Bukwang Pharm

IR Report 2022





Disclaimer

This presentation contains forward-looking statements about Bukwang Pharmaceutical Co., Ltd. Such statements are related to incidents of the future and not of the past, and include business status and financial performance that the company predicts for the future. The predictions and estimations have inherent uncertainties and risks, so please keep in mind that the company's actual future performance may differ from the estimated performance. The inherent uncertainties and risks include changes in relevant rules and regulations, changes in general business environment and fluctuations in the financial market.



INDEX INDEX

Company overview Company history Shareholders' status Vision Growth strategy and driving force
 R&D Strategy
 R&D Activities
 Global Network
 Main R&D Pipeline

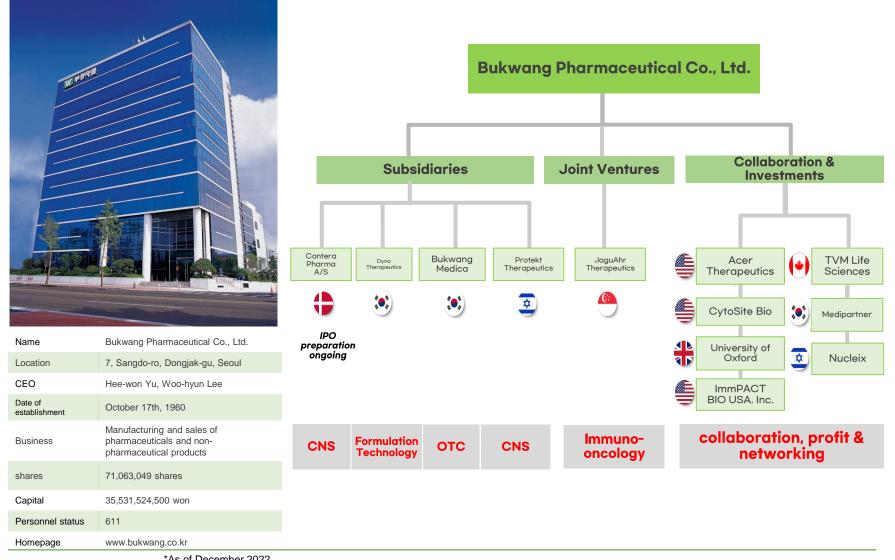
Strategies and drivers for revenue growth

- Profit and Loss of fourth Quarter in 2022
- ETC Prescription Results
- Summary of Consolidated Financial Position

BUKWANG PHARM. CO., LTD.

