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ITMO CELL BIOLOGY, DEVELOPMENT AND EVOLUTION

November
29-30, 2016

École nationale
supérieure d'architecture
Paris-Val de Seine

Organizers: Catherine DARGEMONT, Giacomo CAVALLI

<http://cellnucleus.sciencesconf.org>

ARCHITECTURE AND PLASTICITY OF THE CELL NUCLEUS

Speakers

Brian BURKE (Singapore)
Kerstin BYSTRICKY (Toulouse, France)
Giacomo CAVALLI (Montpellier, France)
Catherine DARGEMONT (Paris, France)
Mark FIELD (Dundee, UK)
Susan GASSER (Basel, Switzerland)
Édith HEARD (Paris, France)
Nancy KLECKNER (Cambridge, MA, USA)

Christopher LIMA (New York, USA)
Leonid MIRNY (Cambridge, MA, USA)
Mike ROUT (New York, USA)
Maria-Elena TORRES-PADILLA
(Strasbourg, France)
Bas VAN STEENSEL (Amsterdam, NL)
Christophe ZIMMER (Paris, France)

with the participation of Architecture professors from ENSAPVS, Paris, France:

Yann BLANCHI, Patrice CECCARINI, Elizabeth MORTAMAIS and Pascal TERRACOL

PARIS
VAL DE
SEINE
ÉCOLE NATIONALE SUPÉRIEURE
D'ARCHITECTURE

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^e

November 29th, 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*

ARCHITECTURE AND PLASTICITY OF THE CELL NUCLEUS

- ▶ 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

November 30th, 2016

▶ 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 in the nucleus: 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

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Speakers and organizers
2016 Conference on Architecture and Plasticity of the Cell Nucleus

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Dupont Café
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