

2020 Annual Results Corporate Presentation

March 24, 2021



TOT BIOPHARM International Company Limited (於香港註冊成立的有限公司)

股份代號: 1875

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Speakers





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CEO Chief Scientific Officer Executive Director



Mr. Wu, Chih-Yuan

Senior Director of Strategic and Business Development

Vision

Improve the quality of life of cancer patients worldwide with innovative technology

Value

Make the appropriate anti-cancer drugs accessible to appropriate cancer patients at appropriate treatment stage. Provide quality anti-cancer drugs at reasonable prices. Aim to improve cancer patients' physical, psychological and spiritual health.

Mission

Build a leading brand name of oncology treatments trusted by patients and their families as well as medical professionals













Financial Review



Q&A

Business Overview and Review

Product Pipeline and Clinical Trial

Strategic Planning and Forecast

Business Outlook







The verified open platform business model, strong new drug development capability, and mature commercialization platform



Our Three Technology Platforms





Therapeutic Monoclonal Antibody and ADC Technology Platform

- Covering screening of cell clone, cell banks construction, CMC developments, pilot production and scale-up production, purification and filling and packaging
- The first-of-its-kind innovative PB-Hybrid technology has delivered multiple batches of production of multiple products
- Integrating R&D and capability of antibodies and ADC production to realize high-quality commercial production



Gene Engineering Based Therapeutics Technology Platform

- R&D and manufacturing platform for the tumor-targeted recombinant oncolytic virus vector system
- Integrates anti-tumor immunotherapy and gene therapy



Innovative Drug Delivery Technology Platform

- Builds integrated platform for the development and large-scale production of high-potency drug injections
- Commercialization facilities for nanoliposome drugs applicable to different technologies are in place
- Adopts co-platform production design of sterile lyophilization and sterile filling to meet GMP production requirements on OEB4/5 active grade lyophilized powder injection/liquid injection

Highly Competitive Commercial Production Capacity



The international-standard commercialized production platform of mAb drugs + ADC drugs + chemical drugs



mAb drugs production workshop

The commercialized production workshop, located in the No. 2 plant which was completed in 2018, is equipped with drug substance and formulation production equipment, with a designed capacity of 16,000L Located in No. 1 plant, the monoclonal antibody pilot plant is used to produce clinical drugs with a capacity of 500L



ADC drugs production workshop

- The ADC drug substance production workshop was completed in September 2020
- Successfully produced multiple batches of TAA013 clinical drugs
- ADC drug commercialized production equipment and conditions



Chemical drugs production workshop

The No. 1 campus completed in 2012 has:

- Anti-cancer drug oral and formulation workshop
- . Commercialization facilities for nanoliposome drugs

Advantageous Production Capacity of mAb and ADC Drugs



Accelerate expanding commercialized production capacity to create diversified and stable cash flow



Strategic Plan and Positioning





Become the leading ADC player in China

- Leading domestic, world-class ADC industry chain platform
- Strengthen and enrich the pipeline of innovative products
- Actively promote ADC project cooperation and development
- International strategic cooperation



Competitive CDMO/CMO business

- Open the advanced technology platform, employ the biotechnology agglomeration effects in Suzhou, seize market opportunities, and create new growth of revenue
- Possess production flexibility and diversified service capabilities, to maximize the benefits of the customers' input and output
- Complete life cycle of drug management solutions and services

Main Achievements from 2020 to March 2021

- The development of innovative drugs entered into a new stage; the clinical progress of core products TAB008 and TAA013 were exceed expectation
- Layout of commercial production leads the industry; CDMO/ CMO business continues to expand

Milestones of product in clinical phases

- **TAB008**: submitted the drug launch application, completed the on-site verification, and released the results of phase III clinical research
- T0Z309: completed the on-site verification
- **TAA013**: started phase III clinical trial and has been recruiting successfully
- TAB014: Phase III clinical trial is approved by FDA

Innovative drug development

- Developed innovative targeted biological drugs in cooperation with Harbour BioMed
- Independently developed innovative targeted ADC drugs

Layout of Commercial production

- Production workshop for ADC commercial drug substance was put into operation
- Manufactured multiple batches of ADC drugs for clinical use
- The production base of mAb drugs and chemical drugs have passed the on-site verification of GMP compliance

CDMO/CMO business

- Reached long term cooperation agreements with several innovative drug and biological companies
- A number of CDMO/CMO projects for mAb drugs, ADC drugs and small molecule drugs were in progress, including the cooperation with **Kintor** in the global clinical supplies manufacture for COVID-19

