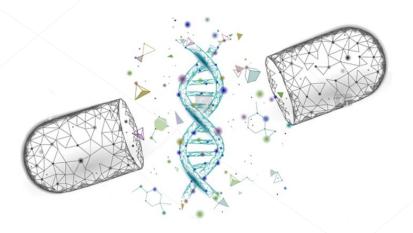
Saving Lives Through Innovation

Genexine



Corporate Overview Neil Warma, President and CEO

KBIC July 12, 2022

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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 focus
- > 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

Key Executive Members

Professional leadership from discovery through clinical development, CMC and commercialization



CEO Neil K. Warma

US GM, I-Mab Biopharma CEO, Opexa Therapeutics CEO, Viron Therapeutics Founder, President, MedExact Global Mktg, Policy, Novartis Pharma, Univ. of Toronto HBSc, neuroscience York Univ. MBA



COO/CEO Jungwon Woo

SNU MS Pharmacology Cornell Univ. PhD. Microbiology Harvard Medical School post doc Research Professor, Seoul St. Mary's Hospital



CFO Sung-June Hong

Yonsei Univ. MBA Vanderbilt Law School LLM Daewoo Motors, Philip Morris, Nike Korea, Handok CFO President of Rokit Healthcare



CMO Jong-Sub Park

Professor, MD
Catholic Univ. College of
Medicine
Catholic University
Director of Gynecological
Cancer Center
Johns Hopkins
Exchange Professor



VP, Corp Dev Hyun-Jin Park

SKKU Pharmacy
Aalto Univ. MBA
GSK Korea
sales/marketing
Daewoong Pharma
Executive director,
Development division



VP, Clinical Dev Min-Kyu Heo

Yonsei Univ. MMed JW Creagen Clinical Tean JW Pharma Clinical Team



VP, CMC Ki-Yong Kim

Yonsei University
Ph.D. Biochemistry
NIH Postdoctoral
Fellow
Mokam Biotechnology
Res. Center
Green Cross Res. Inst.



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



2017-2019: CEO for 2 MD Anderson oncology spin-outs (private)

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



2008-2016: CEO Opexa Therapeutics (public)

- Public Immunotherapy company



- Protein therapeutics company



- Medical technology company



- Global Marketing, Global leader Policy and International Affairs









Two Proprietary Platforms yield late-stage candidates

hyFc™ (Long-acting protein drugs)



Long-acting platform technology which can be applied to various APIs to maximize protein sustainability.

DNA vaccine (Cancer therapeutic/ Infectious disease)



Therapeutic + Preventive DNA vaccine platform with strong T cell immunity.

A Clinical Stage biotech company developing First-in-Class & Best-in-Class products derived from two proprietary platforms

Two on-going Phase 3 trials, targeting multiple BLA submissions in the next 2-4 years

Head office in Seoul, Korea, expansion into U.S. in next 12 months; ability to conduct global drug development

Access to multiple novel drugs and platforms through extensive strategic partnerships



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

Pipeline		Indication		Clinical Stage	Developer	Collaborator		
	penne	indication	Phase 1	Phase 2	Phase 3	Developei	Collaborator	
	GX-E4	CKD-induced Anemia	Phase 2	in KR	Phase 3 in Asia	Genexine, KG Bio, CWB	KGbio	
	GX-H9	Growth Hormone Deficiency (PGHD)	Phase 2 in	KR/EU	Phase 3 in CN	Genexine/Handok I-MAB	HANDOK I-MAB	
V	GA-H9	Growth Hormone Deficiency (AGHD)	Phase 2 in	KR/EU		Genexine/Handok	HANJOOK	
	GX-I7	mTNBC, GBM, Skin cancer etc.	Phase 1~2 in	KR/US/CN		Genexine, I-MAB NeolmmuneTech	MERCK Roche DI-MAS BIOPHARMA NEGIMMUNETECH	
	GX-P1	Autoimmune disease Organ transplantation	Phase 1 in KR			Genexine, GenNBio	GenNBio TURRET (学)知변바の요	
	GX-188E	Cervical cancer	Phase 2	in KR		Genexine	MERCK*	
	GX-G3	Neutropenia	Phase 2	in EU		ILKOGEN, I-MAB	ILKOGEN I-MAB BIOPHARMA	



