



**Inhibikase
Therapeutics**

4Q23 | BUSINESS PRESENTATION



**Clinical Development
of Disease-Modifying Therapeutics
for Neurodegenerative Disease & Cancer**

This presentation shall not constitute an offer to sell or a solicitation of an offer to buy any securities, nor shall there be any sale of such securities in any state or jurisdiction in which such offer, solicitation, or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

This presentation contains information that may constitute “forward-looking statements” within the meaning of Section 27A of the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended. Inhibikase Therapeutics, Inc. (the “Company” or “we”) intends for the forward-looking statements to be covered by the safe harbor provisions for forward-looking statements in those sections. Generally, we have identified such forward-looking statements by using the words “believe,” “expect,” “intend,” “estimate,” “anticipate,” “project,” “target,” “forecast,” “aim,” “should,” “will,” “may”, “continue” and similar expressions. Such statements are subject to a number of assumptions, risks and uncertainties which may cause actual results, performance or achievements to be materially different from those anticipated in these forward-looking statements. You should read statements that contain these words carefully because they discuss future expectations and plans which contain projections of future clinical studies, regulatory approvals, product candidate development, results of operations or financial condition or state other forward-looking information. However, the absence of these words or similar expressions does not mean that a statement is not forward-looking. Forward-looking statements are not historical facts, but instead represent only the Company’s beliefs regarding future events, many of which, by their nature, are inherently uncertain and outside of the Company’s control. It is possible that the Company’s actual results and financial condition may differ, possibly materially, from the anticipated results and financial condition indicated in these forward-looking statements. Management believes that these forward-looking statements are reasonable as of the time made. However, caution should be taken not to place undue reliance on any such forward-looking statements because such statements speak only as of the date when made. The Company undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. In addition, forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from the Company’s historical experience and our present expectations or projections. Important factors that could cause actual results to differ materially from those in the forward-looking statements are set forth in the Company’s filings with the Securities and Exchange Commission, including its annual report on Form 10-K and its quarterly Form 10-Q, including under the caption “Risk Factors”.

We do not intend our use or display of other entities’ names, trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other entity.

Developing innovative medicines across the therapeutic spectrum

- Multi-therapeutic pipeline across neurodegenerative disease, cancer and infectious disease
- **Risvodetinib (IkT-148009)**: Lead Selective Abelson Tyrosine Kinase (c-Abl) inhibitor with potential to be a disease-modifying treatment for Parkinson's disease (PD) and related disorders. Phase 2, 201 trial ongoing with 94% of sites open, 25% enrolled in the U.S. The 201 trial planned to be expanded for 12 additional months providing 15 months of data to evaluate clinical benefit.
- **IkT-001Pro**: Prodrug of imatinib mesylate with improved safety/tolerability profile for treatment of stable-phase chronic myelogenous leukemia. Bioequivalent 501 trial completed and FDA pre-NDA meeting January 2024 to discuss approval for 8 adult indications under 505(b)(2).
- Robust patent portfolio with protection to 2033 (oncology) and 2036 (neurodegeneration).
- Orphan designations: **Rivsodetinib** in Multiple System Atrophy, **IkT-001Pro** in up to 8 oncology indications
- Cash/cash equivalent runway into 4Q24. Continue to seek non-dilutive capital through Federal Government and private foundation sources.
- Highly-experienced management team, consultants, Board of Directors and Scientific Advisory Board



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Parkinson's and Related Disorders

Parkinson's disease and MSA in the U.S.¹

Parkinson's: Slowly Progressing

1/3 of a Patient's Lifespan to death = 25 years

90,000

New Cases / Year

38,000

Deaths / Year

930,000 - 1,200,000

U.S. Patients¹

60

Average Age Of Onset

MSA: Rapidly Progressing

1/10 of a Patient's Lifespan to death = 8 years

15,000 - 50,000

Cases

Orphan Disease

55

Average Age Of Onset



Men twice as likely as women to contract disease

Co-morbid indications



47%

Arthritis



36%

Heart/Circulatory



35%

Psychosis



30%

Dementia

Global treatment sales for PD by 2030 are expected to exceed

\$12.2 BILLION

Vision Research, 2022

Current treatments cannot alter course of Parkinson's disease

MSA has no beneficial treatments

The country with the highest diagnosed prevalence is

THE U.S.

