



**Inhibikase  
Therapeutics**

2024 | BUSINESS PRESENTATION



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

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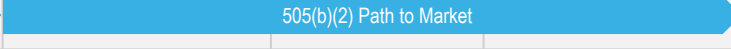



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## Developing innovative medicines across the therapeutic spectrum

- Multi-therapeutic pipeline across neurodegenerative disease, cancer and cardiopulmonary 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, 61% 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. Preliminary outcomes support continuation and expansion of trial.
- **IkT-001Pro**: Prodrug of imatinib mesylate with improved safety/tolerability profile for treatment of 11 blood and stomach cancers. Bioequivalent 501 trial completed and FDA pre-NDA meeting completed January 2024. Planned submission for approval under 505(b)(2). Cardiopulmonary applications to be explored with FDA April, 2024.
- Robust patent portfolio with protection to 2033 (oncology) and 2036 (neurodegeneration).
- Orphan designations: **Rivsodetinib** in Multiple System Atrophy, **IkT-001Pro** in multiple oncology indications and pulmonary arterial hypertension.
- Cash/cash equivalent runway into 1Q25.
- Highly-experienced management team, consultants, Board of Directors and Scientific Advisory Board

# Multi-Indication Pipeline in Neurodegeneration, Oncology and Non-oncology Indications

DRUG TARGET	DRUG CANDIDATE	MODALITY	DISEASE INDICATION	CLINICAL DEVELOPMENT <sup>1</sup>			
				PRECLINICAL DEVELOPMENT	PHASE 1/1B	PHASE 2	PHASE 3
<b>Neurodegeneration</b>							
c-Abl	Risvodetinib	Small molecule	Parkinson's Disease: Treatment Naive				
c-Abl	Risvodetinib	Small molecule	Parkinson's Disease: Early Stage				
c-Abl	Risvodetinib	Small molecule	Neurogenic Constipation				
c-Abl	Risvodetinib	Small molecule	Dysphagia				
c-Abl	Risvodetinib	Small molecule	Multiple System Atrophy				
<b>Oncology</b>							
BCR-Abl	Ikt-001Pro	Small molecule	Stable-phase CML (orphan indication)				
<b>Research Phase</b>							
c-Abl	Ikt-148x, BIP 4-7	Small molecule	Dementia with Lewy Body				
c-Abl	Ikt-148x, BIP4-7	Small molecule	Multiple System Atrophy				
c-Abl	Ikt-001Pro	Small molecule	Pulmonary Arterial Hypertension				

(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 studies of treatment naïve and early-stage patients, including their GI complications. MSA is an orphan, aggressive form of Parkinson's-like disease to enter clinical development at Phase 2 following completion and positive outcomes from animal model studies of Ikt-148009 in prophylactic and therapeutic dosing studies.

4 Indications Pursued Through 2 INDs. Shares Same Phase 1 and 2<sup>2</sup>

Pursued through open IND in the US and future EMA filing in EU



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# Parkinson's and Related Disorders

