

# 2023 Q3 Results

November 2023



# China's Leading Innovative Pharmaceutical Enterprise



## R&D Capabilities

- **8** R&D platforms
- **5** R&D centres located in China & the U.S.
- ~ **2,000** R&D staff
- ~ **300** R&D projects (~**130** innovative projects)
- R&D expenses in YTDQ3 2023: RMB3.68B



## Commercialization Capabilities

- **10,000+** professional sales personnel
- Covered **35,000+** medical institutions across the country, of which **2,900+** Class 3 hospitals (more than 90%), **7,000+** Class 2 hospitals (more than 70%), **26,000+** other terminals and **350,000+** drug stores
- Products exported to **114** countries/regions in 6 continents, including the U.S. and Europe; marketing centers established in the U.S., Germany and Brazil



## Manufacturing Capabilities

- **10+** pharmaceutical production bases
- Nano formulation: **27** production lines built with production capacity of **20M** doses/year; **2** production lines under construction with production capacity of **2M** doses/year
- Biologics: fermentation capacity of **40,000L**
- Chemical drugs: production capacity of OSD~**30B** tablets/year, production capacity of injection ~**3B** doses/year
- mRNA vaccines: GMP-compliant production plant has been built
- siRNA: 2 pilot scale production lines has been built; commercial scale production line is under construction

# 2023 YTD Q3 Highlights

## R&D

### **4 new drug approvals:**

Covid-19 mRNA vaccine (EUA)  
Desvenlafaxine succinate extended-release tablets  
Narlumosbart for injection  
Irinotecan liposome injection

### **5 applications for marketing approval:**

Enlonstobart (PD-1)  
Amphotericin B liposome  
Prugliptin tablets (DPP-4)  
Omalizumab  
Batoclimab

### **28 IND approvals in China:**

15 for the first indication  
13 for additional indications

### **North America:**

CPO301 obtained IND approval and granted fast track in the U.S.  
CPO301 obtained IND approval in Canada



## Business

- Revenue increased by **1.6%** to **RMB23.87B**
- Underlying profit attributable to shareholders\* (see page 6) increased by **2.0%** to **RMB4.72B**

## BD

- Nectin-4ADC: licensed-out the rights in the US, EU, UK, Canada, Australia, Iceland, Liechtenstein, Norway and Switzerland to Corbus, with **US\$7.5M** upfront payment, potentially **US\$685M** milestone payment and royalty.
- Obtained the exclusive promotion rights of Glumetinib (c-MET inhibitor) from Haihe Biopharma. The product has been approved for marketing in March 2023
- Signed a strategic partnership agreement with Pfizer to launch a local brand of the COVID-19 oral therapeutic treatment Nirmatrelvir/Ritonavir in China



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Part 01

**Financial Highlights**

# Financial Highlights

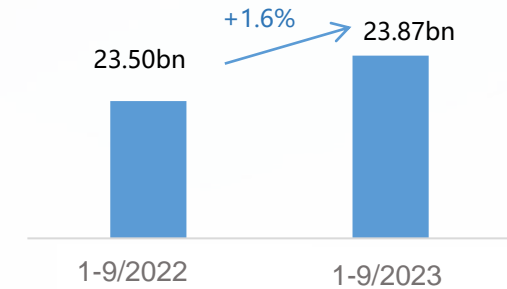
Unit: RMB '000

	1-9/2023	1-9/2022	Change
Revenue	23,865,076	23,495,518	+1.6%
Gross profit	16,792,100	17,082,304	-1.7%
Gross profit margin	70.4%	72.7%	-2.3pp
R&D expenses	3,677,949	2,920,249	+25.9%
Underlying profit attributable to shareholders*	4,715,187	4,623,720	+2.0%
Profit attributable to shareholders	4,494,641	4,467,837	+0.6%
Basic earnings per share (RMB cents)	37.84	37.49	+0.9%

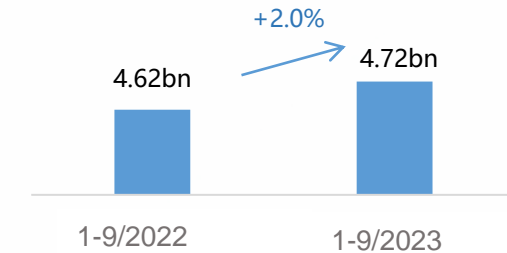
\*Note:

Underlying profit attributable to shareholders, a non-HKFRS measure, represents profit before taking into account fair value loss on financial assets measured at fair value through profit or loss, employee share-based compensation expense and gain on deemed disposal of partial interest in an associate.

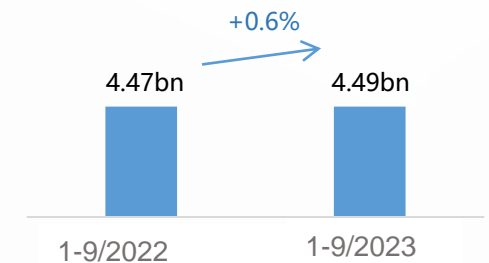
## Revenue



## Underlying profit attributable to shareholders



## Profit attributable to shareholders



# Revenue

## Revenue by product category

Unit: RMB MM

	1-9/2023	1-9/2022	Change
<b>Finished drugs</b>	19,338	18,613	+3.9%
<b>Bulk vitamin C</b>	1,513	1,978	-23.5%
<b>Bulk antibiotics</b>	1,362	1,155	+17.9%
<b>Functional Food and Others</b>	1,652	1,750	-5.6%



## Finished drug revenue

Unit: RMB MM

	1-9/2023	1-9/2022	Change
<b>Nervous system</b>	6,926	6,012	+15.2%
<b>Oncology</b>	4,624	5,866	-21.2%
<b>Anti-infective</b>	3,143	2,646	+18.8%
<b>Cardiovascular</b>	1,836	2,173	-15.5%
<b>Respiratory system</b>	1,159	440	+163.5%
<b>Digestion &amp; metabolism</b>	662	564	+17.4%
<b>Others</b>	953	726	+31.3%
<b>Licence fee income</b>	35	186	-81.3%



# Operating Profit

Unit: RMB MM

	1-9/2023	1-9/2022	Change	1-9/2023 OPM	1-9/2022 OPM	Change
<b>Finished drug</b>	4,959	4,587	+8.1%	25.6%	24.6%	+1.0pp
<b>Bulk vitamin C</b>	52	403	-87.2%	3.4%	20.4%	-17.0pp
<b>Bulk antibiotics</b>	104	89	+16.1%	7.6%	7.7%	-0.1pp
<b>Functional Food and Others</b>	440	476	-7.6%	26.6%	27.2%	-0.6pp

Note: certain percentage changes of financial figures contained in this material are calculated based on the corresponding financial figures in RMB for two periods/years, rounded to the nearest thousand. Therefore, the percentage changes listed in certain tables may differ from those calculated based on the financial figures in RMB for two periods/years, which are presented in million.

