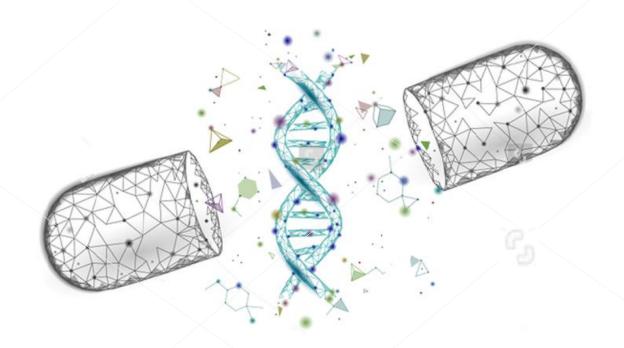
Saving Lives Through Innovation

# Genexine

Corporate Overview May 2022



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# **Genexine: A Global Biopharmaceutical Company**

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



Focused R&D	<ul><li>Immuno-oncology</li><li>Orphan drugs</li></ul>
Proprietary platform technologies	<ul> <li>hyFc<sup>TM</sup> fusion technology</li> <li>DNA vaccine technology</li> </ul>
Advanced Therapeutic Candidates	<ul> <li>GX-I7 Long-acting Interleukin 7</li> <li>GX188E for Cervical Cancer and SCHNC</li> <li>GX-H9 Long-acting Growth Hormone</li> </ul>
Key milestones	<ul><li>Expected first commercial launch 2023/24</li><li>Key data releases in 2022</li></ul>
Location	<ul><li>Head office: Seoul, Korea</li><li>Expansion to US expected in 2022</li></ul>
Employees	<ul><li>Total 130 employees</li><li>R&amp;D 60.7%</li></ul>
Market Cap	• USD \$1.0 B (Q1 2022)

# **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.

# 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

ni	peline	indication	Clinic	al development	phase	sponsor	collaborator	
pi	penne	indication	Phase 1	Phase 2 Phase 3		эропзог	Collaborator	
	GX-E4 (long-acting EPO)	CKD-induced Anemia	Phase 2	in KR	Phase 3 in Asia	KG Bio	Genexine	
	GX-H9 (long-acting	Growth Hormone Deficiency (Pediatric)	Phase 2 in	KR/EU	Phase 3 in CN	Handok, I-MAB	Genexine	
ě	growth hormone)	Growth Hormone Deficiency (Adult)	Phase 2 in	KR/EU		Genexine, Handok		
	GX-I7	TNBC, GBM, High risk Skin cancer	Phase 1b/2 in	KR/US/CN	<b>&gt;</b>	Genexine, NIT, I-Mab	MERCK Roche  Ulli Bristol Myers Squibb	
	OX II	COVID-19 treatment	Phase 2 in I	ndonesia	•	KG Bio, Genexine		
	GX-188E	Cervical cancer	Phase 2	in KR		Genexine		

Completed

On-going



# **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

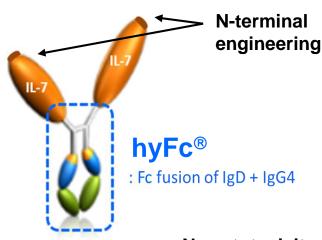
Neupogen: Amgen Neulasta: Amgen

**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

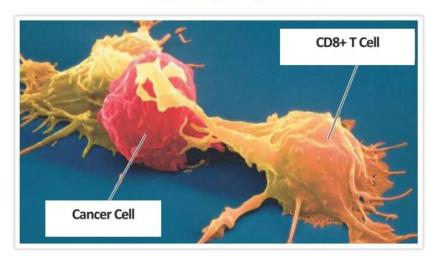


No cytotoxicity on target cells (No ADCC of IgD & No CDC of IgG4)

