Captor Therapeutics®

Pioneering targeted protein degraders for human health

Corporate Presentation October 2024



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An experienced leadership team



Tom Shepherd, Ph.D. Chief Executive Officer

- 30 years in Biotech leadership positions
- Led 12 licensing transactions resulting in
 \$3 B in sales
- 6 private investment rounds and 3 IPOs.





- Ph.D. ETH Zurich,
- Post-doc FMI Basel (Novartis Research Foundation) on TPD
- 10 years in drug discovery and TPD



- **Ph.D.** Anna Pawluk, Ph.D. VP Operation
 - Ph.D. University of Wroclaw
 - MBA WSH in Wroclaw
 - 15 years of R&D experience



Sylvain Cottens, Ph.D. Co-founder SVP Chemistry

- Ph.D. EPFL Lausanne,
- Post-doc Caltech, (USA)
- Scientific expert & leader with 25+ years at Novartis
- Co-inventor of Afinitor and co-developer of Gilenya (both blockbuster drugs)



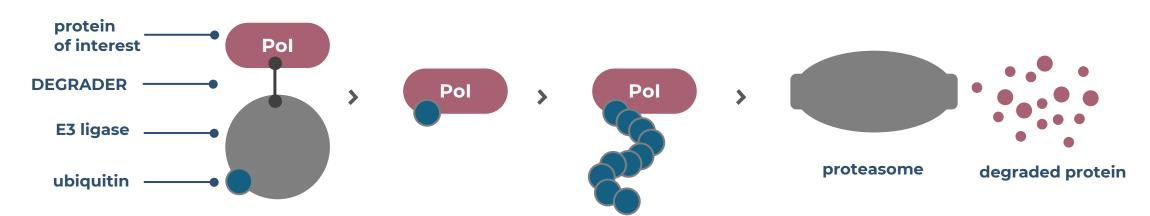
Andrew Saunders DPM, FFPM Chief Medical Officer

- MB BCh BAO BA, Medicine, Trinity College, Dublin
- FFPM, Royal College of Physicians, London
- 25 years in oncology clinical development, including global responsibility for Rituximab

EDUCATION	Stategew Gategew		WIND WSH Wyższa Szkoła Handłowa we Wrocławiu	安京で Trinity College Dublin The University of Dublin
PREVIOUS EXPERIENCE	BAUSCH-Health	FMI	U NOVARTIS	Liller Roche
	kymab	Friedrich Miescher Institute for Biomedical Research	O NOVARIIS	Sectory



Targeted Protein Degradation expected to unlock \$974* bn by 2030



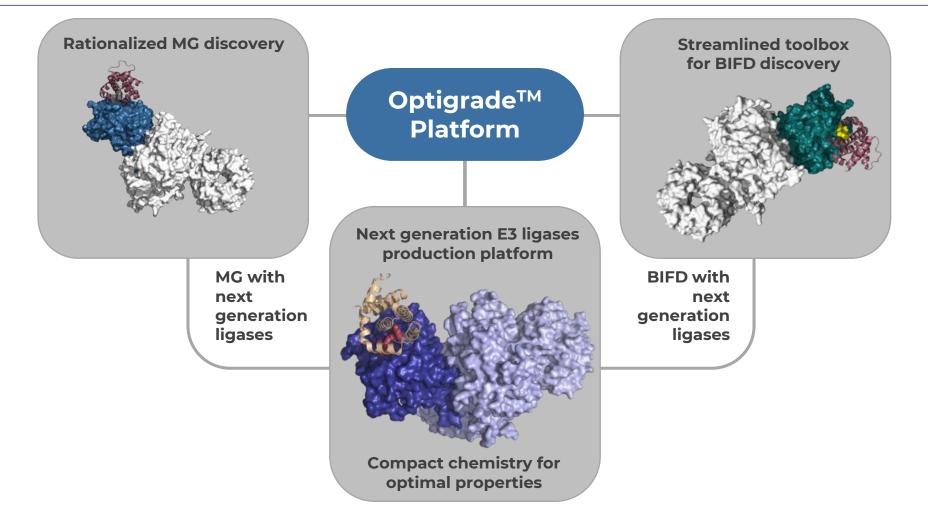
	Degraders	Inhibitors	mAbs	siRNA
Removing multiple pathological functions	$\checkmark\checkmark\checkmark$	×	×	$\checkmark\checkmark\checkmark$
Oral bioavailability	$\checkmark\checkmark\checkmark$	$\checkmark \checkmark \checkmark$	×	×
Uncoupling PK from PD = prolonged efficacy	$\checkmark\checkmark\checkmark$	×	×	$\checkmark \checkmark \checkmark$
Overcoming mutational resistance	$\checkmark\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$	$\checkmark \checkmark \checkmark$
Targeting scaffolding function	$\checkmark\checkmark\checkmark$	×	$\checkmark\checkmark$	$\checkmark\checkmark\checkmark$
Brain-penetration	$\checkmark\checkmark$	$\checkmark \checkmark \checkmark$	×	×
Accesing undrugged proteins	$\checkmark\checkmark\checkmark$	\checkmark	×	$\checkmark\checkmark\checkmark$



Captor

Therapeutics

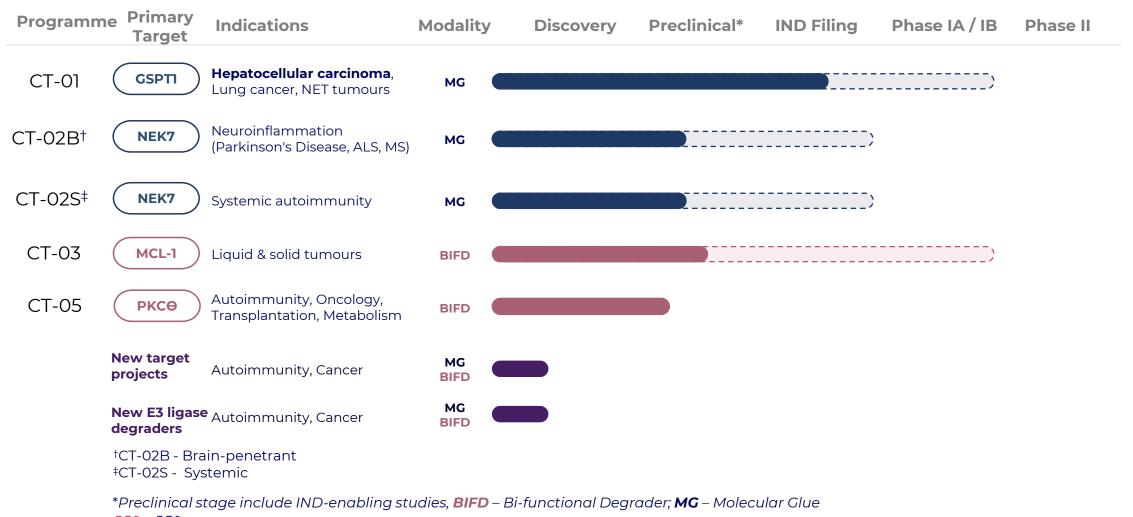
Optigrade™ discovery platform – importance of structure



Optigrade[™] – addressing Molecular Glues, Bifunctional Degraders and novel Ubiquitin E3 Ligases



Fully owned pipeline

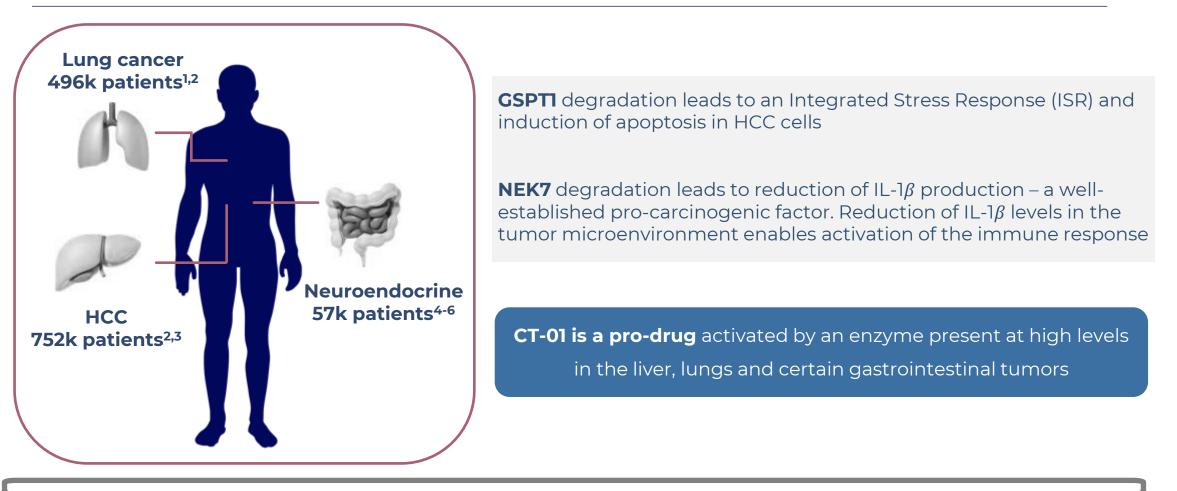


(Assumed stage at the end of 2025

CT-01: First-in-Class GSPT1 Targeted Degrader for Hepatocellular Carcinoma (HCC)



CT-01: first-in-class molecular glue degrader of GSPT1 & NEK7



A unique degradation profile combined with target tissue pro-drug activation for liver, lung, breast and neuroendocrine cancer

CT-01 (GSPTI)

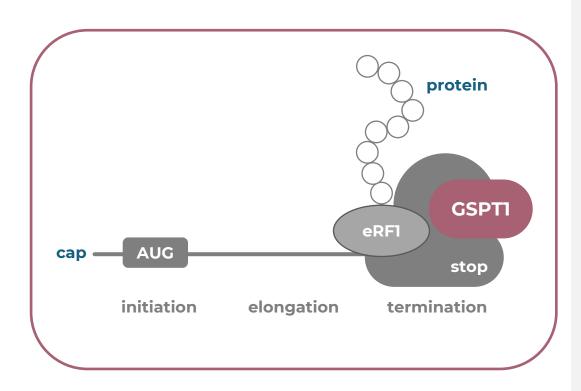
Semin Cancer Biol. 2006 Aug;16(4):253-64
 https://gco.iarc.fr/today/en/
 J Hepatol. 2022 Dec;77(6):1598-1606

(4) Semin Cancer Biol. 2006 Aug;16(4):253-64
(5) Endocr Connect. 2023 Nov 23;12(12)
(6) JAMA Oncol. 2017 Oct 1;3(10):1335-1342



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Biology of GSPT1 supports its targeted degradation in cancer treatment



1. Hellen C. U. T., Cold Spring Harb Perspect Biol, 2018

2. Salas-Marco, J. & Bedwell, D. M.. Mol Cell Biol, 2004

3. Kurosaki, T. & Maquat, L. E., J Cell Sci, 2016

Target Biology and Therapeutic Rationale

G1 to S phase transition 1 protein (GSPTI, eRF3a) is a translation termination factor that regulates mRNA translation¹

