Huaota Biopharma

A member of Huahai Pharmaceutical Group



March 2022

HUNOTIN

Profile



Huaota Biopharma is a clinical stage biotechnology company with a focus on discovery, development and commercialization of biologic cancer and autoimmune therapeutics.

Founded in 2013 with a vision of OTA, Open-To-All innovations and technologies, our mission is to create low-cost and high-quality medicines for improving patients' lives worldwide.

The parent company Huahai Pharmaceutical is one of the leading API and generic drug manufacturers in China, with a well-established sales network, supplying high quality products in more than 65 countries.



Executive Summary



- The company has the headquarter in Shanghai with operation space of 150,000 sf and state-of-the-art R&D facilities.
- The management team has global expertise in discovery and development of biologics in multiple therapeutical areas, and currently manages a team of 200+ scientists and engineers in several functions: Discovery, CMC/Quality, Clinical Development / Regulatory Affairs and Partnership.
- A strong pipeline of NMEs has been generated with IP positions in global markets, several of which are cleared INDs/CTAs in US, Australia, New Zealand, China and in clinical development, specifically second-generation Immune Oncology and antiautoimmune therapies. We are seeking partners to co-develop these programs in markets in and outside of China.
- A manufacturing powerhouse of 200,000 L DS and 500 million doses of DP capacity is planned and being built in HangZhou. We welcome opportunities to make and/or sell partners' products in China or regional markets through licensing and CDMO models.



CEO, Dr. Xiangyang Zhu, former executive with Boehringer Ingelheim in biologics discovery and CMC, inventor and team leader of the blockbuster drug Skyrizi. PhD in Microbiology and Immunology from The University of Illinois at Chicago. A former physician and entrepreneur.

CBO, Dr. Jason Lu, former executive of Business Development and Licensing, and marketing with MSD, PhD in Molecular Genetics and Biochemistry from Rutgers University, a former pediatric hematologist and a drug discovery scientist at Schering-Plough.

VP, Discovery & Pre-clinical Development, Dr. Yifan Zhan, former Senior Scientist and Immunologist in Walter and Eliza Hall Institute of Medical Research, Australia, with 100+ publications on Immunology. PhD in Immunology from The University of Melbourne.

VP, Quality, Dr. Qian Chen, former CMC and quality executive in analytics and compliance with Boehringer Ingelheim and Johnson and Johnson, PhD from The Pennsylvania State University.

VP, Clinical Development, Dr. Yongmin Yang, former executive leading Ph I-IV clinical development and bioanalytical and pharmacokinetics studies with Covance and WuXi AppTec. PhD in Microbiology and Immunology from the Chinese Academy of Preventive Medicine now CDC.

Technology Platforms - multi-modality



Antibody Drug Discovery



Synerbody: ab based multi-binder



Pilot-Commercial DS & DP Production



Antibody Drug Conjugate



Discovery - Novel MOAs & Combinations







 \checkmark 40 + staff + CROs

✓ 19 studies, 4 CSRs, 15 ongoing
✓ >600 subjects

✓ 3 countries, China, US, NewZealand

NME Model

Positive POC results for Global Partnerships

i.g. HB0017 (IL-17) first NME demonstrates excellent clinical efficacy and safety profile, and best-in-class commercial potential with its favorable PK profile. Partnering Model

Combination studies for Enriching Pipeline

i.g. HOT1030 (CD137) Capability of tech/data transfer and launching clinical development and commercialization plan in licensed territories Biosimilar Model

Quick MA and Revenue

i.g. HOT-1010 (Avastin) HOT-3010 (Humira)

Established biosimilar clinical development and commercialization procedure for future portfolio expansion

Flexible Partnership - Expand the Global Market Reach & Pipeline



Strategy:

- Out-license: co-development partnership on Huaota NMEs worldwide.
- Co-discovery partnership: utilizing Huaota technology platforms.
- Out-license: licenses of Huaota biosimilars in regional markets.
- In-license: partners' biologic products for Chinese or regional markets.
- CDMO: Biologics DS & DP process scale-up, optimization and supply.
- Financing: VC or strategic investment in upcoming funding rounds.



Accelerating Clinical Development on NMEs



2020 - 2021 4 initiated Clinical Trials 1 has positive signals I. HB0017, IL-17, Ib positive interim POC results

- 2. HB0025. PD-L1/VEGF, Ia good safety profile
- 3. HB0030, TIGIT, Ia FPI 2021Q4
- 4. HB0034, IL-36R, Ia FPI 2021Q4

	20)22		
4	more	into	Ph	I

- 5. HB0036, PD-L1/TIGIT, Ia FPI 2022Q1
- 6. HB0028, PD-L1/TGF β , 1a FPI 2022Q2
- 7. HB0043, IL36R/IL-17, Ia FPI 2022Q4

8. HB0045, CD73X2, 1a FPI 2022Q4

HB0017 – IL-17 blocker

 \geq

Features

Status



Features and Status

Significant efficacy to reduce psoriasis and arthritis in

preclinical models. Strong blocking of IL-17A bioactivity

Excellent safety profile: MTD of single dose \geq 500mg/kg in

cynomolgus monkeys; no obvious AE from Phase I study

Phase la competed in New Zealand; phase lb ongoing in China



MoA

HB0017 strongly blocks IL-17A bioactivity in vitro

BLA planned in China and US

HB0017 significantly blocks psoriasis and arthritis in preclinical models



1st POC of Company NMEs: Efficacy Signal in Plaque Psoriasis



300 mg Q3W cohort has faster & stronger responses than SKIRIZI and ustekinumab treatments.



A106 in 150 mg cohort at 12 weeks



www.skirizihcp.com

HB0025 – VEGF/PD-L1 BsAb





HB0030 – TIGIT mAb





HB0034 – IL-36R mAb





HB0036 – TIGIT/PD-L1 BsAb





HB0028 – TGF-β/PD-L1 BsAb

Features and Status



Molecular Structure





2013 In-license 2 biosimilar Mabs for initiating biologics business

2017 In-license anti-CD137 for investment and pipeline

2019 Out-license HOT-1010 for strategic partnership and income

Expanding Biosimilar Portfolio



	Two backbone products for cancer and autoimmune Therapeutic Areas:
2025	1. HOT-1010, Avastin biosimilar, now in Ph III study
2 products on market	2. HOT-3010, Humira biosimilar, now in Ph III study
	An expansion strategy for high value and high product efficiency:
0000	1. HOT-2000, target undisclosed
2030 5. modusta en manhat	2. HOT-4000, target undisclosed
products on market	3. HOT-5000, target undisclosed



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