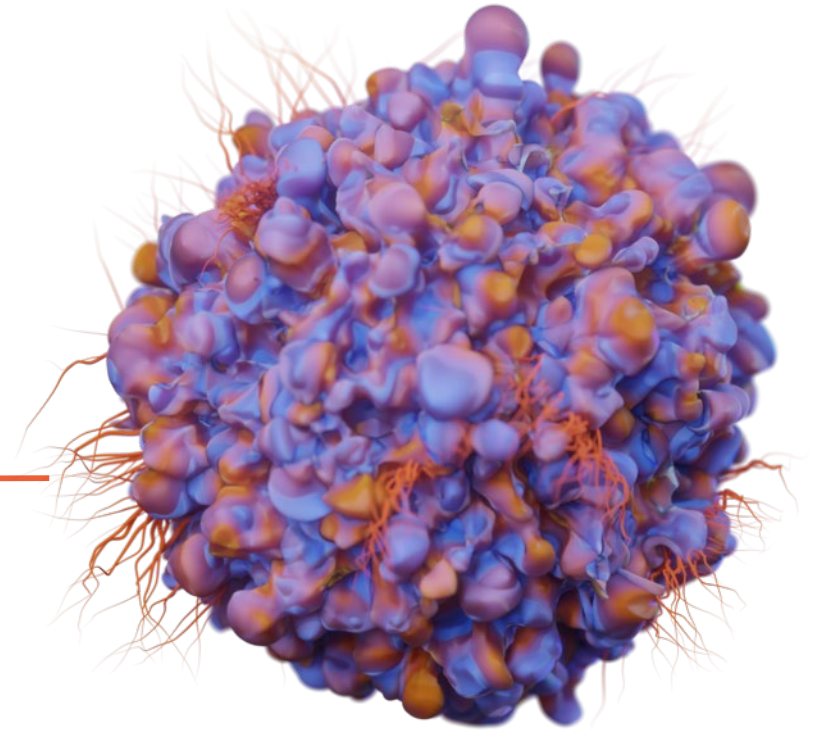




Next-generation CAR T-cell therapies engineered to
disrupt the tumor microenvironment