# Parkinson's disease and MSA in the U.S.<sup>1</sup>

## 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. Patients<sup>1</sup>**

**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.**

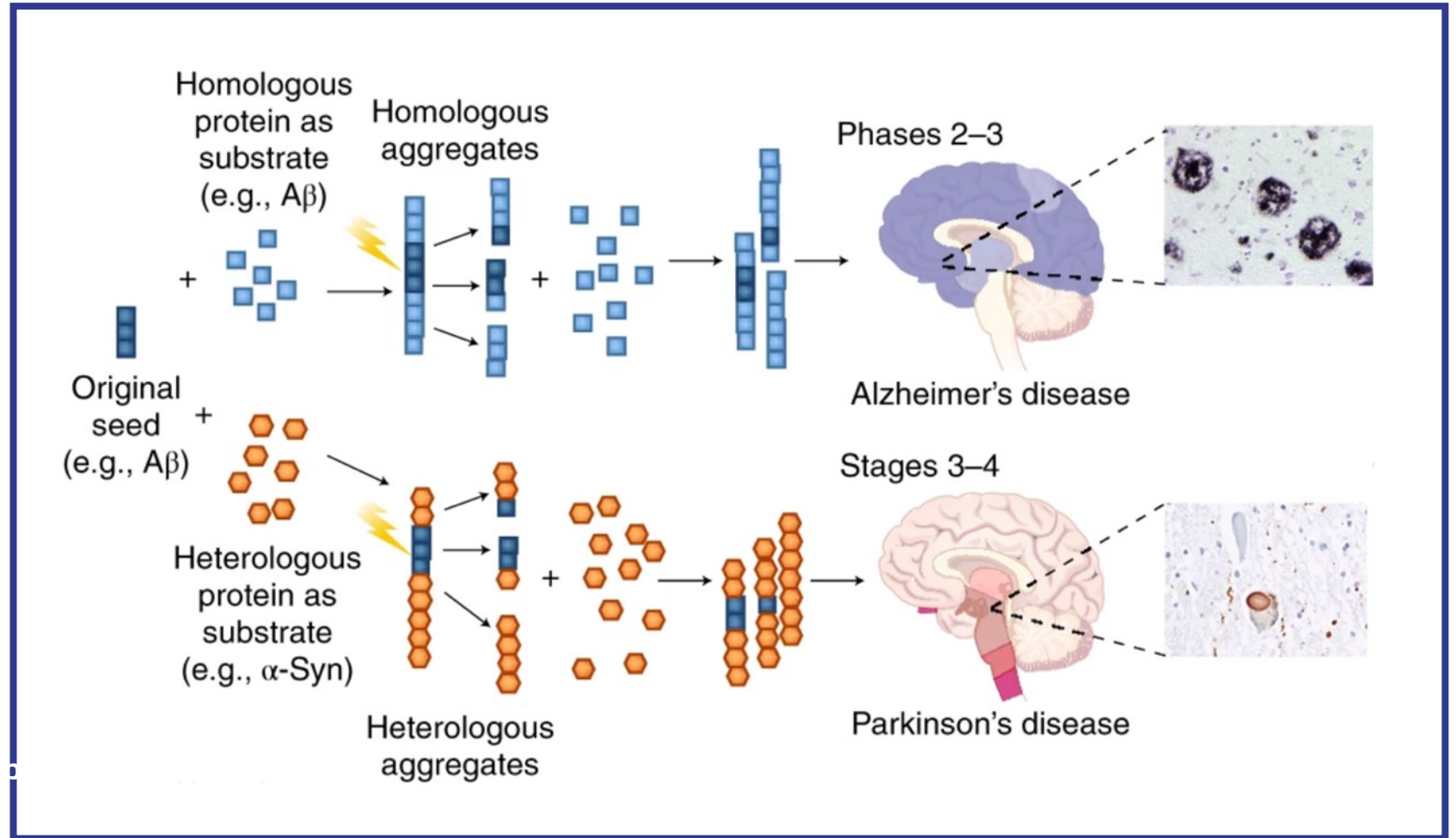
Vision Research, 2022

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

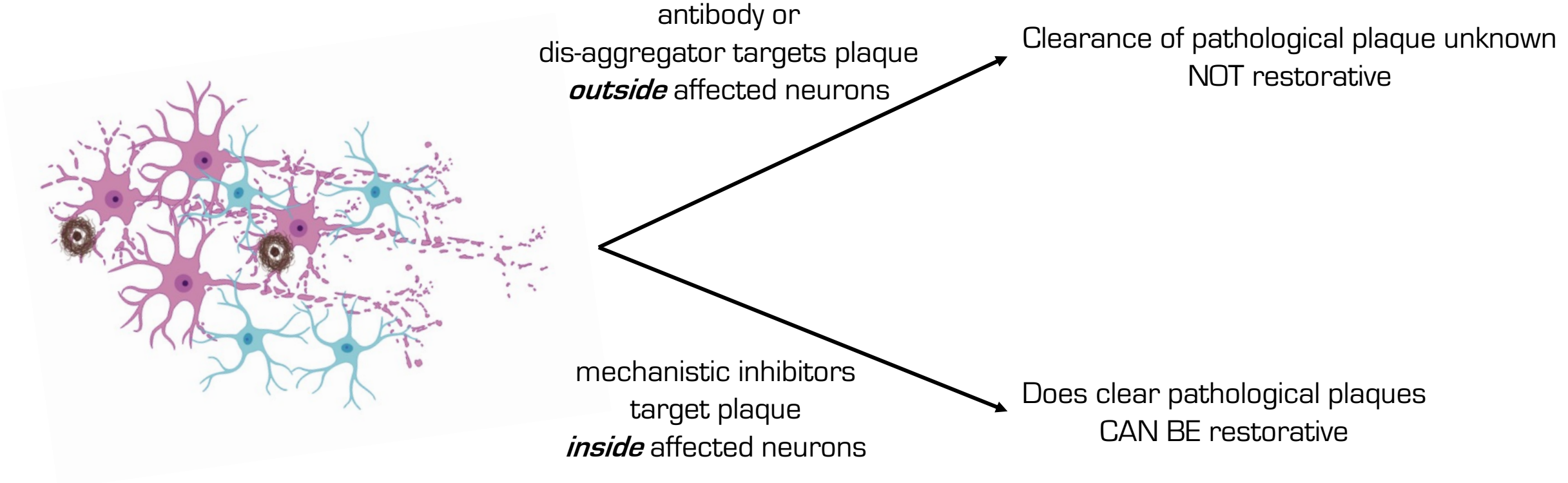
Different proteins, similar pathological effect

**$\beta$ -amyloid and Tau in Alzheimer's**

**$\alpha$ -synuclein in PD, MSA, DLB**



<sup>1</sup>Nat. Neurosci. 21: 1332-1340 (2018)