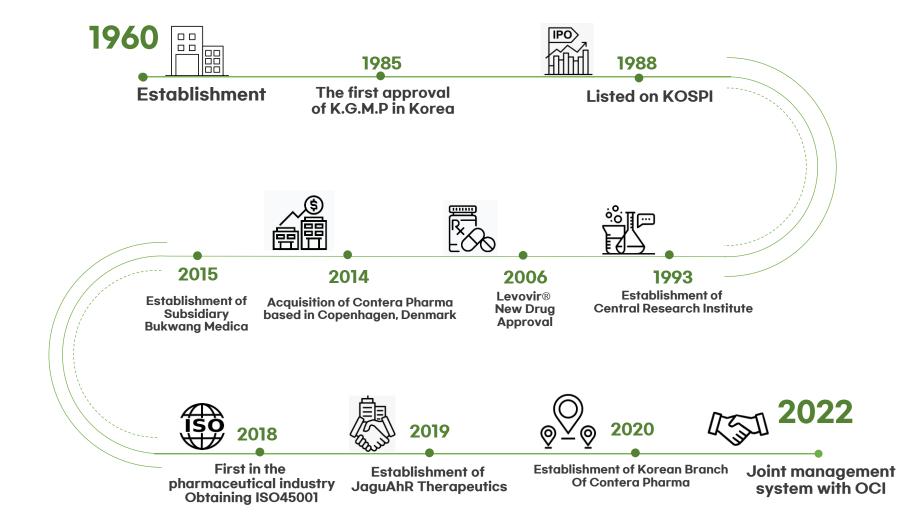
Corporate introduction

Company overview

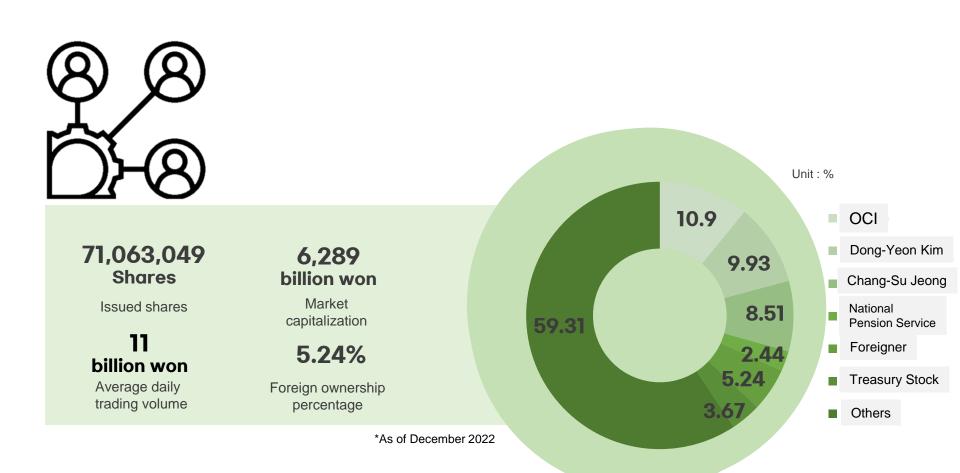


*As of December 2022

Company history

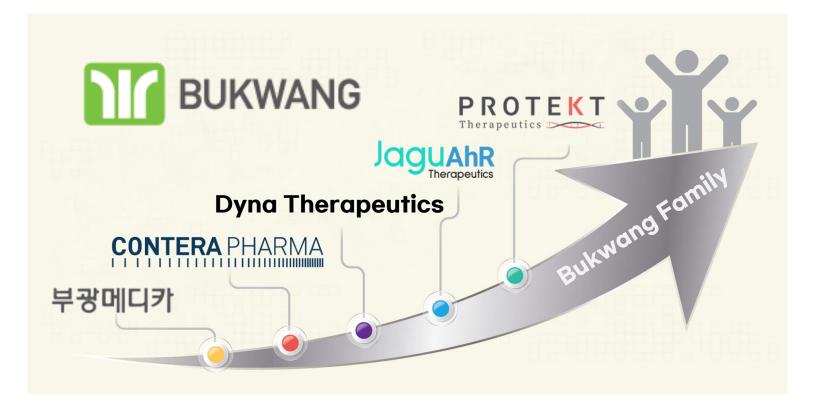


Shareholders' status



Vision

- Bukwang Pharmaceutical aims to become a global pharmaceutical and biotech company based on the management philosophy of 'contributing to the stability of drug supply and society through the production of excellent pharmaceuticals'
- Bukwang Pharmaceutical is increasing its corporate value through enhancing competitiveness in its main business area of new drug development and expanding synergies.



Growth Strategy & Motives

Global open innovation in R&D

Global R&D Experience

- Development of Hepatitis B Antiviral Agents
- Incrementally modified drug for diabetic neuropathy

R&D

Focus

CNS

Investment

Oncology

 Development of anti-cancer drugs for stomach cancer and diabetes treatments

A variety of pipelines & Business models

- CNS : dyskinesia in Parkinson's disease,
 Parkinson's disease, Alzheimer's disease, etc.
- Anti-cancer drugs: Immune-oncology, prostate cancer, etc.

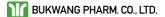
Investment Portfolio

 Various investment portfolio including Subsidiaries, Joint Ventures, Research Collaborations, Equity Investments, Indirect Investments, etc.

