

The background of the slide is a stylized, glowing blue neural network. It features a central neuron with a bright yellow and orange nucleus, surrounded by numerous branching dendrites and axons. Other smaller neurons are visible in the background, some with glowing yellow and orange centers. The overall color palette is dominated by deep blues and purples, with the glowing elements providing a high-contrast, futuristic feel.

HERANTIS

PHARMA

HER-096: Advancing Toward the First Disease-Modifying Treatment for Parkinson's Disease

June 2026

Herantis Pharma Oyj (HEL: HRTIS)

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Forward-looking statements

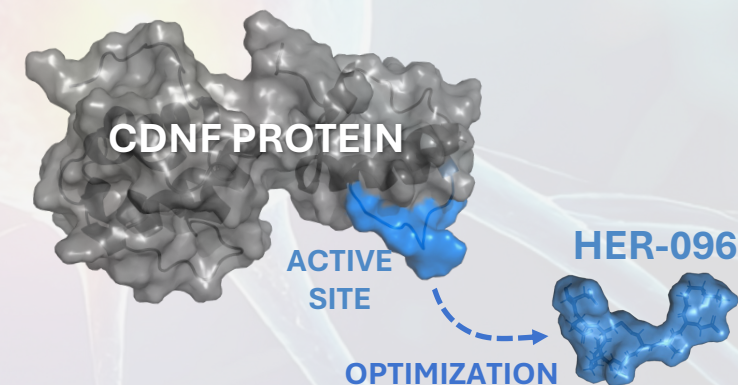
This company presentation includes forward-looking statements which are not historical facts but statements regarding future expectations instead. These forward-looking statements include without limitation, those regarding Herantis' future financial position and results of operations, the company's strategy, objectives, future developments in the markets in which the company participates or is seeking to participate or anticipated regulatory changes in the markets in which the company operates or intends to operate. In some cases, forward-looking statements can be identified by terminology such as "aim," "anticipate," "believe," "continue," "could," "estimate," "expect," "forecast," "guidance," "intend," "may," "plan," "potential," "predict," "projected," "should" or "will" or the negative of such terms or other comparable terminology. By their nature, forward-looking statements involve known and unknown risks, uncertainties and other factors because they relate to events and depend on circumstances that may or may not occur in the future.

Forward-looking statements are not guarantees of future performance and are based on numerous assumptions. The company's actual results of operations, including the company's financial condition and liquidity and the development of the industry in which the company operates, may differ materially from (and be more negative than) those made in, or suggested by, the forward-looking statements contained in this company release. Factors, including risks and uncertainties that could cause these differences include, but are not limited to risks associated with implementation of Herantis' strategy, risks and uncertainties associated with the development and/or approval of Herantis' drug candidates, ongoing and future Clinical trials and expected trial results, the ability to commercialize drug candidates, technology changes and new products in Herantis' potential market and industry, Herantis' freedom to operate in respect of the products it develops (which freedom may be limited, e.g., by competitors' patents), the ability to develop new products and enhance existing products, the impact of competition, changes in general economy and industry conditions, and legislative, regulatory and political factors. In addition, even if Herantis' historical results of operations, including the company's financial condition and liquidity and the development of the industry in which the company operates, are consistent with the forward-looking statements contained in this company release, those results or developments may not be indicative of results or developments in subsequent periods.

Herantis Pharma

Nasdaq First North Growth Market Finland - HRTIS

- > Clinical-stage public company developing disease-modifying therapies for Parkinson's disease (PD)
- > Lead asset HER-096
 - Phase 2 efficacy trial initiation-ready
 - Novel mechanism (CDNF mimicking) designed to protect and restore dopaminergic neuronal function
 - Convenient subcutaneous administration
- > Encouraging Phase 1 data
 - Evaluated in PD patients and healthy volunteers
 - Demonstrated favourable safety and tolerability profile
 - Demonstrated efficient brain penetration
 - Biomarker data suggests biological response in PD patients
- > Earlier biological validation of CDFN biology in clinical and translational studies
 - CDFN: a protein that protects neurons that produces dopamine
 - HER-096 peptide mimicks the active site of CDFN protein



Parkinson's Disease: High Unmet Need Driving Market Growth

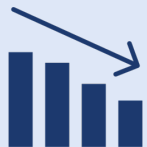
Unmet clinical need



Current therapies only treat the symptoms, not the disease itself



Many patients have no symptomatic benefit or may have significant side effects



The effectiveness of current treatments decline over time as the disease progresses

Market is growing rapidly



10 → 25 million patients

Estimated increase until 2050



\$ >250 billion

Estimated economic impact of Parkinson's globally today



\$ 13 billion

Forecasted therapeutic market in PD by 2034 (\$6.6b in 2024)

Strong pharma interest in PD: Roche, EliLilly, Abbvie, MSD...

HER-096: De-Risked and Ready for Phase 2

Key achievements



Completed two Phase 1 studies including PD patients

Biomarker and brain penetration data support biological activity of HER-096

De-risked: Prior CDNF program validated the mechanism in clinical and translational studies

Differentiated asset



Designed to modify disease progression

First-in-class CDNF-based mechanism

Targets core drivers of Parkinson's pathology

Differentiated and broad mechanism among clinical disease-modifying approaches

Ready for Phase 2

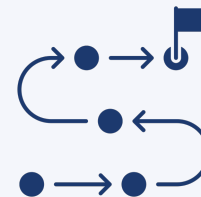


Proof-of-concept efficacy trial

~100 early-stage Parkinson's patients

Multi-center European study

Phase 2 milestones and news flow



Clinical Trial application (CTA) Q4/2026

CTA Approval 1H/2027

First patient enrolled 1H/2027

Data readout 1H/2029

With Phase 2 data HER-096 is a unique partnering opportunity

Phase 2a: To Demonstrate Symptomatic Improvement in Early-Stage Parkinson's Patients

- Randomized, placebo-controlled, double-blind multicenter trial
 - 6-month placebo-controlled period followed by 6-month open-label HER-096 treatment for all participants
 - 100 patients with early-stage idiopathic Parkinson's disease (no previous symptomatic medication)
 - Two subcutaneous injections per week: single dose level of HER-096 or placebo
- Innovative evaluation of clinical efficacy: digital motor score as key endpoint
 - Aim to detect earlier and more sensitively treatment related changes
 - Partnered with Indivi whose technology platform is used, e.g., in Biogen's LUMA Phase 2b PD trial
- Leading European clinical sites committed
 - 5+ sites committed to date; total of 10-15 European sites
 - Topline efficacy data expected 1H/2029



feedback supports planned Phase 2a development strategy

- FDA considered the Phase 2a trial design appropriate for the current stage of development
- No concerns raised regarding CMC or preclinical packages
- Endpoint strategy for future trials discussed

HER-096: Strong Position Within PD Disease-Modifying Landscape

- Parkinson's disease-modifying treatment pipeline remains limited despite substantial unmet medical need
- Most competing programs focus on relatively narrow mechanisms, including α -synuclein immunotherapies, LRRK2 inhibition, GBA/lysosomal pathways, GLP-1/metabolic approaches, and cell replacement therapies
- HER-096 is designed to broadly address neuroprotective and regenerative pathways implicated across Parkinson's disease pathology
- Pharma remains to be highly interested in PD disease modification

Phase 3

α -synuclein

- Despite significant investment, broader clinical validation of α -synuclein-targeted disease modification remains ongoing
- Prasinezumab (Roche)

Phase 2

Genetic / lysosomal targets

- Focus on relatively narrow biological subpopulations within Parkinson's disease
- BIIB122 (Biogen/Denali)
- LTI-291 (BIAL)

Cell Therapies

- Constraints related to surgical complexity, scalability, and broad clinical applicability
- Bemdaneprocel (BlueRock/Bayer)

Broad neuroprotection

- **HER-096**
- Bezisterim (Annovis) - Multi-pathway small molecule

Strong External Validation and Financial Support for HER-096



€3.6M research financing

Phase 1b clinical trial and biomarker development (completed)



Co-funded by the European Union

€ 2.5 million grant for biomarker development (completed)

€ 8 million grant for the Phase 2 trial conduct

€ 15 million equity investment commitment from EIC Fund

€4.2 million utilized (can invest maximum of 1/3 of total equity)