- 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

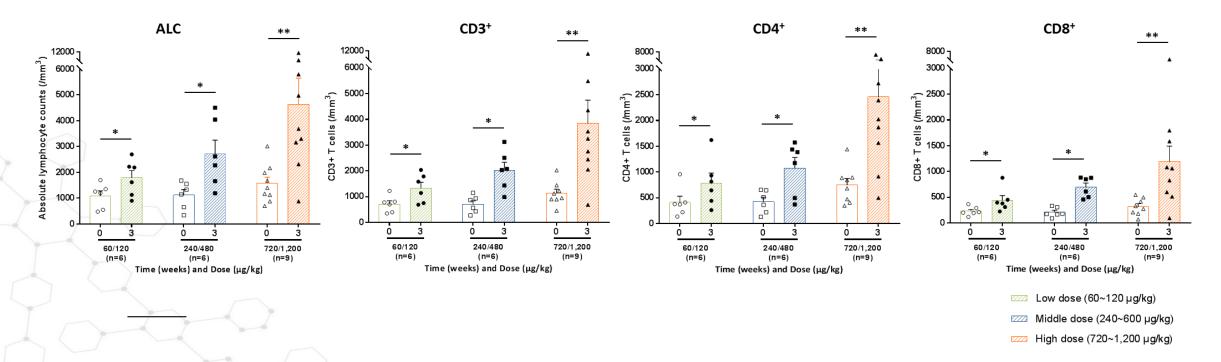
- anti-PD-1, anti-PD-L1
- anti-CTLA4
- anti-TIM-3, anti-TIGIT
- anti-TGF-beta

