

# Cancer Biomechanics: Exploring the Physical Forces Driving Tumor Progression



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**Friday, March 14, 2025**

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12 rue Lhomond - Paris 5<sup>e</sup>



## Program: 09.15 - 17.10

09.15 - 09.30

Introduction

09.10 - 09.15

Manuel RODRIGUES, President of the Société Française du Cancer

09.15 - 09.20

Danijela MATIC VIGNJEVIC, Institut Curie, France

09.20 - 09.30

Annick HAREL-BELLAN: Who was Louise Harel?

09.30 - 12.45

Session 1 (chair: Danijela MATIC VIGNJEVIC)

09.30 - 10.20

**Valerie WEAVER**, UCSF, USA - Keynote Speaker

*"Tissue tension drives inflammation and malignancy by increasing mutational load through lipid-peroxidation-mediated DNA damage"*

10.20 - 11.00

**Xavier TREPAT**, IBEC, Spain

*"Mechanobiology of the immunocompetent tumor ecosystem"*

11.00 - 11.20

Coffee Break

11.20 - 12.00

**Sara WICKSTRÖM**, MPI-Munster, Germany

*"Mechanisms and consequences of cancer heterogeneity"*

12.00 - 12.40

**Morgan DELARUE**, LAAS, France

*"Cell growth under mechanical pressures"*

12.40 - 14.00

Lunch

14.00 - 17.00

Session 2 (chair: Danijela MATIC VIGNJEVIC)

14.00 - 14.40

**Peter FRIEDL**, Radboud University, Nijmegen, The Netherlands

*"Cell mechanics during metastatic organ colonization"*

14.40 - 15.20

**Julie GUILLERMET**, CRCT, Toulouse, France

*"Exploring mechanically-induced oncogenic PI3K signalling in pancreatic cancer"*

15.20 - 15.40

Coffee Break

15.40 - 16.20

**Gilles DOLIVET**, ICL, Nancy, France

*"Intraoperative physical stress and metastatic spread"*

16.20 - 17.00

**Erik SAHAI**, The Francis Crick Institute, London, UK

*"The Biomechanics of Cancer Invasion"*

17.00 - 17.10

Conclusions Danijela MATIC VIGNJEVIC & Annick HAREL-BELLAN

Free but mandatory Registration (limited space):

<https://forms.gle/pVfSC8ZadUyqjcRm9> or by mail: [info@sfc.asso.fr](mailto:info@sfc.asso.fr)

*Lunch is provided*

You can support the Société Française du Cancer: <https://sfc.asso.fr/adhesion-a-la-sfc/>



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