



# Gene Techno Science Co., Ltd.

# Financial Results for 1Q/FY2018 (Fiscal Year Ending March 2019)

August 6, 2018

# GENE TECHNO SCIENCE Our Strategic Direction



### Biotech Engineering Company, striving for value creation

 Aiming at providing comprehensive healthcare solutions for patients as well as families and caregivers –



Explore new business opportunities by providing a healthcare solution for the therapeutic areas where a current solution is insufficient

### **Our Focus**

- Pediatric disease (including juvenile one)
- Rare disease
- Intractable disease
- Asia-endemic disease



# **Financial Highlight**

- Sales of Filgrastim BS was in line with the forecast
- Milestone revenue was recorded as development stage of biosimilars pipeline had advanced
- Special payment was made in relation to the retirement of GTS Chairman

# **Business Highlight**

- Business alliance contract was signed by three companies: NanoCarrier Co., Ltd., Nortitsu Koki Co., Ltd. and GTS (the Company)
- New Management Team has started
- Decision was made on starting a negotiation to terminate collaboration agreement with Changsheng Bio, our partner for commercializing Adalimumab biosimilars in China
- Collaborative Research Agreement with chromocenter Inc. was executed

**Financial Highlight** 

**GENE TECHNO SCIENCE** 

# Financial Results for 1Q/FY2018

	Sales (in millions of yen)	Selling, ge administrativ <sub>Total</sub>		Operating profit (in millions of yen)	Ordinary profit (in millions of yen)	Net income for the year (in millions of yen)	Net income per share* (in yen)
Results for 1Q/FY2018 (A)	273	251	(141)	∆55	△62	△108	△5.69
Results for 1Q/FY2017 (B)	171	213	(104)	△118	∆114	△115	<b>∆6.02</b>
Change (A-B)	102	38	(37)	63	52	7	
(Reference) Forecasts for FY2018	1,060		1,300	∆ <b>1,180</b>	∆ <b>1,180</b>	∆ <b>1,182</b>	
Key points							
<ol> <li>Steady earnings         <ul> <li>Filgrastim biosimilar sales figures were as forecasted.</li> <li>Milestone revenue in biosimilars portfolio was recorded.</li> </ul> </li> <li>Steady progress of development here biosimilar operations. (Development is going smoothly)</li> <li>SG&amp;A expenses on schedule Special payment in relation to the biosimilar operations. (Here biosimilar operations)</li> </ol>							

\*The company split each share into two shares on July 1, 2018. Net income per share for the quarter is calculated based on the assumption that the split was conducted at the beginning of FY2018.

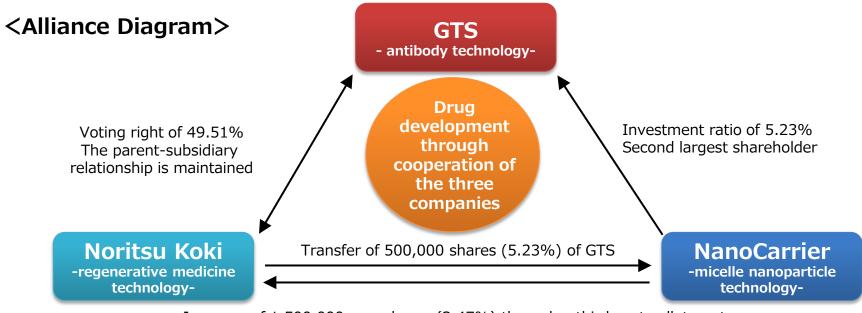
#### A business alliance of NanoCarrier Co., Ltd., Nortitsu Koki Co., Ltd. and GTS (the Company)

April 2018: A business alliance contract signed by three companies: NanoCarrier Co., Ltd., Nortitsu Koki Co., Ltd. and GTS (the Company)

- Goals
- To create innovative technologies and medicines by combining the strengths of each company
- A capital alliance by NanoCarrier owning shares of GTS and Noritsu owning shares of NanoCarrier

#### <Combining the strengths of each company>

- NanoCarrier utilizes its own micelle nanoparticle technology in developing innovative pharmaceuticals, mainly anticancer medicines encapsulated with low molecule, nucleic acid or peptide.
- > Noritsu Koki is promoting a regenerative medicine business with their drug development division, and we are providing support to it by utilizing our antibody technology gained through the biosimilar operation.



