

a subsidiary of SK biopharmaceuticals

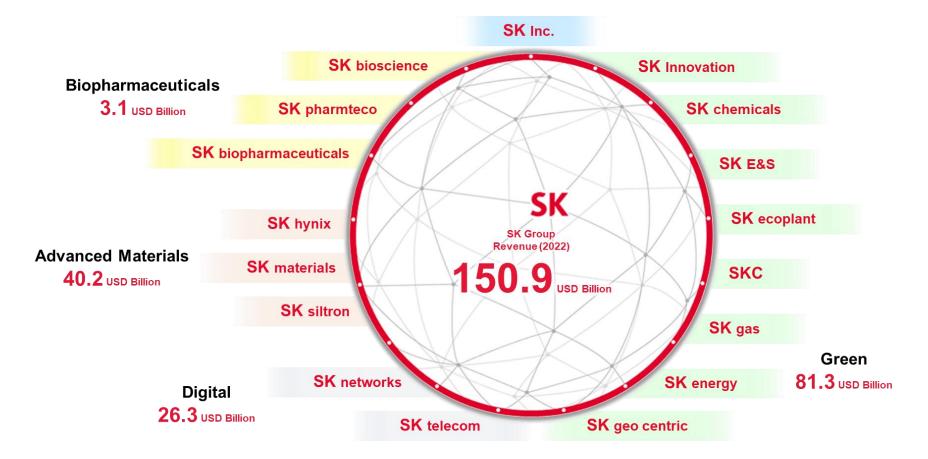
Discovering Better Medicines through Target-Centric TPD Powered by MOPED[™] Glue Platform



Non-Confidential

SK Group at Glance

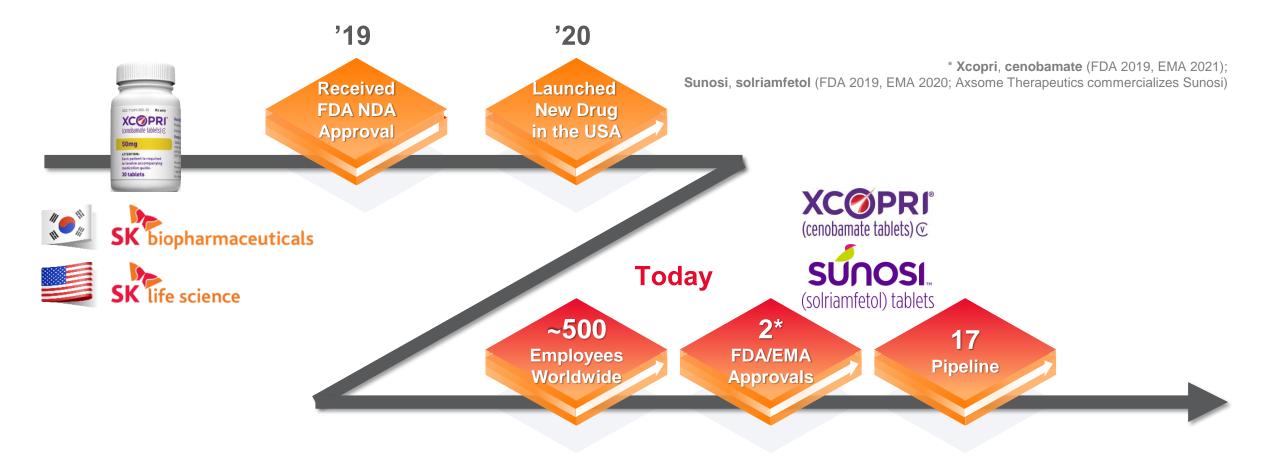
SK Group invest in game-changing business and nurture them for long-term success





SK Biopharmaceuticals (SKBP)

The first & only Korean company to independently develop & commercialize a new drug in the USA





SK Biopharmaceuticals (SKBP) & Subsidiaries

From bench (Korea) to market (the USA)

Headquarters **SK** biopharmaceuticals

Executes company-wide strategies, develops businesses and identifies new drug candidates



- Drug Research Center
- Cancer Research Center
- Global Business Development
- R&D Innovation Department
 - Corporate Strategy



Explore new business opportunities and obtains relevant licenses in China



- **Business Development**
- Discovery Support
- **Regulatory Activity**

....