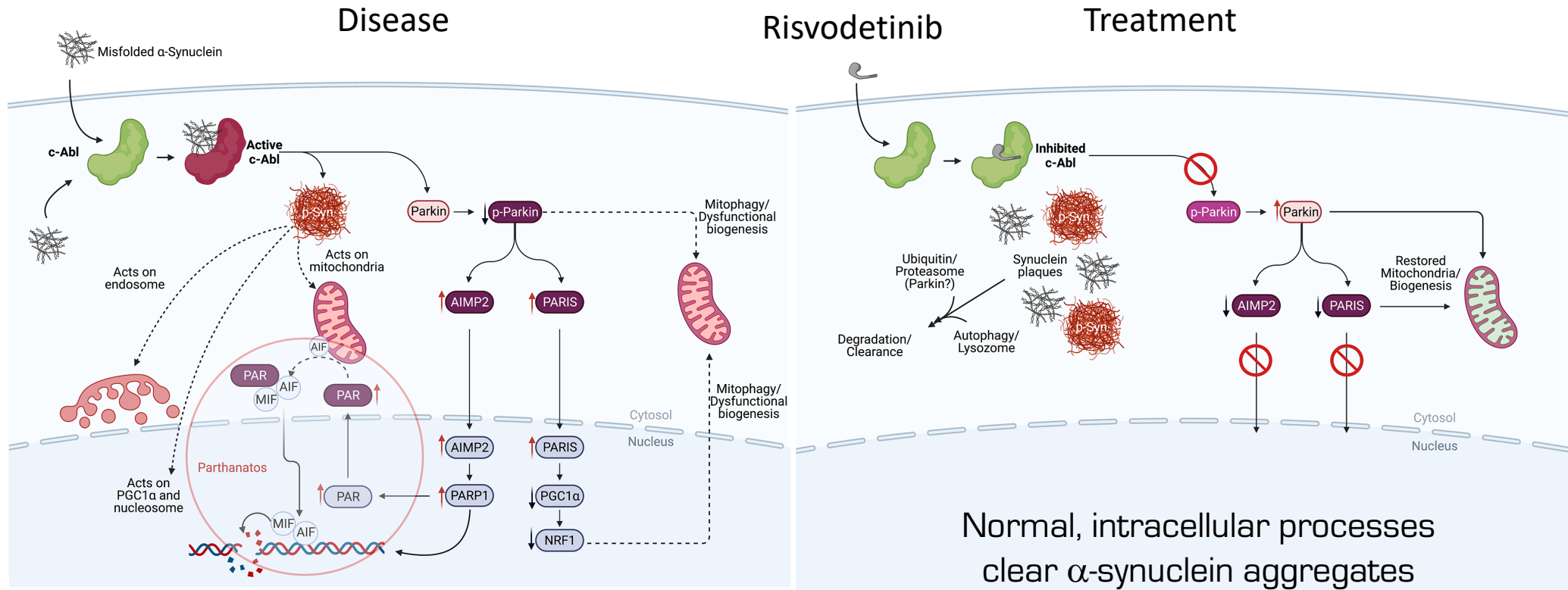


➤ Risvodetinib, an inhibitor of c-Abl

## How does Risvodetinib work?

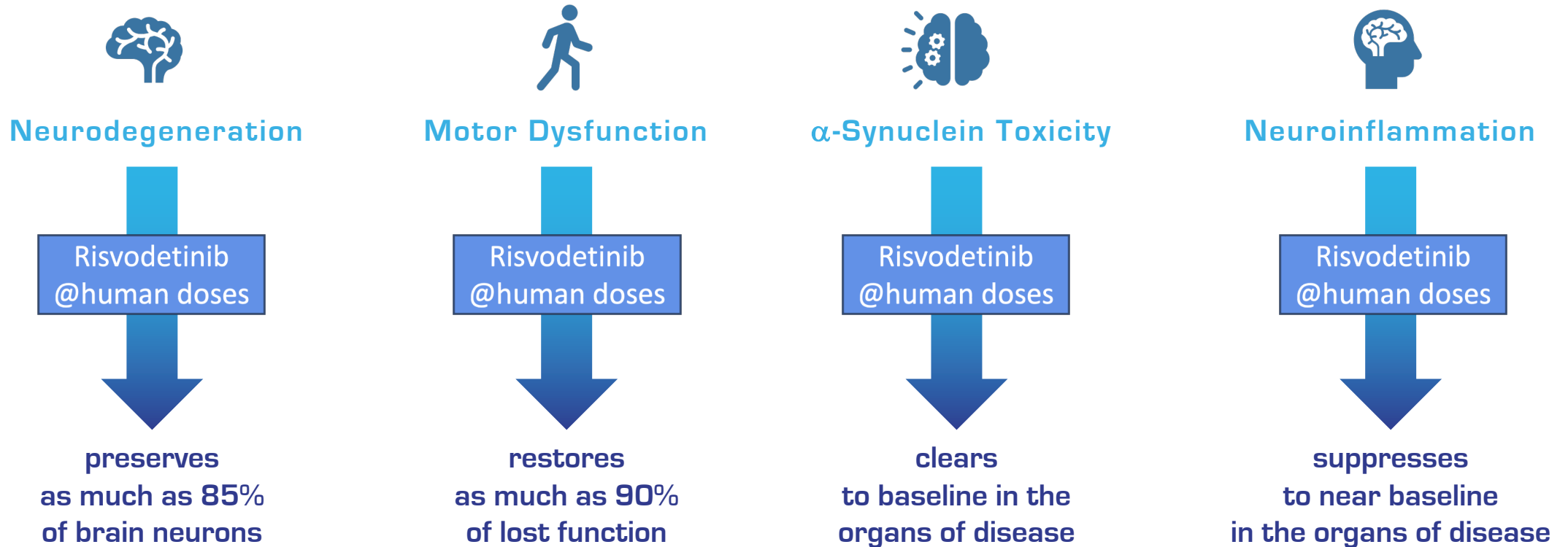


# Biochemistry of disease initiation and its treatment response<sup>1</sup>



<sup>1</sup>Werner and Olanow **37**, 6-15 (2022)

