



-Press release-

Carbios announces the publication of an article on its enzymatic recycling technology in the prestigious scientific journal Nature

- *This publication outlines Company's proprietary process for converting plastic waste into new bottles - a breakthrough towards a circular economy*

Clermont-Ferrand, France, April 8th, 2020 (06:00 PM CEST) - [CARBIOS](#) (Euronext Growth Paris: ALCRB), a company pioneering new bio-industrial solutions to reinvent the lifecycle of plastic and textile polymers, announces the publication of an article in the prestigious scientific journal Nature, entitled *"An engineered PET-depolymerase to break down and recycle plastic bottles"*. The article is co-authored by scientists at Carbios and at the Company's renowned academic partner, the Toulouse Biotechnology Institute¹ (TBI).

The article describes the development of a novel enzyme, which can biologically depolymerize all polyethylene terephthalate (PET) plastic waste, followed by an extremely efficient recycling into new bottles. PET is the most common thermoplastic polymer and is used to manufacture bottles, polyester clothing fibers, food containers, and various thermoformed packaging and components. Carbios' recycling process, the first of its kind, initiates a real transition to a circular economy and can better prevent plastic pollution from harming our oceans and planet. This innovative technology also paves the way for recycling PET fibers, another major challenge in guaranteeing a clean and protected environment for future generations.

Prof. Alain Marty, Carbios' Chief Scientific Officer and co-author of the Nature article says: *"I am very proud that Nature, one of the most highly respected scientific journals in the world, has validated the quality of the research led by Carbios and TBI laboratory scientists in developing a PET recycling enzyme and a revolutionary process. The results obtained confirm the industrial and commercial potential of the Company's proprietary process, which will be tested in 2021 in our demonstration plant in the heart of the French Chemical Valley, near Lyon."*

Sophie Duquesne, INRAE Researcher: *"For any researcher, seeing its work recognized by the prestigious journal Nature is a true achievement. I am very proud of the work accomplished by the researchers at TBI and Carbios, whose collaborative efforts have led to the development of a sustainable solution to the end of life of plastics."*

Dr. Saleh Jabarin, Distinguished Professor at The University of Toledo, Ohio and a member of Carbios' Scientific Committee: *"It's a real breakthrough in the recycling and manufacturing of PET. Thanks to the innovative technology developed by Carbios, the PET industry will become truly circular,*

¹ : A mixed research unit INSA Toulouse, INRAE, CNRS.

which is the goal for all players in this industry, especially brand-owners, PET producers and our civilization as a whole.”

Bertrand Piccard, Founder and President of the Solar Impulse Foundation: *“I am very pleased that the scientific community recognizes one of the solutions labelled by the Solar Impulse Foundation as a financially profitable solution to protect the environment. The use of such technology is as logical as it is ecological!”*

Nature, the highest *Impact Factor* scientific journal, recognizes the ground-breaking quality of the enzymatic engineering research being done by Carbios and TBI, that is paving the way to virtuous management of plastic waste. *“Carbios is the first company to successfully combine the two scientific worlds of enzymology and plastics”*, as **Dr. Philippe Pouletty, CEO of Truffle Capital and Co-founder of Carbios**, comments.

By leveraging many years of experience with a world-renowned team, Carbios and TBI are proud to have been able to increase the degradation yield of PET waste to 90% in 10 hours, a significant upswing from the initial degradation yield of 1% after several weeks. This paradigm shift in how effectively PET can be recycled, is leading toward a future circular economy technology applicable to all PET waste, which Carbios is proud to be spearheading.

To read the article in Nature, please find the link here:

<https://www.nature.com/articles/s41586-020-2149-4>

About Carbios:

[Carbios](#) is a green chemistry company whose innovations help address 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 world-first innovations, made possible with the support of Bpifrance (THANAPLAST™ project), enable to optimize the performance and lifecycle 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 for the production of 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

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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About Truffle Capital:

Established in 2001, Truffle Capital is a leading European Venture Capital company, specializing in breakthrough life sciences and FinTech technologies. Truffle Capital supports the creation and growth of young innovative companies capable of becoming tomorrow's leaders. Headed by Patrick Kron, chairman, alongside cofounders and co-CEOs Philippe Pouletty, MD, and Bernard-Louis Roques, Truffle Capital has raised over €1.1 billion and has supported over 75 companies in the digital technology and life sciences sectors.

For more information: www.truffle.com – Twitter: @trufflecapital

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