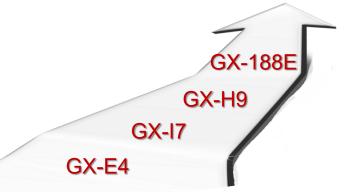


Growth Strategy:

Genexine the 1st global Bio Venture company from Korea

Commercialization Strategy

Globalization Strategy



US expans on
Broaden shareholder base
Access global talent
Pipeline Expansion

Near Term Growth will come from executing clinical milestones

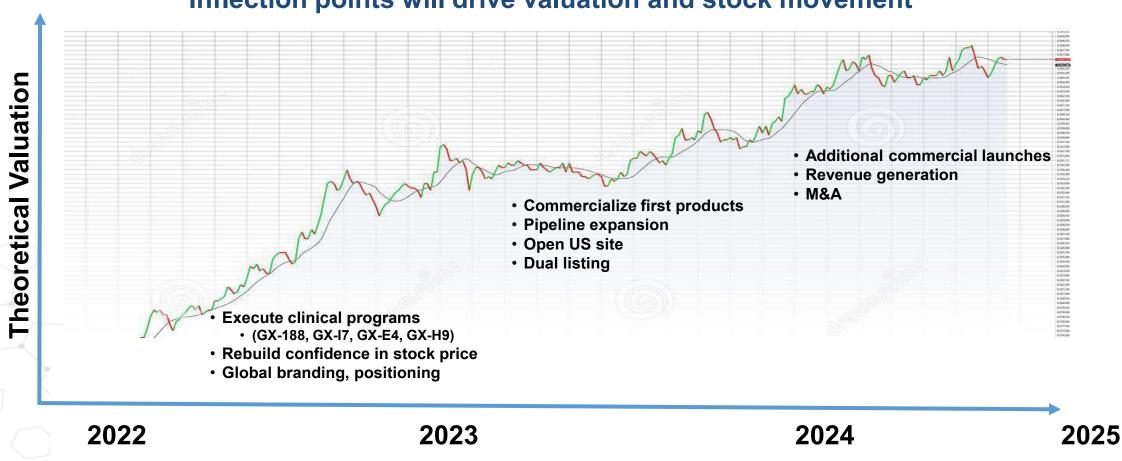
Mid-term Growth will come through access to novel assets, people and markets

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

Executing the 2-stage strategy will drive tremendous value

3-5 Year plan

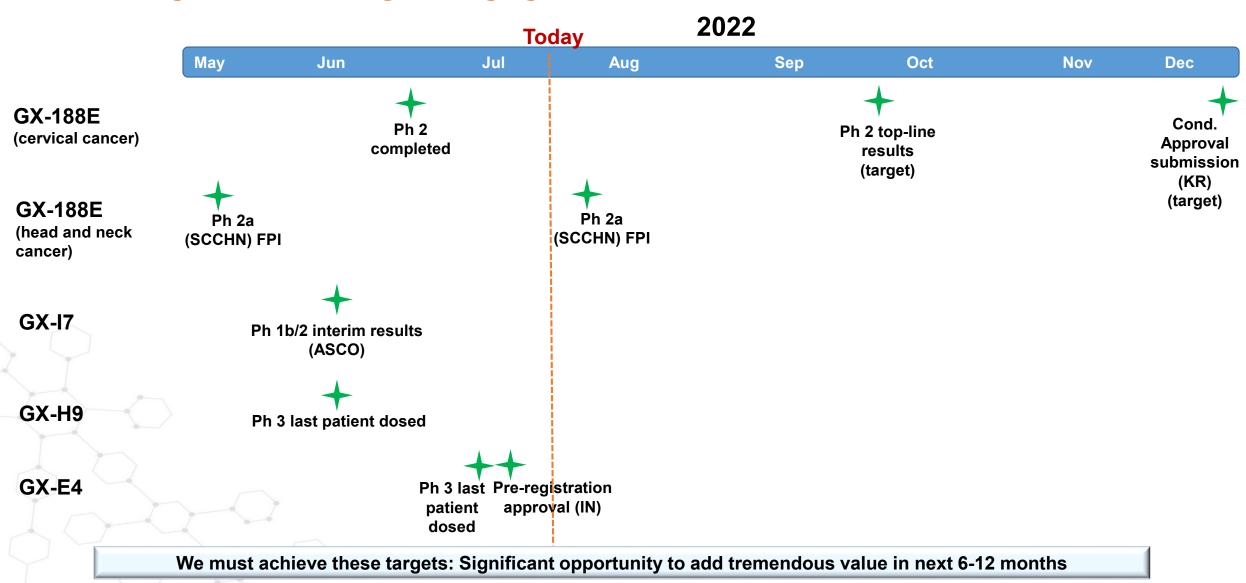
We need to be laser focused on key milestones Inflection points will drive valuation and stock movement



