

CONGRÈS JUNIOR PLURIDISCIPLINAIRE DE L'UNIVERSITÉ PARIS-SACLAY

8 JUIN 2023

PROGRAM

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GRADUATE SCHOOL
Métiers de la Recherche
et de l'Enseignement
Supérieur

CONGRÈS JUNIOR PLURIDISCIPLINAIRE

Welcome to the 2023 University Paris-Saclay Pluridisciplinary Junior Conference!

The conference is organized by the **Graduate School Métiers de la Recherche et de l'Enseignement Supérieur (MRES)** with the help of the organizing, scientific and junior committees presented below.

Organizing Committee:

- Laure-Lise Chapellet (ENS Paris-Saclay, Chemistry) **Junior Conference Manager**
- Stéphanie Nowak (GS MRES) **Administrative assistant**
- Sarah Cohen-Boulakia (UFR Sciences, Computer Science)
- Nathalie Corbalan (AgroParisTech, Research and technology transfer)
- Bich-Liên Doan (CentraleSupélec, Computer Science)
- Keitaro Nakatani (ENS Paris-Saclay, Chemistry)
- Christine Duvaux-Ponter (AgroParisTech, Animal Science and Director of Doctoral Studies) **GS Deputy Director**
- Anne Lafosse (Université Paris-Saclay, Chemistry) **GS Deputy Director**
- David Néron (ENS Paris-Saclay, Mechanics) **GS Director**



Scientific Committee: The scientific committee is composed of the organization committee and members representing different graduate schools or 1st degree College of Paris-Saclay University.

- Pascal Aubert (École Universitaire de 1^{er} cycle, Université Paris-Saclay, Physics)
- Eddy Dumas (GS Chimie, Université de Versailles St-Quentin-en-Yvelines, Chemistry)
- Stefan Haar (GS Informatique et sciences du numérique, INRIA/ENS Paris-Saclay, Computer Science)
- Maryse Bresson (GS Education, Formation Enseignement, UVSQ, Sociology)
- Delphine Mika (GS Health and Drug, Université Paris-Saclay, Pharmacy)
- Pascale Rialland (GS Life Sciences and Health, ENS Paris-Saclay, Biology)
- Jean-Marie Mirebeau (GS Mathématiques, Université Paris-Saclay, Mathematics)
- Sylvain Gautier (GS Santé Publique, UVSQ, Medecine)
- Elodie Bethoux (GS Sociologie et Sciences Politiques, UVSQ, Sociology)
- Rafael Munoz Tamayo (GS Biosphéra, INRAE, Biology)

Junior Committee: The Junior Committee is composed of students helping in both the organization and the evaluation of the different presentations.

- Aka Doche (M2 AgroParisTech, Award winner of the 2022 the Junior Conference)
- Audrey Pollien (M1 ENS Paris-Saclay, Award winner 2022, elected member of the GS MRES council)
- Oriane de la Cropte de Chanterac (M1 AgroParisTech, elected member of the GS MRES council)
- Daniela Torres Diaz (PhD Student Université Paris-Saclay, elected member of the GS MRES council)
- Josué Moreau (PhD Student ENS Paris-Saclay, Award winner 2022, elected member of the GS MRES council)
- Léo Kunlinski (Student ENS Paris-Saclay et Award winner of the 2022 the Junior Conference)
- Jullien Mallétroit (PhD Student Paris-Saclay)
- Léa Chocron ((PhD Student Paris-Saclay)

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The conference takes place at the **ENS Paris-Saclay** that has kindly made available some of its resources (**human, technical and financial**) to help with the organization

The conference is also organized with the **financial support** of the **Institut DATAIA**.



You can find all the abstracts corresponding to the oral, poster and video presentation by visiting the conference webpage where you can click on the titles (<https://www.universite-paris-saclay.fr/qs-mres-congres-junior>) or by scanning the following flashcode:



For each category (oral presentation, poster, video) there is a prize awarded by the audience. **Please vote (votes closing at 19h45)** by visiting the conference webpage (<https://www.universite-paris-saclay.fr/qs-mres-congres-junior>) or by scanning the following flashcode:



The videos will be displayed among the oral presentations and are always available by scanning the flashcodes that are displayed among the posters. **All videos are eligible for the awards**, be sure to watch them before you vote.