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

			_				IIVIAD	
Туре	Treatment	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Par	tner
COM	KEYTRUDA®	TNBC	Phase '	1b/2, KEYNOTE-89	9		MERCK	<b>Ne@Immune</b> 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	<b>Ne@Immune</b> Tech
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
СОМ	Temozolomide	GBM (n=46)	Pha	ase 1/2 (NIT-107)			Washington University in Schuls School, of Minicine	
СОМ	Tecentriq®	High risk skin cancer	Phas	se 1b/2a (NIT-106)				егару
СОМ	KEYTRUDA®	TNBC, Lung, Pancreatic, Colorectal cancer	Phase 1b/2a	Phase 1b/2a (NIT-110), KEYNOTE-A60			<b>♦</b> MERCK	
СОМ	Opdivo®	Gastric, GEJ, and Esophageal Adenocarcinomas	Ph	Phase 2 (NIT-109)		ر <sup>اا</sup> ا Bristol Myers Squibb ّ		
СОМ	Tecentriq®	NSCLC, Non-Small Cell Lung Cancer	Ph	ase 2 (NIT-119)			Roche	
Mono	-	Recurrent GBM	Phase 1 (	NIT-115)			UC <sub>SF</sub>	
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 <sup>+</sup> T Lymphopenia	Under IND subm	ission (NIT-114)	_		NIH National Institute of Allergy and Infectious Diseases	
СОМ	Vaccine	Preventative vaccine (Elderly cancer survivors)	Phase 1a/1	b (NIT-105)			NIH NATIONAL CANCER INSTITUTE	
Mono	standard	Covid19 treatment	Phas	e 1b				
Mono	standard	Covid19 treatment	Phase 2			ΧKGbáo		
Mono	standard	Covid19 treatment	Phase 1 (	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	
	COM COM Mono COM Mono COM COM COM COM COM COM COM COM COM Mono Mono COM Mono COM Mono COM Mono	COM KEYTRUDA® COM Avastin COM GX-188E/Opdivo Mono - COM Temozolomide COM Pembrolizumab Mono - COM Temozolomide COM Tecentriq® COM KEYTRUDA® COM Opdivo® COM Tecentriq® Mono - Mono - COM Kymriah® Mono - COM Kymriah® Mono - COM Vaccine Mono standard Mono standard	COM KEYTRUDA® TNBC COM Avastin Recurrent GBM COM GX-188E/Opdivo Recurrent HNSCC (HPV16)  Mono - Solid Tumor  COM Temozolomide GBM  COM Pembrolizumab TNBC, HNSCC  Mono - GBM (n=75)  COM Temozolomide GBM (n=46)  COM Tecentriq® High risk skin cancer  COM KEYTRUDA® Colorectal cancer  COM Opdivo® Gastric, GEJ, and Esophageal Adenocarcinomas  COM Tecentriq® NSCLC, Non-Small Cell Lung Cancer  Mono - Recurrent GBM  Mono - Kaposi's sarcoma  COM Kymriah® Diffuse large B-cell lymphoma  Mono - Idiopathic CD4+ T Lymphopenia  Preventative vaccine (Elderly cancer survivors)  Mono standard Covid19 treatment  Mono standard Covid19 treatment  Mono standard Covid19 treatment	COM KEYTRUDA® TNBC Recurrent GBM COM GX-188E/Opdivo Recurrent HNSCC (HPV16)  Mono - Solid Tumor Phase COM Temozolomide GBM Pembrolizumab TNBC, HNSCC Mono - GBM (n=75) Phase 1 ( COM Temozolomide GBM (n=46) Phase 1 ( COM Temozolomide GBM (n=46) Phase 1 ( COM Tecentriq® High risk skin cancer Phase COM KEYTRUDA® TNBC, Lung, Pancreatic, Colorectal cancer Phase 1 ( COM Tecentriq® Adenocarcinomas Phase 1 ( COM Tecentriq® NSCLC, Non-Small Cell Lung Cancer Phase 1 ( COM Tecentriq® NSCLC, Non-Small Cell Lung Cancer Phase 1 ( COM Tecentriq® Diffuse large B-cell lymphoma Phase 1 ( COM Kymriah® Diffuse large B-cell lymphoma Phase 1 ( COM Vaccine Preventative vaccine (Elderly cancer survivors)  Mono standard Covid19 treatment Phase 1 ( Covid19 treatment Phase 1 ( Covid19 treatment Phase 1 ( COM Phase 1 ( COVID Phase	COM KEYTRUDA® TNBC Phase 1b/2, KEYNOTE-89 COM Avastin Recurrent GBM Phase 2 COM GX-188E/Opdivo Recurrent HNSCC (HPV16) Phase 2 COM GX-188E/Opdivo Recurrent HNSCC (HPV16) Phase 2(STM101) COM Temozolomide GBM Phase 2 (GBM201) COM