Genexine

Stage 1: Commercialization Strategy

Near-term growth ... shifting into high gear



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
				45.55 55.55
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



Product Excellence

3-4 Products commercialized

Next generation of first-in-class assets in

clinical dev.

Global partnering deals (LO and LI)





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

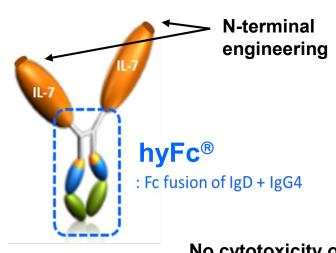
Neupogen: Amgen Neulasta: Amgen

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

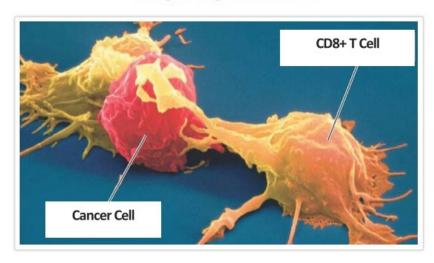
Hybrid Fc-fused long-acting recombinant human IL-7 which plays an essential role in the development and homeostasis of T-cells



- 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	Type	Treatment	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Par	tner	
	СОМ	M KEYTRUDA® TNBC		Phase '	1b/2, KEYNOTE-89	9		MERCK	Ne@Immune Tech	
	СОМ	Avastin	Recurrent GBM		Phase 2			Roche		
	СОМ	GX-188E/Opdivo	Recurrent HNSCC (HPV16)		Phase 2a					
	Mono	-	Solid Tumor	Pha	se 1/2a (STM101)			Genexine	Ne©IMMUNETECH	
	СОМ	Temozolomide	GBM	Ph	ase 2 (GBM201)					
	СОМ	Pembrolizumab	TNBC, HNSCC	Ph	ase 2 (STM202)					
	Mono	-	GBM (n=75)	Phase 1 (NIT-104, Single do	se)		JOHNS HOPKI	NS	
Oncology	СОМ	Temozolomide	GBM (n=46)	Pha	ase 1/2 (NIT-107)			Washington University in Salaus Science, or Minicians		
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 ^{ال} Bristol Myers Sqı	ıibb [™]		
	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)					
1	Mono	-	Idiopathic CD4 ⁺ T Lymphopenia	Under IND subm	ission (NIT-114)			NIH National Institute of Allergy and Infectious Diseases		
47	СОМ	Vaccine	Preventative vaccine (Elderly cancer survivors)	Phase 1a/1b (NIT-105)			NIH NATIONAL CANCER INSTITUTE			
Infectious	Mono	standard	Covid19 treatment	Phas	e 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		