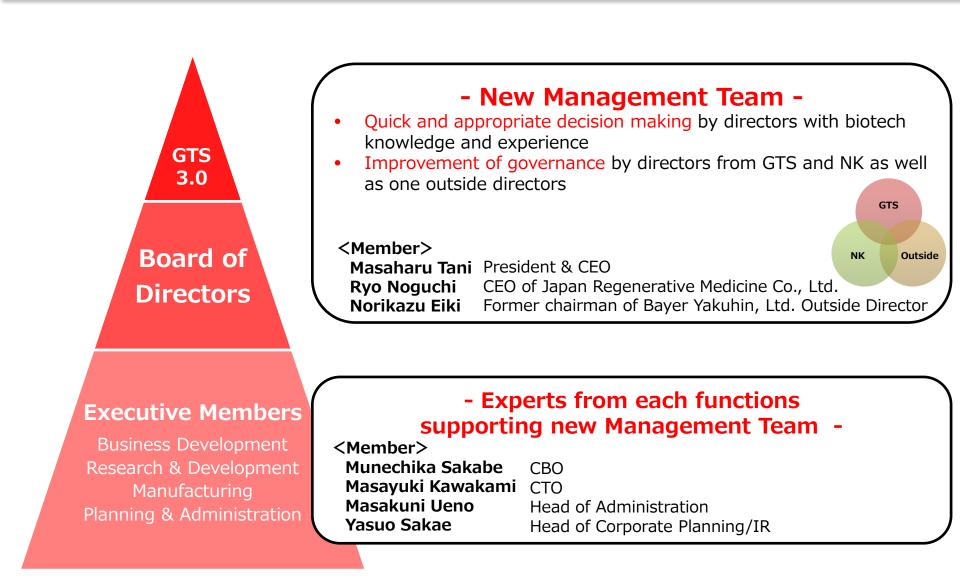
Issuance of 1,500,000 new shares (3.47%) through a third-party allotment

#### Quoted from FY2017 IR Meeting Information May 16, 2018

#### Challenge GTS3.0

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## **New Management Team**



Quoted from Information Material about GTS Strategic Direction June 28, 2018

Decision on collaboration agreement with Changsheng Bio, our partner for commercializing Adalimumab biosimilars in China

## **Backdrop**

• July 15, 2018

Regulators (State Food and Drug Administration) revealed that Changsheng Biotechnology had forged data during the production of 110,000 rabies vaccines and sold more than 250,000 "substandard" diphtheria, tetanus and pertussis (DTP) vaccines to medical centres last year and had ordered it to halt production of a rabies vaccine due to substandard production

- July 27<sup>th</sup>, 2018
  - We (GTS) decided to start negotiation with Changsheng Biotechnology to terminate collaboration agreement for commercializing Adalimumab biosimilars in Chinese market
  - We found Changsheng Biotechlology's corporate culture as problematic from a series of scandals and judged they are not our appropriate partner because they committed unethical act which we cannot understand at all from a viewpoint of pharmaceutical companies who should consider patients' safety as a first priority.

## Next step

- Start negotiation with Changsheng Biotechnology immediately
- Search for a new partner for Adalimumab biosimilars and other biosimilars in China because it has a strategic value for us as a market for biosimilars.

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Collaborative Research Agreement with chromocenter Inc.

### chromocenter Inc. (http://chromocenter.com/eng/)

A biotechnology specialist who has leading-edge technologies such as Artificial Chromosome Vector, Chromosome Analysis, etc.