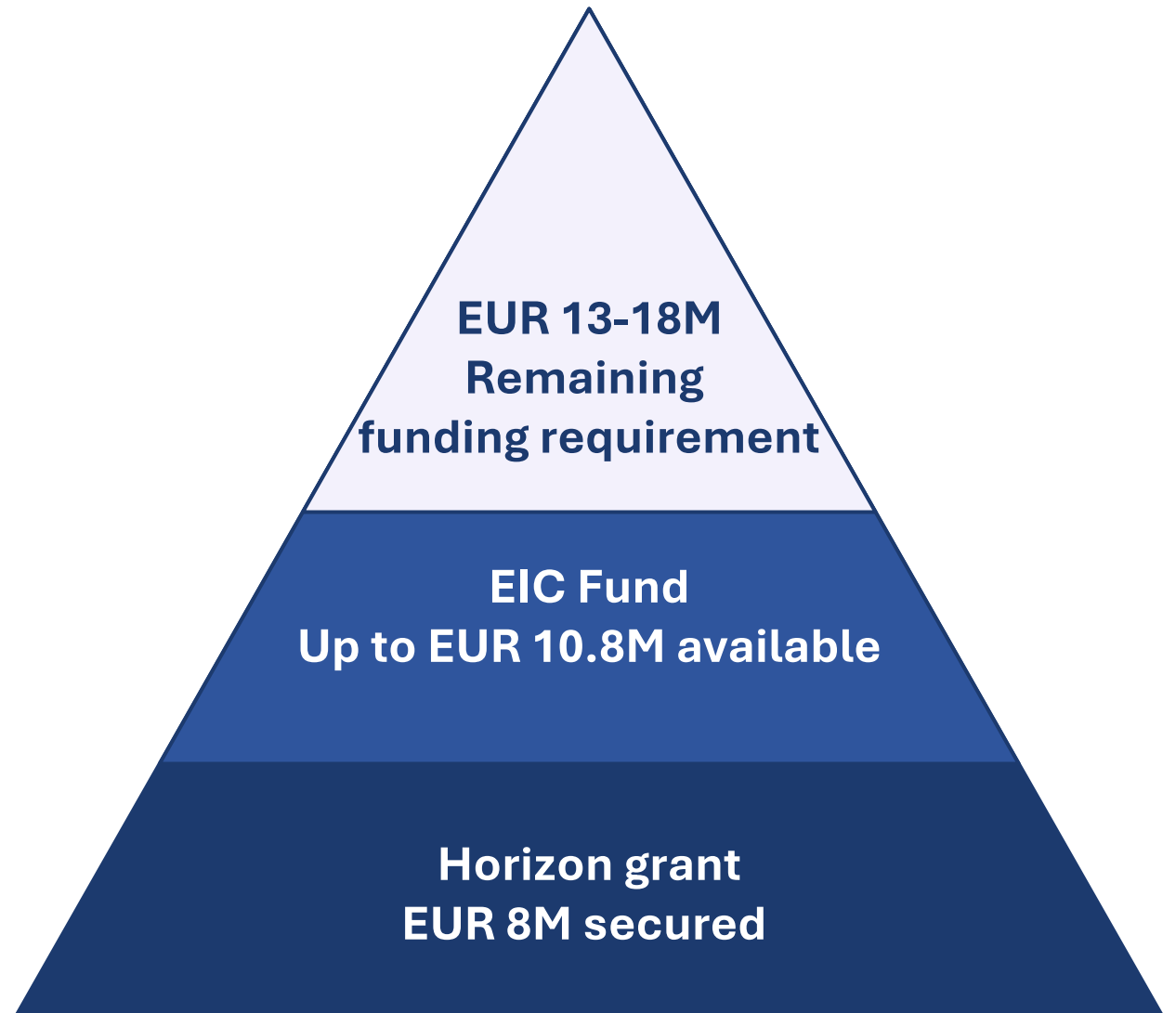
Over 50% of Funding for Phase 2 Execution Secured

The total need of funding is EUR 30-35 M currently in discussions with:

- Pharma
- Investors
- Disease-focused organizations such as Parkinson's UK and MJ Fox

EIC Fund: term sheet signed 2023, they can invest maximum of 1/3 of the required equity – currently 10.8 MEUR of their commitment is available

EU Horizon grant: covers part of the Phase 2 costs and operations; leading clinical sites within the EU consortium

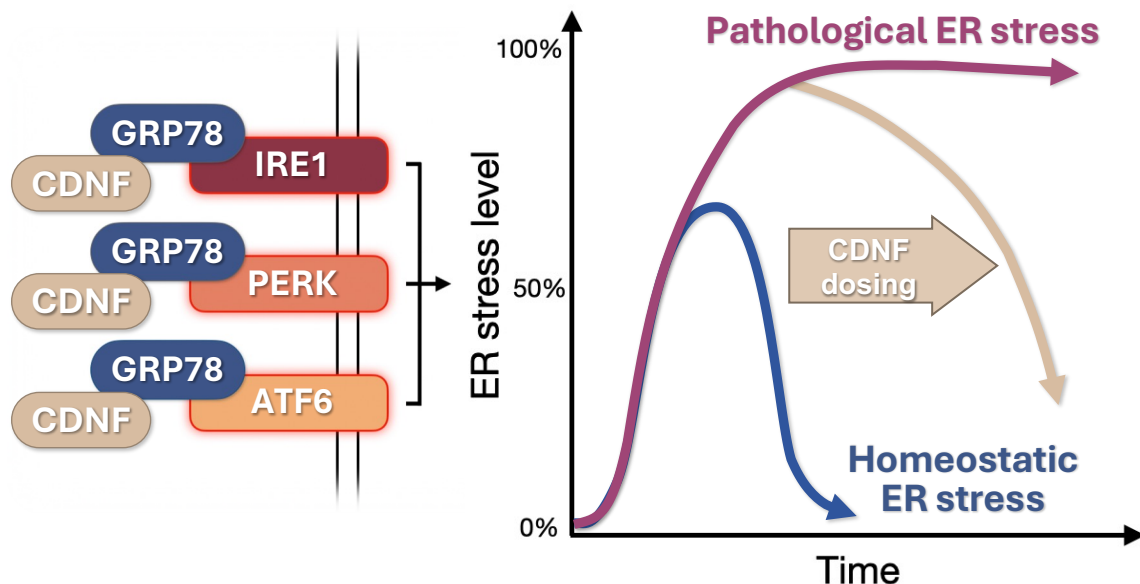


Unique Mechanism of Action and Robust Preclinical Data

HER-096 Mimics CDFN's Neuroprotective Activity via Interaction with GRP78

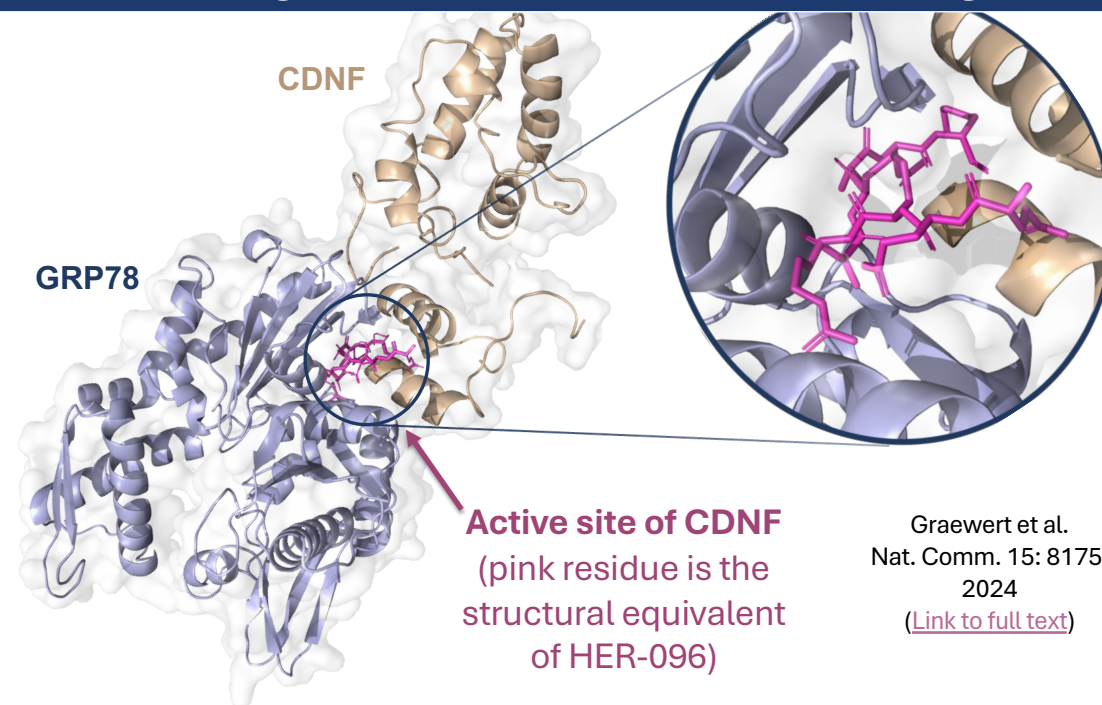
GRP78 Serves as the Master Regulator of the Unfolded Protein Response (UPR) Pathway

