

# Program

**9:00 - 10:20 Oral presentations – Chairpersons: Julie Soblet and Alexandre Marbaix**

- 9:00 High throughput sequencing approach to unravel genetic causes of primary lymphedema (Matthieu Schlögel)
- 9:20 The Genetic Basis of Non-Syndromic Cleft Lip and Palate (Mirta Basha)
- 9:40 Next generation sequencing approaches in spinocerebellar degenerations (Marie Coutelier)
- 10:00 Epigenetic hierarchy within the *MAGEA1* cancer-germline gene : promoter DNA methylation dictates local histone modifications (Julie Cannuyer).

**10:20 - 10:35 Coffee break**

**10:35 – 12:30 Oral presentations –Chairpersons: Alexis Poncy and Jennifer Bolsée**

- 10:35 Regulation of the transcription factor ZONAB during embryonic development and carcinogenesis of the pancreas and thyroid (Anne-Sophie Delmarcelle).
- 10:55 Control of hepatic cell differentiation by microRNAs (Céline Demarez).
- 11:15 Role of miRNAs in pancreatic acinar-to-ductal metaplasia (Cécile Augereau).
- 11:35 Hypoxia is not required for human endometrial breakdown or repair in a xenograft model of menstruation (Pauline Coudyzer).
- 11:55 *BioWin*

**12:30 - 13:30 Lunch and poster viewing**

**13:30 - 15:10 Oral presentations – Chairpersons: Lorraine Springuel and Astrid Van Belle**

- 13:30 Characterization of IL-22 production mechanisms: the role of the aryl hydrocarbon receptor (Perrine Cochez).
- 13:50 Study of the specificity of GARP-mediated TGF- $\beta$  activation (Olivier Dedobbeleer).
- 14:10 Tryptophan metabolites and anti-tumor immune response (Juliette Lamy).
- 14:30 Role of JAK2 pseudokinase domain  $\alpha$  Helix C in constitutive activation induced by the V617F mutation (Emilie Leroy).
- 14:50 Potentiation of fludarabine and cladribine cytotoxicity by aphidicolin in chronic lymphocytic leukemia cells (Eliza Starczewska).

**15:10 – 16:20 Coffee break and poster presentations**

**16:20 - 17:20 Oral presentations – Chairpersons: Aurélie De Cock and Alexandra Gennaris**

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| 16:20 | LDV exacerbation of Fc receptor-mediated autoimmune blood diseases (Sarah Legrain).  |
| 16:40 | How is <i>Escherichia coli</i> sensing envelope stress? The role of RcsF – the sensor lipoprotein of Rcs phosphorelay (Joanna Szewczyk). |
| 17:00 | Generation of new tools to study the axonal transport of Theiloviruses (Cécile Lardinnois).  |

**17:20 - 18:00 Drink**

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Poster N°

Student's name:

# Poster Abstracts

1. DNA hypomethylation in tumors induces activation of a TET- targeting microRNA (Aurélie Van Tongelen).
2. Unraveling the reducing pathways and oxidative stress protection in *Caulobacter crescentus* (Camille Goemans).
3. Are human breast tumors infiltrated by CD8<sup>+</sup> T-cells recognizing tumor-specific antigens? (David Schröder).
4. Functional characterization of mutants of the JAK3 tyrosine kinase involved in tumoral transformation of T lymphocytes (Elisabeth Losdyck).
5. Post-translational regulation of HBP1 by PKB (Emeline Bollaert).
6. Mammalian PGP and Yeast Pho13 are erythronate-4-phosphate phosphatase acting as metabolite repair enzymes (Francesca Baldin).
7. PI3K-III/Vps34 : a link between control of apical endocytosis and epithelial polarity? (Giuseppina Grieco).
8. Novel STAT5-p53 Cross-Talk in Myeloproliferative Neoplasms: Persistently Activated STAT5 recruits p53 into gene regulation (Ilyas Chachoua).
9. Unraveling the cellular sulfenome: a search for new redox-regulated pathways (Isabelle Arts).
10. Unmasking of the pathways responsible for the constitutive expression of Indoleamine 2,3- dioxygenase (IDO) in human tumor cells. (Marc Hennequart).
11. The DNA damage sensor ATR (Ataxia-Telangiectasia Related) plays a key role in the regulation of deoxycytidine kinase activity (Maxime Beyaert).
12. Endogenous sphingomyelin segregates into submicrometric domains in the living erythrocyte membrane (Mélanie Carquin).
13. Are the multiple functions of Theiler's virus Leader (L) protein coupled? (Michael Peeters).
14. Exploring GDF15 function in melanoma cells (Orian Bricard).
15. Chronic stimulation and T Cell Dysfunction (René Bigirimana).
16. Targeting the AMP-metabolizing enzymes AMPD1, cN-1A and cN-II soluble 5'-nucleotidases using knockout mice as a strategy for AMPK activation to combat diabetes (Samanta Kviklyte).