# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

#### FORM 8-K

# CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): October 19, 2021

#### INHIBIKASE THERAPEUTICS, INC.

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-39676 (Commission File Number) 26-3407249 (IRS Employer Identification No.)

3350 Riverwood Parkway SE, Suite 1900 Atlanta, Georgia (Address of Principal Executive Offices)

30339 (Zip Code)

Registrant's Telephone Number, Including Area Code: (678) 392-3419

(Former Name or Former Address, if Changed Since Last Report)

(1 of the 1 wine of 1 of the 1 Address), if Changed Since East Report)					
	he appropriate box below if the Form 8-K filing is intended to Instruction A.2. below):	to simultaneously satisfy the filing obligation	on of the registrant under any of the following provisions ⅇ		
	☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)				
	□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)				
	□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))				
	□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))				
Securit	es registered pursuant to Section 12(b) of the Act:				
	Title of each class	Trading Symbol(s)	Name of each exchange on which registered		
	Common Stock, \$0.001 par value	IKT	The Nasdaq Stock Market LLC		
	by check mark whether the registrant is an emerging growth urities Exchange Act of 1934 (§240.12b-2 of this chapter).	a company as defined in Rule 405 of the Se	curities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of		
Emergi	ng growth company ⊠				
	nerging growth company, indicate by check mark if the registing standards provided pursuant to Section 13(a) of the Exch		nsition period for complying with any new or revised financial		

#### Item 7.01 Regulation FD Disclosure.

On October 19, 2021, Inhibikase Therapeutics, Inc. (the "Company"), made available on the Company's website at www.inhibikase.com a corporate presentation which may be used in presentations to investors and analysts from time to time in the future. A copy of the Company's corporate presentation is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

The information contained in this Current Report on Form 8-K speaks only as of the date hereof. While the Company may elect to update the information in this Current Report on Form 8-K in the future, the Company disclaims any obligation to do so except to the extent required by applicable law.

The information furnished in this Item 7.01 of this Current Report on Form 8-K and Exhibit 99.1 attached hereto shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section. The information in this Item 7.01 of this Current Report on Form 8-K is not incorporated by reference into any filings of the Company made under the Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date of this Current Report on Form 8-K, regardless of any general incorporation language in the filing unless specifically stated so therein.

#### (d) Exhibits.

Number	Description
99.1	Corporate Presentation of Inhibikase Therapeutics, Inc.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

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#### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

INHIBIKASE THERAPEUTICS, INC. Date: October 19, 2021

By: <u>/S/ MILTON H. WERNER</u>
Milton H. Werner, Ph.D.
President and Chief Executive Officer



## **Disclaimer**

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 forwardlooking 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 forwardlooking 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 registration statement on Form S-1, as amended (File No. 333-240036), 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.

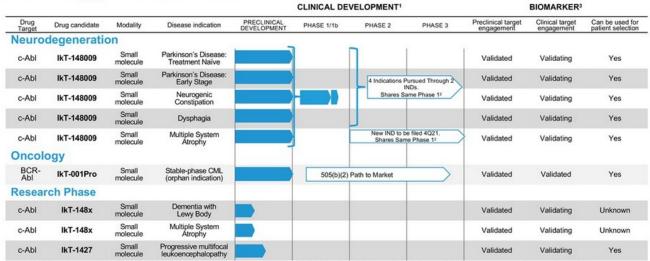
## **Driving Functional Reversal of** Parkinson's Disease

- Five clinical programs in neurodegeneration and one clinical program in oncology
- Multi-therapeutic pipeline with emphasis on neurodegeneration inside and outside of
- Our lead inhibitor of the Abelson Tyrosine Kinase (c-Abl), IkT-148009, halts and reverses functional loss in animal models that recreate progressive human disease
- Phase 1 trial with IkT-148009 reached therapeutic drug exposures seen in animal models at just 25 mg oral dose 1x/day in humans
- Multiple patent families for lead compound with expiration of 2036 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



COMPANY HIGHLIGHTS: MULTI-THERAPEUTIC PIPELINE

## Multi-Indication Pipeline in Neurodegeneration, **Oncology and Infectious Disease**



<sup>&#</sup>x27;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. Four indications will be pursued for likt-148009 in PD, which will be pursued through two INDs, one focused on treatment in the brain in treatment-naive or early-stage patients and the second focused on GI complications. For biomarker status, Validadired refers to proof of target engagement in the target tissue which has been permed using ordent itssues 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.