Subsidiaries

Performs global R&D of TPDs for oncology and immunology





Performs global clinical development and marketing directly



- Clinical Development Operation Office
- Project Management
- Quality Assurance
- Regulatory Affairs



SK Life Science Labs (SKLSL) & Leadership

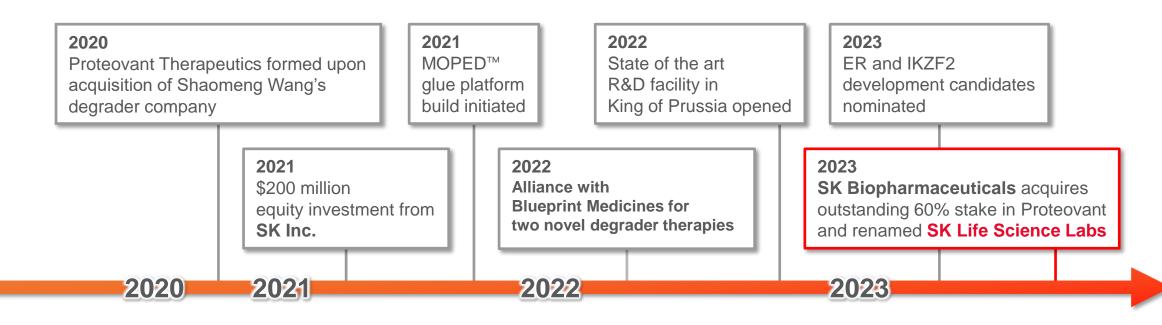
120 years of R&D leadership in drug discovery & development





History of SKLSL

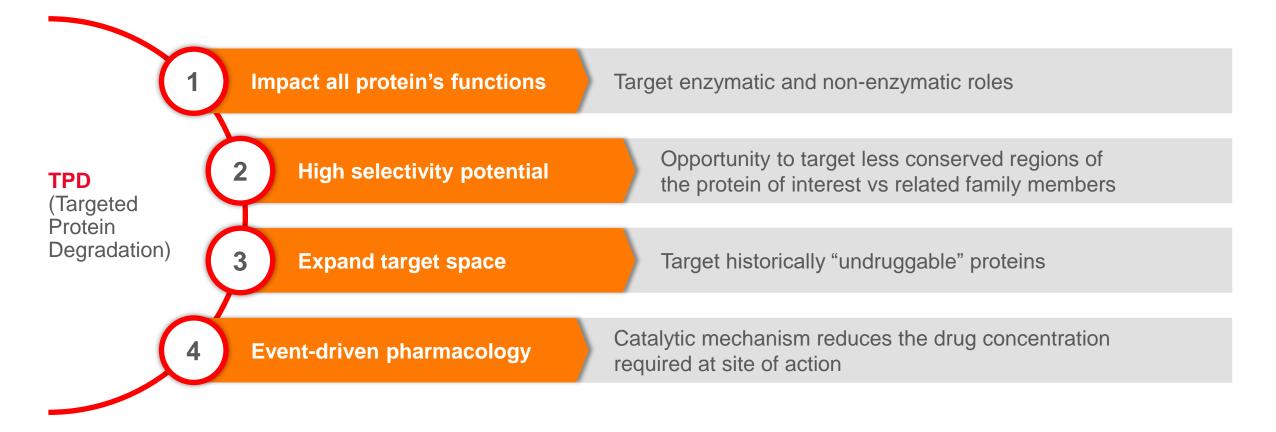
Discovering & developing medicines to improve the lives of patients with life-altering diseases





Why targeted protein degradation?

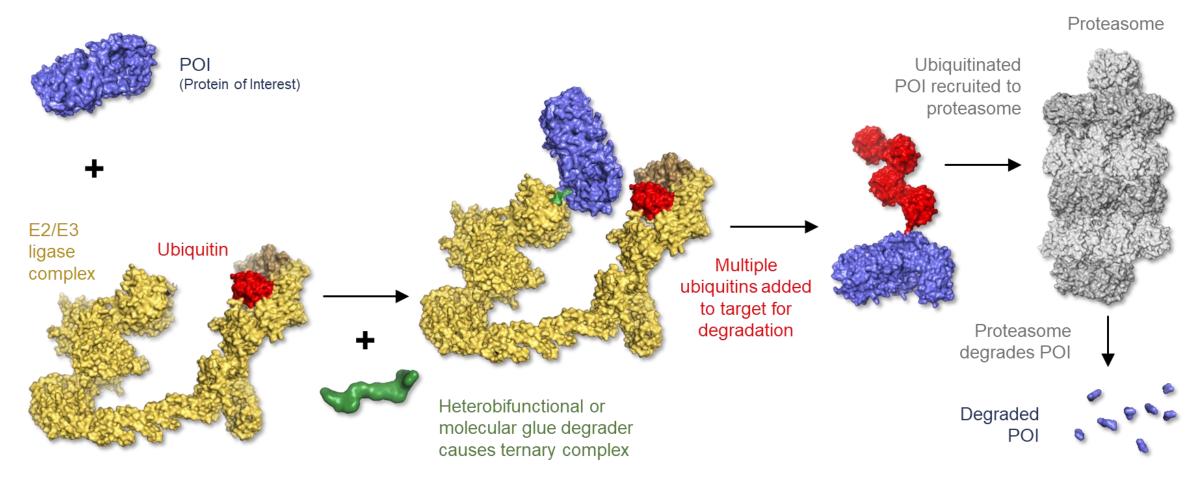
Protein degradation offers advantages to improve clinical outcomes