Unfolded Protein Response (UPR) Pathway Signaling and CDFN



The Unfolded Protein Response (UPR) is a central regulatory mechanism within the proteostasis network that senses endoplasmic reticulum (ER) protein misfolding and orchestrates adaptive responses to restore protein homeostasis. In normally functioning cells, the UPR acts as a homeostatic mechanism: it is activated in response to the accumulation of misfolded proteins in the ER and is downregulated once the imbalance is resolved. In contrast, pathological ER stress—such as that observed in Parkinson's disease—is harmful and can ultimately lead to cell death. CDFN's physiological role is to modulate the UPR to prevent pathological (maladaptive) ER stress and restore the UPR to its normal homeostatic function.

HER-096 is designed based on the CDFN / GRP78 binding interface



Graewert et al.
Nat. Comm. 15: 8175,
2024
([Link to full text](#))

HER-096 mimics CDFN's effects on the UPR system but has significant additional benefits:

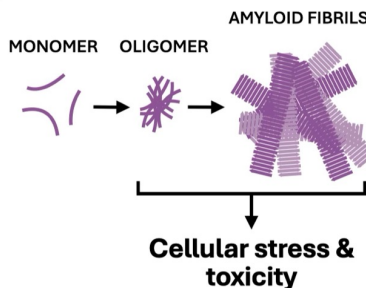
- Blood-brain barrier penetration allows subcutaneous administration
- Fully synthetic molecule; enhanced metabolic stability

Parkinson's disease: A Vicious Cycle Drives the Disease Pathology

Accumulation of Toxic α -Synuclein Aggregates, Chronic ER Stress and Neuroinflammation

Parkinson's disease is driven by proteostasis failure, where impaired protein quality control leads to toxic α -synuclein aggregation that progressively overwhelms neuronal and glial cell homeostasis.

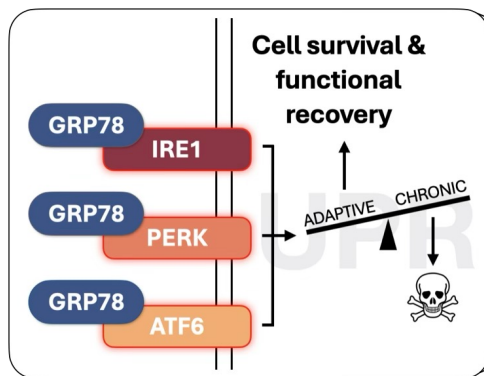
DISRUPTED PROTEOSTASIS



α -synuclein aggregation promotes chronic ER stress

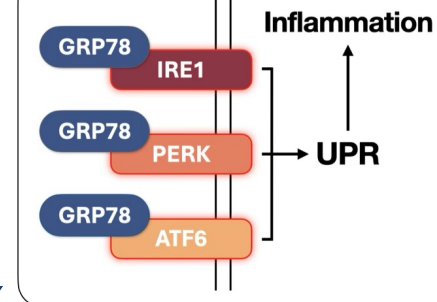
α -synuclein aggregation promotes neuroinflammation

In Parkinson's disease, unresolved ER stress locks the UPR into a chronic, maladaptive state that suppresses neuronal maintenance, drives inflammation, and accelerates dysfunction and degeneration of dopamine neurons.



UNFOLDED PROTEIN RESPONSE

The target of HER-096



NEUROINFLAMMATION & IMPAIRED REPAIR PROCESSES

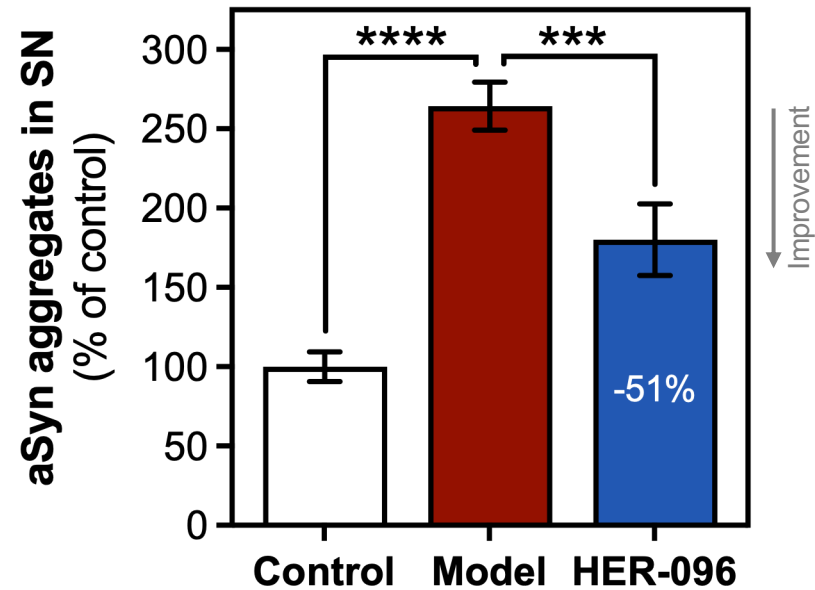
Chronic ER stress promotes neuroinflammation

Glial cells: Chronic ER stress and maladaptive UPR signaling drive neuroinflammation and loss of neuronal support, contributing to progressive dopaminergic neurodegeneration.

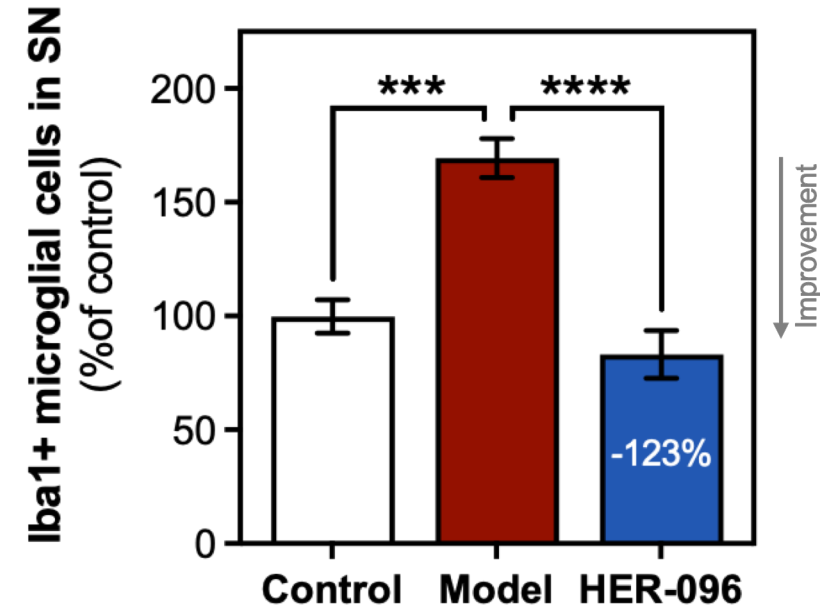
Disease modification – Effect on α -synuclein and Neuroinflammation

In vivo Preclinical Studies (Parkinson's mouse model)