Pembrolizumab TNBC, HNSCC Phase 2 (STM202) Mono - GBM (n=75) Phase 1 (NIT-104, Single do COM Temozolomide GBM (n=46) Phase 1/2 (NIT-107) COM Temozolomide GBM (n=46) Phase 1/2 (NIT-107) COM Tecentriq® High risk skin cancer Phase 1b/2a (NIT-106) COM KEYTRUDA® TNBC, Lung, Pancreatic, Colorectal cancer Phase 1b/2a (NIT-110), KEYNOT COM Tecentriq® Adenocarcinomas Phase 1 (NIT-110) COM Tecentriq® NSCLC, Non-Small Cell Lung Cancer Phase 2 (NIT-119) Mono - Recurrent GBM Phase 1 (NIT-115) Mono - Kaposi's sarcoma Phase 1 (NIT-118) COM Kymriah® Diffuse large B-cell lymphoma Phase 1b (NIT-112) Mono - Idiopathic CD4*T Lymphopenia Under IND submission (NIT-114) COM Vaccine Preventative vaccine (Elderly cancer survivors) Mono standard Covid19 treatment Phase 2 Mono standard Covid19 treatment Phase 1 (NIT-116)	COM         KEYTRUDA®         TNBC         Phase 1b/2, KEYNOTE-899           COM         Avastin         Recurrent GBM         Phase 2           COM         GX-188E/Opdivo         Recurrent HNSCC (HPV16)         Phase 2a           Mono         -         Solid Tumor         Phase 1/2a (STM101)           COM         Temozolomide         GBM         Phase 2 (GBM201)           COM         Pembrolizumab         TNBC, HNSCC         Phase 2 (STM202)           Mono         -         GBM (n=75)         Phase 1 (NIT-104, Single dose)           COM         Temozolomide         GBM (n=75)         Phase 1 (NIT-104, Single dose)           COM         Temozolomide         GBM (n=75)         Phase 1 (NIT-104, Single dose)           COM         Temozolomide         GBM (n=76)         Phase 1/2 (NIT-107)           COM         Tecentriq®         High risk skin cancer         Phase 1b/2a (NIT-106)           TNBC, Lung, Pancreatic, Colorectal cancer         Phase 1b/2a (NIT-106)         Phase 1b/2a (NIT-106)           COM         KEYTRUDA®         Colorectal cancer         Phase 1b/2a (NIT-110), KEYNOTE-A60           COM         Opdivo®         Gastric, GEJ, and Esophageal Adenocarcinomas         Phase 2 (NIT-109)           COM         Tecentriq®         NSCLC, Non-Small C	COM         KEYTRUDA®         TNBC         Phase 1b/2, KEYNOTE-899           COM         Avastin         Recurrent GBM         Phase 2           COM         GX-188E/Opdivo         Recurrent HNSCC (HPV16)         Phase 2a           Mono         -         Solid Tumor         Phase 1/2a (STM101)           COM         Temozolomide         GBM         Phase 2 (GBM201)           COM         Temozolomide         GBM         Phase 2 (STM202)           Mono         -         GBM (n=75)         Phase 1 (NIT-104, Single dose)           COM         Temozolomide         GBM (n=46)         Phase 1/2 (NIT-004, Single dose)           COM         Tecentriq®         High risk skin cancer         Phase 1b/2a (NIT-106)           COM         TNBC, Lung, Pancreatic, Colorectal cancer         Phase 1b/2a (NIT-106)           COM         KEYTRUDA®         TNBC, Lung, Pancreatic, Colorectal cancer         Phase 1b/2a (NIT-110), KEYNOTE-A60           COM         Opdivo®         Gastric, GEJ, and Esophageal Adenocarcinomas         Phase 2 (NIT-119)           COM         Tecentriq®         NSCLC, Non-Small Cell Lung Cancer         Phase 2 (NIT-119)           Mono         -         Recurrent GBM         Phase 1 (NIT-115)           Mono         -         Kaposi's sarcoma	Type Treatment Indication Preclinical Phase 1 Phase 2 Phase 3 Part COM KEYTRUDA® TNBC Phase 1b/2, KEYNOTE-899