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TOT BIOPHARM





Product Pipeline and Clinical Trial

Continuous Improvement of Product Pipeline Innovation



Types	Drug Candidates	Indication(s)	Pre- Clinical	Phase I	Phase II	Phase III	NDA ⁽¹⁾
400	TAA013(anti-HER2)	HER2-positive breast cancer					
ADC	TAE020(new target) Acute myeloid leukemia, AML						
	TAB008 ⁽²⁾ (anti-VEGF)	nsNSCLC					
Monoclonal Antibody product/Recombin ant protein	TAB014 ⁽³⁾ (anti-VEGF)	Wet age-related macular degeneration (wAMD)	IND authorized	by FDA, direct	ly enter phase		
	TAY018(anti-CD47)	Non-Hodgkin's lymphoma, myelodysplastic syndrome, acute myelogenous leukemia, solid tumors					
	TAC020(new target)	Solid tumors					
	TEP118(modified version of hyaluronidase)	Biliary cancer, gallbladder tumors, metastatic pancreatic cancer, NSCLC, gastric cancer					
	TOZ309 (temozolomide)	Malignant brain tumor				ANDA ⁽⁴	
Chemical drugs	TOM312(megestrol acetate)	Cancer- and HIV-associated cachexia		В	E	Taiwan AND	
	TIC318 (carboplatin)	Epithelial-derived ovarian cancer, small-cell lung cancer, head and neck squamous cell carcinoma, testicular tumors, malignant lymphoma, cervical cancer, bladder cancer, and NSCLC					
Oncolytic virus product	TVP211(genetically modified vaccinia virus)	Solid tumors					
Liposome chemical drug	TID214(liposomal docetaxel)	Solid tumors					
	TIO217(liposomal oxaliplatin)	Gastrointestinal tumors					

Note:(1) NDA is applicable to the application of new drugs and Category 5.1 imported drugs (2) TAB008 is a bevacizumab biosimilar. Bevacizumab has been approved for the treatment of nsNSCLC, mCRC and glioblastoma (GBM) in China. Additional indications of bevacizumab approved in the United States or the EU include renal cell carcinoma, cervical cancer, ovarian cancer, breast cancer, Fallopian tube cancer, peritoneal cancer and Hepatocellular Carcinoma 14 (3) TAB014 is an ophthalmic formulation of bevacizumab and we licensed out the right of commercialization in China, Hong Kong and Macau

(4)ANDA is applicable to the application of generic drugs or Category 5.2 imported drugs

On-site Verification of Key Product-TAB008 was completed Before Launch





PB-Hybrid Technology Flow Chart



Open up sales power to acquire market share

- Intended to use Pusintin® as the brand name
- Completed pre-approval registration inspection and GMP compliance inspection
- The first biopharmaceuticals to be approved



Stable production supply and cost-effectiveness

- Apply PB-Hybrid Technology for commercialized production to expand capacity from 25L to 2,000L
- Simplify the process and reduce production risks
- Shorten the production cycle and greatly enhance production capacity
- Reduce production costs to improve cost advantages

TAB008 Clinical Progress-Phase III Clinical Trial Results Release 1/2



Phase III clinical study on chemotherapy treatment of advanced or recurrent non-squamous cell and non-small cell lung cancer by TAB008 combined paclitaxel and carboplatin versus Avastin® combined paclitaxel and carboplatin

Test design					
 Target patients Stage IIIB + C/IV or recurrent metastatic non-squamous non-small cell lung cancer EGFR wild type 	TAB008 15mg/kg IV + Carboplatin / Paclitaxel Q3W*6 (n=273)	TAB008 7.5mg/kg IV Q3W	End o		
 Measurable target lesions (RECIST v.1.1) Adequate organ function Survival for over 3 months Asymptomatic CNS metastasis 	Bevacizumab 15mg/kg IV + Carboplatin / Paclitaxel Q3W*6 (n=273)	Bevacizumab 7.5mg/kg IV Q3W	f study		
Screening period	TAB008/bevacizumab: 6 cycles Carboplatin/paclitaxel: ≤6 cycles	Maintain treatment stage	Τ-		





TAB008 Clinical Progress-Phase III Clinical Trial Results Release 2/2





Effectiveness, TAB008 and the original ORR are 55.957% and 55.720%, respectively, with similar efficacy



Safety, the incidence of adverse events and serious adverse events in the treatment of the original study group is basically similar, the difference between the groups is not statistically significant, and it is clinically controllable