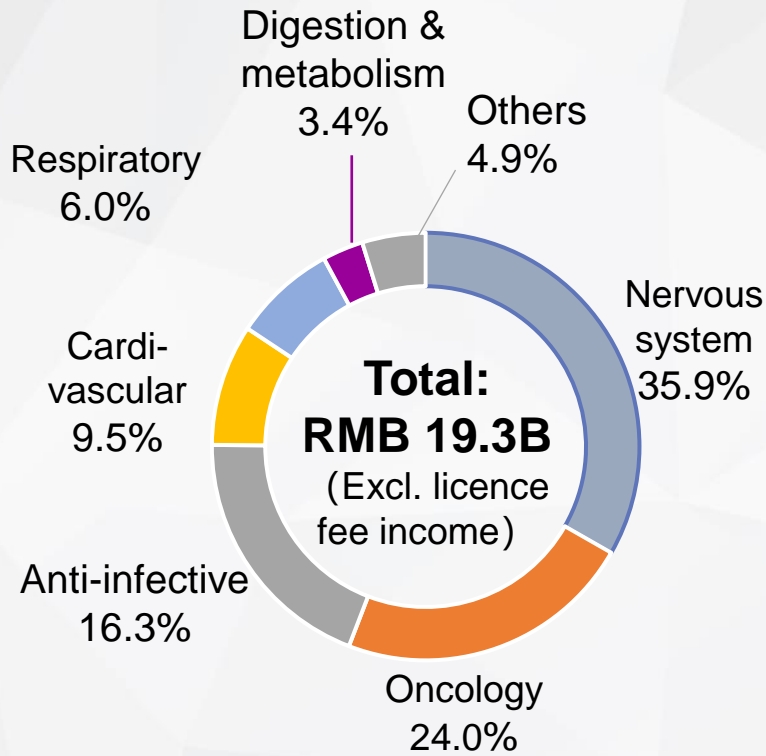




Part 02

Business Review

# Finished Drug Overview by Therapeutic Areas



## Nervous system

- Major products include NBP (butylphthalide soft capsules, butylphthalide and sodium chloride injection), Ouyuexin (desvenlafaxine succinate extended-release tablets), Shuanling (pentoxifylline extended-release tablets, pentoxifylline injection), Oulaining (oxiracetam capsules, oxiracetam for injection), Enxi (pramipexole dihydrochloride tablets), Enliwei (lacosamide injection, lacosamide tablets and Oushuan (paliperidone extended-release tablets)

## Oncology

- Major products include Duomeisu (doxorubicin hydrochloride liposome injection), Jinyouli (PEG-rhG-CSF injection), Keaili (paclitaxel for injection (albuminbound)), Duoenda (mitoxantrone hydrochloride liposome injection), Duoenyi (irinotecan hydrochloride liposome injection), Jinlisheng (Narlumosbart for injection), Copiktra (duvelisib capsules) and Geruite (lenvatinib mesilate capsules)

## Anti-infective

- Major products include Anfulike (amphotericin B cholesteryl sulfate complex for injection), Shuluoke (meropenem for injection), Nuomoling (amoxicillin capsules), Weihong (azithromycin capsules, azithromycin for injection), and Zhongnuo Eta (Ertapenem for injection)

## Cardio-vascular

- Major products include Xuanning (levamlodipine maleate tablets and dispersible tablets), Mingfule (recombinant human TNK tissue-type plasminogen activator for injection), Encun (clopidogrel bisulfate tablets), Daxinning (dronedarone hydrochloride tablets) and Yishuning (nifedipine controlled-release tablets)

## Respiratory system

- Major products include Yiluoda (nintedanib capsules), Qixin (oseltamivir phosphate capsules), Qixiao (arbidol hydrochloride tablets), Nuoyian (montelukast sodium tablets/chewable tablets), Zhongnuo Like (ambroxol hydrochloride oral solution) and Zhongnuoping (ambroxol hydrochloride extended-release tablets)

## Digestion & metabolism

- Major products include Debixin (omeprazole enteric capsules), Linmeixin (glimepiride dispersible tablets), Shuanglexin (metformin hydrochloride tablets/extended-release tablets) and Xinweiping (acarbose tablets)

## Others

- Major products include Gubang (alendronate sodium tablets/enteric tablets), Xianpai (omeprazole sodium for injection) and Qimaite (tramadol hydrochloride tablets)



# Key Products Overview

## NBP

### Butylphthalide soft capsules and injections

- 1st Class 1 new drug of cardio-cerebrovascular field in China
- Price cut after negotiation improves affordability and accessibility, benefiting more patients
- Significant growth in OTC and E- channels
- New indication - vascular dementia (VaD) under clinical trails

## Mingfule

### Recombinant human TNK tissue-type plasminogen activator for injection

- Mainly used for the thrombolysis treatment in patients with acute myocardial infarction
- Recommended by *Chinese Expert Consensus on Pre-hospital Thrombolysis* and *Guidelines for Rational Use of Drugs for STEMI* and other authoritative guidelines
- BLA accepted by CDE for the treatment of acute ischemic stroke

## Ouyuexin

### Desvenlafaxine succinate extended-release tablets

- The third-generation antidepressant
- First generic drug of its kind that has been approved in China
- Convenient to use without dosage titration
- Patients with liver injuries are able to use recommended dosage, widening its target audience

## Xuanning

### Levamlodipine maleate tablets and dispersible tablets

- Exclusive product in China and the 1st new drug fully approved by the U.S. FDA from China
- Leverage its integrated sales model of direct, cooperative and retail sales to drive a steady growth

## Anfulike

### Amphotericin B cholesteryl sulfate complex for injection

- Exclusive formulation, obtained marketing approval in March 2021; included in the NRDL in December 2021
- Covered approx.1300 hospitals
- Significantly decrease nephrotoxicity and increase dosage





# Key Products Overview

## Jinyouli

### PEG-rhG-CSF

- 1st long-acting white blood cell booster drug in China
- Expanding coverage in major municipal hospitals and county-level markets
- Included in the centralised procurement of the Guangdong Alliance of 11 provinces, enhanced accessibility of the drug will expedite a broader clinical use

## Duomeisu

### Doxorubicin Hydrochloride liposome injection

- No.1 in market share in China
- The first player passed consistency evaluation

## Duoenda

### Mitoxantrone hydrochloride liposome injection

- Exclusive new preparation worldwide with various patent granted in many countries; Obtained marketing approval in January 2022
- Various clinical trails in solid tumors undergoing, blockbuster potential

## Duoenyi

### Irinotecan hydrochloride liposome injection

- In combination with 5-fluorouracil (5-FU) and leucovorin (LV), for the treatment of patients with metastatic pancreatic cancer after disease progression following gemcitabine-based therapy
- Grade I recommendation (Level 1A evidence) in CSCO Guidelines in 2020, which is the therapy with the highest level of recommendation and evidence among current 2L therapies for pancreatic cancer

## Jinlisheng

### Narlumosbart for injection

- The first IgG4 subtype fully human monoclonal antibody against RANKL obtaining marketing approval in the world
- Compared with denosumab, the Product has significant enhancement in uniformity and quality controllability, with favorable efficacy and safety profile
- New indications of tumor bone metastasis and osteoporosis are under development