# **GX-I7:** the only stable and long-acting IL-7 agent

- GX-I7 amplifies T cell count which is key to the cancer immunotherapy
- GX-I7 injection to solid tumor patients, ALC, CD3+, CD4+, and CD8+ T cell all increased.
   (2019, Nov. SITC)



Source: Poster Presentation SITC 2019



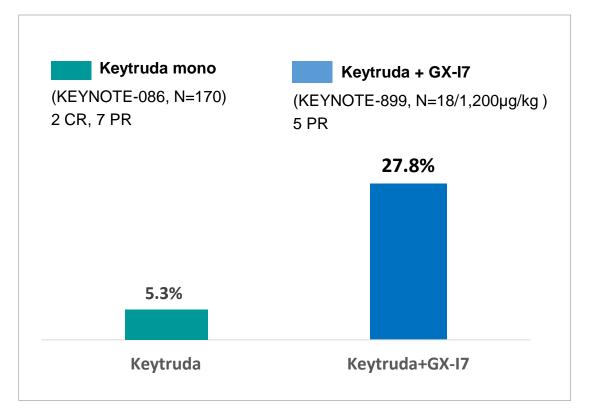
# GX-I7 (NT-I7): Promising Efficacy and Safety in mTNBC

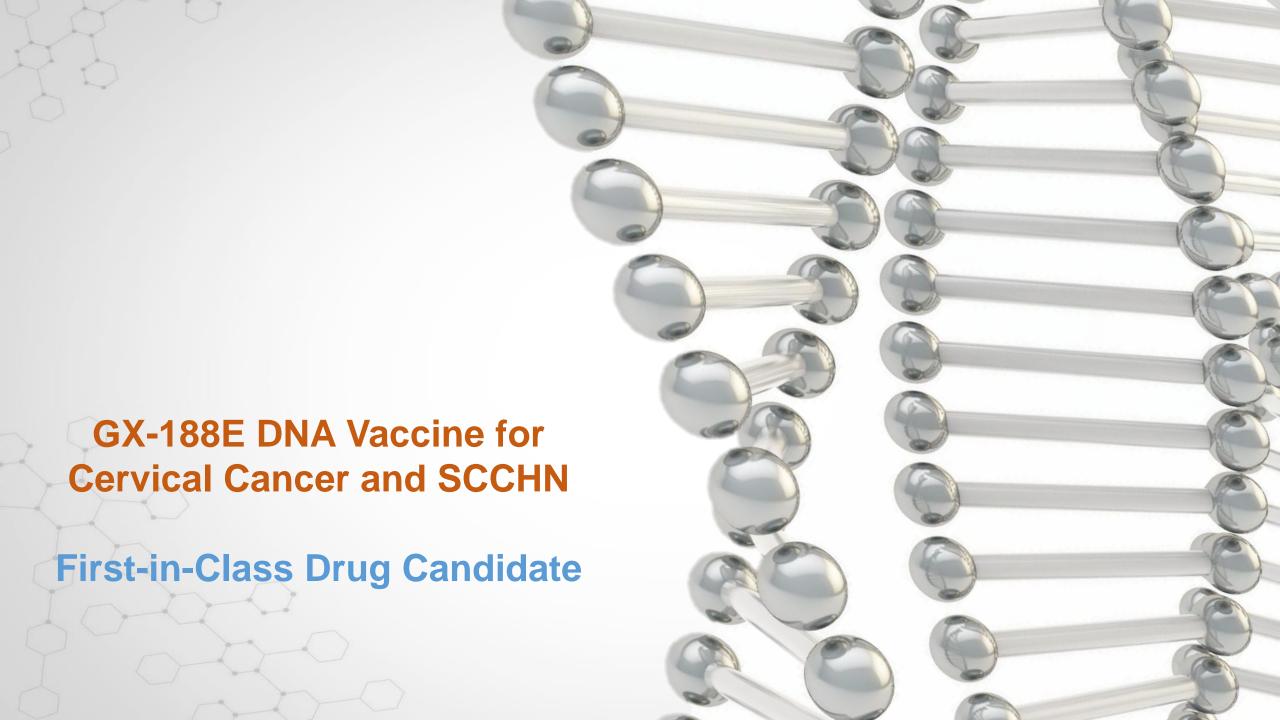
- **Top-line results** of phase 1b/2 study of GX-I7 plus pembrolizumab in patients with R/R mTNBC to be presented at **ASCO June 2022** 
  - Interim analysis(n=36) reported (KEYNOTE-899) at SITC in November 2020; 1,200ug/kg dose of GX-I7 combo with pembro showed ORR 27.8 %
- SITC 2021 Interim analysis: GBM Ph1b Combo with Chemo & colorectal cancer Ph2a Keytruda Combo. (NT-I7)

#### Ph2 Interim Result in mTNBC

Response (RECIST v1.1)	GX-I7/Pembrolizumab Simultaneous Treatment (N=36)								
N (%)	720 μg/kg	960 μg/kg	1,200 μg/kg	1,440 μg/kg					
ORR	1 (16.7)	1 (16.7)	5 (27.8)	-					
CR	-	-	-	-					
PR	1 (16.7)	1 (16.7)	5 (27.8)	-					
SD	1 (16.7)	2 (33.3)	3 (16.7)	1 (16.7)					
PD	4 (66.7)	3 (50.0)	10 (55.6)	5 (83.3)					
DCR	3 (50.0)	4 (66.7)	8 (44.4)	1 (16.7)					