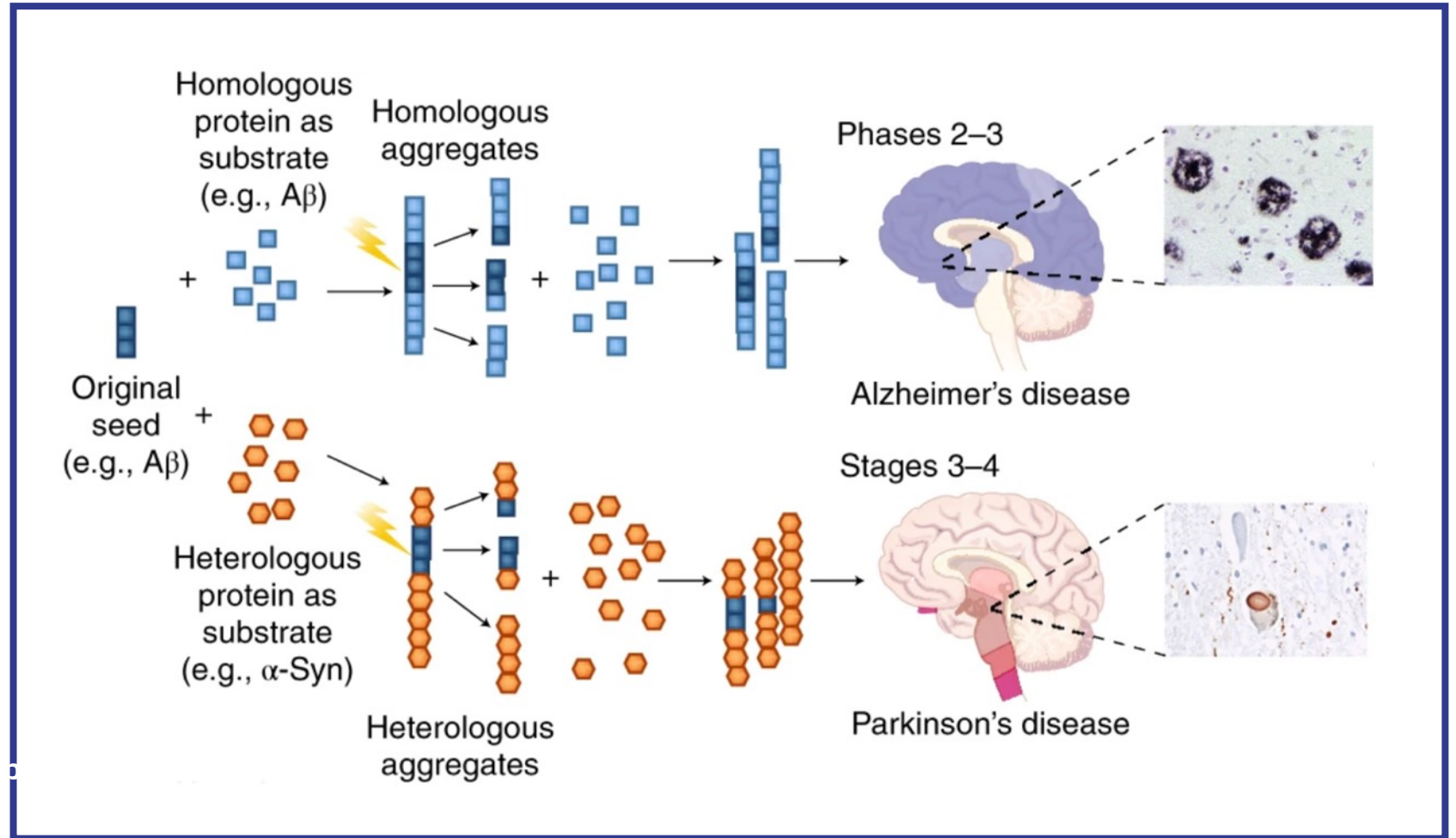
Vision Research, 2022

¹Parkinson's Disease Foundation Decisions Resources 2016, Lewin Report in the Economic Burden and Future Impact of Parkinson's disease, 2019.

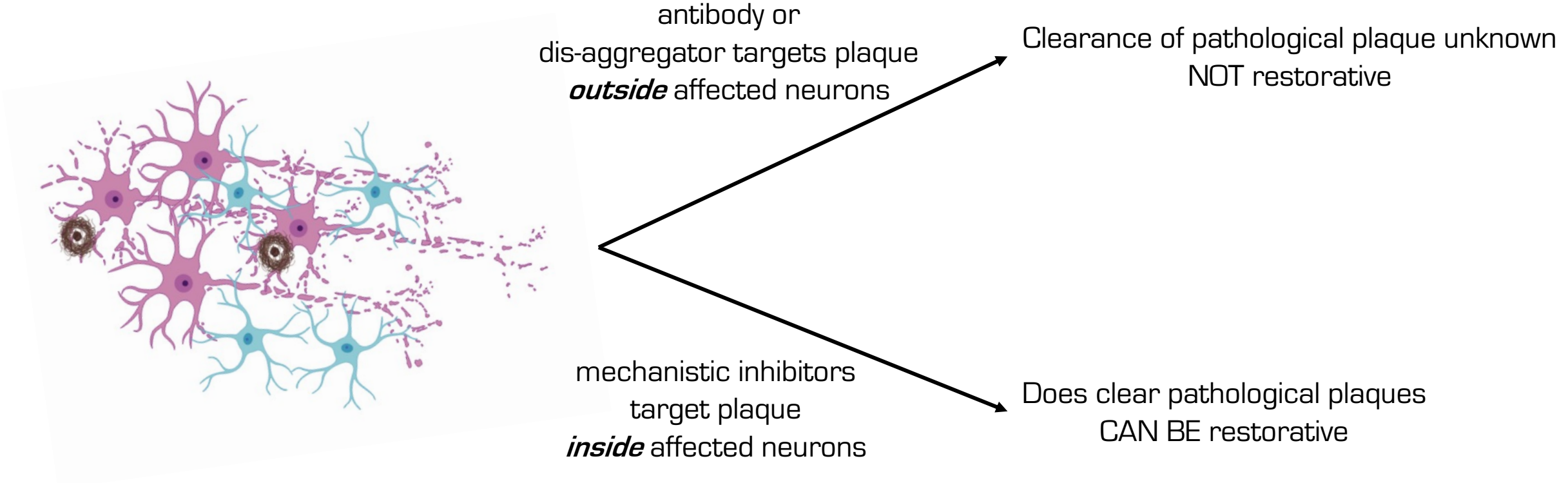
Different proteins, similar pathological effect

