

## Program of the 12<sup>th</sup> edition of the French 3R Meeting

### Tuesday 2<sup>nd</sup> May 2017

14:00 – 16:30	Welcome
16:30 – 18:25	<b>Session 1 – DNA Repair and Diseases</b> <i>Session chair: Josée Guilrouilh-Barbat &amp; Pablo Radicella</i>
16:30 - 17:15	<b>Opening: Ketan J Patel, MRC Laboratory of Molecular Biology, Cambridge UK</b> <i>Toasting the Genome</i>
17:15 - 17:35	<b>Anna Campalans, CEA, Fontenay-aux-Roses</b> <i>A critical role of the DNA repair protein OGG1 in mitochondrial physiology</i>
17:35 - 17:55	<b>Anna Gueiderikh, Institut Gustave Roussy, Villejuif</b> <i>FANC pathway involvement in nucleolar homeostasis and its implications for clinics</i>
17:55 – 18:25	<b>Conference: Jean Soulier, IUH, Hôpital Saint Louis, Paris</b> <i>Genetic instability, stem cell defect and leukemia progression in Fanconi anemia</i>
19:00 -20:00	<b>Dinner</b>

20:00-22 :00 Poster Session Ia (Posters P001 to P063, first session)

### Wednesday 3<sup>rd</sup> May 2017

8:30 – 10:00	<b>Session 2 – DNA Replication</b> <i>Session chair: Pierre-Henri Gaillard &amp; Marie-Noëlle Prioleau</i>
8:30 – 9:00	<b>Conference: Julian Sale, MRC Laboratory of Molecular Biology, Cambridge UK</b> <i>Turning DNA sequences into replication impediments</i>
9:00 – 9:20	<b>Caroline Brossas, Institut Jacques Monod, Paris</b> <i>Building synthetic early replicating units in a naturally mid-late region involves cooperation between shifting modules</i>
9:20 – 9:40	<b>Cyril Ribeyre, Institut de Génétique Humaine, Montpellier</b> <i>RIF1 is associated with the replisome and prevents unscheduled DNA synthesis</i>
9:40 – 10:00	<b>Yann Benureau, Institut Gustave Roussy, Villejuif</b> <i>Repriming and homologous recombination assist TLS at the replication forks to tolerate ultraviolet-induced DNA damages in human cells</i>
10:00 – 10:30	<b>Coffee Break</b>

### Wednesday 3<sup>rd</sup> May (end)

10:30 – 12:00	<b>Session 3 – Homologous Recombination I</b> <i>Session chair: Olivier Espeli &amp; Pierre-Henri Gaillard</i>
10:30 – 11:00	<b>Conference: Alain Nicolas, Institut Curie Paris</b> <i>Role of G-quadruplexes in replication-dependent genome instability</i>
11:00 – 11:20	<b>Arnaud De Muyt, Institut Curie, Paris</b> <i>A new member of the XPF-ERCC1 complex family is important for crossover formation in <i>Saccharomyces cerevisiae</i></i>
11:20 – 11:40	<b>Emmanuelle Martini, CEA, Fontenay-aux-Roses</b> <i>A meiotic RPA-like complex is essential for recombinase filament integrity</i>
11:40 – 12:00	<b>François Lecointe, Institut Micalis INRA, Jouy en Josas</b> <i>Sak4 of phage HK620 is a RecA remote homolog with single-strand annealing activity stimulated by its cognate SSB protein</i>
12:00 – 14:00	<b>Lunch</b>

14:00– 16:00 Poster Session Ib (Posters P001 to P063, second session)

16:00 – 18:30	<b>Session 4 – Chromosome Dynamics</b> <i>Session chair: Françoise Dantzer &amp; Gaëlle Legube</i>
16:00 – 16:30	<b>Conference: François Cornet, LMGM, Toulouse</b> <i>Xer recombination at the crossroad of vertical and horizontal gene transmission</i>
16:30 – 16:50	<b>Luciana Lazar Stefanita, Institut Pasteur, Paris</b> <i>Choreography of budding yeast chromosomes during the cell cycle</i>
16:50 – 17:10	<b>Elise Vickridge, Collège de France, Paris</b> <i>Management of <i>E. coli</i> sister chromatid cohesion in response to genotoxic stress</i>
17:10 – 17:40	<b>Coffee Break</b>
17:40 – 18:00	<b>Maoussi Lhuillier-Akakpo, CEA, Fontenay-aux-Roses</b> <i>Mechanisms of DNA double strand break relocalization to the nuclear periphery</i>
18:00 – 18:30	<b>Conference: Stéphane Marcand, CEA, Fontenay-aux-Roses</b> <i>Condensin-dependent post-anaphase recoiling and the telomeric protein Rap1 determine where dicentric chromosomes break at abscission</i>
19:00 – 20:00	<b>Dinner</b>