GSPTI and eRFI form a translation termination complex that facilitates the nonsense mediated mRNA Decay^{2,3}

Clinical opportunity

Targeting protein translation GSPTI degradation offers

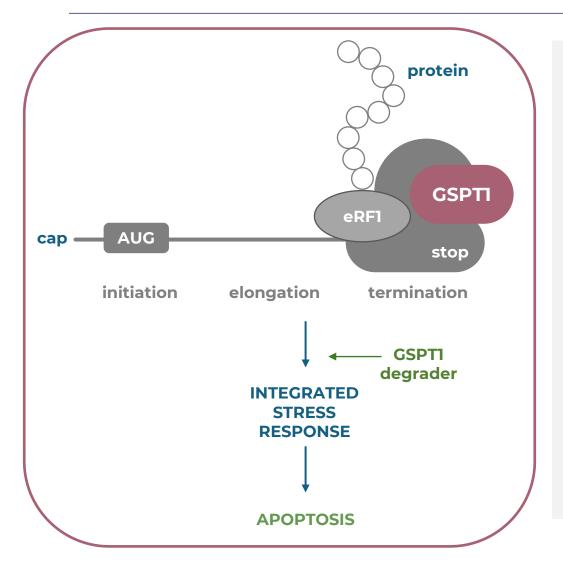
treatment options of:

- 1. Hepatocellular Carcinoma (HCC)
- 2. Lung cancer
- 3. Breast cancer
- 4. Gliomas
- 5. Rare cancers, e.g.: hepatoblastoma, angio- and liposarcomas



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GSPT1 degrader



GSPTI degradation leads to apoptosis via induction Integrated Stress Response (ISR)

An excellent opportunity for targeting of cancer cells that require translational adaptations and efficient protein synthesis

CT-01 degrader is a pro-drug converted by an enzyme elevated in the inflammed liver, lungs and blood-brain barrier.

The active molecule is released in HCC and features:

- 1) poor cell membrane penetration and
- 2) fast clearance, both of which significantly expand the therapeutic window.

CT-01 degrades also NEK7, whose pro-carcinogenic role is manifested in stabilization of MDSCs and TAMs in Tumor Micro-Environment (TME)



CT-01 (GSPT1)

HCC: current standard of care and opportunity

Line of therapy	Therapy	Survival Benefit <i>vs</i> Sorafenib [months]	FDA Approval
1	Tecentriq + Avastin	+5.8 ¹	uHCC / mHCC
1	Imfinzi + Imjudo	+2.7 ²	uHCC
1/2	Nexavar	0.0 ³	uHCC
2	Optivo	+1.74	uHCC (Post sorafenib)
2	Cabometyx	+2.2 ⁵	uHCC (Post sorafenib)

Market Research Provider	Base (Year / \$B)	Future (Year / \$B)	CAGR (%)
Vision Research Reports ⁶	2024: \$3.2	2033: \$11.6	15%
SNS Insider ⁷	2022: \$2.9	2030: \$12.9	20%
Skyquest ⁸	2022: \$2.7	2030: \$11.4	20%
Research and Markets ⁹	2022: \$2.4	2030: \$7.8	15%
Polaris ¹⁰	2021: \$2.2	2030: \$10.4	20%

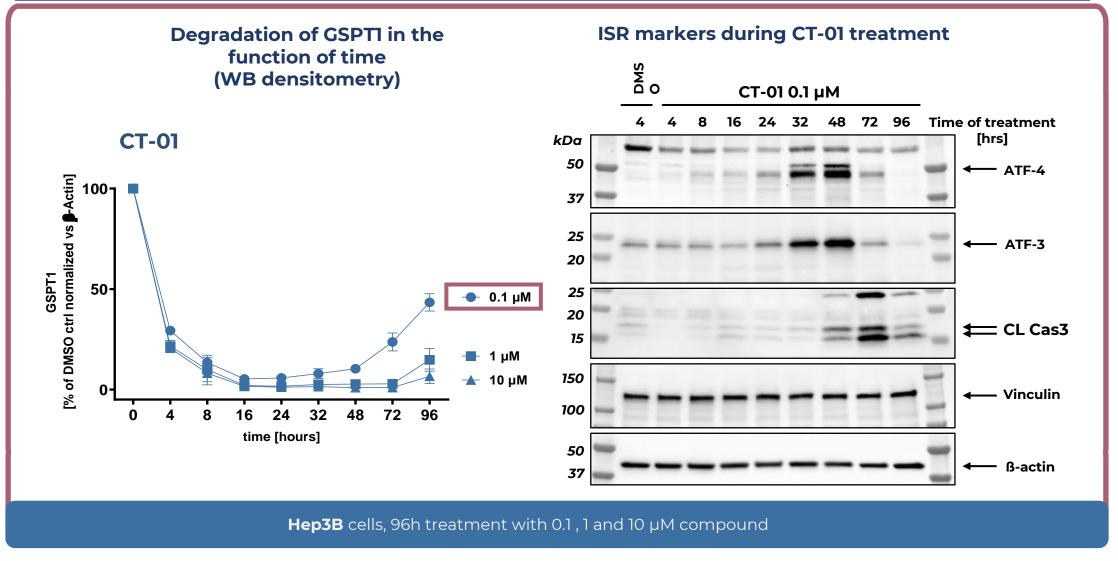
Global market reports forecast 15-20% CAGR

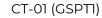
uHCC – unresectable HCC mHCC – metastatic HCC

(1) J Hepatol. 2022;76(4):862-873 | (2) NEJM Evid 2022;1(8) | (3) N Engl J Med 2008; 359:378-390 | (4) Lancet Oncol 2022 Jan;23(1):77-90 | (5) N Engl J Med 2018 Jul 5;379(1):54-63 (6) https://www.visionresearchreports.com/liver-cancer-drug-market/40952 | (7) https://www.snsinsider.com/reports/liver-cancer-therapeutics-market-3215 | (8) https://www.skyquestt.com/report/liver-cancer-drugs-market (9) https://www.researchandmarkets.com/reports/5899559/liver-cancer-drug-market-size-share-and-trends | (10) https://www.polarismarketresearch.com/industry-analysis/global-liver-cancer-market CT-01 (GSPT1)



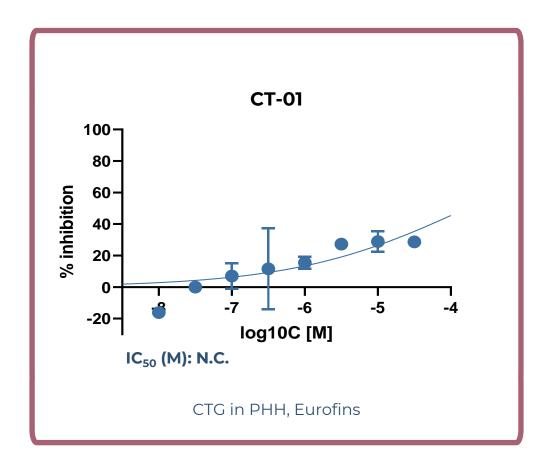
Induction of ISR-dependent cell death in Hep3B tumor cells



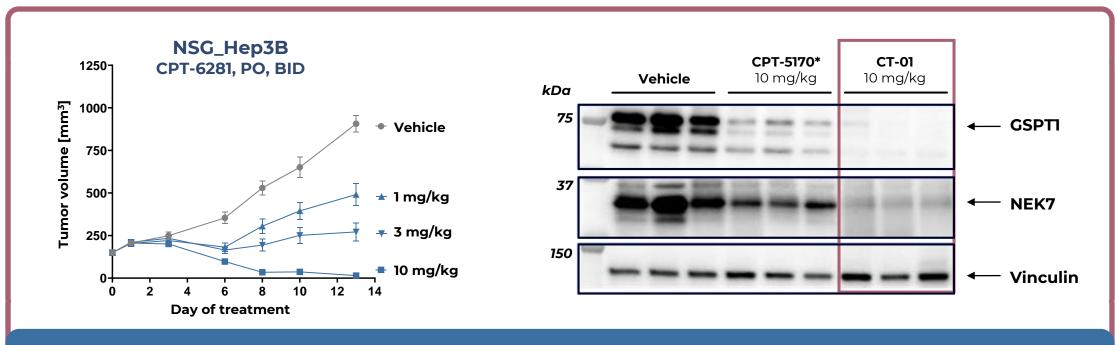




Lack of cytotoxicity to primary human hepatocytes provides extra safety level



Highly potent CT-01 regresses tumors in mice

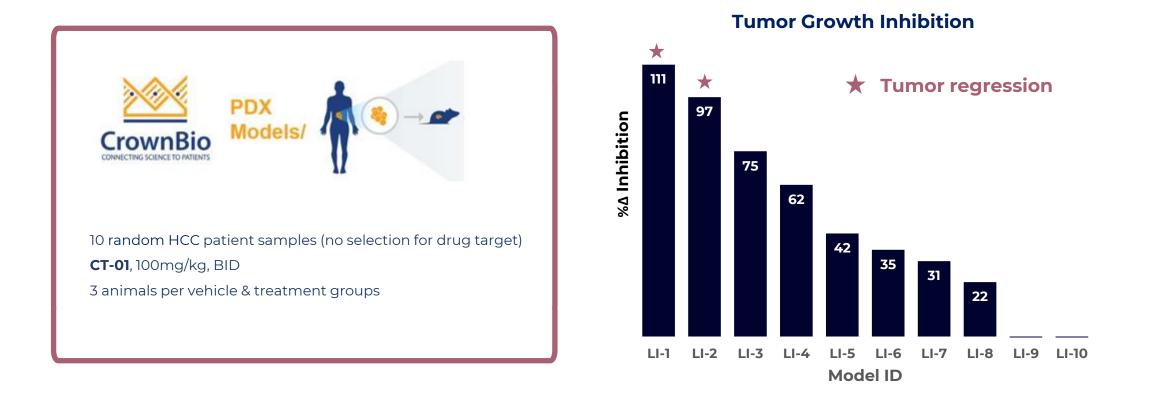


Regression of large tumors (~ 150 mm²) observed at doses as little as 10 mg/kg BID administered orally *CPT-5170: an early lead compound in the CT-01 project

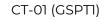
CT-01 strongly regresses liver cancer in Hep3B model at 10 mpk



