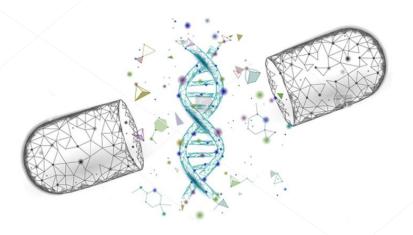
Saving Lives Through Innovation

Genexine



Corporate Overview

Sep 2022

MiraeAsset Healthcare Corp Day

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Genexine: A New Era of Growth and Opportunity

"Focused on the Development of Innovative biologics and Saving the Lives of Patients."



Corporate Highlights

- Genexine is embracing a positive change in direction, leadership and shareholder value
- Targeting product commercialization and global growth
- ➤ The next 12-24 months should see Genexine launch its first commercial products and establish operations in the US

Genexine's goal is to become the first global Korean biopharmaceutical company

A Collaborative Effort: Creating Synergy, Leveraging Strengths

Neil Warma President & CEO

GENEXINE **MANAGEMENT**

- JW Woo, President and Rep Dir
- SJ Hong, CFO
- JS Park, CMO
- HJ Park, VP Corp Dev
- MK Heo, VP, Clinical Dev • KY Kim, VP, CMC
- JH Lee, VP OPs

YJ Kim

HJ Lee

JK Pai

- P Laivins
- N Warma
- JW Woo
- SJ Hong

BOARD OF DIRECTORS

YC Sung Chair, SAB **SCIENTIFIC ADVISORY BOARD**

- HS Shin
- JH Kang
- EC Shin
- MH Yu
- CB Chae
- MJ Ahn



Neil Warma: New CEO - Industry Leader

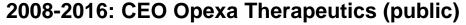
Background and expertise

2019-2022: I-Mab: U.S. GM/CEO (public)

- Global Immuno oncology company
- Offices: Shanghai, Beijing, San Diego, Maryland, Hong Kong



- Led two oncology start-ups from MD Anderson Cancer Center



- Public Immunotherapy company



- Protein therapeutics company

2000-2003: Founder, President MedExact (private)

- Medical technology company

1992-2000: Executive at Novartis Pharmaceuticals (public)

- Global Marketing, Global leader Policy and International Affairs

















Pipeline Overview: Multiple Clinical Assets, On-going Ph 3 trials

Pipeline	Indication	Clinical Stage			Developer	Collaborator	
	mulcation	Phase 1	Phase 2	Phase 3	Bevelopei	Collaborator	
GX-E4	CKD-induced Anemia	Phase 2	in KR	Phase 3 in Asia	Genexine, KG Bio, CWB	XKGbio ・ 凯茂生物 CHEMO WANDANG BIOPHARMA	
CV HO	Growth Hormone Deficiency (PGHD)	Phase 2 in	KR/EU	Phase 3 in CN	Genexine/Handok I-MAB	HANDOK I-MAB	
GX-H9	Growth Hormone Deficiency (AGHD)	Phase 2 in	KR/EU		Genexine/Handok	HANDOK	
GX-17	mTNBC, GBM, Skin cancer etc.	Phase 1~2 in	KR/US/CN		Genexine, I-MAB NeolmmuneTech	MERCK (Roche) (I-MAB BIOPHARMA NEGIMMUNETECH	
GX-P1	Autoimmune disease Organ transplantation	Phase 1 in KR			Genexine, GenNBio	GenNBio TURRET CAPITAL—	
GX-188E	Cervical cancer	Phase 2	in KR		Genexine	MERCK*	
GX-G3	Neutropenia	Phase 2	in EU		ILKOGEN, I-MAB	ILKOGEN I-MAB BIOPHARMA	





