

Celyad publiceert bijkomende preklinische gegevens die THINK-onderzoek ondersteunen

- Evaluatie van preklinisch werk met NKR-2 gepubliceerd in Future Oncology
- *In vitro* werkzaamheid bij verschillende kankermodellen
- *In vivo* bewijs voor werkzaamheid in een humaan pancreasmodel

Mont-Saint-Guibert, België – Celyad (Euronext Brussel en Parijs, en NASDAQ: CYAD), een leider op het gebied van de ontdekking en ontwikkeling van gespecialiseerde celgebaseerde CAR-T behandelingen, kondigt aan dat het in het collegiaal getoetste tijdschrift “Future Oncology” een speciaal rapport publiceert over het preklinische werk dat is verricht met NKR-2, de CAR-T-celtherapie die het bedrijf momenteel aan het testen is in het THINK-onderzoek.

Het speciaal rapport van Celyad met als titel *Exploiting Natural Killer Group 2D Receptors for CAR-T cell therapy* verschaft nieuwe resultaten die bevestigen dat CAR-T NKR-2 cellen *in vitro* werkzaam zijn tegen verscheidene menselijke kankercellijnen zoals leukemie, colorectale kanker en pancreaskanker. Daarnaast blijkt uit nieuwe gegevens dat CAR-T NKR-2 cellen werkzaam zijn bij xenograften met pancreaskanker bij gehumaniseerde muismodellen.

Deze preklinische onderzoeken werden gedaan met professor Charles Sentman, die reeds lange tijd met Celyad samenwerkt. Ze vormen een bijkomende bevestiging voor de indicaties die zijn gekozen om in het momenteel lopende THINK-onderzoek getest te worden.

Dr. David Gilham, VP Research & Development bij Celyad: *“Deze publicatie biedt belangrijk bijkomend preklinisch bewijs voor de verschillende kankerindicaties die we gekozen hebben om te testen in het THINK-onderzoek. Dit is een voorbeeld van onze voortdurende inspanningen om de werkingsmechanismen van CAR-T NKR2 cellen verder te doorgronden en te begrijpen om zo een beter inzicht te verwerven dat onze klinische ontwikkeling verder ondersteunt.”*

Dr. Christian Homsy, CEO van Celyad: *“We zijn verheugd dat we bijkomend preklinisch bewijs kunnen verstrekken ter bevestiging van onze aanpak in het THINK-onderzoek, waarmee we moeten kunnen aantonen dat CAR-T NKR-2-cellen een potentieel baanbrekende technologie vormen voor het behandelen van kanker.”*

Celyad’s speciaal rapport is beschikbaar op de website van Future Oncology:
<http://www.futuremedicine.com/doi/abs/10.2217/fon-2017-0102>

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About Celyad

Celyad is a clinical-stage biopharmaceutical company focused on the development of specialized CAR-T cell based therapies. The company utilizes its expertise in cell engineering to target cancer. Celyad's Natural Killer Receptor based T-Cell (NKR-T) platform has the potential to treat a broad range of solid and hematologic tumors. Its lead oncology candidate, the CAR-T NKR-2, has been evaluated in a single dose escalation Phase I clinical trial to assess the safety and feasibility of CAR-T NKR-2 cells in patients suffering from AML or MM. This Phase I study was successfully completed in September 2016. Celyad was founded in 2007 and is based in Mont-Saint-Guibert, Belgium, and Boston, Massachusetts. Celyad's ordinary shares are listed on the Euronext Brussels and Euronext Paris exchanges, and its American Depositary Shares are listed on NASDAQ Global Market, all under the ticker symbol CYAD.

For more information about Celyad, please visit: www.celyad.com

About the THINK trial

THINK (Therapeutic Immunotherapy with NKR-2) is a multinational (EU/US) open-label Phase Ib study to assess the safety and clinical activity of multiple administrations of autologous CAR-T NKR-2 cells in seven refractory cancers, including five solid tumors (colorectal, ovarian, bladder, triple-negative breast and pancreatic cancers) and two hematological tumors (acute myeloid leukemia and multiple myeloma).

