



PRESS RELEASE

Collectis Granted Patent for CRISPR Use in T-Cells

July 24, 2017 – New York (N.Y.) – Collectis (Alternext: ALCLS; Nasdaq: CLLS), a clinical-stage biopharmaceutical company focused on developing immunotherapies based on gene-edited CAR T-cells (UCART), today announced the grant by the European Patent Office of patent No. EP3004337 for the invention of using RNA-guided endonucleases, such as Cas9 or Cpf1 for the genetic engineering of T-cells. The patent will be issued on August 2, 2017.

This therapeutic-focused patent follows previous intellectual property that Collectis has obtained over the two last decades for major gene editing technologies including meganucleases, TALEN[®], MegaTAL and CRISPR.

“Collectis is a pioneering gene editing company that has always been at the forefront of all gene editing technologies,” said Dr. André Choulika, Collectis Chairman & CEO. “We have been the first to explore the potential of CRISPR in its early days in various applications, including therapeutics and food, and these early findings ultimately led to the grant of this new patent. While Collectis has selected TALEN[®] as the most robust and adaptable technology for human therapeutic use and for the Company’s product pipeline, our team does sometimes use CRISPR-based nucleases for T-cell research, as it is a less-expensive option and convenient for gene discovery purposes. As such, this patent only further reinforces Collectis’ leadership position in the gene editing industry, with more patents coming down the pike for the Company in the near future.”

Convinced of its strong value for future development of engineered CAR T-cells, Collectis will make this patent available for licensing to companies that are willing to use this technology in T-cells.

The inventors of this patent are Dr. André Choulika, Chairman & CEO of Collectis and one of the pioneers in the development of nuclease-based genome editing technologies; Dr. Philippe Duchateau, Collectis Chief Scientific Officer and seasoned gene editing expert and Dr. Laurent Poirot, Collectis Head of Early Discovery and expert of gene functions in immune cells.

Claim 1 of the EP3004337 patent

- 1) A method of preparing T-cells for immunotherapy comprising the steps of:
 - (a) Genetically modifying T-cells by introduction into the cells and/or expression in the cells of at least:
 - a RNA-guided endonuclease; and
 - a specific guide RNA that directs said endonuclease to at least one targeted locus in the T-cell genome,

wherein said RNA-guided endonuclease is expressed from transfected mRNA, and said guide RNA is expressed in the cells as a transcript from a DNA vector;
(b) expanding the resulting cells in vitro.

About Collectis

Collectis is a clinical-stage biopharmaceutical company focused on developing a new generation of cancer immunotherapies based on gene-edited T-cells (UCART). By capitalizing on its 17 years of expertise in gene editing – built on its flagship TALEN® technology and pioneering electroporation system PulseAgile – Collectis uses the power of the immune system to target and eradicate cancer cells. Using its life-science-focused, pioneering genome engineering technologies, Collectis’ goal is to create innovative products in multiple fields and with various target markets. Collectis is listed on the Nasdaq market (ticker: CLLS) and on the NYSE Alternext market (ticker: ALCLS). To find out more about us, visit our website: www.collectis.com

Talking about gene editing? We do it. TALEN® is a registered trademark owned by the Collectis Group.

For further information, please contact:

Media contacts:

Jennifer Moore, VP of Communications, 917-580-1088, media@collectis.com
Caitlin Kasunich, KCSA Strategic Communications, 212-896-1241, ckasunich@kcsa.com

IR contact:

Simon Harnest, VP of Corporate Strategy and Finance, 646-385-9008, simon.harnest@collectis.com

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