Targeted protein degradation

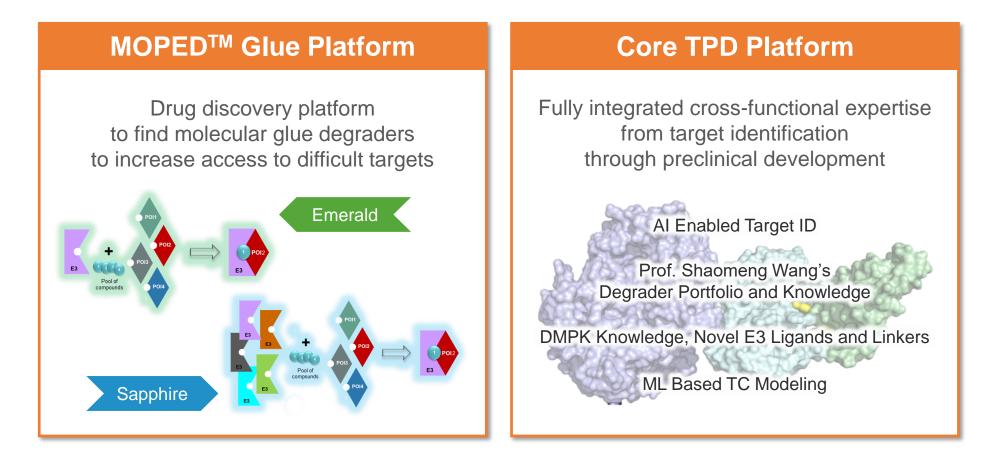
Unlocking a vast opportunity to expand the druggable proteome





SKLSL TPD capabilities powered by innovative platform

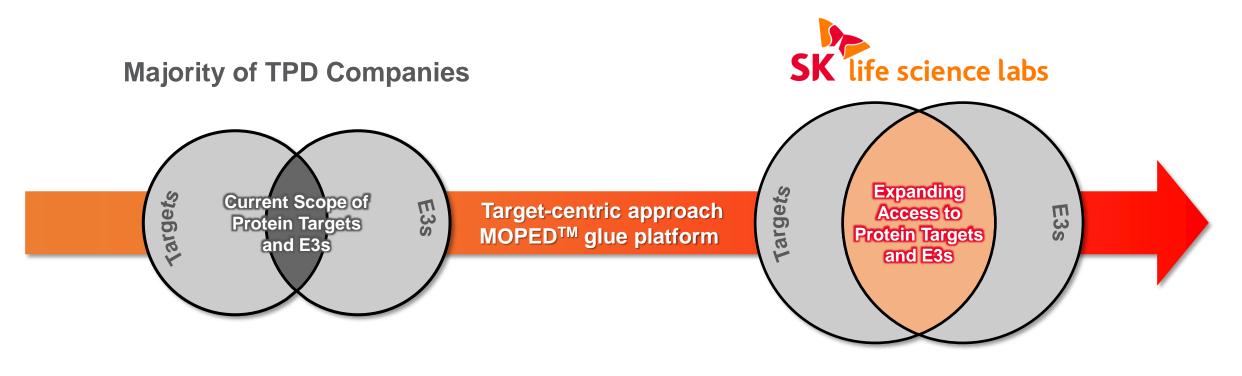
Proprietary drug discovery & preclinical development engine





SKLSL differentiated approach breaks through limits of TPD

MOPED[™] expands SKLSL core TPD capabilities to include E3 & target agnostic glues