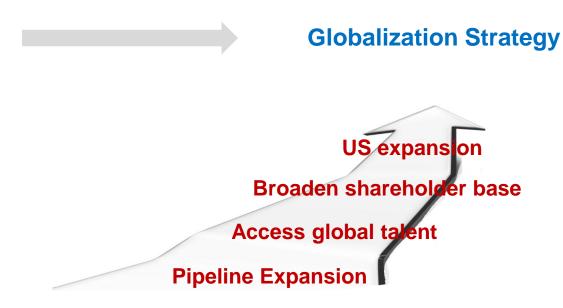
Growth Strategy

The 1st global Bio Venture company from Korea

Commercialization Strategy



Near Term Growth will come from executing clinical milestones



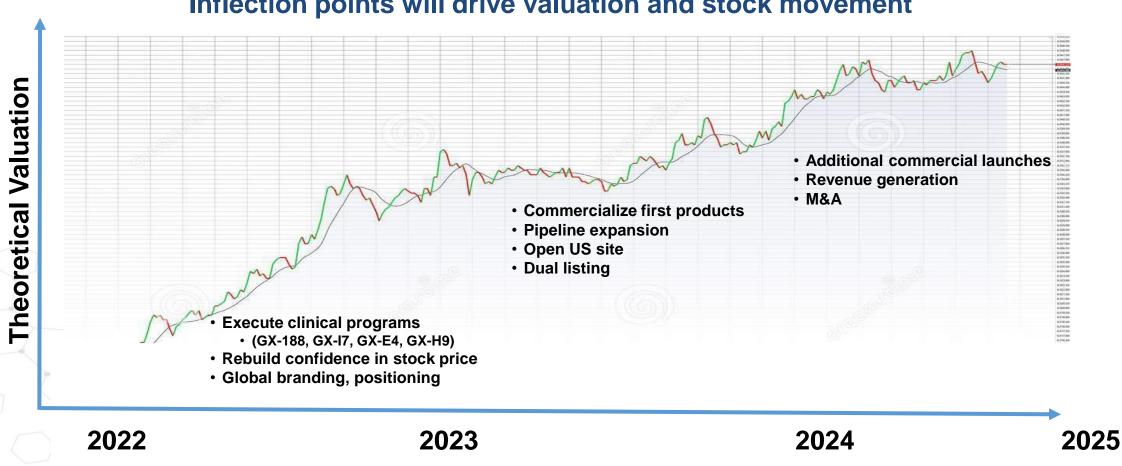
Mid-term Growth will come through access to novel assets, people and markets

We have demonstrated our research strength ...Shareholders are awaiting execution & transition to a global development company

Executing the 2-stage strategy will drive tremendous value

3-5 Year plan

We need to be laser focused on key milestones Inflection points will drive valuation and stock movement



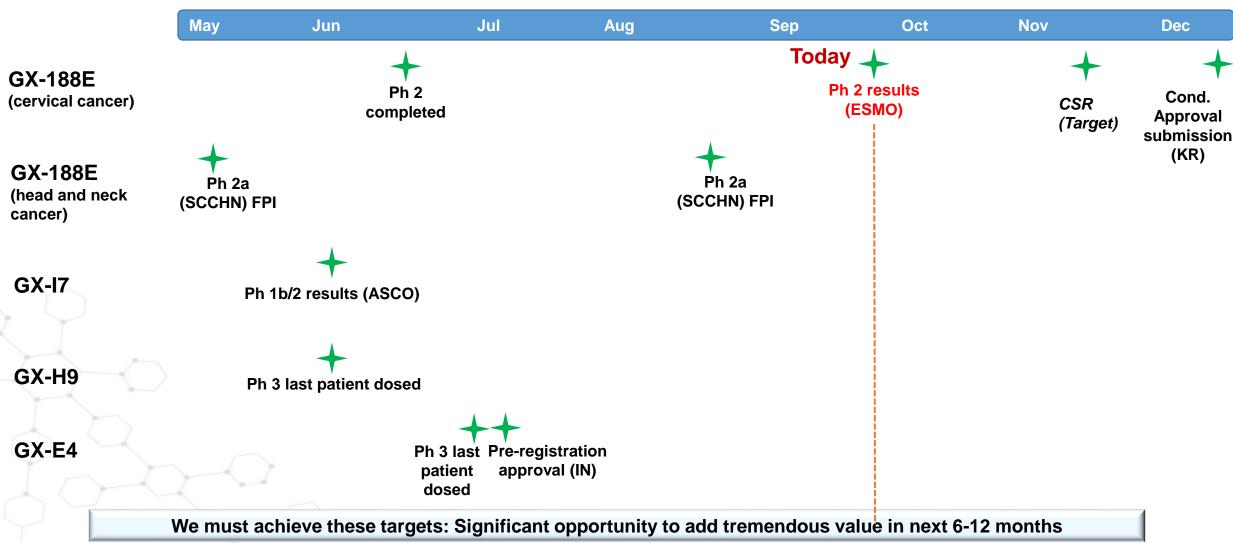
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Genexine

Stage 1: Commercialization Strategy

Near-term growth ... successful execution and achievement of recent milestones

2022



^{**} Final results is expected to be announced in CSR report.