In this program, the oral presentations are indexed from **O1 to O55** and presented like this:

O1	Student name	Presentation Title	Academic level	Institution	Individual or group presentation
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Videos are indexed from **V1 to V11** and presented like this:

V1	Student name	Presentation Title	Academic level	Institution	Individual or group presentation
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Posters are indexed from **P1 to P32** and presented like this:

P1	Student name	Presentation Title	Academic level	Institution	Individual or group presentation
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CONGRÈS JUNIOR PLURIDISCIPLINAIRE

12h30 – 13h30 Registration and poster session **Hall Emmy Noether**

Plenary session Lecture Hall Alain Aspect 13h30 – 16h15

13h30 – 14h Opening remarks and introduction

14h – 16h15 Oral presentations and 4 videos

O1	Amine Bouidder	<u>Synthesis of <i>Sinapoylaqmatin</i>, a Phytopathogen Infection Biomarker</u>	M1	Université Paris-Saclay	Individual presentation
O2	Gauthier Debuisschert and Matthieu Deschamps	<u>One electron reduced density matrix for molecular crystals at given temperature</u>	M1	CentraleSupélec	Group presentation
V5	Pietri Mélanie	<u>Production of biofuels from renewable resources: study of the sensitivity of microalgae to electroporation</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O3	Guillaume Barre	<u>Creation of artificial intelligence applied to the study of goat behaviour</u>	L3	AgroParisTech	Individual presentation
O4	Lola Leblond	<u>Comparative law of animal protection in France and India</u>	L3	Université de Versailles St-Quentin-en-Yvelines	Individual presentation
O5	Arnaud Feyel and Mathilde Lieury	<u>Spherical designs</u>	L3	Université Paris-Saclay	Group presentation
O6	Esther Gilles, Aida Boukamel, Meyssa Beghdad, Pauline Vittaz, Ben Hamou–Kuijpers Elsa, Chaouat Elsa and Beure Nathan	<u>Psonyx, a new virus discovered by undergraduate biology students</u>	L3	Université Paris-Saclay	Group presentation
V8	Lise Estournet, Inès Mezghani, Audrey Pollien and Nina Villette	<u>Aggregation-induced fluorescence emission and mechanoluminescence</u>	M1	Université Paris-Saclay and École normale supérieure Paris-Saclay	Group presentation
O7	Natacha Marjanovic	<u>“Be proud, and loud”: linguistic markers of pride in drag queens' spoken discourse</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O8	Clémence Sebe	<u>Information extraction of scientific workflows from English articles</u>	M2	Université Paris-Saclay	Individual presentation
O9	Camille Faber	<u>Finding an attractive kairomone for the biological control of <i>Eurytoma amygdali</i>, the almond wasp</u>	M2	Université Paris-Saclay	Individual presentation
V7	Jamy Lafenetre	<u>Real-time super-resolution: an explainable, hallucination-free alternative to deep learning</u>	M1	École normale supérieure Paris-Saclay	Individual presentation
O10	Charlotte Janson	<u>Saving differently: between citizen commitment and financial pragmatism. The case of the CIGALES</u>	M2	École normale supérieure Paris-Saclay	Individual presentation

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O11	Solène Delaporte	<u>Controlling structural stability through chemical functionalization in molybdenum-based metal-organic cages</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O12	Valentin Henriet	<u>Quantitative pH mapping in skeletal muscle by MRI: application to neuromuscular diseases</u>	M2	Université Paris-Saclay	Individual presentation
V6	Marie Jérôme	<u>Analysis of the circadian rhythm of Drosophila flies</u>	M2	CentraleSupélec	Individual presentation
O13	Tristan Gamot	<u>Wheat pathogen adaptation and early warning signals in an agro-eco-evolutionary model</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O14	George Marchment	<u>Similarity of scientific workflows</u>	M2	Université Paris-Saclay	Individual presentation

16h15 – 17h30 Poster session / Coffee break

Hall Emmy Noether

All the posters will be displayed during the whole session. However, students are expected to be present next to their posters to explain them according to the following schedule:

- **16h30 – 17h Presentation of posters with an even number**
- **17h – 17h30 Presentation of posters with an odd number**

17h30 – 19h30 Oral presentations in three parallel sessions in Lecture Hall Alain Aspect and the two Lecture Halls Simondon 1 and 2

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Parallel session Lecture Hall Alain Aspect 17h30 – 19h30