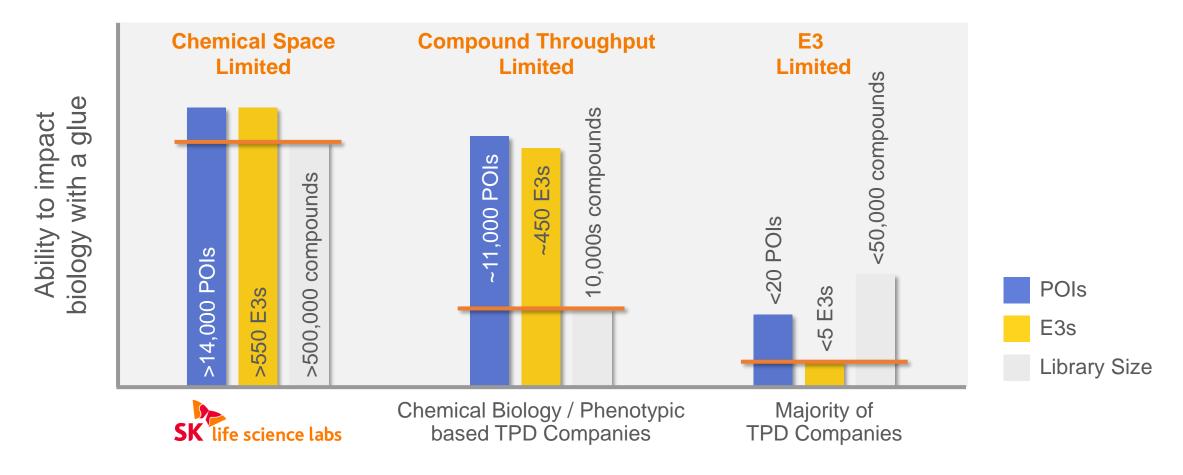
Heterobifunctional TPD companies primarily use **CRBN** and **VHL**, Molecular glue TPD companies predominantly exploit **CRBN** or **phenotypic discovery**

SKLSL target-centric approach and MOPED[™] platform expands access to a wider range of targets and E3s



SKLSL expands access to targeted biology accessible by TPD

MOPED[™] enables target & E3 agnostic glue discovery at scale

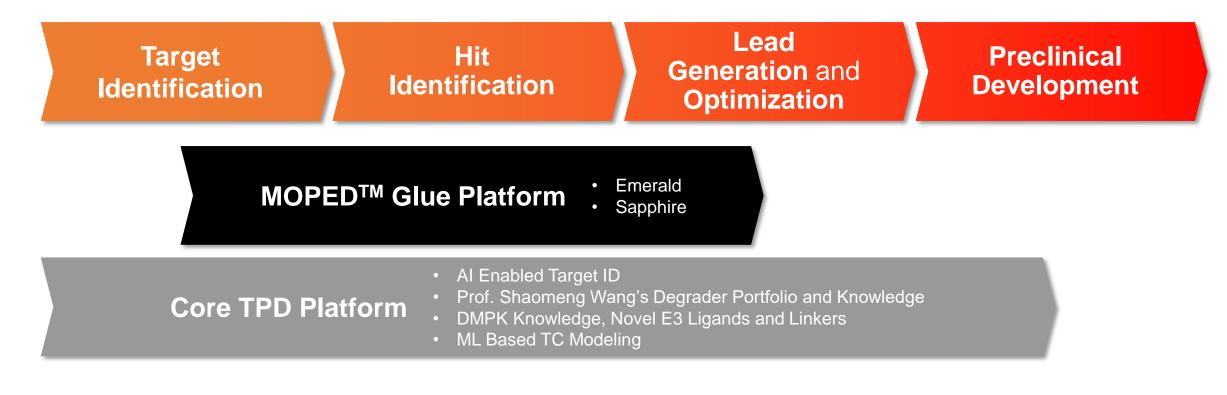


SK life science labs

MOPED™ Glue Platform As of Dec 2023 12

Differentiated platforms & capabilities enable each phase of discovery

MOPED[™] enables molecular glue target identification through lead optimization





MOPED[™] is an innovative platform for glue discovery

MOlecular **P**roximity **E**nabled **D**etection (MOPED[™])

Emerald

A highly sensitive biochemical workflow to discover glues from defined drug target and pre-selected E3s

Sapphire An E3 agnostic mass spectroscopy workflow to discover glues against defined drug targets Molecular Glue Discovery

INCREASE ACCESS TO TARGETS

Targeting structured and unstructured regions

INCREASE NUMBER OF LEADS

Multiplexing compounds, targets, and/or E3s

BROADEN BIOLOGICAL IMPACT

Exploring potential biological functions beyond TPD

EXPAND E3 OPPORTUNITIES

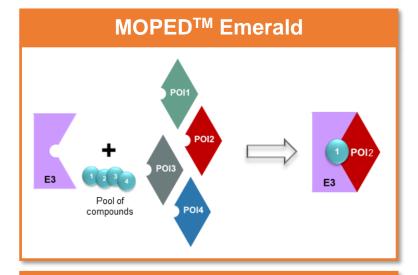
Known E3s, target matched E3s, and/or E3 agnostic



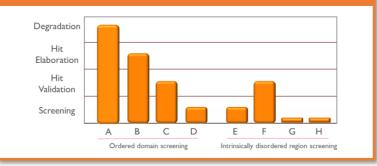
Emerald: Biochemistry designed for molecular glue discovery

