



**Inhibikase
Therapeutics**

3Q 2022 | BUSINESS PRESENTATION



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

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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, 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.

Innovative medicines across the therapeutic spectrum

- Novel therapeutics for multiple indications are developed from modeling human disease and discovering both the underlying science causing disease and how to translate that knowledge into new medicines.
- Ikt's therapeutic approach for Parkinson's (PD) and related disorders treats the disease globally in the body. GI manifestation in many patients occurs at an early stage in PD, suggesting that evaluation of GI and brain function could be essential to identifying truly disease-modifying treatments for PD.
- Our lead asset in neurodegeneration is an inhibitor of the Abelson Tyrosine Kinase (c-Abl). Ikt-148009 has been shown to halt and reverses functional loss in slowly progressive validated animal models.
- Innovation in treatment of cancer with alternate methods of drug delivery we believe will lead to safer kinase inhibitor medications. Our first product improves on standard-of-care treatments for certain leukemias.
- Our lead asset in leukemia, Ikt-001Pro, is an inhibitor of BCR-Abl with an anticipated improved safety profile relative to standard of care imatinib mesylate and we intend to compete effectively in the generic marketplace.
- Multiple patent families for lead compounds with expiration of 2033 (leukemia) and 2036 (neurodegeneration) and beyond.
- \$20.8 million in grants and contracts from NIH, DoD, the Michael J. Fox Foundation and the Georgia Research Alliance, all peer-reviewed; \$63 million gross proceeds in investor capital in 2021
- Highly experienced and respected management team, consultants, Board of Directors and nearly all KOLs in the field on Scientific Advisory Board

Multi-Indication Pipeline in Neurodegeneration, Oncology and Infectious Disease

DRUG TARGET	DRUG CANDIDATE	MODALITY	DISEASE INDICATION	CLINICAL DEVELOPMENT ¹				BIOMARKER ³			
				PRECLINICAL DEVELOPMENT	PHASE 1/1B	PHASE 2	PHASE 3	PRECLINICAL TARGET ENGAGEMENT	CLINICAL TARGET ENGAGEMENT	CAN BE USED FOR PATIENT SELECTION	
Neurodegeneration										Yes	
c-Abl	Ikt-148009	Small molecule	Parkinson's Disease: Treatment Naive	[Blue arrow pointing right]							
c-Abl	Ikt-148009	Small molecule	Parkinson's Disease: Early Stage	[Blue arrow pointing right]							
c-Abl	Ikt-148009	Small molecule	Neurogenic Constipation	[Blue arrow pointing right]							
c-Abl	Ikt-148009	Small molecule	Dysphagia	[Blue arrow pointing right]							
c-Abl	Ikt-148009	Small molecule	Multiple System Atrophy	[Blue arrow pointing right]							
Oncology											
BCR-Abl	Ikt-001Pro	Small molecule	Stable-phase CML (orphan indication)	[Blue arrow pointing right]							
Research Phase											
c-Abl	Ikt-148x	Small molecule	Dementia with Lewy Body	[Blue arrow pointing right]							
c-Abl	Ikt-148x	Small molecule	Multiple System Atrophy	[Blue arrow pointing right]							
c-Abl	Ikt-1427	Small molecule	Progressive multifocal leukoencephalopathy	[Blue arrow pointing right]							

(1). 'Clinical Development' progress bars represent the current state of the indicated programs. Blue arrows represent completed or in progress studies; white arrows represent planned approaches for future clinical studies.

(2). Four indications will be pursued for Ikt-148009 in PD, which will be pursued through two INDs, one focused on treatment in the brain in treatment naïve or early-stage patients and the second focused on GI complications. MSA is a Parkinson's-like disease to enter clinical development at Phase 2 sharing the Phase 1 data for 148009 with PD. MSA moves forward in clinic ONLY if animal model study ongoing is positive.

(3). For biomarker status, 'Validated' refers to proof of target engagement in the target tissue which has been performed using rodent tissues and fluids. We are currently developing methods for using clinical samples for validating our ability to confirm target engagement in patients. 'Validating' in this context indicates ongoing efforts to prove target engagement using proprietary sources and methods under development from human tissues and fluids. Target engagement measures if and to what extent a compound occupies its target. 'Can be used for patient selection' refers to our ability to use one or more markers we are currently 'Validating' to screen patients for the presence of that marker as a means of defining the patients most likely to benefit from the proposed treatment.



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Parkinson's Disease Market & Strategy

Parkinson's Disease in the U.S.¹ Large Market, Opportunity For Disease Modification

