



Les 2<sup>èmes</sup> Journées du Réseau France Microtubules  
(French Microtubule Network)  
6 et 7 juillet 2015, Université Grenoble Alpes

**LUNDI 06 JUILLET 2015 - AMPHITHEATRE BOUCHERLE – UNIVERSITE GRENOBLE ALPES/CHU**

9h00 Welcome & Registration

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9h30-10h30 Seminar Invited Speaker Niels GALJART (Rotterdam, The Netherlands)

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10h30 - 11h **SESSION 1 MICROTUBULE ASSEMBLY AND REGULATIONS (I)**

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- EB1-gold reveals the GTP-cap architecture of growing microtubule ends. Frank BAZILE
- Direct evidence for the interaction of stathmin with microtubules in cells: an investigation made by real-time confocal imaging coupled to FRET and FRAP spectroscopies. Gilles BREUZARD

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COFFEE BREAK

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11h30 – 12h45 **SESSION 2 MICROTUBULE ASSEMBLY AND REGULATIONS (II)**

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- EB1 links microtubule network organization and touch response in *Arabidopsis thaliana*. Frédéric COQUELLE
- Unravelling the mechanoperception and transduction pathway controlling the microtubule response to mechanical stress. Stéphane VERGER
- Investigating the position of GCPs 4, 5, 6 in the Gamma-tubulin ring complex. Dorian FARACHE,
- Microtubule and actin organization by the neuronal MAP tau. Isabelle ARNAL
- Role of tubulin polyglutamylation in neurodegeneration. Maria M. MAGIERA

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LUNCH

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COFFEE BREAK

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15h30-16h30 SESSION 3 MICROTUBULES AND THEIR REGULATORS: NEW THERAPEUTIC TARGETS? (I)

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- Microtubule-bound septins together with tyrosinated and polyglutamylated tubulin confer cell adaptation to Taxol® and impact on cell motility. Anita BAILLET
- The role of primary cilia in colon homeostasis and tumor development. Ruizhi TANG
- End-binding 1 protein overexpression correlates with glioblastoma progression and sensitizes to Vinca-alkaloids in vitro and in vivo. Raphael BERGES
- Microtubule-associated tumor suppressor ATIP3 interacts with EB1: clinical relevance in breast cancer. Clara NAHMIAS

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COFFEE BREAK

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17h15-18h00 SESSION 4 MICROTUBULES AND THEIR REGULATORS: NEW THERAPEUTIC TARGETS? (II)

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- IPP51, a chalcone acting as a microtubule inhibitor with in vivo antitumor activity against bladder carcinoma. Véronique MARTEL-FRACHET
- A new LIMK inhibitor stabilizes microtubules and has anticancer activity. Chloé PRUNIER
- Photoswitchable microtubule inhibitors for localised optical control of MT dynamics, mitosis, and cell death. Oliver THORN-SESHOLD

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20H00 DINER PRISE DE LA BASTILLE

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MARDI 07 JUILLET 2015 - AMPHITHEATRE BOUCHERLE – UNIVERSITE GRENOBLE ALPES/CHU

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9h00-10h30    SESSION 5    **MICROTUBULES AND CELL DIVISION (SPINDLE ORGANIZATION)**

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- Proper timing of spindle assembly is critical for correct chromosome alignment in mouse oocytes. Isma BENNABI
- The microtubule depolymerase Kif2 (kinesin 13) localizes to a cortical structure which positions the spindle asymmetrically during unequal cleavages. Janet CHENEVERT
- Yeast GSK-3 kinase regulates astral microtubule function via phosphorylation of the microtubule-stabilizing kinesin Kip2. Dimitris LIAKOPOULOS
- Ensconsin/MAP7 is required for various aspects of cell division. Régis GIET
- Huntingtin is required for mitotic spindle orientation. Sandrine HUMBERT
- Different ways to build a mitotic spindle in the mouse brain: from normal to pathological conditions. Véronique MARTHIENS

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COFFEE BREAK

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11h00-12h15    SESSION 6    **MICROTUBULES, CELL MORPHOGENESIS AND DIFFERENTIATION**

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- Microtubule-Associated Protein 6 (MAP6) mediates neuronal connectivity through Semaphorin 3E-dependent signaling for axonal growth. Jean-Christophe DELOULME
- A role for GSK3 $\beta$  in controlling the Navigator-Trio-mediated crosstalk between microtubule dynamics and actin remodelling during neuronal morphogenesis. Jabran BENHARI
- The characterization of a G2/M TRM isoform sheds new light on the preprophase band function in plant cell division plane positioning. Martine PASTUGLIA
- Motor-driven marginal band coiling promotes cell shape change during platelet activation. Karin SADOUL
- Cell anisotropy and microtubules. Vincent MIRABET

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LUNCH

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13h15 – 14h30 **POSTER SESSION**

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14h30-15h45 **SESSION 6** **MICROTUBULES, ORGANELLE TRANSPORT AND CELL MIGRATION**

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- **Regulation of cortical microtubule capture and cell migration by a microtubule minus end-associated protein complex.** Habib BOUGUENINA
- **Kinesin-14 transports large DNA molecules through the cytoplasm of eukaryotic cells** Giovanni CAPPELLO
- **Microtubule dependent nuclear domain organization during skeletal muscle fibers development.** Vincent GACHE
- **Huntington's disease: huntingtin and the control of intracellular dynamics.** Frédéric SAUDOU
- **The structure of apo-kinesin bound to tubulin links the nucleotide cycle to movement.** LuYan CAO

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**COFFEE BREAK**

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16h15-16h45 **CLOSING SESSION** **ORGANIZATION OF THE NEXT FRENCH MT NETWORK MEETING, 2017**

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Organisateurs



Commanditaires

