

# ARCHITECTURE AND PLASTICITY OF THE CELL NUCLEUS

## PROGRAMME

École nationale supérieure d'architecture (ENSA) Paris-Val de Seine  
3, Quai Panhard et Levassor - Paris 13<sup>e</sup>

November 29<sup>th</sup>, 2016

► Welcome address

► 9:30 AM - 12:50 AM **SESSION 1 BUILDING THE LIMITS: COMMUNICATION, PLASTICITY, EVOLUTION**

- 9:30 – 10:00 AM **Brian Burke**, Singapore: (TBA)
- 10:00 – 10:30 AM **Mike Rout**, New York, USA: Structure and Mechanism of the Nuclear Pore Complex
- 10:30 – 11:00 AM **Catherine Dargemont**, Paris, France: Plasticity of the Nuclear Pore Complex: consequences on gene expression and genome integrity
- 11:00 – 11:30 AM *Coffee Break*
- 11:30 – 12:00 AM **Mark Field**, Dundee, UK: (TBA)
- 12:00 – 12:20 AM **Yann Blanchi**, Paris, France: Plant signaling as a model for adaptative architecture
- 12:20 – 12:50 AM **Susan Gasser**, Basel, Switzerland: (TBA)

► 1:00 – 2:30 PM Free Time

► 2:30 AM - 5:30 PM **SESSION 2 SPACE-TIME ORGANIZATION FOR OPTIMAL USE OF INFORMATION**

- 2:30 – 3:00 PM **Bas van Steensel**, Amsterdam, The Netherlands: Finding principles of chromosome architecture by genome deconstruction
- 3:00 – 3:30 PM **Nancy Kleckner**, Boston, USA: Chromosome Compaction/Expansion (Stress) Cycles
- 3:30 – 3:50 PM **Patrice Ceccarini**, Paris, France: Genetic and architectural morphogenesis
- 3:50 – 4:30 PM *Coffee Break*

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- ▶ 4:30 – 5:00 PM **Maria Elena Torres Padilla**, Strasbourg, France: Shaping plasticity during early mammalian development
- ▶ 5:00 – 5:30 PM **Édith Heard**, Paris, France: Nuclear dynamics during X Chromosome Inactivation

▶ 5:30 – 7:00 PM Speed dating with drinks

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▶ 9:00 AM - 1:00 PM **SESSION 3 DECIPHERING, REPRESENTING AND MODELING DYNAMIC ARCHITECTURE**

- ▶ 9:00 – 9:30 AM **Chris Lima**, New York, USA: Ubiquitin-like proteins: From conjugation to recognition
- ▶ 9:30 – 10:00 AM **Giacomo Cavalli**, Montpellier, France: Polycomb proteins and 3D architecture in genome regulation and epigenetic inheritance
- ▶ 10:00 – 10:30 AM **Christophe Zimmer**, Paris, France: Deeper views of the nucleus by imaging and modeling
- ▶ 10:30 – 10:50 AM **Élizabeth Mortamais**, Paris, France: Genesis and design: some uses of concepts as genesis epigenesis, phylogenesis, in the understanding and mechanisms of design in Architecture
- 10:50 – 11:20 AM **Coffee Break**
- ▶ 11:20 – 11:40 AM **Pascal Terracol**, Paris, France: Structure ontologies and morphology schemes in architecture
- ▶ 11:40 – 12:10 AM **Kerstin Bystricky**, Toulouse, France: Chromatin dynamics during transcription activation in living cells
- ▶ 12:10 – 12:40 AM **Leonid Mirny**, Boston, USA: Physical principles of genome (re)organization
- ▶ 12:40 – 1:00 PM Concluding remarks

▶ 1:00 PM End of the meeting

Inscription: <http://cellnucleus.sciencesconf.org>