# Bulk Product Business, Functional Food and Others

## Bulk vitamin C

- Major products: vitamin C, vitamin C - sodium, vitamin C - calcium and granular vitamin C
- Sales of vitamin C products decreased by 23.5% to RMB1,513 million, mainly due to the weakening price of vitamin C products

## Bulk antibiotics

- Major products: 7-ACA (intermediate), cefazolin sodium, penicillin potassium, penicillin sodium, azithromycin and ampicillin sodium
- Sales of antibiotic products increased by 17.9% to RMB1,362 million, driven by the growth in sales volume

## Functional food and others

- Recorded sales of RMB1,652 million for the period, a decrease of 5.6% year-on-year
- There was certain decline in the prices of caffeine products during the period, with sales volume maintaining a stable growth



Part 03

R & D Capability

# R&D Overview



## R&D Centre

- 5 R&D centres located in China & the U.S.
- R&D expenses in YTDQ3 2023: RMB3.68B



## Technology Platform

- 8 national science & technology qualifications
- 2 state key labs
- 8 R&D technology platforms



## Project under Development & IPs

- Approx.300 projects under development (approx. 130 innovative drug projects)
- 1793 IPs applications
- 889 IPs authorised

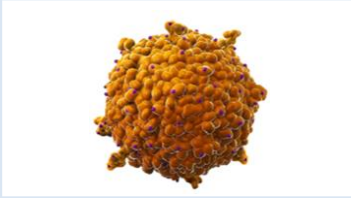


## Science Projects & Government Support

- 87 national projects
- RMB890M government grant support
- 8 national prizes

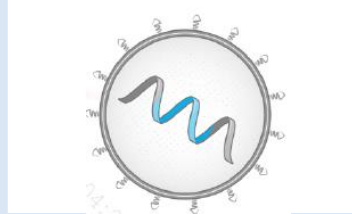
# Innovative R&D Platforms

## Nano-formulation



- Mitoxantrone liposome
- Albumin-bound docetaxel
- Paclitaxel cationic liposome
- Cisplatin micelle

## mRNA vaccine



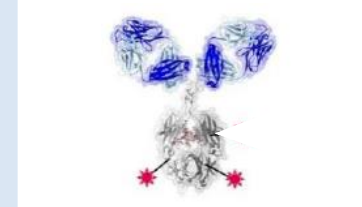
- Covid-19 mRNA vaccine and various preventive and therapeutic vaccines

## siRNA



- PCSK9 siRNA and other chronic disease drugs

## ADC



- HER2 ADC
- CLDN18.2 ADC
- Nectin-4 ADC

## BsAb



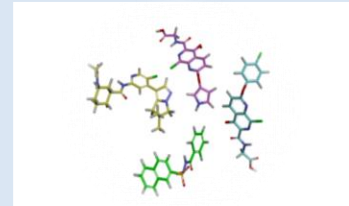
- JMT601 (CD47/CD20)
- JMT106 (GPC3/IFN)
- JMT108 (\*\*/IL15)

## mAb



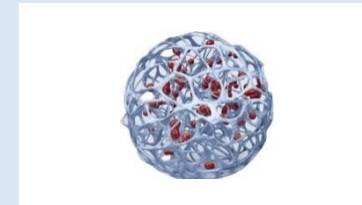
- JMT101 (EGFR)
- JMT103 (RANKL)
- ALMB0168 (CX43 agonist)
- ALMB0166 (CX43 antagonist)

## Small molecule



- Prugliptin (DPP-4)
- Amuxetine
- SKLB1028 (FLT3)
- SYHA1813 (VEGFR/CSF1R)

## Long-acting injection



- Octreotide Long-acting injection
- Paliperidone injection
- Leuprorelin microsphere injection

Note: only shows the representative products on each platform



# Nano-formulation Platform



## Nano-formulation development and manufacturing platform



### Novel drug carrier design

- Invented Albumin nanoemulsion
- Developed new cationic materials and new delivery system

### Novel drug delivery technology

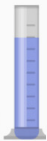
- Invented ammonium salt gradient method of sulfobutylether- $\beta$ -cyclodextrin and 5-sulfosalicylate
- Cholesterol PEGylation modification method and post single layer PEGylation

### Novel preparation method

- Invented single-phase solution lyophilization technology, O/W type Emulsification technology, crossflow mixing technology, continuous flow reaction technology, etc.
- Invented bottom up nanocrystal preparation technology, enabling continuous production

### Novel Industrialized production technology

- Invented continuous flow technology, employing linear amplifier, overcome barriers to industrialized production
- Illustrated that all nano drugs are able to be prepared by permutation and combination of four key processes



## Nano-formulation assessment system



### Particle characterisation method

- Developed nano-formulation assessment technology for liposome, albumin nanoparticles, emulsion, micelles, etc.

### PK determination method

- Established multiple PK determination methods for nano drugs including liposome, albumin nanoparticle, micelles etc.

### Mature animal screening models

- Established multiple animal disease model for efficacy assessment
- Established animal models for evaluating ABC phenomenon, CARPA response and HFS, enabling quick screening

### Particle characterisation technique guided in vivo PK, PD, TOX evaluation

- Illustrated influence of drug release rate of liposome, mode of administration and animal model on ABC phenomenon
- Detailed study of CARPA and HFS laid the foundations for rational design of nanoparticles



# mRNA Vaccine platform

## 1 Advantages of antigen design

- Mutation prediction platform
- The combination of bioinformatics and structural biology to obtain effective epitopes
- Superior immunogenicity from site-specific mutation of antigen

## 2 mRNA vaccine design

- Base modification, UTR screening, codon optimization and structural elements inclusion
- Structural energy optimization to enhance antigen expression

## 3 Manufacturing capabilities

- Manufacturing capabilities of CSPC
- Top tier LNP R&D platform
- Manufacturing capacity reaches to 1.5 billion doses per year

## 4 Excellent safety profile

- No observed SAE in clinical trials
- Excipients proven to be low toxicity by launched products
- Base modification mitigates innate immunogenicity
- Formulation ensures long-term stability

## 5 Streamlined CMC Strategy

- One-step API manufacturing process
- API purification process: up to 99% purity
- Highly scalable LNP manufacturing process
- Short turnaround time: ~2 days

## 6 Highly expandable platform

- Each individual component can be continuously upgraded
- Expansion from linear mRNA to circRNA; from liver-target delivery to extrahepatic delivery
- From preventive to therapeutic application; from vaccine to CGT



# siRNA Platform

## 1 HTS screening platform

- Rational sequence design based on bioinformatics and experienced scientists
- Comprehensive in vitro and in vivo PK/PD characterization

## 2 CMC platform

- Build strong oligonucleotides CMC platform based on QbD strategy
- Develop liquid synthesis technology

## 3 Manufacturing capabilities

- Manufacturing capabilities of CSPC
- Two GMP-compliant production lines have been built

## 4 Excellent safety profile

- Superior safety profile in pre-clinical study
- Build off-target risk assessment platform
- Chemical modification to mitigate immunogenicity
- Long-term stability

