# **BofA Global Healthcare Conference 2021**



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President & CEO, Shionogi & Co., Ltd. September 16, 2021



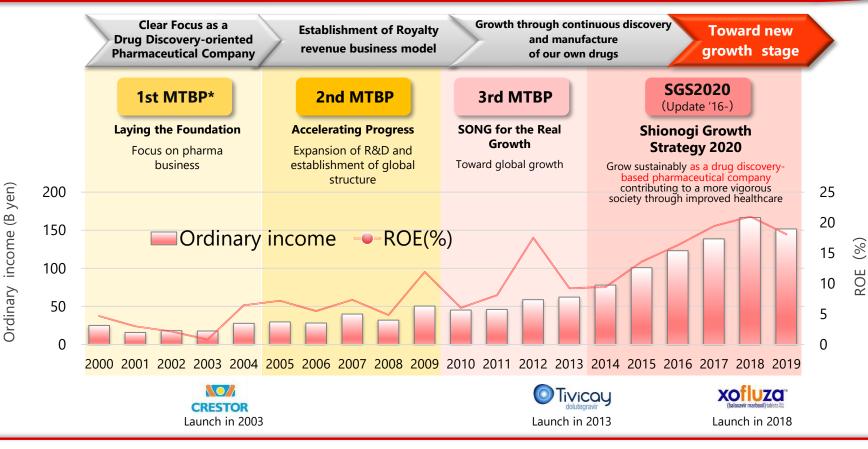
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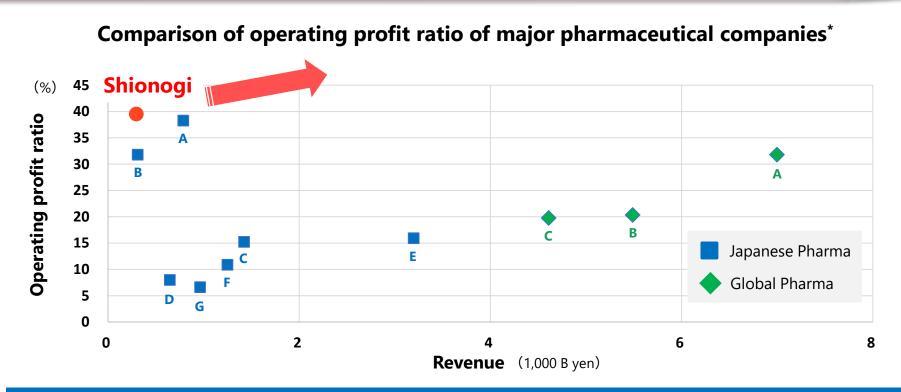
# **Shionogi's Growth History**







# **Shionogi With A Strong Presence**

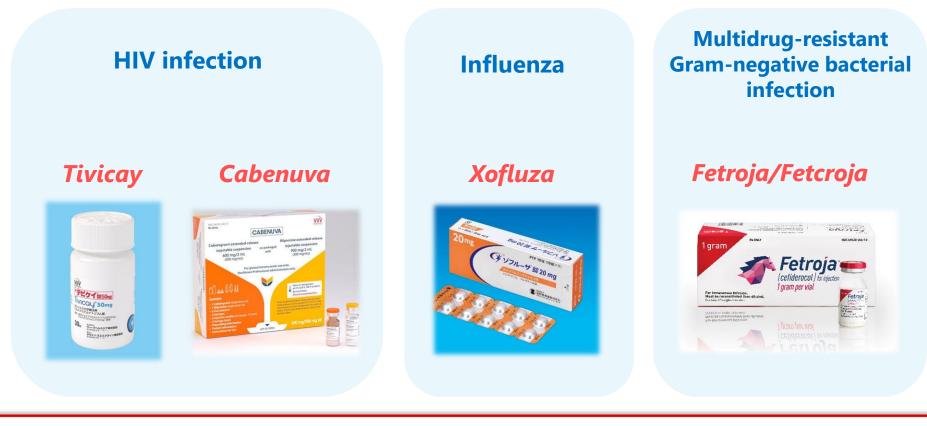


#### To be a company that consistently grows as it contributes to society



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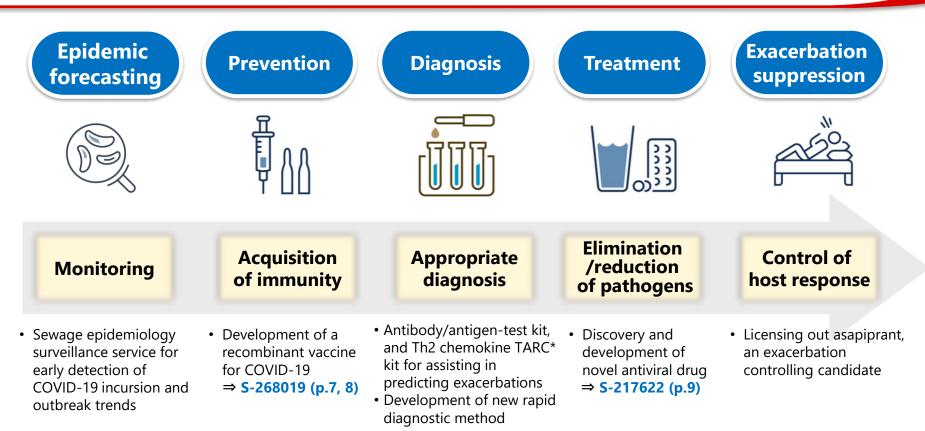
### **Recent Achievements** - Infectious Disease Area -





