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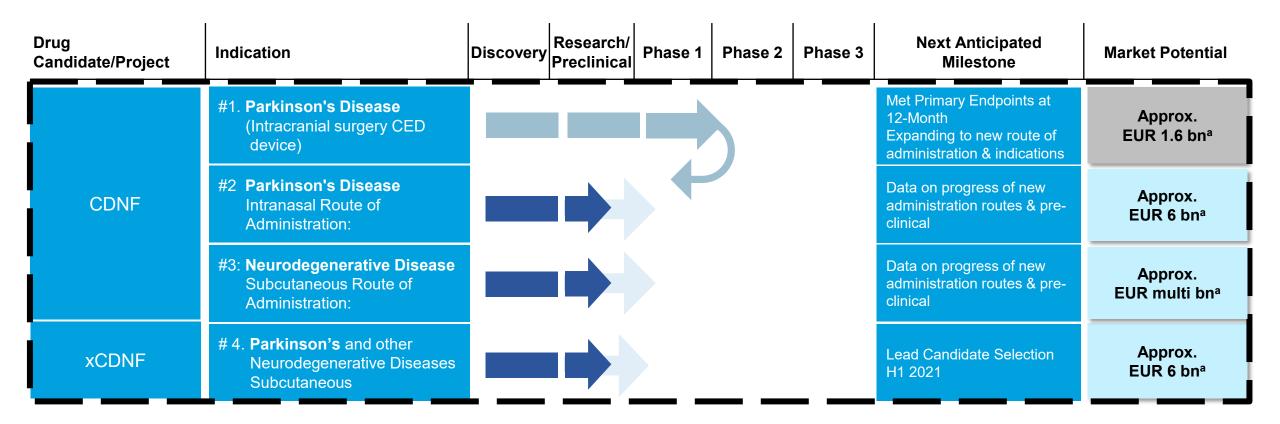


Company Overview

- Headquartered in Helsinki, listed on Nasdaq First North Finland (2014) and Sweden (2019)
- Pure play CNS biotech company as of 2021
- Research focus is on assets that modify disease pathology
- Disease focus is on Parkinson's and other neurodegenerative diseases
- Looking to bring treatments for these diseases into 21st century
- More than a decade of R & D yielding compelling dataset supporting clinical, imaging, biomarker, and genetics



A Pure Play CNS Company Focused on Neurodegenerative Diseases



CDNF = Cerebral Dopamine Neurotrophic Factor



CDNF & xCDNF Key Data

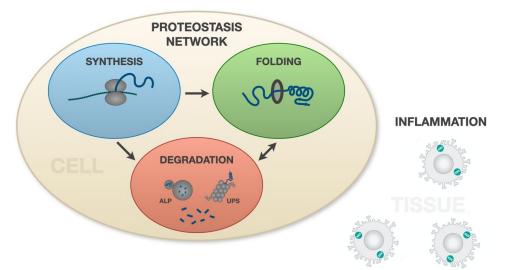
- 1. Mechanism of Action
- 2. Safety
- 3. Biomarkers
- 4. Genetics
- 5. Potency





CDNF and xCDNF Act Powerfully On Key System Of The Body - Proteostasis

- Proteostasis regulates proteins within the body and influences the fate of every protein from synthesis to degradation
- Particularly important in nondividing, long-lived cells, such as neurons, as its failure is implicated with the development of neurodegenerative diseases such as Parkinsons.
- CDNF (a biological protein) and xCDNF (a chemically engineered molecule) are designed to restore the protective effects of proteostasis
- Highly active area of research together with major players Roche, Merck, Biogen, Calico/Google