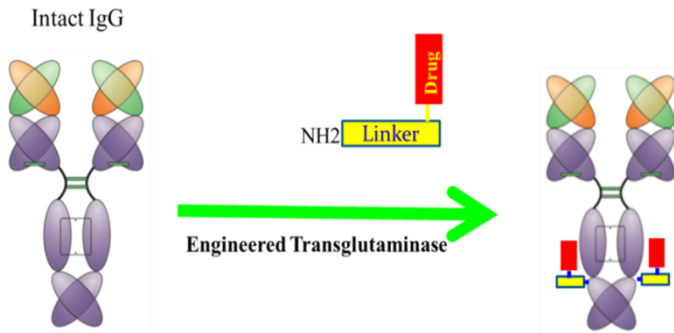
## 5 Nucleotides building blocks

- Develop novel building blocks
- Develop Galnac molecule with in-house IP
- Scalable building blocks manufacturing technology
- Manufacturing capability of key building blocks

## 6 Highly expandable platform

- Each individual component can be continuously upgraded
- Integrated manufacturing capabilities from building blocks, API and drug product

# ADC Platform



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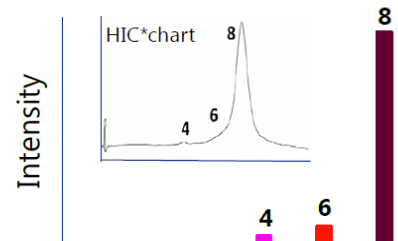
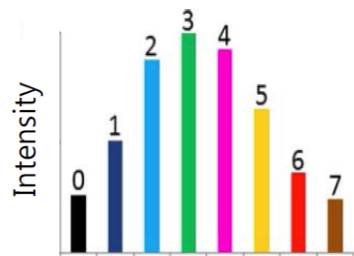
(12)发明专利申请

(10)申请公布号 CN 106604741 A  
(43)申请公布日 2017.04.26

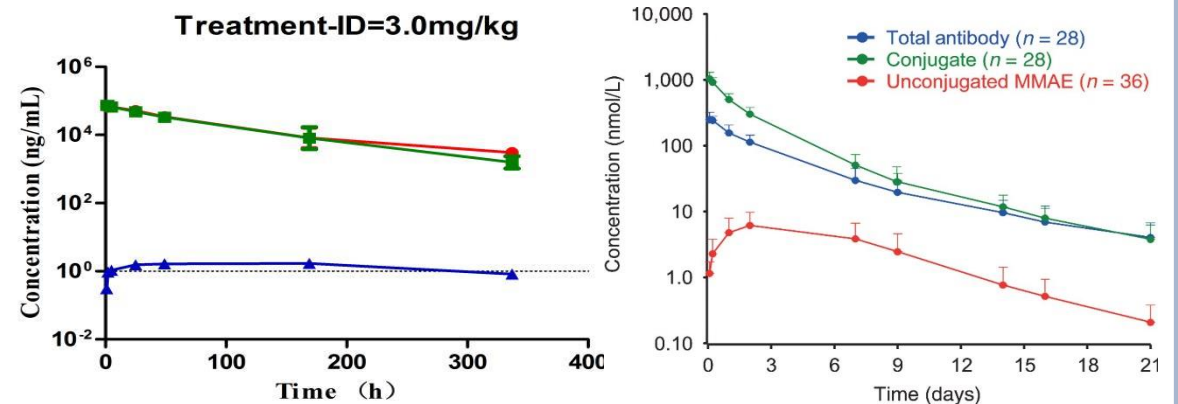
ADC Design	Characteristics	Advantages
Conjugation Mode	Engineering TGase catalysis	The specific conjugation on the homogeneous glutamine residue in the Fc region catalyzed by engineering modified Tgase can produce highly purified ADC molecule with stable DAR ratio, excellent PK character and wide therapeutic index
Conjugation Spot	Conserved Q295 residue on the heavy chain of the antibody	
Form of Antibody	Intact homogeneous IgG	Avoid introducing mutation or deglycosylation that may lead to the increase of immunogenicity

## Fixed-point conjugation produces highly homogeneous DAR2 product

	T-DM1	DP303c
<b>Antibody</b>	Trastuzumab	Anti-HER2 Ab
<b>Payload</b>	Tubulin inhibitor (DM1)	Tubulin inhibitor (MMAE)
<b>DAR</b>	3.5	2



## Extremely low proportion of free toxins in human plasma





# Bispecific Antibody Platform

## Antibody-interferon fusion protein platform

### Structural advantages

- **Synergistic** binding effect when targeting the same cell
- **Smaller** molecular weight (smaller than that of conventional antibodies)

### Safer impurities

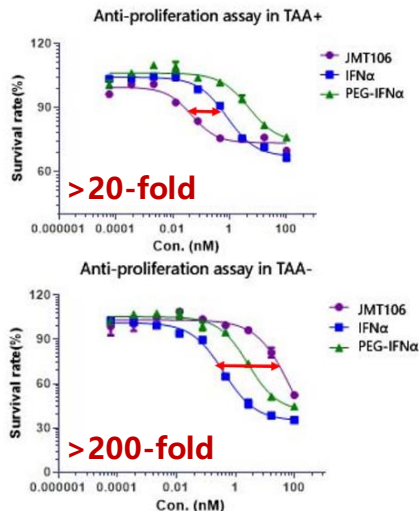
- The activity of interferon-containing impurities is **far lower** than that of conventional bispecific antibodies
- No serious safety risk of interferon-containing impurities from the production process

### Stronger target selectivity

- Limited binding activity to receptors on TAA- cells, demonstrating a **better therapeutic window**
- The optimization of interferon mutation to further improve **target selectivity**

### More stable product

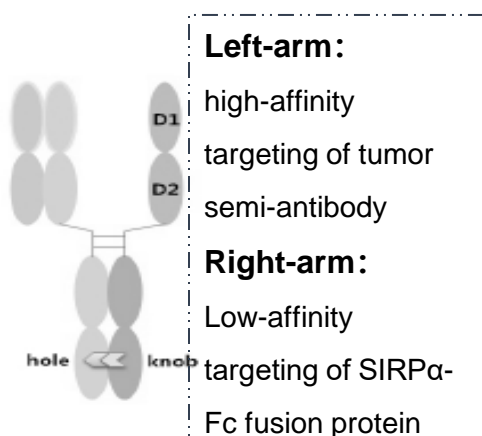
- **Lower difficulty** in pharmaceutical development
- Significantly reduce the interferon breakage during the production process and in the body, resulting in **high yield** and **low risk**



- ✓ The proliferation inhibitory activity in TAA+ cells is more than 20-fold higher than that of IFN $\alpha$
- ✓ The proliferation inhibitory activity in TAA- cells is more than 200-fold lower than that of IFN $\alpha$
- ✓ ADCC and tumor immunomodulatory effects
- ✓ In vivo anti-tumor efficacy in a dose-dependent manner
- ✓ in vivo anti-tumor effect is superior to TAA mAb, PEG-IFN $\alpha$  monotherapy and the combination therapy
- ✓ Cytokine release from human PBMCs is within a safe range
- ✓ No significant proliferative stimulation or inhibition on human PBMCs
- ✓ Good Serum stability, accelerated stability, and freeze-thaw stability