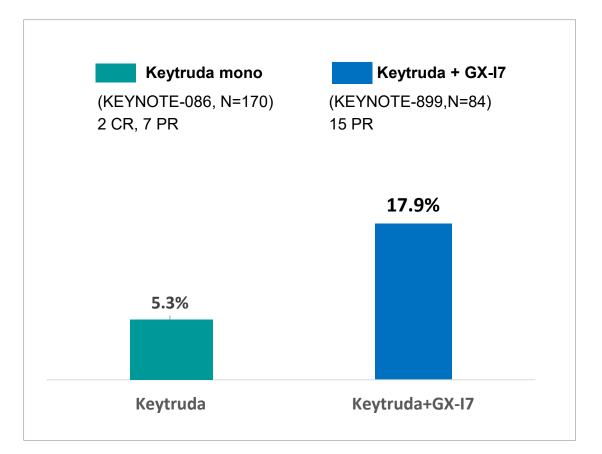


GX-I7 (NT-I7): Promising Efficacy and Safety in mTNBC

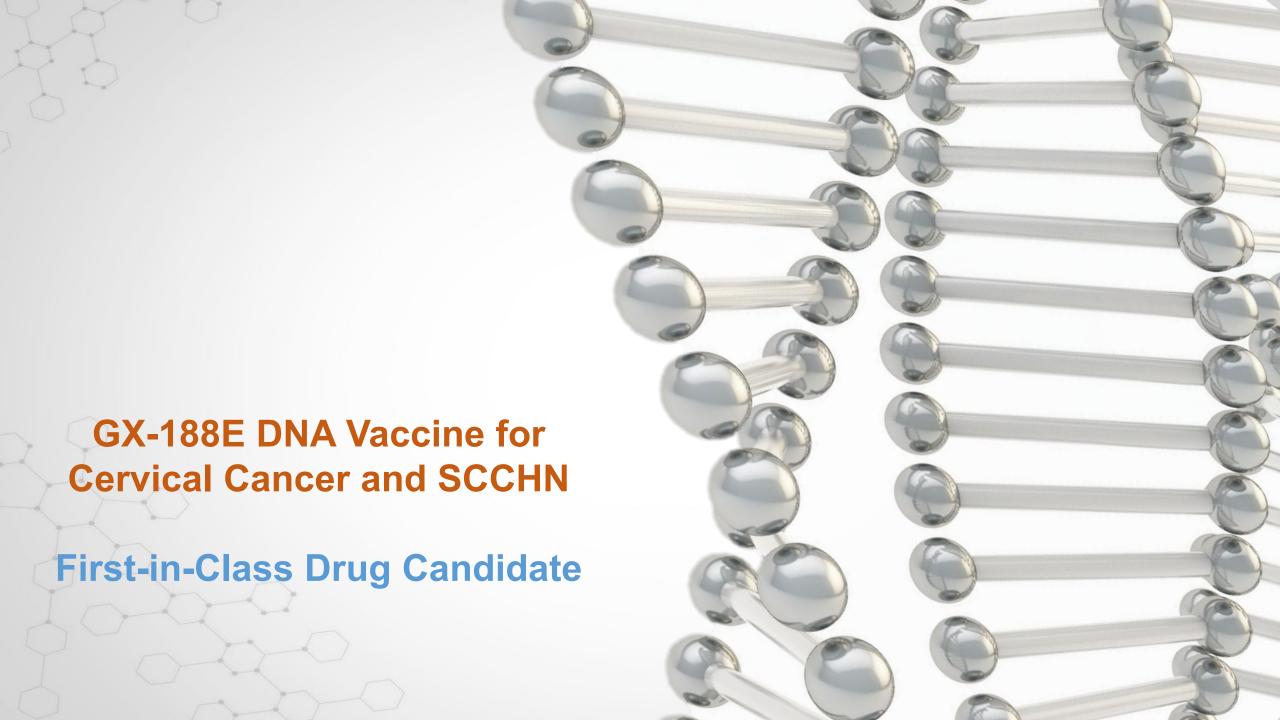
- ASCO June 2022: phase 1b/2 study of GX-I7 plus pembrolizumab in patients with R/R mTNBC
- ORRs in patients with CPS≥10 were 60% (6/10) vs 0% (0/15) with CPS<10.

Ph1b/2 Interim Result in mTNBC

Response (RECIST v1.1)	GX-I7/Pembrolizumab Simultaneous Treatment (N=84)						
N (%)	Ph1b/2 (N=84) Total	Ph2 (N=33) PR2D 1,200μg/kg					
ORR	15 (17.9)	CPS≥10 N=10 6(60)					
Onn	13 (17.3)	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)					