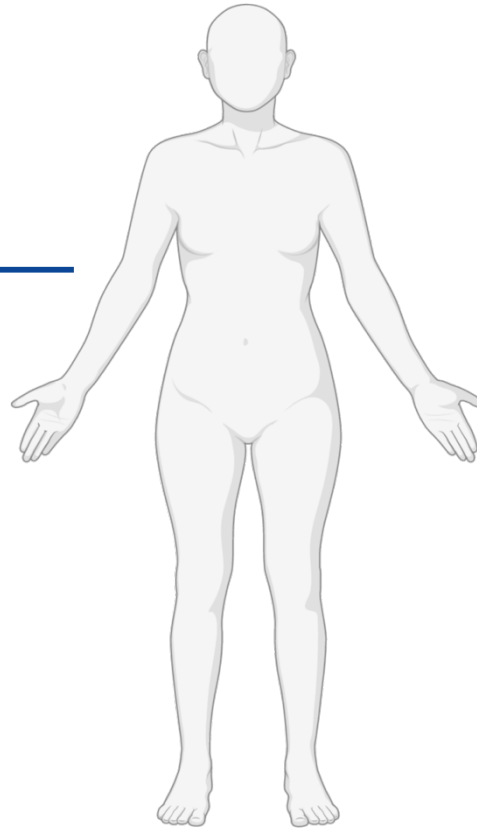


B-cell non-Hodgkin's lymphoma

A global burden for patients and healthcare systems



Most common type of
blood cancer

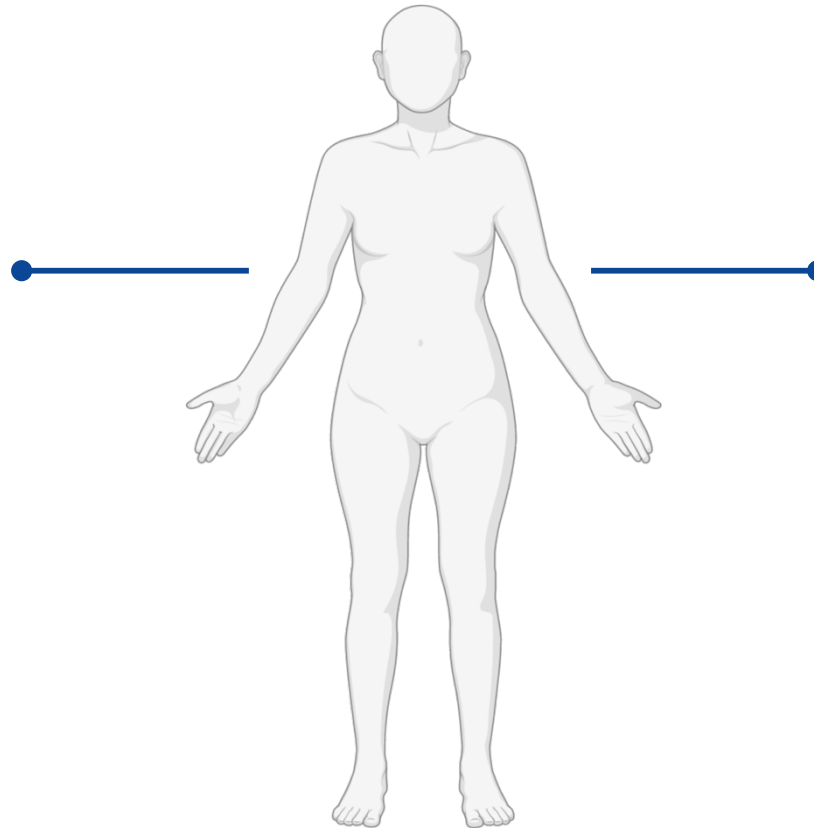


B-cell non-Hodgkin's lymphoma

A global burden for patients and healthcare systems



Most common type of
blood cancer



≈ 500.000 people newly
diagnosed each year

B-cell non-Hodgkin's lymphoma

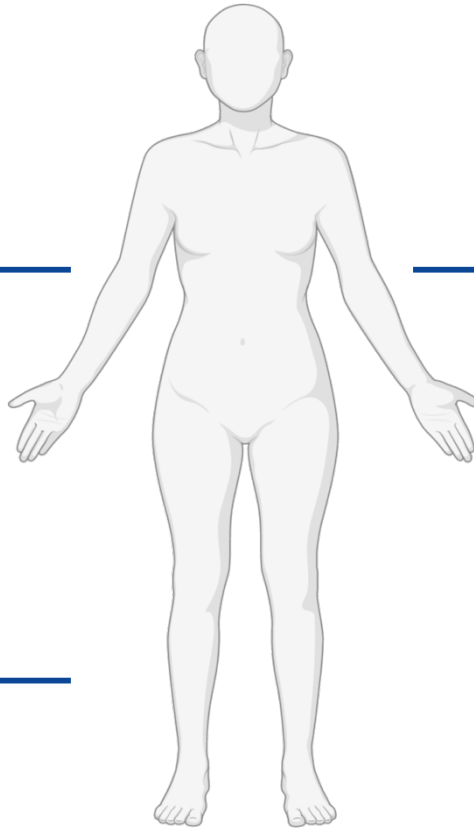
A global burden for patients and healthcare systems