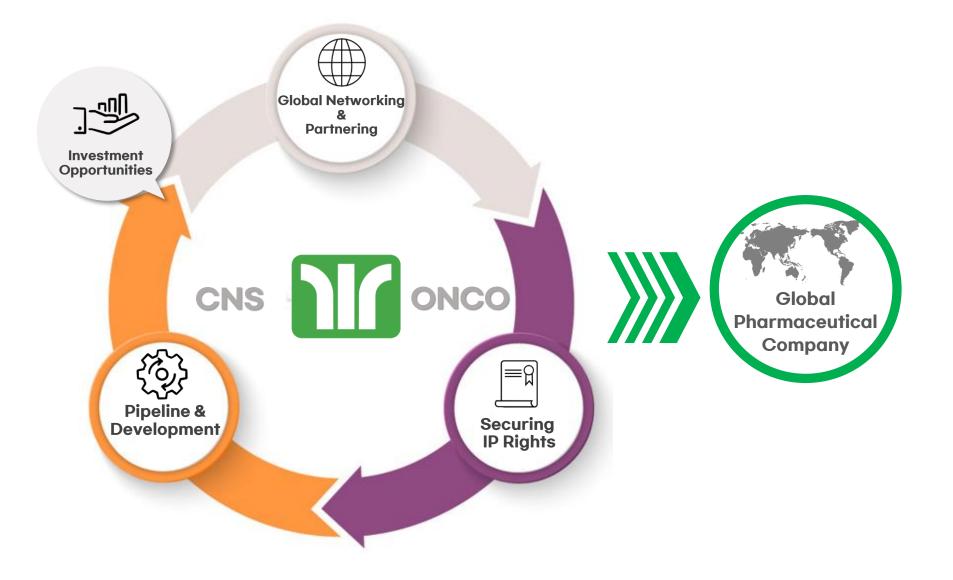
Diverse and distinctive company portfolio

Bukwang Medica	Growth of consumer health business
Contera Pharma	Positive outcome from ongoing clinical study for JM-010 Novel therapy from RNA platform
Dyna	Successful clinical development of SOL-804 and L/O
JaguAhr	L/O or acquisition of the company after CD nomination
Protekt	L/O or acquisition of the company after CD nomination