THE MARKET

# 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/YR

38,000

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

> 60 AVERAGE AGE



Other illnesses complicate development



ARTHRITIS



HEART/CIRCULATORY

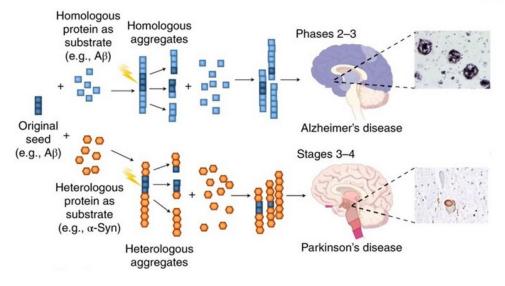


**PSYCHOSIS** 



30% DEMENTIA

## Causation in Parkinson's and Alzheimer's is closely related<sup>1</sup>



What role does the misfolded protein play?

¹Nat. Neurosci. 21: 1332-1340 (2018) Inhibikase Therapeutics 7

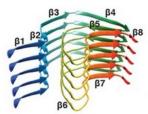
CAUSE OF NEURODEGENERATION

# Evaluation of the Misfolded Protein 'Seed' in Parkinson's Reveals c-Abl as the Primary Culprit, NOT the Misfolded Protein

- Parkinson's Disease (PD) is a neurodegenerative disease which limits function of nerve cells throughout the brain and gut following misfolding of non-essential  $\alpha$ -Synuclein.
- α-Synuclein, an abundant and non-essential protein
  - Normally, α-Synuclein plays a role in neurotransmission by dopamine.
  - In the disease state, α-Synuclein is remodeled into protein aggregates we call plaques, which have been thought to be the cause of disease.
- The Company and it's collaborators have demonstrated that <u>plaques of α-synuclein</u> <u>cannot cause disease on their own</u>.
  - Plagues are internalized and activate c-Abl.
  - c-Abl is actually driving the disease.



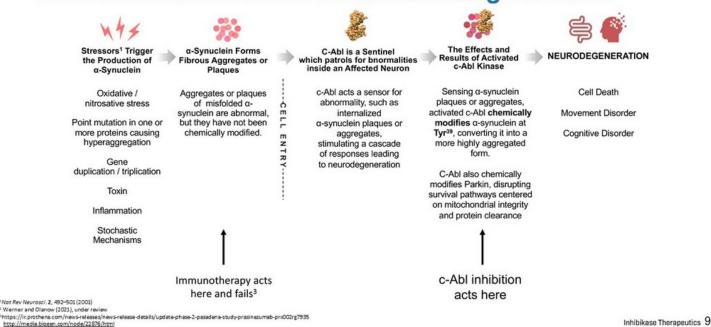
α-Synuclein Is normally in a helix-turn-helix configuration<sup>1</sup>



In the disease state, α-Synuclein reorganizes to form fibrous aggregates ("Plaques")<sup>2</sup>

<sup>1</sup>Biochim Biophys Acta. 1818:1013-8 (2012) <sup>2</sup>Pathogens 7:50 (2018)

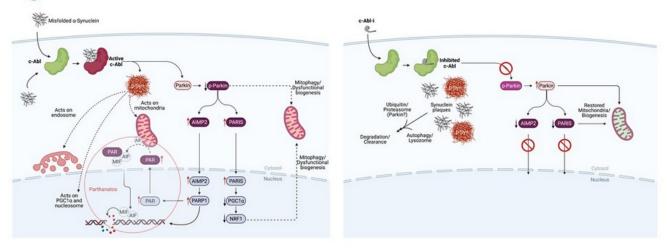
# Stressors Trigger the Production of Misfolded a-Synuclein Which Activates c-Abl to Drive Neurodegeneration<sup>2</sup>