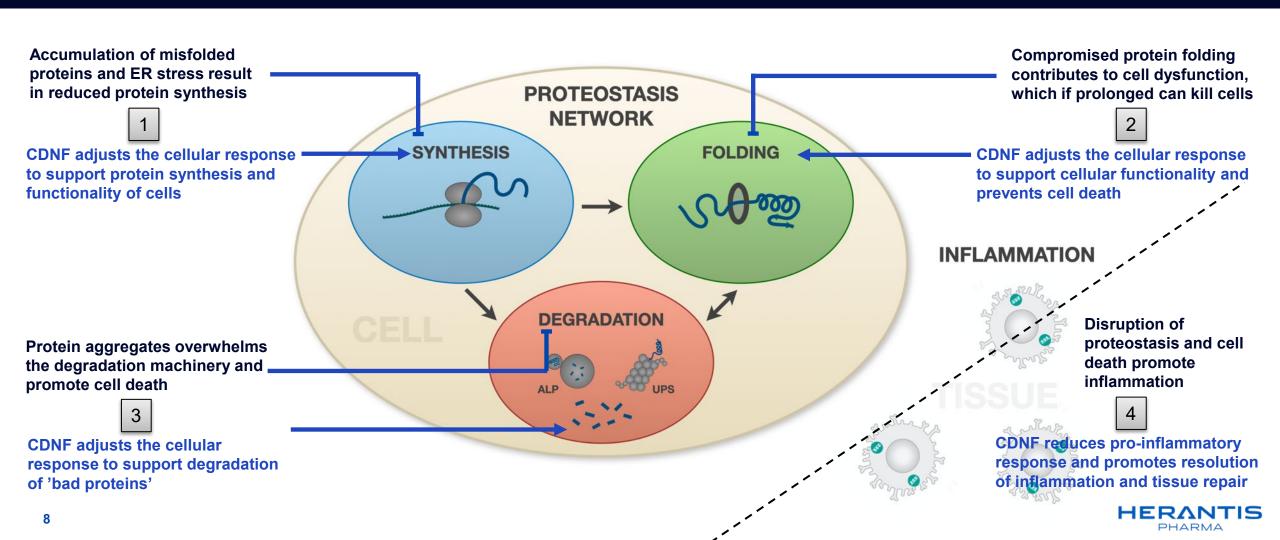




CDNF Targets Core Pathology Of Parkinsons Disease

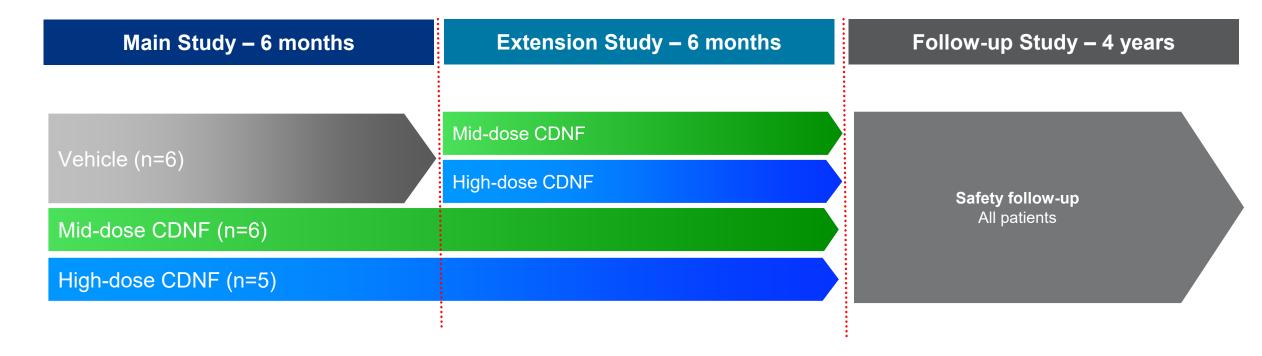
Proteins are the building blocks of everything in the body. Functionality of all cells (particularly neurons) depends on the balance of the three cornerstones of proteome regulation: synthesis, folding and degradation.

If any of these becomes dysfunctional, problems will follow





Phase I Safety Study Successfully Completed

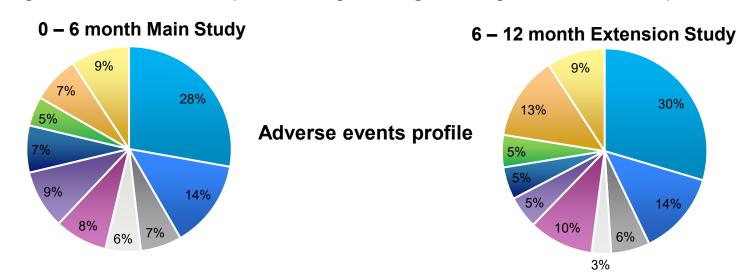


Clinical Characteristic of Enrolled Patients	Placebo n=6	CDNF (low-mid-mid) n=6	CDNF (low-mid-high) n=5
Age (years)	63.8 ± 6.4	63.2 ± 8.9	57.8 ± 6.7
Disease duration since first motor symptoms (years)	10.5 ± 2.7	10.7 ± 3.1	10.8 ± 2.3