α -SYNUCLEIN AGGREGATES



NEUROINFLAMMATION



Mice were administered IP a human-equivalent dose of 200 mg HER-096 3 times per week for 4 weeks. Control = normal aged mouse without drug (vehicle only). PD model = PD model aged mouse without drug (vehicle only). HER-096 = PD model aged mouse with HER-096 drug. For substantia nigra (SN; graphs 1, 2, 4): Whole brains were prepared for immunohistochemistry of TH, Iba1, and α -Syn and the SN analyzed. For striata (graph 3): Striata were dissected from whole brain and lysed. Dopamine levels were determined by HPLC. Kuleskaya et al 2024, Cell Chem. Biol., doi: 10.1016/j.chembiol.2023.11.005

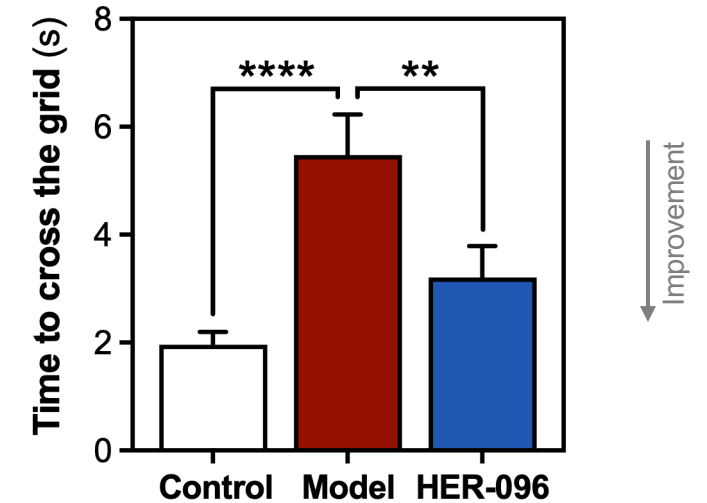
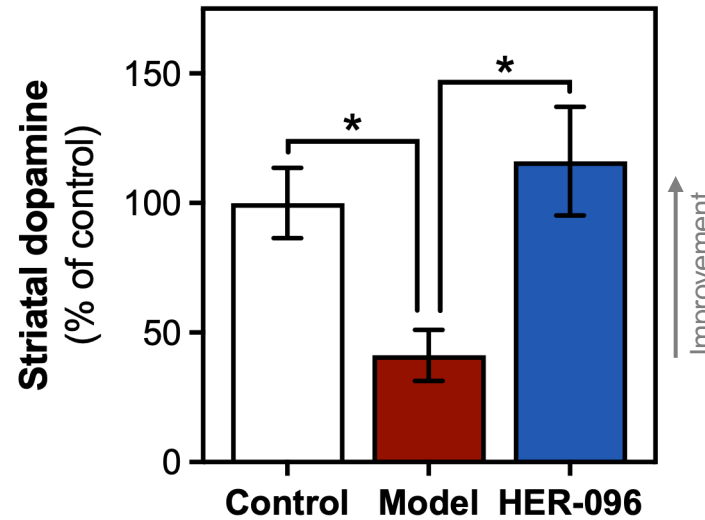
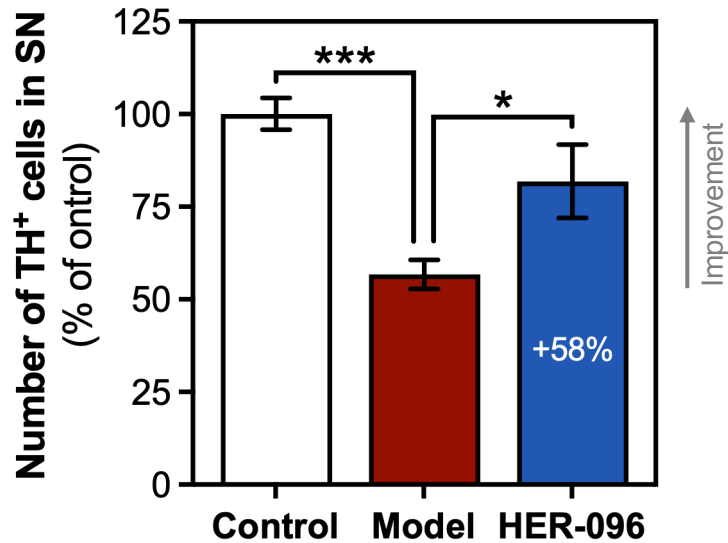
Disease Modification – Effect on Dopamine System

In vivo Preclinical Studies (Parkinson's mouse model)

PROTECTION OF DOPAMINE NEURONS

DOPAMINE LEVEL IN STRIATUM

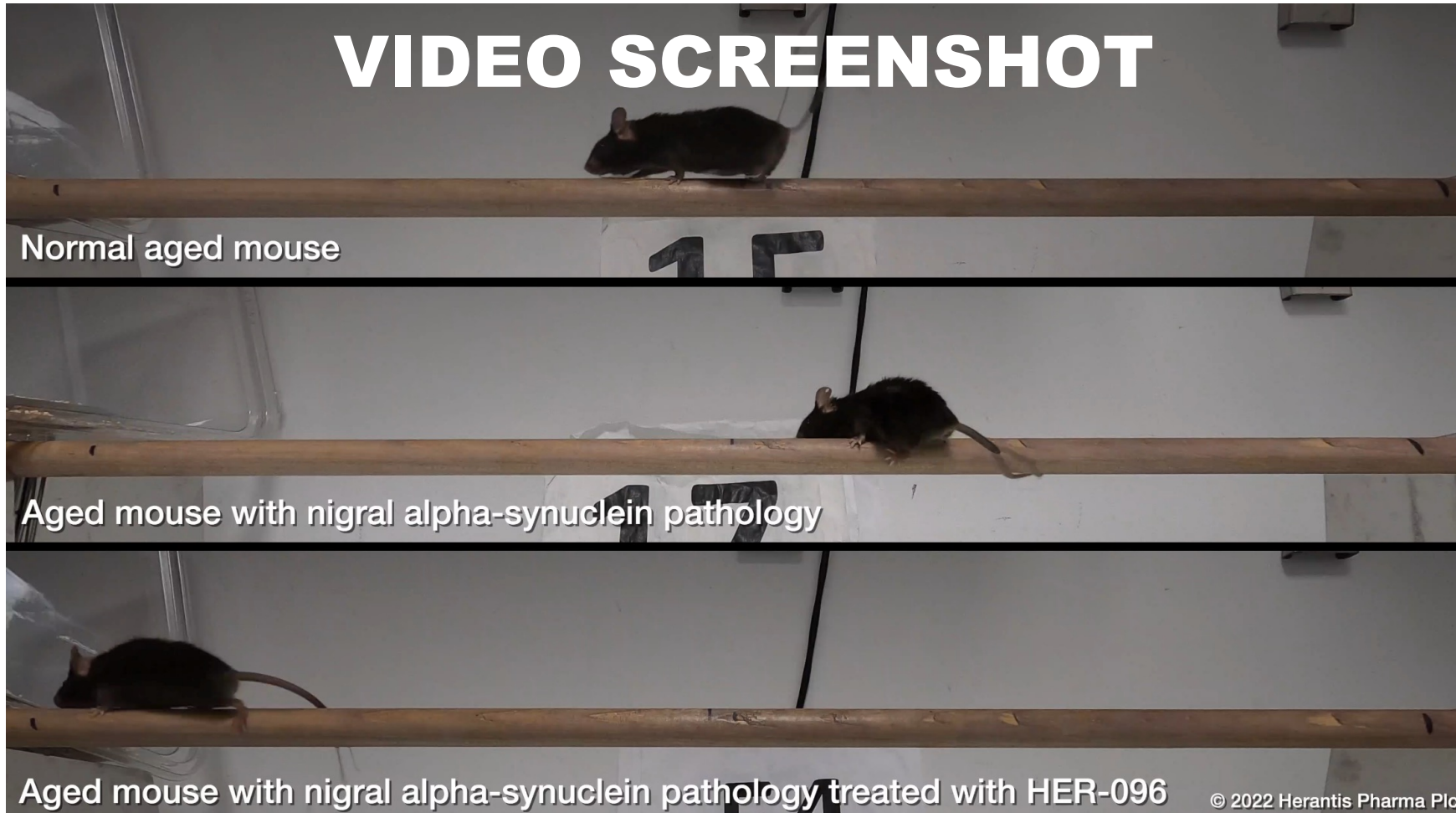
IMPROVEMENT OF MOTOR SYMPTOMS



Mice were administered IP a human-equivalent dose of 200 mg HER-096 3 times per week for 4 weeks. Control = normal aged mouse without drug (vehicle only). PD model = PD model aged mouse without drug (vehicle only). HER-096 = PD model aged mouse with HER-096 drug. For substantia nigra (SN; graphs 1, 2, 4): Whole brains were prepared for immunohistochemistry of TH, Iba1, and α -Syn and the SN analyzed. For striata (graph 3): Striata were dissected from whole brain and lysed. Dopamine levels were determined by HPLC. Kuleskaya et al 2024, Cell Chem. Biol., doi: 10.1016/j.chembiol.2023.11.005