# c-Abl inhibition by Risvodetinib restores lost function in Validated Animal Models of Parkinson's disease<sup>1</sup>



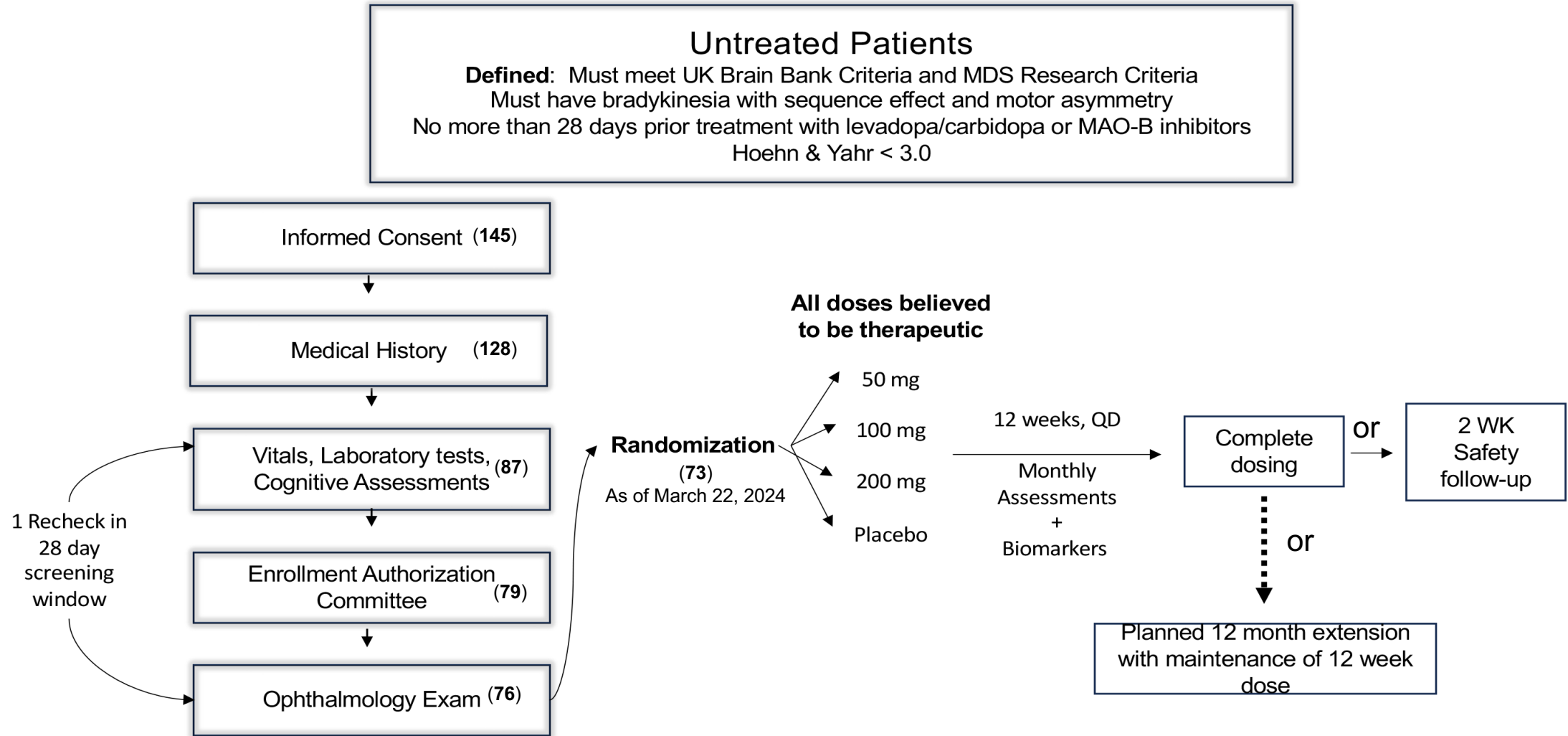
<sup>1</sup>Werner and Olanow, Mov Disorders 2021, doi: 10.1002/mds.28858  
Karuppagounder, Werner, et al., Sci Transl. Med 2023 doi: 10.1126/scitranslmed.abp9352



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# The 201 Trial evaluating Risvodetinib in Untreated Parkinson's Disease



	<b>Measure</b>	<b>Untreated Patients (% of Total) N=73</b>
<b>Gender</b>	Female	31 (42.5)
	Male	42 (57.5)
<b>Age</b>	Median Male/Female	64/64
	Range Male/Female	43-79/50-74
<b>Ethnicity</b>	Not Hispanic or Latino	68 (93.2)
	Hispanic or Latino	5 (6.8)
<b>Time since PD diagnosis</b>	Median (months)	7.3
	Range (months)	1 - 49.1
<b>MDS-UPDRS at baseline</b>	Part III	23.5±9.3
	Part II	6.8 ± 4.4
	Part I	5.2 ± 3.9

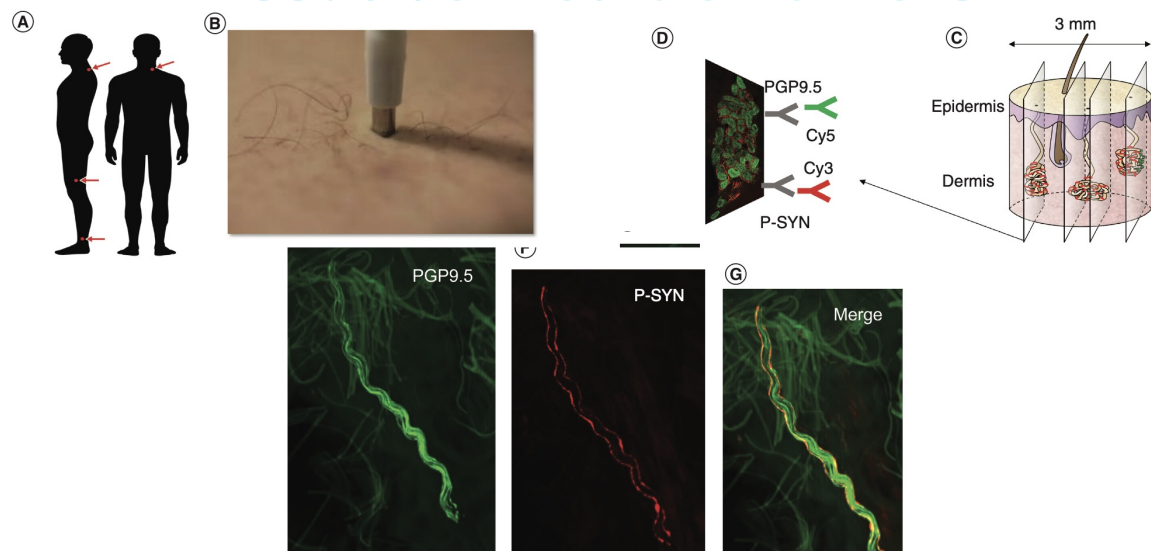
17 total AEs that may be treatment related