β -amyloid and Tau in Alzheimer's

α -synuclein in PD, MSA, DLB



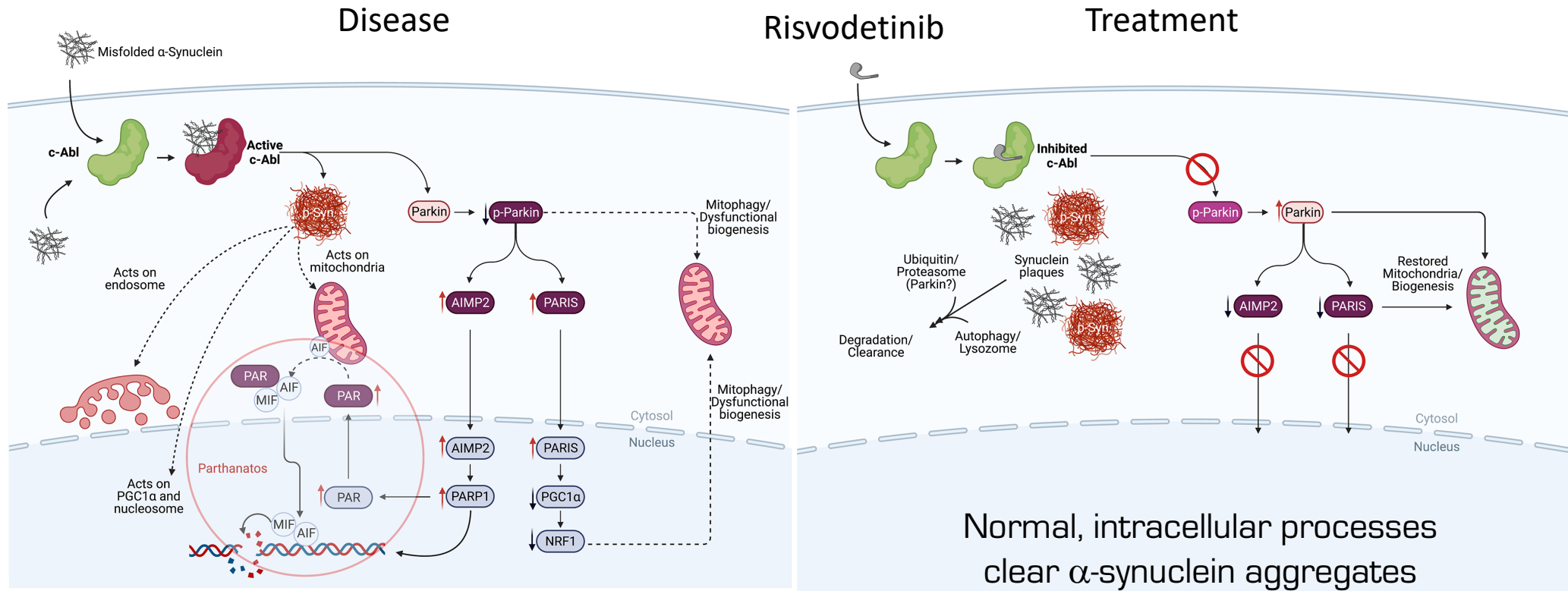
¹Nat. Neurosci. 21: 1332-1340 (2018)



➤ Risvodetinib, an inhibitor of c-Abl

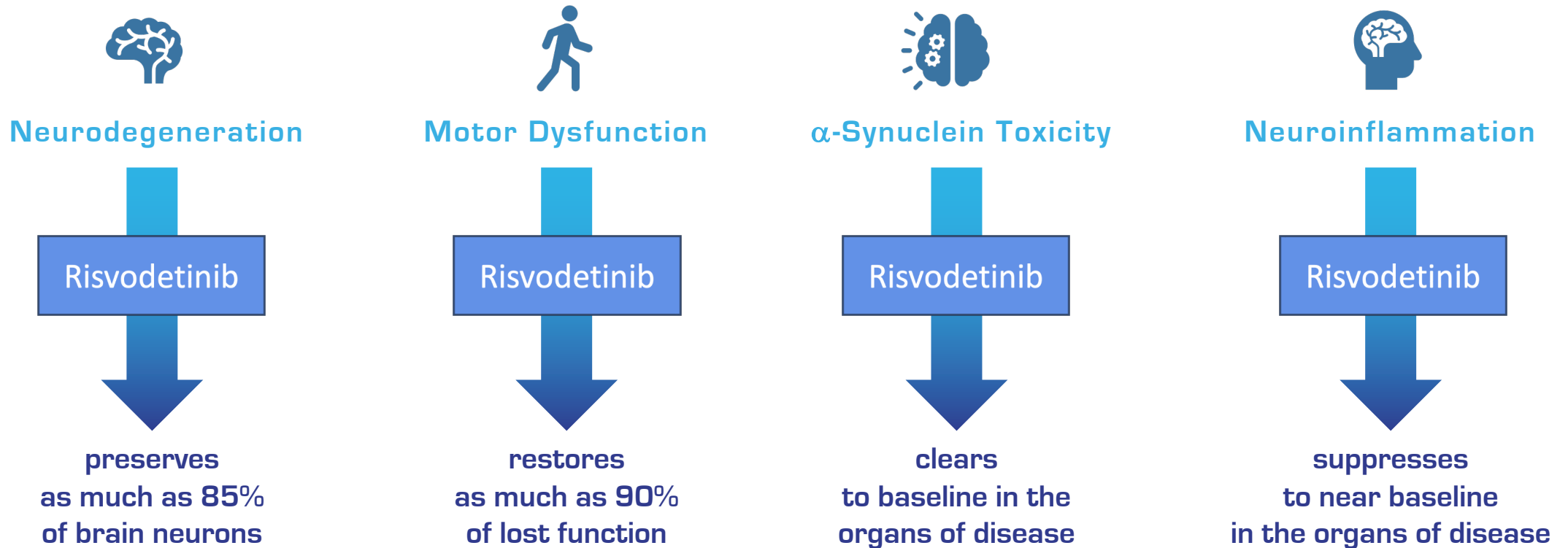
How does Risvodetinib work?

Biochemistry of disease initiation and its treatment response¹



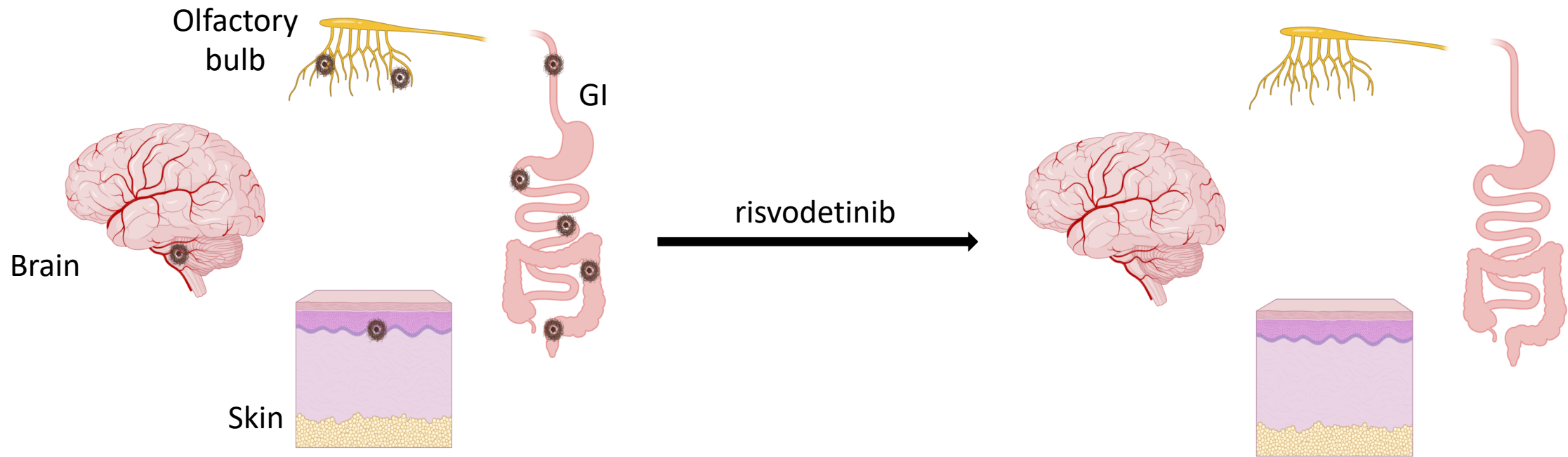
¹Werner and Olanow **37**, 6-15 (2022)