HER-096 demonstrate robust neuroprotection

PD mouse administered with HER-096 has superior beam walking speed to both untreated PD mouse and normal aged mouse

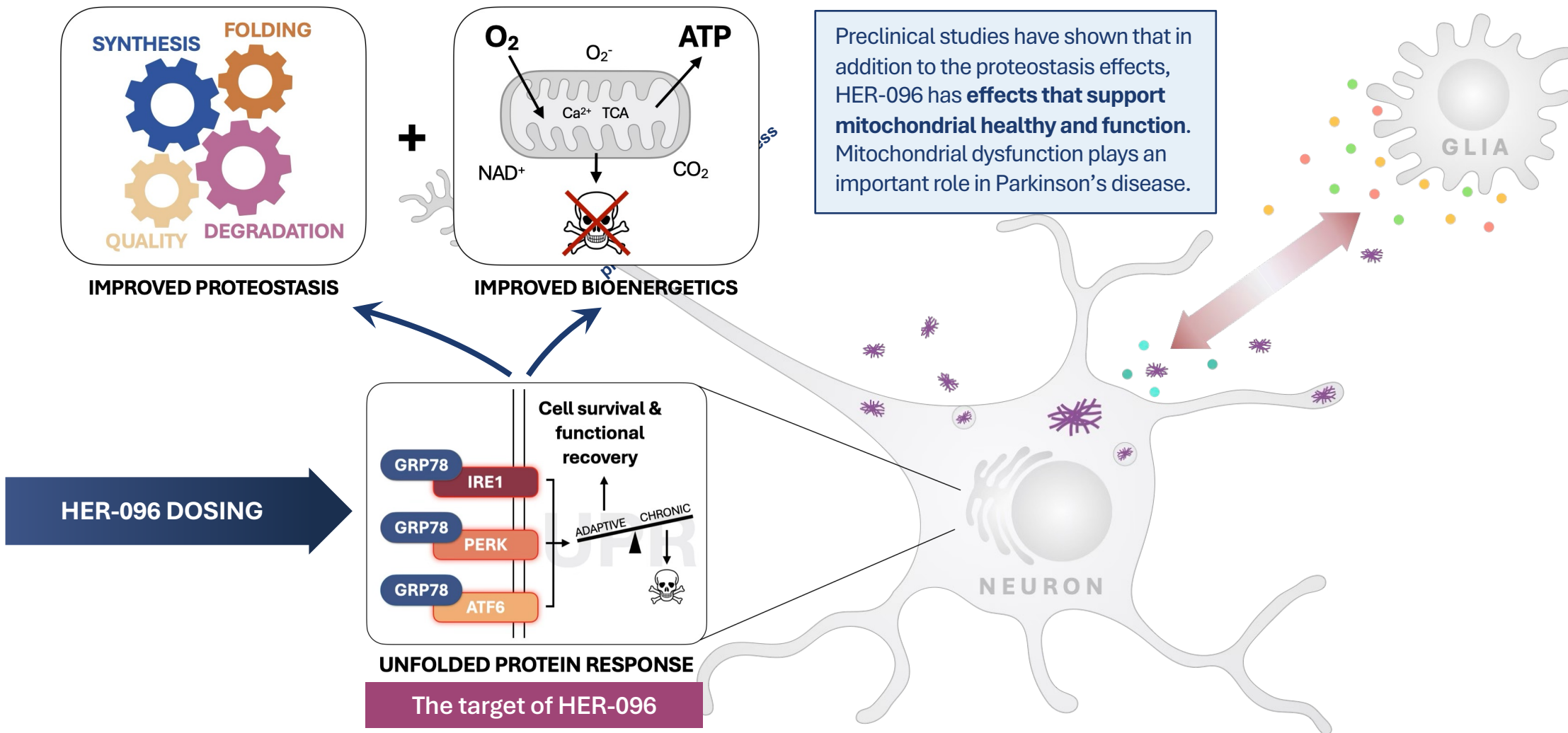


**CLICK THE
BELOW LINK TO
SEE THE VIDEO:**

<https://youtu.be/L3WmkhP2Opw>

Preclinical Studies: HER-096 Modulation of UPR Showed Broad Effects on Neuronal Functionality

Restorative Effects on Neuronal Proteostasis and Mitochondrial Function



Phase 1 Program is Completed With Very Encouraging Data

HER-096 Phase 1 Program is Completed

PHASE 1A STUDY

Single Ascending Dose HER-096 (10 – 300 mg)
Safety and PK, including CSF $T_{1/2}$ in elderly HV

N = 60

N = 48 young healthy individuals (2/6 placebo/active per dose level)

Dose levels: 10 – 300 mg (6 dose levels)

N = 12 elderly HVs

Dose: 200 mg

CSF sampling: 2 – 12 h (one sample per subject)

Main findings:

- Good safety and tolerability profile of single dose in healthy subjects
- Efficient brain penetration in elderly healthy individual
- Favourable pharmacokinetic profile in young and elderly healthy subjects

ClinicalTrials.gov: NCT05915247

PHASE 1B STUDY

Single Dose HER-096
CSF $T_{1/2}$ in elderly HV

N = 8

N = 8 elderly

Dose: 300 mg

CSF sampling: 8 – 30 h
(one sample per subject)

Multiple Doses (200 or 300 mg)
Safety, PK & biomarkers in PD patients

N = 24

N = 16 active + 8 placebo

Doses: 200 or 300 mg 2 x week, for 4 weeks
(+ 4-week safety follow-up after the last dose)

CSF sampling: baseline & after the last dose

Main findings:

- Good safety and tolerability profile of repeated doses of HER-096 in PD patients (main findings are related to the injection site as expected)
- Pharmacokinetics in CSF: twice weekly dosing of 200 or 300 mg HER-096 are feasible for Phase 2
- Biomarker analysis: Biological response to HER-096 dosing aligned with mechanism

ClinicalTrials.gov: NCT06659562; EUCT: 2024-512532-30-00

Phase 1 summary: Safety and Brain Penetration in Humans

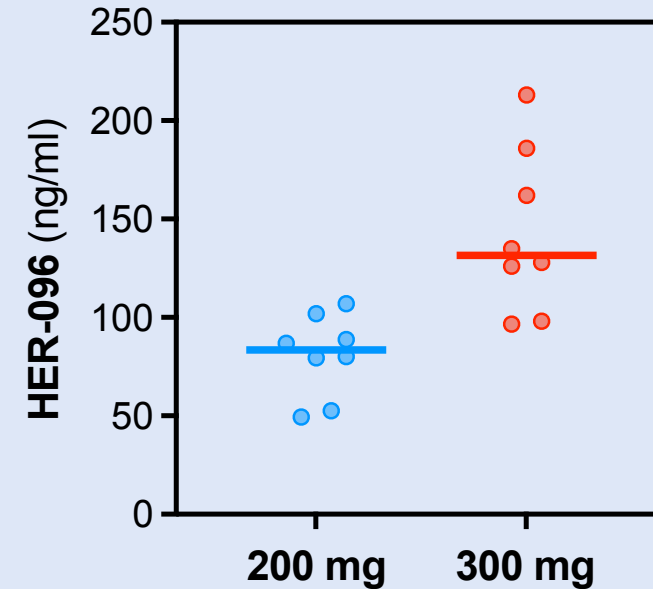
Clean safety profile

- Favorable safety profile observed across all tested dose levels, including highest planned clinical exposure
- Low incidence of systemic adverse events
- Most reported adverse events were related to the injection site, and were mild and transient

