

Introduction of JD BIOSCIENCE

JD BIOSCIENCE

November 2021



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- Overview
- Members and organization
- Vision, mission and goals
- History
- Business model



Name	JD Bioscience Inc.	Pipelines	 Modality: small molecule-based novel drug candidates Indications: metabolic diseases (NASH, IBD, heart disease etc.)
CEO	Ahn, Jin Hee	Business model	 Commercialization of first-in-class drug candidates Collaborative research with pharmaceutical companies
Date of establishment	31 July 2017	Number of employees	24 members (> 20 researchers)
Web page	www.jdbiosci.com	Locations	 Gwangju, South Korea (headquarters, research institute) Seoul, South Korea (business development, regulatory affair units)

Medicinal chemistry



Ahn, Jin Hee Ph.D. Chief executive officer Medicinal chemistry



Kim, Doo Seop Ph.D. Executive advisor Medicinal chemistry

Target discovery



Kim, Hail M.D., Ph.D. Target discovery, mechanism of action, and efficacy tests

Lee, In-Kyu M.D., Ph.D. Target discovery, mechanism of action, and efficacy tests

Stability testing of API



Myung Ae Bae Ph.D. Pharmacokinetics and druggability

Scientific Advisory Board



"To discover novel therapeutics for metabolic disease with unmet medical needs to help people live longer and healthier"



- 2017~present Founder & CEO, JD Bioscience
- 2016~present Professor, GIST
- 2000~2016 Principal researcher, KRICT
- 1998~2000 Postdoc, Chemistry, UC Berkeley
- Ahn, Jin hee



2001

2000

2000

- 1993~1997 Ph.D., Chemistry Sogang Univ.
- 2019~present Chief Director, JD Bioscience
- 2009~2018 Vice president & CTO, Kainos Medicine
- 1990~2009 Chief investigator, Merck & Co.
- 1988~1990 Postdoc, Bioorganic Chemistry, Columbia Univ.

2007

DPP-IV

★ L/O

2008

1984~1988 Ph.D., Organic Chemistry, Univ. of Pittsburg Kim, Doo seop

Kim, Doo Seop

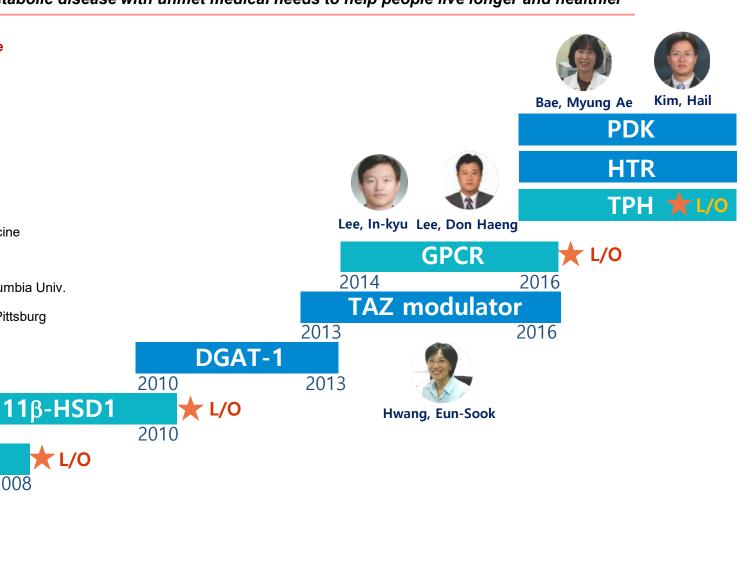
2005

2004

2004

PPARγ

PTP-1B





Key members



- 2021~present BD director, JD Bioscience ٠
- 2015~2021 Technology licensing manager, GIST
- 2013~2014 Researcher, KRIBB
- 2008~2013 Ph.D./post-doc, Biology, Freiburg University Song, Sungmin •



Lee, Hee jong



- Pagire, Haushabhau



Lee, Eun young



- 2017~Present Senior manager, JD Bioscience
- 2015~2019 M.S. Completion, Chungnam National Univ.

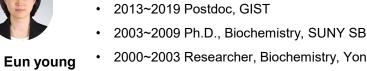
2000~2003 Researcher, Biochemistry, Yonsei Univ.

- 2009~2011 Researcher, LG Life Sciences Ltd.,
- 2001~2009 Researcher, KRICT KCB

- 2019~ present Senior researcher, JD Bioscience • 2017~2019 Researcher, Bioqure IMS
- 2013~2017 Researcher, Chodang Pharm. Co. •
- 2000~2012 Researcher, SJ Biomed
- 2002~2011 Ph.D., Biochemistry, Hanyang Univ.
- 2019~ present Senior researcher, JD Bioscience
- 2016~2019 Postdoc, GIST
- 2011~2016 Ph.D., Medicinal chemistry, UST

• 2019~ present Senior researcher, JD Bioscience

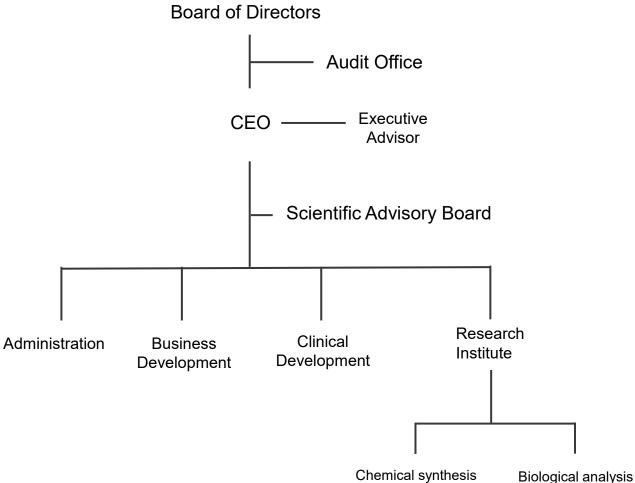
2006~2011 Researcher, APDC •







Organization Chart





Vision

To be the world's top pharmaceutical company in the field of metabolic disease

Our Goal

- · Surveying unmet medical needs
- \cdot Searching for novel biomarkers that meet unmet medical needs
- · Initiating first-in-class drug development using novel biomarkers
- · Making technology licensing deal
- Providing medicinal chemistry services to partners
- · Accumulating knowhow and experience for novel drug development
- · Creating a stable sales revenue

· NAFLD/NASH

- · Inflammatory bowel disease
- · Heart disease and other diseases

Our Mission

"To discover novel therapeutics for metabolic disease with unmet medical needs to help people live longer and healthier"

