

PROGRAMME

18^e JOURNÉES SCIENTIFIQUES

Réseau Francophone
de Métabolomique
et Fluxomique

LILLE,
19 - 22 MAI

2026



LILLE GRAND PALAIS
ATELIERS - INSTITUT GERNEZ RIEUX

<http://18-js-rfmf-2026.sciencesconf.org>



MARDI 19 MAI 2026

Ateliers — Institut Gernez Rieux (CHU Lille)

09h00 - 12h00 **CA RFMF**

12h00 - 14h00 Atelier Junior

14h00 - 16h00 Atelier "Découvrir Galaxy W4M"

14h00 - 16h00 Atelier "Nettoyage de données GC & LC-MS avec Cinderella"

16h00 - 18h00 Atelier "Vibe coding pour la métabolomique"

16h00 - 18h00 Atelier "Améliorer l'identification des métabolites et leur intégration dans un contexte multiomique: utilisation de la ressource MetaNetX"

MERCREDI 20 MAI 2026

Lille Grand Palais

09h00 - 09h20 **Bienvenue**

09h20 - 10h05 **Plénière 1** : Lynn Vanhaecke

From gastrointestinal metabolomics to pediatric precision medicine through source-based metabotyping

10h05 - 10h25 **Communications orales** :

O1 - Martin Jean-Charles

Xtremomics ou exploration métabolomique de l'adaptation humaine aux environnements extrêmes

10h25 - 11h00 **Pause + Posters**

11h00 - 11h40 **Communications orales**

O2 - Da Silva Célie

Multiblock Chemometric Approaches to Decode Multisource Molecular Signatures of Perceived Stress in Healthcare Students

O3 - Pagni Marco

Integration of Heterogeneous Biochemical Knowledge and Assembly of the Next Reconstruction of Human Metabolism with a Focus on Lipids

11h40 - 12h00 **Flashes session 1**

F01 - Defauwes Inès

Study of the impact of storage conditions on the stability of metabolites in fecal samples for 1H NMR metabolomics analysis

F02 - Boissin Louise

Steroidome quantification by online SPE for LC-HRMS: towards a systematic application in endometriosis research

F03 - Strassel Oriane

Surrogate Internal Calibration Strategies for Extended Absolute Quantification by LC-MS/MS

F04 - Delage Marie

Integration of 1D and fast 2D (UF-COSY, NUS-HSQC, NUS-TOCSY) NMR metabolomic and lipidomic datasets applied to mice liver samples

12h00 - 14h00 **Repas midi + Posters**

14h00 - 14h45 **Plénière 2** : Cédric Bertrand

Environmental Metabolic Footprinting (EMF) : Une approche métabolomique pour évaluer le devenir et l'impact des mélanges chimiques complexes

14h45 - 15h45 **Communications orales**

O4 - Diémé Binta

*Integrating metagenome-scale metabolic modelling and metabolomics to identify metabolic interactions in *Microcystis* phycospheres*

O5 - Pinheiro-Costa-Pimentel Mariana

Predictive metametabolomics unravels environmental drivers of spatial heterogeneity of microbial metabolome assemblage in aquatic periphyton

O6 - Campas Manon

One-year longitudinal follow-up to assess intra- and inter-individual metabolite variations in healthy volunteers

15h45 - 15h55 SPONSOR - THERMOFISHER

15h55 - 16h25 **Pause + Posters**

16h25 - 17h25 **Communications orales**

O7 - Terra Charles

Comparative Untargeted Metabolomic Profiling Reveals Virus-Specific Metabolic Reprogramming in Human Airway Epithelium Infected with SARS-CoV-2 and Influenza A Virus

O8 - Myridakis Antonis

Simultaneous targeted quantification and untargeted discovery of human serum metabolome: SQUAD Metabolomics

O9 - Grovel Olivier

Eco-inspired multicultures for the discovery of new antibiotics from marine fungi

17h25 - 17h45 **Flashes session 2**

F05 - Mekbel Katia

Du champ à l'assiette: transfert des effets du génotype et des procédés de transformation du colza sur la santé animale et humaine dans une approche One Health

F06 - Brosse Céline

Uncovering the diversity and ecological roles of glucosinolates in rapeseed seed exudates

F07 - Saccaram Chandrodhay

Seeds as ecosystem engineers: metabolomic programming of spermosphere microbial assembly and early-life resilience in common bean