Bioequivalence, bioequivalence with the steady-state trough concentration of the original drug after administration

Comparison of objective remission rate (within 6 cycles)

AESI incidence rate comparison (%)

Ratio=1 (90%CI:0.89,1.14)



10 companies in the world and 3 domestic companies entered the phase III clinical stage, and TAA013 phase III clinical progress is leading in China

- The enrollment of the first patient in Phase III clinical trials has been completed in **July 2020** and it is in the recruitment stage currently
- 438 patients are pre-recruited for phase III clinical trials, leading the recruitment schedule
- Phase I clinical results were released in November 2020, no serious drug-related adverse reactions occurred, and the adverse reactions were clinically controlled

Clinical stage distribution of global ADC product



Clinical schedule of domestic HER2 target ADC products

Enterprise	Target	Toxic Load	State	Start Time of the State	
TOT BIOPHARM	HER2	DM1	ш	2020/7(FPI)	
X Company	HER2	Amberstatin26 9	111	2020/8(FPI)	
Y Company	HER2	MMAE	Ш	2020/9(FPI)	
A Company	HER2	DM1	la	2018/9	
B Company	HER2	DM1	I	2019/6	
C Company HER2		DM1	I 2019/6		
D Company	HER2	DM1	I	2019/8	

Source: Beacon Targeted Therapies, Chinadrugtrials.org.cn

TAA013 Clinical Progress-Phase I Clinical Trial Results Release 1/2





Mechanism of action

- With the targeting of trastuzumab, it binds to the specific antigen on the tumor cell membrane to induce endocytosis
- Highly active cytotoxic drug DM1 enters cells
- The combination of DM1 and tubulin destroys the microtubule network in the cell and induces apoptosis

Open label, single arm, 3+3 dose climbing design is used for the Phase I clinical

Phase I clinical design

Filter	Test design	Purpose
 Received trastuzumab treatment and disease progression HER2-positive breast cancer Survival period ≥ 3 months 	 3+3 dose climbing 5 dose groups: 0.6mg/kg, 1.2mg/kg, 2.4mg/kg, 3.6mg/kg, 4.8mg/kg. 	 Assess safety and tolerability Evaluate pharmacokinetic characteristics, immunogenicity and effectiveness



TAA013 Clinical Progress-Phase I Clinical Trial 东曜药业 Results Release 2/2

• Safety tolerance: no DLT was observed in each dose group, most of the adverse events were rated as grade 1-2, clinically controllable

• **Effectiveness:** The subjects received 4-line treatment on average and the objective remission rate of 10 subjects was 10% after receiving the recommended dose of 3.6mg/kg; the target lesions of 2 subjects shrank by nearly 30%, and the disease control rate reached 70%. The median progression-free survival was more than 5 months, and one subject had been treated for more than 600 days







Strategic Planning and Forecast

Centralize Full Play to Our Resources and Strengths for BIOPHARM

Leverage self-developed innovative technology platforms and commercial production capacity and enhance our core competitiveness

Strengthen advantages of ADC platform

R&D and production results verification One-stop cooperation platform

Product optimization and upgrade

High-tech barriers High economic value

Open strategic cooperation

Licensing-in/out, co-development, technological services and support

- One-stop ADC drug cooperation model
- Leading R&D and production platform for mAb and ADC drugs
- Rich practical experience with the results of multiple project cooperation
- Actively expand cooperation at home and abroad to accelerate the creation of economic benefits
- Expedite the launch of existing drug candidates and promote strategic cooperation
- Employ the three independent core technology platforms, focus on the development of high-threshold drugs, enhance product innovation and diversify the product pipeline
- Guideline: technological innovation + integration with global pharmaceutical community
 - Tap the advantages of our own open platform, enhance CDMO/CMO business cooperation, and diversify the cash flow
- Proactively seek strategic partners, promote collaborative development and the overseas authorization of products

Competitive advantage of ADC drugs R&D and production



One of the few capabilities of ADC drug R&D and commercial production in China

Ð	Advanced technology	 With core conjugation process and amplification technology, we have successfully established several stable production processes of ADC drug substance and formulation to ensure product stability and high consistency between different batches We have a complete ADC analysis technology platform whose independent analysis ability is crucial to the quality of ADC to ensure the successful development of ADC process and high quality of products
		• ADC pilot plant which is up to OEB-5 level
	Advantageous	 We have production workshop of large-scale commercial drug substance meeting GMP standard was put into operation in Sept. 2020
60	production	 We have internal ADC commercial production workshops integrating ADC drug substance, formulation and monoclonal antibody, the rare example of which meets GMP standards in China
		We have a complete team ranging from R&D, process development, clinical trials, registration and approval to commercial production
	Outstanding team	 We have ADC coupling technology R&D professionals and analysis team of complex ADC molecular structure
		 We have accomplished the R&D and production of several new generation ADC drugs for strategic partners, with extensive practical experience and successful cases