c-Abl inhibition by Risvodetinib restores lost function in Validated Animal Models of Parkinson's disease¹



¹Werner and Olanow, Mov Disorders 2021, doi: 10.1002/mds.28858
Karuppagounder, Werner, et al., Sci Transl. Med 2023 doi: 10.1126/scitranslmed.abp9352

c-Abl inhibition by Risvodetinib clears plaques systemically and restores lost function in multiple organ systems in validated animal models



¹Werner and Olanow, Mov Disorders 2021, doi: 10.1002/mds.28858



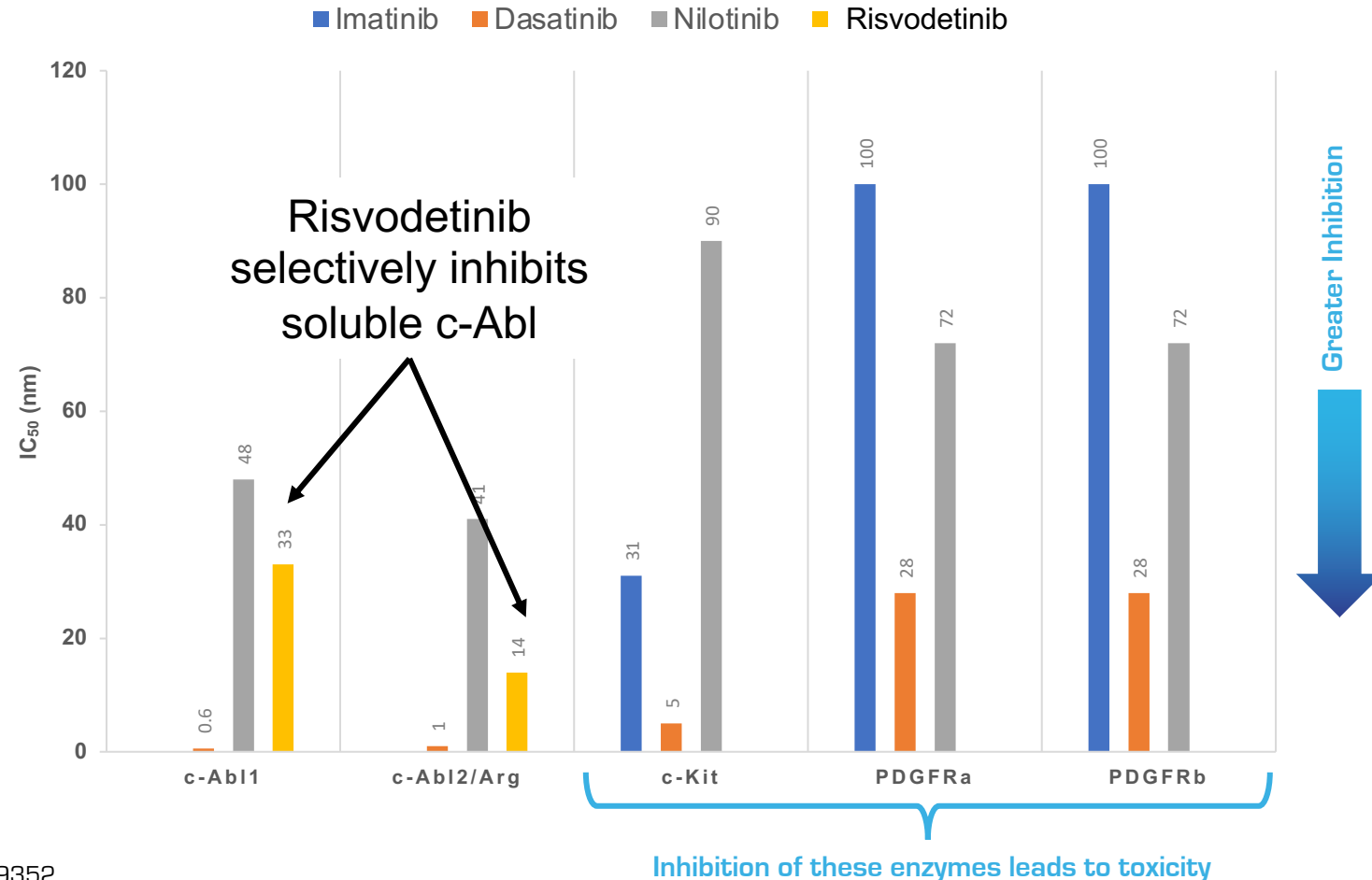
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Risvodetinib for Treatment of Parkinson's and Related Disorders

Risvodetinib is Low Toxicity, Selective, Brain Penetrant c-Abl Inhibitor

- Selective Inhibitor of c-Abl1 and Abl2/Arg
- Design suppressed toxicity of cancer drugs in this class
- Low or no apparent organ toxicity
- High brain penetrance



