



SUMOYLATION **PHOSPHORYLATION**
UBIQUITYLATION **CITRULLINATION**
HISTONE **ADP-ribosylation**
ACETYLATION **miRNA**
BROMODOMAIN
DNA **HYDROXYMETHYLATION**
METHYLATION **DEMETHYLATION**

Epi Nantes

Rachel Deplus, Belgium
 Charles De Smet, Belgium
 Panagis Filippakopoulos, UK
 Steven A. Johnsen, Germany

Adam R. Karpf, USA
 Frank Lyko, Germany
 Sriharsa Pradhan, USA
 Michaël Schneckeburger, Luxembourg

OCTOBER 6th & 7th, 2015

Institut de recherche en santé
 de l'Université de Nantes

www.epinantes.fr

EpiNantes 2015 meeting

Program

Tuesday October 6th – Wednesday October 7th

NANTES, France

DAY ONE, OCTOBER 6TH, 2015

9:30 h – 10:00 h - Reception

SESSION CHAIRS:

10:00 h – 10:45 h - Plenary session 1: **Sriharsa Pradhan**, DNA methyltransferases and epigenetic inheritance in mammals.

New England Biolabs, Inc., Ipswich, MA, USA.

10:45 h – 11:15 h - Short oral communications

Mathilde Cheray, Specific inhibition of DNMT3A/ISGF3 γ interaction increases the temozolomide efficiency to reduce tumor growth.

Diagenode, Sandy Carrillo, Uncover genome-wide DNA methylation with premium RRBS.

11:15 h – 11:35 h - Coffee break and posters session

SESSION CHAIRS:

11:35 h – 12:20 h - Plenary session 2: **Frank Lyko**, Epigenetic changes associated with colon cancer formation.

German Cancer Research Center, Heidelberg, Germany.

12:20 h – 12:50 h - Short oral communications

Hang Gyeong Chin, Epigenetic regulation of LSF mediated gene expression in mammalian cells.

Paola Arimondo, Design and use of chemical tools to modulate gene expression based on the targeting of DNA methyltransferase.

12:50 h – 14:00 h - Lunch break and posters session

SESSION CHAIRS:

14:00 h – 14:45 h - Plenary session 3: **Rachel Deplus**, Mechanisms of Tet's proteins regulation.

Cancer Epigenetic Laboratory, Brussel, Belgium.

14:45 h – 16:15 h - Short oral communications

AVIESAN, Inserm Transfert How to promote the transfer of academic innovations in epigenetics to the Industry?

HUPERION Pharma, Patrick Page, Epigenetic targeting of histone methyl transferase Therapeutic potential in hepatocellular carcinoma?

Cambridge Epigenetix Ltd, Dominique Fauvin, Next generation epigenetics - Innovative workflow for the accurate analysis of DNA modifications.

16:15 h – 17:00 h - Coffee break and posters session

SESSION CHAIRS:

17:00 h – 17:45 h - Plenary session 4: **Michaël Schnekenburger**, Targeting histone deacetylase activities for cancer therapy.

Fondation Recherche sur le Cancer et les Maladies du Sang, Laboratoire de Biologie Moléculaire et Cellulaire du Cancer(LBMCC), Luxembourg.

17:45 h – 18:30 h - Short oral communications

Axel Désir-Vigné, Role of the endoplasmic reticulum stress in the loss of histone acetylation in colonic epithelium induced by intrauterine growth retardation.

Sankari Nagarajan, Role of BRD4 and histone acetylation in estrogen receptor-positive breast cancers.

Active Motif, Sarantis Chlamydas, A ChiP-Seq spike-in method enables detection of global histone modification changes across the genome.

18:30 h – 20:00 h - **Social event and posters session**

20:30 h - **Gala dinner**

DAY TWO, OCTOBER 7TH, 2015

8:30 h – 9:00 h - Reception

SESSION CHAIRS:

9:00 h – 9:45 h - Plenary session 5: **Adam R. Karpf**, Global DNA hypomethylation in ovarian cancer : pathology and therapeutic opportunity.

Eppley Institute, Fred & Pamela Buffett Cancer Center, University of Nebraska Medical Center, Omaha, USA.

9:45 h – 10:15 h - Short oral communications

David Roulois, Low dose DNA-demethylating agents target colorectal cancer-initiating cells by activation of MDA5/MAVS/IRF7 pathway.

Qiagen, Hachemi Zeraia, MicroRNA, Innovations and insights.

10:15 h – 10:45 h - Coffee break and posters session

SESSION CHAIRS:

10:45h – 11:30 h - Plenary session 6: **Charles De Smet**, DNA hypomethylation and activation of germline genes in human tumors : causes and consequences.

Duve Institute and Université catholique de Louvain, Brussel, Belgium.

11:30 h – 12:15h - Short oral communications

Jerome Moreaux, Role of RECQ1 helicase in multiple myeloma (MM) drug resistance.

Yves Renaudineau, Epigenetic defects in salivary gland epithelial cells from patients with primary Sjögren's syndrome and lymphoma.

Jean Cavarelli, Functional insights from structures of Protein Arginine Methyl transferase : substrate recognition specificity, molecular mechanism and structure-based drug design.

12:15 h – 13:30 h - Lunch break and posters session

SESSION CHAIRS:

13:30 h – 14:15 h - Plenary session 7: **Steven A. Johnsen**, Chromatin regulatory proteins at the nexus of cellular plasticity and tumorigenesis.

Clinic for General, Visceral and Pediatric Surgery, Göttingen, Germany.

14:15 h – 14:45 h - Short oral communications

Audrey Vincent, Epigenetic reprogramming in colon cancer stem cells.

Camille Jacques, Selective inhibition of BET bromodomain epigenetic signaling interferes with EWS-FLI1 expression in Ewing Sarcoma.

SESSION CHAIRS:

14:45 h – 15:30 h - Plenary session 8: **Panagis Filippakopoulos**, Control of gene expression by selective and non-selective direct inhibition of bromodomain-acetyl-lysine readout.

Nuffield Department of Medicine, Medical Sciences Division, Oxford University, United Kingdom.

15:30 h – 16:00 h - Short oral communications

Marc Baud'huin, Selective inhibition of BET bromodomains epigenetic signaling increases bone volume and modulates osteoblasts and osteoclasts numbers.

Robert Dante, Inhibition of DNA methylation resensitize tumor cells to dependence receptors apoptotic pathway targeting therapies.

16:00 h *End of the congress*