"One-stop" CDMO/CMO Cooperation Platform





- Production of clinical sample
- Commercialized production
- Preparation



- Assistance in IND application
- Assistance in BLA registration and application

- Cell strain development
- Cell bank preparation
- Upstream and downstream process development
- Drug substance and finished product
- Research on production and stability of cGMP drug substance and finished product

GMP production



- Quality assurance •
- Quality control

Registration & application



Advantages of diversified cooperation & CDMO/CMO services:

Optimized production process

Mature technology transfer

Production scale

Increased economic efficiency

Endless Devotion of Resource and Support





More efforts in R&D

- Continuously innovate drug R&D and development and Industry-University-Research Coordination
- Provide complete R&D infrastructure and create a good research environment
- Increase and attract more international talents

- GMP-standard international production plant
- International quality management system
- Patent application and protection at home and abroad
- Strict business ethics



- Expand mAb capacity and increase independent production lines to meet self owned business and CDMO business
- Build a complete "onestop" and ADC commercialized production platform

Diversified Mode of Cooperation



- Open cooperative platform: the best strategic partner for drug development, clinical trial and commercialization
- Flexible and diverse service platform: to meet the needs of projects running through different links from IND to product market



Forecasts for 2021





Clinical Progress

- Accelerate the recruitment of the subjects for TAA013 clinical trials
- Start Phase III clinical trial of TAB014
 - Finish BE test on TOM312

Product Licensing and Cooperation

- Transfer sales licenses of selfdeveloped products
- Surpass the revenue milestone of 100 million for CDMO business orders
- Cooperative development of innovative drugs





Key Financial Data – Revenue

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- The sales of the agency product S-1 was affected by the country's volume-based procurement, resulting in a decline in commission income
- The change of CDMO/CMO revenue mainly due to match with our customers' project schedules

Key Financial Data – Statements of Profit or Loss



		Unit	:: RMB' 000
Items	2019	2020	Diff%
Operating revenue	¥ 45,308	¥ 22,491	-50.4%
Operating costs	(11,316)	(6,961)	-38.5%
R&D expenses	(191,078)	(235,196)	23.1%
Selling expenses	(31,544)	(25,953)	-17.7%
Management expenses	(95,091)	(46,855)	-50.7%
Other expenses (net)	14,117	3,802	-73.1%
Profit from Operations (Loss)	(269,604)	(288,672)	7.1%
Non-operating income and expenses (net) *	(29,696)	174	N/A
Net Profit (Loss)	(299,300)	(288,498)	-3.6%
Adjusted Net Profit(Loss)**	¥ (206,739)	¥ (272,666)	31.9%

• **Operating cost:** Decrease in line with a drop in income.

Sales expenses: due to the suspension or postponement of a number of marketing activities due to the impact of the COVID-19.

• Administrative expenses: due to the listing expenses included in the same period in 2019.

Other income and expenditure (net): due to the decrease in government subsidies.

Note: * Government subsidies and exchange gains and losses

** Adjusted listing and financing costs, warrant expenses, valuation loss on convertible, preferred shares, and exchange loss



For the Year Ended 31 Dec	Unit: RMB'000			
	2019	2020	Diff	
Net Loss	¥ (299,300)	¥ (288,498)	-3.6%	
Adjusted Net Loss	(206,739)	(272,666)	31.9%	
EBITDA	¥ (269,658)	¥ (254,710)	-5.5%	
Adjusted EBITDA	(177,097)	(238,878)	34.9%	
		Unit: RMB/Share		
	2019	2020	Diff	
EPS	¥ (0.89)	¥ (0.51)	-42.7%	
Adjusted EPS	(0.62)	(0.48)	-22.6%	

R&D Expenses Comparison in 2020 VS 2019





- clinical trial that resulted in an increase in demand for active pharmaceutical ingredients (APIs), excipients and consumables by related contract research (CROs) and those for the preparation of clinical drugs
- Increase in depreciation due to the addition of commercial production facilities and GMP-related continuous construction

TOT BIOPHARM



Your Best Partner In The Fight Against Cancer

Thanks