Chronic Disease for a Long Time
1/3 of a Patient's Lifespan = 25 years

60,000

New Cases / Year

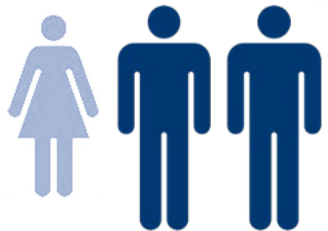
38,000

Deaths / Year

700,000 - 1,000,000
U.S. Patients

60

Average Age Of Onset



Men twice as likely as women to contract disease

Other illnesses complicate development



47%

Arthritis



36%

Heart/Circulatory



35%

Psychosis



30%

Dementia

By 2025, parkinson's disease drug sales are expected to

DOUBLE

Pharma Insights, 2019

Sales estimates by 2025 are expected to crest

\$6.0 BILLION

Pharma Insights, 2019

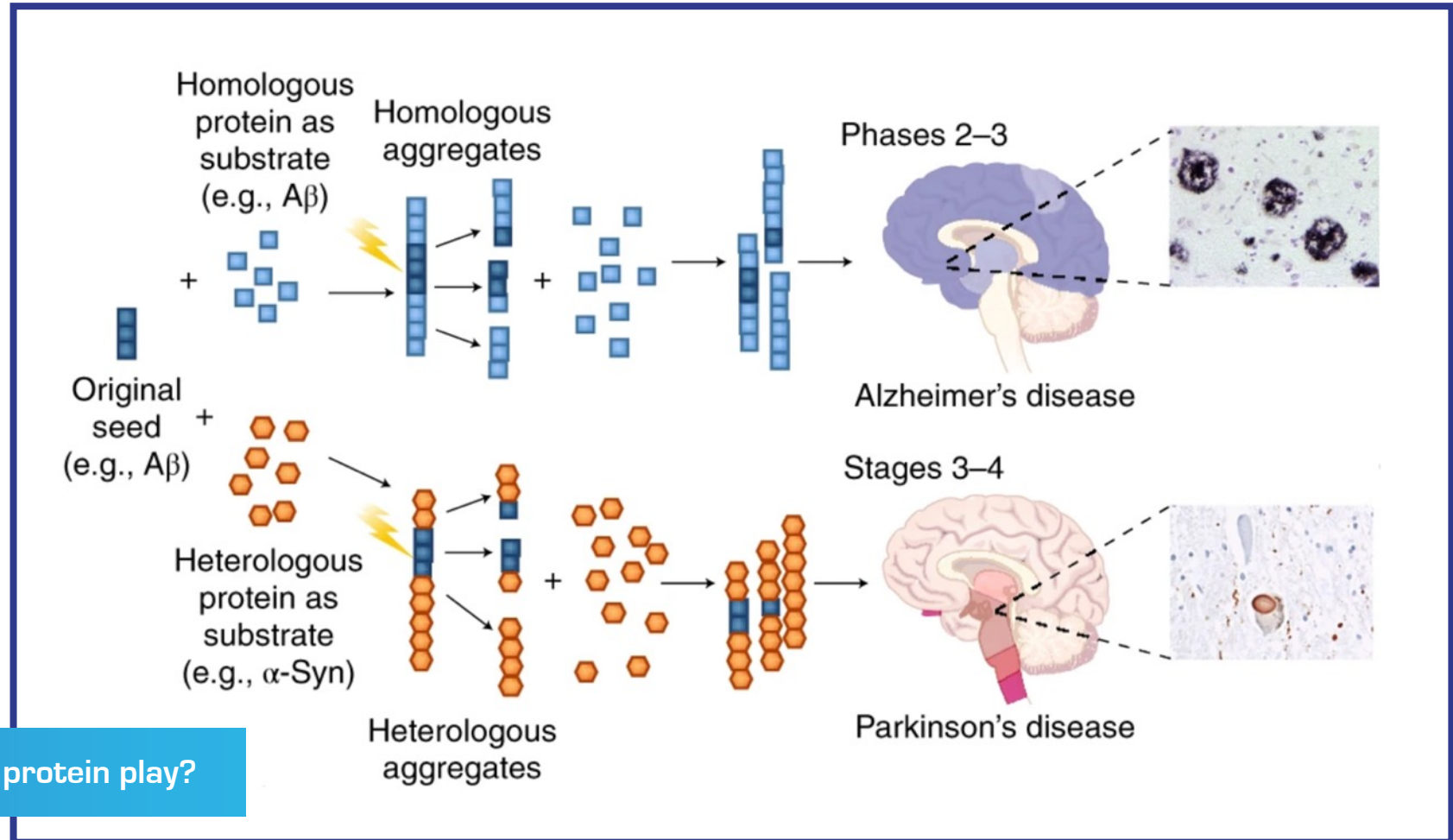
The country with the highest diagnosed prevalence is

THE U.S.

DelveInsight, 2019

¹Parkinson's Disease Foundation Decisions Resources 2016, ParkinsonismRelatDisord . 2012;18:1073-1078, Neuroepidemiology 2010;34:143-151 , J Neurol Neurosurg Psychiatry. 1997 Jan;62(1):10-5.

Causation in Parkinson's and Alzheimer's is closely related¹



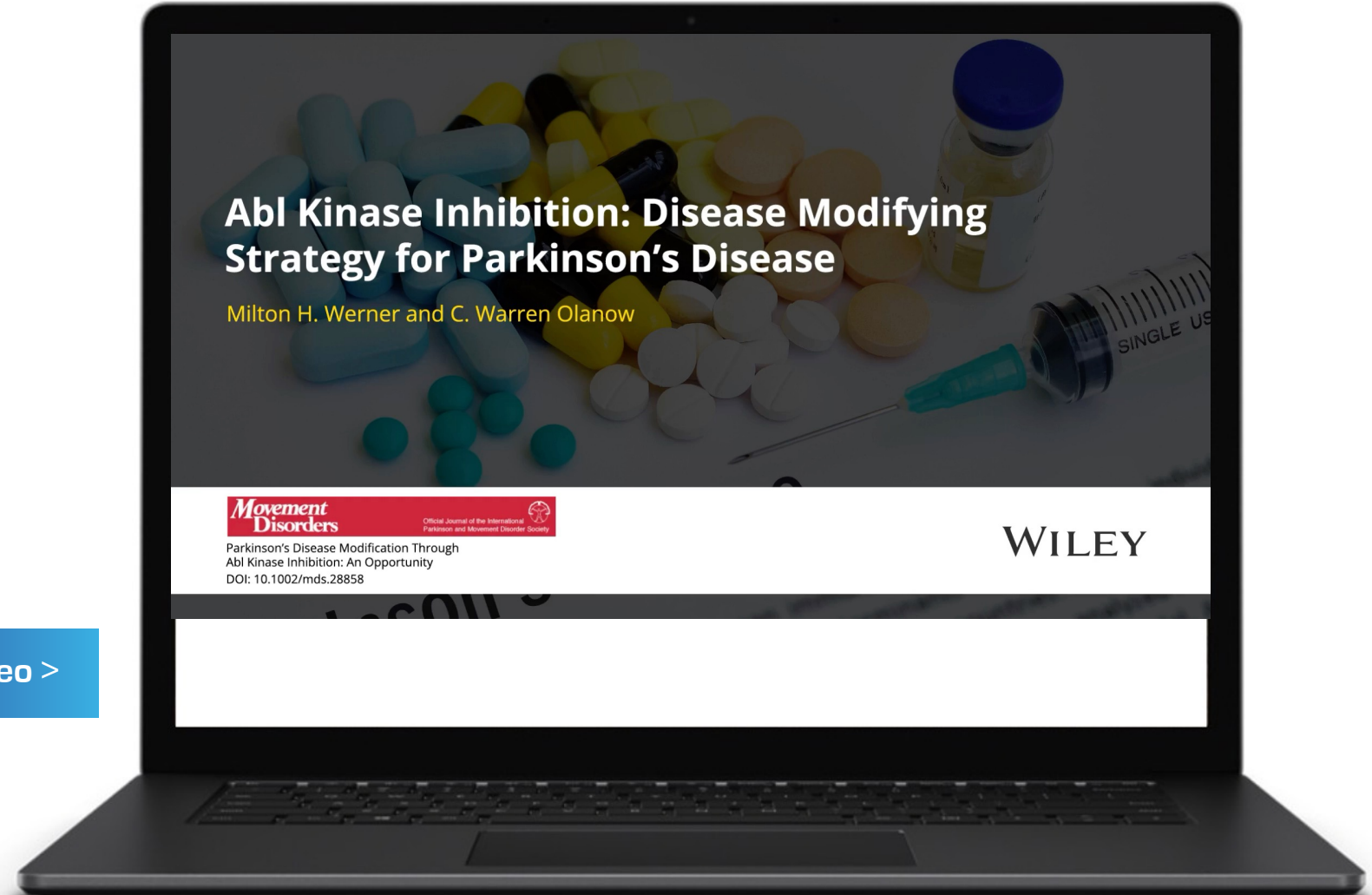
 What role does the misfolded protein play?