O15	Etienne Cochard et Loïc Feneyrou	<u>Hilbert's demonstration of Waring's problem</u>	L3	Université Paris-Saclay	Group presentation
O16	Maximilien Rouanet	<u>Les carrières scolaires, processus co-construit, générateur d'inégalités ?</u>	L3	Université de Versailles St-Quentin-en-Yvelines	Individual presentation
V9	Elizabeth Ruiz	<u>Study of strategies and geometric parameters in repair by wire deposition</u>	M1	École normale supérieure Paris-Saclay	Individual presentation
O17	Jean-Josué Tokpo	<u>Factors affecting the transmission rate of the COVID-19</u>	M1	Université Paris-Saclay	Individual presentation
O18	Noémie Worbe et Quentin Marquant	<u>Eosinophil's role in interstitial lung disease</u>	M2	Université Paris-Saclay	Group presentation
O19	Mathilde le Gressus	<u>The Eden effect of roadless areas: Can roadless areas improve species conservation status?</u>	M2	Université Paris-Saclay	Individual presentation
V11	Vivien Ducros	<u>Study of the c-join operation</u>	M1	École normale supérieure Paris-Saclay	Individual presentation
O20	Mélina Scopin	<u>Targeting TASK-3 leak potassium channels in mesial temporal lobe epilepsy</u>	M2	Université Paris-Saclay	Individual presentation
O21	Louis Védrine	<u>Discrete element study of size effect in quasi-brittle structures</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O22	Baptiste Arnaud	<u>Deciphering CAR-T cell dynamics in solid tumors <i>in vivo</i></u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O23	Paul Patault	<u>Dynamic formal verification</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
V10	Moncef El Moatamid	<u>Surrogate-based aerodynamic shape optimization of centrifugal compressors</u>	M2	CentraleSupélec	Individual presentation
O24	Sarah Manoury Battais	<u>3D chromatin conformation and epigenetic alterations involved in Ewing Sarcoma</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O25	Morgane Joly	<u>Peptides analysis using liquid chromatography coupled with mass spectrometry (LC-MS) in the context of osteoarthritis</u>	M2	Université Paris-Saclay	Individual presentation
O26	Baptiste Lorenzi	<u>Characterization of the contextual modulation of layer 1 interneuron activity during sensory processing</u>	M2	CentraleSupélec	Individual presentation
O27	Olivier Brisset	<u>Comparative study of historical demography in two Columbidae species: the Mauritian pink pigeon (<i>Nesoenas mayeri</i>) and the Madagascar turtle dove (<i>Nesoenas picturata</i>)</u>	M2	Université Paris-Saclay	Individual presentation

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Parallel session in English Lecture Hall Simondon 1 17h30 – 19h30

O28	Lucie-Garance Barot	<u>Study of the drought stress response among a maize panel</u>	L3	AgroParisTech	Individual presentation
O29	Yaelle Aidan	<u>Investigating the role of Nucleoporin 93 in breast cancer metastasis</u>	L3	École normale supérieure Paris-Saclay	Individual presentation
O30	Théo Prats Rioufol	<u>Ultra-low consumption neural network</u>	L3	CentraleSupélec	Individual presentation
V2	Baptiste Piguet	<u>Replication stress mapping in aged cells</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O31	Nina Granger	<u>"The fabled damned of nations": America, poetic ethos and decay in Allen Ginsberg's reading of Walt Whitman</u>	M1	École normale supérieure Paris-Saclay	Individual presentation
O32	Eva Dumesnil	<u>Which role has pollinators for our food security?</u>	M1	AgroParisTech	Individual presentation
O33	Mathieu Lordez	<u>Pluridisciplinary study of photo-switchable glycomacrocycles for metallic ions complexation</u>	M1	École normale supérieure Paris-Saclay	Individual presentation
O34	Luc Grasset et Théo Perrot	<u>Experimental characterization of added-mass force in dry granular matter</u>	M1	École normale supérieure Paris-Saclay	Group presentation
O35	Romane Moreau	<u>A sociophonetic study of Scottish rock bands' pronunciation</u>	M1	École normale supérieure Paris-Saclay	Individual presentation
V1	Victor Lopes de Souza	<u>Geometric group theory for everyone</u>	M2	CentraleSupélec	Individual presentation
O37	Jennifer Calderon Mora	<u>Probing the fluorescence of conjugated polymers in the vicinity of a plasmonic substrate</u>	M2	Université Paris-Saclay	Individual presentation
O38	Sadia Akter Prity	<u>Identification PARP (poly-ADP ribose polymerases) functions in NAD⁺-dependent acclimation to excess light in <i>Arabidopsis thaliana</i></u>	M2	Université Paris-Saclay	Individual presentation
O39	Pei Sun	<u>Numerical modeling of the mechanical behavior of paper</u>	M2	Université Paris-Saclay	Individual presentation
O40	Ellen Acquonoo Gyasi	<u>Flash irradiation: beneficial or not for non-specific immunity?</u>	M2	Université Paris-Saclay	Individual presentation
O41	Md Amit Hasan	<u>Monitoring motor neuron activity to decode behavior using calcium imaging in <i>Drosophila</i> larvae</u>	M2	Université Paris-Saclay	Individual presentation