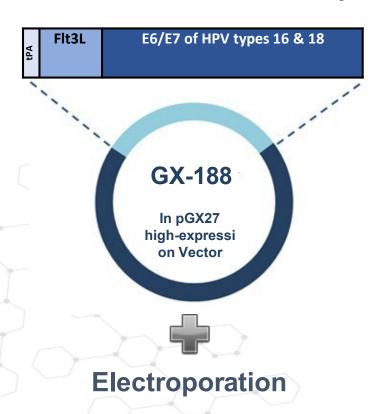


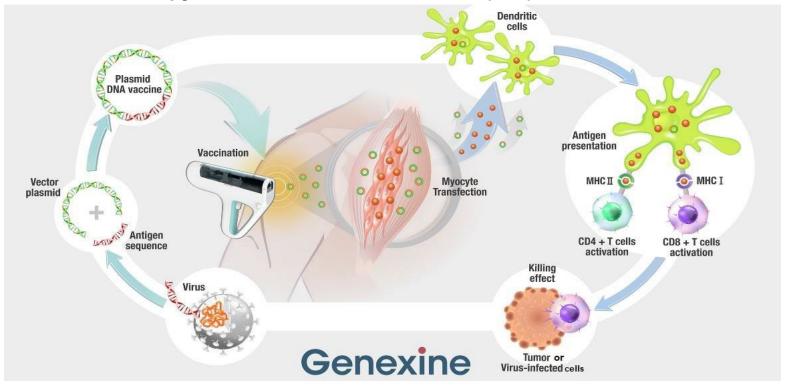
Source: ASCO 2022 Poster Presentation



GX-188E: 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: Overall Timeline & Current Status (Cervical Cancer)

Phase 2 clinical timeline

Product/Indication	1	2	3	4	5	6	7	8	9	10	11	12	2
GX-188E + KEYTRUDA® Cervical Cancer, >2L								Тор	line r	esults			
(n=60)													
			ORR W14	-	R_W24 vestigator		ORR_W24 by BICR	DB lock	ESMO 2022	TLF		CSR	CA Sub.

Interim analysis

- (n=48/60 total) reported at ASCO 2021, results from ph2 for combination with Keytruda (KEYNOTE-567)
- 33 % ORR (16/48) with 6 CR and 10 PR.
- 48.0% (12/25) ORR under condition of PD-L1 + patients, HPV 16 and SCC (squamous cell carcinoma).
- High safety and tolerability: similar AE level compared to Keytruda mono.

Expected Milestones

- Presentation of top-line results in 2H '22 (possibly ESMO)
- Submission of conditional approval in Korea, early '23
- Commercial plans:
 - On-going discussions with potential partners for Phase 3 and commercial
 - Evaluating commercial launch in Korean market by Genexine