¹Nat. Neurosci. 21: 1332-1340 (2018)

Evaluation of the Misfolded Protein 'Seed' in Parkinson's Reveals c-Abl as the Primary Culprit



Play Video >

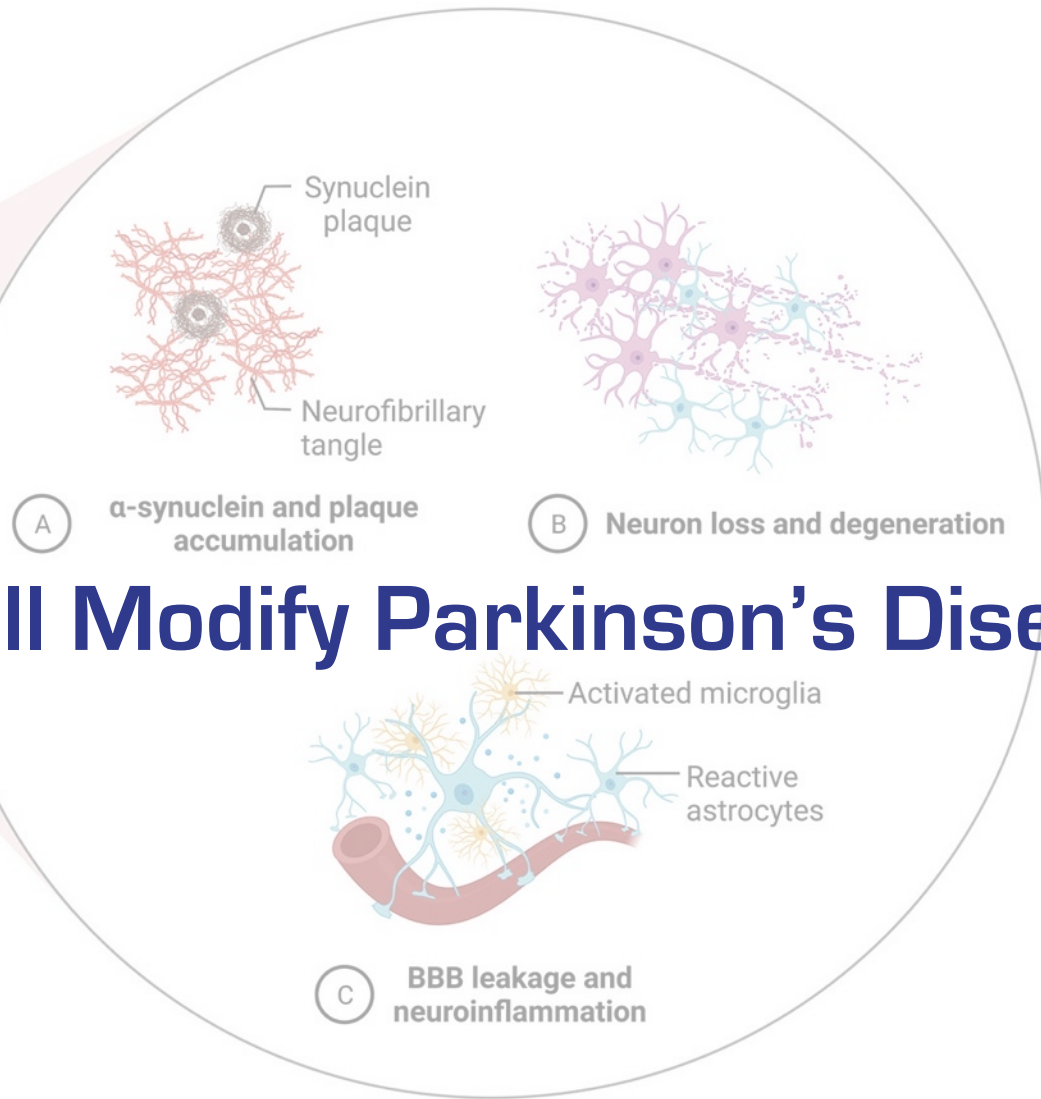




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