HER-096 dosings	Phase 1a	Phase 1b
Severe TEAEs*	0	0
Serious Adverse Events	0	0
Dose Limiting Toxicities	0	0
Maximum Tolerated Dose	Not reached	Not reached

*TEAE = Treatment Emergent Adverse Event

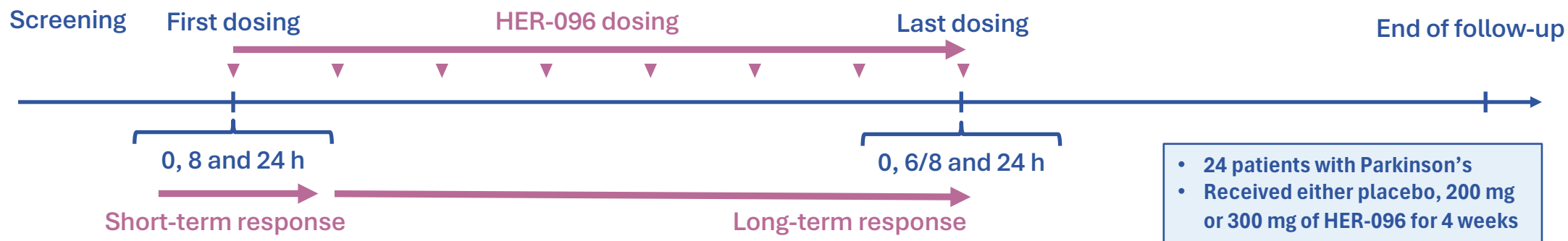
HER-096 in the CSF of Parkinson's patients



- CSF sampling at 8 h after last dose
- CSF levels well-correlated with plasma exposure
- CSF levels reached by both 200 and 300 mg doses match to the CSF levels reached by pharmacologically active dose levels in preclinical models

Biomarker Profiling with over 2.5 Million Data Points Generated

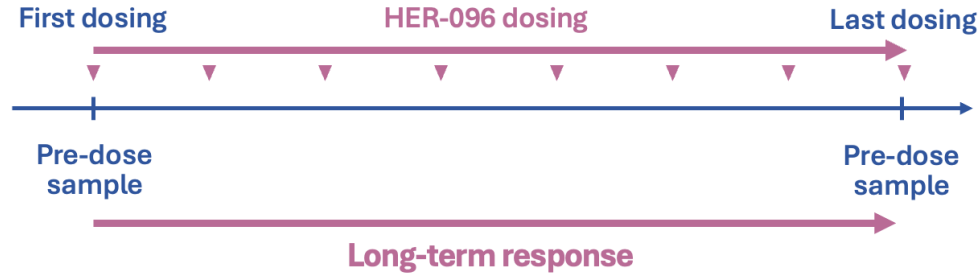
Exploratory Fluid Biomarker Analyses in the Phase 1b Clinical Study



	Analytes	Matrices	Timepoints	Subjects	Total	
TARGETED	Cytokines	5	2	6 2	24	1 440
	NULISA	100	2	5 2	24	9 600
	MitoDNA lesions	1	1	2	24	96
	Mitochondrial metabolites	6	1	2	24	288
UNTARGETED	SomaLogic proteomics	11 000	2	6 2	24	2 112 000
	Mass spec proteomics	2 114	1	2	24	101 472
	NeuroSPARC (neuronal EVs)	1	1	3	24	72
	EV mass spec proteomics	2700	1	3	24	194 400
	Metabolomics	1 400	2	2 2	24	134 400
TOTAL					2 553 768	

Example of Biomarker data: Plasma Proteomics – Systemic Biological Response to HER-096

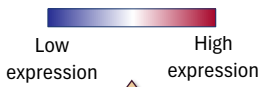
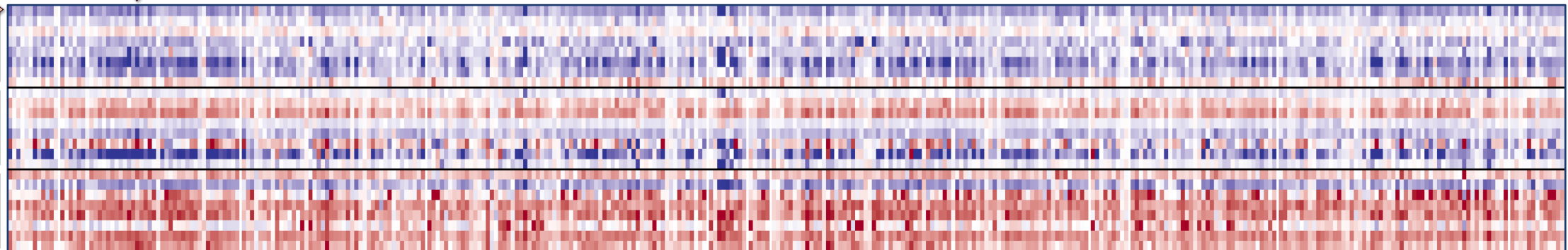
Aptamer-based Proteomics Used for Longitudinal Monitoring of 11 000 Plasma Proteins



Column: one protein

Row: one subject

Placebo
200 mg HER-096
300 mg HER-096



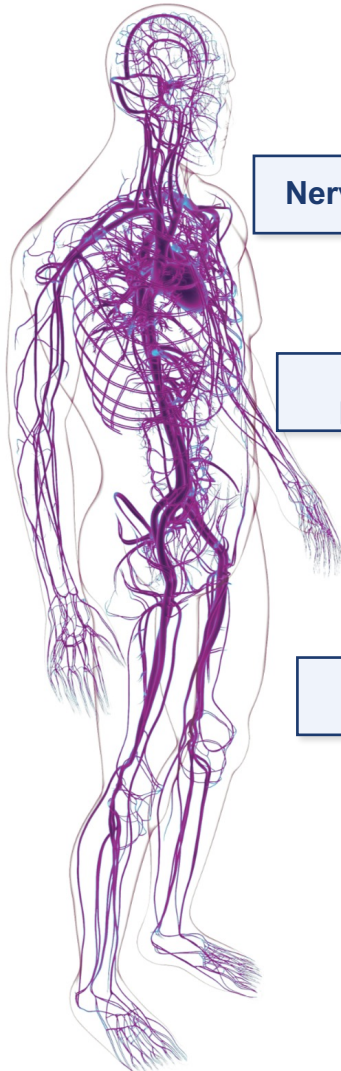
Heatmap key

Changes from mean expression in individual subjects in driver protein overrepresentation analysis – Upregulated driver p

Data interpretation: HER-096 dosing induces broad proteomic changes in plasma at Week 4 (graph shows the approximately 350 proteins with the highest changes: see details next slide)

Clear Biomarker Responses to HER-096 Dosing in Humans

Multiple Data Layers Show Concordant Shifts in Biology Aligned with Mechanism of Action