Highly Sensitive design to find leads for chemical optimization

- Glue screen to measure ternary complex formation
 - Biochemical assay format with sensitivity to detect <2 nM of ternary complex
 - 10-20 E3s are tested individually and include widely used E3s and target matched E3s
 - Library of E3s expanding throughout 2024
 - Pools of compounds and POIs are tested for efficient 1536-well screening of a >500,000 compound library
- 8 targets in screening through hit follow-up
- Oncology target A was screened, yielding molecular glues that demonstrate degradation
 - Screening start to validated hits in 2 months
 - Validated hits to degradation in 1 month



Progressing Hits from Targets

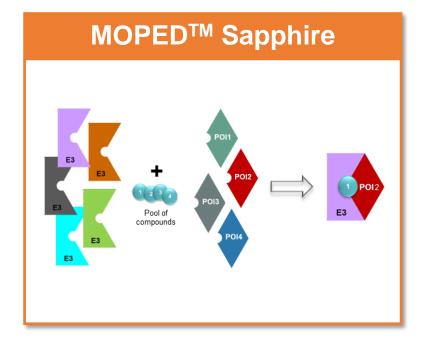




Sapphire: Molecular glue screening in a cellular context

Expanding target & E3 opportunities

- Mass spectrometry assay to detect ternary complex formation
 - Assay format identifies ternary complexes in a cellular context
 - Mixtures of E3s and POIs are tested for efficient screening of >500,000 compound libraries
 - Sensitivity to detect 10 μM EC50 ternary complexes
 - High-throughput 384 well assay
- Leverages proprietary high-throughput proteomics
- Ternary complexes identified using Emerald confirmed in cellular context by Sapphire

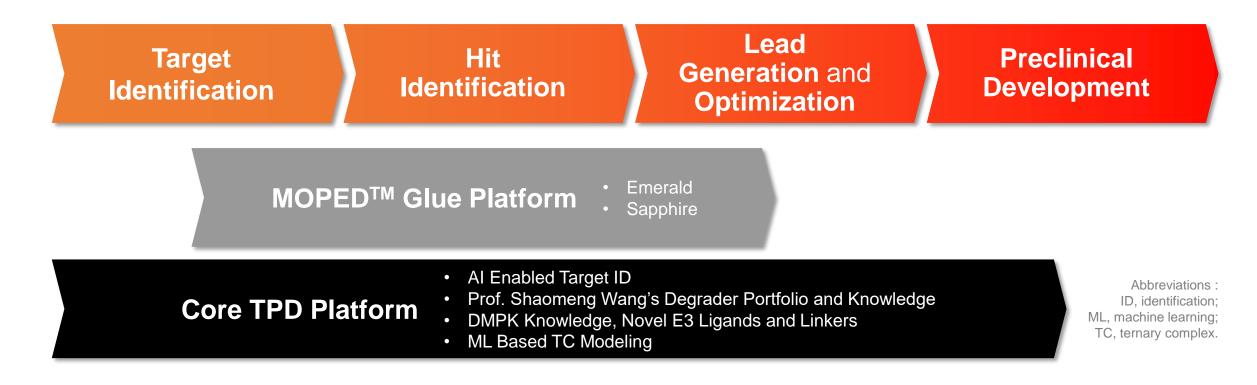




Core TPD Platform As of Dec 2023 17

Differentiated platforms & capabilities enable each phase of discovery

Core TPD capabilities are leveraged from target identification through preclinical development





Al enabled approach provides continuous flow of target opportunities

Target identification & prioritization

Target Identification	Hit Identification	Lead Generation and Optimization	Preclinical Development	
Al Enabled Target ID				
	Prof. Shaomeng Wan	g's Degrader Portfolio and Know	ledge	
	DMPK Knowledge, Nove	DMPK Knowledge, Novel E3 Ligands and Linkers		
		ML Based TC Modeling		

Data	Data	Al Optimization of	Filtering to
Aggregation	Structuring	Target Features	Select Candidates
More than 40 sources of	Millions of data points	Proprietary AI trained on	The AI model ranked
data are accessed	aggregated into ~2TB	well validated targets	>20,000 proteins and
containing	and structured into	using ~250 numeric and	identified <u>>150 potential</u>
>60 million data points	5 different databases	categorical features	<u>first-in-class targets</u>
<image/>		GeneFeature1Feature2Feature3AAABAACAA	





In-licensing Prof. Shaomeng Wang's degrader portfolio & knowledge

Greater than 20 degrader patents licensed to SKLSL







The combination of DMPK database, novel E3 ligands & linker libraries

Lead generation & optimization

Target Identification	Hit Identification	Lead Generation and Optimization	Preclinical Development		
AI Enabled Target ID					
	Prof. Shaomeng Wang's Degrader Portfolio and Knowledge				
	DMPK Knowledge, Novel E3 Ligands and Linkers				
		ML Based TC Modeling			