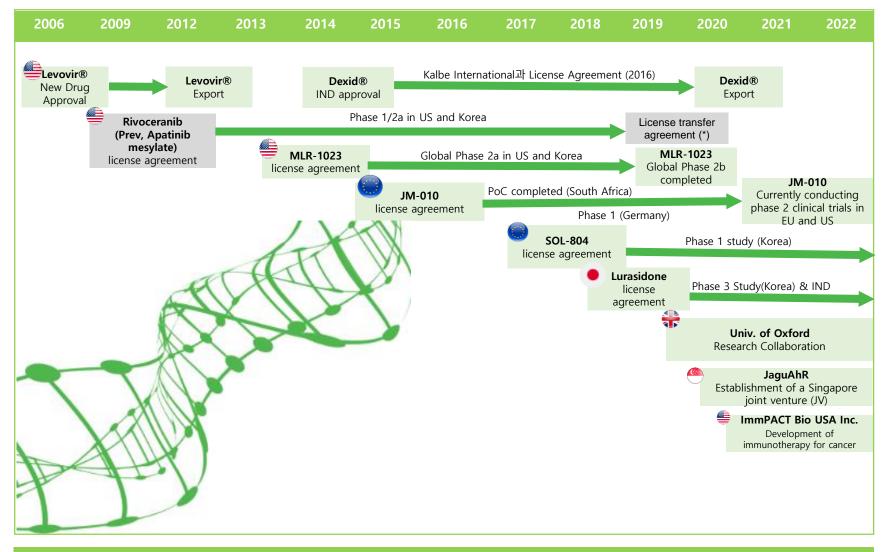
R&D Activities



R&D Strategy: Global Open Innovation



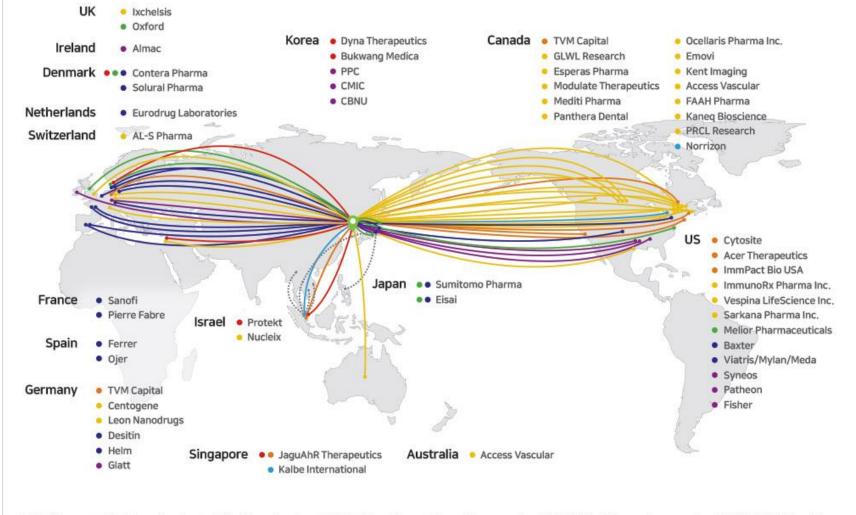
R&D activities



Aug 2018, Bukwang entered into a license transfer agreement of Rivoceranib for 40 billion KRW with HLB Life Science Co., Ltd

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Global Network



Subsidiary
 Direct Investment
 Indirect Investment
 R&D Collaboration
 Export Agreement
 Distribution/ License Agreement
 CRO/CMO Collaboration

Main R&D Pipeline

Pipeline	Туре	Indication	Development process					
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Lead	Preclinical	Ph1	Ph2	Ph3	NDA
Lurasidone	CNS	Schizophrenia/bipolar depression						
JM-010 (Contera)	CNS	Dyskinesia in Parkinson's Disease						
SOL-804 (Dyna)	Innovative formulation	Prostate Cancer						
AhR inhibitor (JaguAhr)	Immuno- Oncology	Solid Cancer	-					
PKR Inhibitor (Protekt)	CNS	Alzheimer's disease						
PD program	CNS	Parkinson's Disease						

Lurasidone : Treatment for Schizophrenia/bipolar depression

Indication

- Treatment of Schizophrenia/bipolar depression developed by Sumitomo Pharma
- Schizophrenia & Bipolar I Disorder (Bipolar depression)
- Lurasidone acts as an antagonist of the dopamine D₂, the serotonin 5-HT₂, and 5-HT7 receptor

Market Size

- Launched in April 2015 in the North American market, sales of \$2 billion USD in 2021
- Over 45 countries release

 (US, Canada, EU, UK, Switzerland, Russia, Japan, China, Singapore, Thailand, Hong Kong, Taiwan, Australia, United Arab Emirates(UAE), Kuwait, Saudi Arabia and Brazil)

Contract

- License agreement with Sumitomo Pharma (Apr, 2017)
- Bukwang has monopolized copyright of Korean market

Progress Situation

- Approved of phase 3 clinical study in Korea (Aug, 2017)
- Phase 3 clinical study in Korea in progress since 2018
- Phase 3 clinical patient visit completed (June, 2022)
- Positive top-line results: success in Phase 3 study and securing statistical significance of primary and secondary evaluation variables (July, 2022)
- NDA has been submitted (Oct, 2022)

SOL-804 : Prostate Cancer treatments

Development Background

- IMD(Incrementally Modified Drug) of Zytiga which is Blockbuster of Prostate Cancer Treatments
- New formulation of currently available Abiraterone Acetate(Zytiga) applying Lymphatic Targeting Techonolgy[™] to eliminate the food effect and to reduce dosing level

Development Partner

- Dyna Therapeutics which is Bukwang's formulation-focused subsidiary (98.84% shareholding)
- June 2016, exclusive licensing agreement to develop, market, and commercialize SOL-804 worldwide with Solural Pharma (DK)

Market Size

• 3.5 B USD(18' Zytiga Peak sales based)

Development Progress

- Jun 2016, Development rights Licensing
- Obtained the composition patent in July 2020 (Europe, Japan, Eurasia, Mexico, Australia)
- USA patent: Dec, 2021
 March 2022, Preliminary Phase 1 completed
- Scheduled to conduct clinical trials for regulatory approval in the first quarter of 2023