Since 2017 Developing drug candidates for Metabolic diseases

Since 2020

Expanding drug

pipeline and making

global licensing deals

Since 2019

Initiating

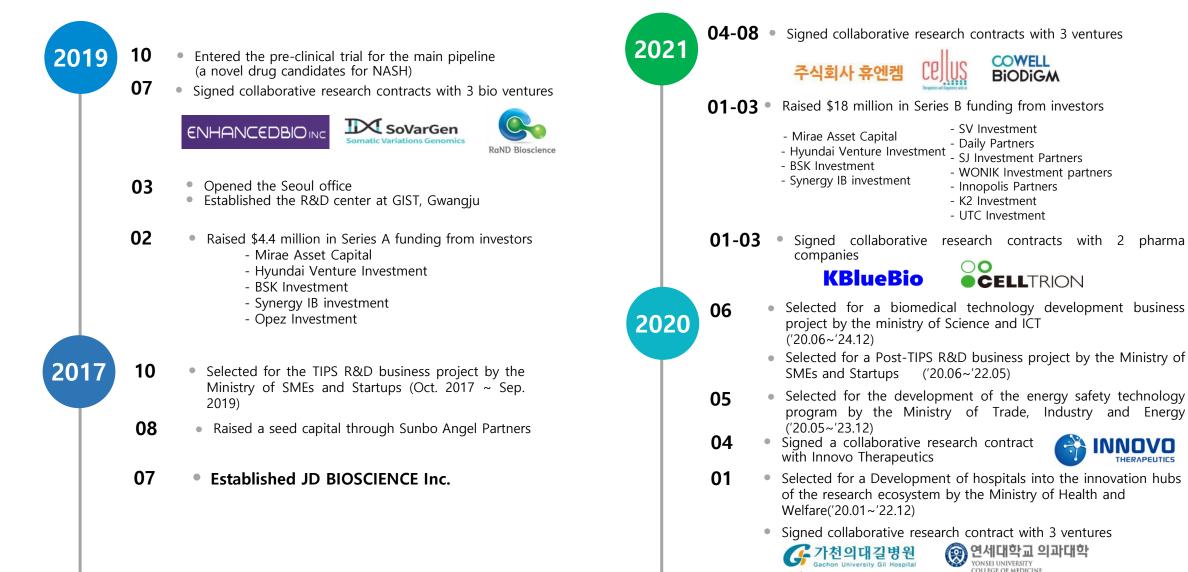
collaborative

research with bio

ventures



Company History



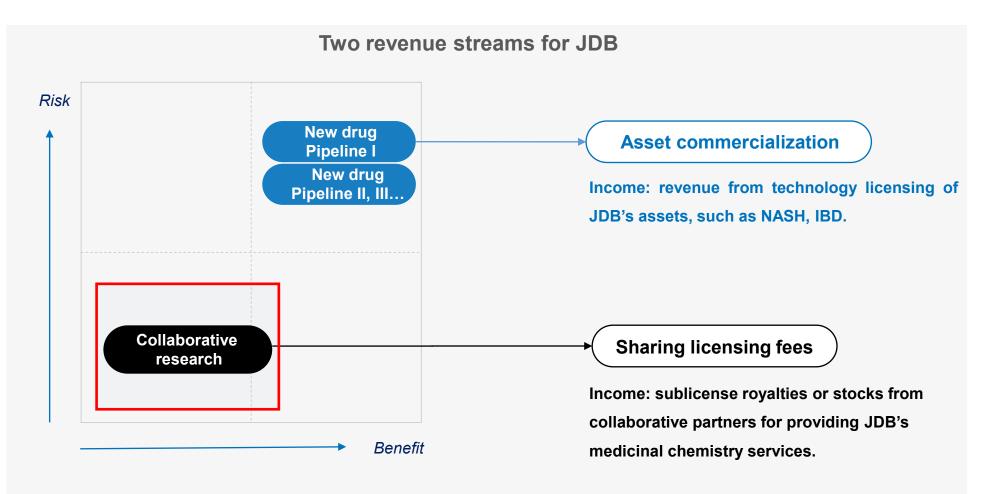
(주)라이조테크

INNOVO



Business | • Development of first-in-class drug candidates for metabolic diseases.

Strategies • Collaborative drug development with partners (JDB providing medicinal chemistry services).





2. Drug Pipelines

2-1 NASH

2-2 IBD

2-3 Heart disease

2-4 Acute pancreatitis

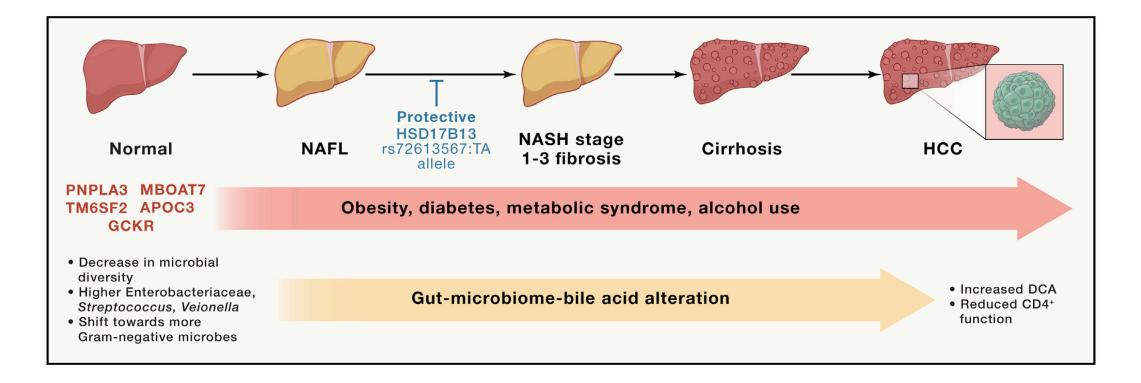
2. Drug pipeline



Pipeline	Code	Indication	Target	Discovery	Pre-clinic	Phase 1	Phase 2	Plans for BD
1	GM60106	NASH	HTR					L/O for USA or China at P1 clinical stage
	GM60186	NASH	HTR					Backup of GM60106
	GM-X3	-X3 Inflammation / PDK					L/O for USA or China	
2	(=M_¥2	Pancreatitis/ Heart disease	PDK					at preclinical stage
3	GM-X4	NASH / TNBC	confidential					L/O for USA or China at P2 clinical stage
4	-	Sepsis/ Septic shock	confidential					Commercialize in USA and Korea market
5	-	NASH	confidential					Commercialize in Korea market

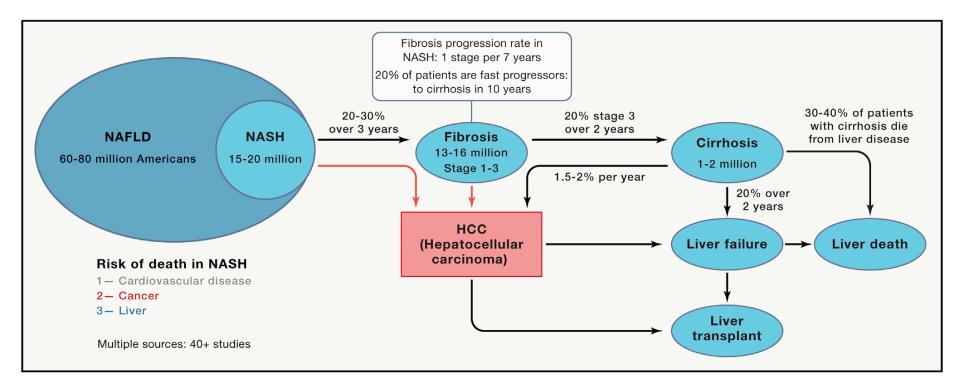
Risk factors and progression of NASH

- NASH, an advanced form of non-alcoholic fatty liver disease (NAFLD), can progress to liver fibrosis, cirrhosis, and hepatocellular carcinoma
- Genetic factors, environmental factors, and microbiome alterations are mainly involved in disease progression



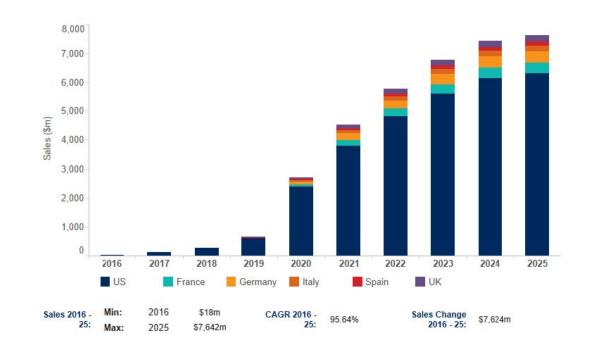
Drug market of NASH

- Experts estimated that 24% of U.S. adults have NAFLD and more than 6.5% of them have NASH (NIH report, 2021). 20~ 30% of patients with NASH progress to liver fibrosis in 7 years, and 20% of them progress to cirrhosis in two years.
- However, since no drugs for NASH are commercially available, off-label drug use is only available treatment option



NASH market overview

- The current market size of NASH treatment is less than \$1 billion due to a lack of drug options. The sale volume of NASH drugs is expected to grow rapidly, however, after the first drug for NASH is approved by FDA, initiating sales in the market.
- The number of large licensing deals for NASH assets (> \$100 million) has increased recently, and majority of these assets are small molecules.