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Parallel session Lecture Hall Simondon 2 17h30 – 19h30

O42	Audrey Pollien	<u>New photogenerated DNA intercalators for therapeutic purposes</u>	M1	École normale supérieure Paris-Saclay	Individual presentation
O43	Quentin Giton	<u>From satellites to microscopes, unmix data with deep learning</u>	M1	Université Paris-Saclay	Individual presentation
O44	Clara Martinot	<u>Investigation of ultra-rapid hypothermia through the total liquid ventilation of lungs</u>	M1	AgroParisTech	Individual presentation
V4	Lilian Seyve et Jad Zeroual	<u>How will quantum computers break your bank security?</u>	M2	CentraleSupélec	Group presentation
O45	Jules Ducept	<u>The political economy of green transition: evidence from EU allocation to French municipalities</u>	M2	Université Paris-Saclay	Individual presentation
O46	Hélène Lubrano Di Scampamorte	<u>Study of the parameters impacting the degradation of Aurora kinase A by PROTACs</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O47	Gaëtan Serré	<u>An overview of integral estimation methods</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O48	Aissatu Balde Camara	<u>Male infertility in Down syndrome: study of testicular cell subpopulations by ScRNAseq in mouse models</u>	M2	Université de Versailles St-Quentin-en-Yvelines	Individual presentation
O49	Bora Guloren	<u>Effect of reiterated high-intensity exercise on salivary biomarkers for top-elite athletes</u>	M2	Université Paris-Saclay	Individual presentation
V3	Arthur Colin et Thibault de Varax	<u>Causes and consequences of soil salinisation</u>	M2	CentraleSupélec	Group presentation
O50	Corentin Le Floc'h	<u>Study of the IL2-RG/JAK3 pathway in the immune response to human papillomavirus</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O51	Émile Larroque	<u>If you please – draw me a quantum algorithm!</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O52	Laury Batista	<u>Laser plasma acceleration - modelling the nonlinear laser wakefield using a fluid approach</u>	M2	Université Paris-Saclay	Individual presentation
O53	Margot Kandel	<u>Analysis of the impact of NAD+ levels on water stress resistance in Canola and Arabidopsis</u>	M2	Université Paris-Saclay	Individual presentation
O54	Yannis Monbru	<u>Towards automatic Diagram chasing</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
O55	Guillaume Blondy	<u>Pancreatic cancer: how sugars can help in the diagnostic</u>	M2	École normale supérieure Paris-Saclay	Individual presentation

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*Reminder: **Do not forget to vote (vote closing at 19h45)** by visiting the conference webpage (<https://www.universite-paris-saclay.fr/gs-mres-congres-junior>) or by scanning the following flashcode:*