Genexine's Commercialization Plan

Multiple BLA submissions over next 5 years (based on current status)

2023		2024-2025		2025-
GX-188E +Keytruda® (conditional approval)	GX-I7 (NT-I7) +Keytruda® (conditional approval)	GX-E4	GX-H9	GX-I7 +Temozolomide
				25 55 55 55 55 55 55 55 55 55 55 55 55 5
Cervical cancer	CRC/PaC/ TNBC/GBM	CKD-induced Anemia	Growth Hormone Deficiency	GBM
Phase 2 (Korea)	Phase 2 (Korea/US)	Phase 3 (Asia)	Phase 3 (China)	Phase 2 (China)



Our world in the next 3-5 years

Global Footprint

Multiple locations focused on global drug development Listed on two stock exchanges

Financial Strength

Revenue Generating Strong Cash Balance Tremendous increase in Valuation \$3-5 Bn

Genexine

Product Excellence

3-4 Products commercialized Next generation of first-in-class assets in clinical dev.

Global partnering deals (LO and LI)

Kosdao U.S.

Seoul Head office

- Finance
- R&D
- Clinical/Reg
- · BD, OPs

- IR
- · Clinical/Reg

World Class Talent

Building a culture of growth & development Where employees thrive and belong **Building internal talent pipeline**





GX-I7: The Only Solution for Lymphopenia

- Only clinical-stage long-acting human IL-7 drug candidate
- No lymphopenia correction drugs have been approved, to date
- IL-7 fundamental cytokine for naïve and memory T-cell development and sustaining immune response
- Favorable PK/PD and safety profile, for combination with Checkpoint Inhibitors or CAR-T therapies.
- Multiple ongoing trials in solid tumors, and in planning for hematologic malignancies

Erythrocyte

EPO (Erythropoietin) Anemia

Epogen: Amgen Mircera: Roche

Global Market \$ 10.7bn in 2025 from \$ 7.3bn in 2018

Platelet

TPO (Thrombopoietin) Thrombocytopenia

Nplate: Amgen Promacta: Novartis

Global Market \$3.3bn in 2025 from \$ 3.0bn in 2018

Neutrophil

G-CSFs Neutropenia

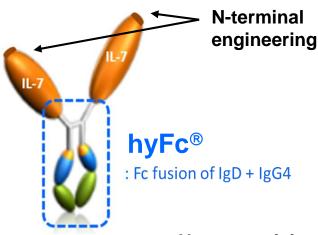
Neupogen: Amgen Neulasta: Amgen

Global Market \$15.4bn in 2025 from \$ 11.3bn in 2018

Lymphocyte GX-I7 (Efineptakin alfa) Lymphopenia GX-I7 (NT-I7 / TJ-107) Global Market

GX-I7: The First Long-acting Lymphopenia Correction Drug Candidate

Hybrid Fc-fused long-acting recombinant human IL-7 which plays an essential role in the development and homeostasis of T-cells

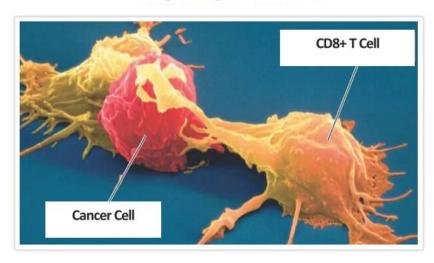


No cytotoxicity on target cells (No ADCC of IgD & No CDC of IgG4)

- Higher protein stability
- Higher productivity
- Longer in vivo half-life

T cell Amplifier

Long-acting Interleukin-7



T cell Activator

- Cancer vaccine
- IL-2, IL-15, IFN-alpha
- CD137 L, OX40 L, ICOSL
- TLR agonists, etc