JM-010 : Treatment for Dyskinesia in PD

Indication

 Dyskinesia in Parkinson's Disease

Development Partner

- Contera Pharma A/S (Denmark)
- Subsidiary of Bukwang since Nov 2014 and remaining as an independent entity in Europe Sales Authority of Development Production : Bukwang (Worldwide except Europe), Contera Pharma(Europe)

Progress

- Phase 2a (PoC) study completed in South Africa (Nov 2015)
- Phase 1 completed in Germany (2016)
- Orphan drug designation in Korea has been secured (Jan 2017)
- Phase 2 global study is ongoing
- Adding Korean clinical institutions to European clinical trials
- EU study* : Patient Dosing
- U.S. study : Patient Dosing

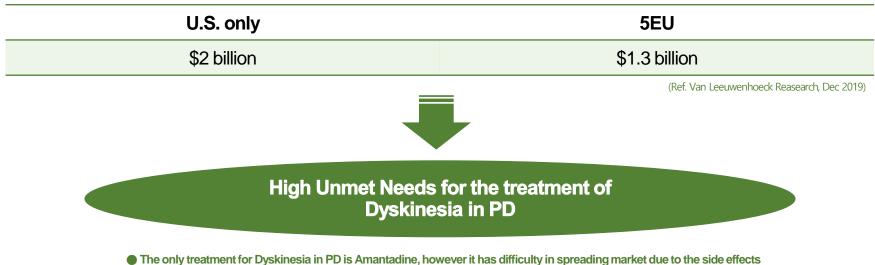
JM-010: Treatment for Dyskinesia in PD - Market Size

Incidence rate

Number of Patients in PD	5 years after taking Standard treatment(Levodopa)	10 years after taking Standard treatment(Levodopa)
approximately 10 million	approximately 50%	approximately 90%
		(Ref. PD Foundation)

- Over 2 million patients with Dyskinesia in U.S. and EU
- Dyskinesia is the second unmet needs for patients in Parkinson Disease following a fundamental treatment

Market Size



Contera Pharma A/S

Overview

Founded by former Novo Nordisk, Novatis researchers

(Novo Seeds, SEED Capital invested)

- Research activities focused on the development of treatment related to dyskinesia : JM-010 (dyskinesia in PD treatment) and others
- Appointed CEO and Executive Director from the top global CNS professional company
- Having a proven track record of accelerating novel and cutting-edge small-molecule and RNA-based therapeutics to the clinic

Share Ratio

• Bukwang holds 71.23% shares (As of December, 2022)

Progress Situation

- 2010 Contera Pharma established
- 2014 BK taked over by 100% share ratio
- 2015 clinical PoC completed
- 2016 phase 1 study completed
- 2019 series A 3 billion won
- 2020 series B 30.5 billion won
- 2022 Gaining exclusive rights of CP-012
 - Establishment of new research discovery NOVA technology platform (Discovery of RNA based therapies and Al-driven prediction of activity)

Contera Pharma Management





CEO: Thomas Sager, MSc, PhD

- · Served as Vice President at Lundbeck A/S, a pharmaceutical company specializing in CNS treatments
- Served as Director of Neurological Disease R&D Research, Business Development, Licensing and Scientific Assessment at Lundbeck A/S
- · More than 24 years of drug discovery experience acquired in the biotech and pharma industry
- Involved in multiple licensing, M&A opportunities and deals (Such as Foliglurax : Parkinson's disease treatment on phase 2 of Prexton therapeutics, VYEPTI® (eptinezumab-jjmr) : Antihemicranin of Alder Biopharmaceuticals)



CBO: Anders Brandt Elvang, MSc, PhD

- Served as head of neurological medicine at Lundbeck A/S
- In charge of business development valuation for neurological diseases and senior director of business development and strategy at Lundbeck A/S
- In charge of Asia and Europe sales part of Azilect, a Parkinson's disease treatment (*the largest global sales of \$500m)
- In charge of marketing strategy establishment and licensing (South Korea, China, Philippines)