	<b>Measure (# occurrences)</b>	<b>Severity</b>
<b>Gastrointestinal</b>		
	Vomiting (3)	Mild (2)/Moderate (1)
	Gas/Cramps (2)	Mild (2)
	Heartburn (1)	Mild
	Diarrhea (3)	Mild
<b>Cardiovascular</b>		
	Abnormal ECG (1)	Mild
	Orthostatic hypotension (1)	Mild
<b>Laboratory</b>		
	Elevated Lipase (1)	Mild
	Elevated Creatinine (1)	Mild
<b>Psychological/ Neurological</b>		
	Irritability (1)	Mild
	Migraine (1)	Mild
	Worsening Parkinson's (1) (non-compliant dosing)	Moderate
	Increased energy (1)	Mild

Assessment <sup>1</sup>	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
<b>PGI-S</b>	-0.33	0	-1	-0.33	0	0	0	-0.33
<b>CGI-S</b>	0.33	-0.5	-2	-0.33	0.33	-2	-0.67	-0.33
<b>PDQ-39</b>	-1	0	-3.5	-8.3	-0.67	0	-1.67	ND
<b>UPDRS II</b>	-0.33	1	-0.33	-0.66	-0.33	0	-4.33	0
<b>UPDRS III</b>	0.33	-1	-4	-0.33	2	-1.33	-4.33	-10.4 1.7
<b>II + III</b>	0	0	-4.3	-0.99	1.67	-1.33	-8.67	1.7
<b>NMSS</b>	-1.33	-2	-0.5	0.66	-3.67	-1	1	-6.6 0
<b>S&amp;E ADL</b>	0	0	-5	6.7	0	-5	-3.33	3.33
<b>ESS</b>	ND	ND	ND	ND	-0.33	-0.5	1.67	-1

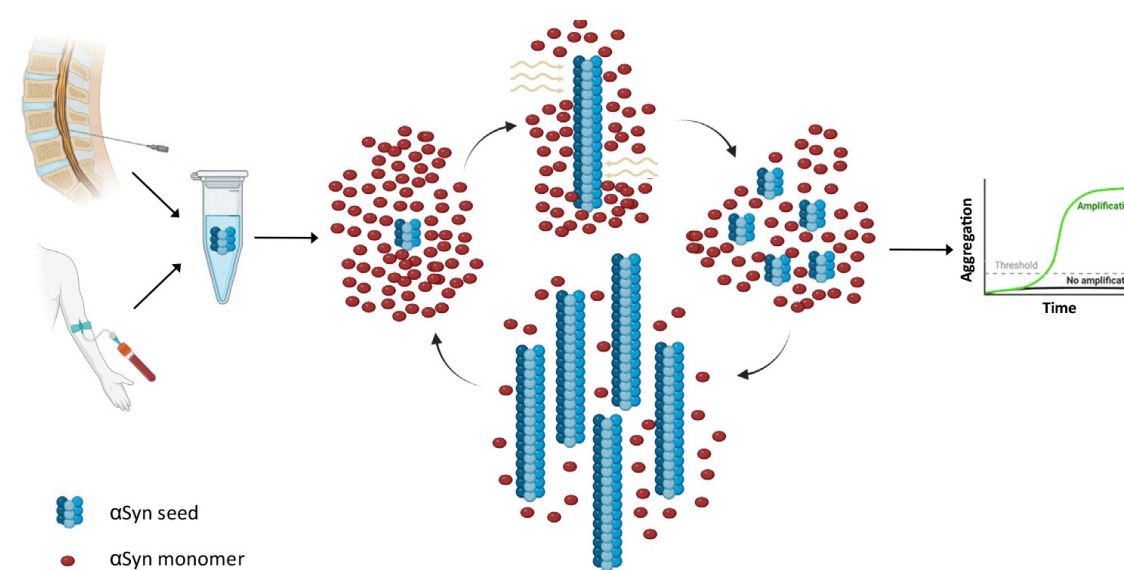
<sup>1</sup>Lower numbers (or negative changes) may suggest improvement

## Tissue-derived biomarkers



Tissue biopsy is collected at three locations on the body using a 3mm ‘punch’. The tissue samples are shipped to a standardized testing lab and processed with two antibodies. One highlights axons for intraepidermal nerves and the second highlights pathological alpha-synuclein. Fluorescent dyes colorize the synuclein deposits in the tissue for quantification. Adapted from *Biomark.Med.*(2022)16(7),499–509.