Convincing tumor growth inhibition in HCC PDX models

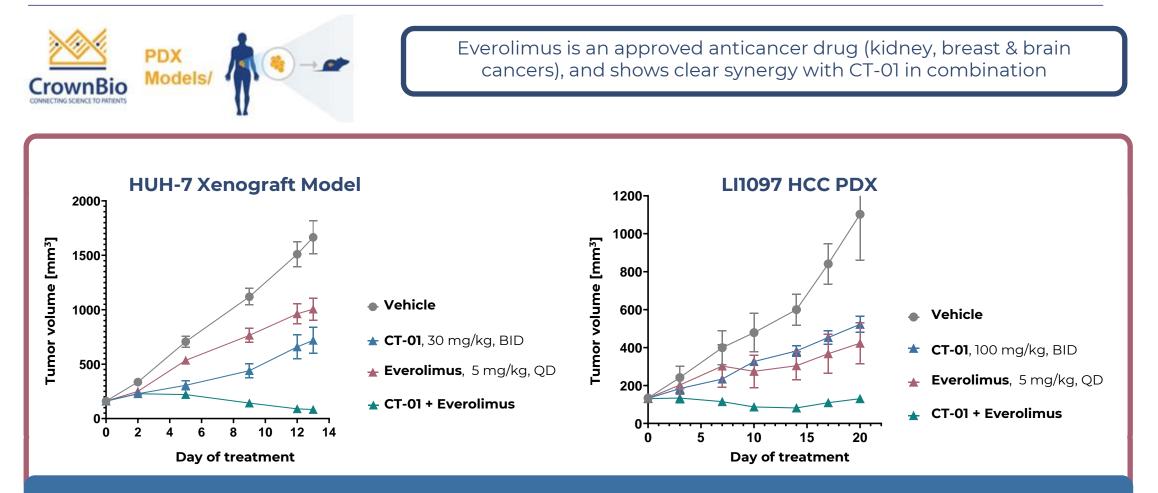


Efficacy demonstrated in 8/10 PDX models; TGI>50% in 4 models, 2 models with regression





Strong synergy of CT-01 in combination with everolimus



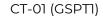
Combination with everolimus sensitizes poorly or non-responding tumor models

CT-01 (GSPT1)



CT-01 is highly differentiated among GSPT1 degraders

Assay	CT-01 (Captor) ¹	CC-90009 (BMS) ²	MRT-2359 (Monte Rosa) ³
Selectivity (Px, WB)	GSPT1, GSPT2, NEK7	GSPTI, GSPT2, SALL4, FIZ1, RNF166, ODC1 (1)	GSPTI, GSPT2
CYP DDI (2B6, 1A2, 2D6, 3A4, 2C8, 2C9, 2C19)	>50 µM	CYP2C19 at 1.5 µM	>30 µM
hERG	>30 µM	5.3 μΜ	>30 µM
CEREP, % inhibition	Protein panel <20% at 10 µM	M1/M2 > 50% at 10 µM	a1A>50% at 10 µM
Caco2 (Efflux Ratio) of active drug	1.0	>100	9
Route of Administration	PO	IV	PO
Metabolic activation	Yes	No	No
Cell permeability of the active drug	Very low	High	High
Clearance of the active drug	Fast; >300 ml/min/kg	Medium; ~70 ml/min/kg	N/A
Tissue specificity	Yes	No	No
Potential weaknesses	Unknown (No hypocalcemia or thrombocytopenia seen in GLP-tox)	Hypocalcemia and thrombocytopenia	Dose-limiting thrombocytopenia
 Internal profiling DOI: 10.1021/acs.jmedchem.0c01489 Monte Rosa Corporate Presentation 			CC-90009 = BMS / Celgene GSPTI





CT-6281: CTA submission status

In vitro and *in vivo* pharmacology studies

Drug Substance synthesis optimization and manufacture in large scale

DMPK studies

Preliminary toxicology studies in 2 animal species

Toxicology studies under GLP (GLP Tox)

Drug Substance GMP manufacture

Drug Product - capsule preparation

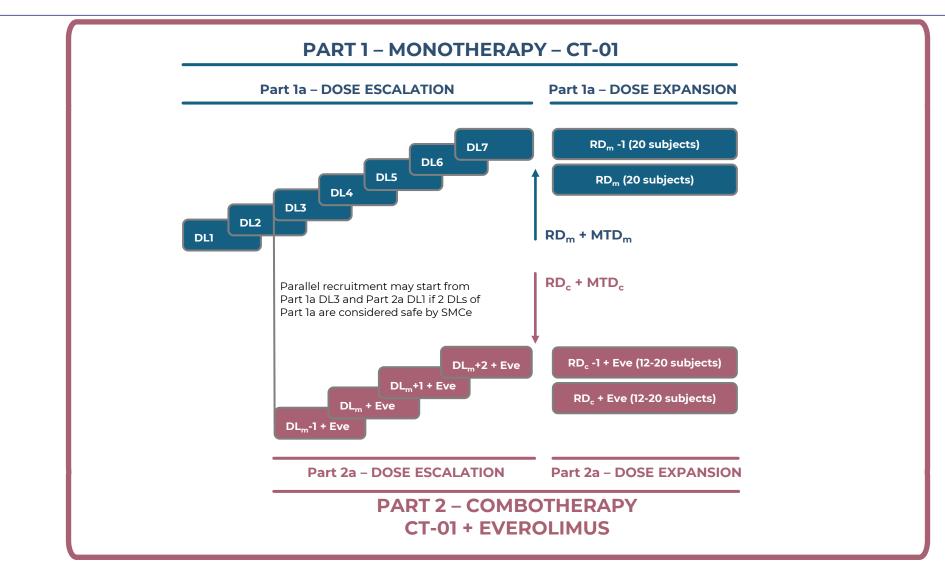
CTIS (Clinical Trial Information System) package preparation and submission

Clinical Trial Application Assessment



CT-01 (GSPT1)

Study design







Best-in-class potential of highly differentiated CT-01

• Strong differentiation from other GSPTI degraders (BMS, Monte Rosa)

- Best-in-class degradation profile
- Active degrader lingers inside cancer cells after activation (poor cell penetration after prodrug conversion)
- Active degrader is rapidly cleared from systemic circulation

Degradation profile

- GSPTI, NEK7
- Activated in diseased liver, lung, adipocytes and inflamed blood-brain barrier

Initial indications

- hepatocellular carcinoma (HCC)
- lung cancer
- brain tumors
- rare cancers (hepatoblastoma, lipo- and angiosarcoma)

Development activities

- Clinical Trial Authorization Application submitted in Europe
- Initiation of Phase 1 clinical trials in hepatocellular carcinoma Q1 2025

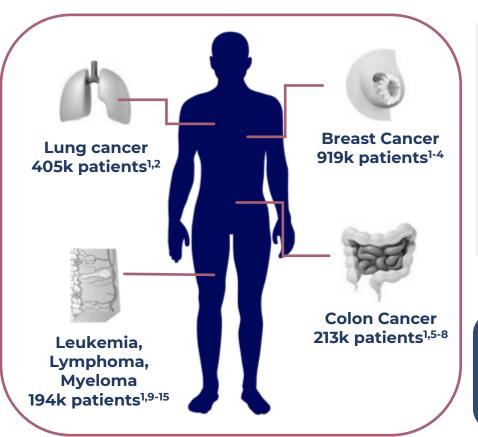


CT-01 (GSPT1)

CT-03: First-in-Class MCL-1 Degraders for Liquid & Solid Tumors



CT-03: MCL-1 – a critical pathway for cancer resistance



MCL-1 is one of the most amplified proteins in cancer[†]

A critical resistance mechanism in hematological and solid tumors‡, cancer cells require very high levels to avoid induction of apoptosis

Degradation or inhibition of MCL-1 protein directly attenuates tumors in vivo as monotherapy & sensitizes tumors for other therapies

Inhibitors require prolonged, almost 100% of target coverage and cause accumulation of MCL-1†, cardiotoxicity through necrosis§

Short-term degradation of ≈70% of MCL-1 irreversibly induces apoptosis in cancer cells

This, together, with optimized clearance expands the therapeutic window of degraders

1. https://gco.iarc.fr/today/en/

2. Semin Cancer Biol. 2006 16(4):253-64 3. Cell Death Dis 2018 9(2): 19 4. Breast Cancer Res. 2016 18(1): 125 5. Int J Mol Sci. 2019 20(3): 5999

CT-03 (MCL-1)

6. Cell Death Dis. 2022 13(1): 63
 7. Colorectal Dis 2022 24(11): 1295-1307
 8. Ann Fam Med. 2016 14(3): 215-20
 9. Exp Hematol Oncol. 2020 Jun 19;9:14
 10.Hum Pathol. 2004 Sep;35(9):1095-100

 11. ACS Key Statistics for AML, CLL, Lymphoma

 i-1307
 12.Curr Treat Options Oncol. 2020 Jun 29;21(8):66

 20
 13.Int J Mol Sci. 2024 Jan 27;25(3):1589

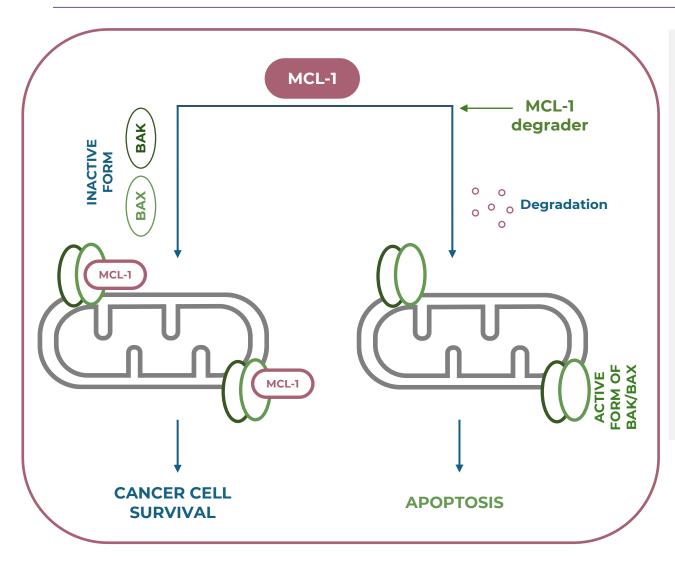
 19;9:14
 14.Blood Rev. 2020 Nov;44:100672

 95-100
 15.Leukemia. 2013 Jun;27(6):1381-90

+Front Oncol. 2023 Jul 31;13:1226289 +Apoptosis. 2023 Feb;28(1-2):20-38 §iScience. 2020 April; 23(4): 101015

> Captor Therapeutics®

CT-03: MCL-1 – a critical pathway for cancer resistance



MCL-1 biology and clinical relevance

MCL-1 is a well-characterized oncogenic protein with a key role in **evading apoptosis** and **promoting the survival of cancer cells**¹.

Studies show cell growth dependency of MCL-1 levels in liquid (leukemia, lymphoma, myeloma) and solid tumors (breast and lung cancers²⁾.

Monoallelic KO of MCL-1 in mice is viable and do not show signs of cardiac damage³ or gross phenotype, and show resistance to selected liquid tumors.