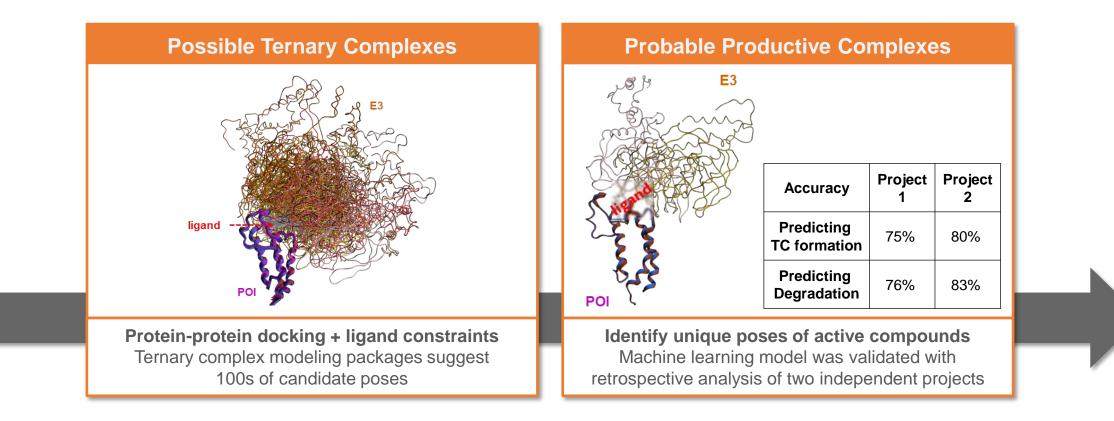
lovel E3 Ligand and Linker Libraries		Diverse DMPK Database	
			DMPK data for >900 unique heterobifunctional molecular glue degraders from 6+ programs
Type of compound	Number of unique compounds (chemotypes)	Screening assay	Number of unique compoun
er	>1400 (~450)	Plasma protein binding	>300
ligand	>100 (~15)	Metabolic stability	>600
N ligand	>900 (~110)	Mouse PK	>300
ner E3 ligand	>15 (~15)	Rat PK	>250



Proprietary machine learning based ternary complex modeling

Lead optimization

Target Identification	Hit Identification	Lead Generation and Optimization	Preclinical Development
Al Enabled Target ID			
	Prof. Shaomeng War	ng's Degrader Portfolio and Know	ledge
	DMPK Knowledge, Nov	el E3 Ligands and Linkers	
		ML Based TC Modeling	



SK life science labs

As of Dec 2023 23

SKLSL Current Focus: Oncology & Immunology

SKLSL programs and platforms are well positioned for partnering

Program	Disease Area	Discovery	Preclinical
IKZF2	Solid Tumors	PVTX-405	
ER	HR+ Breast Cancer	PVTX-321	
p300	Oncology		•
STAT3	Immunology, Oncology		
SMARCA2	Oncology		
Heterobifunctional Target	Oncology		
Molecular Glue Target	Oncology		



PVTX-405 : Best-in-Class IKZF2 Degrader

GLP-Tox Scale-Up Ready Orally Available IKZF2 Molecular Glue Degrader for Solid Tumors

IKZF2 (Helios)

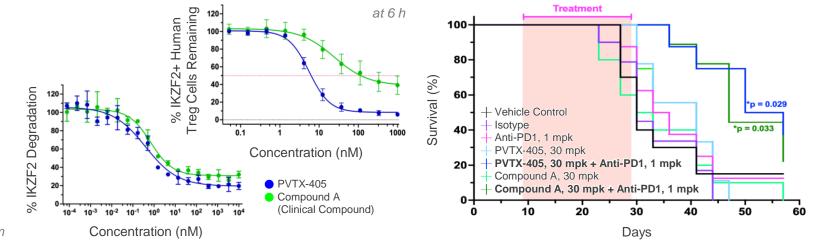
- Stable immunosuppressive activity of Tregs in TME requires IKZF2 expression
- IKZF2 degradation destabilizes Tregs and activates Teffs
- ~450,000 patients with solid tumors (US) with up to 100,000 predicted to respond to IKZF2 MoA

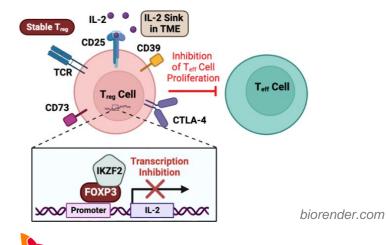
IKZF2 Molecular Glue Degrader

- Rapid, potent, and selective IKZF2 degrader for immuno-oncology with <u>improved off-target</u> <u>activity against SALL4 (10X)</u> and <u>improved</u> <u>hERG IC50 (5X)</u> (vs Compound A)
- Orally bioavailable and low clearance across species (mouse, rat, and monkey)