- High expandability
- stronger targeting ability
- Better safety profile
- Lower molecular weight
- More stable
- Simple production procedure
- Lower production cost

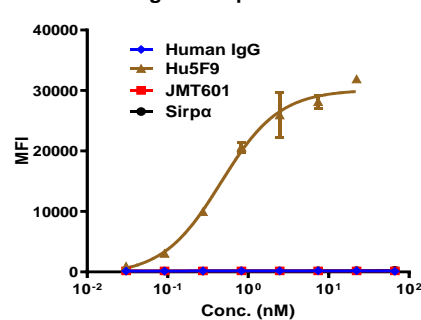
## CD47 targeting bifunctional fusion protein platform



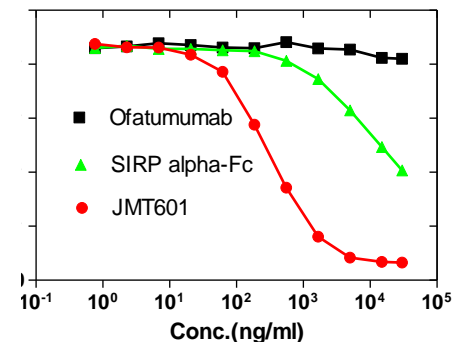
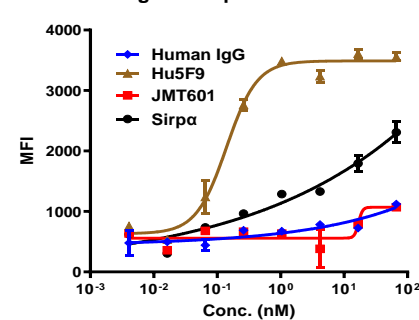
- ✓ Does not bind to TAA-/CD47+ cells, including erythrocyte, platelet etc.

- ✓ TAA binds to CD47 with ADE


FACS Binding of Samples on Human RBCs



FACS Binding of Samples on Human Platelets



- High expandability: various types of tumor targeting antibody could be used as the left-arm
- Higher safety window.
- Lower molecular weight, better suits solid tumors
- Simple production process
- Possession of intellectual property right



Part 04

# Pipeline

# Candidates under Clinical Trial Stage

(26)

PhI

NBL-012 IL23-P19	NBL-015 CLDN18.2 mAb	NBL-020 TNFR2
NBL-028 CLDN6-CD137	SYS6002 Nectin-4 ADC	SYS6010 EGFR ADC
SYS6011	JMT203 GFRAL	Secukinumab
SYHA1801 BRD4	SYHA1803 Pan-FGFR	SYHA1805 FXRs
SYHA1807 LSD1	SYHA1811 BTK	SYHA1815 FGFR/RET
SYHX1903 CDK9	SYHX2001 PRMT5	SYHX2005 FGFR4
SYHX2009 NTRK/ROS1	SYH2038 SOS1	SYH2043 CDK2/4/6
SYH2045 PRMT5	SYH2051 ATM	SYH2053 PCSK9 siRNA
SYHA1908	Cisplatin micelle	

(15)

PhII (POC)

CLDN18.2 ADC	CM326 TSLP
ALMB0166 Cx43i mAb	ALMB0168 Cx43s mAb
JMT601 CD20/CD47	SYHX1901 JAK/SYK
Simmitinib TKI	SYHA1813 VEGFR/CSF1R
Amuxetine 5-HT/NE	SYHA1402 ARi
NBP Capsule (US PhII)	Paclitaxel cationic liposome
Albumin-bound Sirolimus	Octreotide long- acting injection
Alprostadi liposome	

(17)

PhIII / III pivotal trial

JMT101 EGFR mAb	CM310 IL4R
KN026 Her2 BsAb	TG103 Fc-GLP1
Pertuzumab	Ulsinumab
DP303C HER2 ADC	NBP Capsule (VaD) ☆
SKLB1028 FLT3-TKI	SYH2055 3CL
SYHA121-28 RET-TKI	Semaglutide
Albumin-bound Paclitaxel II	Albumin-bound Docetaxel
Clevidipine injectable emulsion	Meloxicam nanocrystal injection
Daunorubicin cytarabine liposome	

(7)

NDA

rhTNK-tPA < 4.5h AIS ☆
SYSA1802 PD-1
Omalizumab biosimilar
Batoclimab
DBPR108 DDP4
Amphotericin B Liposome
Bivalent covid mRNA vaccine

☆ Additional indications

large molecule

small molecule

new preparation

mRNA vaccine

# Pipeline – Large Molecule

Over 40 new biologic drugs under development: 4 filed BLA, 21 under clinical trial stage(7 under pivotal trial stage) and over 20 under pre-clinical stage

TA	Major Candidates	Target	Indication (s)	Pre-clinical	Phase I	Phase II	Ph II / III pivotal trial	NDA
Oncology	JMT103	RANKL	Giant-cell tumor of bone, osteoporosis, bone metastasis	[Progress bar]				Marketed(GCTB)
	JMT101	EGFR	Multiple solid tumors	[Progress bar]				
	SYSA1802 (SG001)	PD-1	Tumors	[Progress bar]				★ BLA accepted
	JMT601*	CD47/CD20	NHL& multiple hematologic neoplasms	[Progress bar]				
	DP303c	HER2 ADC	Breast, gastric or ovarian cancer	[Progress bar]				
	ALMB0168	CX43 agonist	Bone cancer, cancer bone metastasis	[Progress bar]				
	SYSA1801*	Claudin 18.2 ADC	Gastric cancer, pancreatic cancer	[Progress bar]				
	NBL-015*	Claudin 18.2 mAb	Advanced solid tumor	[Progress bar]				
	NBL-020*	TNFR2	Advanced solid tumor	[Progress bar]				
	SYS6002*	Nectin-4 ADC	Tumors	[Progress bar]				
	SYS6010*	EGFR ADC	Tumors	[Progress bar]				
	JMT203	GFRAL	Cancer cachexia	[Progress bar]				
	KN026	HER2 BsAb	Gastric cancer, breast cancer	[Progress bar]				
	Pertuzumab biosimilar	HER2	Breast cancer	[Progress bar]				
	SYS6011	Undisclosed	Solid tumor	[Progress bar]				
	NBL-028	CLDN6-CD137	Advanced tumor	[Progress bar]				

\*The product was developed both in PRC and the US



# Pipeline – Large Molecule

TA	Major Candidates	Target	Indication (s)	Pre-clinical	Phase I	Phase II	Ph II / III pivotal trial	NDA		
Cardio-vascular	Mingfule	rhTNK-tPA	Acute ischemic stroke (AIS)	█				★		
Psychiatry & Neurology	ALMB0166	CX43 antagonist	Spinal cord injury, AIS	█					BLA accepted	
Digestion & Metabolism	TG103	GLP-1	Obesity, Diabetes, NASH, AD	█						
Immune	Omalizumab biosimilar	IgE	Allergic asthma, CIU	█						
	CM310	IL-4Rα	Asthma, COPD	█						
	CM326	TSLP	Asthma, COPD	█						
	NBL-012*	IL-23p19	Psoriasis, HS, IBD	█						
	Ulsinumab	IL-12/IL-23	Moderate to severe plaque psoriasis	█						
	Batoclimab	FcRn	MG	█						
	Secukinumab	IL-17A	psoriasis	█				★	BLA accepted	