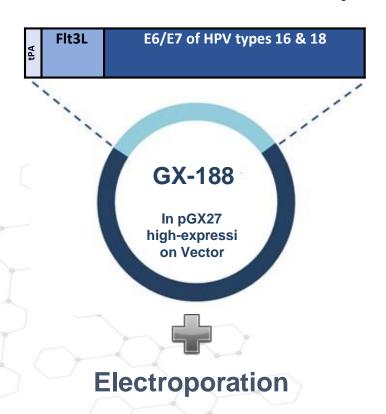
Source: SITC 2020 Poster Presentation

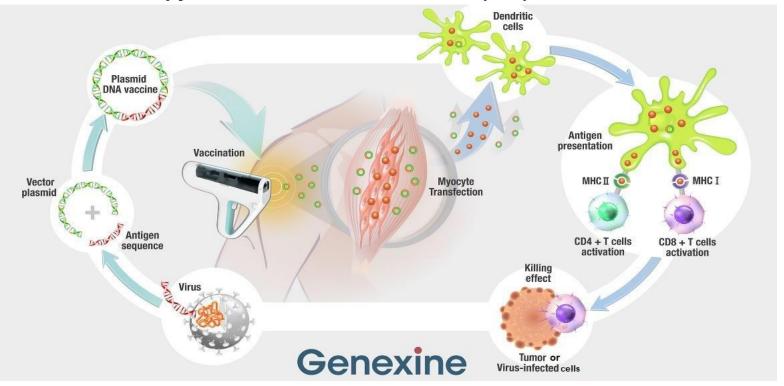




# GX-188E: Therapeutic DNA Vaccine against HPV-based diseases

- 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) Genexine



#### Phase 2 clinical timeline

Product/Indication	1	2	3	4	5	6	7	8	9	10	11	13	2
GX-188E + KEYTRUDA®								Тор	line r	esults			
Cervical Cancer, >2L													
(n=60)													
			ORR	_	R_W24		ORR_W24	DB lock	ESMO	TLF		CSR	CA
			W14	1 by In	vestigator		by BICR		2022				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**

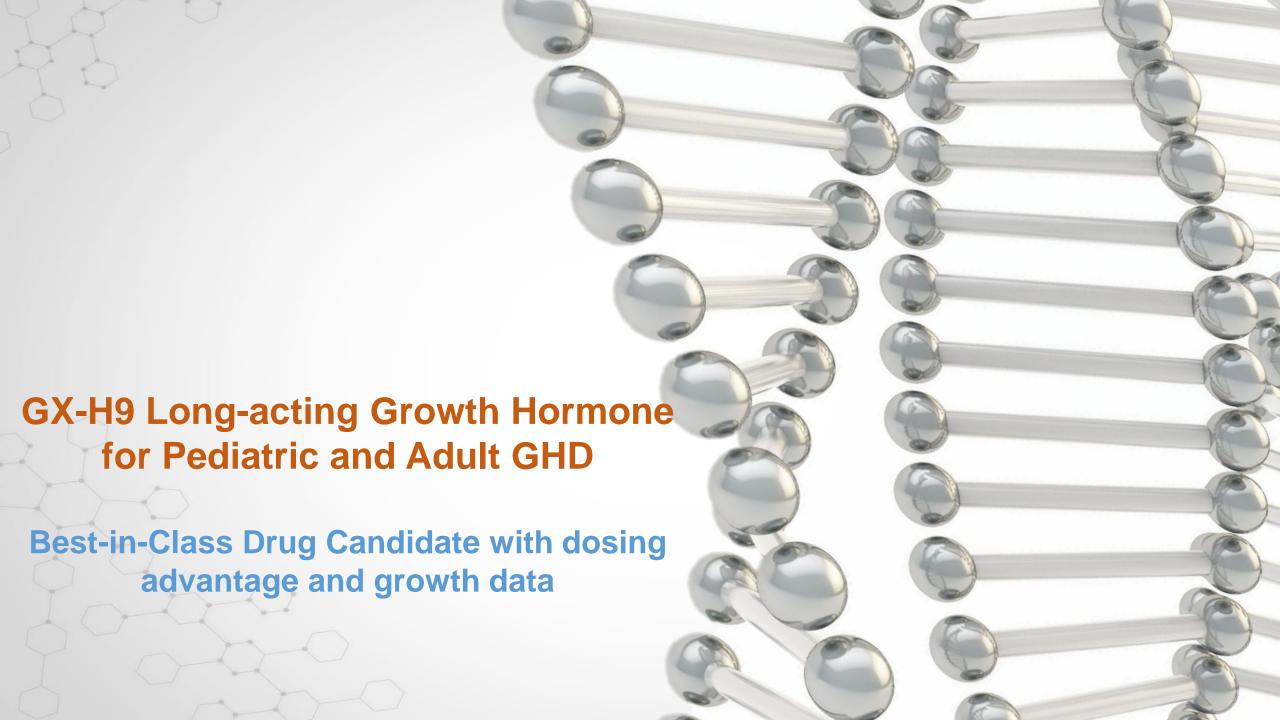
- Presentation of **top-line results** in 2H '22 (possibly ESMO)
- Submission of conditional approval in Korea, early '23
- Commercial plans:
  - On-going discussions with potential partners for Phase 3 and commercial
  - Evaluating commercial launch in Korean market by Genexine

