# Thursday 6 November

09:00 – 09:05 Welcome by Luis Serrano (CRG Director)

09:05 – 09:10 Welcome by Juan Valcárcel (Gene Regulation, Stem Cells and Cancer Coordinator, CRG)

### **Chromatin architecture & dynamics**

### Session 1 – Chair: Miguel Beato (CRG)

#### 09:10 - 09:40 Bas VAN STEENSEL

Division Gene Regulation, The Netherlands Cancer Institute, Amsterdam NL "Dynamics and architecture of genome – nuclear lamina interactions"

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Ludwig-Maximilians-Universität München (LMU), Martinsried DE

"Massive and strikingly similar changes of the nuclear landscape during preimplanation development of fertilized and cloned bovine embryos"

#### 10:10 – 10:40 **John T. LIS**

Department of Molecular Biology and Genetics, Cornell University, Ithaca US

"Targeted and genome-wide views into the mechanisms of transcription and its regulation in living cells"

#### 10:40 - 10:50 Colin A.SEMPLE

MRC Institute of Genetics and Molecular Medicine, University of Edinburgh, Edinburgh UK "Integrative modeling reveals the principles of multi-scale domain boundary formation in nuclear organization"

#### 10:50 – 11:00 Sandra PEIRÓ

Institut Hospital del Mar d'Investigacions Mèdiques (IMIM), Barcelona ES "LOXL2 oxidizes methylated TAF10 and controls neural progenitor specification"

11:00 - 11:30 coffee break

### **Session 2 – Chair: Guillaume Filion (CRG)**

#### 11:30 – 12:00 **Edith HEARD**

Genetics and Developmental Biology, Institute Curie, Paris FR

"Genetic and epigenetic control of X-chromosome inactivation"

# 12:00 – 12:30 **Victor CORCES**

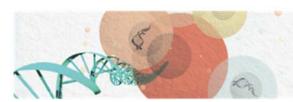
Department of Biology, Emory University, Atlanta US

"The role of architectural proteins in the three-dimensional organization of the chromatin"

### 12:30 - 12:40 Chiara DI VONA

Centre for Genomic Regulation (CRG), Barcelona ES

"A novel role for the DYRK1A protein kinase as a chromatin-associated transcriptional regulator"



# 13th CRG SYMPOSIUM: GENE REGULATION STEM CELLS & CANCER



### 12:40 – 12:50 Maria Aurelia RICCI

Centre for Genomic Regulation (CRG), Barcelona ES

"Nucleosomes form discrete clutches along the chromatin fiber and clutch size correlates with cell pluripotency"

- 12:50 13:05 poster speed presentations (coral)
- 13:05 14:30 lunch & poster session

### Mechanisms of gene regulation

### Session 3 - Chair: Luciano Di Croce (CRG)

### 14:30 - 15:00 Patrick CRAMER

Max Planck Institute for Biophysical Chemistry, Göttingen DE

"Towards molecular systems biology of genome transcription"

#### 15:00 – 15:10 **Roni H. G. WRIGHT**

Centre for Genomic Regulation (CRG), Barcelona ES

"Nuclear ATP synthesis derived from ADP-ribose is essential for Chromatin Remodeling and Hormonal Gene Regulation in Breast Cancer Cells"

#### 15:10 – 15:20 Ulrich BRAUNSCHWEIG

Donnelly Centre, University of Toronto, Ontario CA

"Widespread intron retention in mammals functionally tunes transcriptomes"

#### 15:20 – 15:30 **Travis H. STRACKER**

Institute for Research in Biomedicine (IRB Barcelona), Barcelona, ES

"CEP63 deficiency promotes p53 dependent microcephaly and reveals a role for the centrosome in meiotic recombination"

- 15:30 15:45 poster speed presentations (turquoise)
- 15:45 16:30 coffee break

#### Session 4 – Chair: Fátima Gebauer (CRG)

### 16:30 – 17:00 **Nikolaus RAJEWSKY**

Max-Delbrück-Centrum für Molekulare Medizin (MDC), Berlin DE

"Regulatory RNAs"

