**PRESS RELEASE**
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# Université Paris-Saclay showcases its technology and innovation at the 2023 VivaTech trade fair

**Once again, this year, Université Paris-Saclay is a partner of the VivaTech trade fair, Europe's biggest start-up, innovation and tech event. This year's edition will take place from 14 to 17 June at Paris Expo Porte de Versailles. The University, its partners and start-ups will showcase technologies tackling a wide range of fields, including health, reduced $CO_2$ emissions, greener and more inclusive mobilities, and much more.**

Université Paris-Saclay, its innovation partners the accelerator 21st by CentraleSupélec, SATT Paris-Saclay and INCUBALLIANCE Paris-Saclay, along with the sixteen start-ups they have supported, will be at stand L17 to present their technologies and innovations. Come and meet the very best of what the innovation continuum has to offer!

Europe's leading start-up and tech event, the VivaTech trade fair showcases the innovations of the future and the entire value chain, from initial research to start-up launches.

As a major stakeholder in a technology cluster which represents 15% of French R&D, Université Paris-Saclay has chosen to place innovation at the very heart of its strategy, on the same level as research and teaching, making innovation an integral part of its missions.

While the societal challenges of our time, ranging from sustainable food, energy transitions to industrial renewal and decarbonised mobility solutions, will be met in part by scientific and technological advances, Université Paris-Saclay is committed to developing innovation which serves human development and respects the values of integrity and fairness.

The university encourages collaborative innovation for the benefit of society and a fair distribution of value through awareness-raising, trainings and support for students and staff in entrepreneurship, technology transfers and business creation, but also by supporting companies and strengthening their links with laboratories. A fruit of the research carried out in the university's laboratories, innovation contributes to job creation and ecological, digital and social transitions.

With over 300 research contracts signed with companies, numerous technologies from its laboratories being tested in SMEs and approximately thirty start-ups created each year, Université Paris-Saclay builds on its links with socio-economic partners to develop its research results and put them to use for the benefit of human development.

## The start-ups present on stand L17 with Université Paris-Saclay

### Wednesday 14 June

**Abbelight:** Abbelight is the result of ten years of academic research on **new detection methods in fluorescence microscopy**, co-led by Sandrine Lévèque-Fort (ISMO - Université Paris-Saclay, CNRS) and Emmanuel Fort (Institut Langevin - ESPCI Paris, CNRS). Supported by the SATT Paris-Saclay, Abbelight was created in 2016 to equip laboratories with super-resolution microscopes with

3D nanoscopy technology.

**Ethylowheel:** Ethylowheel develops, produces and commercialises **innovative alcohol detection methods for the automobile market.** The idea for the start-up was born from a student project carried out by Jaime Alonso, co-founder and CEO of the company, whilst studying as part of the Innovation-Entrepreneur course at the Institut d'Optique Graduate School. The solution is ergonomical, ecological and easy to incorporate into the steering wheels of both existing and future cars. It is able to detect a driver's blood alcohol level continuously, from the start until the end of the journey. Once the driver has placed their hands on the car's steering wheel, they will have an idea of their blood alcohol level thanks to a warning light and a mobile application. The start-up is supported by INCUBALLIANCE Paris-Saclay.

**Scienta Lab:** Scienta Lab is a Deep Tech company which uses Artificial Intelligence to transform research processes and pharmaceutical development in immunology and inflammation. **Thanks to its unique proprietary AI technology based on a foundation model, Scienta Lab speeds up the discovery of new therapeutic targets and the development of personalised treatments.** The company aims to meet the unanswered medical needs of over 400 million patients suffering from auto-immune diseases around the world. The start-up is supported by the accelerator 21st by CentraleSupélec.