# 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					Enro	ll & Tx.			
r/m HNSCC, <u>&gt;</u> 2L (n=21)	SCC, <u>&gt;</u> 2L HNSCC			IND Approval	Opdivo Register	in site	FPI		n safety n=3)		ORR at W9 (n=6)	LPI	
GX-188E+GX-I7 + KEYTRUDA®			IND App	./Contract					Enroll	& Tx.			
LA HNSCC (n=11)	<ul> <li>Histological PoC of triple combo in tumor microenvironment</li> </ul>			INE	) proval	FPI				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**

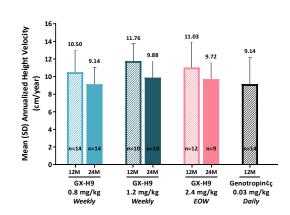
#### Ph3 Trial in China by I-Mab

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

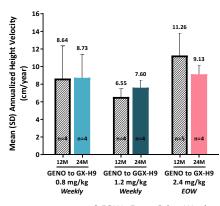
#### Growth data comparison, 1st yr vs 2nd average growth

- Weekly or bi-weekly based injection clinical data for 5 to 12 yrsold growth hormone deficiency patients.
- Growth rate continued in 2<sup>nd</sup> yr compared to 1<sup>st</sup> yr.
   (both weekly and bi-weekly)
- Growth rate continued even after switching to H9 2<sup>nd</sup> yr after injection of other growth hormone product during 1<sup>st</sup> 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**

end of 2021

#### Early stage **Global market Global development** development Genexine L/O Ph3 in China (on going) (Oct. '13) · China (excl. HK, Macau, Taiwan) Total deal \$ 100mn GX-H9 (GX-H9, G6, G3 combined) Strategic alliance with Sales milestone **Jumpcan Pharmaceutical for** BLA submission expected fast commercialization in **Growth hormone deficiency-**2024 **China** (Nov. '21) **Pediatric** Ph1 in EU. Ph2 multi-national trial Expected Launch 2025 completed **Growth hormone deficiency-adult** Ph1 in EU, Ph2 multi-national trial completed America, EU, **Co-developing with Handok** Korea, Japan **Evaluating ROW Ph3 CMC** improvement completed Genexine **Pediatric Growth** ASEAN, MENA, Purity Getting ready for mass-production hormone deficiency

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/ <b>Twice-monthly</b>	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	<b>11.76cm/yr</b> (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)

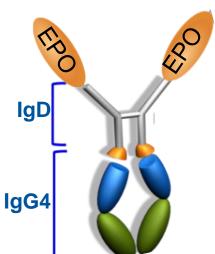
# EPO(Erythropoietin) Anemia treatment 1st Gen 3 shots/wk 1 shot/wk Epogen (Amgen) Aranesp (Amgen) Mircera (Roche) Unmet needs Sustainability & safety

#### **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



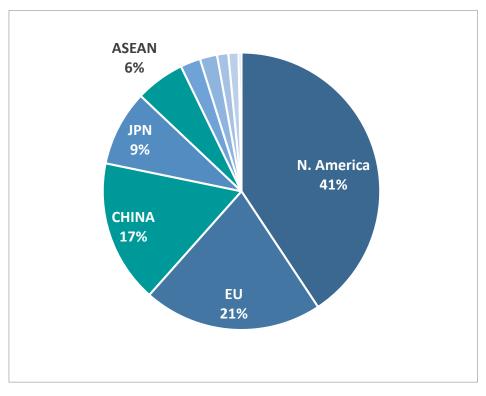
# **GX-E4** (Long-Acting EPO) Market & Competitive Landscape