\*The product was developed in both China and the US

# Pipeline - Small Molecule

Over 40 small molecule new drugs under development: 1 filed NDA, 25 under clinical trial stage (5 under Phase III / pivotal trial stage) and over 20 under pre-clinical stage

TA	Major Candidates	Target	Indication (s)	Pre-clinical	Phase I	Phase II	Ph II / III pivotal trial	NDA	
<b>Oncology</b>	SKLB1028	FLT3, Abl, Lyn, EGFR	Acute myeloid leukemia	[Progress bar]					
	SYHA121-28	EGFR, VEGFR, FGFR, RET	Lung cancer	[Progress bar]					
	Simmitinib	FGFR, KDR	Gastric cancer, cholangiocarcinoma, SQCC	[Progress bar]					
	SYHA1801	BRD4	Advanced solid tumor	[Progress bar]					
	SYHA1803	Pan-FGFR	Intrahepatic cholangiocarcinoma, urothelial carcinoma	[Progress bar]					
	SYHA1807	LSD1	Lung cancer	[Progress bar]					
	SYHA1815	RET, FGFR	Advanced solid tumor	[Progress bar]					
	SYHA1813	VEGFR/CSF1R	Relapsed or advanced solid tumour	[Progress bar]					
	SYHA1811	BTK	Leukemia, Lymphoma	[Progress bar]					
	SYHX1903	CDK9	Hematological malignancies, solid tumors	[Progress bar]					
	SYHX2001	PRMT5	Advanced solid tumor, r/r hematologic tumors	[Progress bar]					
	SYHX2005	FGFR4	Advanced solid tumor	[Progress bar]					
	SYHX2009	NTRK, ROS1	Solid tumor	[Progress bar]					
	SYH2043	CDK2/4/6	Breast cancer	[Progress bar]					
	SYH2045	PRMT5	Advanced malignant tumors	[Progress bar]					
	SYH2051	ATM	Solid tumor	[Progress bar]					
	SYH2038	SOS1	Advanced solid tumor	[Progress bar]					

# Pipeline - Small Molecule

TA	Major Candidates	Target	Indication (s)	Pre-clinical	Phase I	Phase II	Ph II / III pivotal trial	NDA
<b>Cardio-vascular</b>	SYH2053	PCSK9 siRNA	Primary hypercholesterolaemia or mixed dyslipidaemia	→				
<b>Digestion &amp; Metabolism</b>	DBPR108	DPP-4	Diabetes	→				★ NDA accepted
	SYHA1402	ARI	Diabetic neuropathy	→				
	SYHA1805	FXR Agonist	NASH	→				
	Semaglutide	GLP-1	Type2 diabetes	→				
<b>Psychiatry &amp; Neurology</b>	NBP soft capsule*		VaD, Ischemic stroke(US)	→				
	Amuxetine hydrochloride enteric tablets	5-HT, SNDRI	Antidepressant	→				
<b>Immune</b>	SYHX1901	Syk-Jak	RA, SLE, COVID-19	→				
<b>Anti-infective</b>	SYH2055	3CL	COVID-19	→				

\*The product was developed in both China and the U.S.

# Pipeline - New Preparation

Over 30 new preparations under development: 2 applied marketing approval, 11 under clinical trial, and over 20 under pre-clinical stage

TA	Major Candidates	Indication(s)	Pre-clinical	Phase I	Phase II	Phase III / Pivotal Clinical Trial	NDA	
<b>Oncology</b>	Mitoxantrone hydrochloride liposome injection *	Multiple hematologic neoplasms & solid tumors	[Progress bar]				Marketed (PTCL)	[Arrow]
	Irinotecan liposome *	Pancreatic cancer	[Progress bar]				Marketed (PAAD)	[Arrow]
	Daunorubicin cytarabine liposome	Leukemia	[Progress bar]					
	Paclitaxel nanoparticles (fast dissolving)	Multiple solid tumors	[Progress bar]					
	Paclitaxel cationic liposome	Advanced solid tumors	[Progress bar]					
	Docetaxel for injection (albumin-bound) *	Multiple solid tumors	[Progress bar]					
	Sirolimus for injection (albumin-bound)	Multiple hematologic cancers & solid tumors	[Progress bar]					
	SYHA1908 for injection (class 1 new drug+nano drug)	Solid tumors	[Progress bar]					NDA accepted
	Cisplatin micelle	Multiple solid tumors	[Progress bar]					
<b>Endocrinology</b>	Octreotide long-acting injection	Acromegaly	[Progress bar]					
<b>Anti-infective</b>	Amphotericin B liposome *	Invasive fungal infection	[Progress bar]					★ NDA accepted
<b>Cardio-cerebrovascular</b>	Alprostadil liposome	Vasodilation	[Progress bar]					
	Clevidipine injectable emulsion	Hypertension	[Progress bar]					
<b>Immune</b>	Meloxicam nanocrystal injection	Moderate-to-severe pain	[Progress bar]					
<b>Vaccine</b>	COVID-19 mRNA vaccine	COVID-19	[Progress bar]					EUA [Arrow]
	Bivalent COVID-19 mRNA vaccine	COVID-19	[Progress bar]					★