Most common type of
blood cancer



≈ 250.000
annual deaths



≈ 500.000 people newly
diagnosed each year

B-cell non-Hodgkin's lymphoma

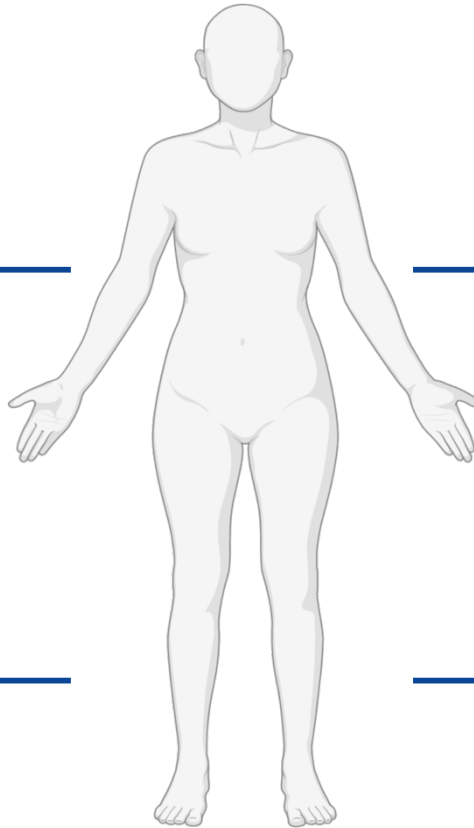
A global burden for patients and healthcare systems



Most common type of
blood cancer



≈ 250.000
annual deaths



≈ 500.000 people newly
diagnosed each year



Immunotherapy as
salvage strategy

Commercially available CARs target CD19 as tumor antigen

High unmet medical need: treatment failures occur in every second patient



Current therapies:

4 anti-CD19 CAR T-cell products¹



50% relapse

¹Kymriah (Novartis) , Yescarta (Kite Pharma), Tecartus (Kite Pharma), and Breyanzi (Juno Therapeutics)

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Current therapies:

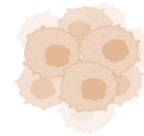
4 anti-CD19 CAR T-cell products¹



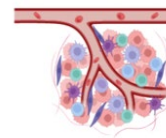
50% relapse



Challenges:



1) Antigen escape

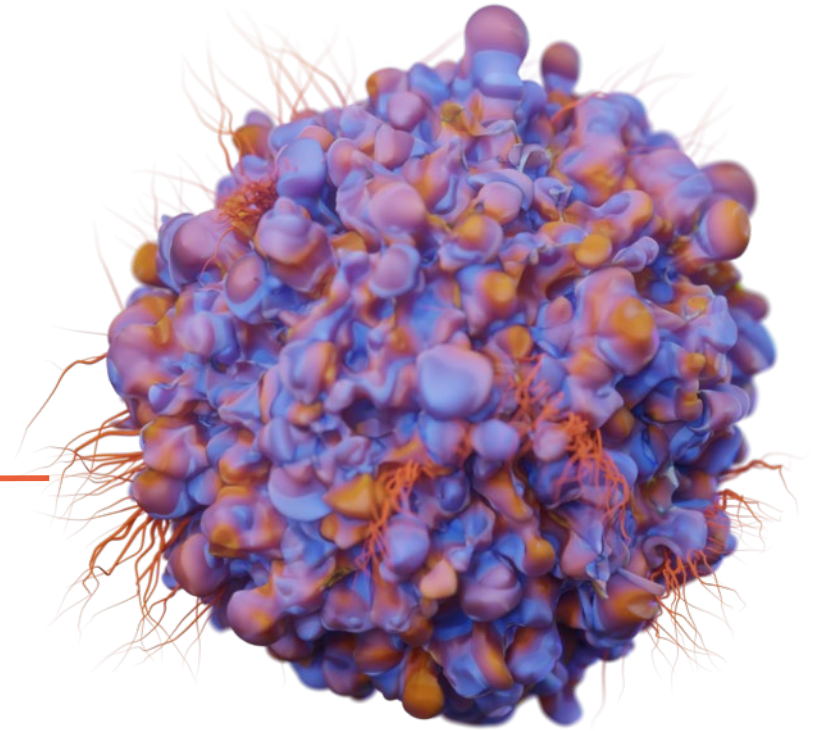


2) Tumor microenvironment

¹Kymriah (Novartis) , Yescarta (Kite Pharma), Tecartus (Kite Pharma), and Breyanzi (Juno Therapeutics)