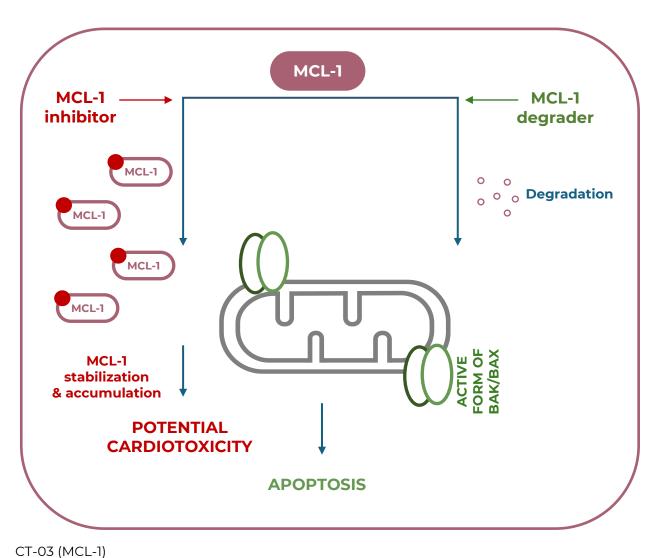
Numerous systemic and targeted therapies drive the clonal selection of cells towards increased levels of MCL-1, like in AML refractory to venetoclax⁴.

1. Singh R et al. Nature Reviews, 2019; 20: 175-193

- Kotschy A et al. Nature, 2016; 538(7626): 477-482
 Brinkmann K et al. Cell Death Differ, 2017; 24(12): 2032-2043
- Brinkmann K et al. Cell Death Differ, 2017; 24(12):
 Garciaz S et al. Cancers, 2024; 16(6): 1091



CT-03: MCL-1 – a critical pathway for cancer resistance



MCL-1 degraders advantage over inhibitors

MCL-1 inhibition increases its stability, through its aberrant phosphorylation and consequent accumulation¹.

The result of MCL-1 accumulation is a cellular rewiring that affects cardiomyocyte viability *via* necrosis, not apoptosis².

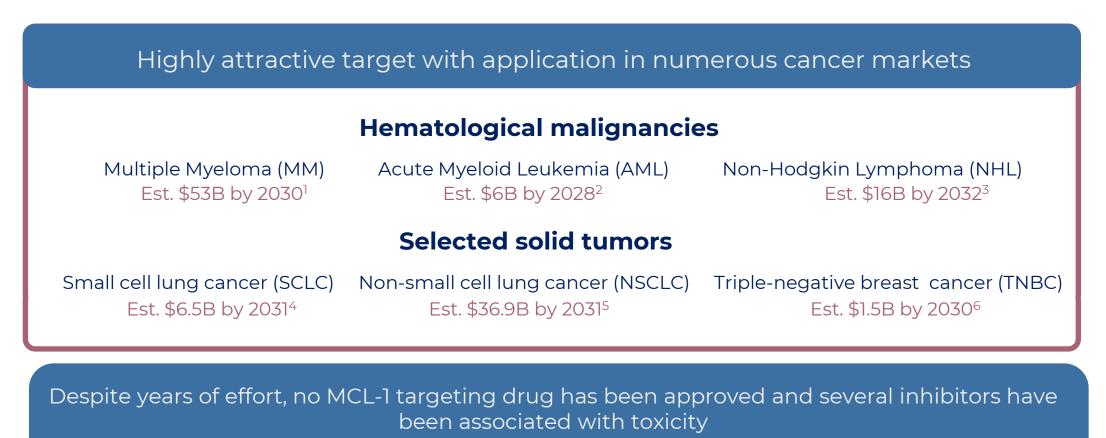
None of the MCL-1 inhibitors progressed significantly in clinical development due to safety issues, i.e. cardiotoxicity.

Since degraders induce rapid apoptosis of cancer cells via reduction of MCL-1 levels and provide homeostatic levels of MCL-1 in cardiac myocytes, they are expected to avoid toxicity seen with the class of inhibitors.

Singh R et al. Nature Reviews, 2019; 20: 175-193
 Kotschy A et al. Nature, 2016; 538(7626): 477-482



MCL-1: a high potential cancer target

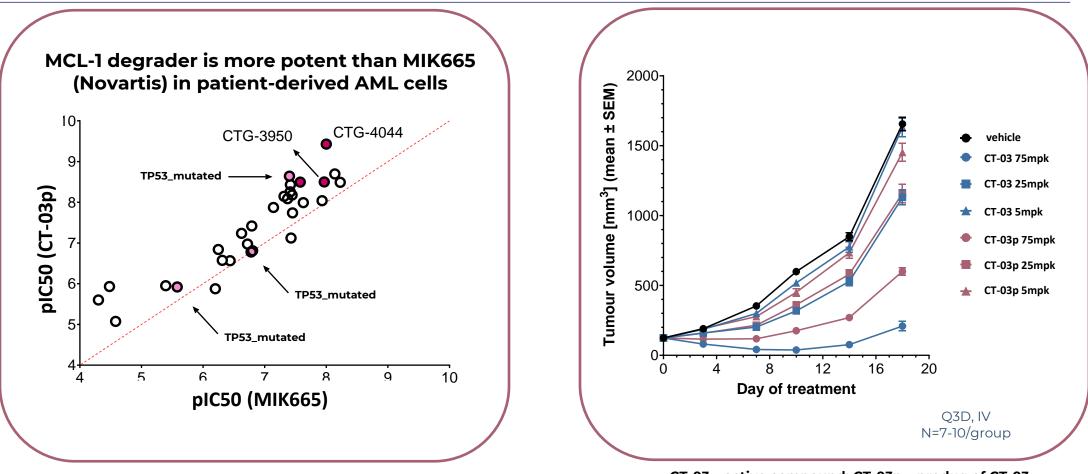


Captor has nominated a candidate, CT-03p (prodrug); neither has shown any evidence to date of cardiotoxicity in keeping with their different mode of action

¹Allied Market Research ²BCC Research ³Spherical Insights ⁴<u>iHealthcareAnalyst</u> ⁵<u>Allied Market Research</u> ⁶<u>Databridge Market Research</u>



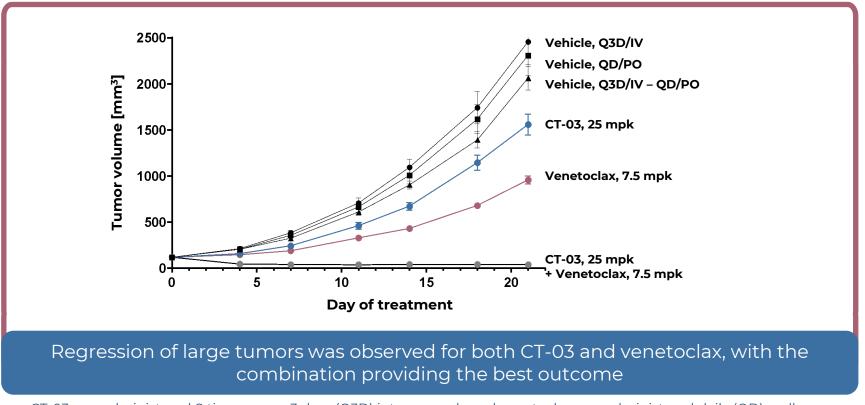
High potency of MCL-1 degraders in AML patient samples *ex vivo* & in-vivo leukemia model



CT-03 – active compound; CT-03p – produg of CT-03

CT-03p (prodrug) is more potent than MIK665 (Novartis) in a panel of 30 PDC cell lines and shows nM activity in cells refractory to gilteritinib and venetoclax

Combined of MCL-1 degrader with venetoclax regresses AML tumors in mice

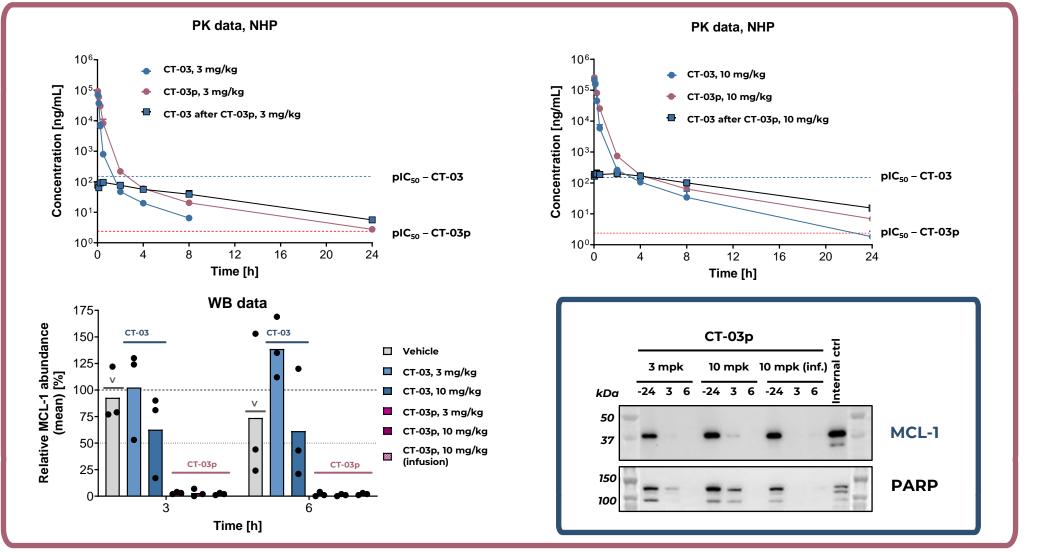


CT-03 was administered 8 times, every 3 days (Q3D) intravenously and venetoclax was administered daily (QD) orally

CT-03 in combination with venetoclax strongly inhibits cancer growth in MV4-11 Human Leukaemia Xenograft Model



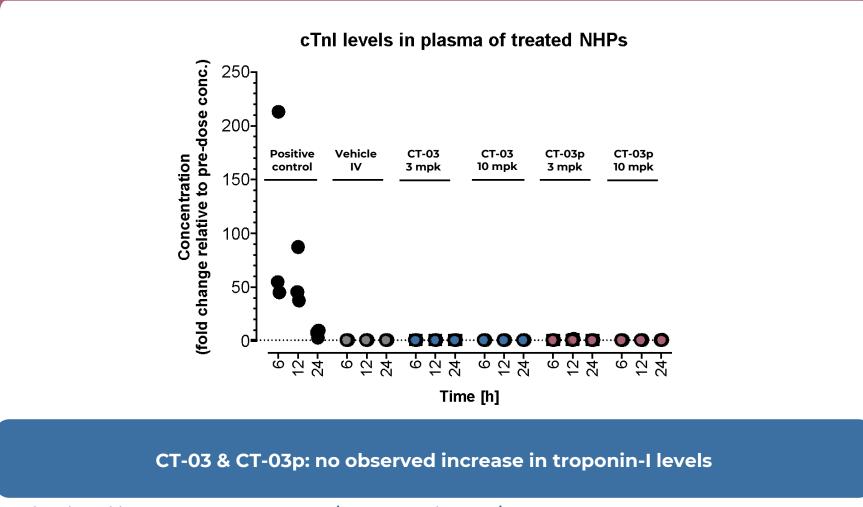
Degradation of MCL-1 in NHP after single IV dose of degraders







Cardiotoxicity marker Troponin I in plasma of NHPs after CT-03 dosing



*Cardiotoxic positive control - Isoproterenol 3mg/kg, Vasopressin 0.3mg/kg CT-03 – active compound; CT-03p – produg of CT-03