In Vivo PoC & Non-GLP Tox Completed

- <u>Significant increase in CRs</u> (4/10) in the combo with anti-PD1 in syngeneic mouse model compared to Compound A + anti-PD1 (1/10)
- <u>Favorable</u> (non-GLP) <u>safety margin</u> in rat and monkey DRF studies





life science labs



PVTX-321 : Best-in-Class Estrogen Receptor Degrader

GLP-Tox Scale-Up Ready Orally Available ER Heterobifunctional Degrader for Breast Cancer

Estrogen Receptor (ER)

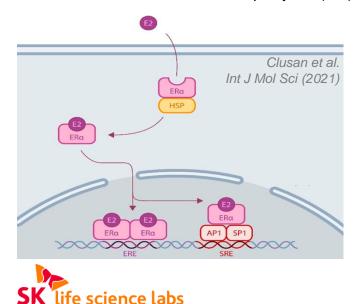
- Validated oncogenic target in breast cancer
- ER pathway suppression leads to inhibition of cancer cell growth
- 70-80% of breast cancers are ER+ with incidence of >180,000 cases per year (US)

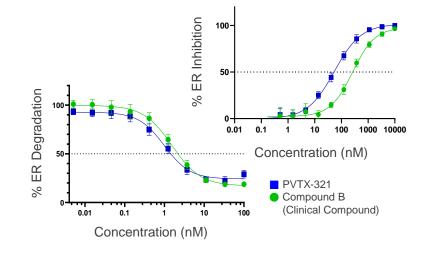
ER Heterobifunctional Degrader

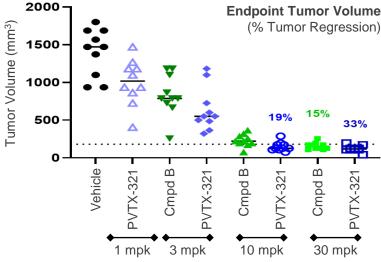
- Potent and selective degrader of wild-type ER and clinically relevant mutations with <u>enhanced</u> <u>antagonistic activity</u> (vs compound B)
- <u>Orally bioavailable</u> and <u>low clearance</u> across species (mouse, rat, dog, and monkey)

In Vivo PoC & Non-GLP Tox Completed

- <u>Enhanced tumor regression</u> in CDX model of breast cancer (vs compound B)
- <u>Favorable</u> (non-GLP) <u>safety margin</u> in rat and dog DRF studies



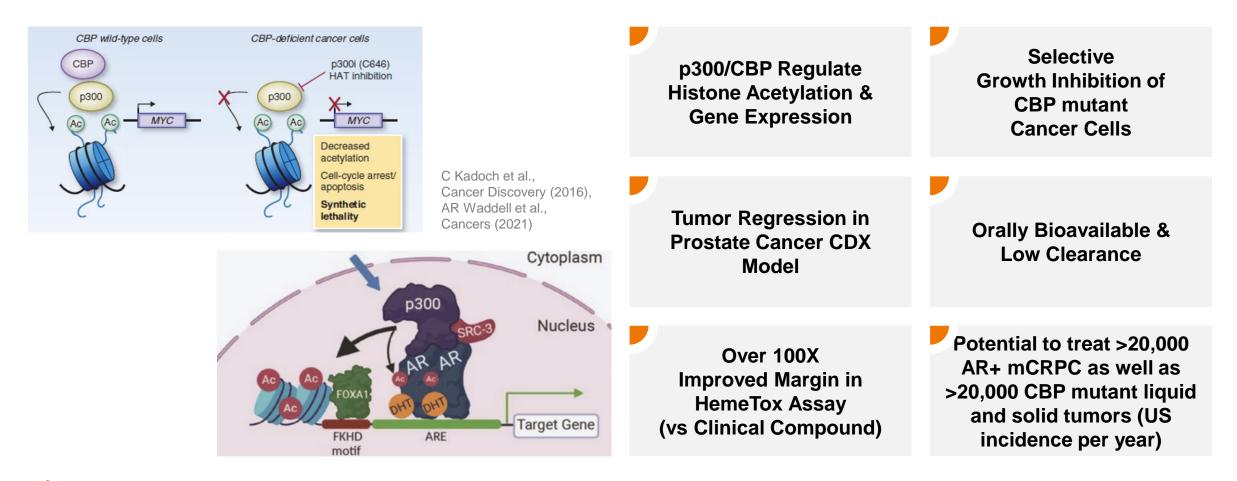




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Discovery: First-in-Class p300 Degrader