¹Karuppagounder, et al., (2023), DOI: 10.1126/scitranslmed.abp9352

Demographics Across 119 Healthy Subjects and Parkinson's Patients

Category	Demographic	Healthy Subjects Value (% of Total N=94)	Parkinson Patient Value (% of Total, N=25)
Gender	Female	36 (37.9)	9 (36)
	Male	58 (61.1)	15 (60)
Age	Average (SD)	57.9	61.9
	Median	58.0	63
	Range	40, 70	48, 71
Ethnicity	Hispanic or Latino	14.9 (14.8)	4 (16)
	Not Hispanic or Latino	80 (85.1)	20 (80)
Race	Black or African American	55 (58.5)	3 (12)
	White	37 (39.4)	20 (80)
	Other	2 (2.1)	0 (0)
Adverse events		13, none clinically significant, only 9 possibly drug related	12, none clinically significant, only 5 possibly drug related

Category	Dose mg	Dose Duration	# Occurrences Healthy Subjects (N=94)	# Occurrences PD patients (N=25)	Severity	
Cardiovascular	75 mg	Single Dose	1 Palpitations ¹		Mild	
Gastrointestinal	325 mg	Single Dose	2 Diarrhea		Mild	
	100 mg	7-day, 1x/day		1 Constipation ²	Mild	
	100 mg	4 wk, 1x/day		1 Elevated Amylase/Lipase ³	Moderate	
	200 mg	7-day, 1x/day	1 Elevated Lipase ⁵		Mild	
	50 mg	4 wk		1 Gastric pain ⁴	Mild	
	50 mg	4 wk		1 Nausea ⁴	Mild	
	50 mg	7-day, 1x/day		1 Dermatitis	Mild	
Musculoskeletal	200 mg	7-day, 1x/day	5 Myalgias, joint pain, fatigue, edema ⁵		Mild	

¹Appeared 2 weeks post-dose, no clinical basis found even after following by 3-day Holter monitoring; ²Appeared one day after last dosing day; ³Amylase and Lipase abnormalities were asymptomatic. Patient reported regular consumption of alcohol prior to the baseline visit and while enrolled in the trial; ⁴Single occurrence on first dose; ⁵Five AEs in a single subject, mild severity. Lipase elevation occurred on one day of a 7-day dosing period.

CLINICAL PHASE 2: the '201' Trial 3 doses



Months ▶	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Double-blinded: 3 Month Dosing Across 3 Doses													12 Month Extension Study: Quarterly Assessments					
Primary:	Safety/Tolerability												Safety/Tolerability					
Secondary:	MDS-UPDRS II+III												MDS-UPDRS II+III					
	PGI-S												PGI-S					
	CGI-S												CGI-S					
	MDS-UPDRS II												MDS-UPDRS II					
	MDS-UPDRS III												MDS-UPDRS III					
	MDS-UPDRS I												MDS-UPDRS I					
	Non-motor Symptom Scale												Non-motor Symptom Scale					
	CSBM												CSBM					
	Epworth Sleepiness Scale												Epworth Sleepiness Scale					
	GI Measures												GI Measures					
Exploratory:	Skin α -synuclein aggregates												Skin α -synuclein aggregates					
	Seed amplification assays (proprietary)												Seed amplification assays (proprietary)					
													Time to supportive medication start					
													Time from diagnosis to supportive medication start					

Double-blinded: 12 Weeks Dosing Across 3 Doses

- Participants have Untreated Parkinson's Disease with measurable disability
- Enrollment Status
 - 32 of 34 sites enrolling
 - 30 enrolled, 12 in screening, 13 in consent as of December 4, 2023
 - >165 leads through the201trial.com
 - Top-line readout 2H24

Planned 12-month extension

- Participants remain on same dose assigned for 12-week study
- Placebo moves to 200 mg
- Will measure time to initiation of dopamine replacement, if initiated
- Could overlap with Phase 3 program
- Full readout: 2025

Assessment ¹	Mean Change from Baseline @ 4 weeks				Mean Change from Baseline @ End of Study			
	50 mg N=3	100 mg N=2	200 mg N=2	Placebo N=3	50 mg N=3	100 mg N=2	200 mg N=3	Placebo N=3
PGI-S	-0.33	0	-1	-0.33	0	0	0	-0.33
CGI-S	0.33	-0.5	-2	-0.33	0.33	-2	-0.67	-0.33
PDQ-39	-1	0	-3.5	-8.3	-0.67	0	-1.67	ND
UPDRS II	-0.33	1	-0.33	-0.66	-0.33	0	-4.33	0
UPDRS III	0.33	-1	-4	-0.33	2	-1.33	-4.33	-10.4 1.7
II + III	0	0	-4.3	-0.99	1.67	-1.33	-8.67	1.7
NMSS	-1.33	-2	-0.5	0.66	-3.67	-1	1	-6.6 0
S&E ADL	0	0	-5	6.7	0	-5	-3.33	3.33
ESS	ND	ND	ND	ND	-0.33	-0.5	1.67	-1

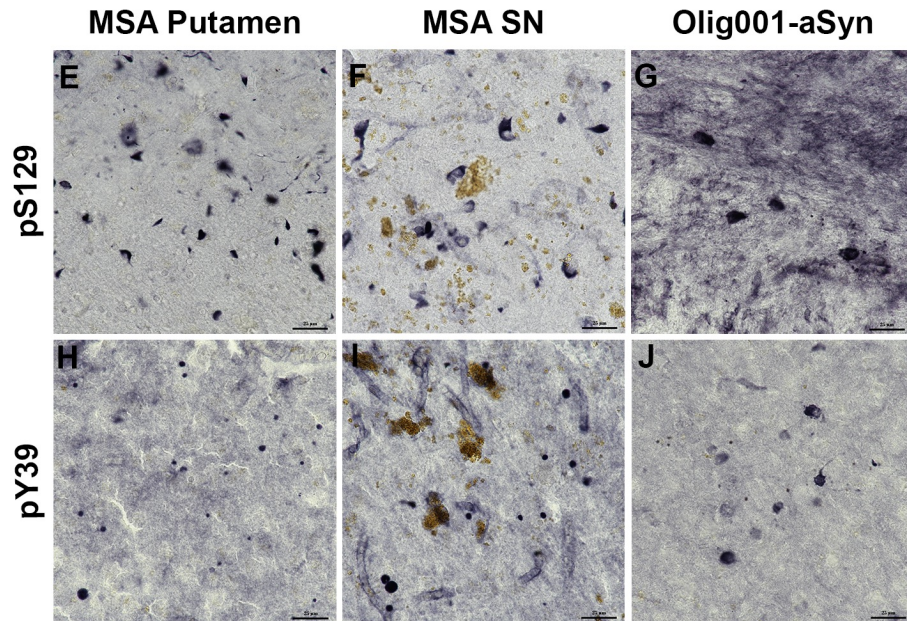
¹Lower numbers (or negative changes) may suggest improvement

