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Scientific Program

4<sup>th</sup> International Congress on

# EPIGENETICS & CHROMATIN

September 03-05, 2018

London, UK



Exhibitors

diagenode  
Innovating Epigenetic Solutions

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Promega

# DAY-1

September 03, 2018

Meeting Hall: **Bleriot 1**

09:00-09:30 Registrations

*Opening Ceremony* ..... **09:30-09:55**

## KEYNOTE FORUM

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09:55-10:00 Introduction

10:00-10:40 **Title: DNA analogues for CRISPER/CAS fidelity and exon skipping**  
Marvin H Caruthers, University of Colorado, USA

10:40-11:20 **Title: Maternal exposure to environmental particles leads to transgenerational epigenetic transmission of asthma risk**  
Alexey V Fedulov, Alpert School of Medicine of Brown University - Rhode Island Hospital, USA

**Group Photo, Networking & Refreshments 11:20-11:50 @ Foyer**

11:50-12:15 **Title: ChIPmentation: An innovative technology for fast and high quality ChIP-seq**  
Anne Clémence Veillard, Diagenode, Belgium

**Sessions: Epigenetics | Cancer Epigenetics | DNA Methylation**

**Chair: Michelle M. Hanna**, Ribomed Biotechnologies, USA

**Co-Chair: Charles De Smet**, De Duve Institute - University of Louvain, Belgium

## INTRODUCTION

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12:15-12:40 **Title: Evaluating drug-chromatin interactions using novel methods for target engagement studies**  
Marta Rucka, Promega, UK

12:40-13:05 **Title: Targeting a lncRNA – epigenetic factor complex to inhibit colon cancer metabolism**  
Maria Hatziapostolou, Nottingham Trent University, UK

**Lunch Break 13:05-14:05 @ Hotel Restaurants**

14:05-14:30 **Title: Epigenetic regulation of leukemia**  
Andreas Lennartsson, Karolinska Institute, Sweden

14:30-14:55 **Title: Methylation pattern switch between low and high grade cervical intraepithelial neoplasia: implications for progression models, robust triage and cancer risk**  
Belinda Nedjai, Barts and the London School of Medicine and Dentistry - Queen Mary University, UK

14:55-15:20 **Special Session | Title: The genetics of common diseases**  
Kari Stefansson, deCODE Genetics, Iceland

15:20-15:45 **Title: Generation of long acting therapies using glycosylated linkers**  
Abdulrahman Alshehri, University of Sheffield, UK

15:45-16:10 **Title: Synergistic pharmacology: targeting two epigenetic enzyme targets in a protein complex**  
Sriram Raja Gopal, Jubilant Drug Discovery and Development Center, India

**Networking & Refreshments 16:10-16:30 @ Foyer**

16:30-16:55 **Title: Alterations of DNA methylation seem to be an early event in the development of tumors from the upper aerodigestive tract**  
Sheila Coelho Soares Lima, Brazilian National Cancer Institute, Brazil

16:55-17:20 **Title: Robust joint statistical tests for DNA methylation data**  
Xiaogang Steven Wang, York University, Canada

17:20-17:45 **Title: Role of DNA methylation in sperm nuclear-encoded of oxidative phosphorylation pathway regulation and embryo development**  
Mahmoud Hashemitabar, Ahvaz Jundishapur University of Medical Sciences, Iran

## Panel Discussion

# DAY-2

September 04, 2018  
Meeting Hall: **Bleriot 1**

## KEYNOTE FORUM

10:05-10:45 **Title: Simultaneous measurement of MGMT methylation and determination of IDH1 R132H and CpG Island Methylator Phenotype (CIMP) in Gliomas using Coupled Absorption PCR Signaling (CAPS)**  
Michelle M. Hanna, Ribomed Biotechnologies, USA

10:45-11:25 **Title: The histone H3K79 methyltransferase DOT1L regulates gene transcription and promotes neuroblastoma tumorigenesis**  
Tao Liu, Histone Modification Group Children's Cancer Institute, Australia

**Networking & Refreshments 11:25 -11:45 @ Foyer**

11:45-12:05 **Title: Identification of DNA methylation of distal regulatory regions with causal effect on tumorigenesis**  
Jiangwen Zhang, University of Hong Kong, Hong Kong