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# Shionogi's Actions for Total Care of COVID-19



\* TARC (thymus and activation-regulated chemokine)

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One of the chemokines driving migration of Th2 cells, a type of lymphocyte, to the site of inflammation

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for you!

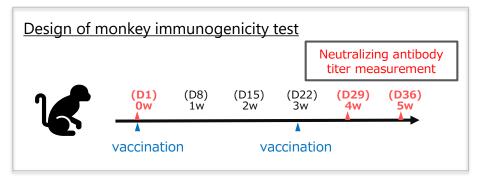
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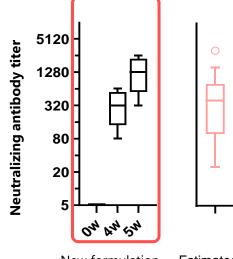


**Development of recombinant protein vaccine (S-268019)** 

# **Tested with a combination of various adjuvants**

- Monkey immunogenicity test
  - Very high correlation with clinical data accumulated so far





New formulation clinical equivalent (N=4/group) Estimated value of convalescent serum\* (N=59)

#### **Confirmed similar neutralizing antibody titer compared to recovered patient serum**





#### **Development of recombinant protein vaccine (S-268019)**

- Our vaccine can be expected to induce higher neutralizing antibody titers in humans while avoiding VDE/ADE risk
  - Good data confirmed in immunogenicity tests using monkey models well correlated with humans
    - > High neutralizing antibody titer (equal to or better than recovery patient serum)
    - > Expect to maintain a favorable Th1>Th2 type balance

#### Domestic clinical trial plan

- Phase 1/2 trial in progress
- Immediately progress to the next phase after the above trial
  - Plan to evaluate safety and efficacy in around 3,000 cases

#### • Aim to begin pivotal trials in 2021

- Preparing a comparative study with an approved vaccine
- In addition to the above, preparing a placebo controlled trial in Asia and Africa
- Continued discussions with regulators and ministries for domestic provision based on the earliest pivotal trial results
- Production capacity is in preparation





#### **Development of therapeutic drugs** with superior efficacy and safety

- Initiated phase 1 trial of COVID-19 therapeutic drug (S-217622) in Japan
  - In-house small molecule oral antiviral drug, 3CL protease inhibitor
    - > Efficacy: significant reduction in viral load
    - > Safety: no major concerns so far
    - Does not require PK booster\*
- Efforts for early provision
  - Plan to start large-scale clinical trials in Japan by the end of 2021
  - Preparing for global development
  - Preparing production capacity





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#### **Diagnostic markers that can predict** exacerbation

- HISCL<sup>®</sup> TARC reagent
  - Launched in June 2021 as an auxiliary for detection of COVID-19 aggravation



# Rapid and highly sensitive antigen test

- LumiraDx Ag Test and LumiraDx Instrument
  - Launched in May 2021



# Establishment of analysis system for SARS-CoV-2 in sewage

Suppression of exacerbations in asymptomatic individuals and mild patients

- Sewage epidemiology surveillance service
  - Initiated the service for detecting SARS-CoV-2 in June 2021



- Asapiprant (S-555739)
  - Phase 2 trials in US and South America are ongoing by BioAge





### Action for HIV



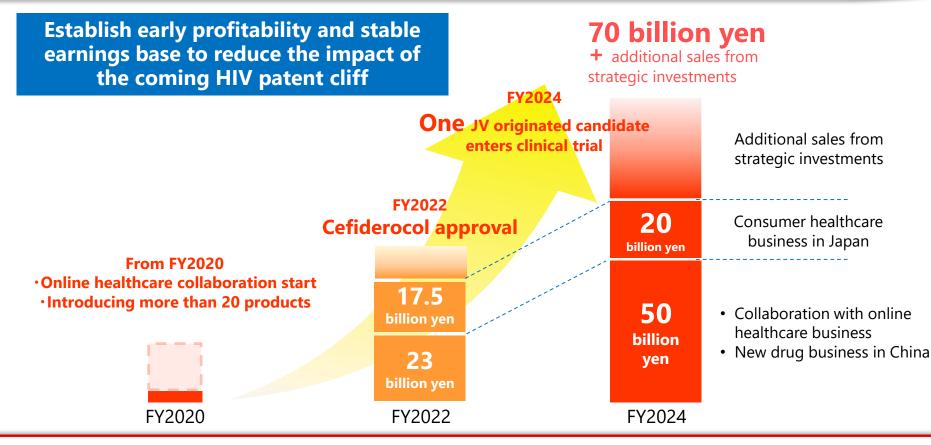
#### **Driving Growth of HIV Franchise with ViiV Healthcare**

