



- Press release -

## Carbios Announces Strategic Alliance with the National Institute of Applied Sciences of Toulouse (INSA)

- **Carbios and TBI (Toulouse Biotechnology Institute) set up an enzyme engineering research center of international scale on plastic recycling and biosynthesis.**

**Clermont-Ferrand, January 17<sup>th</sup>, 2020 (6:45 am CET)** – CARBIOS (Euronext Growth Paris: ALCRB), a French green chemistry company based in Clermont-Ferrand, announced today a strategic alliance with INSA Toulouse through the internationally recognized laboratory "Toulouse Biotechnology Institute", a mixed research unit INSA Toulouse, INRA, CNRS.

Carbios is establishing, with TBI, a research center for enzymatic engineering, which will be focused on plastic recycling and biosynthesis. This laboratory, unprecedented in the world of enzymatic engineering and dedicated to plastic applications, will be inaugurated on January 28, 2020, at INSA Toulouse.

The cooperative laboratory, called "PoPLaB" (Plastic Polymers and Biotechnologies), is the culmination of seven years of scientific collaboration. This collective work led in 2016, to the creation of Carbiolice, Carbios' subsidiary, dedicated to PLA biodegradation and in 2019, to the first 100% PET plastic bottles produced through Carbios' biorecycling process.

Carbios also announced that it is becoming a member of the INSA Toulouse Foundation, an initiative that strengthens the links between the two entities. The Foundation makes a significant contribution to the training and international openness of students and scientific executives specifically with the creation of a program "Biotechnologies and Environment".

**Prof. Alain MARTY, Scientific Director of CARBIOS comments:** *"The creation of this laboratory represents several years of fruitful research devoted to the discovery and optimization of enzymes for the degradation and synthesis of polymers. This laboratory will benefit from state-of-the-art equipment in terms of enzyme modeling and understanding of plastic hydrolysis molecular mechanisms, high-throughput enzyme evolution platforms, all based on highly qualified researchers. This will enable us to take up new challenges by enlarging the range of polymers accessible to our enzymatic technology."*

**Jean-Claude LUMARET, CEO of CARBIOS:** *"Carbios wishes to actively support the INSA Foundation because more than a vision, we share a common ambition: To contribute through innovation and research to a sustainable world that is respectful of our shared environment."*

**Bertrand Raquet, Director of INSA Toulouse adds:** *"This is an exemplary partnership where an innovative company accelerates its technological research by establishing itself at the heart of our campus. The approach is twofold: together, we are creating a cooperative laboratory, by combining the expertise of Carbios, INSA, INRA, and CNRS for a new generation of plastics, degradable and recyclable. And together, we are developing the INSA model, with the support of the Foundation. Our engineering students and doctoral students, supported in their diversity, mobilize their expertise in biotechnologies and bioprocesses and engage in entrepreneurial approaches, for a sustainable world."*

## **About Carbios:**

[Carbios](#) is a green chemistry company whose innovations meet the environmental and sustainable development challenges facing manufacturers. Since its creation in 2011 by [Truffle Capital](#), the Company has developed, through biotechnology, two industrial processes that revolutionize the biodegradation and recycling of polymers. These innovations, a world first, optimize the performance and life cycle of plastics and textiles by exploiting the properties of highly specific enzymes.

Carbios' economic development model is based on the industrialization and commercialization of its products and/or enzymes, technologies and bioprocesses through license concessions directly or through joint ventures to major industrial players or sectors concerned by the Company's innovations. As such, Carbios created the joint venture Carbiolice in September 2016, in partnership with Limagrain Ingredients and the SPI fund operated by Bpifrance. This company, of which Carbios has majority control, will exploit the first technology licensed by Carbios by producing enzymatic granules to produce biodegradable and biobased plastics.

Carbios benefits from the qualification "Innovative Company" of Bpifrance allowing the eligibility of the Company's securities for the investment of Mutual Funds Placement in Innovation (FCPI). For more information, please visit: [www.carbios.fr](http://www.carbios.fr)

Carbios is eligible for the PEA-PME, a government program allowing French residents investing in SMEs to benefit from income tax rebates.



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