



## Eventos Internacionais

Workshop e Mini Cursos Capes PrInt

### PROGNOSTIC BIOMARKERS AND THERAPEUTIC TARGETS IN ONCOLOGY

Dr. Frank Slack

Harvard University

Dr. Ganging Liang

University of Southern California,

Dr. Jeremie Nsengimana

University of Newcastle - UK

26 FEV a 14 MAR 2024

Programação completa em anexo

Organização: Prof. Dra. Miriam Galvonas Jasiulionis

Laboratório de Epigenética – Departamento de Farmacologia – EPM / UNIFESP



Short course – CAPES PrInt  
Targeting Epigenetic Alterations in Cancer Treatment

**Dr. Gangning Liang**

Associate Professor and Director of Epigenetic Translational Research of USC Institute of Urology, Norris Comprehensive Cancer Center, University of Southern California, Los Angeles, US

When            **February 26, 27 and 28<sup>th</sup> (9h30 – 11h30)**

Where            Anfiteatro do Infar (Rua 3 de maio, 100, térreo)

Registration deadline February 15<sup>th</sup> (for Post-docs, Graduate, and Undergraduate students)

Content

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|----------------------|--|
| Feb 26 <sup>th</sup> | Class: “Epigenetic alteration in cancer”   |
| Feb 27 <sup>th</sup> | Class: “Epigenetic therapy in cancer”  |
| Feb 28 <sup>th</sup> | Lecture: ”Aqueous Humor Cell Free DNA Methylation Profiling is Highly Representative of Retinoblastoma Tumor: Future Application for Precision Medicine” |

## WORKSHOP

### Prognostic biomarkers and therapeutic targets in oncology

When March 4<sup>th</sup> (8h30 – 12h30)

Where Auditório Leitão da Cunha (Rua Botucatu, 720- Vila Clementino, São Paulo)

Registration deadline February 15<sup>th</sup> (for Post-docs, Graduate, and Undergraduate students)

#### Content

8H30 "TOWARDS MICRORNA THERAPEUTICS IN CANCER"

Speaker: Dr. Frank Slack

Beth Israel Deaconess Medical Center, Harvard Medical School. Boston, US

9H30 "SETD2 DEFICIENCY IS A THERAPEUTIC TARGET TO UPREGULATE VIRAL MIMICRY IN TREATING AGGRESSIVE KIDNEY CANCER"

Speaker: Dr. Ganging Liang

Norris Comprehensive Cancer Center, University of Southern California, Los Angeles, US

10H30 COFFEE BREAK

11H00 "PROGNOSTIC BIOMARKERS AND NEW DRUG TARGETS DISCOVERY IN PRIMARY MELANOMA"

Speaker: Dr. Jeremie Nsengimana

Faculty of Medical Sciences, University of Newcastle, Newcastle, UK

Short course – CAPES PrInt  
Non-coding RNAs and cancer

**Dr. Frank Slack**

Professor at Beth Israel Deaconess Medical Center, Department of Pathology, Harvard Medical School, Boston, US

When            **March 6, 7 and 8<sup>th</sup>** (9h30 – 11h30)

Where            Anfiteatro do Infar (Rua 3 de maio, 100, térreo)

Registration    deadline: February 15<sup>th</sup> (for post-docs, graduate, and undergraduate students)

Content

This course will discuss the field of non-coding RNAs (ncRNAs), with particular focus on their roles in the hallmarks of cancer. It will also discuss their potential use as diagnostic and prognostic markers of cancer, and the future of miRNA-based therapies in cancer.

This course will begin with an overview of the historical milestones that led to the discovery of non-coding RNAs, such as siRNAs, microRNAs, long non-coding RNAs and circular RNAs. We will then explore the biogenesis, functions of, and interactions between non-coding RNAs and how these interactions may lead to cancer. Further, we will discuss miRNAs and RNA-based therapy for clinical applications generally, and specifically the role of miRNA and cancer, including the challenge of drug delivery methods for RNA-based therapy, an overview of clinical trials and clinical implication of miRNAs for cancer and diseases, and the use of miRNA mimics and anti-miRs for personalized medicine.

## Short course – CAPES PrInt

### Introduction to biostatistics for basic and clinical research

**Dr. Jeremie Nsengimana**

Professor at Population Health Sciences Institute, Faculty of Medical Sciences, University of Newcastle, Newcastle, UK

When            **March 11 to 14<sup>th</sup>** (11, 13 and 14<sup>th</sup>: 9h30 – 12h; 12<sup>th</sup>: 14h – 16h30)

Where            Anfiteatro do Infar (Rua 3 de maio, 100, térreo)

Registration    deadline February 15<sup>th</sup> (for Post-docs, Graduate, and Undergraduate students)

#### Content

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|----------|--|
| Mar 11th | “Study design and descriptive analysis (concepts of random sampling, type of variables, defining a research question, summary graphs)<br><br>“Statistical inference and the most common statistical tests (introductory level, e.g. hypothesis testing, confidence intervals, t-test, chi2,...): |
| Mar 12th | “Correlation and linear regression (only concepts, very limited equations)”<br><br>“Variable transformation (e.g. to fulfil normality assumption)”<br><br>“Logistic regression (notion of odds ratio, extension of linear regression to general linear models)”                                  |
| Mar 13th | “Survival analysis (Kaplan-Meier curves, Cox proportional hazards regression)”<br><br>“Diagnostic tests (sensitivity, specificity, PPV, NPV, ROC analysis)”  |
| Mar 14th | “Power and sample size calculation”<br><br>“Principal components and cluster analysis (high dimensional data classification, disease subtyping, concept of machine learning)”  |