CDNF Safety Established

- Majority of the reported drug-related adverse events AE's were mild and transient
- Similar safety profile in Main (0 6 Months) and Extension (6 12 Months) study
- Similar safety profile between dose-groups
- No dose-limiting toxicities related to CDNF
- Serious SAE's related to surgical implantation device and procedures, not related to CDNF
- Not an efficacy study due to advanced stage of patients disease, but ...
 - no worsening of disease, and promising biological signals in some patients



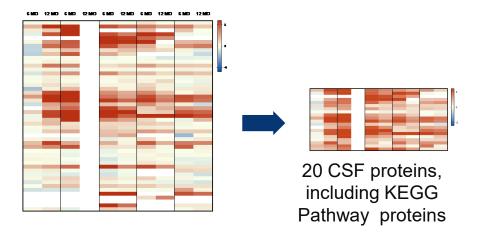




Emerging Evidence Of CDNF Treatment Effects On Biomarkers

- Biomarkers in Cerebrospinal Fluid (CSF) change in response to CDNF treatment in some patients
- Correlated with improvements in motor function and biological dopamine signals
- Some subjects found to carry mutation etiopathologically related to Parkinsons LRRK2, GBA
- Biomarker profiling suggests modulation of proteostasis in response to CDNF treatment

A specific CSF biomarker signature in responders



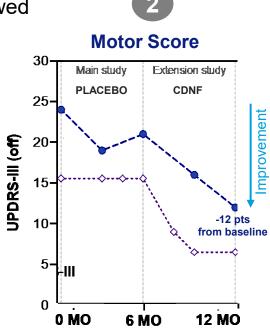
KEGG Pathway (2019 Human)	Adjusted P-value	Odds Ratio	Combined Score
Lysosome	0.01	29.21	243.46
IL-17 signaling pathway	0.05	24.28	135.02
Longevity regulating pathway	0.05	22.09	118.83
Autophagy	0.06	17.51	86.47
Cell adhesion molecules (CAMs)	0.06	15.41	72.43

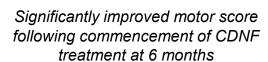


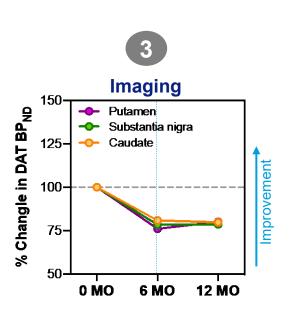
Emerging Evidence Linking Genetic + Clinical + Imaging + Biomarker Data

- o 60+ year
- Disease duration: 10 years (from first motor symptoms)
- 6 months placebo, followed by 6 months CDNF

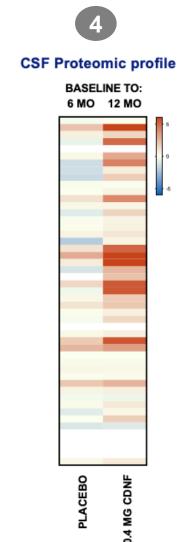
Genotype LRRK2 (G2019S)







Stabilising / increasing dopamine signal following commencement of CDNF treatment at 6 months



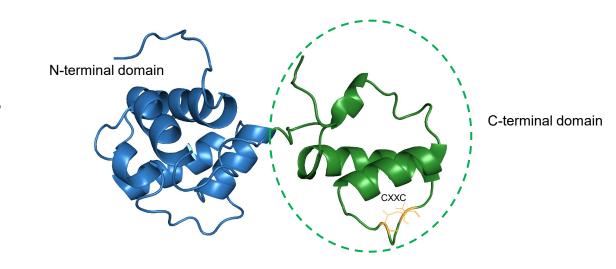
Strong response signal in diseaase and proteostasis relevant markers