DATAMONITOR Healthcare Jan. 2017

Year	Licensor	Licensee	Active ingredient	Stage	Licensing fees
2014. 12.	Phenex	Gilead	FXR agonist	P2	\$470M
2015. 05.	Pharmaxis	В.І.	SSAO/VAP-1	P1	\$600M (upfront: \$31M)
2016. 09.	Akarna Therapeutics	Allergan	FXR agonist	P.C.	Unknown (upfront: \$50M)
2016. 09.	Tobira Therapeutics	Allergan	CCR2/5 antagonist	P2	\$1.7B
2019. 01.	Yuhan Corp.	Gilead	Small molecules (undisclosed)	P.C.	\$785M (upfront: \$15M)
2019. 07.	Yuhan Corp.	B.I.	GLP-1/FGF21 dual agonist	P.C.	\$870M (upfront: \$40M
2019.12.	Pliant Therapeutics	Novartis	αVβ1 integrin agonist	P.C.	Undisclosed (upfront: \$80M)
2020. 08.	Thera Biosciences	LG Chem	VAP-1 antagonist	P.C.	\$350M
2020. 08.	Hanmi Pharma	Merck & Co.	GLP-1/GCG dual agonist	P2	\$870M (upfront: \$10M)
2020. 11.	Enleofen	B.I.	IL-11 AB	P.C.	\$1B
2020. 12.	Aligos Therapeutcis	Merck & Co.	Oligo nucleotide	P1	\$458M

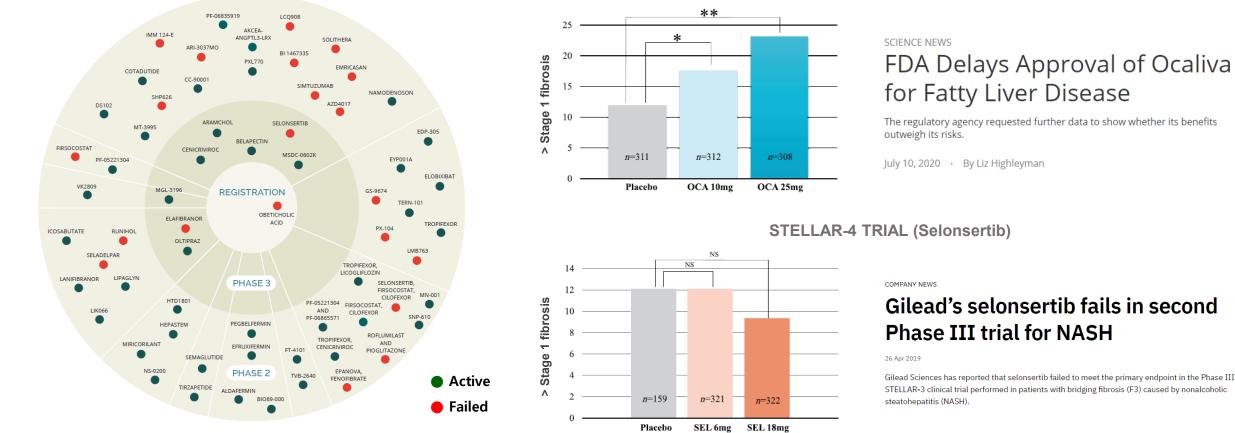
Licensing deals of NASH assets from 2014 to 2020



Major drug candidates for NASH

- More than 100 drug candidates are currently in clinical trials, but no drugs have been approved yet.
- Ocaliva significantly improves hepatic fibrosis and hepatic steatosis, but these therapeutic effects did not outweigh its risk of significant

side effects in clinical trials, and selonsertib failed to show significantly improved hepatic fibrosis in a phase III clinical trial.



REGENERATE STUDY (Obeticholic acid)

Back Bay Life Science Advisors Dec. 2020

Sumida and Nakajima, 2019

Combination therapy for NASH

- Since NASH is a multifaceted disease caused by various cellular and signaling events, combination therapies that can target multiple cellular signaling pathways might be crucial for developing effective drugs for NASH.
- Hence, diverse combination studies are at the clinical stage, and we are also seeking opportunities to develop additional combination therapies with drug candidates that can strongly suppressing lipogenesis.

"We expect that treatment response can be enhanced by strategically combining multiple agents targeting distinct metabolic pathways to not only achieve resolution of NASH and improvement in fibrosis but also a reduction in cardiovascular disease risk and future risk of cancer."

- Obeticholic acid (FXR agonist, Intercept) + Bezafibrate (pan-PPAR agonist, Prior art compound)

 The combinatorial efficacy will be studied.
- 2. Cenicriviroc (CCR2/5 receptor inhibitor, Allergan) + Tropifexor (FXR agonist, Novartis)

 Phase II study is ongoing *combines CVC's anti-inflammatory effects with Tropifexor's anti-lipogenesis profile.
- 3. Semaglutide (GLP-1 agonist, Novo Nordisk) + Cilofexor(FXR agonist, Gilead) + Firsocostat(ACC inhibitor, Gilead)
 The Phase IIa study was completed and Phase IIb patients will be recruited at the end of 2021.
- **4. Licogliflozin (SGLT1/2 inhibitor, Novartis) + Tropifexor (FXR agonist, Novartis)** - Patients currently recruited for the Phase II study.
- 5. PF-05221304 (ACC1/2 inhibitor, Pfizer) + PF-06865571 (DGAT2 inhibitor, Pfizer) - Phase II recruitment completed.

Loomba and Shulman, 2021

Mechanism of Action (MOA)

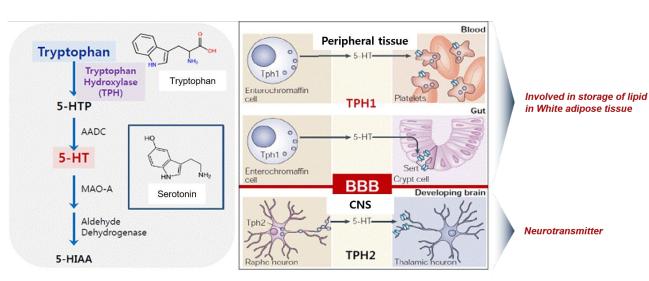
- In a mouse model, a high-fat diet (HFD) increases both serotonin (5-hydroxytryptophan, 5-HT) levels in the plasma levels (portal blood) and serotonin receptor 2a (5-HT receptor 2a, Htr2a) expressions in the liver.
- Activation of the serotonin receptor induces lipogenic gene expression, which in turn enhances lipid storage in hepatocytes.

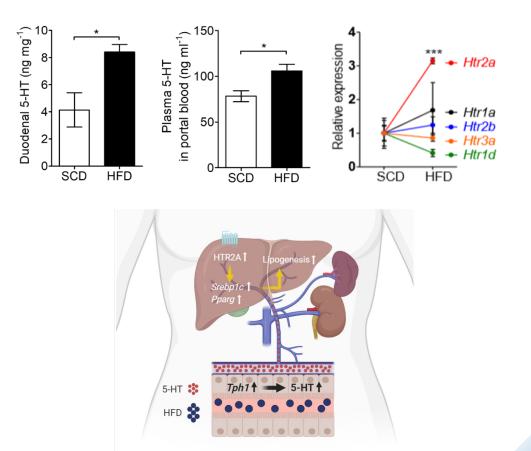
Article | Open Access | Published: 16 November 2018

Serotonin signals through a gut-liver axis to regulate hepatic steatosis

Wonsuk Choi, Jun Namkung, Inseon Hwang, Hyeongseok Kim, Ajin Lim, Hye Jung Park, Hye Won Lee, Kwang-Hyub Han, Seongyeol Park, Ji-Seon Jeong, Geul Bang, Young Hwan Kim, Vijay K. Yadav, Gerard Karsenty, Young Seok Ju, Chan Choi, Jae Myoung Suh, Jun Yong Park , Sangkyu Park & & Hail Kim