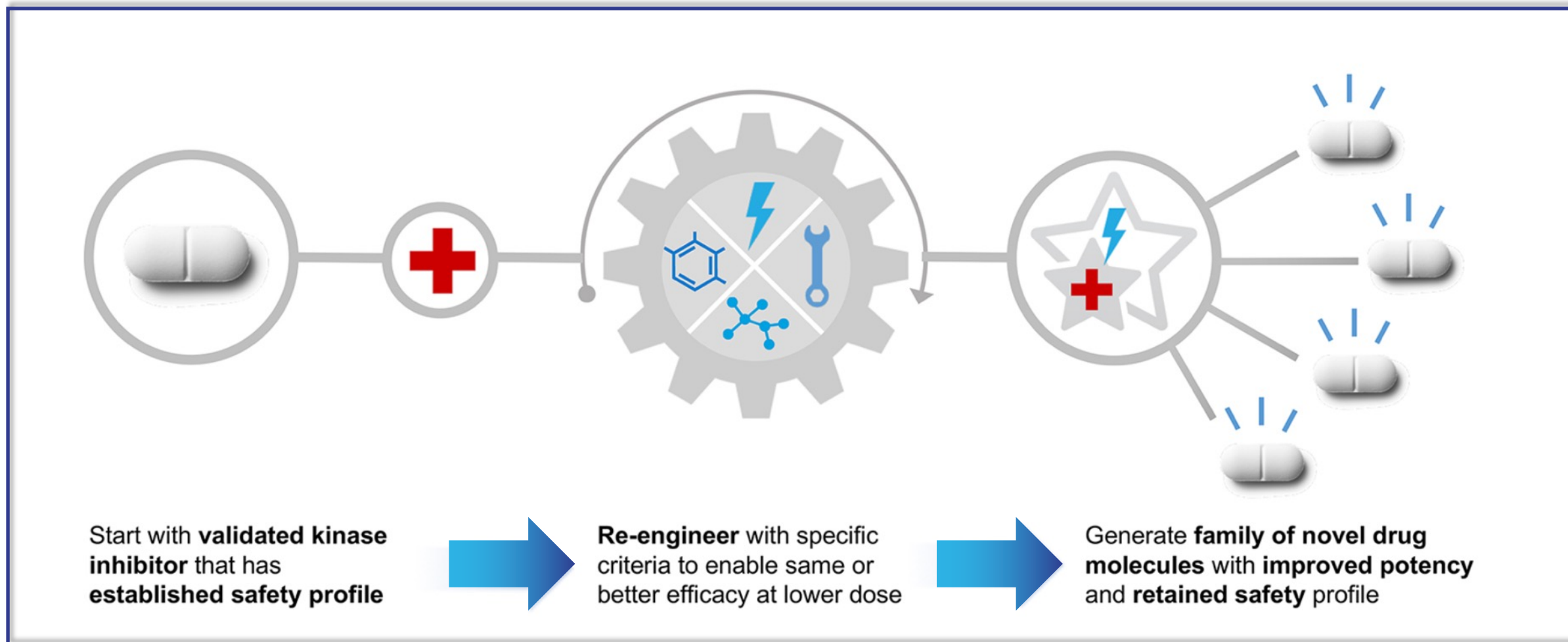


Parkinson's patient



How Inhibikase Will Modify Parkinson's Disease

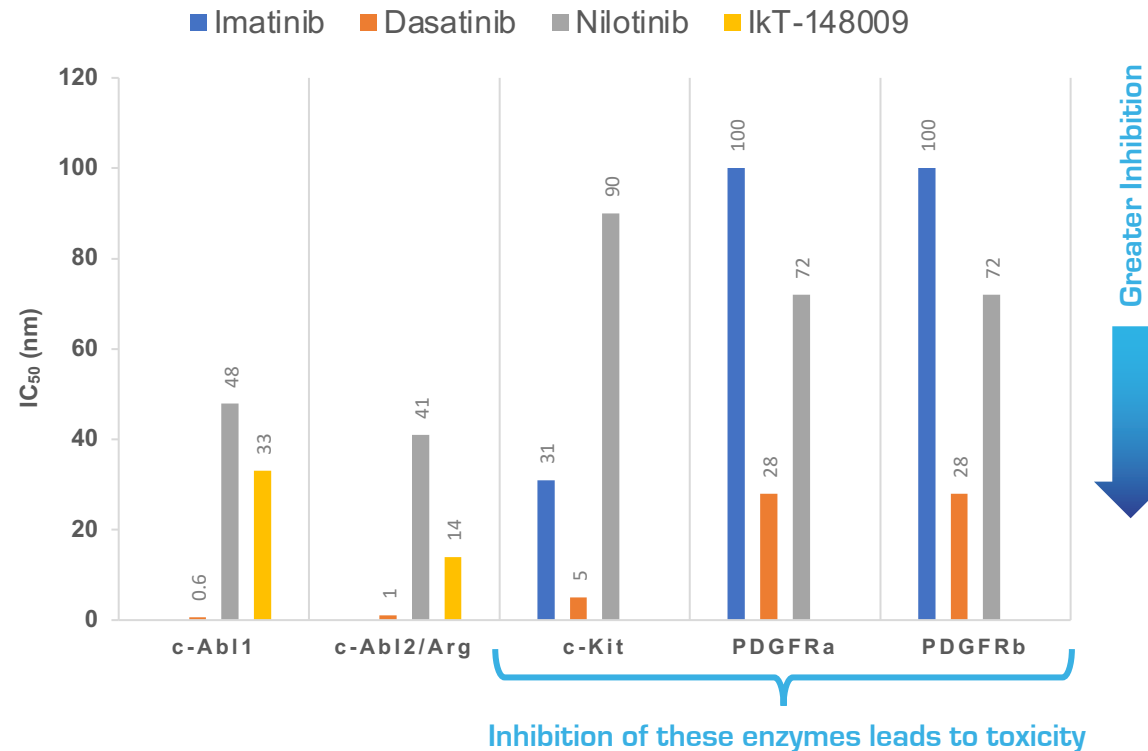
Re-engineering Approach with Metabolism Preserved (RAMPTM)