**ALSYMO:** ALSYMO develops a **first-in-class drug** for a rare, debilitating and fatal disease: **Pulmonary Arterial Hypertension** (PAH), and more specifically, for its most severe form, Pulmonary Veno-Occlusive disease. The patented active ingredient counters vascular remodelling, i.e. the thickening of the vessels responsible for increased blood pressure in the lungs. The multidisciplinary founding team is made up of three academic researchers from Université Paris-Saclay (Sylvia Cohen-Kaminsky, CSO and the biologist responsible for the discovery of the target; Mouad Alami, expert in medicinal chemistry and molecule designer; Alain Pruvost, expert in pharmacology and analytical chemistry) and Rémi Delansorne, experienced CEO. The project was developed with the guidance of the SATT Paris-Saclay and the support of the Department for Research and Development at Université Paris-Saclay. Thanks to its collaboration with the National Reference Centre for Pulmonary Hypertension, led by Prof Marc Humbert, ALSYMO aims to provide proof of therapeutic efficacy for patients within five years.

**Thursday 15 June**

**Diamconcept:** Diamconcept creates lab-grown diamonds as part of a drive towards **ethical jewellery**. The start-up's method creates a plasma made of molecular hydrogen and methane. The plasma discharge is established in a microwave resonant cavity and is responsible for the creation of the key species for diamond growth, i.e. H atoms and C-containing radicals. These plasmas are ionised gas composed of electrons, ions and electronically excited species which create beautiful colours similar to those of the Northern Lights. The start-up was supported by INCUBALLIANCE.

**Kimilays**: Kimialys supports manufacturers of diagnostic tests and pharmaceutical laboratories with the development of innovative and sensitive tests which can be reproduced in any biological sample, using a chemical treatment applied to gold nanoparticles and chips. The technology was developed from research in surface chemistry applied to biosensing, carried out by Claude Noguès, a former researcher at the Laboratory of Biology and Applied Pharmacology (LBPA – Université Paris-Saclay, ENS Paris-Saclay, CNRS), and now co-founder of Kimialys. The unique, patented innovation has applications in the diagnosis of infectious diseases, the monitoring of patients undergoing immunotherapy and the detection and characterisation of biomarkers of therapeutic interest. The start-up was supported by the SATT Paris-Saclay.

**Zoe Care**: Zoe Care was born from an exciting encounter between a scientist and an entrepreneur. Piotr Antonik, a doctor in Physics and a lecturer in Artificial Intelligence at CentraleSupélec, has

carried out research on **human activity recognition using artificial neural networks (Machine Learning)** since 2018. In his lab, he uses electromagnetic signal perturbation (Wi-Fi) to identify the movements and gestures of the human body, with excellent accuracy. This work has created numerous opportunities for real-life applications. His encounter with Thomas Saphir, also a CentraleSupélec engineer, and an entrepreneur with extensive knowledge on the Internet of Things (IoT), led to the creation of Zoe Care, a start-up specialised in a field of great importance to the duo: **the healthcare of elderly people**. The start-up was supported by the SATT Paris-Saclay.

**SPARK**: the future start-up SPARK develops an **innovative technology to reduce the $CO_2$ emissions produced during conventional hydrogen production.** Its unique process will be of great interest to companies wanting to reduce their carbon footprint and production costs, as well as the future operators of hydrogen fuelling stations, in France and around the world. The SPARK project, which takes its name from the nanosecond plasma regime system it uses, was born from a PhD thesis carried out by Erwan Pannier, a doctor at the Laboratory of Macroscopic and Molecular Energy and Combustion (EM2C – Université Paris-Saclay, CentraleSupélec, CNRS). The start-up is supported by the accelerator 21st by CentraleSupélec.

**Friday 16 June**

**WiN MS**: WiN Ms offers solutions which reduce the risks linked to wiring and connection malfunctions. The company designs and commercialises **immediate diagnostic tools for aircraft maintenance and monitoring solutions for complex wired infrastructure to combat cable theft**. The start-up is supported by INCUBALLIANCE Paris-Saclay.