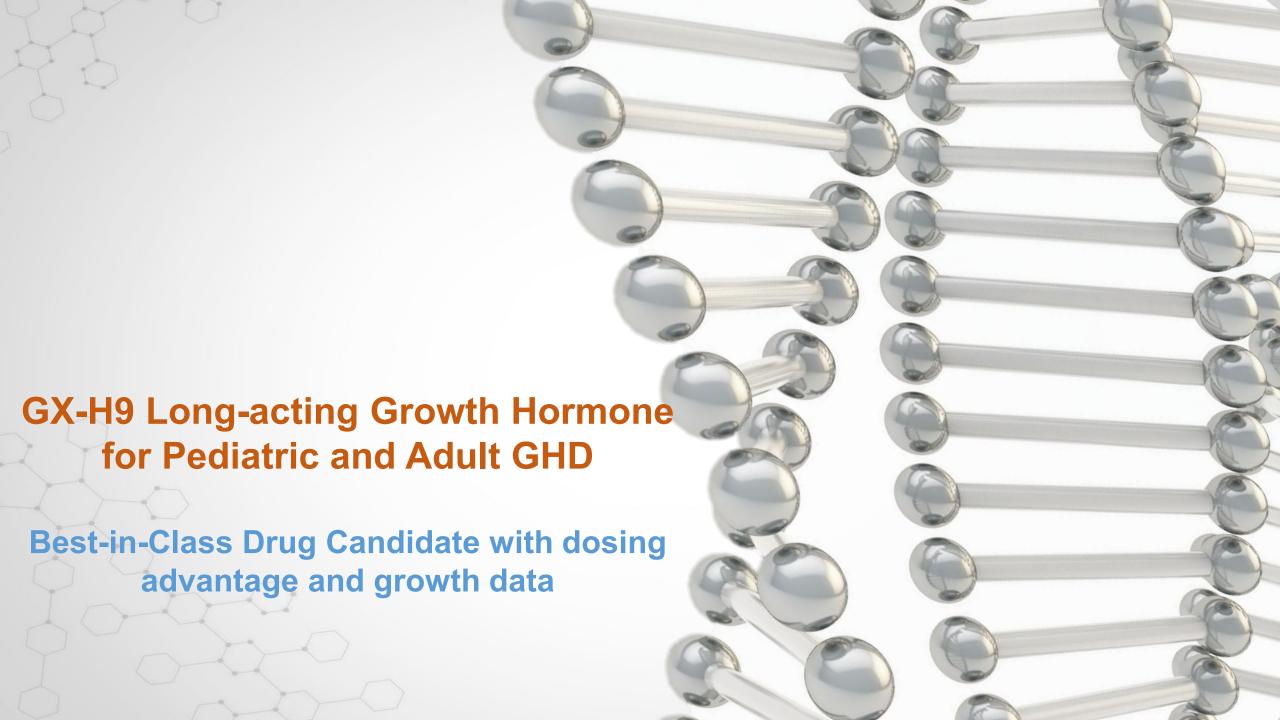


GX-188E + CPI + GX-I7: Overall Timeline & Current Status (Head & Neck Cancer)

Product/Indication	Objectives	1	2	3	4	5	6	7	8	9	10	11	12
GX-188E+ GX-I7	 Anti-tumor PoC and safety of 												
+ OPDIVO®	triple combo in HPV+ r/m		IND Ap	p./Contract		Enroll & Tx.							
r/m HNSCC, <u>>2L</u> (n=21)	HNSCC			IND Approval	Opdivo Register	in site		FPI	Lead-in safety (n=3)	C	ORR at W9 (n=6)	LPI	
GX-188E+GX-I7 + KEYTRUDA®			IND App	./Contract					Enroll	& Tv			
LA HNSCC (n=11)	 Histological PoC of triple combo in tumor microenvironment 		пар дрр	INE	proval	FPI			Einon	LPI			MPR data

Expected 2022 Milestones

- IND submissions Q1/2 '22
- Last patient dosed Q4 '22 for both studies



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

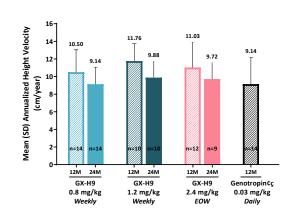
Ph3 Trial in China by I-Mab

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

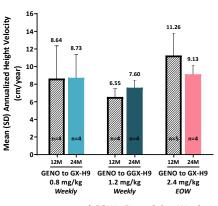
Growth data comparison, 1st yr vs 2nd average growth

- 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



Getting ready for mass-production

end of 2021

Early stage **Global development** development Genexine L/O (Oct. '13) Ph3 in China (on going) Total deal \$ 100mn GX-H9 (GX-H9, G6, G3 combined) Sales milestone BLA submission expected Growth hormone deficiency-2024 **Pediatric** Ph1 in EU, Ph2 multi-national trial Expected Launch 2025 completed Growth hormone deficiency-adult Ph1 in EU, Ph2 multi-national trial completed Co-developing with Handok **Evaluating ROW Ph3** CMC improvement completed Genexine Purity

Global market

- · China (excl. HK, Macau, Taiwan)
- Strategic alliance with **Jumpcan Pharmaceutical for** fast commercialization in **China** (Nov. '21)

America, EU, Korea, Japan **ASEAN, MENA,** Oceania.



GX-H9 Market & Competitive Landscape

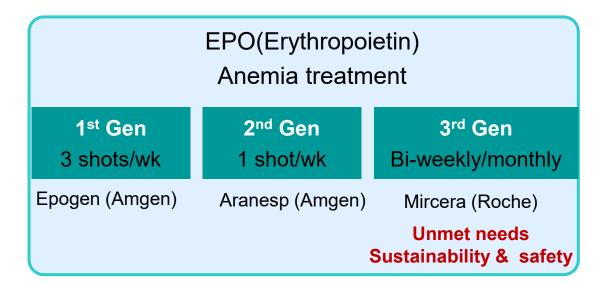
- Pediatric growth hormone deficiency treatment, global market expected \$6.0 B (CAGR6.4%) in 2030.
- Chinese pediatric growth hormone deficiency treatment market expected \$3.2B (CAGR 15.7%) in 2030, 60% share of global market

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)

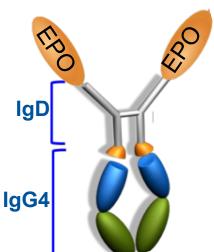


Clinical Trials

- 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	NeolmmuneTech	GX-I7	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-I7	China
2020.01	GENBIO	GX-P1, GX-P10	Worldwide
2020.12	Turret Capital	GX-P1	Worldwide
2021.02	KG BIO	GX-I7	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

