

DKFZ, Heidelberg, Germany

Estelle LETELLIER

University of Luxembourg, Luxembourg

Emmanuelle PASSEGUE

Columbia University, New-York City, United States

Jean-Ehrland RICCI

C3M, Nice, France

Maria ROHM

Helmholtz, Munich, Germany

Raphael RODRIGUEZ

Institut Curie, Paris, France

Sara SDLECI

IRB, Barcelona, Spain

Saverio TARDITO

Med University Vienna, Austria

Matthew VAN DEN HEIDEN

Koch Institute, Cambridge, United States

SCIENTIFIC COMMITTEE

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IRCM, Montpellier

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CRCM, Marseille



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MAIN TOPICS

- HOST METABOLIC REPROGRAMMING
- STEM CELLS AND METABOLISM
- METABOLISM-DRIVEN EPIGENETICS /
EPITRANSCRIPTOMICS
- METABOLIC CONTROL OF DRUG RESISTANCE,
THERAPY AND BIOMARKERS



13:15 Opening and introduction

13:30 Lessons learned studying Mitochondria and Cancer.
Marcia HAIGIS, *Harvard Medical School, Boston, United States*

14:10 **SESSION I -** 15:30 **Diet, cachexia, microbiome, and microenvironnement**

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**LA LIGUE
 CONTRE
 LE CANCER**

14:10 A metabolite from the cancer associated microbiota regulates chemotherapy.
Filipe Gomes CABREIRA, *CECAD, Germany*

14:30 The gut–tumor connection: microbiome control of cancer metabolism.
Estelle LETELLIER, *University of Luxembourg, Luxembourg*

14:50 Environmental asparagine directs metastatic organotropism in prostate cancer through N-Glycosylation of cell-adhesion molecules.
Erika PRANZINI, *University of Florence, Italy*

15:05 Acetyl-CoA metabolism integrates nutritional cues to the nucleus to promote pancreatic carcinogenesis.
Alessandro CARRE, *VIMM, Padova, Italy*

15:20 Hyperpolarized MRI Agents: Visualize Cancer Metabolism – As It Happens. **Simon BENNETT**, *NVision Imaging Technologies*

N VISION

15:30 Coffee break & Exhibition visit

16:15 **SESSION I -** 18:00 **Diet, cachexia, microbiome, and microenvironnement**

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**LA LIGUE
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 LE CANCER**

16:15 Multi-omics identifies tissue overarching metabolic adaptations to cancer in cachexia. **Maria ROHM**, *Helmholtz, Munich, Germany*

16:35 3-hydroxykynurenine fuels mitochondrial flexibility and metabolic escape in acute myeloid leukemia drug tolerant persisters. **Camille LAISNEY**, *CRCT, Toulouse*

16:50 Turning Vitamin Metabolism Against Glioblastoma on Steroid.
Saverio TARDITO, *Med University Vienna, Austria*

17:10 Targeting the lipid metabolism of alveolar type II cells decreases lung metastasis.
Liu Xiao-ZENG, *VIB, Leuven, Belgium*

17:25 The ATF5-dependent mitochondrial unfolded protein response coordinates oncogenic fate. **Jerry CHIPUK**, *Mount Sinai, New-York City, United States*

17:45 Presentation of the social network “Medikka”.

18:00 Welcome cocktail

21:00 POSTER SESSION 1

PROGRAM

Thursday October 9th 2025

09:00
10:15

SESSION 2 - Stem cells and metabolic plasticity

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09:00 Glutamine addiction is a therapeutic target to block emergency myelopoiesis.
Emmanuelle PASSEGUE, *Columbia University, New-York City, United States*

09:40 Chemical control of cell adaptation.
Raphael RODRIGUEZ, *Institut Curie, Paris, France*

10:00 Lipid transfer mediated by PPAR- δ between adipocytes and cancer stem cells enhances pancreatic cancer aggressiveness.
Alba ROYO-GARCIA, *IISA, Zaragoza, Spain*

10:15 Coffee break & Exhibition visit

11:00
12:05

SESSION 2 - Stem cells and metabolic plasticity

sponsored by



11:00 Do mitochondrial DNA mutations play a functional role in colorectal cancer pathogenesis? **Laura GREAVES**, *Newcastle University, Newcastle, United-Kingdom*

