

Structure fédérative de recherche



<https://bio-sante-toulouse.fr/>

Annual meeting

Scientific advances

**in BIOLOGY AND BIOTECHNOLOGY FOR HEALTH
research in Toulouse**

24-25 November 2025

Administrative building, University of Toulouse
Marthe Condat amphitheater



Free but obligatory registration before November 9th 2025 :

<https://bio-sante-toulouse.fr/evenements-scientifiques/journees-scientifiques-de-la-sfr-b2s-2025/>

Monday 24 November

8:30-8:50 : Welcome

8:50 - 9:00 : Introduction

Abdelhadi Saoudi, *SFR-B2S Director*

9:00 – 10:00 : **Keynote speaker Andaine Seguin-Orlando**

Associate Professor at the University of Toulouse and CAGT

« **An ancient DNA perspective on human (pre)history** »

Chair: Isabelle Saves

10:00– 11:00 : Session 1: ***Chairs to be confirmed***

- **S1- Pierre Cordelier** - *CRCT* – “Cytidine Deaminase Resolves Replicative Stress and Protects Pancreatic Cancer from DNA-Targeting Drugs.”
- **S2- Françoise Guéraud** - *TOXALIM* – “Effects of sodium nitrite reduction, removal or replacement on cured and cooked meat for microbiological growth, food safety, colon ecosystem, and colorectal carcinogenesis in Fischer 344 rats.”
- **S3- Jean-Denis Pedelacq** - *IPBS* - “Catalytic Cycle of Type II 4'-Phosphopantetheinyl Transferases.”
- **S4- Jean-Charles Guéry** - *Infinity* – “Altered X chromosome inactivation of the TLR7/8-locus is associated with enhanced IFN signature in pDCs in systemic sclerosis.”

11:00 – 11:30 - Coffee break

11:30 – 12:30 : Session 2: ***Chairs to be confirmed***

- **S5- Alice Davy** - *CBI* – “Acute dietary methionine restriction highlights sensitivity of neocortex development to metabolic variations”
- **S6- Floriant Bellvert** - *TBI* – “Pivotal role of exogenous pyruvate in human natural killer cell metabolism.”
- **S7- Gilles Foucras** - *IHAP* - “Characterisation of inborn errors of immunity in cattle identified through mass genomic identification”
- **S8- Bastien Gerby** - *CRCT* – “Stem cell-like reprogramming is required for leukemia-initiating activity in B-ALL.”

12:30 – 14:00 - Lunch break

14:00 – 14:45 : Session 3: ***Chairs to be confirmed***

- **S9- Barbara Garmy-Susini** - *I2MC* – “15-Lipoxygenase promotes resolution of inflammation in lymphedema by controlling Treg cell function through IFN- β .”
- **S10- Audrey Goman** - *IRSD* – “Conserved bacterial enzymes fuel a lipid-based strategy for immune evasion and microbial warfare.”
- **S11- Jenny Paupert** - *Restore* – “A computational model reveals an early transient decrease in fiber cross-linking that unlocks adult regeneration.”

14:45 – 15:45 : Session SFR-B2S Young researchers (selected on abstract) ***Chairs to be confirmed***

- **SD1- Cassandra Konan** - *CBI* – “Exploring the role of EPHRIN-B1 in the human brain development using human cerebral organoids.”
- **SD2- Cédric Fabre** - *CRCT* – “Overcoming T cell exclusion in PDAC: Periostin as a therapeutic target?”
- **SD3- Nadine Gheziel** - *IRSD* – “Prenatal Stress triggers tactile and behavioral deficits in offspring through peripheral sensory neurons neurodevelopmental perturbations.”
- **SD4- Virginie Stevenin** - *IPBS* – “Ubiquitination-dependent manipulation of host recycling pathways by the intracellular bacteria *Salmonella*.”
- **SD5- Margaux Lalaurie** - *TOXALIM* – “The interaction between bread and meat: the mycotoxin deoxynivalenol increases the genotoxicity of heme iron.”

15:45 – 16:15 - Coffee break

16:15 – 17:15 : Session 4: ***Chairs to be confirmed***

- **S12- Jean Monlong** - *IRSD* – “Building a human pangenome reference to improve genomic studies”
- **S13- Ludovic Martinet** - *CRCT* – “NK cells with adhesion defects and reduced cytotoxic functions are associated with a poor prognosis in multiple myeloma.”
- **S14- Sebastien Britton** - *IPBS* – “Identification of the main barriers to Ku accumulation in chromatin.”
- **S15- Aurora Pignata** - *Infinity* – “Tissue resident memory CD4+ T cells infiltrate the CNS in progressive multiple sclerosis and contribute to chronic autoimmunity in mice.”