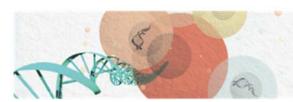
### 17:00 – 17:10 **Laurence WURTH**

Centre for Genomic Regulation (CRG) and University Pompeu Fabra (UPF), Barcelona ES "Oncogenic properties of the RNA-binding protein UNR: Targets in Melanoma"

### 17:10 – 17:40 **Robert J. SCHNEIDER**

NYU School of Medicine, Alexandria Center for Life Sciences, New York US

"The mRNA binding protein AUF1 controls skeletal muscle stem cell fate, linking AUF1 mutation to the development of limb girdle muscular dystrophy"



# 13th CRG SYMPOSIUM: GENE REGULATION STEM CELLS & CANCER



### 17:40 - 17:50 Chris VAN OEVELEN

Centre for Genomic Regulation (CRG), Barcelona ES

"C/EBPa induced immune cell transdifferentiation reveals two complementary macrophage enhancer pathways during hematopoiesis"

17:50 – 18:00 poster speed presentations (grey)

#### **Poster Session**

18:00 – 20:00 Poster Session & pica pica

## Friday 7 November

## Cell reprogramming, aging & cancer

### Session 5 – Chair: Bill Keyes (CRG)

#### 09:00 - 09:30 **Judith CAMPISI**

Buck Institute for Research on Aging, Novato US

"Stem cells, cancer and aging: the cellular senescence connection"

#### 09:30 - 10:00 Kenneth ZARET

Department of Cell and Developmental Biology, Smilow Center for Translational Research, Philadelphia US

"Mechanisms for Programming Cell Fate"

#### 10:00 - 10:30 Markus GROMPE

Oregon Stem Cell Center and Papé Family Pediatric Research Institute, Oregon Health & Science University, Portland US

"Mature hepatocytes are a source of bipotential oval cells in chronic liver injury"

#### 10:30 - 11:00 **Denis DUBOULE**

École Polytechnique Fédérale de Lausanne (EFPL) and University of Geneva, CH "Long-range regulation during development and evolution"

#### 11:00 - 11:10 Lorenzo RINALDI

CRG/IRB

"Dynamic Expression of the de novo DNA Methyltransferases DNMT3A and DNMT3B during epidermal stem cells differentiation"

11:10 – 11:20 poster speed presentations (white)

11:20 - 11:50 coffee break

#### **Session 6 – Chair: Thomas Graf (CRG)**

### 11:50 - 12:20 **Scott LOWE**

Cancer Biology & Genetics Program, Memorial Sloan Kettering Cancer Center, New York US

"Cancer Drivers and Dependencies"



#### 12:20 - 12:50 **Austin SMITH**

Medical Research Council & Wellcome Trust/MRC Stem Cell Institute, University of Cambridge, Cambridge UK

"Pluripotent stem cells: capture of the ground state"

### 12:50 - 13:00 **Mekayla STORER**

Centre for Genomic Regulation (CRG) and University Pompeu Fabra (UPF), Barcelona ES "Investigating A Novel Role For Senescence-Associated Stem Cell Gene Expression"

### 13:00 - 13:30 Marius WERNIG

Institute for Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine, Stanford US

"Direct lineage reprogramming towards the neural lineage"

### 13:30 – 14:00 **Manuel SERRANO**

Spanish National Cancer Research Centre (CNIO), Madrid ES

"Reprogramming in vivo and its impact on tissue homeostasis and regeneration"

14:00 – 15:00 lunch & poster session

### Satellite Course@CRG Inaugural Session

15:00 – 15:10	Welcome by Pia Cosma (CRG)
15:10 - 15:40	Luigi NALDINI, TIGET, Milan, Italy.
15:40 – 16:10	Petra HAJKOVA, MRC, London, UK.
16:10 - 16:40	Angel RAYA, IBEC, Barcelona, Spain.
16:40 - 17:10	coffee break
17:10 - 17:40	Ian CHAMBERS, MRC, Edinburgh, UK.
17:40 – 18:10	Eran MESHORER, Hebrew University of Jerusalem, Israel.
18:10 - 18:40	Thomas GRAF, CRG, Barcelona, Spain.