19h30 – 20h30 Cocktail

Hall Emmy Noether

Starting at 20h30 Award ceremony

Hall Emmy Noether

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List of posters

P1	Lou-Léna Vrignaud	<u>Antiviral activities of monoclonal antibodies targeting SARS-CoV-2 Spike protein</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P2	Luca Froger	<u>Developing a sequent calculus in an abstract formalism: bringing back constructivity</u>	M2	CentraleSupélec	Group presentation
P3	Hélène Lubrano Di Scampamorte	<u>Molecular and functional study of the modulation of ASIC by endogenous lipids</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P4	Léa Couvidat	<u>What causes powder floating or submergence? An experimental study</u>	M2	AgroParisTech	Individual presentation
P5	Baptiste Ortheau Alberti	<u>Microbiology to design the school of the future</u>	M1	Université Paris-Saclay	Individual presentation
P6	Gauthier Debuisschert et Matthieu Deschamps	<u>One electron reduced density matrix for molecular crystals at given temperature</u>	M1	CentraleSupélec	Group presentation
P7	Nicolas Arrault	<u>Electrochemistry for electricity storage: new battery technologies</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P8	Ademola Adeniji	<u>Supercapacitors based on tetrazine functionalized graphene</u>	M2	Université Paris-Saclay	Individual presentation
P9	Daphné Hamilton-Jones	<u>Workshops for Transitions towards low-carbon futures</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P10	Shangaya Touraivane	<u>Nanoscale characterization of precursor damage in pathological dentin</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P11	Youssef El Hussein	<u>Determination of phospholipids isomerism by MS/MS And IMS in the presence of copper</u>	M2	Université Paris-Saclay	Individual presentation
P12	Leonard Darbeau	<u>A history of football in all its aspects</u>	M1	École normale supérieure Paris-Saclay	Group presentation
P13	Léonie Parisot	<u>A one-electron density matrix in the multipolar model</u>	L3	CentraleSupélec	Individual presentation
P14	Lucas Jacquier	<u>Prediction of Mediterranean fish occurrence by machine learning</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P15	Samy Delalay	<u>Role of PARP1 on cardiac mitochondrial biogenesis and influence of biological sex</u>	M2	Université Paris-Saclay	Group presentation
P16	Rafael Saucedo Lopez	<u>Assessment of SAMHD1 and OAS1 interaction in the context of HIV-1 and 2 infection</u>	M1	Université Paris-Saclay	Individual presentation
P17	Marie Delrieu	<u>Statistical study of Brazilian plant-pollinator networks</u>	L3	AgroParisTech	Group presentation

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P18	Théo Ternier	<u>Overlaying 2D and 3D datasets to better understand the structure of spatial grains</u>	M1	Université Paris-Saclay	Individual presentation
P19	Clémentin Léron	<u>Design of civil supersonic transport aircraft: use of an automation chain to reduce environmental impacts</u>	M1	CentraleSupélec	Individual presentation
P20	John Carlos	<u>Localization of Glycerophospholipid's double bond by mass spectrometry with alternative activation methods to collision-induced dissociation</u>	M2	Université Paris-Saclay	Individual presentation
P21	Camille Fourcault	<u>Effect of obesity on endometrial receptivity mediated by extracellular vesicles</u>	M2	Université Paris-Saclay	Individual presentation
P22	Armel Tene Tesse	<u>Effect of the stranding operation on the mechanical properties of drawn wires</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P23	Lindsay Goulet	<u>Automatic detection of contaminated metagenomic samples</u>	M2	Université Paris-Saclay	Individual presentation
P24	Jay Solanki	<u>Photon sphere and shadow of a time-dependent black hole described by a Vaidya metric</u>	M1	Université Paris-Saclay	Individual presentation
P25	Yousma Aboudou, Maysem Hachim, et Océane Menguy	<u>Discovery of new compounds with antibiotic properties by combinatorial chemistry</u>	M1	Université Paris-Saclay	Group presentation
P26	Pascale Bou Fadel	<u>Study of oral comfort provided by natural salivary substitutes when swallowing food</u>	M1	AgroParisTech	Individual presentation
P27	Gaspard Blondet	<u>Coupling plasticity and damage: towards a cohesive crack model</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
P28	Ludovic Trautmann	<u>Multichromatic radar interferometry for 3D reconstruction</u>	M2	CentraleSupélec	Individual presentation
P29	Esther Gilles, Aida Boukamel, Meyssa Beghdad, Pauline Vittaz, Ben Hamou–Kuijpers Elsa, Chaouat Elsa et Beure Nathan	<u>Psonyx, a new virus discovered by undergraduate biology students</u>	L3	Université Paris-Saclay	Group presentation
P30	Pablo Castro	<u>Model of activity propagation in conscious and unconscious states in primates' brains</u>	M2	Université Paris-Saclay	Individual presentation
P31	Thomas Hobbs	<u>The effect of metabolic alkalosis on the acute changes in mitochondrial respiration and lactate transport following high intensity exercise</u>	M2	Université Paris-Saclay	Individual presentation
P32	Emeric Hartmann et Martin Cesbron	<u>Electrostatic actuation for an electro-caloric cooling system</u>	M1	École normale supérieure Paris-Saclay	Group presentation

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List of videos

V1	Victor Lopes de Souza	<u>Geometric group theory for everyone</u>	M2	CentraleSupélec	Individual presentation
V2	Baptiste Piguet	<u>Replication stress mapping in aged cells</u>	M2	École normale supérieure Paris-Saclay	Individual presentation
V3	Arthur Colin et Thibault de Varax	<u>Causes and consequences of soil salinisation</u>	M2	CentraleSupélec	Group presentation
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