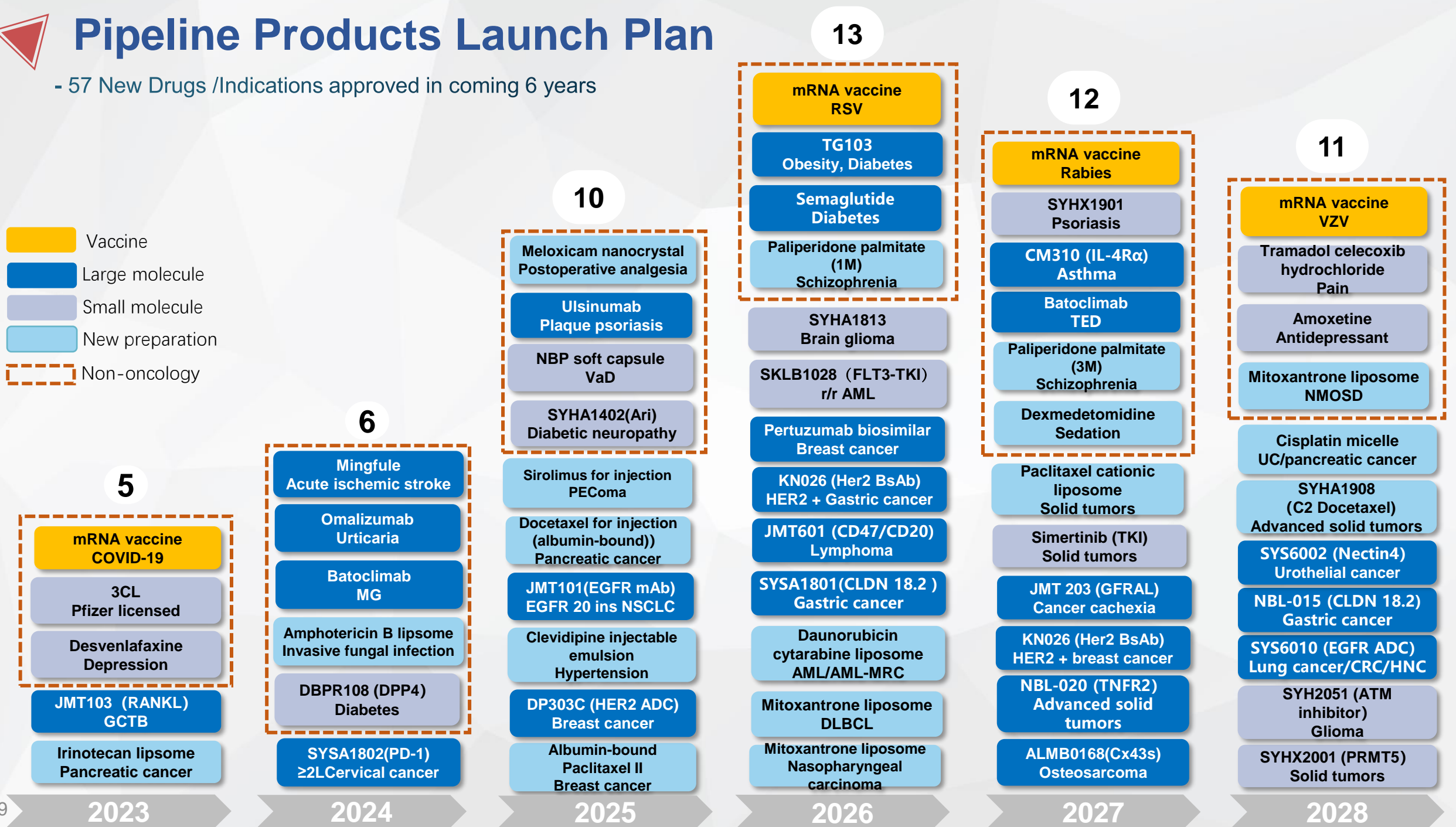
\*The product was developed in both China and the U.S.



# Pipeline Products Launch Plan

- 57 New Drugs /Indications approved in coming 6 years

- Vaccine
- Large molecule
- Small molecule
- New preparation
- Non-oncology






# Common Generics Launch Plan

**14 applications have been filed for marketing approvals, expecting to receive approval in 2024-2025;  
Over 20 candidates under pharmaceutical research, expecting to receive approval in 2026-2027**

No.	Product	Therapeutic Area	Expected to be launched
1	Desvenlafaxine succinate extended-Release tablets (25mg)	Nervous system	2024
2	Dapagliflozin tablets	Digestion & Metabolism	2024
3	Rabeprazole sodium enteric-coated tablets	Digestion & Metabolism	2024
4	Olaparib tablets	Oncology	2024
5	Palbociclib tablets	Oncology	2024
6	Lenalidomide capsules (5mg, 10mg)	Oncology	2024
7	Peramivir injection	Anti-infective	2024
8	Aprepitant injection	Others	2024
9	Dexrazoxane for injection	Others	2024
10	Roxadustat capsules	Others	2024
11	Regorafenib tablets	Oncology	2025
12	Ilaprazole enteric-coated tablets	Digestion & Metabolism	2025
13	Tedizolid phosphate	Anti-infective	2025
14	Oseltamivir phosphate for oral suspension	Anti-infective	2025

# IND Approvals Obtained as of November 30

IND approval for the 1st indication (15+2)	
SYH2045 (solid tumors)	Meloxicam nanocrystal injection (moderate-to-severe pain for adults)
Clevidipine injectable emulsion (hypertension)	Octreotide long-acting injection (acromegaly)
NBL-020 (advanced solid tumors)	SYS6010 (advanced solid tumors)
SYH2051 (solid tumors)	JMT203 (tumor cachexia)
Semaglutide injection (Type 2 diabetes)	NBL-028 (Advanced tumors)
SYS6006.32 (Bivalent COVID-19 mRNA vaccine)	Secukinumab injection (Psoriasis)
SYS6011 (Solid tumors)	SYH2038 (Advanced solid tumor)
SYH2053 (Primary hypercholesterolaemia or mixed dyslipidaemia in adults)	CPO301 (advanced solid tumors) (US& Canada)
IND approval for additional indications (13)	
KN026 for injection –in combination with docetaxel (albumin-bound) for the treatment of first-line HER2 positive recurrent and metastatic breast cancer	Docetaxel for injection (albumin-bound)-in combination with SG001 (PD-1) for perioperative treatment of NSCLC
Docetaxel for injection (albumin-bound)-in combination with SG001 (PD-1) and cisplatin with concomitant radiotherapy for the treatment of locally advanced esophageal cancer	Docetaxel for injection (albumin-bound)-in combination with SG001 (PD-1) and cisplatin with concomitant radiotherapy for the treatment of locally advanced unresectable NSCLC
Docetaxel for injection (albumin-bound)-neoadjuvant treatment for luminal breast cancer	SYH2055 tablets-prevention of COVID-19
CM326-COPD	CM310 (COPD)
Paclitaxel cationic liposome for injection- Arterial perfusion therapy in patients with advanced solid tumors who failed standard treatment	Simmitinib-in combination with SG001 (PD-1) for the treatment of solid tumors
SG001 (PD-1) -in combination with chemotherapy for first-line cervical cancer	JMT101-in combination with SG001 and Irinotecan for treatment of colorectal cancer
ALMB-0166 (Acute ischemic stroke)	



Part 05  
**BD&ESG**



# Strategic Layout and Roadmap in Business Development

Focusing on strategic areas, deepening BD strategies, and establishing an international ecosystem in business development

**Product Positioning:** Aligning closely with clinical needs, emphasizing clinical benefits, grasping international cutting-edge technology and product trends, strengthening the leading areas of the Group, focusing on key clinical stage products in the mid to late phases, and exploring the untouched fields of nephrology, ophthalmology and orthopedics

**Technology Platforms:** Actively exploring collaboration and development of early-stage products with AI pharmaceuticals, nucleic acid drug antigen screening platforms, gene therapy technologies, and novel vaccine development platforms

**Internationalization:** Pursuing a dual strategy of both licensing-in and licensing-out, expanding international projects with leading multinational pharmaceutical companies and the Belt-and-Road initiatives, reinforcing strategic relationships with investment funds having overseas resources, and advancing collaboration in global projects

**Ecosystem Construction:** Leveraging the advantages of the Group's clinical development, registration and commercialization, through "Pharma+Biotech" model, engaging in extensive and in-depth collaboration with Biotech companies or research institutions that possess innovative advantages in specific areas or technology platforms, meanwhile considering practical and feasible merger and acquisition, to continue supporting the Group's external innovation

## BD projects completed in Q1-Q3 of 2023



### ■ License-out:

- Granted Corbus Pharmaceuticals the development and commercialization rights for SYS6002 (Nectin-4ADC, Phase 1) in the United States, European Union countries, the United Kingdom, Canada, Australia, Iceland, Liechtenstein, Norway, and Switzerland.