THE PATH TO DISEASE MODIFICATION

http://media.biogen.com/node/22876/html

# **Biochemistry of Parkinson's Disease Initiation and Progression**



Disease process

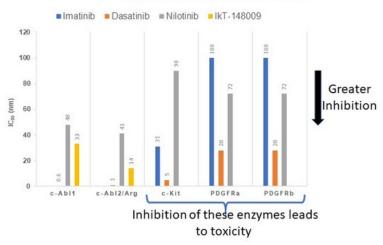
Treatment effect



IKT-148009 IS A SMALL MOLECULE c-ABL INHIBITOR

# IkT-148009: Low Toxicity, Selective, Brain Penetrant c-Abl Inhibitor in Clinical Development



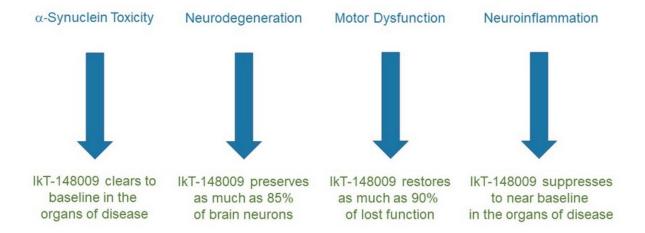


# No organ toxicity High brain penetrance

Human equivalent dose of 600 mg			
Cardiovascular	None		
Renal	None		
iver	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		

See SelleckChem.com, Leuk 23:1689ff (2009)

# c-Abl inhibition by IkT-148009 blocks the four pillars of Parkinson's Disease in Validated Animal Models





# Phase 1: Dose Proportional Clinical Pharmacokinetics and No Clinically Significant Adverse Events

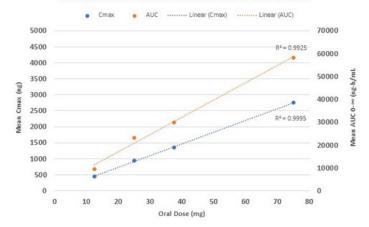
Category	Demographic	Value (% of Total N=56)
Gender	Female	19 (33.9)
	Male	37 (66.1)
Age	Average (SD)	57.2 (6.08)
	Median	57.0
	Range	45, 69
Ethnicity	Hispanic or Latino	8 (14.3)
	Not Hispanic or Latino	48 (85.7)
Race	Black or African American	38 (67.9)
	White	16 (28.6)
	Other - mixed	2 (3.6)
Adverse events		1 (1.8), clinically insignificant, two weeks post-dose

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ILT-148009 PHASE 1 TRIAL IN SAFETY AND DOSING

# Phase 1:Dose Proportional Clinical Pharmacokinetics and No Clinically Significant Adverse Events

#### Clinical Pharmacokinetics of IkT-148009-SAD



#### Human safety to date

No clinically significant adverse events have been observed across 7 dosing cohorts Significance of clinical pharmacokinetics

High exposures at low oral dose, linearly dose proportional up to 75 mg; non-linear above 75 mg. Exposures at 75 mg lkT-148009 comparable to 500 mg imatinib<sup>1</sup>

PDA summary data for approval21-335

# Phase 1: Low Oral Dose in Humans Reaches Therapeutic Exposures of Animal Models

			t <sub>1/2</sub> (h)	t <sub>max</sub> (h)	Cmax	/ AUC <sub>0-∞</sub> \ ) / (h*ng/mL)
		mg/day			(ng/mL)	
IkT-148009 Clinical N=6	Mean	251	25.2	6	1770	25400
lkT-148009	Mean	1.251	12.7	2.2	2562	19650

125 mg/day in humans equivalent to 0.128 mg/day in mouse assuming a 25 g mouse 225 mg/day in 7 day dosing study; values in humans shown at steady-state

#### Therapeutic exposures defined

- Laboratory efficacy studies in mice have an AUC equivalent to clinical exposure at 25 mg/day oral dose.
- Long half-life at low oral dose suggests long-term exposure to drug on a daily basis

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HOW THE GITRACT ILLUMINATES A NOVEL WAY TO TREAT PATIENTS

# Model studies suggest the gut could be where Parkinson's disease originates in the body and is a critical organ for analysis<sup>1</sup>

#### Parkinson's May Begin in the Gut

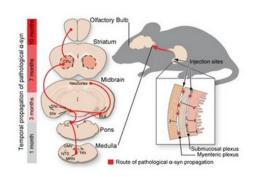
Easy access

Can demonstrate disease benefit with quantitative endpoints Biopsy and Biomarkers Large effect size