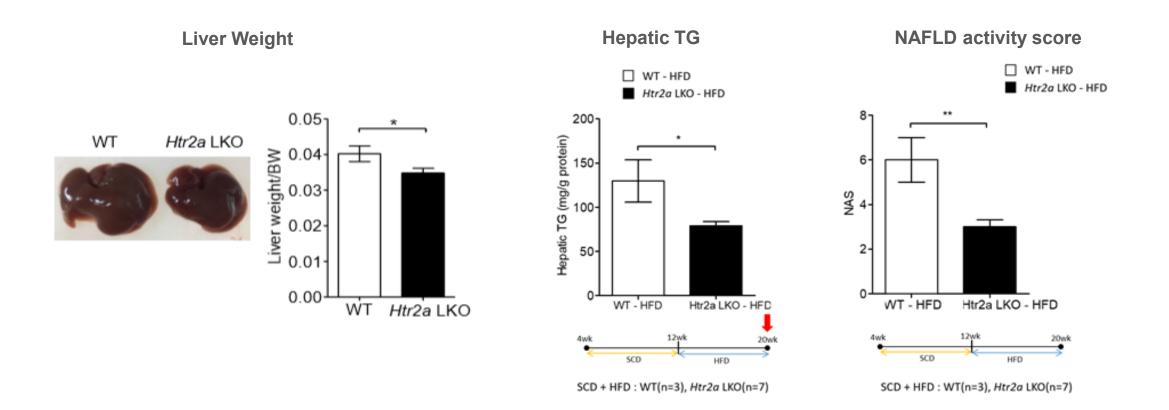
Nature Communications **9**, Article number: 4824 (2018) Cite this article





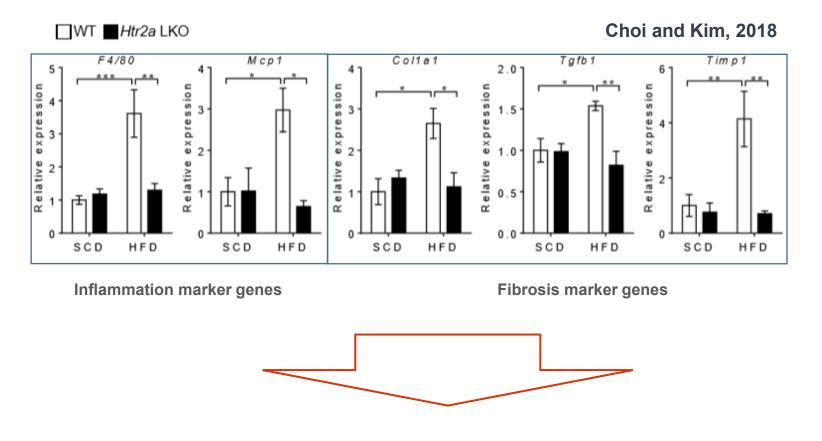
Mechanism of Action

• In liver-specific *Htr2a* knockout mice, suppression of HTR2a significantly reduced hepatic steatosis and the NAFLD activity score. This result clearly indicates that HTR2a is important for hepatic steatosis.



Mechanism of Action

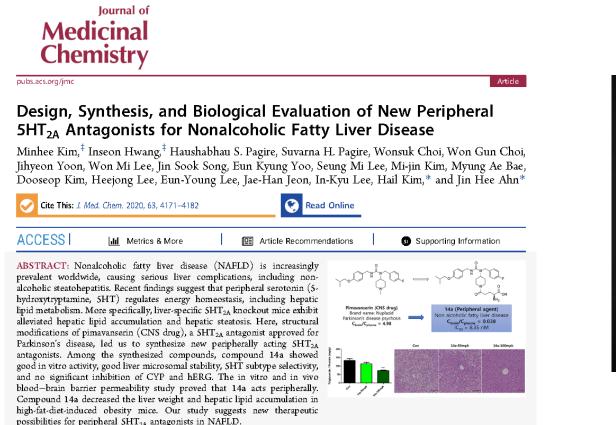
• In liver-specific *Htr2a* knockout mice, suppression of *Htr2a* reduces inflammation and fibrosis-related gene expression in the liver transcriptome, indicating that 5-HT signaling is important for inflammation and fibrosis in the liver.

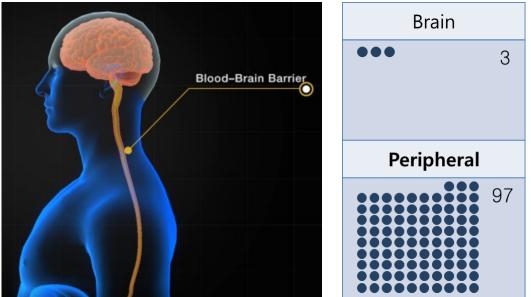


The synthesis of an Htr2a antagonist might provide a potent drug candidate for NASH and liver fibrosis

Synthesis of GM60106

• We synthesized a novel compound (GM60106) that can effectively reduce lipogenesis, inflammation, and fibrosis in the liver, while minimizing blood-brain barrier (BBB) permeability, so that it would not induce any BBB-mediated side effects.





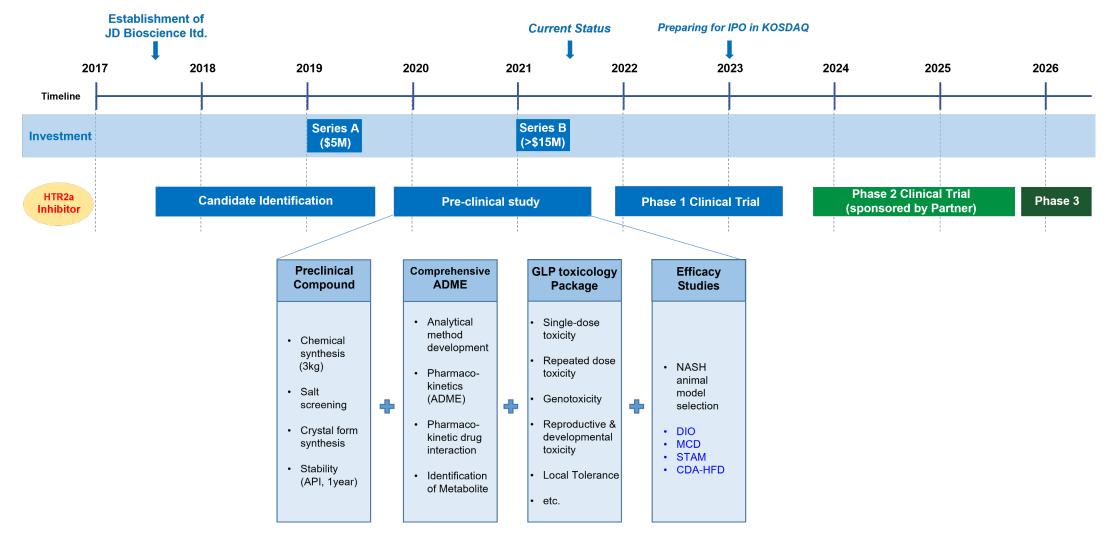
Chemical profile of GM60106

• Chemical stability, in vivo safety, in vivo efficacy of GM60106 were analyzed before proceeding to pre-clinical study.