xCDNF - Engineered To Achieve Essential Therapeutic Parameters

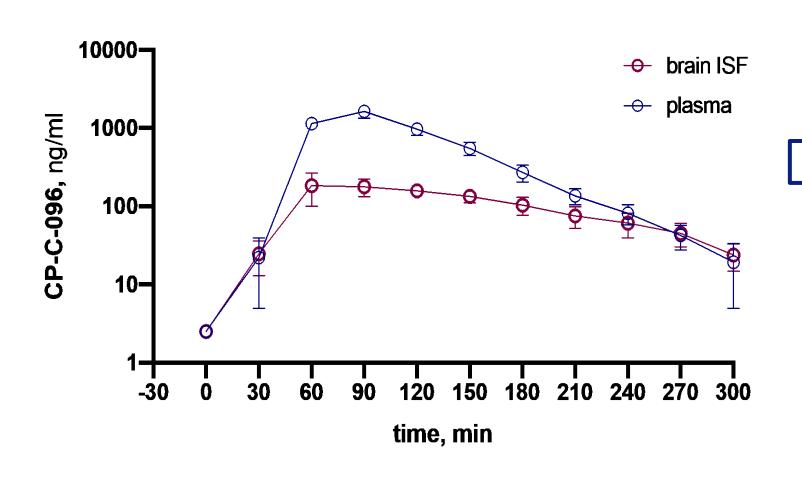
- Synthetic peptidomimetic compound using only smallest most potent fragments of parent CDNF
- Engineered to maintain potency in protecting neurons, as well as to cross the blood brain barrier (BBB) - both critical elements for success of this therapy
- Latest data shows impressive effect on neuronal survival, synuclein reduction, biomarker findings
- Administered via a simple skin injection
- Potential treatment of chronic and acute neurodegenerative diseases





BBB Penetration: At Therapeutic Levels + Extended Half Life In Vivo

DUAL (BRAIN AND PLASMA) MICRODIALYSIS STUDY IN MICE



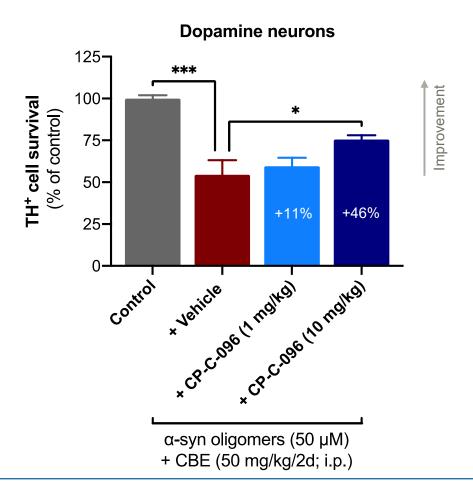
 $K_{p,uu,brain} = 0.216$

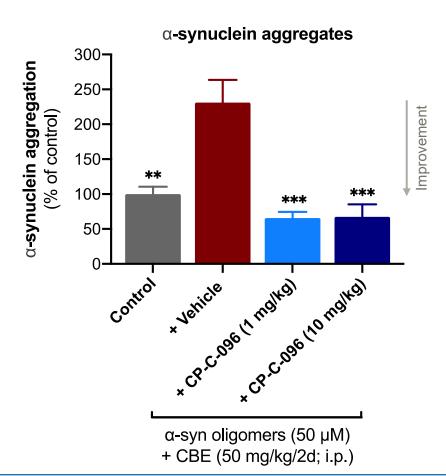




Potency: Protects Dopamine Neurons + Reduces α -Synuclein Aggregates In Vivo

High protection of dopamine neurons, plus almost complete eradication of α -synuclein aggregates