### **Purpose of this collaboration**

Develop high-yield protein producing cell lines for biosimilars by optimizing gene construct encoding amino acid sequence of recombinant protein through chromocenter's Artificial Chromosome Vector technology

<b>1</b> Collaborative Research	②Establishment of Fundamental Technology	<b>3</b> Achievement of Competitive Advantage
Collaboration with chromocenter Inc.	Benefits from high-yield cell line	Creation of advantages for biologics commercialization
Establish new platform technology by combining chromocenter's vector technology with GTS technology/know-how	<ul> <li>✓ Increase production volume of drug substance</li> <li>✓ Decrease manufacturing cost</li> <li>✓ Enhance efficiency of manufacturing process</li> <li>✓ Strengthen price competitiveness</li> <li>✓ Improve success probability of partnering</li> </ul>	Secure competitive advantage by leveraging this technology for GTS ongoing pipeline products, new biologics and biosimilars
		Challenge GTS3.0



## (1) Biosimilars Business

Development code	Target disease	R&D	Clinica	al trial	Application submitted/revie	
			Phase I	Phase III	wed Approved/marke ted	Affiliates
GBS-001 Filgrastim	Cancer					Fuji Pharma Co., Ltd. Mochida Pharmaceutical Co., Ltd.
GBS-004 Bevacizumab	Cancer					
GBS-005 Adalimumab	Immunological diseases					Terminating an agreement with Changchun Changsheng Life Sciences Limited (China) and searching new partners
GBS-007	Ophthalmic diseases					Senju Pharmaceutical Co., Ltd.
GBS-008 Palivizumab	Infectious diseases					
GBS-010 Pegfilgrastim	Cancer					
<b>GBS-011</b> Darbepoetin alfa	Kidney disease					Sanwa Kagaku Kenkyusho Co., Ltd.

\*Milestone revenue was recorded during 1Q FY2018 as development stage of pipeline products had advanced.

# **Progress in each pipeline**

## (2) New biologics business

Development code	Target disease	Basic research	R&D	Clinical trial			Application	
				Phase I	Phase II	Phase III	submitted/r eviewed Approved/m arketed	Affiliates
<b>GND-001</b> Anti-human α9 integrin antibody	Immunological diseases, cancer							Kaken Pharmaceutical Co., Ltd.
GND-004	Ophthalmic diseases, cancer							Searching partners
GND-007	Immunological diseases							

## (3) New biotech business (regenerative medicine)

Product	Target area	Basic research	Clinical trial	Approval on condition/te rm *	Sold at a market (Review effectiveness and further safety after sale)	Approved	Sales continue	Collaborating company/institution
Cardiac stem cells	Improvement of heart functions							Japan Regenerative Medicine Co., Ltd.
Immunologic tolerance induction	Auto immune diseases Organ transplants, allergies							Juntendo University
Bone marrow mesenchymal stem cells	diabetic nephropathy							Sapporo Medical University Minerva Medica Co., Ltd.

\* An approval system that encourages faster commercial viability of regenerative drug products.

The process in which a patient receives an explanation about the risks, and with the agreement of the patient, the medicine is used. After the launch, safety measures will be taken.



This information material is provided for understanding Gene Techno Science ("GTS"), not for soliciting investment in GTS shares.

Information provided in this material may contain so-called "forwardlooking statements." These statements are based on current expectations, forecasts and assumptions that are subject to risks and uncertainties, which could cause actual outcomes and results to differ materially from these statements. Risks and uncertainties include success rate of R&D projects, new regulations and rules, relations with partners in the future, etc.

This material includes information on pharmaceutical products and regenerative medicine (or related products), etc., which is being developed or launched. However, this is not intended to promote our products or provide medical advices.



# **Gene Techno Science**



## Biotech Engineering Company, striving for value creation