## GI disorders resulting from kinase modification of α-synuclein:

Dysphagia Unresolvable constipation Gastroesophageal reflux Gastroparesis

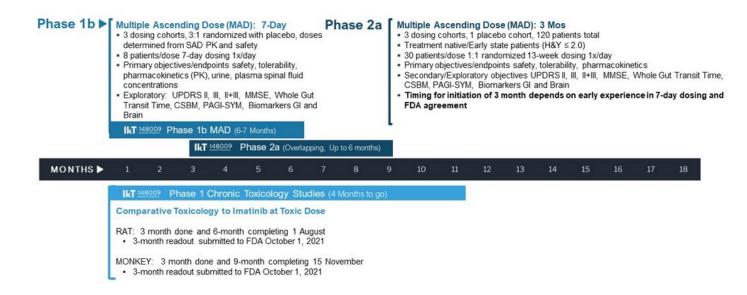
#### The Gut-Brain Connection Enables Innovation in Trial Design



Introduction of synuclein plaque in the **gut leads to progressive disease**in the brain

Neuron 2019; 103:1–15

## **Updated Phases and Development Intervals for 2021**



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25,133,345

COMPANY HIGHLIGHTS

## **Selected Financial and Stock Data**

Capitalization Table	June 30, 2021
Common Shares Outstanding	25,133,345
Options (WAEP: \$2.47)	3,624,658
Warrants (WAEP: \$5.21)	1,561,913
Fully Diluted Shares Outstanding	30,319,916

\$20.4M non-dilutive grant revenue pre-IPO (NIH, DoD, State gov'ts)

Balance Sheet	June 30, 2021			
Current Assets:				
Cash	\$ 46,836,556			
Grants Receivable	\$ 586,581			
Prepaid research and development	\$ 958,779			
Prepaid expenses and other current assets	\$ 833,963			
Total Current Assets	\$ 49,215,879			
Total Current Liabilities	\$ 2,161,527			
Working Capital	\$ 47,054,352			
Active grant funding available in accounts held by the U.S. treasury	772,420			
Total Working Capital	\$ 47,826,772			

# Upcoming Milestones

#### >4Q21

- 148009
  - Complete 125 mg SAD in healthy subjects
  - > Completed 25 mg MAD 7-day dosing in healthy subjects
  - First dosing of Parkinson's patients early 4Q21
  - Fast-Track Designation request under review; outcome before end of 4Q21 anticipated
  - Formulate 148009 into film-coated tablet and assess single dose PK
  - > File MSA regulatory documents with EMA along with Phase 2 protocol
- 001Pro
  - Complete IND
  - > Initiate clinical bioequivalence of 001Pro relative to standard of care
  - Initiate NDA manufacturing planning steps for 001Pro

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ABOUT US

## Management Team with Deep Experience in Drug Development and Commercialization

#### Executive

#### 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.





### **Board of Directors**

#### 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
- Seed investor, co-founder, and/or board member of Intervu, Kintera, Inc., Gensia, Calabrian

#### Dr. Paul Grint, MD

- 20+ years experience in biologics and small-molecule 204 years experience in biologics and sinal-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 Scherica-Playah Corporation.

- Schering-Plough Corporation.
  Fellow of the Royal College of Pathologists and a medical degree from St. Bartholomew's Hospital College, 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.

#### 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.

## Industry-Leading Advisors

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 Neurodegenerative Disorde

#### 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 Stern 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

#### Dr. Karl Kieburtz, MD, MPH

Dr. Nati Nieburi L. mb., mr. 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.

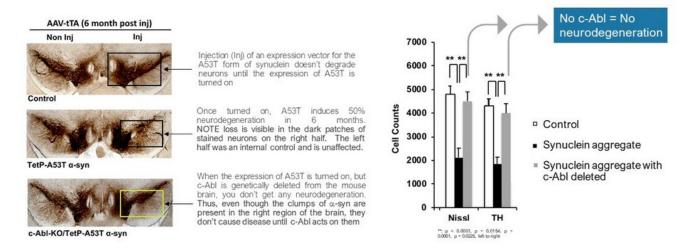
#### Dr. Jay Pasricha, MBBS, MD

Director, Johns Hopkins Center for Neurogastroenterology Professor of Medicine



# α-Synuclein Plaques Do Not Cause Disease Without c-Abl Modification in Humanized Preclinical Models<sup>1</sup>

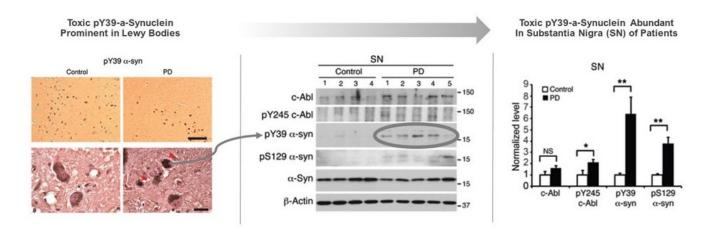
#### α-Synuclein plaque in the ABSENCE OF c-Abl CAUSES NO NEURODEGENERATION AFTER 6 MONTHS