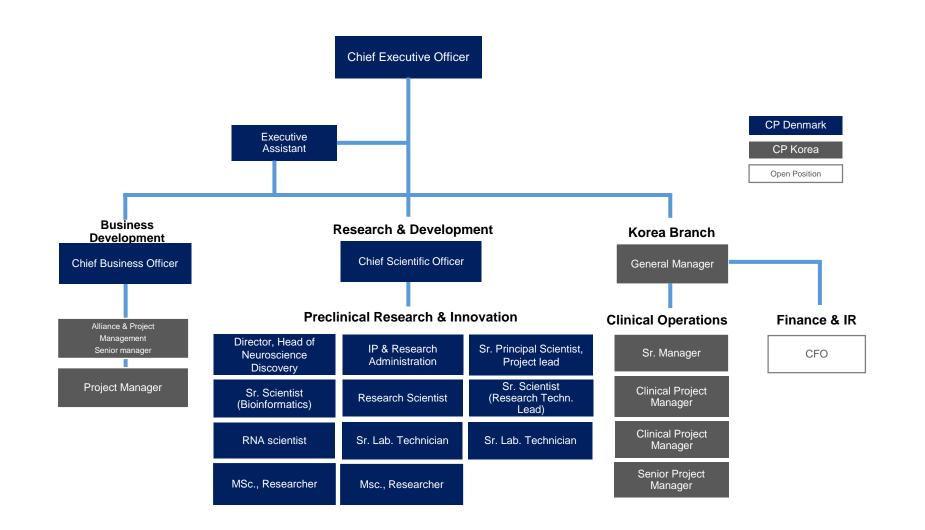


CSO: Kenneth Vielsted Christensen, MSc, PhD

- In charge of developing new drugs for neurological diseases at Servier, a French global pharmaceutical company
- Worked as a Principal Scientist and Project Leader in the Department for Neurodegeneration focusing on developing disease-modifying treatments for patients suffering from neurological disorders such as Parkinson's disease and Alzheimer's disease for 10 years
- Experienced in pipeline expansion through external collaboration opportunities

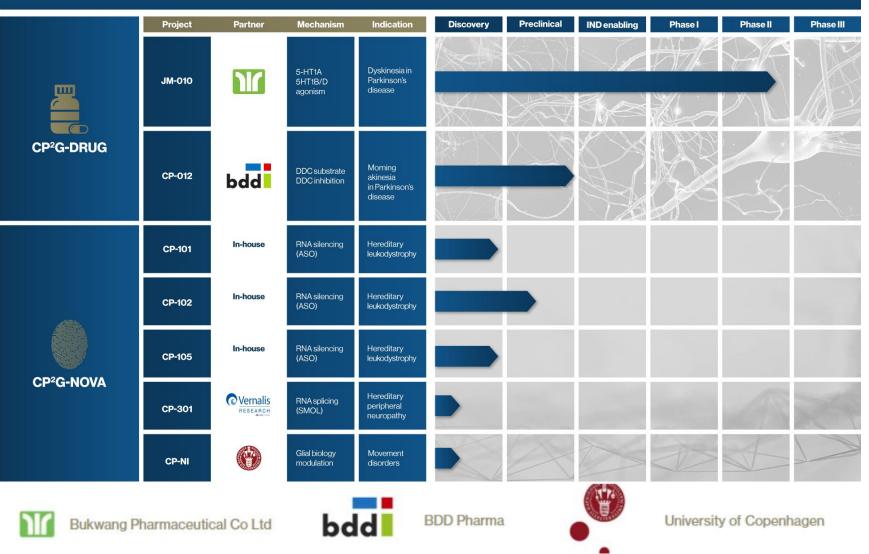
CONTERA PHARMA

Contera Pharma Organization



Contera Pharma Pipeline

PIPELINE



CONTERA PHARMA

JaguAhR Therapeutics



Introduction

- JaguAhr Therapeutics is joint venture that Bukwang established together with Singapore based oncology focused biotech ASLAN Pharmaceuticals
- JaguAhr focuses on developing new immune oncology therapeutics for global markets targeting the AhR pathway
- JAGUAHR Therapeutics is currently in the discovery phase of its small-molecule AhR antagonist program with a view to delivering clinical candidate drugs

Shareholding Ratio

- Bukwang 65%, ASLAN 35%
- Board of directors : 2 people in Bukwang (one of them is chairman), 2 people in ASLAN