Code	<i>In vitro</i> (cellular assay)	Chemical stability	Hepatocyte stability (3 hrs)	Plasma stability	CYP inhibition (at 10 µM)									
GM-60106	14 nM	99.8 % (25 °C, 3 weeks) 99.6 % (60 °C, 3 weeks) No form change	94 % (human) 88.5 % (dog) 84.6 % (monkey) 68.9 % (rat) 75.0 % (mouse)	>99.9 % (m) >99.9 %(r) >98.6 ± 11.7 %(h) (% remaining after 4 hrs)	1A2: < 1 % 2C9: 3.17 % 2C19: 6.83 % 2D6: 26.3 % 3A4: 17.6 %		P	re-clinical						
Cytotoxicity (IC ₅₀)	Solubility	Permeability (PAMPA)	PPB/CLogP	<i>In vivo</i> PK (rat) with crystalline form	BBB permeability		\geq '	Study						
VERO > 100 μM HFL-1 > 100 μM L929 > 100 μM NIH3T3 > 100 μM CHO-K1 > 100 μM	1.3 mg/mL pH = 6.8 Crystalline	-4.03 ± 0.042 (grade: High)	97.5 % (m) 96.7 % (r) 97.1 % (h)	IV (5mpk) Oral (10mpk) T1/2: 4.14 h AUC: 1.59 ug.h/ml CL: 2.59 L/h/kg V: 4.68 L/kg	0.02±0.09 (DIO mice) C _{brain} /C _{plasma} , B/P ratio after 2 hr oral injection			Study						
	Free form		/3.16	BA 41 %		Parameter	IV, 5mpk	PO, 10mpk						
In vivo efficacy						T _{max} (h) C _{max} (μg/mL)	NA NA	1.83 ± 1.89 0.18 ± 0.06						
in normal with	<i>In vivo</i> efficacy in DIO mice	NASH in MCD diet in db/db mice	STAM mice	CDA HFD	AMES/ Acute Toxicity	$T_{1/2}(h)$	1.44 ± 0.09	4.14 ± 0.48						
high fat			Acute Toxicity								Acute in	AUC _{last} (µg⋅h/mL)	1.91 ± 0.20	1.30 ± 0.27
	Body weight gain reduction,	reduction Reduced Reduc		Reduced percentage		AUC _∞ (µg·h/mL)	1.95 ± 0.21	1.59 ± 0.19						
Body weight gain			Reduced		Negative /	CL (L/h/kg)	2.59 ± 0.29	NA						
reduction, Reduced fat	Reduced fat	inflammation, fibrosis and fat	inflammation, fibrosis, and	of fibrotic area and expression levels of		V _{ss} (L/kg)	4.68 ± 0.16	NA						
accumulation	accumulation in liver	accumulation in liver	hepatic steatosis	fibrosis marker genes	LD ₅₀ > 1000 mpk	F _∞ (%)	NA	40.80						

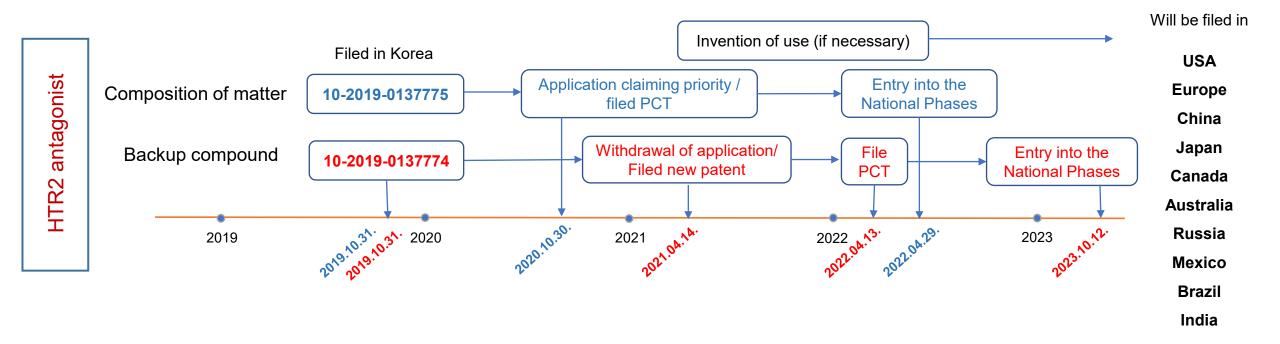
Plan for pre-clinical and clinical studies

• We completed a pre-clinical study of GM60106 in August 2021 and are preparing an IND application to the FDA for a Phase I clinical study



Intellectual property management plan

- A patent for a composition of matter was filed in 2019 and will enter national phases in 2022.
- A backup compound GM60106 was also prepared, and the patent was filed in 2021.



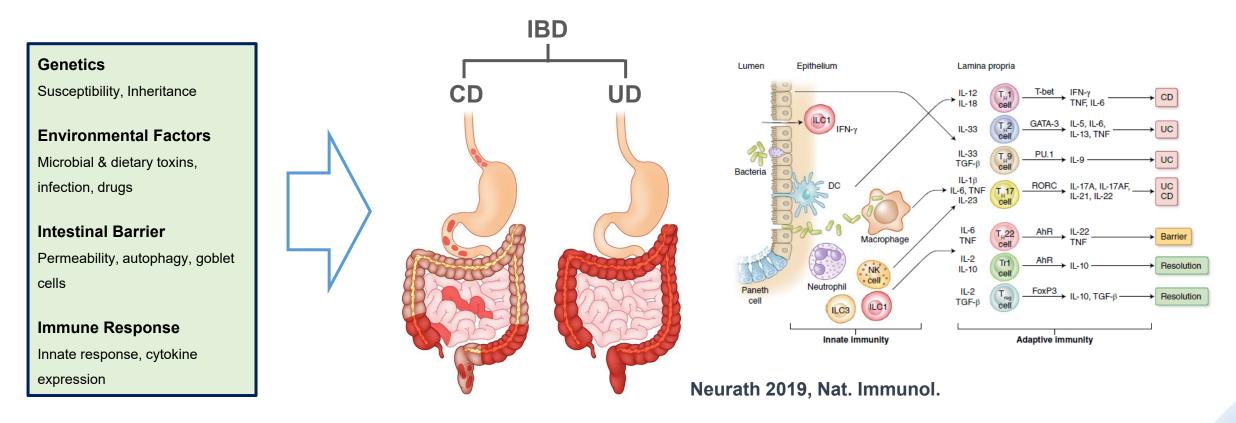


Summary of our NASH pipeline

- We found unknown roles for Htr receptor-mediated serotonin signaling in liver, which are related to the progression of NASH and liver fibrosis.
- Based on these findings, we synthesized a chemical compound (GM60106) that can directly inhibit Htr2a receptors on liver cells.
- The in vivo efficacy of GM60106 was validated in four different NASH mouse models: DIO, STAM, MCD, and CDA-HFD.
- A pre-clinical study of GM60106 was completed, and proprietary compounds are protected with patent applications.
- Currently, we are preparing an application to the US FDA for a first-in-class human trial of GM60106.

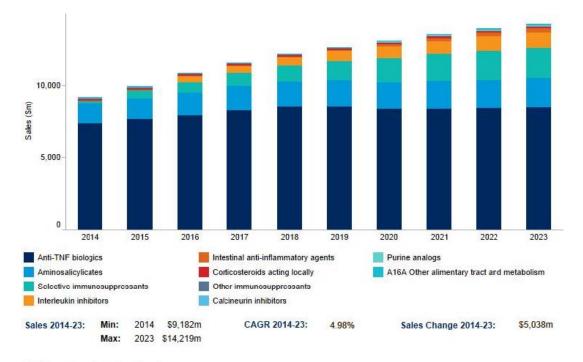
Risk factor and causes of IBD

- IBD, including ulcerative colitis (UC) and crohn's disease (CD) can be caused by genetic and environmental factors and can induces uncontrolled activation of intestinal immune cells.
- Pro-inflammatory cytokines, such as TNF, IL-6, produced by the activated immune cells are suggested to drive the perpetuation of inflammation and tissue damage.



Drug market for IBD

• IBD is a global disorder with a high incidence in developed countries (prevalence rate > 0.3%) and accelerating incidence in industrialized countries. Currently anti-TNF antibodies hold the largest market share in the IBD therapeutics market, while the market share of interleukin inhibitors is growing rapidly.