20:00 – 22:00 Poster Session IIa (Posters P064 to end, first session)

## Thursday 4<sup>th</sup> May 2017

<b>8:30 – 10:00</b>	<b>Session 5 – Nuclear Structure</b> <i>Session chair: Valérie Borde &amp; Olivier Espeli</i>
8:30 – 9:00	<b>Conference: Angela Taddei, Institut Curie, Paris</b> <i>The heterochromatin factor Sir3 whips the yeast genome into shape</i>
9:00– 9:20	<b>Angela Moussa, CEA, Fontenay-aux-Roses</b> <i>The interaction of 53BP1 with lamin B1 impairs its recruitment to DNA damage</i>
9:20 – 9:40	<b>Maria Moriel-Carretero, Institut de Génétique Humaine, Montpellier</b> <i>A novel role for DNA repair proteins in the control of DNA compaction</i>
9:40 – 10:00	<b>Aline Marnef, LBCMCP, Toulouse</b> <i>DNA double-strand breaks at ribosomal DNA are repaired by specific mechanisms</i>
<b>10:00 – 10:30</b>	<b>Coffee Break</b>

<b>10:30 – 12:00</b>	<b>Session 6 – DNA Replication and RNAs</b> <i>Session chair: Philippe Pasero &amp; Marie-Noëlle Prioleau</i>
10:30 – 11:00	<b>Conference: Jean-Sébastien Hoffmann, CRCT, Toulouse</b> <i>Replication stress influences the timing of DNA replication initiation of the next cell generation</i>
11:00 – 11:20	<b>Nikolaos Parisis, Institut Jacques Monod, Paris (IGMM, Montpellier)</b> <i>A role for nuclear actin dynamics in DNA replication</i>
11:20 – 11:40	<b>Amandine Bonnet, Institut Jacques Monod, Paris</b> <i>Introns protect eukaryotic genomes from transcription-associated genetic instability</i>
11:40 – 12:00	<b>Mélanie Lemor, IFREMER, Plouzané</b> <i>Influence of the balance and ratio of dNTPs/rNTPs on the genome integrity in hyperthermophilic Archaeal cells.</i>
<b>12:00 – 14:00</b>	<b>Lunch</b>

**14:00– 16:00**    **Poster Session IIb (Posters P064 to end, second session)**

<b>16:00 – 19:10</b>	<b>Session 7– Homologous Recombination II</b> <i>Session chair: Jean-Baptiste Charbonnier &amp; Valérie Borde</i>
16:00 – 16:30	<b>Conference: Sarah Lambert</b> <i>Institut Curie Orsay</i> <i>Processing of replication forks by homologous recombination: lessons from site-specific Replication Fork Barriers.</i>
16:30 – 16:50	<b>Aurèle Piazza</b> , <i>University of California, Davis</i> <i>Multi-invasions Are Recombination Byproducts That Induce Chromosomal Rearrangements</i>
16:50 – 17:10	<b>Eric Coïc</b> , <i>CEA, Fontenay-aux-Roses</i> <i>Interaction between Rad52 and Rad51 is essential to protect Rad51 filaments from disruption by the anti-recombinase Srs2</i>
<b>17:10 – 17:40</b>	<b>Coffee Break</b>
17:40 – 18:00	<b>Jingqi Dai</b> , <i>I2BC, Saclay</i> <i>Pivotal roles of Mismatch Repair complexes in DNA repair and in meiotic recombination</i>
18:00 – 18:20	<b>Aurélie Berland</b> , <i>Institut Imagine, Paris</i> <i>PROMIDISα: analysis of the TCRα repertoire as a diagnostic tool for patients with V(D)J recombination and/or DNA repair defects</i>
18:20 – 18:40	<b>Jessica Andreani</b> , <i>I2BC, Saclay</i> <i>Exploring structural interactomes of the 3R pathways in the light of evolution</i>
18:40 - 19:10	<b>Conference: Mauro Modesti</b> , <i>CRCM, Marseille</i> <i>Watching (broken) DNA tethering</i>
<b>19:10 – 20:00</b>	<b>Drinks</b>
<b>20:00 – 21:00</b>	<b>Dinner</b>
<b>21:00</b>	<b>Dancing</b>

## Friday 5<sup>th</sup> May 2017

<b>10:00 -10:45</b>	<b>Departure of shuttles for the Toulon train station</b>
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