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Forward-Looking Statements

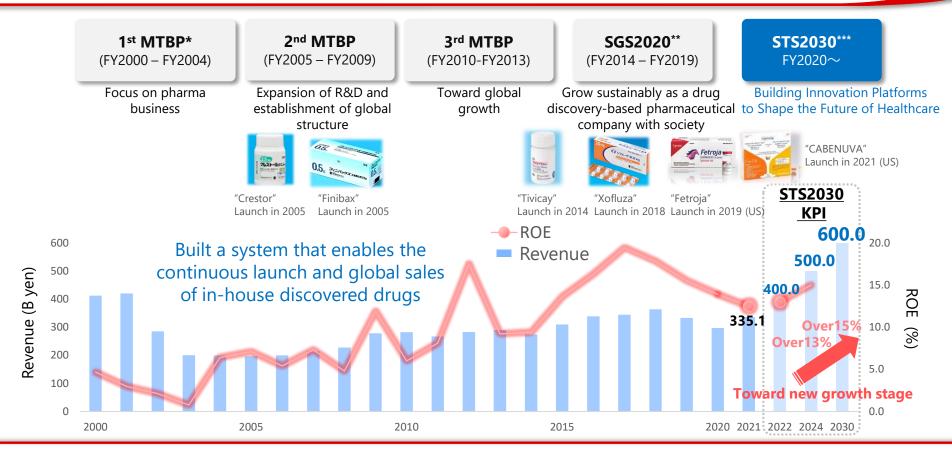


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SHIONOGI's Growth History

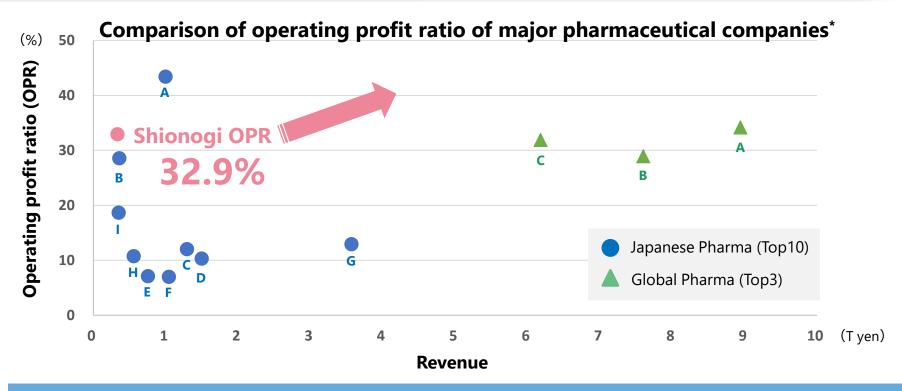






SHIONOGI with a Strong Presence



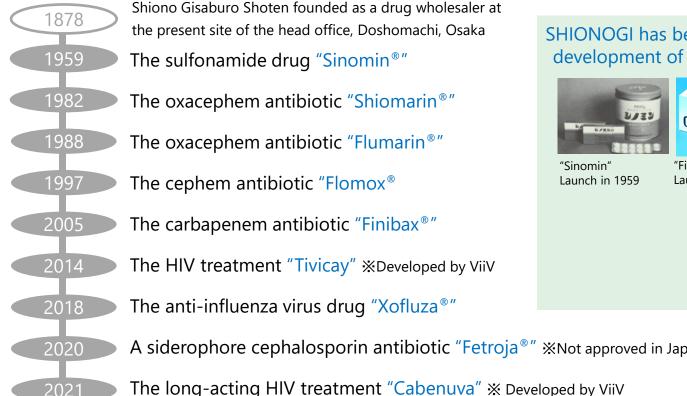


To be a company that consistently grows as it contributes to society



SHIONOGI's History in Infectious Disease (ID) Area





SHIONOGI has been engaged in research and development of ID drugs for about 60 years



"Finibax" Launch in 2005



Launch in 2014



"Xofluza" Launch in 2018



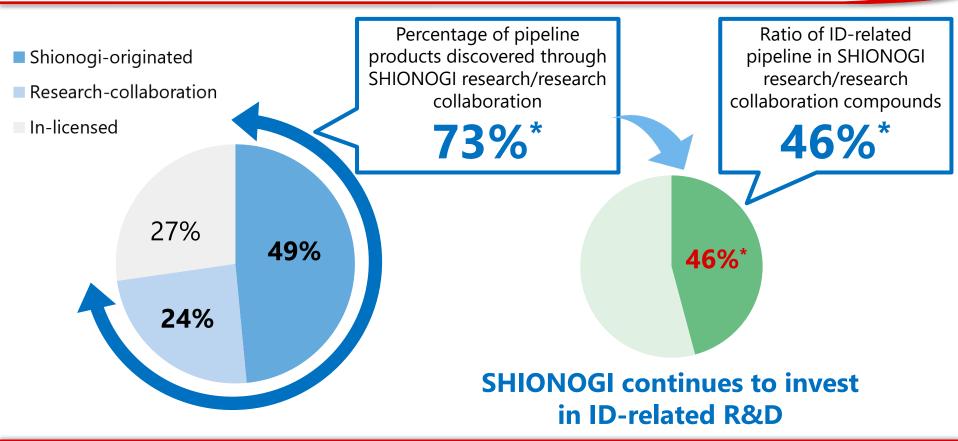
"Fetroja" Launch in2019 (US)