Next-generation CAR T-cell therapies engineered to
disrupt the tumor microenvironment



CARtemis unravels the next-generation of CAR T-cells

Anti-CXCR5 CAR with the potential to prevent relapses



CXCR5 as novel target antigen to
avoid antigen escape



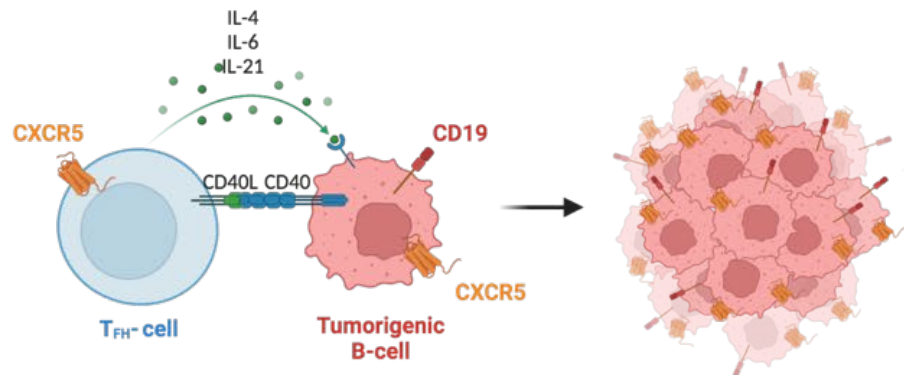
Dual functionality destroys tumor niche



IP protection and high-rank publication¹

CARtemis unravels the next-generation of CAR T-cells

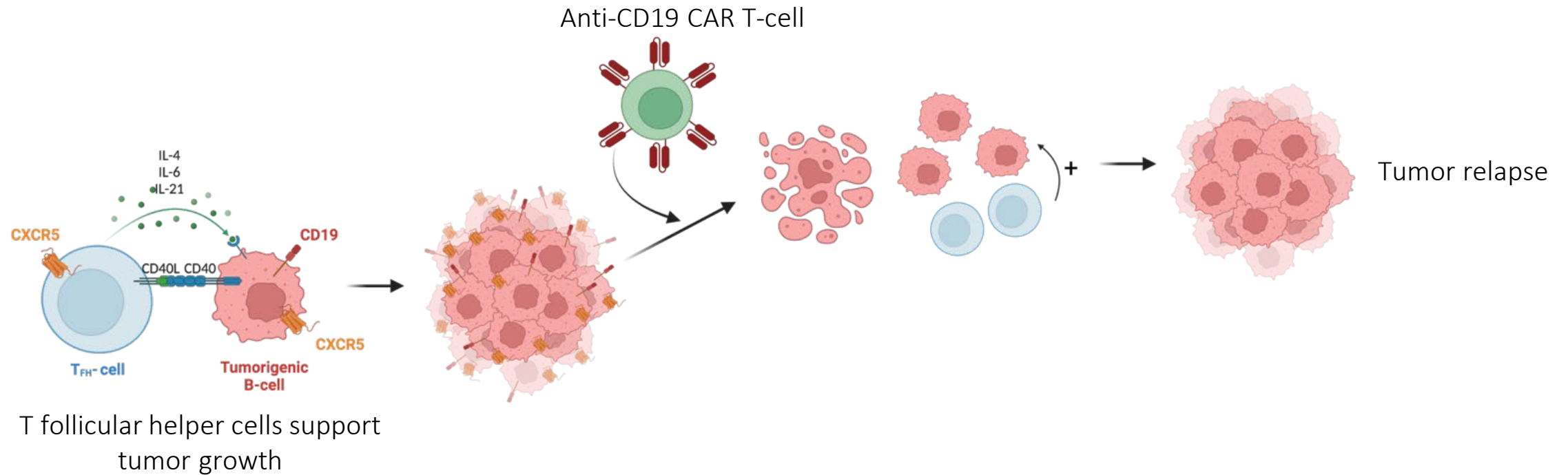
Anti-CXCR5 CAR with the potential to prevent relapses