c-Abl in other neurodegenerative disease

MSA¹

AD

ALS



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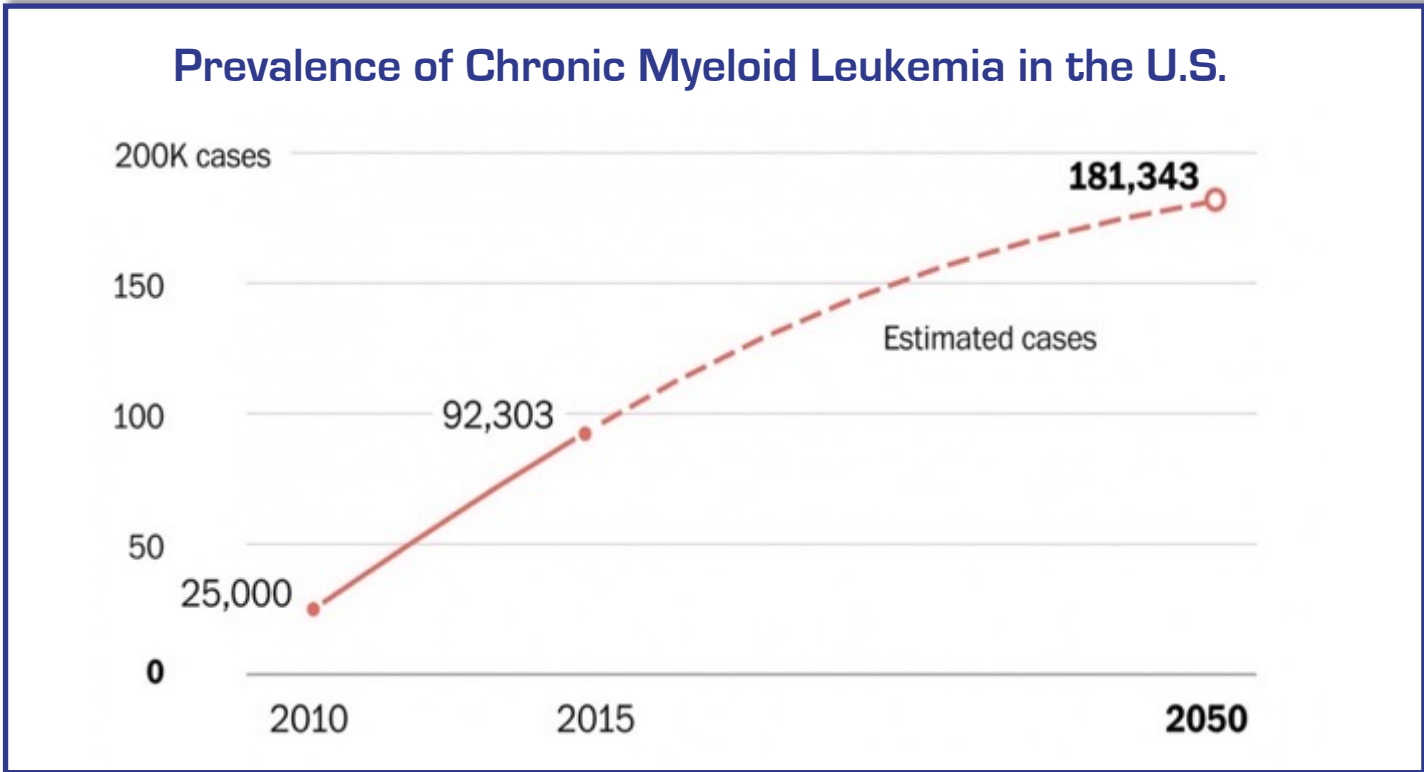
¹Marmion, Werner, Kordower et al, (2021) Neurobiol Dis 148:105184



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IkT-001Pro for Treatment of Stable-Phase Chronic Myelogenous Leukemia

CML in the U.S.¹ Accessible Market Opportunity Despite Presence of Generic Gleevec®



- Patients commonly switch due to intolerance or lack of response³
- Intolerance to Gleevec® occurs in 30% of patients, leading to lack of treatment compliance and relapse⁴
- Second generation treatments have severe adverse events (i.e. Sprycel® or Tasigna®)
- Best approach: reduce Gleevec® side effects