### ■ License-in:

- Obtained Pfizer's exclusive authorization to locally market the oral antiviral COVID-19 treatment medication, Namatavir Tablets/Litoconavir Tablets, in China



# Key Therapeutic Area Strategy for 2023 in Business Development

## Reinforce Leading Position in Established Areas

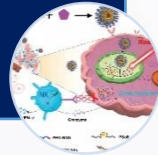
- Comprehensive Management of Stroke Disease, with a Focus on the Strategic Positioning and Collaboration of Innovative Drug Projects in Vascular Recanalization, Neuroprotection, and Anti-Inflammation that Synergize with the Company's Existing Resources
- Attention to Late-stage Clinical or Newly Approved Drugs in the Alzheimer's Disease (AD) Field, as well as Emerging Novel Targeted Therapeutics.

### Neurology Field



- Strengthen differentiation in hematologic malignancies, lung cancer, and breast cancer, focusing on targeted therapies, new immunotherapies, and combination treatments.
- Explore innovative drugs in areas such as digestive tract tumors, gynecological tumors, and urological tumors.

### Oncology Field



- Focus on challenging areas like refractory hypertension, hyperlipidemia, and heart failure. Pay attention to long-acting, oral diabetes/weight reduction innovative products.
- Address thyroid diseases and innovative treatments related to gout.

### Cardiovascular & Endocrinology Field



- Emphasize areas like idiopathic pulmonary fibrosis (IPF), COPD/asthma, and cough, exploring innovative targets, drug-device combinations, and drug delivery systems.
- Focus on high-end antibiotics effective against clinically resistant bacteria.
- Address conditions such as atopic dermatitis, systemic lupus erythematosus, and inflammatory bowel disease (IBD).

### Respiratory, Autoimmune & Anti-Infective Field



## Explore Novel Therapeutic Areas and Technology Platforms

- Address primary and secondary kidney diseases like IgA nephropathy and diabetic nephropathy.
- Focus on complications of kidney diseases like renal anemia, hyperphosphatemic kidney disease, hypertension, and kidney-related itching.

### Nephrology Field



- Concentrate on well-established companies with mature late-stage ophthalmology pipelines.
- Focus on products for treating retinal diseases like AMD using new targets, long-acting formulations, nanomedicines, and gene therapies, with a special focus on geographic atrophy indications.

### Ophthalmology Field



- Focus on therapeutic nuclear medicine, breaking through new targets, new indications, and new isotopes while avoiding homogenization.
- Continuously research upstream isotope supply issues and address key problems related to downstream nuclear medicine construction and national regulatory dynamics.

### Nuclear Medicine Field



- Expand into major population-based psychiatric disorders like depression and schizophrenia, focusing on the layout and collaboration of novel targeted drugs with improved efficacy, safety, and compliance.
- Emphasize fast-acting nasal spray formulations.

### Psychiatry Field



- Chronic Pain: Focus on innovative drug projects that provide better pain relief, higher safety, and non-addictive properties.
- Acute Pain: Concentrate on innovative projects that extend postoperative pain relief duration while maintaining higher safety.

### Pain Management Field

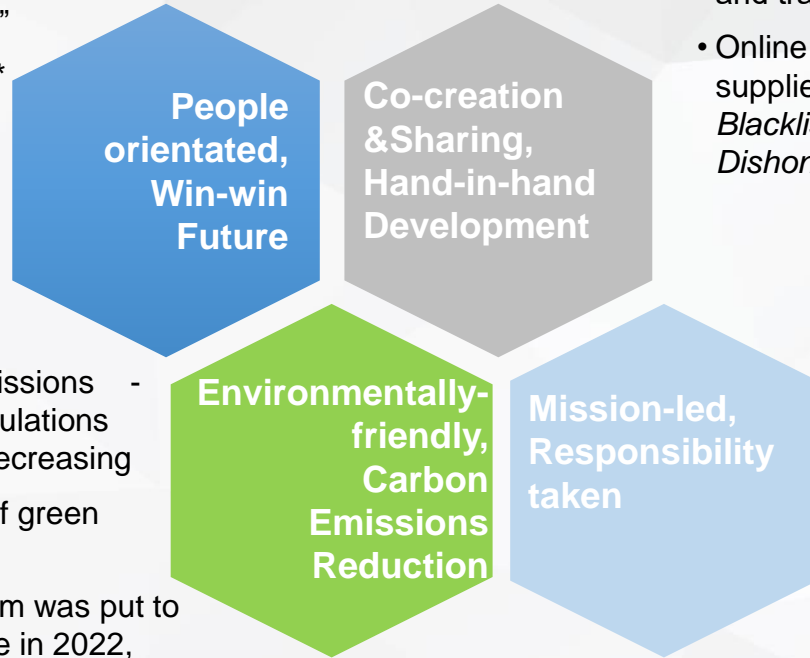


- Focus on unmet clinical needs in orthopedics, from completely innovative products to products that improve patient accessibility, and tap opportunities in orthopedics
- Focus on spine surgery-related drugs, osteoporosis iterations

### Orthopedics Field



# Aim to Become an ESG Leader in Pharmaceutical Industry



- Awarded “AAA Enterprise with Harmonious Labour Relations in Hebei Province” and “National Advanced Enterprise in Employment”
- Achieved “Five Zeros and One Low”\*
- The major shareholder of the Group granted 220M conditional shares to over 300 employees in 2022
- Improving board diversity continuously

- Adhere to the procurement principle of “fair, impartial, green and transparent”
- Online bidding and procurement; supplier integrity commitment; *Blacklist Management System for Dishonesty*

- Structural reduction of carbon emissions - the ratio of innovative drugs /formulations increasing and the ratio of APIs decreasing
- Invested RMB200m in upgrade of green factories in 2022
- A centralised process water system was put to use in No. 1 Manufacturing Centre in 2022, effectively reducing the use of water resources
- Ouyi and NBP (our subsidiaries) are recognized as “Green Factories” by the MIIT

- During the outbreak of Covid 19 in China, produced urgently needed drugs at full capacity to alleviate the market shortage; received gratitude from the MIIT
- CSPC Education Assistant Fund- helped 367 college students in 2022
- Medical care program for poor children- helped 63 children in 2022
- Cancer and critical illness patients assistant program- assisted 50 patients in 2022



## Environmental Protection Plan 2025

- ✓ Reduce greenhouse gas emissions per unit of revenue by 50%
- ✓ Reduce the emission of non-hazardous waste (general solid waste) per unit of revenue by 70%
- ✓ Reduce the discharge of hazardous waste per unit of revenue by 25%
- ✓ Reduce the comprehensive energy consumption by 47%
- ✓ Reduce the water consumption per unit of revenue by 27%



\*The emission reduction target is based on the emission in 2017

\*Five Zeros and One Low- zero cases of death, serious injuries, multiple injuries, occupational disease and poisoning incident as well as low incident rate of minor injuries



WeChat of CSPC IR Team:



**Thanks!**