T follicular helper cells support tumor growth

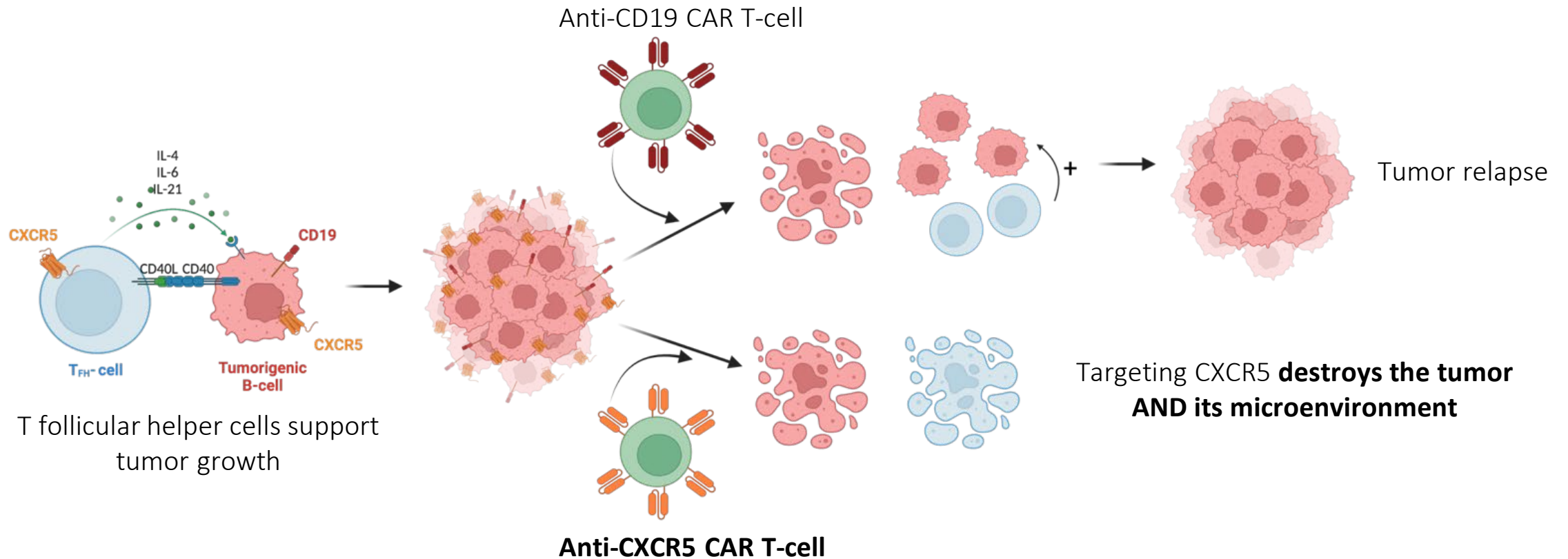
CARtemis unravels the next-generation of CAR T-cells