CT-03 (MCL-1)



CT-03 candidate drug with unmatched therapeutic window

Strong differentiation from MCL-1 inhibitors

- Pharmacology of MCL-1 degradation vs. pharmacology of accumulation (inhibitors)
- No accumulation of MCL-1 protein
- No cardiotoxicity observations in MTD, DRF in NHPs by any means
- Very high degradation potency in mouse models, in NHP and in human cells ex vivo
- Candidate drug in place

• Initial indications

- Hematological cancers
- Solid tumors

Expected milestones

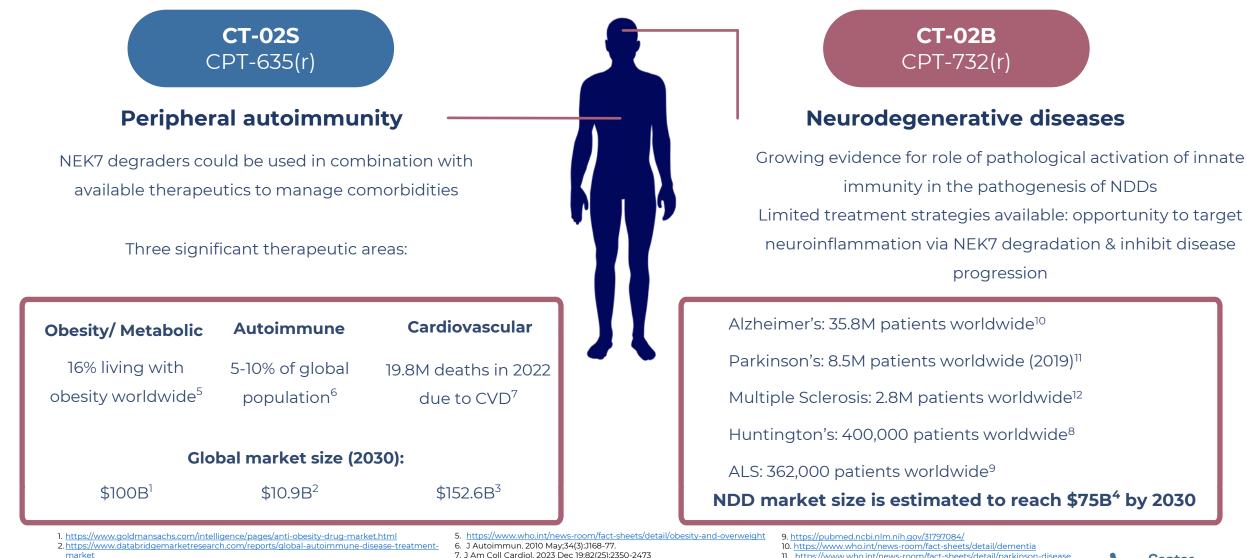
• IND-enabling studies completion in H2 2025



CT-02: First-in-Class NEK7 Degraders for Autoimmune (CT-02S), Neuroinflammation & Obesity (CT-02B)



Significant market opportunities for Captor's NEK7 degraders



market

3. https://www.researchandmarkets.com/report/cardiovascular

32

4.https://www.researchandmarkets.com/report/neurodegenerative-disease-drug

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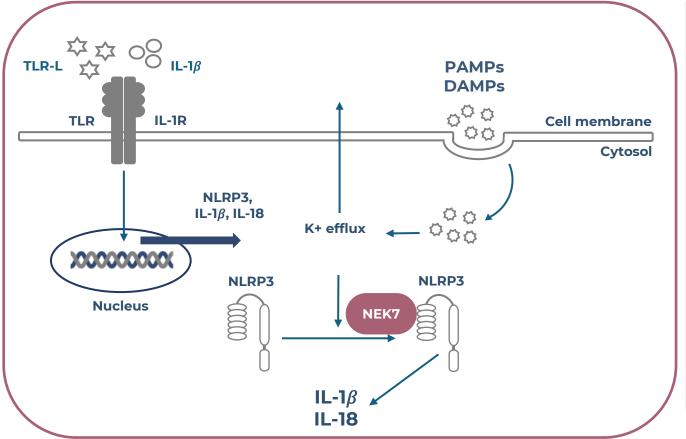
8. https://pubmed.ncbi.nlm.nih.gov/36161673/

11. . https://www.who.int/news-room/fact-sheets/detail/parkinson-disease

12. Mult Scler. 2020 Dec;26(14):1816-1821



NEK7 as a new target of the NLRP3 inflammasome pathway



 Shi et al; Nature Immunology, vol 17 (2016);
 Sharif et al.; Nature, vol 570, (2019);
 He et al.; Nature, vol 530, (2016);
 Walle and Lamkanafi; Nature Reviews Drug Discovery vol 23 *own results conducted by Captor Therapeutics

NEK7 overview

NEK7 is master regulator of the NLRP3 inflammasome complex through its scaffolding function

NEK7 KO/KD in mouse abrogates production of IL-1 beta in response to stimulating factors.

Haploinsufficient, NEK7^{+/-}, mice show no internal anatomical or growth abnormalities.

Antagonists of IL-1 β or IL-1R are approved in:

CAPS syndromes (FCAS, MWS, NOMID)

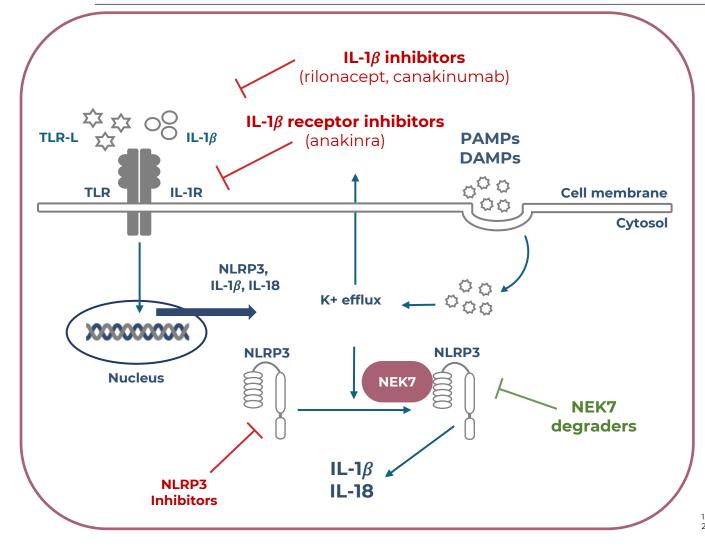
inflammatory disorders, e.g. familial mediterranean fever (FMF), tumor necrosis factor receptor associated periodic syndrome (TRAPS), hyperimmunoglobulin D syndrome (HIDS) / mevalonate kinase deficiency (MKD), Still's disease, and gouty arthritis.

Degradation of NEK7 inhibits the production of pro-inflammatory cytokines in *in vitro* models and halts disease progression in preclinical mouse models of chronic NLRP3-related diseases*.



CT-02 (NEK7)

NEK7 as a new target of the NLRP3 inflammasome pathway



Differentiation

From anti-IL-1 β antagonists:

Once daily oral administration instead of injection

Uncoupling pharmacokinetics from pharmacodynamics potentially offers a better safety profile

From NLRP3 inhibitors:

Uncoupling pharmacokinetics from pharmacodynamics potentially offers a better safety profile and prolonged efficacy

High safety profile: due to multiple functions of NLRP3 outside of the inflammasome, there are serious safety concerns about NLRP3 inhibitors

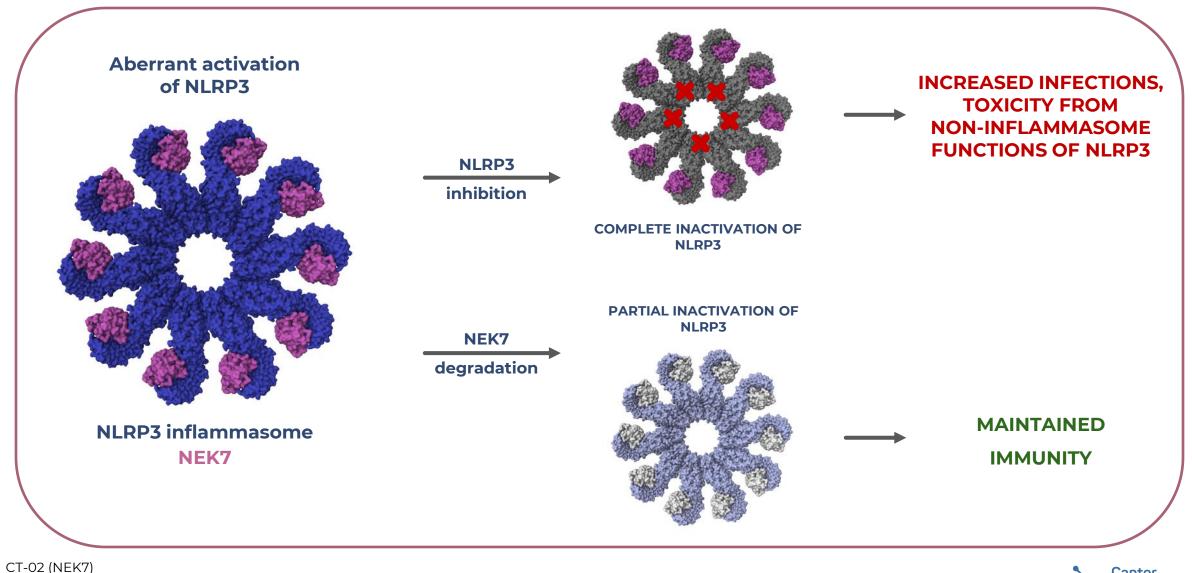
Complete IL-1 β shutdown potentially manifests in recurring infections

NLRP3 requires high coverage by inhibitors, which is recapitulated in increased frequency of dosing (BID) of some of the clinical compounds, e.g. DFV890 (Novartis)

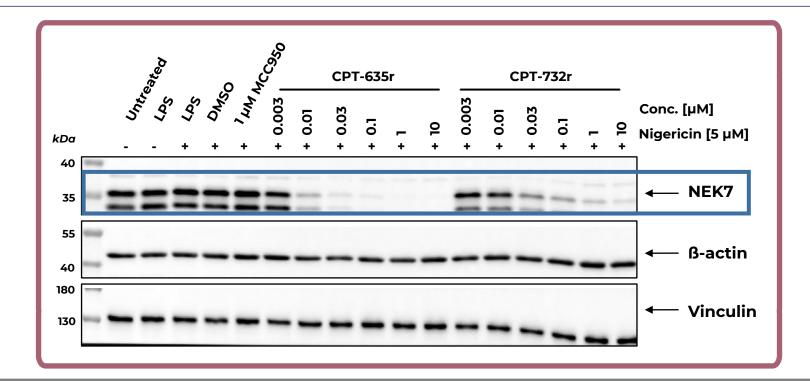
1. Molina-Lopez et al; Nature Communications, vol 15, (2024); <u>https://www.ema.europa.eu/en/medicines/human/EPAR/ilaris</u> 2. <u>https://www.ema.europa.eu/en/medicines/human/EPAR/kineret</u> *own results conducted by Captor Therapeutics