2014 to 2023 IBD drug sales in the seven countries

Licensing deals of IBD assets from 2016 to 2020

Year	Licensor	Licensee	Active ingredient	Stage	Licensing fees
2016 10.	AstraZeneca	Allergan	IL-23 AB	P2	\$1.27B (upfront: \$250M)
2017. 04.	Finch Therapeutics	Takeda	FIN-524 microbiomes	P.C.	Undisclosed (upfront: \$10M)
2017. 05.	Protagonist	J&J	IL-23 inhibitor (oral peptide)	P.C.	\$0.99B (upfront: \$50M)
2017. 09.	Janssen	Provention Bio	CSF-1R antagonist, TLR3 AB	P1/P.C.	Undisclosed
2018. 12.	Bridge Bio	Daewoong Pharma	Pelliono-1 Antagonist	P1	\$40M
2019. 04.	IFM therapeutics	Novartis	NLRP3 Antagonist portfolio	P.C.~P1	\$310M ~ \$16B
2019. 07.	Alfasigma	Innovation Pharma	Brilacidin (non-corticosteroid)	P2	\$24M + upfront
2019. 09.	Prometheus Biosciences	Takeda	(>200,000) Patient samples	Discovery	\$420
2020. 05.	Gossamer Bio	Aerpio Pharma	HIF-1a stabilizer	P.C.	\$90M (upfront: \$15M)

CAGR = compound annual growth rate

DATAMONITOR Healthcare Jan. 2016

Major drug candidates for IBD

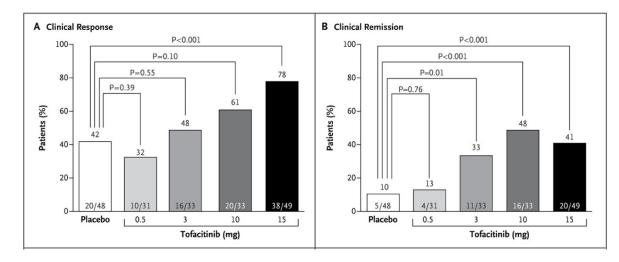
• Although antibody-based immunosuppressants have been widely used to treat IBD, the response rate of antibody treatment is rapidly falling due to alternative signaling mechanisms that contribute to resistance to antibody therapy. This offers added value to multi-cytokine blockers such as tofacitinib (Jak1 and Jak3 inhibitors) for the effective suppression of gut inflammation.

Challenges for Immunosuppressant

- Unresponsive to biologics (anti-TNFα, anti-integrin, IL12/IL23): approximately 30% of patients
- Losing response among previous responders: up to 10%/year
- Significant infectious and neoplastic side effects with current IBD medications

"The Jak1 and Jak3 inhibitor tofacitinib is effective in suppressing mucosal inflammation in UC but not in CD and has been approved for UC therapy"

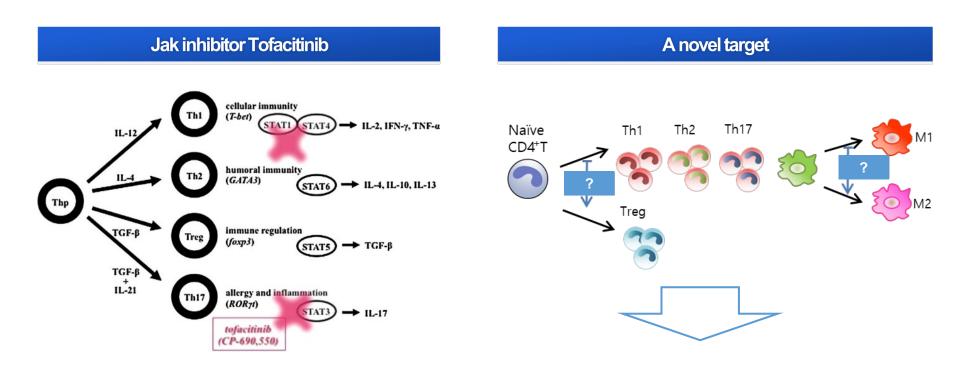
Sandborn and Wojciech, 2012



Unmet medical needs of current IBD drugs

• A commercialized multi-cytokine blocker, tofacitinib has had limited therapeutic effects because it can only suppress a limited number

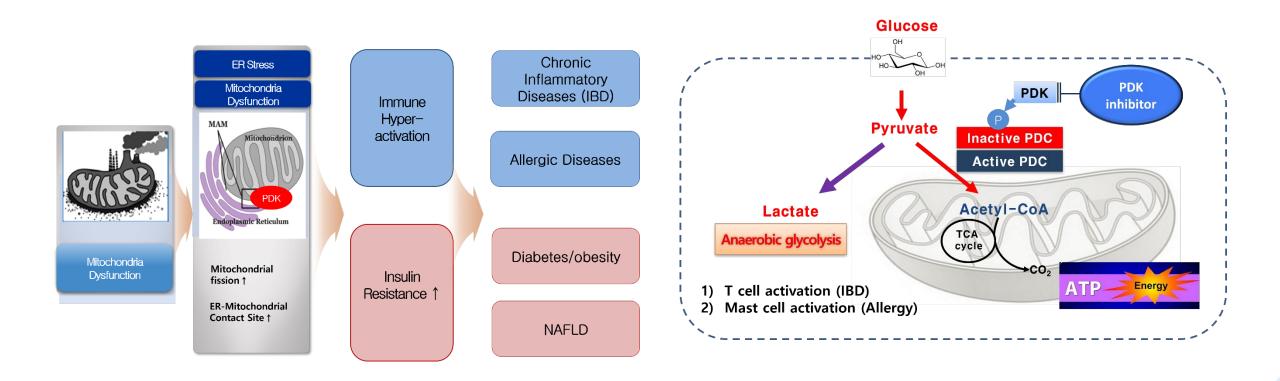
of helper T cells. Thus, we decided to discover novel targets that are involved in regulating the behaviors of a diverse range of cytokines.



Discover a novel target or targets that are important for multi-cytokine modulation

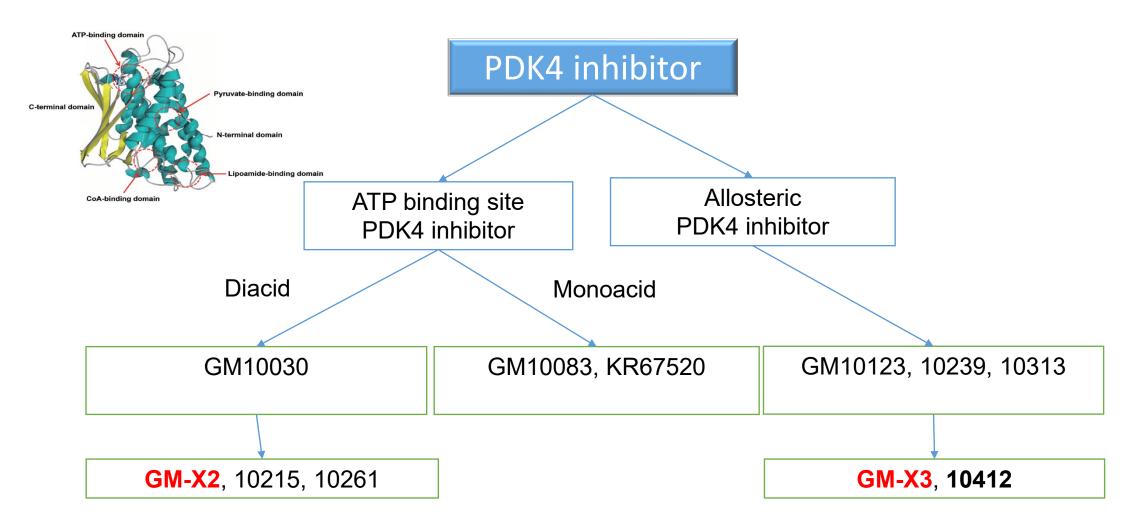
Mechanism of Action

 According to our preliminary research, pyruvate dehydrogenase kinase (PDK) can suppress the mitochondrial function of intestinal immune cells, and this leads to the induction of an uncontrolled activation of these cells. Since immune cell hyperactivation is one of the main causes of IBD progression, it is important to suppress PDK to provide an effective cure for IBD.



Synthesis of PDK inhibitors

• Our findings indicate that PDK4 inhibitors could provide a new therapeutic approach to IBD. Therefore, we synthesized both competitive and allosteric PDK4 inhibitors.



Chemical profile of GM-X3

• Chemical stability, in vivo safety, and in vivo efficacy of GM-X3 were analyzed before proceeding to a pre-clinical study.