A siderophore cephalosporin antibiotic "Fetroja®" *Not approved in Japan

The long-acting HIV treatment "Cabenuva" * Developed by ViiV

Features of SHIONOGI's R&D pipeline







Actions for the Early Termination of COVID-19



Epidemic forecasting



Diagnosis

Treatment

Exacerbation suppression









Launch of sewage epidemiology surveillance survey service

Development of S-268019

Th2 chemokine TARC* kit, antigen-test kit

Development of S-217622

Development of Asapiprant



Established AdvanSentinel Early detection of BA.2



Verification of noninferiority to COMIRNATY intramuscular injection (Pfizer) in additional immunological tests



Joint sale of antigen-test kit using saliva specimens



Completion of domestic approval application based on the result of Phase 2a/2b



Ph2 trial started



Actions for COVID-19





S-217622 (therapeutic drug)

Development status

- Domestic manufacturing and marketing approval application based on the results and analysis from the Phase 2b part (February 25, 2022)
- Good efficacy and safety results from the Phase 2a/2b part announced at 32nd ECCMID* (April 23, 2022)
- Continuation of Phase 2/3 trial
 - Phase 3 part (mild/moderate) and Phase 2b/3 part (asymptomatic/mild symptoms) are underway

Future plan

- Global Phase 3 trial started in collaboration with ACTG**
- Since April 2022, production is expanding to supply more than 10 million people annually



^{*} European Congress of Clinical Microbiology and Infectious Diseases

^{**} The AIDS Clinical Trial Group: The world's largest HIV research network expanding its activities to evaluate outpatient treatment of COVID-19 in recent years

Actions for COVID-19





S-268019 (prevention vaccine)

Development status

- 6 Pivotal clinical trials in progress
 - Phase 2/3 trial active control, neutralizing antibody titer trial
 - Placebo control, onset prevention trial
 - Phase 2/3 booster trial
 - Phase 3 booster trial (additional trial in Japan)
 - Phase 2/3 trial in Japanese adolescents

Future plan

- Prior evaluation consultation based on the results of ongoing clinical trials
- Consulting with the regulatory authorities for domestic application
- Scheduled to establish a supply system of more than 60 million shots annually



What is SHIONOGI after FY2022



FY2021

Lessons from the special situation of the COVID-19 pandemic

- Progress R&D and production at an unprecedented speed by drastically shifting resources and changing processes
- Recommendations for policy changes through pharmaceutical industry organizations

From FY2022



Build a sustainable ID business model

- World-class drug discovery capability with speed, advanced decision-making, and effective resource allocation honed during the COVID-19 situation
- Further development of vaccine business

Promote pandemic experience-based ID business transformation without changing focus



Three Axes that Build a Sustainable ID Business







Acute infection (Flu, COVID-19, RSV, etc.)







Possible to form a healthy pipeline based on stable profits

The most important issue is the management of acute infections



Current Status of Chronic ID & Vaccine Pipelines



Chronic infection

	Target	Non-clinical	Pre-clinical	Phase 1	Phase 2	Phase 3	NDA	Launched	Description
Dolutegravir	HIV								Tivicay, Juluca, Dovato
Cabotegravir	HIV								Cabenuva, Apretude (PrEP)
S-365598	HIV				Puild	Build a stable business like the HIV franchise			License out to ViiV Healthcare
S-544110	TB/NTM*								Collaboration with HSIRI Therapeutics
_	Malaria								Collaboration with Nagasaki Univ.

Vaccine

	Target	Non-clinical	Pre-clinical	Phase 1	Phase 2	Phase 3	NDA	Launched	Description
S-268019	COVID-19								6 Pivotal clinical trials in progress
S-875670	COVID-19				Vaccina	مردار رماریا	Nasal vaccine		
S-872600	Flu					exclusivity nt and can	Nasal vaccine		
S-540956	_				stable profi	Nucleic acid adjuvant			
_	HBV								Collaboration with NEC



Dysfunctional Acute ID Market



- Social needs
- Huge R&D expenses
- Maintenance cost of production equipment



- Difficult epidemic prediction
- Antibiotic stewardship
- Promotion of switching to generics

Unable to form a healthy pipeline because the investment cannot be recovered

Big Pharma withdraws from antimicrobial market

- AstraZeneca sold small molecule antimicrobial business to Pfizer (2016)
- Sanofi transferred ID department and 100 employees to Evotec (2018)
- Novartis withdraws from antimicrobial research (2018)

Bankruptcy or acquisition of biotech players

- Achaogen filed for bankruptcy (April 2019)
- Within 1 year from plazomicin approval in July 2018
- Melinta Therapeutics filed for bankruptcy (December 2019)
- Acquisition of Tetraphase Pharmaceuticals (July 2020)
 - Elavacycline approved in August 2018



Establishment of a Sustainable Acute ID Business



Promotion of R&D Human resource development (push incentive) BARDA, CARB-X, GARDP, CEPI, etc.

Revenue structure not influenced by epidemic (pull incentive)

stockpile, subscription

Strengthening and maintenance of supply chain GARDP, CHAI

Current ID business

Unstable business influenced by epidemic and external factors

It is necessary for society as a whole to continue to tackle the dysfunctional market situation so that we can make the maximum contribution in the event of an emergency

Sustainable ID business



2030 Vision - What We Want to Achieve by 2030 -



Building Innovation Platforms to Shape the Future of Healthcare