Intervention in NLRP3 pathway via NEK7 degradation



Potent degradation of NEK7 in human macrophages in vitro



CPT-635r and CPT-732r degrade NEK7 protein dose-dependently in human PBMC-

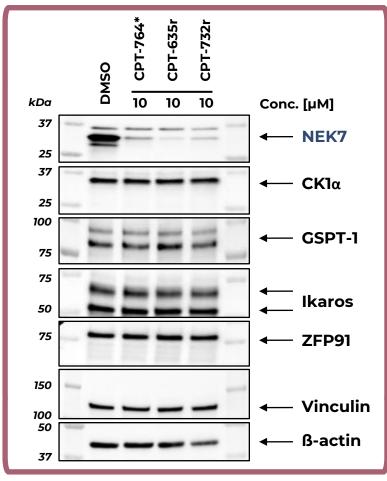
derived macrophages with LPS+Nigericin activated inflammasome

Human PBMC differentiated into macrophages with M-CSF; treatment with compounds – 24h; inflammasome activation: LPS – 3h, Nigericin – 1h MCC950 – NLRP3 inhibitor (Roche/Inflazome); CPT-635r – racemate of CPT-635, CPT-732r – racemate of CPT-732



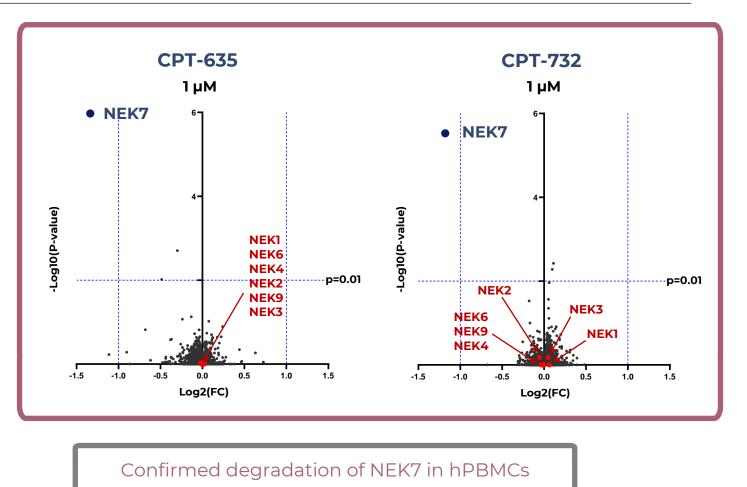
CT-02 (NEK7)

High selectivity of NEK7 molecular glue degraders



*Early lead compound

CPT-635r - racemate of CPT-635, CPT-732r - racemate of CPT-732

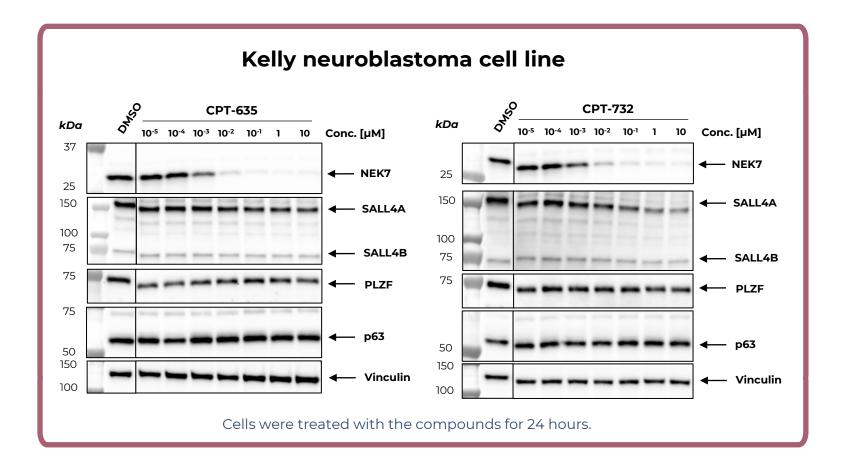


No off-targets, even at high doses

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CT-02 (NEK7)

High selectivity of diastereoisomers against teratogenic targets

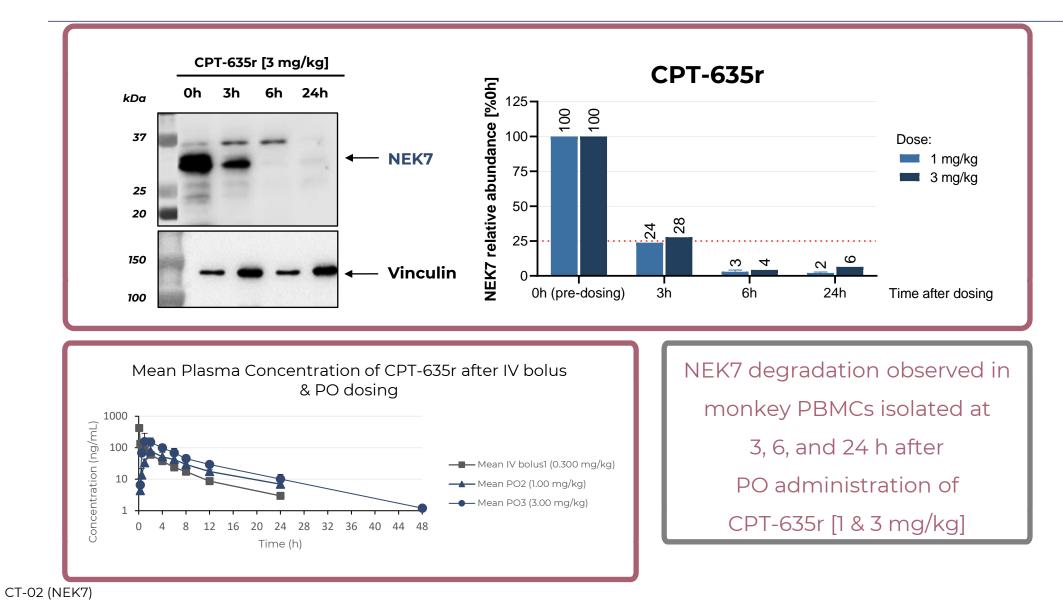


High selectivity against off-targets suspected of teratogenicity: SALL4, PLZF and p63

Target	CPT-	635		СРТ	-732
Target	DC ₅₀	D _{max}		DC ₅₀	D _{max}
NEK7	0.809 nM	99.2%	2	2.77 nM	95.6%
SALL4A	>10 µM	39.2%	:	>10 µM	48.7%
PLZF	>10 µM	27.3%	:	>10 µM	30.1%
p63	>10 µM	29.4%	:	>10 µM	0%

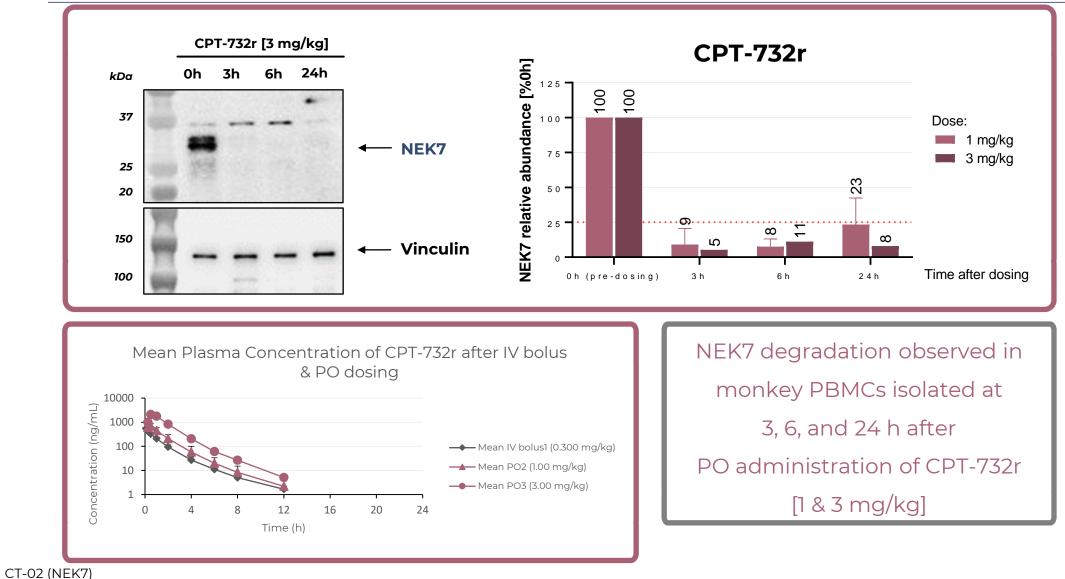


CPT-635r efficiently covers & degrades NEK7 in NHPs after a single dose



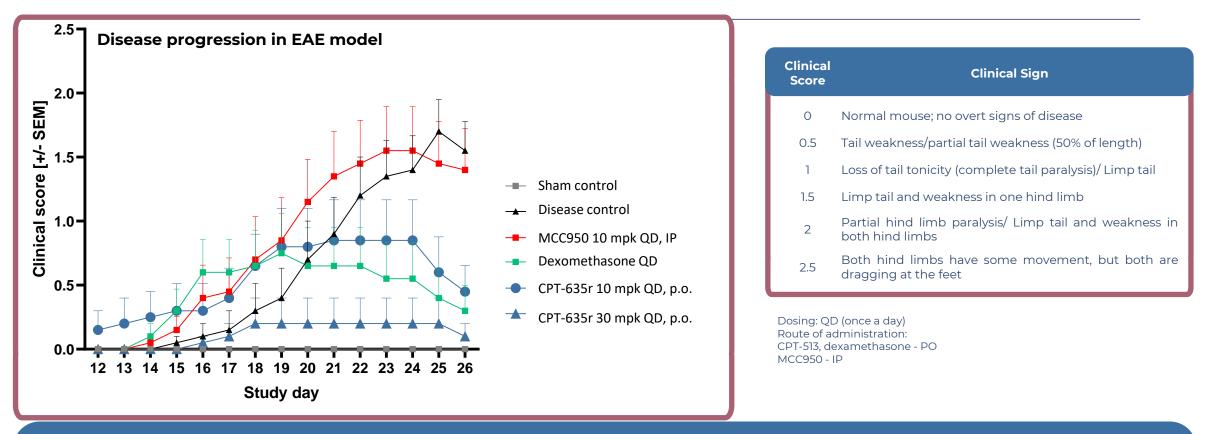


CPT-732r efficiently covers & degrades NEK7 in NHPs after a single dose





High efficacy of CPT-635r with oral dosing in EAE mouse model in vivo



C57BL/6 female mice (10 mice per group)

Clinical score/ disease index monitored based on a predefined scale including motor skills and tail / limb weakness