## Blood and CSF biomarkers



Seed amplification uses the small quantities of alpha-synuclein aggregates in the CSF as a ‘seed’ for an amplification process. The amplification process is achieved by feeding alpha-synuclein monomers into a cyclic ‘shaking’ routine to amplify the seeds into longer molecules that can be detected by fluorescence. Adapted from <https://doi.org/10.1016/j.tibtech.2024.01.007>

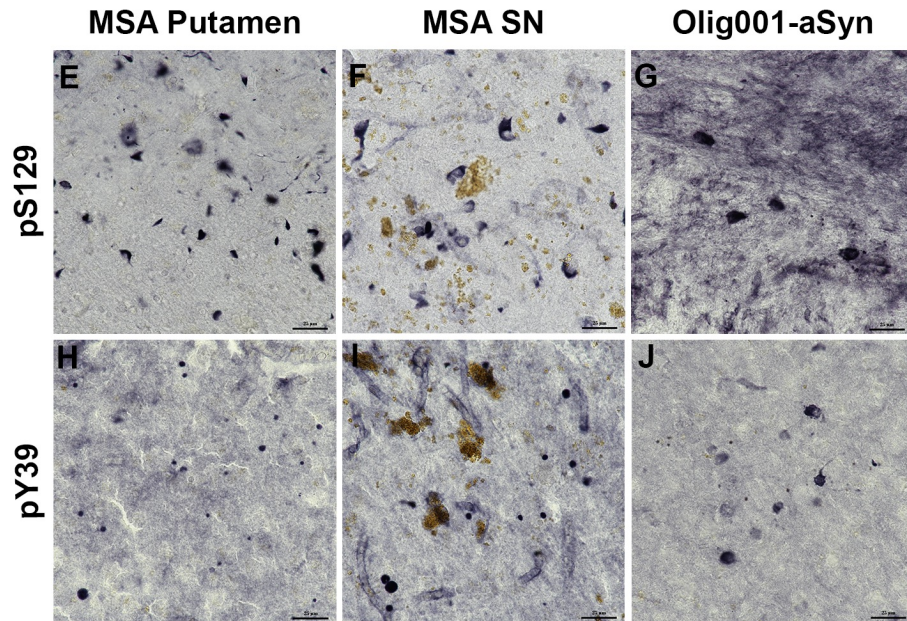


## c-Abl in other neurodegenerative disease

MSA<sup>1</sup>

AD

ALS



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 PLoS One. 2014 ;9(3):e92309  
 Curr Alzheimer Res. 2011;8(6):643-51.  
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 J Alzheimers Dis. 2011;25(1):119-33.  
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J Neurol Sci. 2018;393:80-82  
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 PLoS One. 2012;7(9):e46185

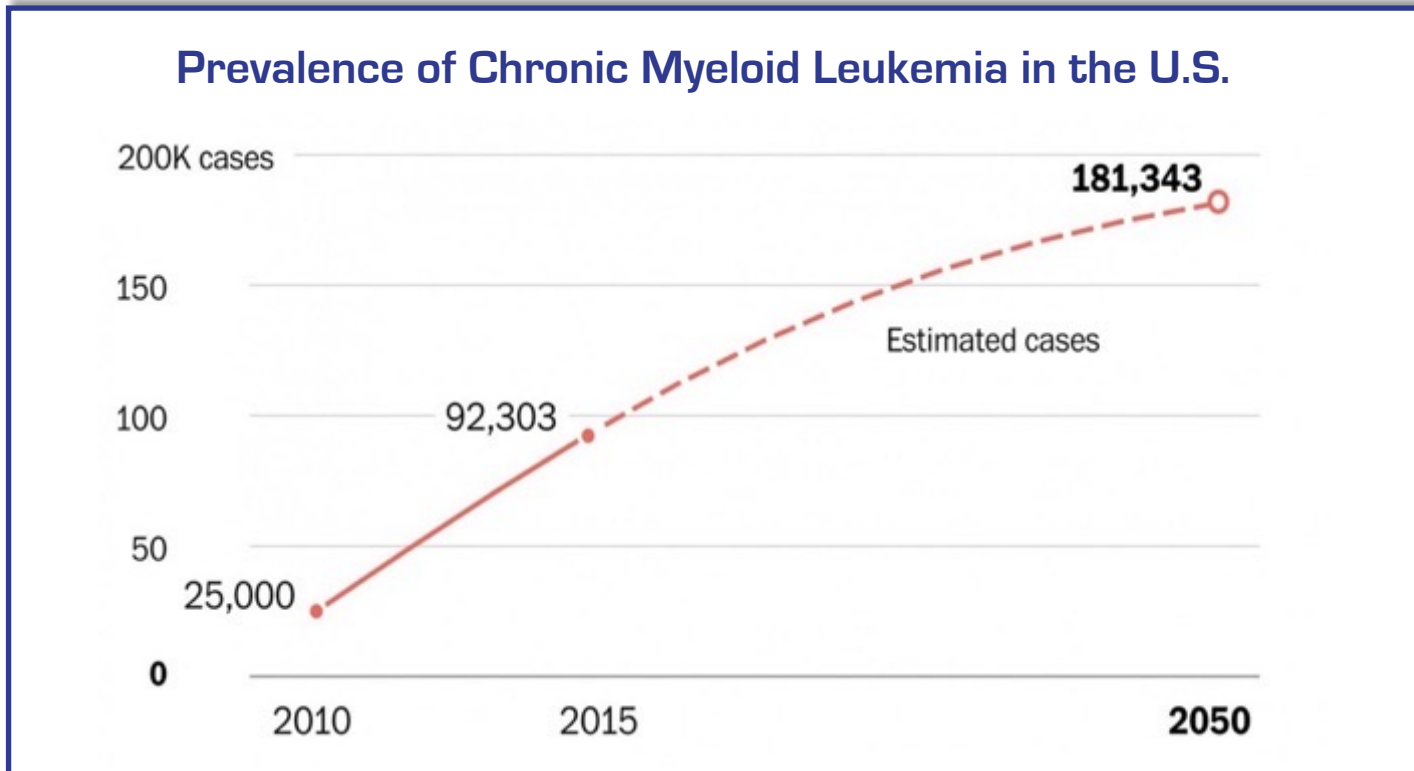
<sup>1</sup>Marmion, Werner, Kordower et al, (2021) Neurobiol Dis 148:105184