11:20 Characterization of PDK1+ intestinal stem cell plasticity and metabolic heterogeneity during tumorigenesis, metastasis and therapy resistance.
Lisa Maria POELTL, *University of Barcelona, Spain*

11:35 Flash talks Teaser posters

12:00 From Sorting to Function:
How MACSQuant Tyto Enables Reliable Metabolic Research
Sébastien MILESI, *Miltenyi*



12:10 Lunch break & Exhibition visit

13:15 Meet the editor session

14:00 POSTER SESSION 2

16:00
17:45

SESSION 3 - Epigenetics, epitranscriptomics and metabolism

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16:00 RNA modifications in Health and Disease. **François FUKS**, *ULB, Bruxelles, Belgium*

16:20 Targeting RNA modifications in cancer. **Michaela FRYE**, *DKFZ, Heidelberg, Germany*

16:40 tRNA wobble editing controls FSP1 expression and dictates ferroptosis sensitivity in lung cancer. **Arnaud BLOMME**, *GIGA, Liège, Belgium*

16:55 Pioneering Cancer Therapy Through Microbiota-derived Metabolites and Synthetic Analogues. **Alexandre DAVID**, *IRCM, Montpellier, France*

17:10 Nuclear Metabolism Shapes Chromatin Function.
Sara SDLECI, *IRB, Barcelona, Spain*

17:30 Epigenetic control of metabolic identity across cell types.
Thomas SAUTER, *University of Luxembourg, Luxembourg*

18:30 Buses departure for the gala dinner (registration required)

19:00 Gala dinner at the Domaine Fangouse

PROGRAM

Friday October 10th 2025

09:00

10:20

SESSION 4 -

**Metabolic control of drug resistance,
therapy and biomarkers**

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09:00

Targeting PINK1-driven mitophagy disrupts tumorigenesis and Kras-driven therapy resistance in lung cancer.

Jean-Ehrland RICCI, *C3M, Nice, France*

09:20

Spatial Proteomics Relates Metabolic T Cell Flexibility to Successful Cancer Immunotherapy.

Felix HARTMANN, *DKFZ, Heidelberg, Germany*

09:40

Unraveling MELK signaling to target melanoma therapy resistance.

Ana Carolina BASTOS SANT'ANNA SILVA, *C3M, Nice, France*

09:55

Single enzyme activity defines response to select folate-cycle targeting drugs in osteosarcoma.

Fiona FARNHAMMER, *UTH, Zurich, Switzerland*

10:10

Unraveling the Role of Metabolism in Cancer with Multiplexed Proteomics.

Nicolas ORTEGA-LINARD, *Ph.D - Standard Biotools*



10:20

Coffee break & Exhibition visit

11:00

12:30

SESSION 4 -

**Metabolic control of drug resistance,
therapy and biomarkers**

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11:00

Understanding the metabolic cross-talk between cancer and T cells in metastatic melanoma.

Ilaria ELIA, *Catholic University of Leuven, Belgium*

11:20

The extracellular matrix drives guanylate production and protects pancreatic cancer cells from oxaliplatin-induced DNA damage.

Georgios EFTHYMIU, *CRCM, Marseille, France*

11:35

Multimic integration reveals intertumoral heterogeneity of lipid dependence in lethal pediatric medulloblastoma.

Flavia BERNADI, *Institut Curie, Paris, France*

11:50

Influence of the nutrient environment on cancer progression.

Matthew VAN DEN HEIDEN, *Koch Institute, Cambridge, United States*

12:30

Closing remarks & end of the meeting



AKNOWLEDGEMENT

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CONGRESS DINNER

October 9th 2025 - From 7.00 pm

At Domaine Fangouse

Mas Fangouse, 34970 Lattes

SHUTTLES ARE AVAILABLE BY REGISTRATION ONLY.

FOR MORE INFORMATION, PLEASE VISIT THE WELCOME DESK

PLACE ARE LIMITED.

NOT REGISTERED YET? JOIN US **AT THE WELCOME DESK.**



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