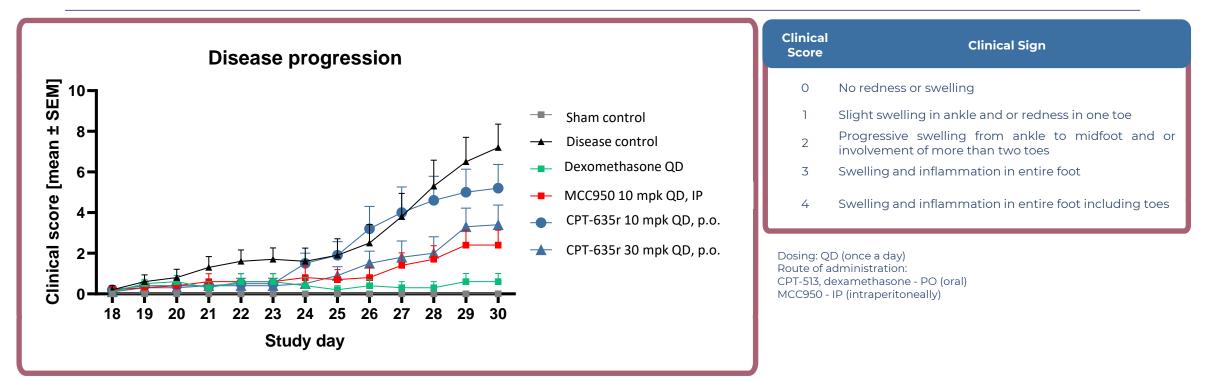
Treatment for 16 days did not induce any side effects

Body weight in the groups treated with NEK7 degraders was higher than in the group treated with Dexamethasone

Note: CPT-635r is approximately 40% less potent (DC50) in murine systems compared to human / primate

MOG₃₅₋₅₅ Induced Experimental Autoimmune Encephalomyelitis (EAE) In Mice

Therapeutic potential of NEK7 degraders in Collagen-Induced Arthritis model



Male DBA1/J Mice (10 mice per group)

Clinical score/ disease index was assessed by trained, blinded personnel for swelling of digits/paws and erythema

Treatment over 32 days did not induce any side effects

Treatment with CPT-635r at a dose of 30 mg/kg reduced the clinical score by approximately 50% compared to the control group, to a degree

comparable to MCC950. Dose-dependent therapeutic effect is observed (30 mpk vs.10 mpk)

T/B-cell driven; Collagen-Induced Arthritis

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Differentiated safety profile of NEK7 degraders vs. NLRP3 inhibitors

	CPT-635	СРТ-732	NLRP3 inhibitors
Structural features	Classical scaffold	Classical scaffold	Most inhibitors based on sulfonamides; Anhydrases as off-targets ⁵
Inhibition of IL-1ß	Max. 80-90%	Max. 80-90%	100%
	NEK7		NLRP3
Alternative functions (unrelated to inflammasome)	Suspected role in mitotic spindl formation, but not seen with CTX degrader	 Sterile necroinflammation, fibrosis, tissue repair¹ Apoptosis regulation in tubular cells in kidneys (mice showed renal problems upon MCC950 administration)² Innate immune homeostasis in the airway³ Regulation of IL-33 production⁴ 	

- https://www.frontiersin.org/journals/immunology/articles/10.3389/fimmu.2023.1214289/full 1.
- 2. 3. https://portlandpress.com/clinsci/article/136/2/167/230637/Adverse-renal-effects-of-NLRP3-inflammasome
- https://www.mucosalimmunology.org/article/S1933-0219(22)00433-0/fulltext
- 4. https://www.nature.com/articles/s41419-021-04159-9 5.
- https://pubs.acs.org/doi/10.1021/acschembio.1c00218



CT-02: Excellent degraders from two different strategies

Two series of potent NEK7 degraders:

autoimmune diseases (CPT-635) and neurodegenerative disorders (CPT-732, brain-penetrant)

Activity confirmed *in vitro* in mouse, monkey and human cells and *in vivo* in mice and monkeys

Specificity-driven safety demonstrated in *in vitro* analysis, *in vivo* tolerability studies and confirmed in the clean CEREP panel

PK/PD results in monkeys illustrate the attractive features of drug candidates

In vivo proof of efficacy in disease models with no signs of toxicity



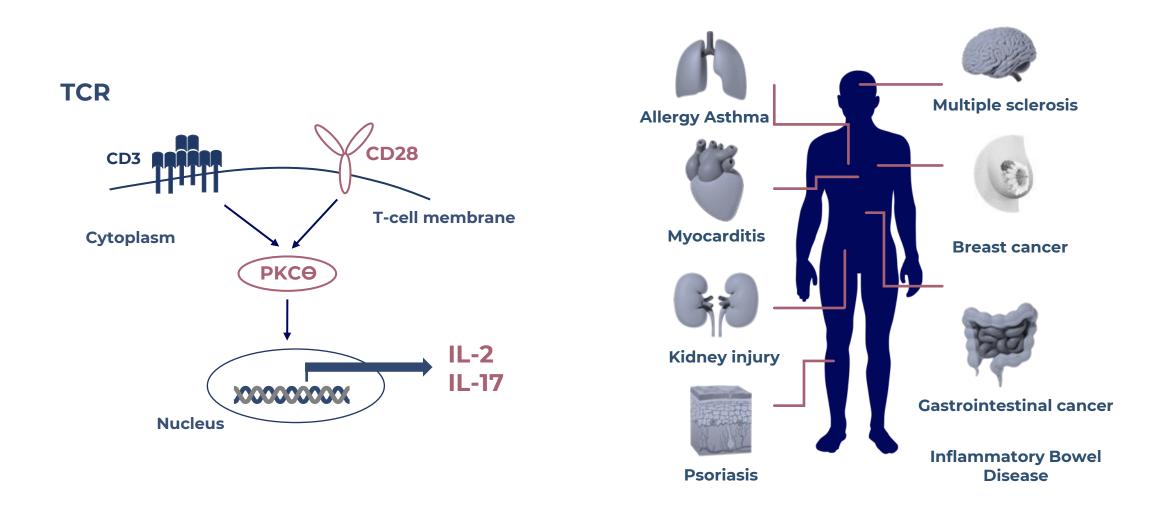


CT-02 (NEK7)

CT-05: First-in-Class PKCO Degraders for Autoimmune Disorders

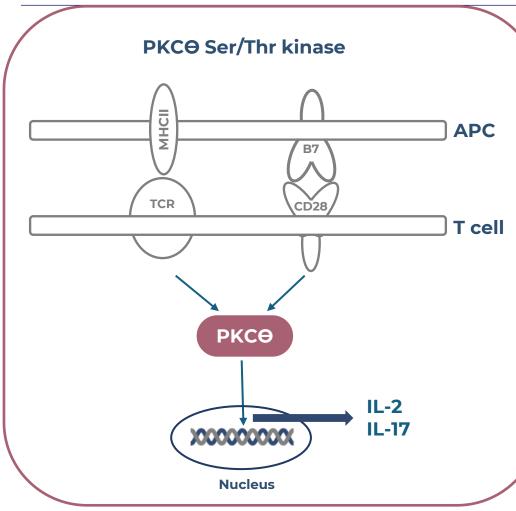


PKCO: an undrugged high value target





PKCO Biology and target rationale



1. PKC-theta in regulatory and effector T cell functions, Brezar V., 2015, Front. Immunol. 6

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- 2. Intervention of PKC-θ as an immunosuppressive regimen, Sun Z., 2012, Front Immunol. 3: 225
- 3. Meta-analysis of genome-wide association study data identifies additional type 1 diabetes risk loci, Cooper J.D., 2008, Nat. Genet. 40, 1399–1401
- 4. Common variants at CD40 and other loci confer risk of rheumatoid arthritis, Raychaudhuri S., 2008, Nat. Genet. 40, 1216–1223
- 5. Genome-wide association study meta-analysis identifie seven new rheumatoid arthritis risk loci, Stahl E.A, 2010, Nat. Genet. 42, 508–514
- 6. Meta-analysis of genome-wide association studies in celiac disease and rheuma toid arthritis identifies fourteen non-HLA shared loci., Zhernakova A., 2011, PLoS Genet. 7, e1002004

Target Biology and rationale

 $\mathsf{PKC}\Theta$ has a thoroughly established role in regulatory and effector T cell functions^{1,2}

PRCKQ locus was shown associated with several immune-related diseases in multiple GWAS studies (type I diabetes, rheumatoid arthritis, celiac disease)³⁻⁶

Human and mouse genetics

PKCO KO mice show impaired *in vivo* T cell activation, decreased IL-17 production and are protected from T cell-mediated inflammatory diseses (EAE, colitis)^{7,8}

Clinical pathway validation

PKCO inhibitor – Sotrastaurin (AEB071) – has been shown effective in preventing IL-17 production and to have a potential for therapeutic option in psoriasis⁹⁻¹¹

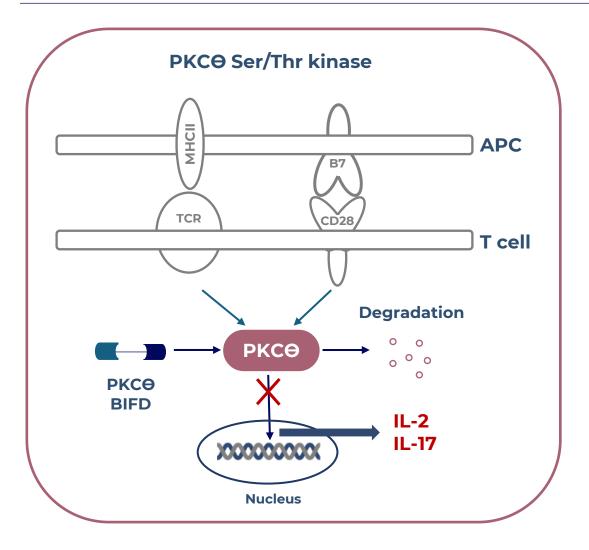
Currently, undergoing clinical evaluation is a novel inhibitor from Exscientia / BMS

7. Mice deficient in PKC theta demonstrate impaired in vivo T cell activation and protection from T cell-mediated inflammatory diseases, Anderson K., 2006, Autoimmunity, 6: 469-487

- Resistance to experimental autoimmune encephalomyelitis and impaired IL-17 production in protein kinase C θ-deficient mice, Tan S-L, 2006, J Immunol. 176(5): 2872-2879
- 9. The PKC inhibitor AEB071 may be a therapeutic option for psoriasis, Skvara H., 2008, J Clin Invest. 118(9): 3151-9
- 10. The protein kinase C inhibitor sotrastaurin allows regulatory T cell function, de Weerd A., 2013, Clin Exp. Immunol. 175(2): 296-304
- 11. Targeting PKC in Human T Cells Using Sotrastaurin (AEB071) Preserves Regulatory T Cells and Prevents IL-17 Production, He X., 2013, J Invest dermatol. 134(4): 975-983

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Rationale for targeted degradation of PKCO



PKCO is a master regulator of T cell differentiation, proliferation and functions.