Nervous system markers

Neuronal-enriched plasma EV markers

Systemic markers

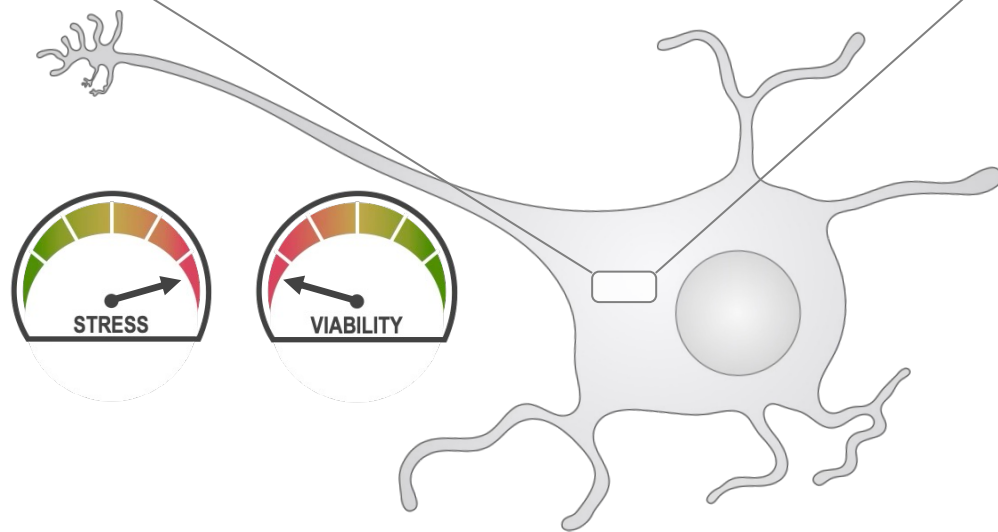
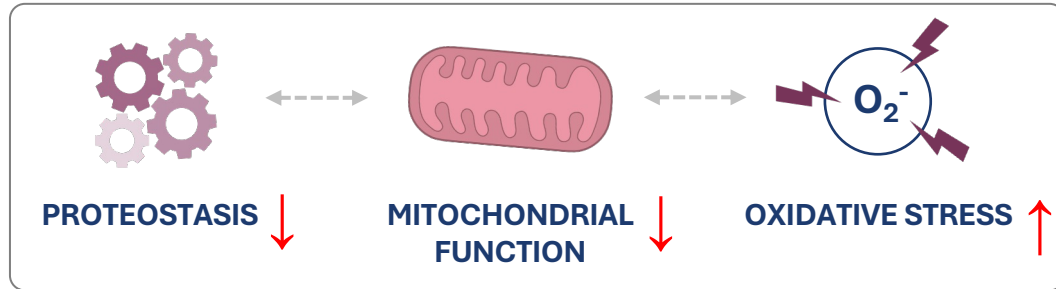
Sample type	Cells / Source	System	Pathways affected	Interpretation
CSF	Neurons	Proteostasis and oxidative stress	Proteostasis and redox proteins ↑	Proteostasis modulation and improved oxidative stress defense
CSF	Immune and glial cells	Inflammation	Microglial polarization ↑↓	Neuroinflammation polarized toward resolution and repair
NeuroSPARC EV	CNS/ Peripheral	Mitochondria	Oxidative phosphorylation-related proteins ↓	Improved mitochondrial health results in reduced secretion of mitochondria-derived vesicles
NeuroSPARC EV	CNS/ Peripheral	Innate immunity	Type I interferon response ↓	Downregulation of innate immune signaling
Plasma	Peripheral tissue	Proteostasis	Multiple proteostasis systems ↑	Improved cellular proteostasis
Plasma	Peripheral tissue	Vesicle trafficking and autophagy	Multivesicular body, autophagy regulators, ESCRT complex ↑	Improved function of the endolysosomal pathway, enhanced autophagy/mitophagy
Whole blood	PBMC	Mitochondria	mtDNA lesions ↓	Improved mitochondrial health results in better mtDNA integrity
Whole blood	Blood cells	Mitochondria	Glutathione redox balance improved	Improved mitochondrial efficiency reduces oxidative stress

- Proteostasis
- Inflammation
- Mitochondrial function & oxidative stress defense

HER-096 dosing: Clinical Biomarker Changes Aligned with Restoration of UPR Function

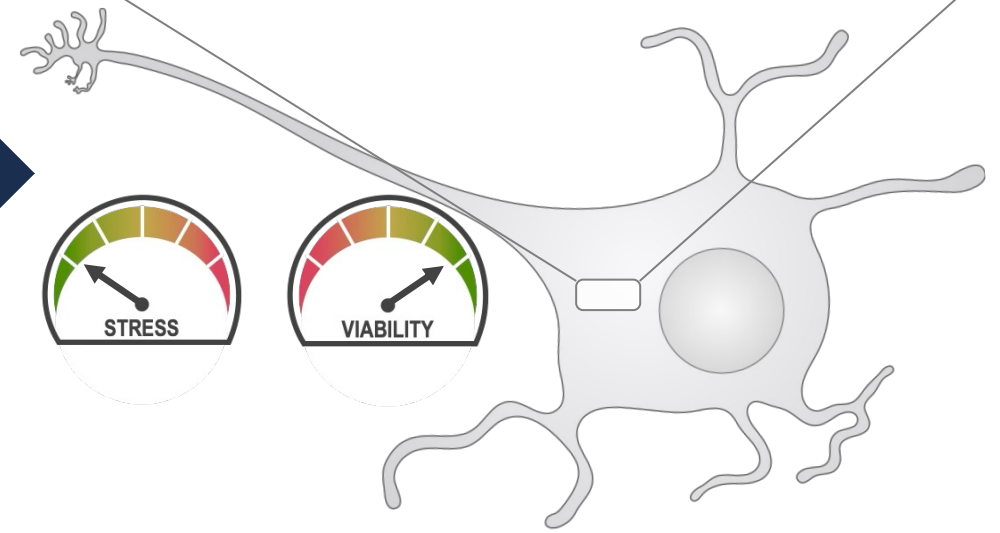
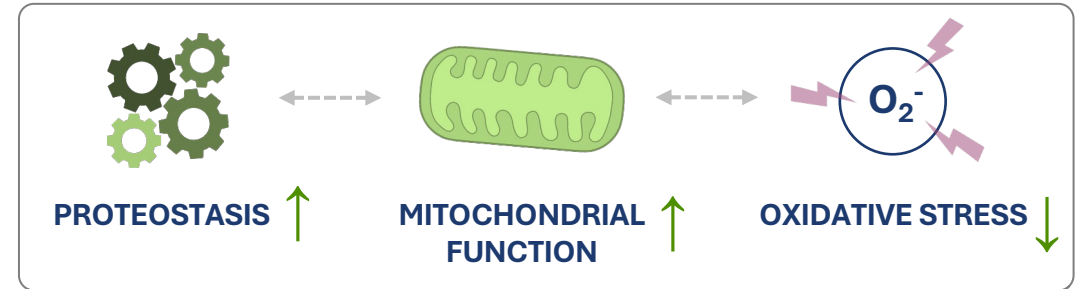
Consistent biomarker changes support normalization of UPR signaling in line with established biology

Parkinson's disease:
chronically activated Unfolded Protein Response (UPR)



HER-096 DOSING →

HER-096 treatment:
normalized UPR operation



Phase 1b Biomarker Data: De-Risking the Path to Clinical Efficacy

- Proof of biology: clear evidence of biological response to HER-096 in Parkinson's patients
- A key development milestone demonstrating preclinical-to-clinical translatability
- A key catalyst for strategic partnering and investment discussions

	Preclinical data	Phase 1b (Parkinson's patients)
Safety and tolerability	✓ Demonstrated	✓ Demonstrated
Biological response (biomarkers)	✓ Demonstrated	✓ Demonstrated
Effects on target pathways	✓ Demonstrated	✓ Demonstrated
Effect on symptoms	✓ Demonstrated	To be evaluated in Phase 2

HER-096: Advancing Towards Phase 2 Proof-of-Concept

Phase 2a Study Design

A Signal-Finding Phase 2a Study Design Driven by Digital Biomarkers

- Sample size: 100 patients
 - De novo Parkinson's disease: early stage, no symptomatic medication
 - Two subcutaneous injections per week of a single dose level of HER-096 or placebo
 - A randomized, placebo-controlled study of 6 months, followed by a 6-month open-label extension
- A proof-of-concept study aiming to demonstrate gradually developing symptomatic improvement
 - Using a sensitive digital motor score (DMS) as the primary outcome measure
 - Clinical symptom assessment (MDS-UPDRS Part II & III) as the secondary outcome measure
 - Multimodal brain imaging
 - Selected fluid biomarkers based on Phase 1b data