Progress Situation

2019 JaguAhR Therapeutics establishment

2022 Lead optimization in progress

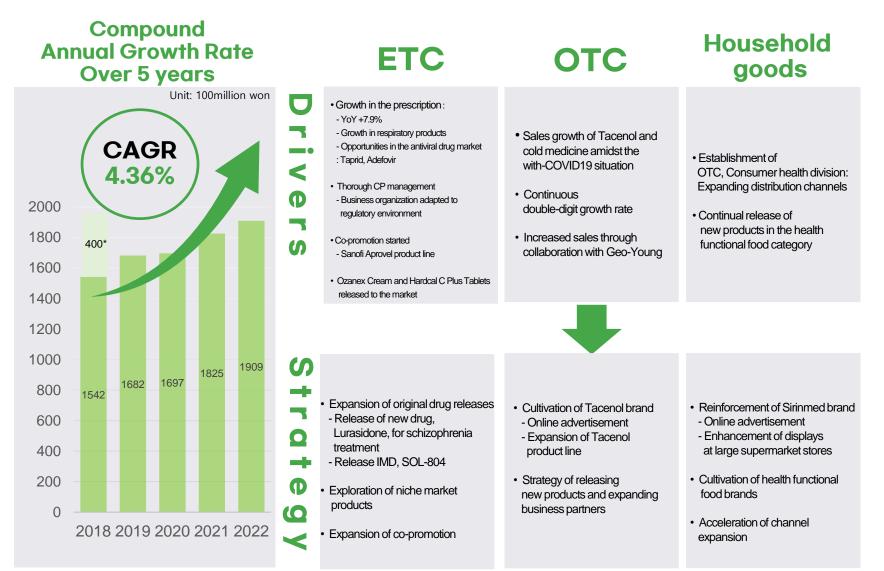
Investment Portfolio

Company	Area	Pipeline	Discovery	Nonclinical	Phase 1	Phase 2	Phase 3	NDA	FDA
		OLPRUVA™							
Acer	Serious rare & life-threat	EDSIVO™						,	Approval
Therapeutics	ening diseases	ACER-801							
		ACER-2820							
		Heme Bispecific					ase 1/2 plan nducted in th		arter of 2023
ImmPACT Bio	Immuno oncology (CAR-T)	iCAR Targeting							
	、 <i>,</i>	TGF-β CAR bispecific							
Cytosite Bio	Imaging for	68Ga Tracer							
	oncology	18F Tracer				•			
TVM Capital	Various	Multiple Portfolio companies							

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Performance Briefing

Revenue Growth & Driving factors



*Out of the total revenue in 2018, 40 billion KRW was from the sale of the Rivoceranib sales rights

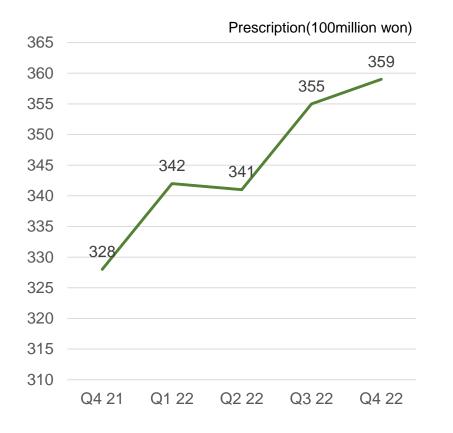
Profit and Loss of fourth Quarter in 2022