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

# CML in the U.S.<sup>1</sup> Accessible Market Opportunity Despite Presence of Generic Gleevec®



- Patients commonly switch due to intolerance or lack of response<sup>3</sup>
- Intolerance to Gleevec® occurs in 30% of patients, leading to lack of treatment compliance and relapse<sup>4</sup>
- Second generation treatments have severe adverse events (i.e. Sprycel® or Tasigna®)
- Best approach: reduce Gleevec® side effects

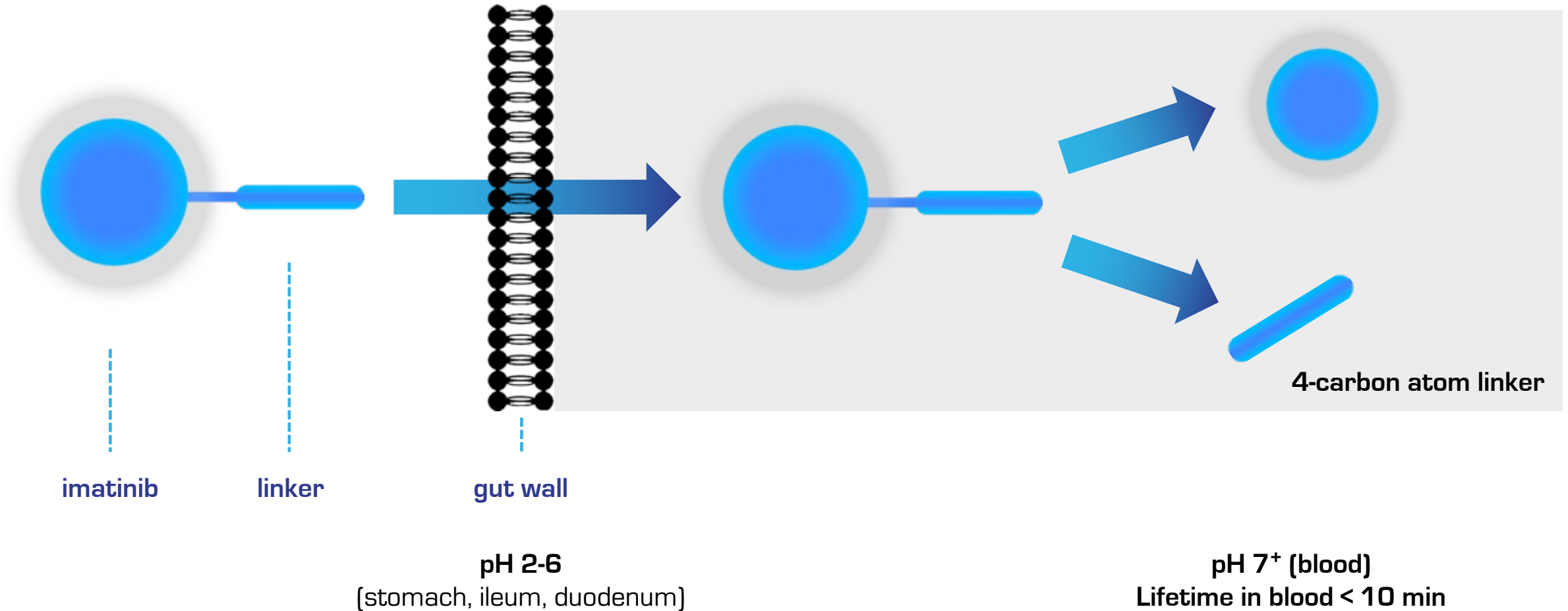
<sup>1</sup>Jabbour E, Kantarjian H. Am. J. Hematol. 89:548–556  
<sup>2</sup>IMS-Iqvia retail sales data 2016-2020  
<sup>3</sup>Am J. Hematology (2019) 94:46-54  
<sup>4</sup>Annals of Hematology (2018) 97:1357–1367

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

▶ > 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) <b>NOAEL</b>	Cmax (mean, ng/mL)	Tmax (mean, h)	AUC <sub>0-T</sub> (mean, ng-h/mL)
<b>Imatinib (Day 91)<sup>1</sup></b>	15	176/206 (M/F)	4/3 (M/F)	1540/1960 (M/F)
<b>IkT-001Pro (Day 28)</b>	<b>75</b>	400/318 (M/F)	5.3/3.7 (M/F)	<b>5220/3890 (M/F)</b>