T cell Suppressor blockade

- anti-PD-1, anti-PD-L1
- anti-CTLA4
- anti-TIM-3, anti-TIGIT
- anti-TGF-beta

Genexine

GX-I7(NT-I7/TJ-107): Clinical Development

								IIVIAD	INII
Field	Туре	Treatment	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Par	tner
	СОМ	KEYTRUDA®	TNBC	Phase '	1b/2, KEYNOTE-89	9		MERCK	Ne@Immune Tech
	СОМ	Avastin	Recurrent GBM	Phase 2		Roche			
	COM GX-188E/Opdivo		Recurrent HNSCC (HPV16)	Phase 2a					
	Mono	-	Solid Tumor	Pha	se 1/2a (STM101)			Genexine	Ne©IMMUNETECH
	СОМ	Temozolomide	GBM	Pha	ase 2 (GBM201)				
	СОМ	Pembrolizumab	TNBC, HNSCC	Phase 2 (STM202)					
	Mono	-	GBM (n=75)	Phase 1 (NIT-104, Single do	se)		JOHNS HOPKINS UNIVERSITY	
Oncology	СОМ	Temozolomide	GBM (n=46)	Phase 1/2 (NIT-107)		Washington University in School School, or Mindelse			
Officology	СОМ	Tecentriq®	High risk skin cancer	Phase 1b/2a (NIT-106)		Roche Cancer Immunoth trials network	erapy		
	СОМ	KEYTRUDA®	TNBC, Lung, Pancreatic, Colorectal cancer	Phase 1b/2a (NIT-110), KEYNOTE-A60		MERCK			
	СОМ	Opdivo®	Gastric, GEJ, and Esophageal Adenocarcinomas	Phase 2 (NIT-109)		ر ^{اا} ا Bristol Myers Sqı	uibb [™]		
	СОМ	Tecentriq®	NSCLC, Non-Small Cell Lung Cancer	Ph	ase 2 (NIT-119)			Roche	
	Mono	-	Recurrent GBM	Phase 1 (NIT-115)			UCSF	
	Mono	-	Kaposi's sarcoma	Phase 1 (NIT-108)			FRED HUTCH cures start Here	
	СОМ	Kymriah®	Diffuse large B-cell lymphoma	Phase 1b	(NIT-112)				
-	Mono	-	Idiopathic CD4 ⁺ T Lymphopenia	Under IND subm	ission (NIT-114)			National Institute of Allergy and Infectious Diseases	
47	СОМ	Vaccine	Preventative vaccine (Elderly cancer survivors)	Phase 1a/1	b (NIT-105)			NIH NATIONAL CANCER INSTITUTE	
Infectious	Mono	standard	Covid19 treatment	Phase 1b					
Disease	Mono	standard	Covid19 treatment		Phase 2			XKGbio	
	Mono	standard	Covid19 treatment	Phase 1 (NIT-116)			NIH National Institute of Allergy and Infectious Diseases	
	Mono		Progressive polysomal leukoencephalitis	Phase 1 (NIT-113)			NIH) National Institute of Allergy and Infectious Diseases		



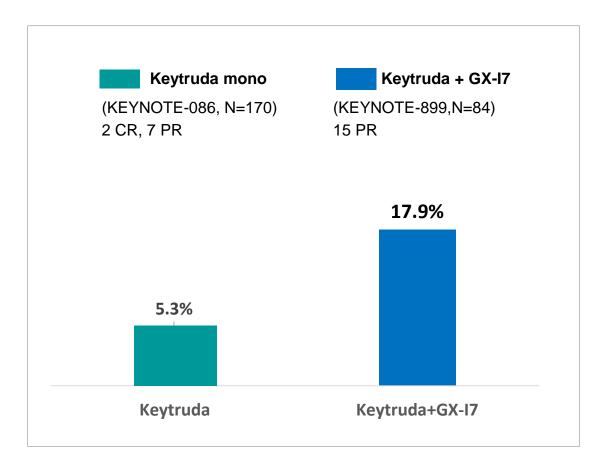
GX-I7 (NT-I7): Promising Efficacy and Safety in mTNBC

- ASCO June 2022: phase 1b/2 study of GX-I7 plus pembrolizumab in patients with R/R mTNBC
- ORRs in patients with CPS≥10 were 60% (6/10) vs 0% (0/15) with CPS<10.

Ph1b/2 Interim Result in mTNBC

Response	GX-I7/Pembrolizumab Simultaneous Treatment (N=84)				
(RECIST v1.1) N (%)	Ph1b/2 (N=84) Total	Ph2 (N=33) PR2D 1,200μg/kg			
	45 (47.0)	7 (04.0)	CPS≥10 N=10	6(60)	
ORR	15 (17.9)	7 (21.2)	CPS<10 N=15	0(0)	
DCR	28 (33.3)	10 (30.3)			
CR	-	-			
PR	15 (17.9)	7 (21.2)			
SD	13 (15.5)	3 (9.1)			
PD	54 (64.3)	21 (63.6)			

Source: ASCO 2022 Poster Presentation





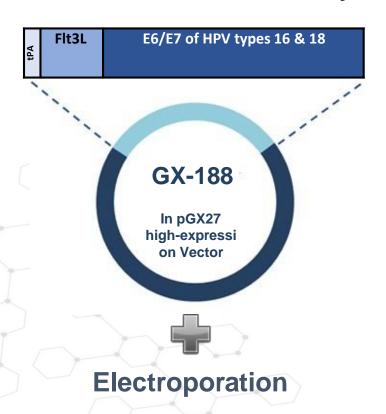
GX-188E DNA Vaccine for Cervical Cancer and SCCHN