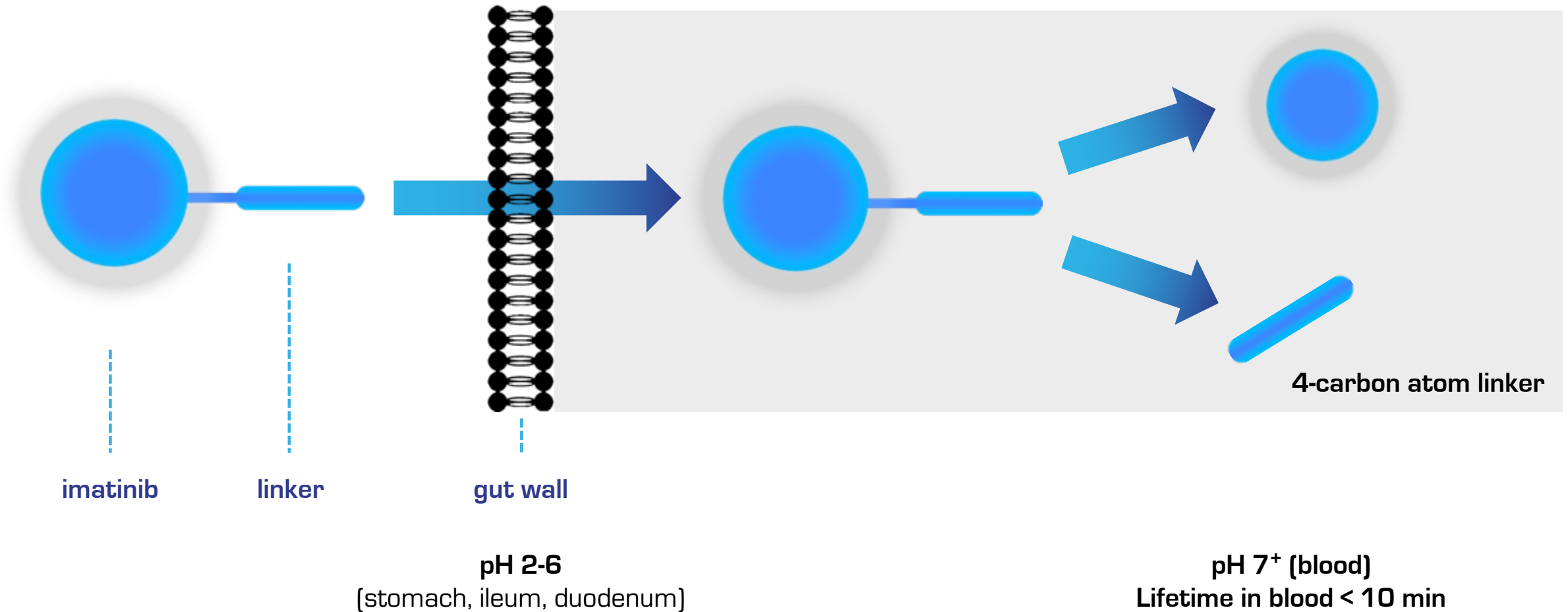
¹Jabbour E, Kantarjian H. Am. J. Hematol. 89:548–556
²IMS-Iqvia retail sales data 2016-2020
³Am J. Hematology (2019) 94:46-54
⁴Annals of Hematology (2018) 97:1357–1367

▶ \$330.5 million in net U.S. Sales for branded and generic Gleevec®²

▶ > 57% market share Generic Gleevec®

▶ 50% of recipients experience Grade 2 GI adverse events

IkT-001Pro releases the active ingredient imatinib only in blood



IkT-001Pro: Lower GI Toxicity Alternative to Generic Gleevec®

Measurement of IkT-001Pro in Non-Human Primates				
	No Adverse Event Level (mg/kg) NOAEL	Cmax (mean, ng/mL)	Tmax (mean, h)	AUC _{0-T} (mean, ng-h/mL)
Imatinib (Day 91)¹	15	176/206 (M/F)	4/3 (M/F)	1540/1960 (M/F)
IkT-001Pro (Day 28)	75	400/318 (M/F)	5.3/3.7 (M/F)	5220/3890 (M/F)

RESULTS SUGGEST THAT:

- ✓ Achieve dose flexibility, including use of higher dosing due to lower AEs
- ✓ Suppress GI and other adherence-related adverse events

¹FDA summary data for approval 21-335



Clinical Development of IkT-001Pro: Summary

- **600 mg IkT-001Pro bioequivalent to 400 mg imatinib mesylate**
 - Only 25 mild adverse events observed across 58 participants, 12 each for prodrug and standard-of-care
 - IkT-001Pro showed less inter-patient variability and longer rise time to maximum plasma concentration relative to 400 mg imatinib mesylate
 - Mean C_{\max} and $AUC_{0-\text{inf}}$ 16% higher than standard-of-care
- **900 mg IkT-001Pro bioequivalent to 600 mg imatinib mesylate ('high dose imatinib')**
- **Pre-NDA meeting January, 2024**

Clinical Development of IkT-001Pro: Adverse Events

Category	# Occurrences IKT-001Pro (N=64) ¹	# Occurrences 400 mg imatinib mesylate (N=55) ^{1, 2}	Severity
Ocular	1 Dry eyes		Mild
Gastrointestinal	5 Gassy, bloated, abdominal discomfort or loose stool	3 Loose stool, reduced appetite, nausea	Mild
Respiratory	1 Labored breathing	1 Labored breathing	Mild
Dermatological		1 Itchy ankles	Mild
Musculoskeletal	5 Myalgias, joint pain	6 Myalgias, joint pain	Mild
Neurological			
	2 Headache	2 Headache	Mild
		1 Anxiety	Mild
		1 Sleepiness	Mild

¹One subject accounts for 14 of the 25 adverse events observed; 6 of the total events on IkT-001Pro and 8 of the total events on 400 mg imatinib mesylate; ²The 300 mg 001Pro cohort did not have a 400 mg imatinib mesylate comparator (N=3)

Category	# occurrences 800 mg IkT-001pro ¹ (n=8) 1	# occurrences 600 mg imatinib mesylate (n=8) ¹	Severity
Gastrointestinal	2 Sporadic loose stool	1 Nausea	Mild
Neurological		1 Loss of appetite (7 days)	Mild

¹800 mg IkT-001Pro studied, 900 mg computed equivalent dose



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Selected Financial Data

Selected Financial and Stock Data

Capitalization Table	October 4, 2023
Common Shares Outstanding	6,174,280 ¹
Options (WAEP: \$12.04)	835,913 ¹
Warrants (WAEP: \$7.64)	2,266,136 ¹
Fully Diluted Shares Outstanding	9,276,329¹

\$20.8M non-dilutive grant revenue pre-IPO (NIH, DoD, State gov't's)
¹Reflects 1:6 reverse split effectuated June 30, 2023



Balance Sheet	September 30, 2023
Current Assets:	
Cash, Cash Equivalents, Marketable Securities	\$16,831,569
Accounts Receivable	\$0
Prepaid research and development	\$347,565
Prepaid expenses and other current assets	\$371,538
Total Current Assets	\$17,550,672
Total Current Liabilities	\$2,741,806
Working Capital	\$14,808,866
Active grant funding available in accounts held by the U.S. treasury	\$0
Total Working Capital + Available Grant Funds	\$14,808,866

Management Team with Deep Experience in Drug Development and Commercialization

Milton Werner, PhD President & CEO

Previously, Dr. Werner served as Director of Research at Celtaxsys. From September 1996 until June 2007, Dr. Werner was a Head of the Laboratory of Molecular Biophysics at The Rockefeller University in New York City. Throughout his scientific career, Dr. Werner has been an innovator integrating chemistry, physics, and biology into a comprehensive approach to solving problems in medicine. Dr. Werner is the author or co-author of more than 70 research articles, reviews, and book chapters and has given lectures on his research work throughout the world.