Separate	(Unit: 100million won)	2022	YoY	2021	2020
	Sales revenue	1,903	4.8%	1,816	1,661
	% COGS ratio	58.7%		59.0%	59.2%
	R&D Expense	120	-19.5%	149	139
	% R&D ratio	6.3%		8.2%	8.4%
	Operating income	123	-6.8%	132	85
	% Margin	6.5%		7.3%	5.1%
	EBITDA	192	-5.4%	203	150
	% EBITDA	10.1%		11.2%	9.0%
	Net Income	20	-16.7%	24	-55
	% Margin	1.1%		1.3%	-3.3%
	0				
Consilidated	d (Unit: 100million won)	2022	YoY	2021	2020
Consilidated			YoY 4.6%		
Consilidated	d (Unit: 100million won)	2022		2021	2020
Consilidated	d (Unit: 100million won) Sales revenue	2022 1,909		2021 1,825	2020 1,697
Consilidated	d (Unit: 100million won) Sales revenue % COGS ratio	2022 1,909 58.4%	4.6%	2021 1,825 58.5%	2020 1,697 57.7%
Consilidated	d (Unit: 100million won) Sales revenue % COGS ratio R&D Expense	2022 1,909 58.4% 243	4.6%	2021 1,825 58.5% 225	2020 1,697 57.7% 180
Consilidated	(Unit: 100million won) Sales revenue % COGS ratio R&D Expense % R&D ratio	2022 1,909 58.4% 243 12.7%	4.6% 8.0%	2021 1,825 58.5% 225 12.3%	2020 1,697 57.7% 180 10.6%
Consilidated	d (Unit: 100million won) Sales revenue % COGS ratio R&D Expense % R&D ratio Operating income	2022 1,909 58.4% 243 12.7% -2	4.6% 8.0%	2021 1,825 58.5% 225 12.3% 56	2020 1,697 57.7% 180 10.6% 40
Consilidated	 d (Unit: 100million won) Sales revenue % COGS ratio R&D Expense % R&D ratio Operating income % Margin 	2022 1,909 58.4% 243 12.7% -2 -0.1%	4.6% 8.0% -103.6%	2021 1,825 58.5% 225 12.3% 56 3.1%	2020 1,697 57.7% 180 10.6% 40 2.4%
Consilidated	 (Unit: 100million won) Sales revenue % COGS ratio R&D Expense % R&D ratio Operating income % Margin EBITDA 	2022 1,909 58.4% 243 12.7% -2 -0.1% 69	4.6% 8.0% -103.6%	2021 1,825 58.5% 225 12.3% 56 3.1% 131	2020 1,697 57.7% 180 10.6% 40 2.4% 108

Contera pharma's R&D expenses account for the largest portion of difference between operating profit and net profit in separate and consolidated financial statements

Ethical Drug(ETC) Prescription Results

Quarterly Trend



Prescription data based on UBIST (*Except hospital prescription)

Highlights

Q4' 22 Highlights

- Continued growth in sales performance of respiratory drugs including COVID-19 related Antitussives and Expectorants and Tacenol
- Smooth market launch of Hardcal-C Plus tablets and Ozanex cream, which were scheduled to be released

Q1'23 Business Outlook

- Expected to contribute to prescription and sales growth through the expansion of production capacity and an increase in the insurance drug price of Tacenol from 51 won to 88 won (+72.5%) starting from December 2022
- Expected increase in prescription of Orfil Syrup for pediatric epilepsy patients due to the release of an improved version of the product in March

Summary of Consolidated Financial Position

Unit (100million won)	December 31st, 2022	September 30th, 2022	changes
Current Assets	2,187	2,247	-60
Cash & Cash equivalents 1)	855	748	107
Short-term financial Instruments 1)	0	250	-250
Account Receivables 2)	880	780	100
Inventories	386	410	-24
Others	66	59	7
Non-Current Assets	1,822	1,731	91
Fellow subsidiary & Investments in Associates	153	142	11
Investments 3)	198	237	-39
Tangible Assets	1,219	1,227	-8
Intangible Assets	70	72	-2
Others 4)	182	53	129
Total Assets	4,009	3,978	31
Total Liabilities	1,291	1,277	14
Accounts Payables & Others 5)	253	165	88
Short-term borrowings 6)	0	100	-100
Contract Liability	171	165	6
Others	867	847	20
Total Equity	2,718	2,701	17
Leverage ratio	47%	47%	

 Cash & Cash equivalents Repayment of short-term loans and terminating fixed
term deposits
2) Account Receivables
- Increase in account receivables due to sales growth in
the 4th quarter
3) Decrease in Investments
- Incorporating fair value financial asset valuation
4) Others in Non-current Assets
- Increase in net defined benefit asset
5) Accounts Payables & Others
- Increase in raw material purchases in the 4th quarter
6) Short-term borrowings
- Repayment of short-term loans

Thank you!

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