- Over 60% of Global CKD Anemia market consisted of major market such as US, EU.
- ESA (Erythropoiesis Stimulating Agent) market expected \$2.9B in 2029

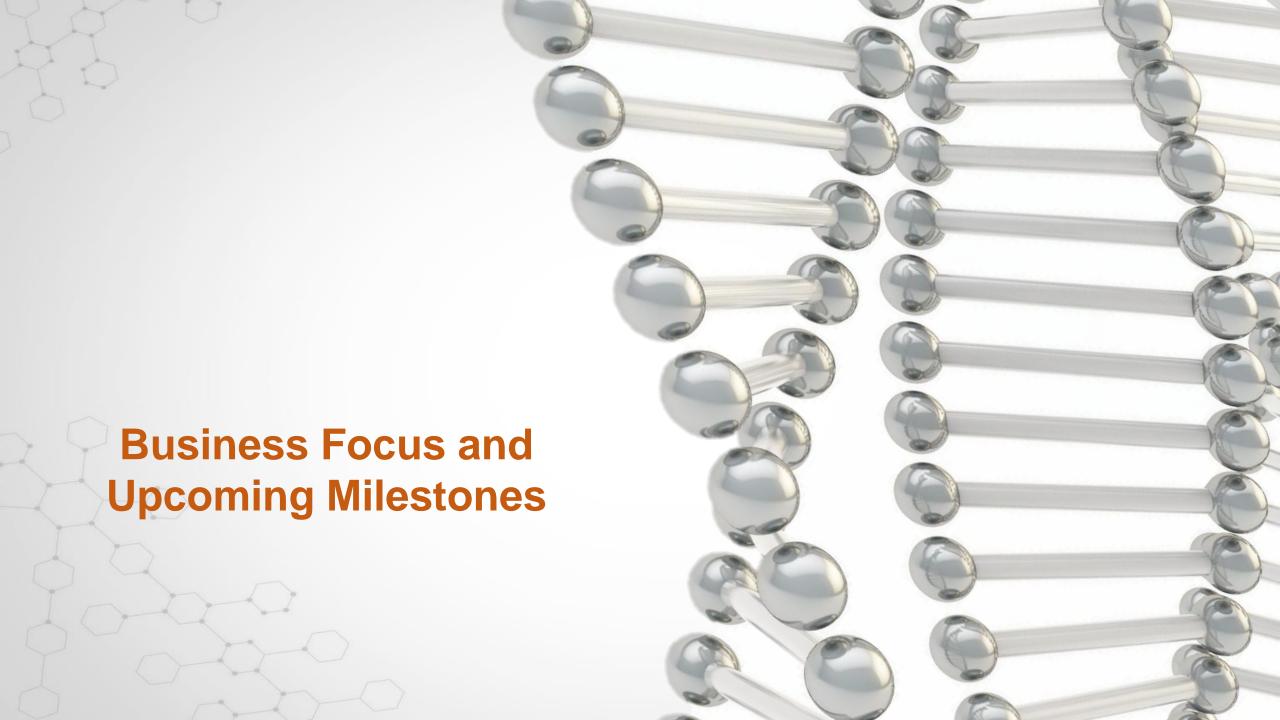
#### **Global CKD Anemia treatment market expectation**



#### **Global CKD Anemia treatment market 2027**



Reference: IMS(~2017) + Global Data(HIF-PHi) + Roche Data Base + VIFOR annual report + Amgen annual report





# Genexine leverages global development via strategic partnerships

Contract Date	Partner Company	Product	Territory
2014.07	BSK	GX-188E	China
2015.06	NeoImmuneTech	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's Commercialization Plan**

## Multiple BLA submissions over next 5 years

2023		2024-2025		2025-
GX-188E +Keytruda® (conditional approval)	<b>GX-I7</b> (NT-I7) +Keytruda® (conditional approval)	GX-E4	GX-H9	<b>GX-I7</b> +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
Dhoo 2	Dhana 2	Dhaga 2	Dhaga 2	Dhaga 2
Phase 2 (Korea)	Phase 2 (Korea/US)	Phase 3 (Asia)	Phase 3 (China)	Phase 3 (China)

# **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