### RESULTS SUGGEST THAT:

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

<sup>1</sup>FDA summary data for approval 21-335



## Clinical Development of IkT-001Pro: Summary

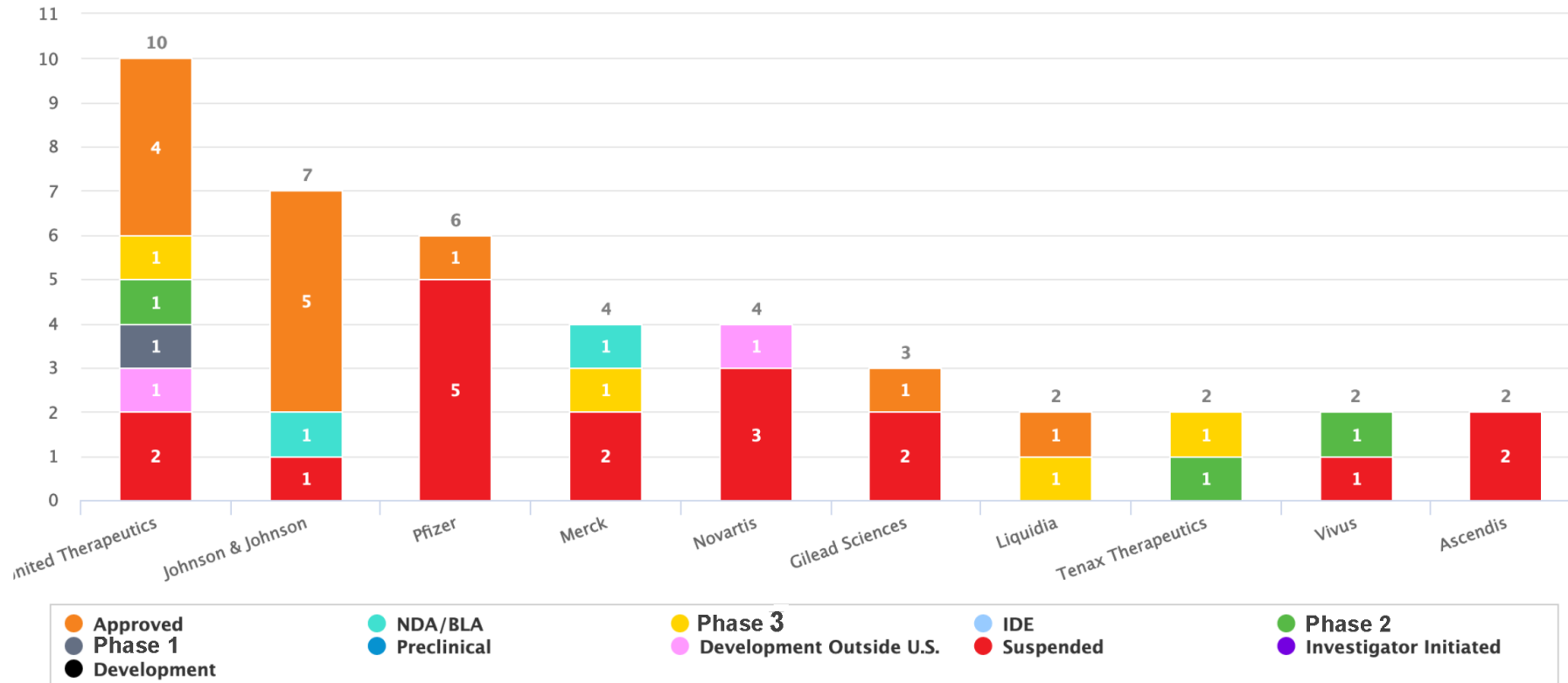
- **600 mg IkT-001Pro bioequivalent to 400 mg imatinib mesylate**
  - Only 25 mild adverse events observed across 58 participants, 12 each for prodrug and standard-of-care
  - IkT-001Pro showed less inter-patient variability and longer rise time to maximum plasma concentration relative to 400 mg imatinib mesylate
  - Mean  $C_{max}$  and  $AUC_{0-inf}$  16% higher than standard-of-care
- **800 mg IkT-001Pro may be bioequivalent to 600 mg imatinib mesylate ('high dose imatinib)**
- **Pre-NDA meeting January, 2024 preliminary outcomes: evaluate IkT-001Pro up to 1200 mg to cover all approved doses of imatinib mesylate; evaluate P-GP and BCRP in pre-clinical assay to confirm if IkT-001Pro and imatinib mesylate absorb in the gut similarly; create distinct dosages of IkT-001Pro to discriminate from imatinib mesylate; advance typical requirements for manufacturing and CMC.**



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# Ikt-001Pro for Treatment of Pulmonary Arterial Hypertension

## Total US Sales of Approved Drugs for PAH: \$4.6B



<sup>1</sup>From Biomedtracker (Citeline Commercial), 2024 (<https://www.biomedtracker.com/indicationreport.cfm?indid=245#PipelineChart>)



## Advantages of Clinical Development of IkT-001Pro in PAH

- **Large market, high value opportunity**
  - **IkT-001Pro ALREADY** proven to be disease-modifying as imatinib was shown to be disease-modifying (*Circulation* 2013;127:1128-1138)
- **Accelerated approval pathways may be open to this product in PAH as a branded drug**
- **Orphan designation already under review.**
- **Pre-IND meeting leading into registrational Phase 3 trial takes place April, 2024. Meeting outcomes will determine whether this indication will be pursued.**



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## Selected Financial Data

## Selected Financial and Stock Data

Capitalization Table	April 1, 2024
Common Shares Outstanding	6,476,844
Options (WAEP: \$10.35)	992,566
Warrants (WAEP: \$7.64)	2,266,136
<b>Fully Diluted Shares Outstanding</b>	<b>9,735,546</b>



Balance Sheet	December 31, 2023
<b>Current Assets:</b>	
Cash, Cash Equivalents, Marketable Securities	\$13,252,052
Prepaid research and development	\$219,817
Prepaid expenses and other current assets	\$739,179
<b>Total Current Assets</b>	<b>\$14,506,647</b>
Total Current Liabilities	\$3,438,601
<b>Total Working Capital</b>	<b>\$10,772,447</b>

## 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.



### Garth Lees-Rolfe Chief Financial Officer

Previously served as our Vice President of Finance from November 2022. Prior to Inhibikase served as the Vice-President, Finance for F-Star, Inc., a publicly traded global clinical-stage biotech company. Prior to his corporate work, spent 16 years in public practice mostly with Ernst & Young, lastly as a Senior Manager. He is a licensed Certified Public Accountant in the state of Massachusetts and a licensed Chartered Accountant of Australia and New Zealand.



### 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.



### 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