F08 - Theil-Bazingette Mathilde

Comparison study of monocotyledonous and dicotyledonous seeds for their stilbenoid content

17h45 - 18h45 AG RFMF

19h00 - 21h00 Cocktail de bienvenue — Lille Grand Palais

JEUDI 21 MAI 2026

09h00 - 09h45 **Plénière 3** : Nicole van Dam

Metabolomics for plant and planetary health: Identifying natural plant compounds for crop resistance to insect pests

09h45 - 10h25 **Communications orales**

O10 - Goddard Mary-Lorène

Etude spatio-temporelle de l'interaction Vitis vinifera Neofusicoccum parvum par approches métabolomiques couplées à l'imagerie par spectrométrie de masse

O11 - Falana Nandiyath Achabi

Identification of S-methylcysteine sulfoxide biosynthesis pathways in Brassica species using ¹³C-fluxomics

10h25 - 10h50 **Pause + Posters**

10h50 - 11h50 **Communications orales**

O12 - Sancharme MéliSSa

Uncovering metabolic signatures of abiotic stress and germination in Camelina sativa seeds

O13 - Croutte Antoine

Metabogène : vers un nouvel outil d'annotation pour explorer la diversité biochimique de produits naturels du lin (Linum usitatissimum L.)

O14 - Dupire Francois

Impact of Toasting Temperature and Ethanol Concentration on Oak Wood Extract Composition: A Non-Targeted Metabolomic Analysis Using Ultra-High-Resolution Mass Spectrometry

11h50 - 12h10 **Flashes session 3**

F09 - Peti-Jean Eurydice

Deciphering the vanadium dependent haloperoxidase roles under oxidative stress in a brown alga using knock-out mutants, transcriptomic and metabolomic analyses

F10 - Le Cabec Audrey

Investigating conserved metabolites and associated biosynthetic pathway in seeds: The CoreSeedMet Project

F11 - Fournié Carla

Révéler l'inconnu : Anchor Based Molecular Networking, un outil pour l'identification des Nouveaux Produits de Synthèse

F12 - Gauvreau Julien

Integrated multi-block fast multi-dimensional NMR metabolomics and lipidomics

F13 - Andruszkow Léo

Deciphering mechanisms of service plants involved in the disruption of host plant recognition by a specialist insect herbivore thanks to complementary volatolomic approaches

12h10 - 12h20

SPONSOR SCIEX

12h20 - 14h00 **Repas midi + Posters**

14h00 - 14h45 **Plénière 4** : Tim Ebbels

Decoding the Metabolome: Intelligence, Integration, and Insight

14h45 - 15h25 **Communications orales**

O15 - Marchand Jérémy

Inter-laboratory evaluation of quantitative 2D 1H NMR for targeted metabolomic analysis of biofluids

O16 - Muller Coralie

Automated mapping of metabolomic compounds onto metabolic networks using MetaNetMap

15h25 - 15h35 SPONSOR AGILENT

15h35 - 16h10 **Pause + Posters**

16h10 - 16h30 **Communications orales**

O17 - Seck Serigne

NMRSCOUT: a dereplication tool integrating multi-dimensional NMR with machine learning

16h30 - 17h00 Membre d'honneur

17h00 - 18h45 Atelier mentorat

19h00 Dîner gala — Palais de la Bourse

VENDREDI 22 MAI 2026

9h00 - 9h45 **Plénière 5** : Manuel Liebeke

Mapping Host-Microbe Metabolic Interactions by Spatial Metabolomics

9h45 - 10h25 **Communications orales**

O18 - Schmitz Isabelle

Mass spectrometry imaging for biofilm metabolomics study

O19 - Raux Axel

Comprehensive SPE-LC-HRMS mapping of phase II steroid metabolites to reveal endometriosis complexity

10h25 - 10h45 **Pause + Posters**

10h45 - 11h25 **Communications orales**

O20 - Mangeon Louise

Development of Orbitrap Isotope Ratio Mass Spectrometry analytical workflow for Natural Abundance Fluxomics

O21 - Cahoreau Edern

Microbiota - Host interactions during juvenile growth: exploration of interconnected metabolic networks

11h25 - 11h55 Prix de thèse : Rolin-Portais

12h00 Clôture | À partir de 12h00 Panier repas