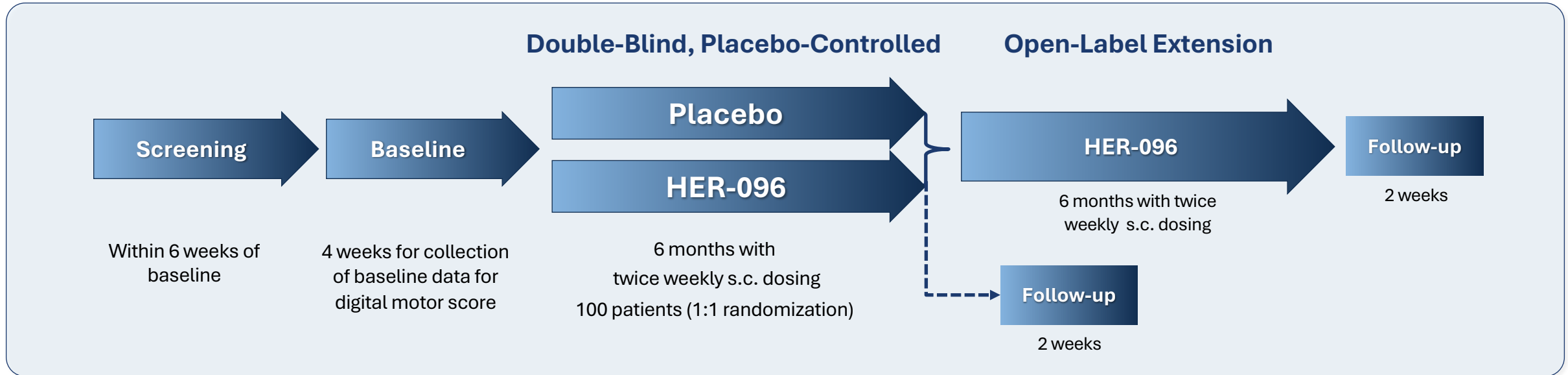


feedback supports planned Phase 2a development strategy

- FDA considered the Phase 2a trial design appropriate for the current stage of development
- No concerns raised regarding CMC or preclinical packages
- Endpoint strategy for future trials discussed

Phase 2a Study Design

A Double-Blind, Placebo-Controlled, Randomized, Efficacy and Safety Study Followed by an Open-Label Extension



Study Endpoints

Primary:

- Change in Digital Motor Score (DMS) at 6 months

Secondary & Exploratory:

- Safety and tolerability
- Changes of MDS-UPDRS and other clinical assessments
- Other digital-derived endpoints
- Changes on PD medication
- Selected biomarkers, including imaging
- Biological characterization of population (genetic testing and α -synuclein)

Linking Biological Activity to Clinical Outcomes

PHASE 1B BIOMARKER DATA

Evidence of Target & Biological Engagement

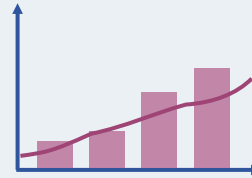


- Concordant biomarker changes consistent with HER-096 mechanism of action
- Signals observed across multiple biologically related markers
- Supports central pharmacological activity in humans

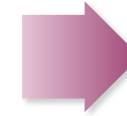


TRANSLATIONAL PRECLINICAL EVIDENCE

Gradually Developing Functional Effects in PD Models



- Functional effects emerged progressively **over months**:
 - ✓ Dopamine neuron protection
 - ✓ Normalization of striatal dopamine
 - ✓ Reversal of motor deficits
- Pattern consistent with restoration/preservation of neuronal circuitry



PHASE 2A ENDPOINT STRATEGY

Digital Motor Score as Primary Endpoint



- Continuous and objective assessment of motor function
- Designed to detect subtle longitudinal change
- Potentially well suited for therapies with progressive onset of effect
- Reduces dependence on episodic clinic-based assessments and improves signal-to-noise ratio

The Phase 2a design links early biological engagement with a translationally informed strategy to detect **gradually emerging functional benefit**

Participating Countries and Clinical Sites

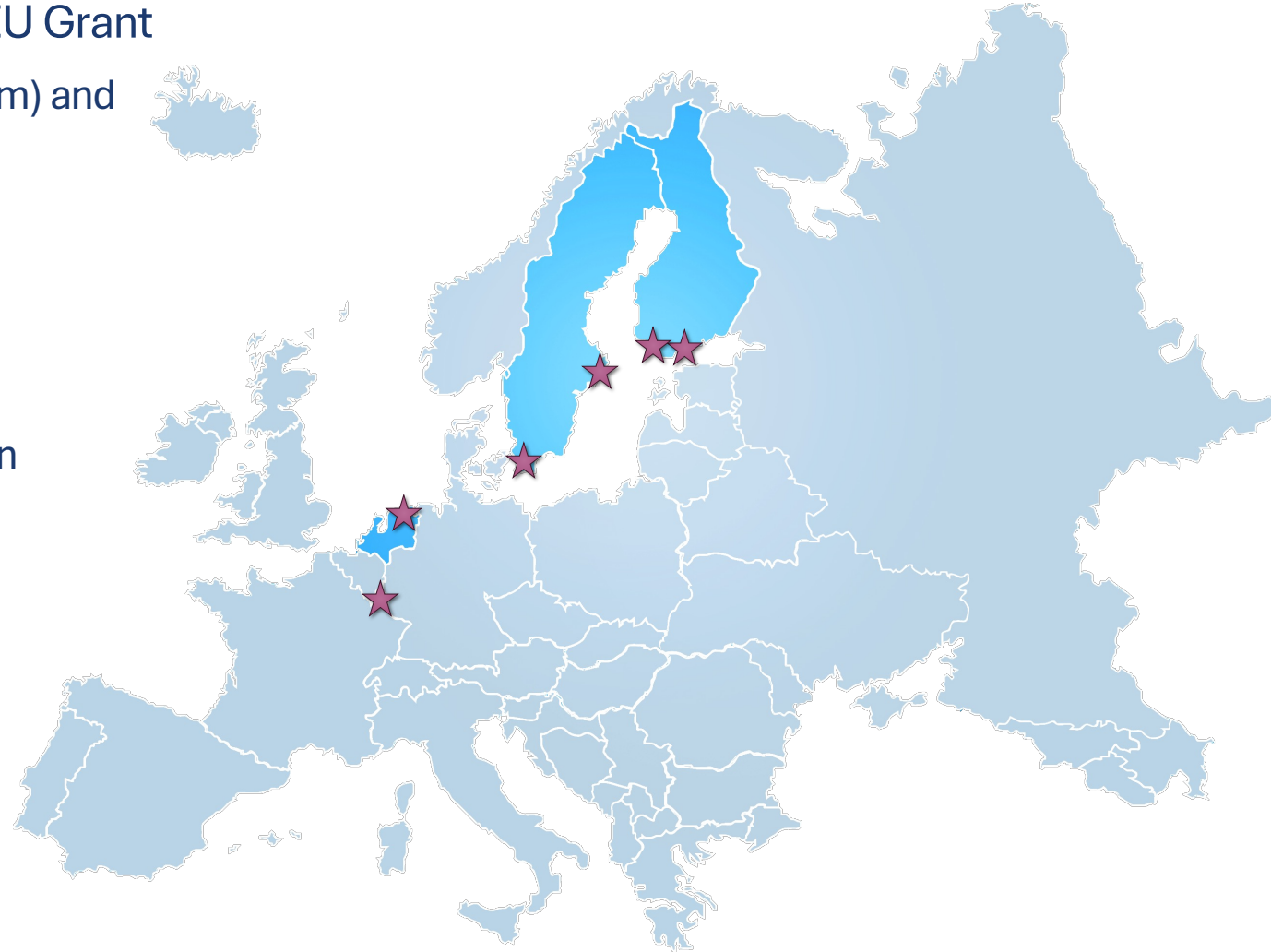
EU Horizon Grant HERMOD Project Funding Directly Three Clinical Sites

■ Currently confirmed participating clinical sites – EU Grant

- **Sweden:** Karolinska University Hospital (Stockholm) and Lund University Hospital
- **Luxembourg:** Central Hospital of Luxembourg

■ Other confirmed sites

- **Finland:** Helsinki and Turku University Hospitals
- **Netherlands:** University Medical Center Groningen
- Additional sites will be included



Co-funded by the
European Union



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- HER-096 is a potentially game-changing therapy that could become the first disease-modifying treatment for Parkinson's disease
- Huge market opportunity: the PD therapeutic market is expected to grow to up to \$13bn by 2034, while no disease-modifying therapies currently available and few are in development
- Herantis is backed by 15+ years of research, with robust external validation and funding from the Michael J. Fox Foundation, Parkinson's UK, and the European Innovation Council
- Broad functionality of HER-096 opens wider therapeutic opportunities beyond neurodegenerative disorders
- Herantis continues partnering discussions while also evaluating financing alternatives to support advancement into Phase 2, including equity and non-dilutive funding