Anti-CXCR5 CAR with the potential to prevent relapses



CARtemis unravels the next-generation of CAR T-cells

Anti-CXCR5 CAR with the potential to prevent relapses

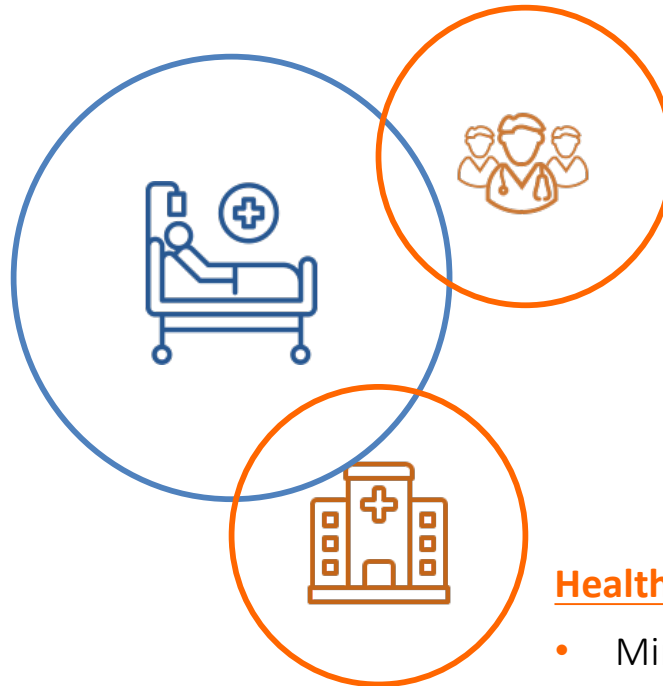


Anti-CXCR5 CAR as potentially curative one-time treatment

Substantial benefits for all stakeholders involved

Patients:

- Minimized risk for relapse
- Improved quality of life



Physicians:

- Provision of potentially life-saving therapies
- Gain of distinguished reputation

Healthcare facilities or insurances:

- Minimized need for additional treatment modalities
- Reduced hospitalization time and costs

Competitive landscape

CXCR5 as superior antigen exploiting a novel targeting mechanism

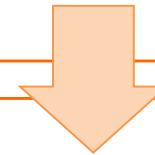


CARtemis is **uniquely positioned** by introducing a **novel target antigen** that simultaneously allow for the **disruption of the tumor microenvironment**.

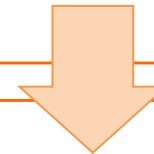
Market opportunities beyond oncology

The anti-CXCR5 CAR is of importance for the treatment of autoimmune diseases

Expansion of indications from
oncology to autoimmune diseases



Oncology:
B-NHL subtypes (FL, CLL & more),
6.4 B \$ expected market size in 2028



Autoimmune diseases:
Rheumatoid Arthritis, SLE & more,
150 B \$ expected market size in 2030

Achievements

Pre-clinical safety and efficacy of the anti-CXCR5 CAR was successfully demonstrated

**Pre-clinical proof-of-concept and
high-rank publication:**

Bunse et al., 2021, Nature
Communications

Favorable scientific advice meeting at
Paul-Ehrlich Institute



Achievements

Pre-clinical safety and efficacy of the anti-CXCR5 CAR was successfully demonstrated

Pre-clinical proof-of-concept and high-rank publication:

Bunse et al., 2021, Nature
Communications

Favorable scientific advice meeting at
Paul-Ehrlich Institute



IP protection: WO2019038368A1

Priority date: 23.08.2019

Active: US and Japan (since 2023), China (since 2025)

Signed term sheet with MDC regarding exclusive
licensing in place

Achievements

Pre-clinical safety and efficacy of the anti-CXCR5 CAR was successfully demonstrated

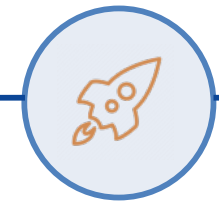
Pre-clinical proof-of-concept and high-rank publication:

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Favorable scientific advice meeting at Paul-Ehrlich Institute