Low Toxicity, Selective, Brain Penetrant c-Abl Inhibitor in Clinical Development

Ikt-148009
Inhibikase Therapeutics

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



TOXICOLOGY IN RAT/MONKEY¹

Human equivalent dose of 1460 mg

Cardiovascular	None
Renal	None
Liver	None
Bone marrow	None
Sternum	None
Blood	None
PBMCs	Slight increase in neutrophils within normal limits
Cytotoxicity	None in primary or mature cells
Sustained brain concentration	> 1 micromolar

¹13 week and 39 week toxicology data shows Ikt-148009 has a more favorable toxicity profile as dosing is extended

c-Abl inhibition by Ikt-148009 blocks the four pillars of Parkinson's Disease in Validated Animal Models¹



a-Synuclein Toxicity



Ikt-148009
Inhibikase Therapeutics



clears
to baseline in the
organs of disease



Neurodegeneration



Ikt-148009
Inhibikase Therapeutics



preserves
as much as 85%
of brain neurons



Motor Dysfunction



Ikt-148009
Inhibikase Therapeutics



restores
as much as 90%
of lost function



Neuroinflammation



Ikt-148009
Inhibikase Therapeutics



suppresses
to near baseline
in the organs of disease



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Clinical Development in Neurodegeneration



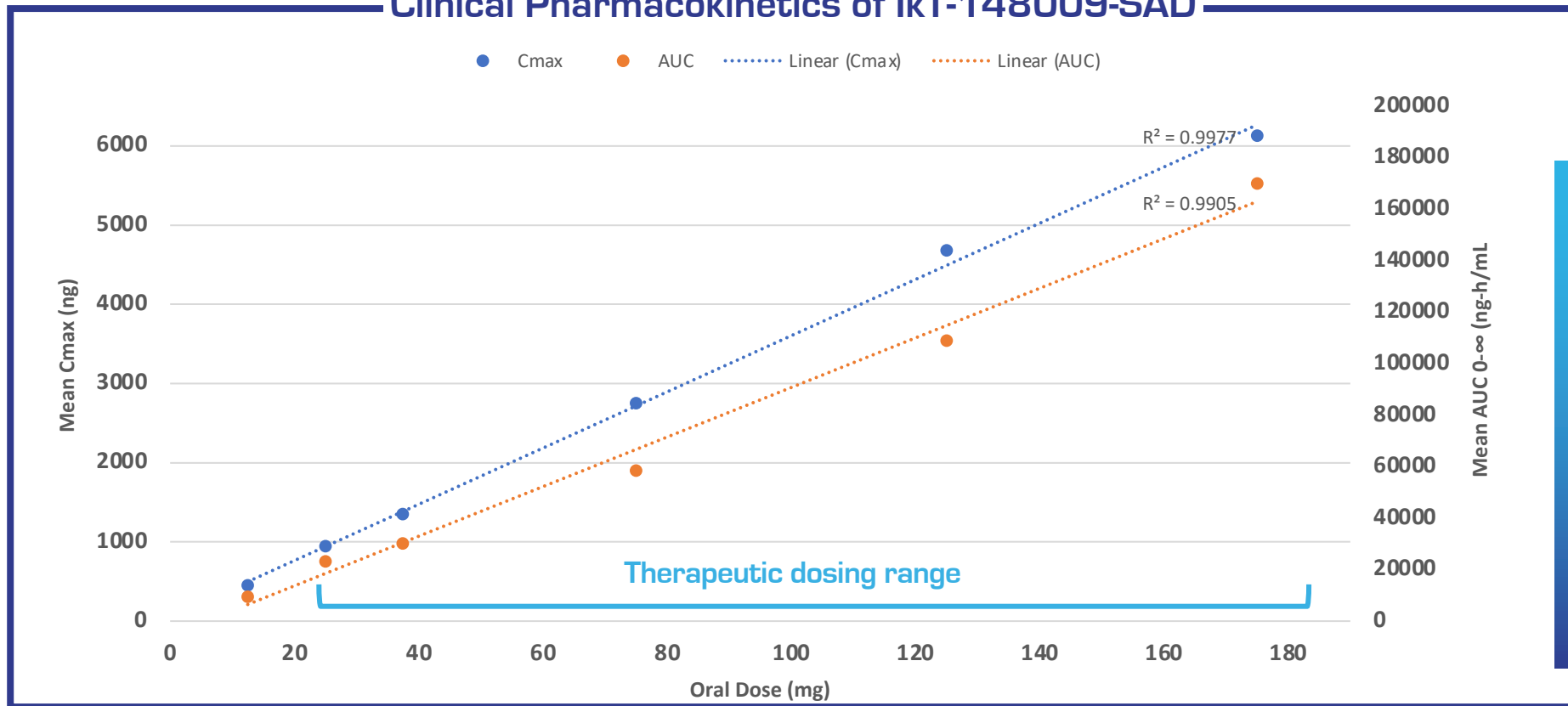
PHASE 1/1B: Dose Proportional Clinical Pharmacokinetics & No Clinically Significant Adverse Events

Category	Demographic	Healthy Subjects Value (% of Total N=88)	Parkinson Patient Value (% of Total, N=13)
Gender	Female	34 (38.6)	6 (42.8)
	Male	54 (61.4)	7 (57.2)
Age	Average (SD)	57.9 (5.72)	62.5
	Median	58.0	62
	Range	45, 69	57, 70
Ethnicity	Hispanic or Latino	13 (14.8)	3 (23.1)
	Not Hispanic or Latino	75 (85.2)	10 (76.9)
Race	Black or African American	54 (61.4)	2 (15.4)
	White	33 (37.5)	11 (84.6)
	Other	1 (1.1)	0 (0)
Adverse events		7 (7.9), all clinically insignificant	5 (38.5)