The trial will test three dose levels adjusted to body weight: up to 3×10^8 , 1×10^9 and 3×10^9 CAR-T NKR-2 cells. At each dose, the patients will receive three successive administrations, two weeks apart, of CAR-T NKR-2 cells. The dose escalation part of the study will enroll up to 24 patients while the extension phase would enroll 86 additional patients.

About Celyad's NKR-T Cell Platform

Celyad is developing a unique CAR-T cell platform, using Natural Killer Receptor (NKR) transduced on to T lymphocytes. The platform targets a wide range of solid and hematological tumors. Unlike traditional CAR-T cell therapy, which target only one tumor antigen, Natural Killer (NK) cell receptors enable a single receptor to recognize multiple tumor antigens. Celyad's lead candidate, CAR-T NKR-2, is a CAR-T-Cell engineered to express the human NK receptor, NKG2D, which is an activating receptor. CAR-T NKR-2 triggers cell killing through the binding of NKG2D to any of eight naturally occurring ligands that are known to be overexpressed on more than 80% of tumors.

Preclinical results indicate that CAR-T NKR-2 has multiple mechanisms of actions and goes beyond direct cancer cell killing. It inhibits the mechanisms that enable tumors to evade the immune system, activates and recruit anti-tumor immune cells and disrupts the blood supply to the tumor. These mechanisms promote the induction of adaptive immunity, meaning the development of a long-term immune memory against specific tumor antigens of the targeted tumor.

In contrast to traditional CAR-T therapeutic approaches, and based on strong preclinical evidence, Celyad's current CAR-T NKR-2 program does not use patient lymphodepleting pre-conditioning, thereby avoiding the toxicities associated with chemotherapy and allowing the immune system to remain intact.

Celyad is developing both autologous and allogeneic CAR-T NKR-2 approaches. For autologous CAR-T NKR-2, Celyad collects the patient's own T-Cells and engineers them to express NKG2D in order to target cancer cells effectively. Celyad's allogeneic platform engineers the T-Cells of healthy donors, to also express TCR Inhibitory Molecules (TIMs), to avoid having the donor cells rejected by the patient's normal tissues (also called Graft vs. Host Disease).

The preclinical research underlying this technology was originally conducted at Dartmouth College by Dr. Charles Sentman and has been published extensively in peer-reviewed publications.

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Forward looking statements

In addition to historical facts or statements of current condition, this press release contains forward looking statements, including statements about the potential safety and feasibility of CAR-T NKR-2 cell therapy, which reflect our current expectations and projections about future events, and involve certain known and unknown risks, uncertainties and assumptions that could cause actual results or events to differ materially from those expressed or implied by the forward-looking statements. These forward looking statements are further qualified by important factors, which could cause actual results to differ materially from those in the forward-looking statements, including risks associated with conducting clinical trials; the risk that safety, bioactivity, feasibility and/or efficacy demonstrated in earlier clinical or pre-clinical studies may not be replicated in subsequent studies; risk associated with the timely submission and approval of anticipated regulatory filings; the successful initiation and completion of clinical trials, including Phase I clinical trial for CAR-T NKR-2; risks associated with the satisfaction of regulatory and other requirements; risks associated with the actions of regulatory bodies and other governmental authorities; risks associated with obtaining, maintaining and protecting intellectual property, our ability to enforce our patents against infringers and defend our patent portfolio against challenges from third parties; risks associated with competition from others developing products for similar uses; risks associated with our ability to manage operating expenses; and risks associated with our ability to obtain additional funding to support our business activities and establish and maintain strategic business alliances and business initiatives. A further list and description of these risks, uncertainties and other risks can be found in the Company's Securities and Exchange Commission filings and reports, including in the Company's Annual Report on Form 20-F filed with the SEC on April 8, 2016 and future filings and reports by the Company. Given these uncertainties, the reader is advised not to place any undue reliance on such forward-looking statements. These forward-looking statements speak only as of the date of publication of this document. The Company expressly disclaims any obligation to update any such forward-looking statements in this document to reflect any change in its expectations with regard thereto or any change in events, conditions or circumstances on which any such statement is based, unless required by law or regulation.