Spin-off from
Max Delbrück Center, Berlin

Backed by:
Helmholtz Enterprise Women TechEU



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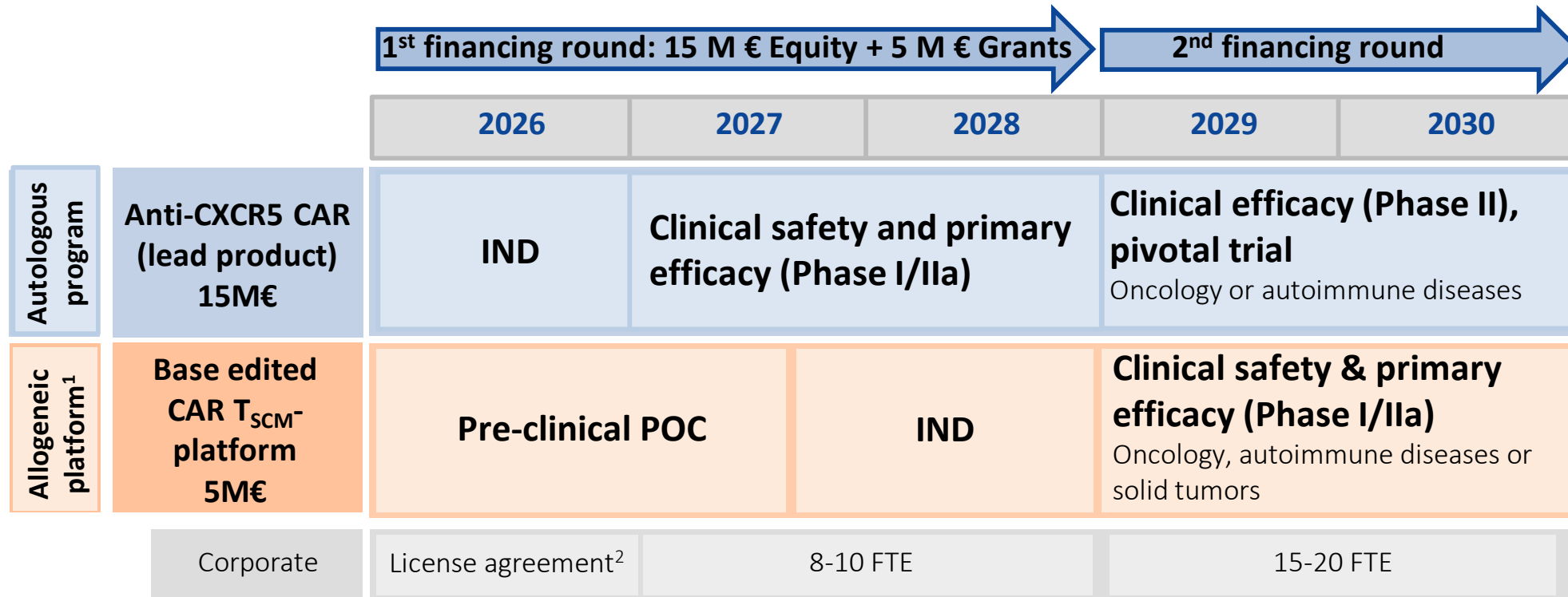
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Signed term sheet with MDC regarding exclusive licensing in place

Use of funds

Clinical proof-of-concept for the anti-CXCR5 CAR will be reached within three years



¹Pipeline program will be financed through non-dilutive funding opportunities

²Signed term sheet with Max Delbrück Center regarding IP-licensing of core technology in place

Team

Strong scientific foundation supported by biotech expertise

Founders & Inventors



Dr. Anthea Wirges
CEO

Helmholtz Enterprise,
Women TechEU, EIC
Women leadership
programme



PD Dr. Uta E. Höpken
CDO

→ **Involved in initiation and implementation
of several investigator-initiated CAR T-cell
trials**



Dr. med. Armin Rehm
CMO

CMC



Dr. Christian Kaps
COO

Expert in ATMP
manufacturing



Finance & Business



Dr. Thomas Klaue
CFO

Successfully closed
multiple financing
rounds



Dr. Peter Heinrich
**Chairman of the
Board**

Long standing biotech
executive with
extended network



Join our journey!

We are looking for investors and/or partners to advance our lead candidate, the anti-CXCR5 CAR, into Phase I/IIa.



15 M €



Q4/2025

Get in touch!

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wirges@cartemis.de