¹Brain 142:280ff (2019) Inhibikase Therapeutics 25

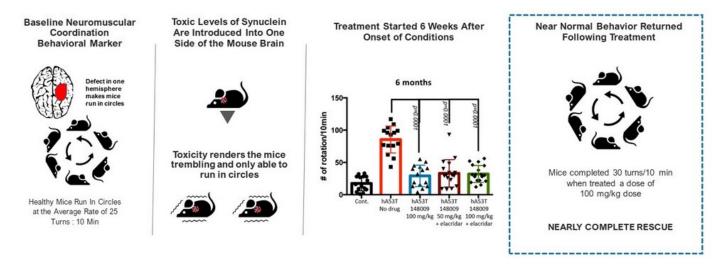
STUDY

## Pathologic, c-Abl-Modified α-Synuclein (pY39) is Present in Parkinson's Patient Brain<sup>1</sup>



UClin Invest. 126, 2970-88 (2016) Inhibikase Therapeutics 26

# Oral IkT-148009 in Mice Humanized for Parkinson's Disease in Brain Reverses Functional Loss

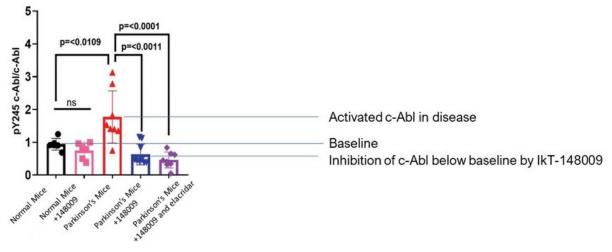


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ILT-148009 ANIMAL STUDY BASIS OF 148009 THERAPY

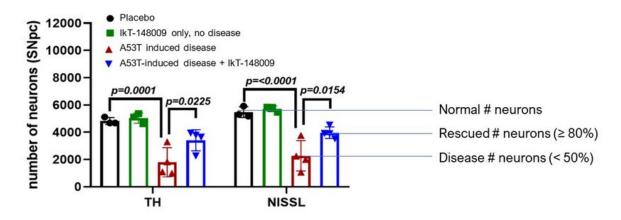
# Oral IkT-148009 Suppresses c-Abl Activation in the Brain that Correlates with Functional Recovery

#### IkT-148009 engages the c-Abl target in the brain



## Oral IkT-148009 Preserves Neural Anatomy in the Brain

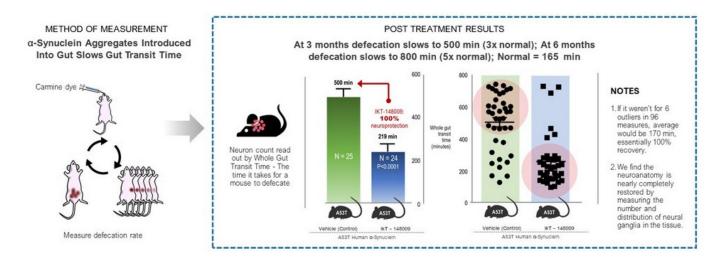
#### IkT-148009 stopped loss of neurons, accounting for functional recovery



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ILT-148009 EVIDENCE OF FUNCTIONAL RECOVERY IN THE GUT

# Oral IkT-148009 in Mice Humanized for Parkinson's Disease in Gut Reverses Functional Loss



ILT-148009 EFFECT ON CAUSE OF DISEASE

# Oral lkT-148009 Treatment Clears Toxic $\alpha$ -Synuclein in the brain and gut

#### Clearance of toxicity in the gut

# Green: Pathological α-synuclein Red: Neural ganglia in gut | IkT-148009 drives clearance of pathological α-synuclein (green dots have been cleared)

#### Clearance of toxicity in the brain