- Focusing on four products/projects in the strategic collaboration with ViiV
- In addition to the above activities, pursuing functional cure of HIV infection





# China Business Strategy - Sales Vision of Ping An-Shionogi





### 2030 Vision - What we want to achieve by 2030 -





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# Appendix



### **R&D Progress: 8 Core Projects**



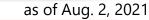
	Pipeline	Indication	Status
Infectious disease	S-540956	HIV infection, cancer	Preparing Phase 1 study
Psycho- neurological diseases	S-600918 [sivopixant]	<ol> <li>Refractory chronic cough</li> <li>sleep apnea syndrome</li> </ol>	<ol> <li>Phase 2b study in progress</li> <li>Phase 2a study in progress</li> </ol>
	S-637880	Neuropathic low back pain	Phase 2a study in progress
	S-812217 [zuranolone]	Depression	Phase 2b study in progress
	BPN14770 [zatolmilast]	<ul><li>①Alzheimer's disease</li><li>②Fragile X Syndrome</li></ul>	<ul><li>①Phase 2 study in progress</li><li>②Preparing Phase 2b and Phase 3 study (US)</li></ul>
	S-874713	Psycho-neurological diseases	Preparing Phase 1 study
New growth areas	S-531011	Solid tumor	Preparing Phase 1b/2 study
	S-005151 [redasemtide]	<ol> <li>Epidermolysis bullosa</li> <li>Acute stroke</li> <li>Osteoarthritis</li> <li>Chronic liver disease</li> </ol>	<ul> <li>①Preparing for application</li> <li>②Phase 2 study in progress</li> <li>③④Investigator initiated clinical trial (Phase 2 trial) in progress</li> </ul>

Steady progress of 8 core projects and COVID-19 project (Details to be reported at R&D day on Sep. 29, 2021)



### **Pipeline: Infectious Disease**





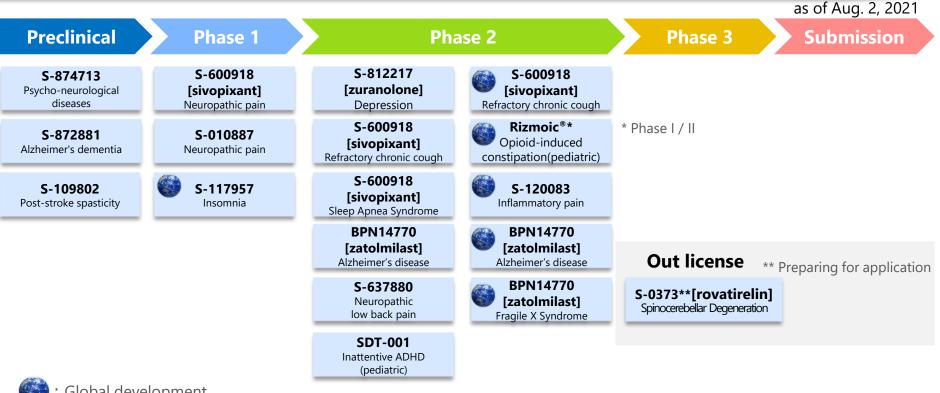






# **Pipeline: Psychological and Neurological Disease**

S-O-N-G for you!





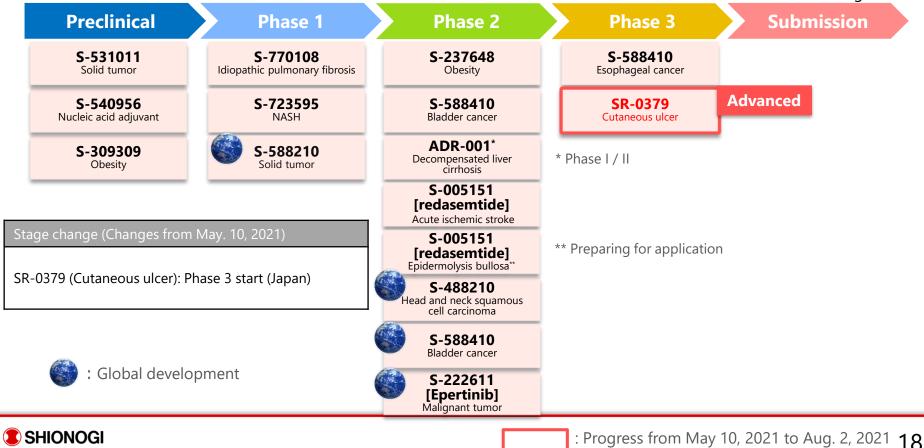
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: Progress from May 10, 2021 to Aug. 2, 2021 17

### **Pipeline: New Growth Area**



as of Aug. 2, 2021



### New Medium-Term Business Plan "STS2030"