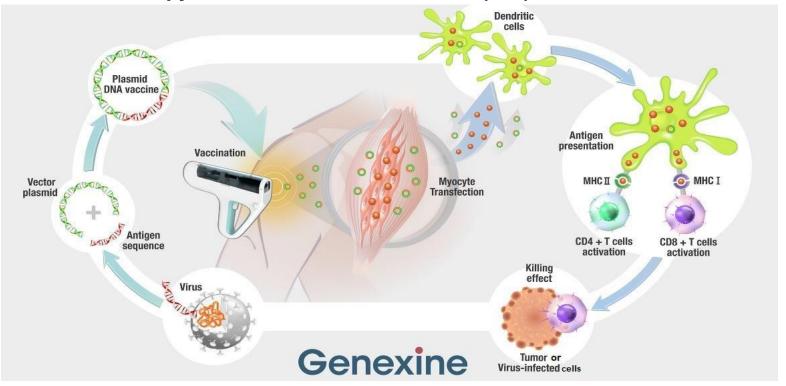
First-in-Class Drug Candidate



GX-188E: Therapeutic DNA Vaccine against HPV-based diseases

- Therapeutic DNA Vaccine for HPV genotypes 16 & 18 (responsible for 70% of cervical cancer)
- Rationally designed DNA vaccine to enhance HPV 16/18, E6- and E7-specific CD8 + T cell responses
- Electroporation improves delivery and uptake
- Dramatic increase in efficacy as combination therapy with Check Point Inhibitors (CPI)





Source; TJ Kim et al, Nat Commun.; YJ Choi et al, Clin Cancer Res., 2020; JW Youn et. al, Lancet Oncol, 2020

GX-188E+ Keytruda: Clinical Overview (1b/2)

- 1. Compared with pembrolizumab monotherapy¹⁾, the combination of GX-188E with pembrolizumab markedly improved the **ORR** in both PD-L1 positive (**36.1%** vs 12.2%) and **PD-L1 negative** (**25.0%** vs 0%) patients and the DCR in both PD-L1 positive (55.6% vs 32.9%) and PD-L1 negative (37.5% vs 20%) patients
- 2. The mOS in patients with relapsed end-stage cervical cancer is ~6 months and with Keytruda monotherapy treatment ~9 months. The Ph 2 results with GX-188E + Keytruda showed an increase in mOS to ~17 months.
- 3. The combination of GX-188E with pembrolizumab was safe and tolerable in both any grade (34%) and Grade 3&4 (4.6%). No trial drug-related deaths occurred.
- 4. Given the safety profile and tolerability of GX-188E, the frequency of administration could be increased (multiple doses), thereby enhancing duration of effect.
- 5. The combination of GX-188E with PD-1 pathway blockade can generate synergistic anti-cancer effects, since the DNA vaccine can induce expansion and lesion infiltration of antigen-specific T cells, converting cold tumors to hot tumors, and PD-1 pathway blockage can reinvigorate exhausted antigenic-specific T cells.
- 6. In this respect, clinical results on the combination of GX-188E with Pembrolizumab demonstrated that GX-188E could become the first therapeutic DNA cancer vaccine to satisfy both factors: 1) Safety of repeated administration and 2) Protection and enhancement of the host immune system.

GX-188E+ Keytruda: ESMO 2022 results (Cervical Cancer)

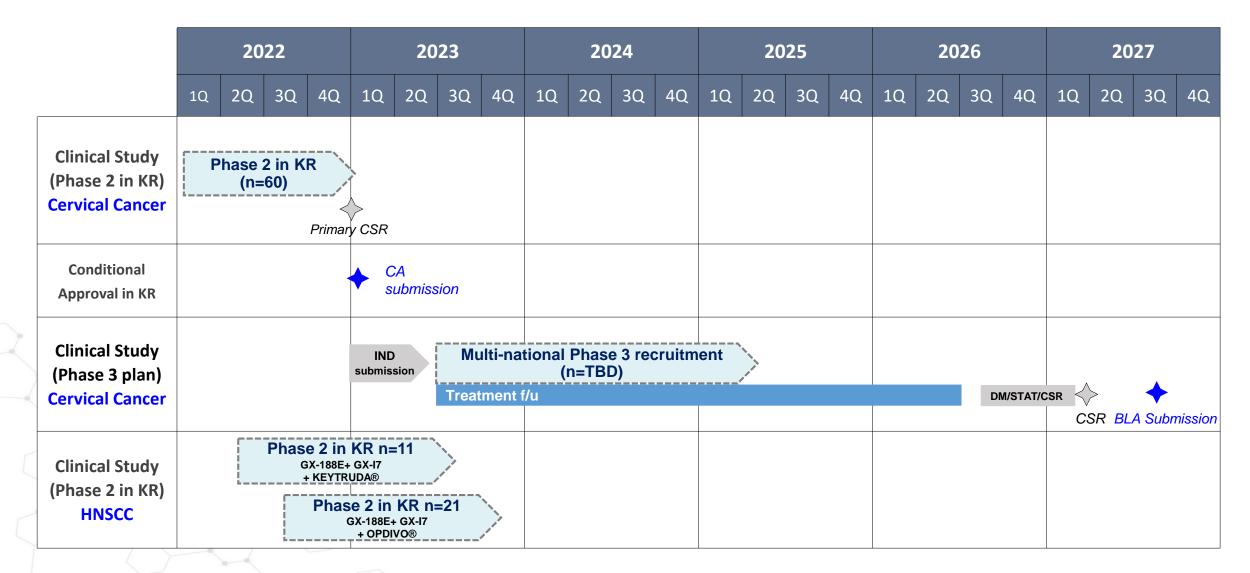
GX-188E + Pembrolizumab combination treatment in patients with HPV-16-/18- positive advanced cervical cancer