**No GI
No Cardiovascular
No Hematological**

PHASE 1: Dose Proportional Clinical Pharmacokinetics & No Clinically Significant Adverse Events

Clinical Pharmacokinetics of IkT-148009-SAD



SIGNIFICANCE OF CLINICAL PHARMACOKINETICS

High exposures at low oral dose, linearly dose proportional up to 175 mg. Exposures at 75 mg IkT-148009 comparable to 500 mg imatinib¹

¹FDA summary data for approval 21-335

PHASE 1B: Pharmacokinetics in patients similar to elderly healthy subjects

			T _{1/2} (h)	T _{max} (h)	C _{max} (ng/ml)	AUC ₀₋₂₄ (ng-h/mL)	V _z /F (l)	CL (l/h)
Day 1	Mean	25 mg	15.4	5	1040	12700	32.5	1.52
N=6	SD	Healthy	11.3	4	419	6010	14.7	0.905
Day 7	Mean		27.4	4.67	1770	25400	42.8	1.1
N=6	SD		5.09	1.63	807	9260	15.3	0.384
Day 1	Mean	50 mg	10.1	4.67	1720	19400	37.2	2.51
N=6	SD	PD	2.7	1.03	737	9470	22.8	1.2
Day 7	Mean		24.9	3.67	2560	32500	57.1	1.61
N=6	SD		3.86	1.51	564	8500	12.4	0.312

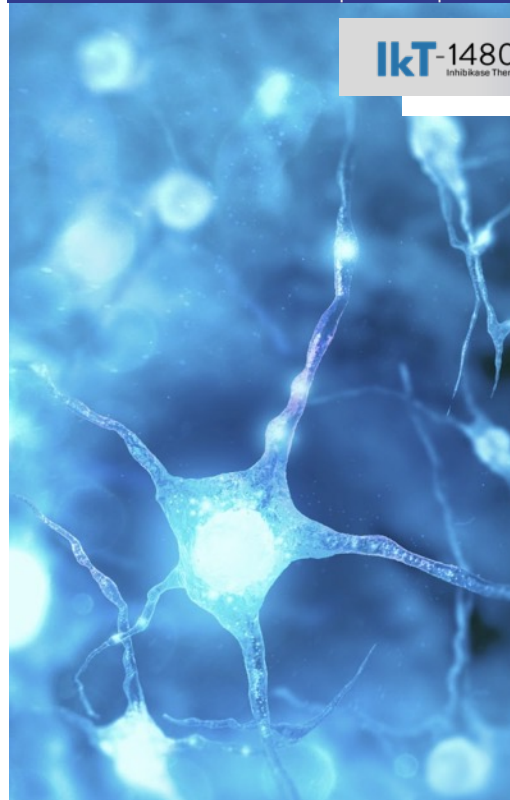
¹FDA summary data for approval 21-335

CLINICAL PHASE 2: '201' Trial



Ikt-148009
Inhibikase Therapeutics

PHASE 2A [Up to 12 months]



Ikt-148009
Inhibikase Therapeutics

PHASE 2A '201' TRIAL / 3 Months Dosing Across 3 Doses

- 3 dosing cohorts, 1 placebo cohort
- 120 patients' total
- 30 patients/dose 3:1 randomized
12-week dosing 1x/day
- Treatment naïve/Early state patients
(H&Y ≤ 3.0)
- Primary endpoints: safety, tolerability
- Secondary endpoints UPDRS II, III, II+III, PGI-S, CGI-S, Epworth Sleepiness Scale, NMSS, PDQ-39, CSBM, PGI-SYM, PAC-QOL, PGI-SYM-QOL
- Exploratory endpoints: Phospho-alpha-synuclein GI, Skin and CSF; Whole Gut Transit Time [SmartPill™]
- Descriptive statistics

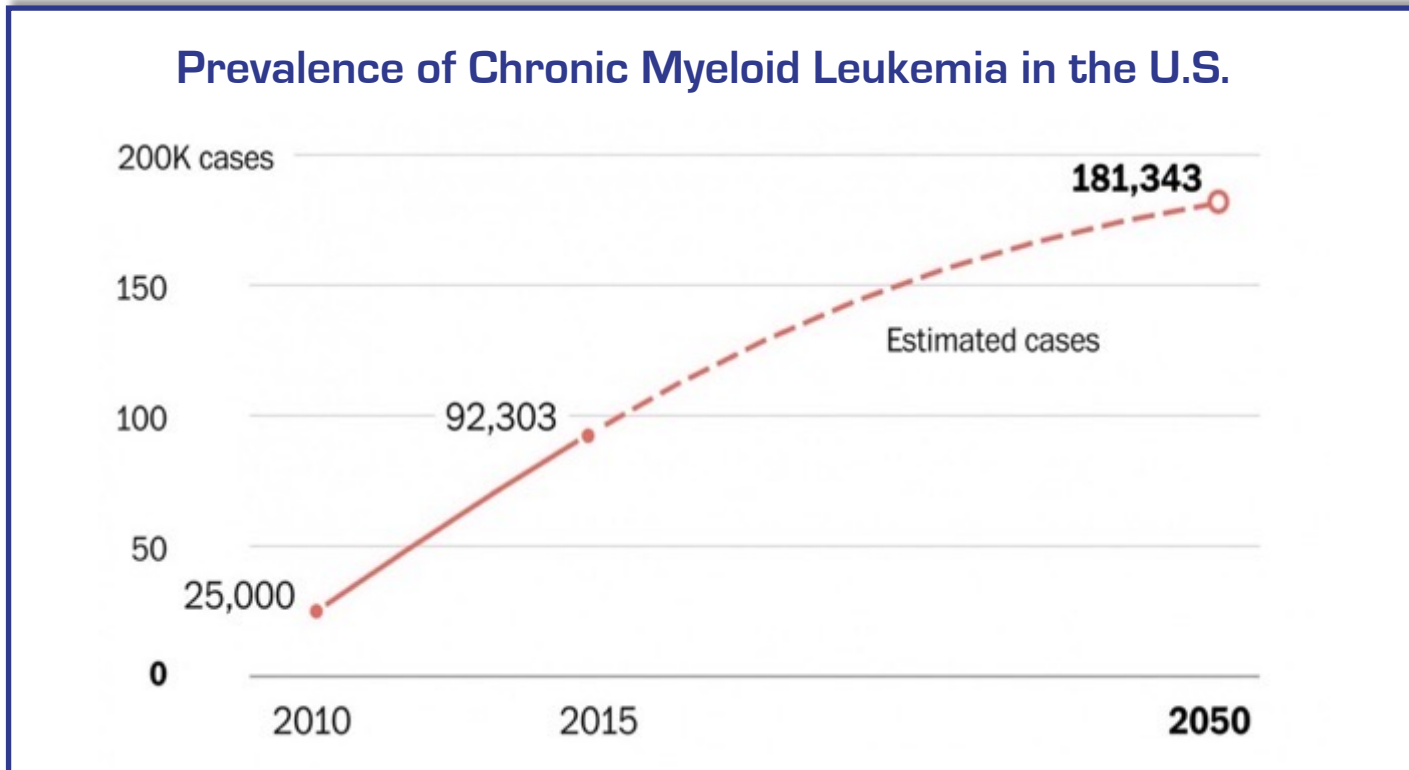
Animal GI Recovery < 4 weeks
Animal Brain Recovery < 8 weeks