**Cocoparks**: Cocoparks has revolutionised parking and the management of parking facilities to reduce urban pollution by 10%, improve mobility in cities and boost local businesses. The company offers an **extensive smart parking solution, which includes a smart detector**. The solution is both easy to deploy and significantly more efficient than traditional technologies. Parking information is communicated to users via a mobile application and panels, and informs local decision-makers via a dedicated software. French cities such as Bordeaux, Sens, Bayonne, Saint Denis and Saint Joseph have already adopted the solution. The start-up is supported by the accelerator 21st by CentraleSupélec.

**VitaDX:** VitaDX develops an **early diagnosis solution for bladder cancer**, based on a patented fluorescence technology developed at the Orsay Institute for Molecular Sciences (ISMO - Université Paris-Saclay, CNRS), and image analysis and statistical learning algorithms. Designed by researchers and engineers, the start-up has grown from strength to strength since its creation in 2015, from an ambitious project to a very promising success story today. The start-up is supported by the Department for Research and Development at Université Paris-Saclay.

**Kalysta:** Kalysta commercialises **high performance actuators for on-board mechatronic applications which need optimised motion**. The start-up gives great importance to the simplicity of its technology and ease of use to allow for the industrial development of new applications whilst simplifying system architecture. The start-up was supported by the SATT Paris-Saclay.

**Saturday 17 June**

**Volting:** First developed at the Versailles Systems Engineering Laboratory (LISV – Univ. Paris-Saclay, UVSQ), and currently being supported by the SATT Paris-Saclay, Volting develops an **electric wheelchair with increased and emotional mobility**, allowing users to enjoy free upper body movement. The solution gives users the opportunity to enjoy greater physical activity with numerous benefits (physical and psychological) and applications: art, leisure, sport and

physiotherapy.

**Carembouche:** Created in 2021, Carembouche uses a **probiotic developed** during the project LactoInside at the Laboratory for Food Microbiology for Human Health (MICALIS - Univ. Paris-Saclay, INRAE, AgroParisTech). The company aims to **improve the calorie intake** of people who are undernourished to meet their nutritional needs. The start-up is supported by INCUBALLIANCE.

**SereniDrink**: SereniDrink was created as part of the Innovation-Entrepreneurs programme at the Institut d'Optique Graduate School. The start-up has developed **a solution which can identify the composition of drinks served during festive occasions**, in order to eliminate the risk of drink spiking and the number of date-rape victims and assaults. The start-up was supported by the PEIPS network.

**LSC Technologies**: LSC Technologies is a start-up created by five students from the Institut d'Optique Graduate School in collaboration with two researchers from the Charles-Fabry Laboratory (IOGS/Univ. Paris-Saclay/CNRS). The technology focuses on luminescent concentrators which provide accurately controlled lighting. The technology, developed in the Charles-Fabry laboratory, is protected by three patents. The SkinLight product uses **luminescent concentrator technology to improve the light sources used in dermatology, covering a wide range of applications, from skin cancer treatment to acne and permanent hair removal**. By improving traditional pulsed light machines, SkinLight allows for more efficient use of these machines. The start-up was supported by the PEIPS network.

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## *ABOUT UNIVERSITÉ PARIS-SACLAY*

Université Paris-Saclay was born from the shared ambition of French universities, *grandes écoles* and national research organisations. As a leading university in Europe and the world, it covers the fields of science and engineering, life sciences and health, and humanities and social sciences. The university's science policy closely intertwines research and innovation, incorporating both basic and applied science to tackle major societal challenges. Université Paris-Saclay offers a varied range of undergraduate to doctorate level degrees, including programmes with its *grandes écoles*, all of which are focused on achieving student success and employability. The university prepares students for an ever-changing world where the ability to think critically, remain agile and renew one's skills are crucial. Université Paris-Saclay also offers a comprehensive range of lifelong learning courses. Located to the south of Paris, the university extends across a vast and rich local area. Its location strengthens both its international visibility and its close ties with its socio-economic partners (major companies, SMEs, start-ups, local authorities, charities).

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