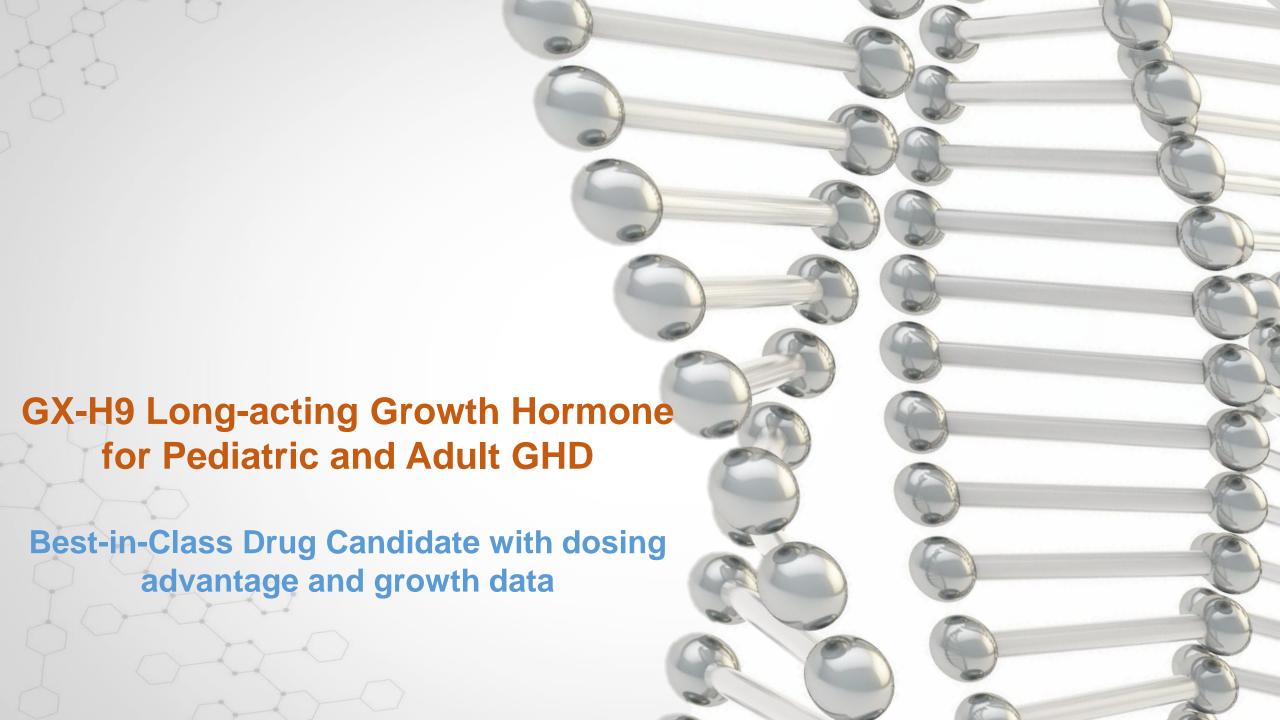
- Total of 65 patients have been enrolled, and 60 patients were available for analysis
- Safe & tolerable (comparable to pembrolizumab monotherapy, KN-158)
- Improved and durable responses in both PD-L1 positive (ORR 36.1%) and PD-L1 negative (ORR 25.0%) patients
- Higher ORR (38.5%) in patients with PD-L1 positive, HPV 16 & SCC
- Markedly prolonged DOR (12.3 m) and OS (17.2 m)

GX-188E combined with pembrolizumab is safe and efficacious treatment for patients with HPV 16-/18-caused recurrent or metastatic cervical cancer who failed from SoC, and showed an enhanced clinical response rate compared with pembrolizumab alone in particular in patients with PD-L1 positive, HPV-16 and squamous cell carcinoma.