Code	Inhibitor class	In vitro activity	In vitro (cellular assay)	Mitochondrial function
GM-X3	Allosteric inhibitor	159 nM (IC ₅₀) Phosphorylation inhibition	Inhibition of PDHE1a phosphorylation	
CYP inhibition (IC ₅₀ mM) hERG inhibition PPB		PPB	Plasma stability (4hr incubation)	In vivo PK
1A2: 33.69 2C9: 12.64 2C19: 12.18 2D6: 7.94 3A4: 7.72	23.0 % at 10 μΜ	99.3 % (m) 99.5 % (m)	Mouse 50.5 % Human: 89 %	IV (5 mpk) Oral (10 mpk) T1/2: 5.15 h AUC: 1.76 ug.h/ml (IV) AUC: 1.7 ug.h/ml (oral) BA: 48 %
In vivo anti-diabetic efficacy			Acute toxicity	
Glucose AUC reduction (OGTT), oral administration	Reduced tumor volume in xenograft mice at 10 mpk dose	Improved histological score and colon length in vivo at 1 mpk	LD50 > 1000 mpk	

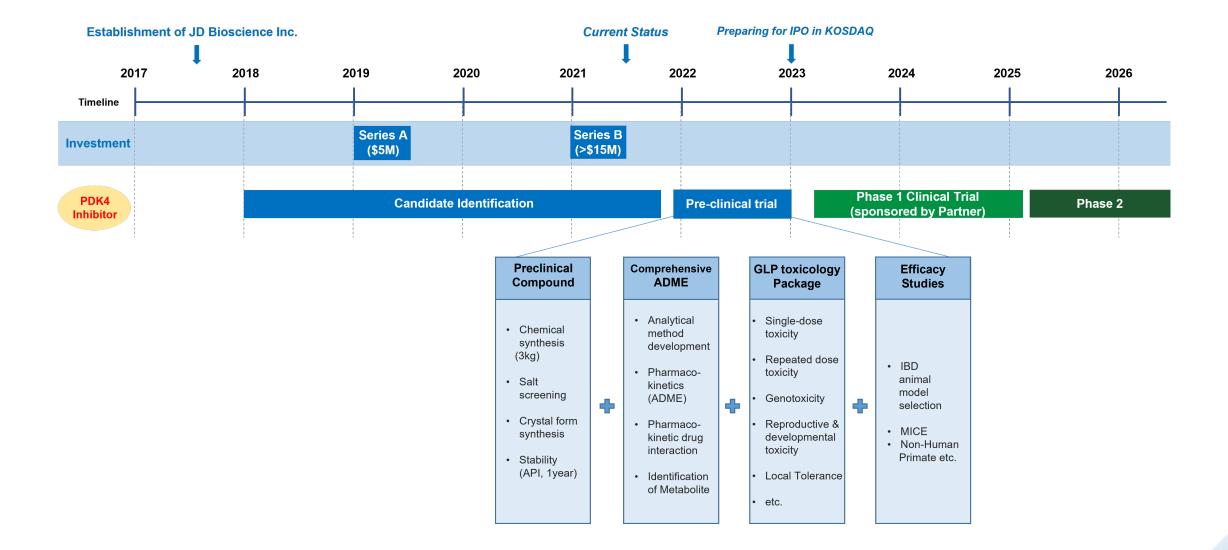
Preclinical Study

CONFIDEN



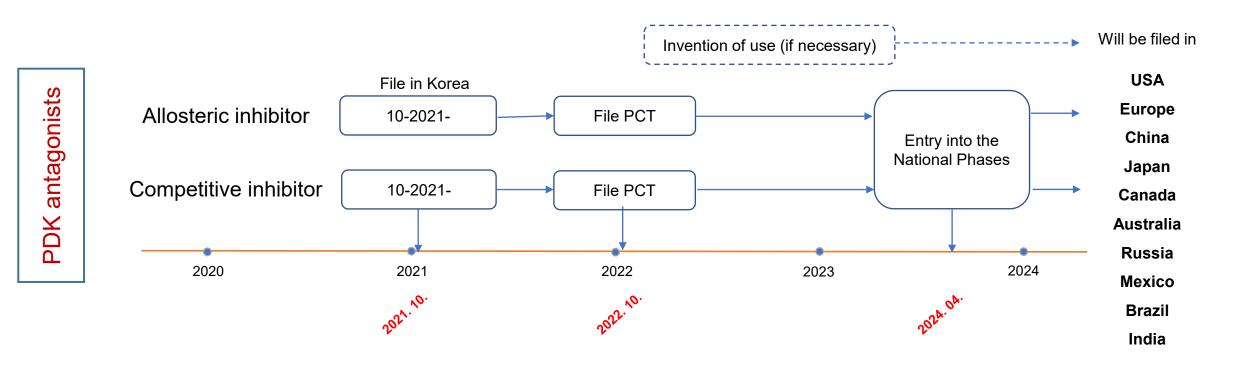
Plan for pre-clinical and clinical study

• We plan to initiate a pre-clinical trial after completing a non-GLP toxicology study.



Intellectual property management plan

• Patents for the composition of matters of both allosteric inhibitors and competitive inhibitors of PDK are being filed and will enter national phases by 2024.





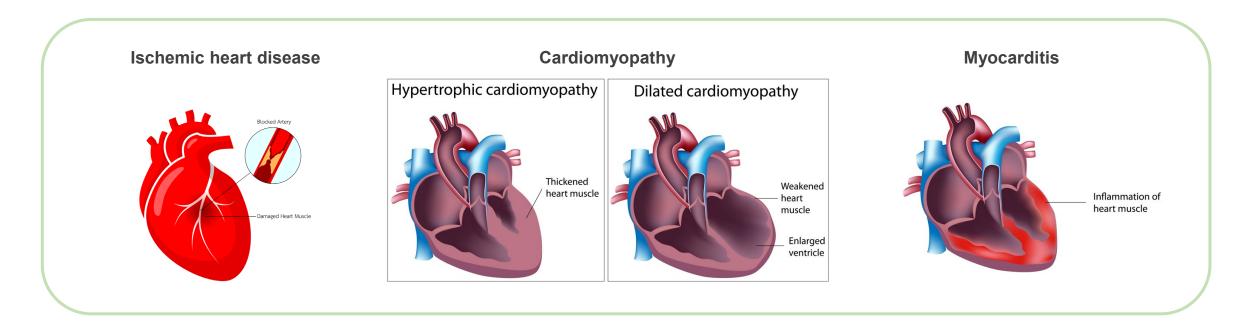
Summary of the IBD pipeline

- According to our findings, PDK4 can modulate the activity of intestinal immune cells by suppressing mitochondrial functions, indicating that PDK4 is tightly connected with IBD progression.
- Based on this finding, we synthesized both competitive and allosteric inhibitors of PDK4 to provide novel drug candidates for IBD.
- The in vivo efficacy and chemical stability of GM-X3, a potent inhibitor of PDK4, were tested, and a pre-clinical trial of GM-X3 will be initiated after finishing the current non-GLP toxicology study.
- Disease indications for PDK inhibitors will be expanded into other inflammatory diseases, such as acute pancreatitis.

2-3. Heart Disease



- Heart disease, a leading cause of death globally, can be categorized into ischemic heart disease, cardiomyopathy, and myocarditis.
- Ischemic heart disease is involved in the reduction of blood flow due to the accumulation of fatty deposits in the coronary arteries. Cardiomyopathy, including hypertrophic or dilated cardiomyopathy, is a disease of the heart muscle that can occur due to various risk factors. Finally, myocarditis is characterized by the inflammation of the heart muscle, which often occurs due to a viral infection. All of these can ultimately lead to fatal heart failure.