Joseph Frattaroli, CPA Chief Financial Officer

Mr. Frattaroli is a certified public accountant with more than 15 years of experience in public company filings and compliance for Nasdaq and OTC Markets companies. Previously, he provided chief financial officer and consulting services for several emerging biopharmaceutical and medical device companies, with responsibilities that included capital formation, deal structuring, and assisting private companies in their transition to becoming publicly traded SEC registrants.



C. Warren Olanow, MD, Medical Consultant and Chief Executive Officer of Clintrex Research Corporation.

Dr. Olanow is the former Henry P. and Georgette Goldschmidt Professor and Chairman of the Department of Neurology at the Mount Sinai School of Medicine. Prior to joining Mount Sinai, he served on the faculties of McGill University, Duke University, and the University of South Florida. He is the former President of the Movement Disorder Society, past President of the International Society of Motor Disturbances, and former Treasurer of the American Neurological Association. He has served on the executive committee of the Michael J. Fox Foundation Scientific Advisory Board, and he is the former Chairman of the Scientific Advisory Board of the Bachmann-Strauss Parkinson Foundation and of the Dystonia Foundation. Dr. Olanow is the former Co-Editor-in-Chief of the journal Movement Disorders. Dr. Olanow received his medical degree from the University of Toronto, performed his neurology training at the New York Neurological Institute at Columbia Presbyterian Medical Center at Columbia University, and undertook postgraduate studies in neuroanatomy at Columbia University and authored more than 600 articles in the field of neurodegeneration.



CLINTREX

Mr. Dennis Berman

- Co-founder, board member, and/or seed investor in many private biotechnology and technology companies, five of which have gone public.
- Currently serves as the President of Molino Ventures, LLC a board advisory and venture capital firm and was co-founder and Executive Vice President of Corporate Development of Tocagen.
- Seed investor, co-founder, and/or board member of Intervu, Kintera, Inc., Gensia, Calabrian

Dr. Milton H. Werner, PhD

- President & CEO, Inhibikase Therapeutics, Inc.

Ms. Gisele Dion

- Senior Vice President, Chief Accounting Officer and Corporate Controller at Takeda Pharmaceutical Ltd
- Senior Advisor to the Chief Financial Officer of Takeda Pharmaceutical Ltd.
- Vice President, Chief Accounting Officer and Corporate Controller at Shire Pharmaceuticals LLC,
- Corporate Controller and Senior Director of Technical Accounting at Biogen Inc.,
- Currently Director and Audit Committee Chair, Cytex Biosciences, Inc.
- Staff Member of the Financial Accounting Standards Board (FASB)
- Audit Advisor Group Member for the Pharmaceutical Research and Manufacturers of America (PhRMA).
- B.S. in Accounting and Management Information Systems from Fairfield University

Dr. Roy Freeman, MD

- Professor of Neurology at the Harvard Medical School and Director of the Center for Autonomic and Peripheral Nerve Disorders in the Department of Neurology at Beth Israel Deaconess Medical Center
- Former chairman of the World Federation of Neurology research group on the autonomic nervous system, former President of the American Autonomic Society, and former chairman of the Autonomic Section of the American Academy of Neurology.
- Editor-in-Chief of Autonomic Neuroscience: Basic and Clinical and on the editorial boards of The Clinical Journal of Pain, Pain: Clinical Updates, and Clinical Autonomic Research.
- Serial founder of several companies in pain and neurodegenerative disease and is on the scientific advisory boards of many large and small pharmaceutical and biotechnology companies.

Dr. Paul Grint, MD

- 20+ years experience in biologics and small-molecule research and development, including the successful approval and commercialization of products in the infectious diseases, immunology, and oncology therapeutic areas.
- Director of Amplyx Pharmaceuticals and Synedgen.
- Served in senior management roles at Cerexa, Forest Laboratories, Kalypsys, Pfizer, IDEC Pharmaceuticals, and Schering-Plough Corporation.
- Fellow of the Royal College of Pathologists and a medical degree from St. Bartholomew's Hospital College, University of London.

Dr. Robert Hauser, MD

Professor of Neurology, University of South Florida College of Medicine - Director USF Parkinson's Disease and Movement Disorders Center

Dr. Jeffrey Kordower, PhD

Founding Director
ASU-Banner Neurodegenerative Disease Research Center (NDRC)
The Charlene and J. Orin Edson Distinguished Director at the Biodesign Institute
Professor of Life Sciences
Arizona State University

Dr. Ken Marek

President and Senior Scientist, Institute of Neurodegenerative Disorders

Dr. Ted Dawson, MD, PhD

Neurodegeneration and Stem Cell Programs, Institute for Cell Engineering, Departments of Neurology, Physiology, Pharmacology, and Molecular Sciences - The Johns Hopkins University School of Medicine

Dr. Valina Dawson, PhD

Neurodegeneration and Stem Cell Programs, Institute for Cell Engineering, Departments of Neurology and Physiology
The Johns Hopkins University School of Medicine

Dr. Warren Olanow, MD, FRCPC

Henry P. and Georgette Goldschmidt Professor and Chairman Emeritus, Mount Sinai School of Medicine
CEO, Clintrex Research Corporation

Dr. Karl Kieburtz, MD, MPH

Robert J. Joynt Professor in Neurology, Senior Associate Dean for Clinical Research, Director of the Clinical & Translational Science Institute, Founder Center for Human Experimental Therapeutics (CHET)- University of Rochester Medical Center
President Clintrex Research Corporation

Dr. Jay Pasricha, MBBS, MD

Director, Johns Hopkins Center for Neurogastroenterology
Professor of Medicine