GX-188E: Expected Global Clinical Development Plan





Phase 3: GX-H9 (Long-Acting Growth Hormone Deficiency Treatment)

AGHD and PGHD

Growth Hormone Deficiency Treatment

Daily Injection

312 ~ 365 shots/year

Weekly/Bi-weekly injection

Weekly: 52 shots/year Bi-weekly: 26 shots/year

Clinical Unmet Needs Long-Acting & Convenience

Clinical Trials

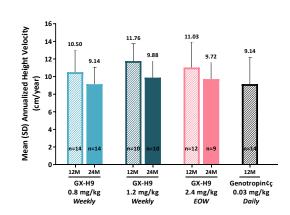
Ph3 Trial in China by I-Mab

- Ph3 approval: 2020 Oct.
- FPI: 2021 Feb.
- BLA: 2024 first half
- Patients: n=165 (expected completion of recruitment 2H 2022)

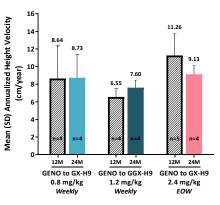
Growth data comparison, 1st yr vs 2nd average growth

- Weekly or bi-weekly based injection clinical data for 5 to 12 yrsold growth hormone deficiency patients.
- Growth rate continued in 2nd yr compared to 1st yr.
 (both weekly and bi-weekly)
- Growth rate continued even after switching to H9 2nd yr after injection of other growth hormone product during 1st yr.
 (both weekly and bi-weekly)
- Developing pen type injector for better convenience.

aHV at 1st and 2nd year by doses



Switching to GX-H9 at 1 year



* EOW : Every Other Week

GX-H9 Global Development Status





GX-H9 Market & Competitive Landscape

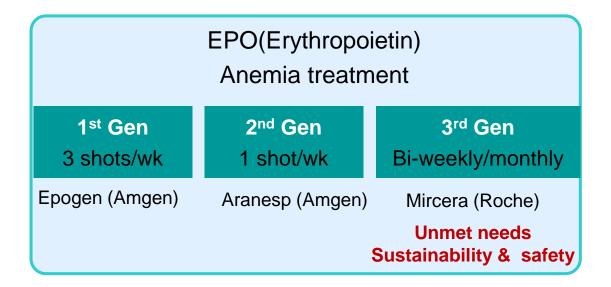
- Pediatric growth hormone deficiency treatment, global market expected \$6.0 B (CAGR6.4%) in 2030.
- Chinese pediatric growth hormone deficiency treatment market expected \$3.2B (CAGR 15.7%) in 2030, 60% share of global market

Reference : F&S, CMBIS

Company	Genexine HANDOK	ascendis pharma	OPKO Pfizer	novo nordisk	GenSci 金赛药业	特宝生物 AMOYTOP BIOTECH
Product	GX-H9	TransCon hGH	somatrogon	somapacitan	Jintrolong®	Xiamen Amoytop Biotech
Frequency	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly
Stage	I-MAB BIOPHARMA CN, Phase 3	US, Marketed ('21.8) CN, Phase 3	US, BLA submission	US, Phase 3	CN, Marketed	CN, Phase 2/3
Orphan Drug Designation	FDA: Nov. 2016 EMA: July 2021	FDA: Apr. 2020 EMA: Oct. 2019	FDA: Sep. 2010 EMA: Jan.2013	EMA: Aug. 2018	-	-
# of Patients	n=165	n=150	n=224	n=200	n=1500	n=400
Height Velocity	11.76cm/yr (1.2mg/kg)	11.2cm/yr (0.24mg/kg)	10.12cm/yr (0.66mg/kg)	11.5cm/yr (0.16mg/kg)	2.26±0.87cm ~ 13.41±3.72cm/yr (0.2mg/kg)	-



Phase 3: GX-E4 (Long-acting EPO)

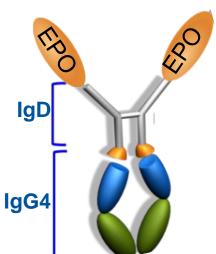


Clinical Trials

- Phase 3 trial in multi-nations (2020 March~)
 - CKD-induced Anemia (non-dialysis)
 - 7 countries: Korea, Australia, Taiwan, Indonesia, Malaysia,
 Philippines, Thailand.
 - Recruited 327 / 386(Dec. '21)
 - Non-inferiority study against Mircera