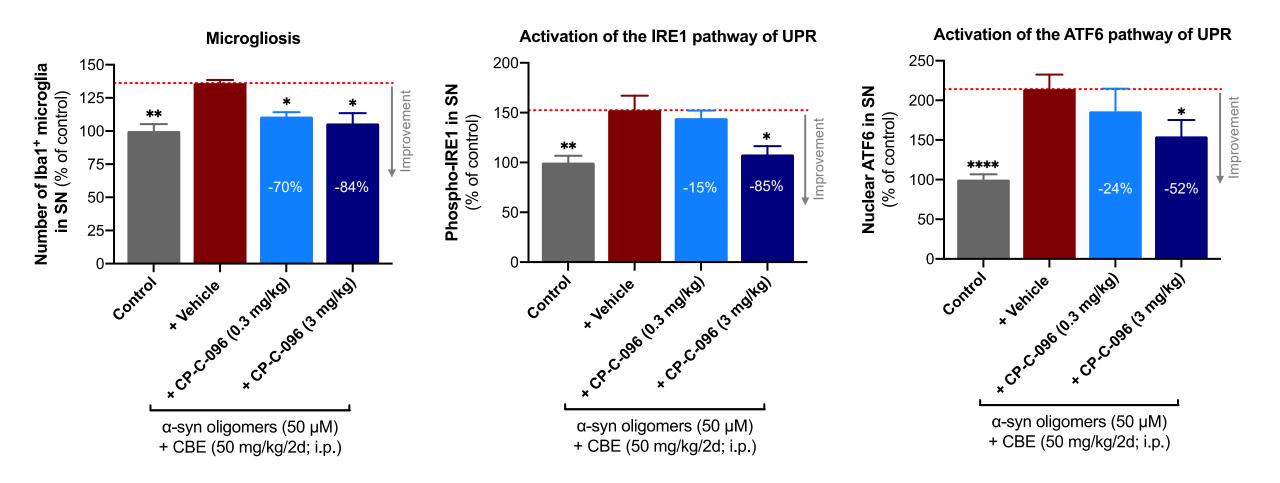


STUDY: Test compound CP-C-096 was administrated subcutaneously in dose 1mg/kg or 10 mg/kg three times per week for four weeks starting from the day of a-synuclein oligomers injection. Animals were sacrificed at day 28 after the model initiation, and neuronal survival and alpha-synuclein aggregation in substantia nigra were assessed by immunohistochemistry (n=5). *p<0,05 ANOVA with post-hoc Fisher's test versus group treated with vehicle.



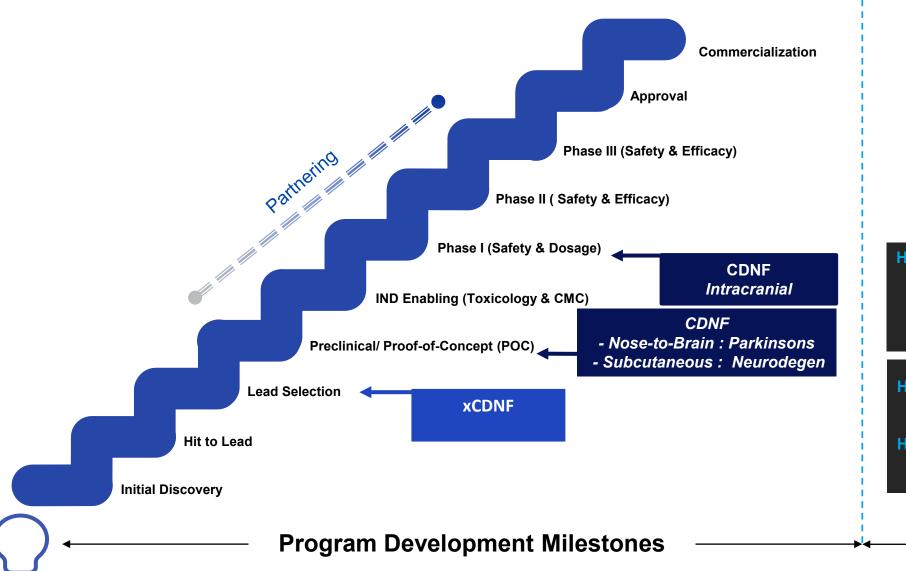
Attenuates Unfolded Protein Response And ER Stress, Reduces Cell Death

Microglial Activation and Unfolded Protein Response Are Attenuated in the Substantia Nigra of Mice Treated with CP-C-096 >80% reduction of key neuroinflammatory/microgliosis marker, and 85% and 52% reductions of activated IRE1 and ATF6





Timelines, Newsflow, Next Steps





H2 2021: Complete formulation and pre-clinical new admin routes for CDNF in Parkinson's and Stroke

H2 2021: Commencement of xCDNF pre-clinical

H1 2021: Selection of lead candidate for xCDNF

Newsflow 2021



Summary CDNF and xCDNF: Persuasive Picture Emerging Across MoA, Clinical, Biomarker, Imaging And Genetic Data

- Strong multimodal MoA for CDNF and xCDNF:
 - Restores **proteostasis** and reduces **neuroinflammation** both key elements of Parkinsons
 - Evidence of target engagement

2. CDNF

- Established safe in humans
- Biomarker response to CDNF treatment, correlates with clinical and imaging findings
- Potential genetic and biomarker patient subgroups emerging
- No worsening of disease over 12 months treatment

3. xCDNF

- Chemical engineering has been successful
- Weekly subcutaneous dosing effectively penetrates BBB, protects neurons,
 and reduces alpha-synuclein aggregation and neuroinflammation