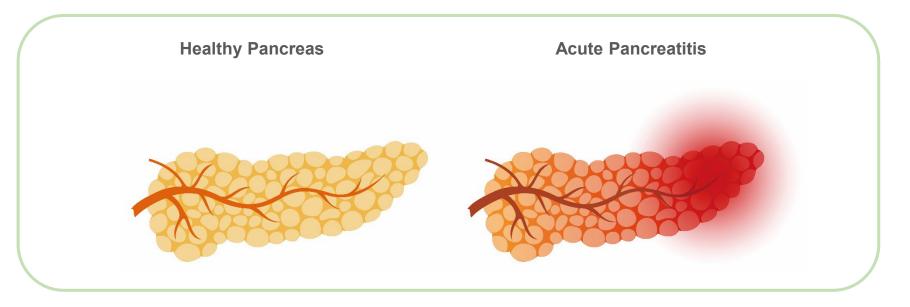


- Different types of medication are available to treat heart disease, for example, cholesterol-lowering medications, beta-blockers, nitroglycerin, and calcium channel blockers. However, none of these can rescue the function of cardiomyocytes once heart failure is in progression.
- JDB is developing a novel drug candidate for heart disease that can rescue heart function at a cellular level, and can eventually help improving heart function



Risk factor and causes of IBD

- Acute pancreatitis (AP) is characterized by the sudden inflammation of the pancreas and occurs when digestive enzymes within the pancreas are abnormally activated. The main risk factors of AP are gallstones, which make up 40% of cases, and alcohol misuse, which makes up 30% of cases. Recent findings also indicate that type 2 diabetes or smoking can increase the risk of non-gallstone-related AP.
- AP was the second-highest cause of total hospital stay and the fifth leading cause of in-hospital death in the USA in 2015. However, to date, no
- specific causal treatment for AP is available. Instead, supportive care, such as pain control, is the only available treatment.



• JDB is developing a novel drug candidate for acute pancreatitis that can effectively reduce inflammation of the pancreas by modulating mitochondrial functions in pancreatic cells.

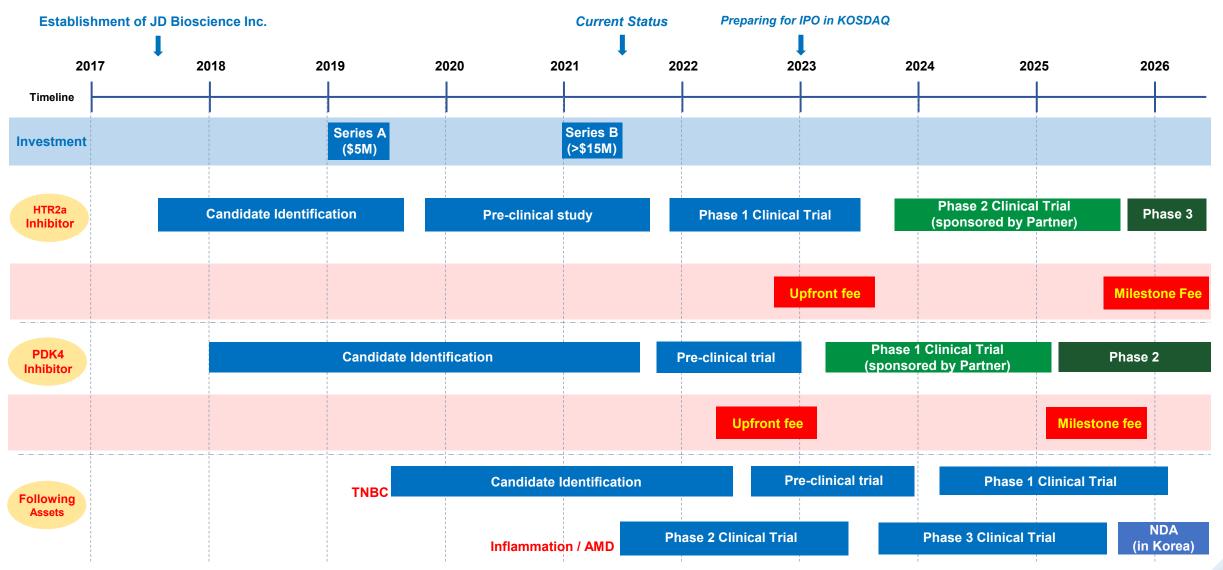
3. Business Plan



- Financial plan
- Plan for tech. commercialization
- Partnerships for collaborative research



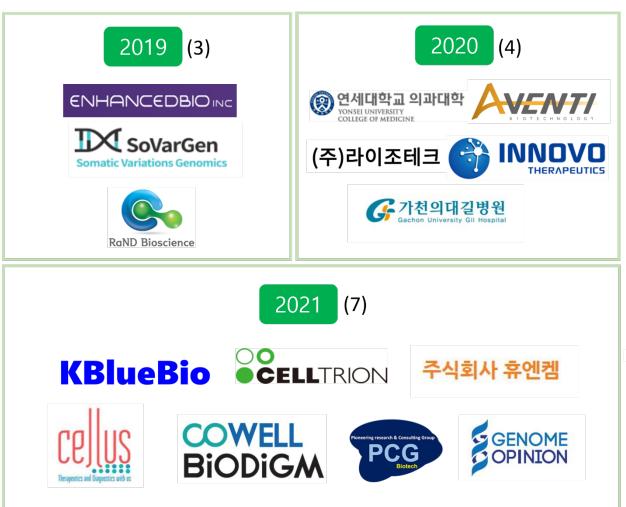
Making technology licensing deals with big pharmaceutical companies

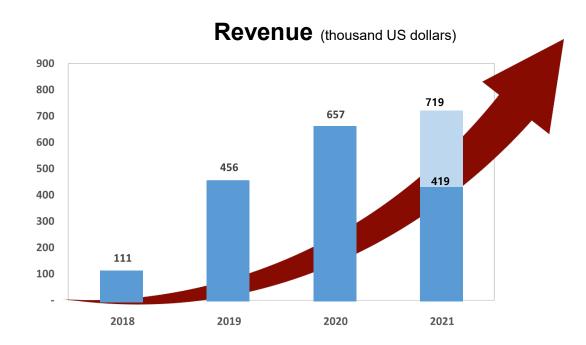


Creating stable sales revenue by expanding collaborative research with pharmaceutical companies

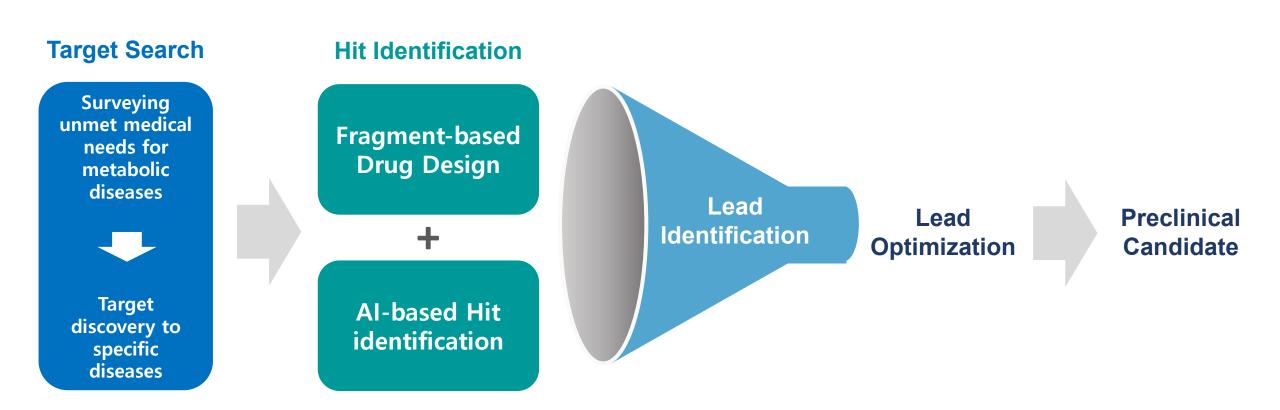
(We provide medicinal chemistry services to our partners.)

Industry Partners





We are discovering novel therapeutics for metabolic diseases with unmet medical needs



"To discover novel therapeutics for metabolic disease with unmet medical needs that help people live longer and healthier"

THANK YOU

JD Bioscience

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