Competitiveness

Long-acting EPO drug with superior sustainability, efficacy, safety and **price competitiveness**



No mutation

Outstanding efficacy and safety

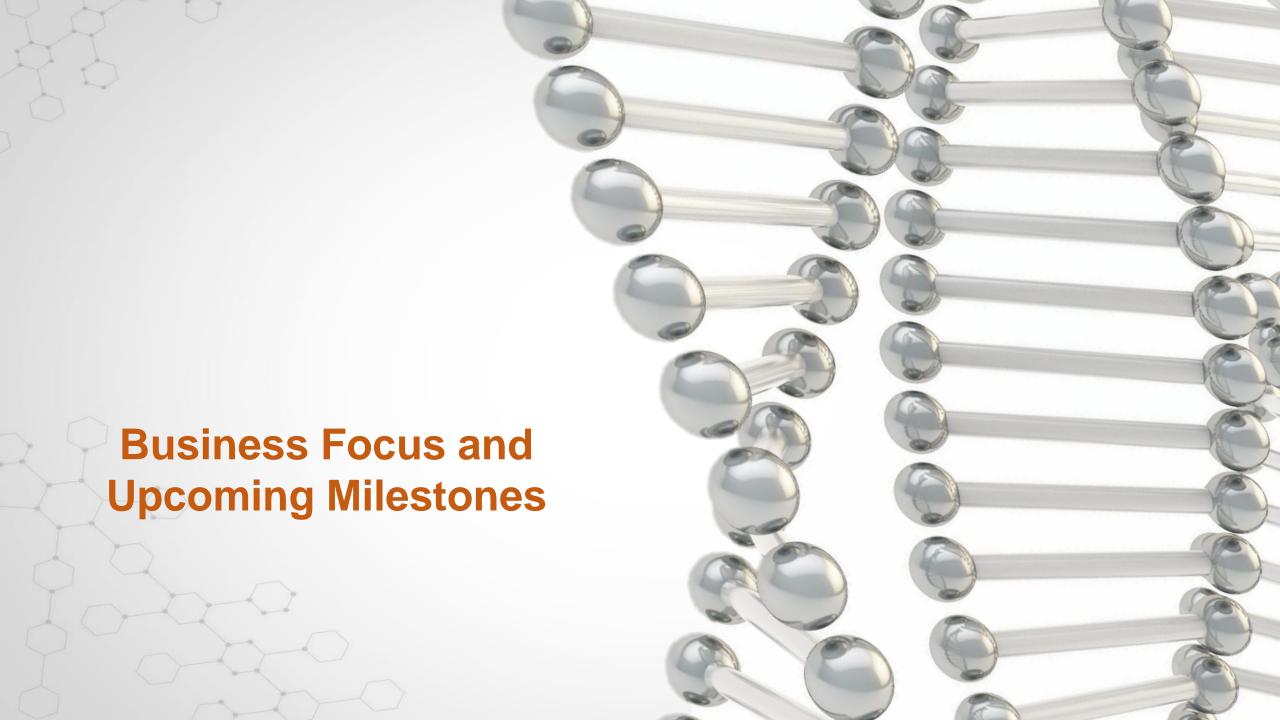
- High activity and efficacy
- Safely treat patients without hypersensitive immune reaction nor adverse events.

Price competitiveness

- Simplified production process
- Price competitive due to low mfg. cost

Superior sustainability

- Bi-weekly or monthly dose





Genexine leverages global development via strategic partnersh

Contract Date	Partner Company	Product	Territory
2014.07	BSK	GX-188E	China
2015.06	NeoImmuneTech	GX-17	Europe/USA
2015.10	I-Mab	GX-H9, GX-G6, GX-G3 etc.	China
2016.02	CWB	GX-E4	China
2016.03	KG BIO	GX-E4	ASEAN
2017.12	I-Mab	GX-17	China
2020.01	GENBIO	GX-P1, GX-P10	Worldwide
2020.12	Turret Capital	GX-P1	Worldwide
2021.02	KG BIO	GX-17	ASEAN, MENA, Oceania, etc.

Genexine Investment Thesis

Poised for global expansion and value generation

- Genexine pursuing a global path to drug development that will enable it to leverage global markets, technology and capital
- With solid platform technologies and multiple first-in-class products, Genexine now in position to commercialize its first products over the next 2-3 years.
- Uniquely positioned to access novel technology in South Korea, Asia and the U.S. provides competitive advantage
- Globally networked and experienced leadership team for efficient execution of global development plan
- Key near-term clinical data readouts & inflection points will drive shareholder value

