

Disturbing Cancer Resistance with Targeted Degradation of MCL-1

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About Captor



A global, highly qualified team:





- Based in Wroclaw (Poland) and Basel (Switzerland)
- Backed by private and non-dilutive public funds as well as funds raised in recent IPO
- Disruptive platform in drug discovery
- Five drug programs in large potential markets
- ~85 FTEs on board, almost half of them are PhD level specialists
- Joint experience from more than 11 leading international universities
- 1,100 m² of laboratory space equipped with state-of-the-art equipment





Company Pipeline

#	Indications	Modality	Discovery	Preclinical*	IND Filing	FIH**
CT-01	Hepatocellular carcinoma	MG		•		
CT-02	Autoimmunity Liquid tumors	MG -		•		2023
CT-03	Liquid & solid tumors	BID -		•		
CT-04	Colorectal cancer	BID -	-			
CT-05	Autoimmunity Solid tumors & other	BID	•			
Partner	ed Program				l	
	Gastrointestinal diseases, e.g. IBD	-	Par	tnership with Sosei Heptares		
*Preclinic **First in I	al stage include IND-ena Human; at least 2 project	bling studies s expected to enter Pl	hase I by 2023			

BID – Bifunctional Degrader; MG – Molecular Glue



MCL-1: A BREAKTHROUGH APPROACH TO A HIGH-POTENTIAL ONCOGENE



Resistance Mechanisms in Cancer

Intrinsic

Pre-existing, e.g.

- Subpopulation of cancer cells resistant to treatment or
- Mutant proteins irresponsive to drugs' activity



Acquired, e.g.

- Activation of alternative molecular pathway
- Secondary mutation in protein targets, e.g., BCR-ABL T3151





In a heterogenous cell population, only a minority of cells over-express MCL-1 Clonal selection from MCL-1 overexpressing cells in resistant tumor cells



Antiapoptotic Proteins Are Important Drug Targets



Venetoclax (Abbvie), a BCL-2 inhibitor is approved for the treatment of CLL and AML, with over \$1.3B sales in 2020

VENCLEXTA"

120 Tablets

olocivie Gimin

100 mg

NDC 0074-0576-22

VENCLEX"

120 Tablets

Dispense the accompanying Medication Guide to each pa

100 mg

Imbalance in pro- and antiapoptotic proteins dictates the cancer cell survival



MCL-1 – as a High Potential Oncology Target



Splicing variants of the human MCL-1 gene

Wang H et al. (2021) J Hematol Oncol

MCL-1 inhibitor compounds in development

Compound	Company	Phase
MIK665	Servier/Novartis	1/11
AZD-5991	AstraZeneca	I
AMG176	Amgen	I
PRT1419	Prelude Therapeutics	I



Papatzimas et al. (2019) J Med. Chem



Challenges in Targeting MCL-1 with Small Molecules





Captor Therapeutics®

Biophysical Characterization of MCL-1 degraders





Proteasome-dependent MCL-1 Degradation







CRBN-dependent MCL-1 Degradation



CPT-2036 + HyThal [10 µM]



Cell Viability in MCL-1 Sensitive & Insensitive Cell Lines



CPT-2036 is cytotoxic to MCL-1-dependent cell lines



In Vivo Degradation and Apoptosis Induction



Potent MCL-1 degradation after single dose of CPT-2036

MCL-1 Degraders Show Reduced Cardiac Toxicity



Captor MCL-1 degraders don't induce accumulation in cardiomyocytes

Captor

nerapeutics®



Summary

- Developed potent MCL-1 bi-functional degraders that induce apoptosis *in vivo* after single dose
- MCL-1 degraders show reduced cardiotoxicity compared to inhibitors
- IND-enabling studies planned for H1 2022



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