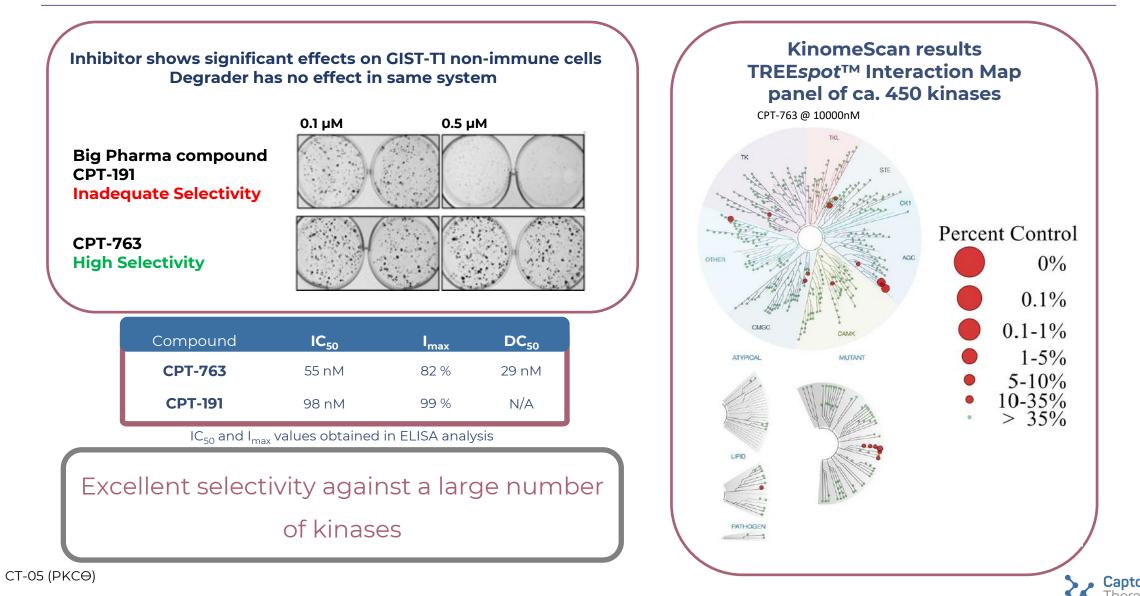
Drawbacks of the 1st and 2nd generation PKCO inhibitors were related to multiple side effects due to unspecificity and insufficient target coverage.

The degrader offers disabling not only kinase but also scaffolding functions of the protein.

PKCO degradation has the potential to abolish T cell survival signal and promote the apoptosis of activated, self-reactive T cells in autoimmune diseases.



CPT-763 is highly selective in a panel of assays



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- Highly selective for PKC0 with no off-target toxicity
- Early stage of lead optimisation with 2 compounds has demonstrated:
 - In vitro: degradation of PKC0 in mouse & human T-cells & inhibition of IL-2 in human T-cells
 - *In vivo*: degradation of PKCθ in mouse splenocytes
- Next steps:
 - Partnering discussions





Optigrade™ Targeted Protein Degradation Platform Molecular glues Bifunctional Degraders Novel E3 ligases

LiLis[™] program: developing novel E3 ligases beyond CRBN

- Expanding the range of targets for effective degradation
- CRBN down regulation-driven resistance mechanisms in cancer
- Crowded IP space for CRBN binders
- Opportunity for cell type or cell compartment specificity

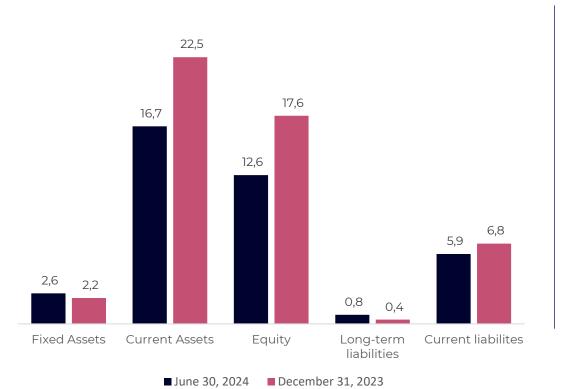
In-house developed E3 ligase production platform and is generating leads for novel E3s



Finance Highlights

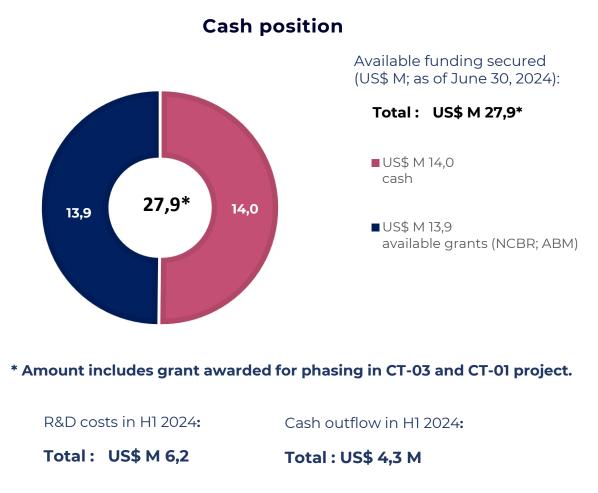


Balance sheet and cash position



Consolidated statement of financial position (US\$, M)

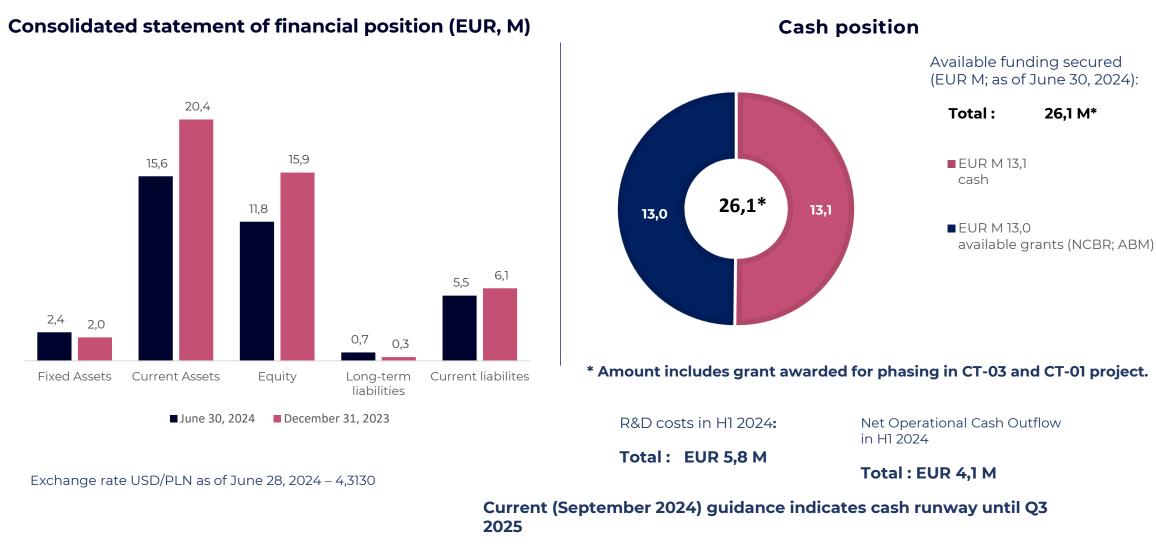
Exchange rate USD/PLN as of June 28, 2024 – 4,0320





Finance

Balance sheet and cash position

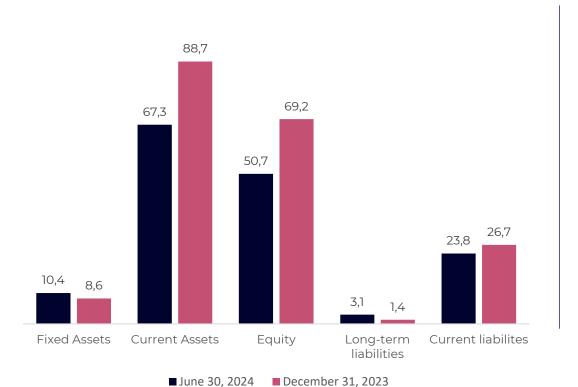


Finance



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Balance sheet and cash position



Consolidated statement of financial position (PLN, M)

Available funding secured (PLN M; as of June 30, 2024): Total: PLN 112.6* ■ PLN M 56,5 cash 112,6* 56,5 56,1 ■ PLN M 56.1 available grants (NCBR; ABM) * Amount includes grant awarded for phasing in CT-03 and CT-01 project.

Cash position

R&D costs in H1 2024:

Net Operational Cash Outflow in H1 2024:

Total: PLN 25,2 M

Total : PLN 17,5 M (H1 2023 -PLN 31,5 M)



Finance

Captor Therapeutics®

Captor Therapeutics S.A.

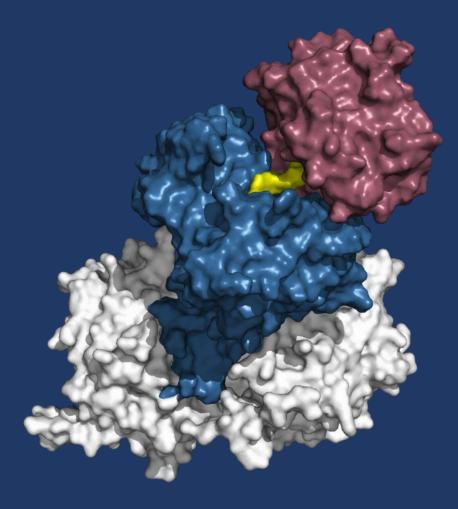


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Projects co-financed by the European Regional Development Fund:

Discovery and development of a new clinical drug candidate for the eradication of cancer stem cell in the treatment of hepatocellular carcinoma, through degradation of oncofetal transcription factor" (FENG.01.01.01-00-0740/19-00)

Discovery and development of a new clinical drug candidate for the eradication of cancer stem cell in the treatment of hepatocellular carcinoma, through degradation of oncofetal transcription factor - Stage II (POIR.01.01.IP.01-1001/23)

Inducing apoptosis with small molecules as therapeutic intervention in multiple severe malignancies (POIR.01.01.01-00-0956/17-01)

Inducing apoptosis with small molecules as therapeutic intervention in multiple severe malignancies – Stage II (FENG.01.01-IP.01-1002/23)

Application of targeted protein degradation technology in the treatment of psoriasis and rheumatoid arthritis (POIR.01.02.00-00-0079/18-00)

Development of an integrated technology platform in the field of targeted protein degradation and its implementation to the pharmaceutical market (POIR.01.01.00-0931/19-00)

Discovery and development of non-toxic ligase ligands and their application in the treatment of autoimmunological diseases (POIR.01.01.00-0741/19-00)



Project co-financed by the state budget from the Medical Research Agency:

Design and clinical development of a first-in-class small-molecule drug candidate for the treatment of colorectal cancer based on the stimulation of immune cells to increase anti-cancer activity through induced protein degradation (2022/ABM/06/00001 - 00)