17:15-17:30 - Closure day 1

9:00 – 10:00 : **Keynote speaker Nicolas Gaudenzio**

Research director in immunology at Inserm and

Head of the « Neuronal regulation of the immune responses » group at Infinity institute, Toulouse

« **Neuro-immune interactions in allergy from fetal imprinting to disease development** »

Chair: Lilian Basso

10:00 – 11:00 : Session 5: **Chairs to be confirmed**

- **S16- Julien Viaud - I2MC** – “MTM1-mediated production of phosphatidylinositol 5-phosphate fuels the formation of podosome-like protrusions regulating myoblast fusion”
- **S17- Philippe Rousseau - CBI** – “Interplay between the Xer recombination system and the dissemination of antibioresistance in *Acinetobacter baumannii*.”
- **S18- Pauline Schmitt - IPBS** – “TL1A is an epithelial alarmin that cooperates with IL-33 for initiation of allergic airway inflammation.”
- **S19- Isabelle Ader - Restore** – “Identification of functional cellular markers related to human health, frailty and chronological age.”

11:00 – 11:30 - Coffee break

11:30 – 12:30 : Session 6: **Chairs to be confirmed**

- **S20- Nathalie Bastié- CBI** – “Sister chromatid cohesion halts DNA loop expansion.”
- **S21- Nicolas Blanchard - Infinity** – “*Toxoplasma gondii* infection and chronic IL-1 elevation drive hippocampal DNA double-strand break signaling, leading to cognitive deficits.”
- **S22- Marine Huillet - TOXALIM** – “Pharmacological activation of constitutive androstane receptor induces female-specific modulation of hepatic metabolism.”
- **S23- Stéphanie Gayral - I2MC** – “PI3KIIα-Dependent Autophagy Program Protects From Endothelial Dysfunction and Atherosclerosis in Response to Low Shear Stress in Mice.”

12:30 – 14:00 - Lunch Break

14:00– 15:00 : Session 7: **Chairs to be confirmed**

- **S24- Sebastien Nouaille - TBI** – “When translation elongation is impaired, the mRNA is uniformly destabilized by the RNA degradosome, while the concentration of mRNA is altered along the molecule.”
- **S25- Olivier Calvayrac - CRCT** – “Farnesyltransferase inhibition overcomes oncogene-addicted non-small cell lung cancer adaptive resistance to targeted therapies.”
- **S26- Christophe Guilhot - IPBS** – “Evolution of tuberculosis bacilli in response to different selective pressures: the role of the PhoPR two-component regulatory system.”
- **S27- Emilie Dordet-Frisoni - INTHERES**– “The interplay between mobilome and resistome in *Staphylococcus aureus*.”

15:00 – 16:00 : Session SFR-B2S Young researchers (selected on abstract) : **Chairs to be confirmed**

- **SP1- Lilibeth Torres - CBI** – “A microbial Genome-Wide Association Study identifies new potential genes involved in regulating hypermucoviscosity in *Klebsiella pneumoniae* .”
- **SP2- Alban Ricard - CRCT** – “Relationship between the E3 ubiquitin ligase TRIP12 and the Mediator of DNA damage checkpoint MDC1 : its impact on DNA Damage Response.”
- **SP3- Juliana Boukhaled - I2MC** – “Altered Metabolic Profile is Associated with Cardiac remodelling and Dysfunction in Chronic Kidney Disease .”
- **SP4- Rim Khanfour - INTHERES** – “Segment-Specific Activity and Effects on the Gut Microbiota and Resistome of oxytetracycline per os in Pigs.”
- **SP5- Emma Valdevit - Infinity** – “Human T follicular regulatory cells are composed by two layers of heterogeneity.”

16:00 – 16:30 - Coffee break

16:30 – 17:30 : Session 8 : **Chairs to be confirmed**

- **S28- Thanina Medjbeur - IRSD** – “Comparative analysis of dietary iron modulation in a murine model of colitis.”
- **S29- Lionel Dahan - CBI** – “Ventral tegmental area dopamine projections to the hippocampus trigger long-term potentiation and contextual learning.”
- **S30- Isabelle Lamsoul - Infinity** - “Fine-tuning levels of filamins an and b as a specific mechanism sustaining Th2 lymphocyte functions.”
- **S31- Caroline Conte - I2MC** – “Macromolecular Complex Including MLL3, Carabin and Calcineurin Regulates Cardiac Remodeling.”

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Organization committee members:

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|------------------|----------|
| Lilian Basso | Infinity |
| Laure David | IRSD |
| Natalia Smirnova | I2MC |
| Carine Froment | IPBS |
| Roxana Khazen | CRCT |
| Abdelhadi Saoudi | Infinity |
| Isabelle Saves | CBI-IPBS |

Administration:

Gestion : Sylvia Bouaskeur
Communication: Françoise Viala



Amphithéâtre Marthe Condat

Bâtiment administratif, Université de Toulouse (UT3)
118 Rte de Narbonne,
31400 Toulouse
point GPS : 43,56279, 1,46637