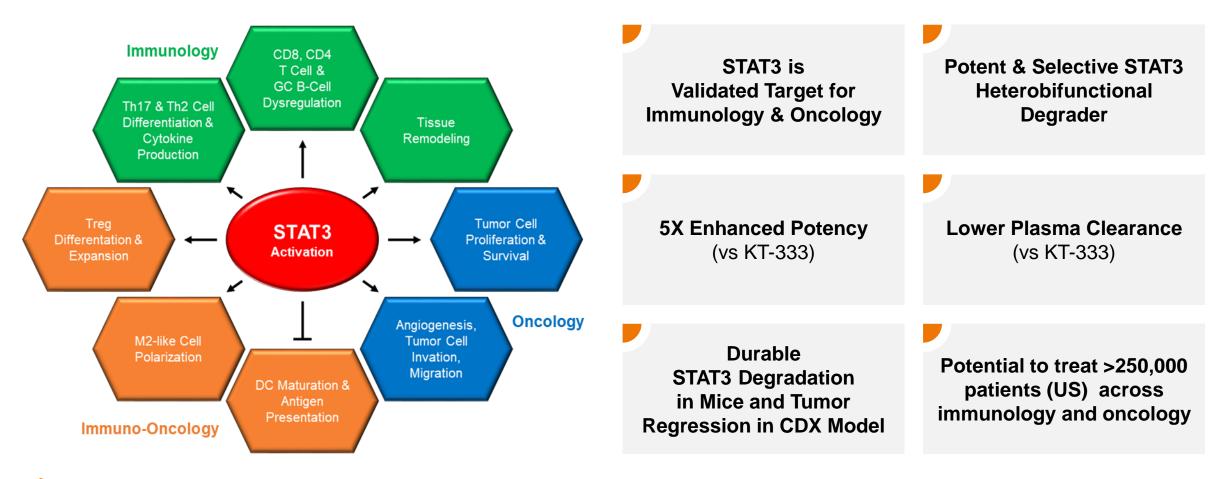
Orally Available p300 Selective Heterobifunctional Degrader for CBP Mutant Cancer and mCRPC





Potential Best-in-Class STAT3 Degrader

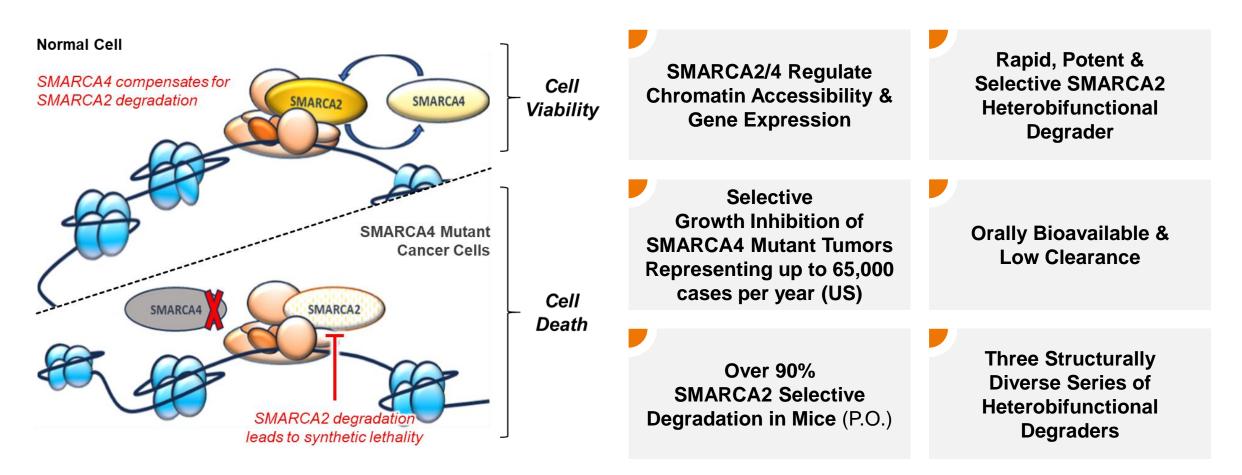
STAT3 Heterobifunctional Degrader for Immunology & Oncology





Discovery : Best-in-Class SMARCA2 Degrader

Orally Available SMARCA2 Selective Heterobifunctional Degrader for SMARCA4 Mutant Cancer





Contact Information Kiel Kim VP, Global Business Development kielkim@sk.com Thank You Sua Jang, Ph.D. Director, Global Business Development supersua@sk.com Jae Chung Manager, Global Business Development jchung1218@sk.com