Sessions: Epigenetics | Chromatin

**Chair:** Marvin H Caruthers, University of Colorado, USA

**Co-Chair:** Xiaogang Steven Wang, York University, Canada

## INTRODUCTION

**12:25-12:50** **Title:** The centenarian epigenome: DNA methylation and chromatin formation of the oldest old  
Danielle Gutman, University of Haifa, Israel

**12:50-13:15** **Title:** Activation of epigenetics pass way for improving traits in different cultivars  
Avner Shenfeld, Epigenetics Ltd, Israel

**Lunch Break 13:15-14:15 @ Hotel Restaurants**

**14:15-14:40** **Title:** Epigenetic editing in the promoter of CXCL11 gene  
Alexey V. Fedulov, Brown University, USA

**14:40-15:05** **Title:** Transcriptional regulation by histone modifications using yeast model  
Jung Shin Lee, Kangwon National University, South Korea

## POSTER PRESENTATIONS 15:05–16:05

**Poster Judge:** Charles De Smet, De Duve Institute - University of Louvain, Belgium

**EC01** **Title:** Valproic acid effects on DNA methylation during the cell cycle of HeLa cells  
Marina Amorim Rocha, University of Campinas, Brazil

**EC02** **Title:** Writing about epigenetics for allied health professionals in gerontology  
Celia Mary Ross, Delaware Gerontology Institute, LLC, USA

**EC03** **Title:** Role of DNA methylation in resistance to platinum-based chemotherapy in ovarian cancer cells  
Marcela Chmelarova, University Hospital Hradec Kralove, Czech Republic

**EC04** **Title:** Heterogeneity, phenotypic and genotypic instability of the primary tumor and its metastasis  
Nawel Agher, University Hospital of Sidi Bel Abbés, Algeria

**EC05** **Title:** Doxorubicin induces large-scale histone redistribution in live cells  
Péter Nánási, University of Debrecen, Hungary

**EC06** **Title:** H2A.Z: stable or not stable that is the question  
László Imre, University of Debrecen, Hungary

**EC07** **Title:** Metastasis-associated protein 2 (MTA2) as a regulator of NF-κB in lung cancer  
Nefertiti El-Nikhely, Institute of Graduate Studies and Research, Alexandria University, Egypt

**EC08** **Title:** Emerging role of histone Lysine Methyltransferase SETDB1 and repressive histone marks H3K9me3, H4K20me3, H3K4me3 in pediatric brain tumors  
Alexia Klonou, Kapodistrian University of Athens Medical School, Greece

**Networking & Refreshments 16:05-16:25 @ Foyer**

## Panel Discussion

# DAY-3

September 05, 2018

Meeting Hall: **Bleriot 1**

## KEYNOTE FORUM

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- 10:05-10:45** **Title:** Transcriptional overlap links DNA hypo-methylation and hyper-methylation of contiguous promoters in cancer  
**Charles De Smet**, De Duve Institute - University of Louvain, Belgium
- 10:45-11:25** **Title:** The decline of the prevalence of cancers during organism senescence  
**Alvaro Macieira Coelho**, French National Institute of Health, France

**Networking & Refreshments 11:25-11:45 @ Foyer**

**Sessions:** Genomics | Biomarkers | Histone Proteins

**Chair:** Jiangwen Zhang, University of Hong Kong, Hong Kong

**Co-Chair:** Tao Liu, Histone Modification Group Children's Cancer Institute, Australia

## INTRODUCTION

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- 11:45-12:10** **Title:** Detection of tumor-related DNA methylation biomarkers in liquid biopsies from metastatic castration resistant prostate cancer patients to improve treatment decisions  
**Madonna R Peter**, University of Toronto, Canada
- 12:10-12:35** **Title:** Emergence of novel CpG islands and genomic imprinting in mammalian evolution  
**Shunsuke Suzuki**, Shinshu University, Japan
- 12:35 -13:00** **Title:** TRF1 suppresses Break Induced Replication and early onset of ALT induction  
**Jean-Baptiste Vannier**, Imperial College London, UK

**Lunch Break 13:00-14:00 @ Hotel Restaurants**

## Awards & Closing Ceremony

# Bookmark your Dates

5<sup>th</sup> International Congress on

## Epigenetics & Chromatin

August 22-23, 2019 | Vienna, Austria

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