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Stable-Phase Chronic Myelogenous Leukemia Market and Strategy

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



- 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 in our view: 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: 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)

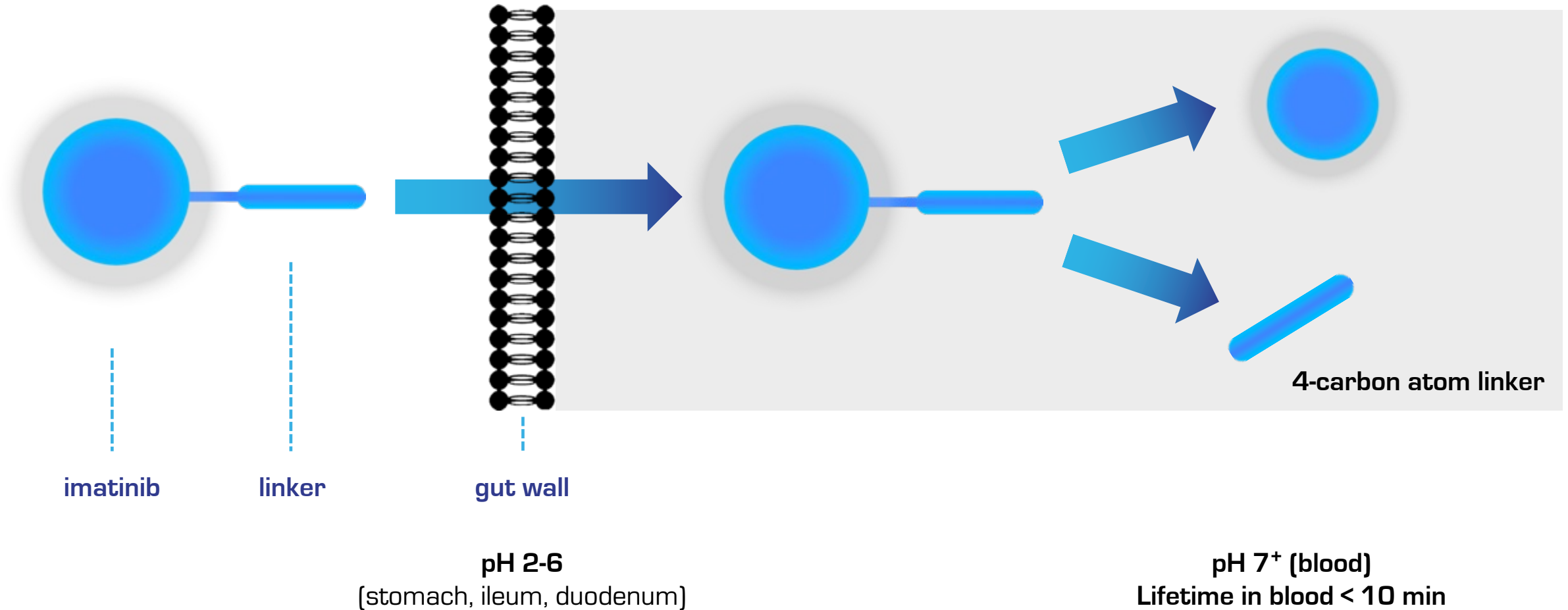
RESULTS SUGGEST THAT:

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

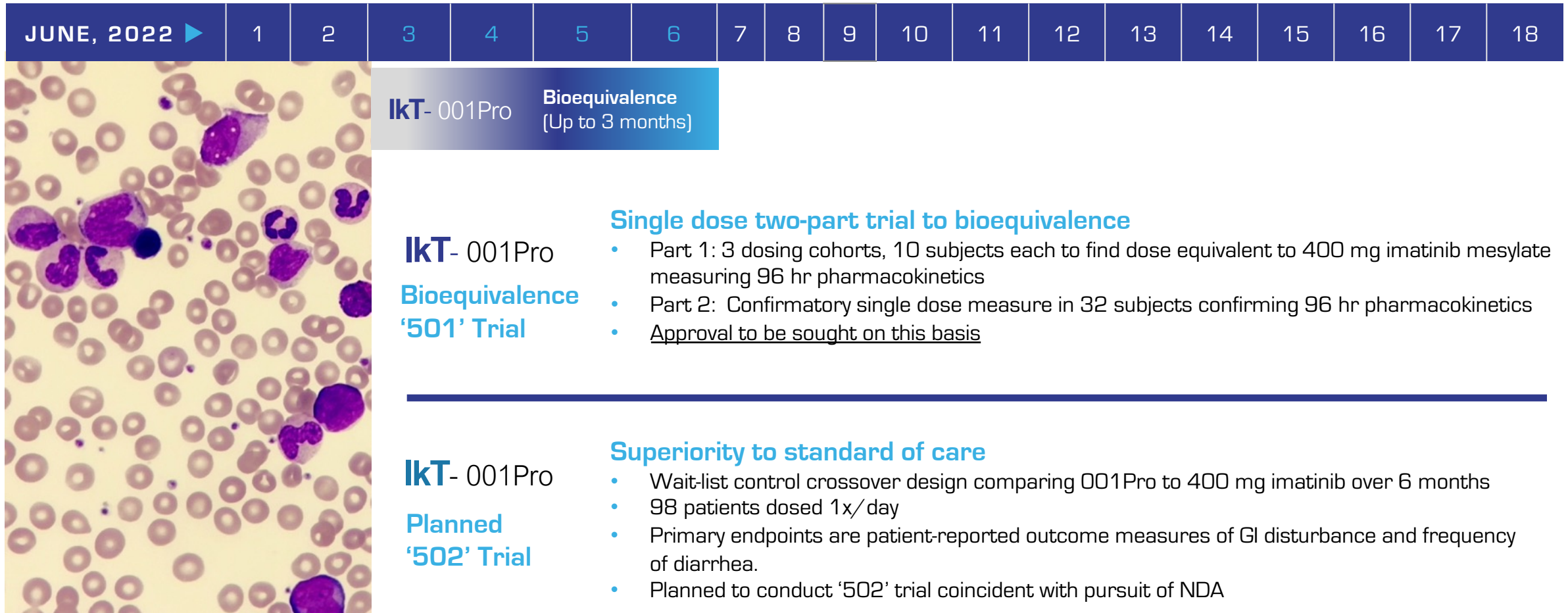
¹FDA summary data for approval 21-335



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



Clinical path to NDA



IKT- 001Pro Bioequivalence (Up to 3 months)

IKT- 001Pro
Bioequivalence '501' Trial

Single dose two-part trial to bioequivalence

- Part 1: 3 dosing cohorts, 10 subjects each to find dose equivalent to 400 mg imatinib mesylate measuring 96 hr pharmacokinetics
- Part 2: Confirmatory single dose measure in 32 subjects confirming 96 hr pharmacokinetics
- Approval to be sought on this basis

IKT- 001Pro
Planned '502' Trial

Superiority to standard of care

- Wait-list control crossover design comparing 001Pro to 400 mg imatinib over 6 months
- 98 patients dosed 1x/day
- Primary endpoints are patient-reported outcome measures of GI disturbance and frequency of diarrhea.
- Planned to conduct '502' trial coincident with pursuit of NDA

Selected Financial and Stock Data

Capitalization Table	June 30, 2022
Common Shares Outstanding	25,227,051
Options (WAEP: \$2.25)	4,238,056
Warrants (WAEP: \$5.21)	1,561,913
Fully Diluted Shares Outstanding	30,622,020

\$20.8M non-dilutive grant revenue pre-IPO (NIH, DoD, State gov'ts)



Balance Sheet	June 30, 2022 (last reporting period)
Current Assets:	
Cash	\$40,750,133
Grants Receivable	\$110,141
Prepaid research and development	\$107,000
Prepaid expenses and other current assets	\$1,502,725
Total Current Assets	\$42,469,999
Total Current Liabilities	\$4,054,450
Working Capital	\$38,415,549
Active grant funding available in accounts held by the U.S. treasury	\$385,888
Total Working Capital	\$38,801,437

Upcoming Milestones: 3Q 2022



- First randomized patient in IkT-148009 Phase 2a study in treatment naive Parkinson's patients
- Initiate food-effect study for IkT-148009 to evaluate pill formulation PK and effect of food on PK
- Complete first of two animal model validation studies of IkT-148009 in MSA
- Seek orphan drug designation in the US for IkT-148009 in MSA, begin process for EU27/UK
- Characterize novel compounds as follow-ons to IkT-148009



- Commence bioequivalence clinical studies following FDA review of the IND
- Design and develop superiority studies for IkT-001Pro relative to standard-of-care
- Identify and begin developing commercial partnership

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, Interim Chief Medical Officer and Chief Executive Officer of CLINTREX.

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. 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.

Ms. Elizabeth O'Farrell

- 25-year career with Eli Lilly and Company, lastly serving as Chief Procurement Officer and Leader, Global Head of Shared Services
- Served in senior management at Lilly including Senior Vice President, Policy and Finance; Senior Vice President, Finance; Chief Financial Officer, Lilly USA; Chief Financial Officer, Lilly Canada; and General Auditor. Before joining Eli Lilly, Ms.
- Director of PDL BioPharma, Geron Corporation and Lensar
- BS in accounting with honors and an MBA in management information systems from Indiana University.

Robert Hauser, MD

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

Jeffrey Kordower, PhD

Alla V and Solomon Jesmer Professor of Aging & Neurological Sciences Rush University Medical Center

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 Clintrex, Inc.

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 Clintrex, Inc.

Dr. Jay Pasricha, MBBS, MD

Director, Johns Hopkins Center for Neurogastroenterology Professor of Medicine





Inhibikase Therapeutics

CONTACT

E: info@inhibikase.com

PH: 678-392-3419

GEORGIA OFFICE

3350 Riverwood Parkway
Suite 1900
Atlanta, GA 30339

MASSACHUSETTS OFFICE

One Marina Park Drive
Suite 1410
Boston, MA 02210