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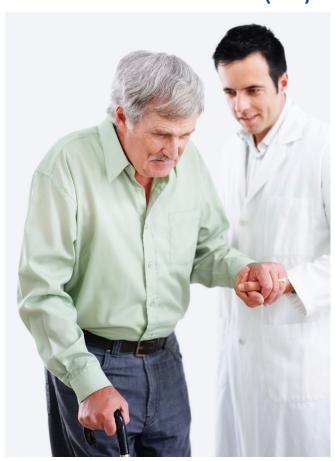
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## Breaking the boundaries of standard therapeutic approaches



### Herantis' target indications

#### Parkinson's disease (PD)



**PD** is an incurable brain disease whose first symptoms include tremors, muscle stiffness

- → Symptoms grow worse with disease progression
- → Known drugs only treat motor symptoms, only for a while

**Lymphedema** (LE) is chronic, progressive swelling due to accumulation of lymph

- → Common consequence of cancer therapies
- → Disabling, disfiguring and painful disease
- → No efficacious therapies

#### **Secondary lymphedema**



### Parkinson's facts:

- Second most common neurodegenerative disease:
   7-10 million patients
- Estimated annual financial burden of PD is \$50 billion
- Progression-stopping therapy would save the society over \$400,000 per patient in the USA\*

\*University of Pennsylvania's National Parkinson Foundation

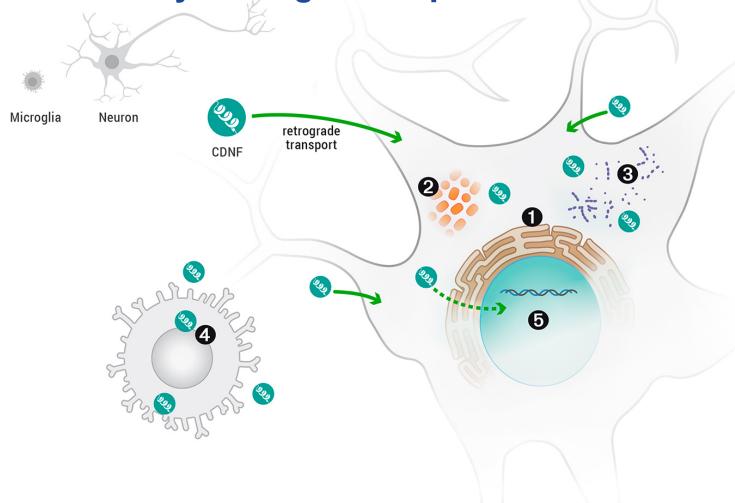
### Lymphedema facts:

- 140 million LE patients
- 2 million breast cancer diagnosis annually
  - → 30% of patients who undergo mastectomy will develop Breast Cancer Associated Lymphedema (BCAL)
- In USA, annual cost of lifelong symptomatic BCAL treatment \$10,000 - \$20,000



# By developing disease-modifying treatments, we fight both human suffering and societal costs

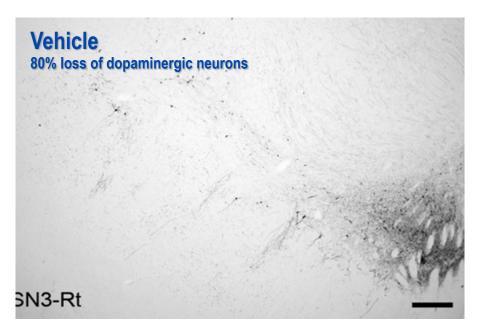
## PD: Our drug candidate CDNF promotes neuronal survival and recovery through multiple relevant mechanisms

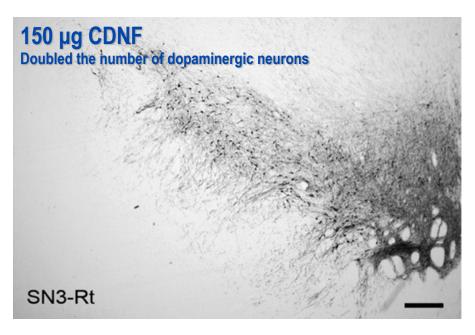


- CDNF promotes neuronal survival and functionality by reducing endoplasmic reticulum (ER) stress
- 2 CDNF promotes neuronal survival by activating Protein Kinase B (Akt)
- **3** CDNF inhibits α-synuclein oligomerization and toxicity
- 4 CDNF suppresses production and secretion of proinflammatory cytokines by glial cells
- © CDNF supports maintenance of neuronal functions by enhancing transcription of genes involved in e.g. dopamine synthesis and metabolism



### CDNF doubled the number of neurons in a PD model\*





- Disease model: MPTP lesion model in aged Rhesus monkey
- Three monthly CDNF doses doubled the number of DA neurons
- Significant improvement in gross motor function, fine motor function, and for the first time in the world, non-motor symptoms



<sup>\*</sup> Research collaboration with University of Pittsburgh funded by Michael J. Fox Foundation

### **CDNF** may change how patients live with PD

Currently in Phase 1-2 clinical study funded by EU: "Leading science, greatest potential to advance clinical practice"







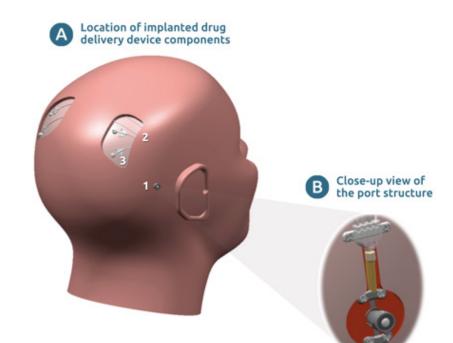


- > Study fully recruited: 17 patients randomized in CDNF vs. placebo groups
- ➤ Topline results expected in Q1/2020
- ➤ First-in-human study in advanced PD patients → Primary endpoint is safety



### **Next generation: xCDNF**

 Common challenge in brain diseases is drug delivery in the brains → CDNF is dosed directly in brains using medical device



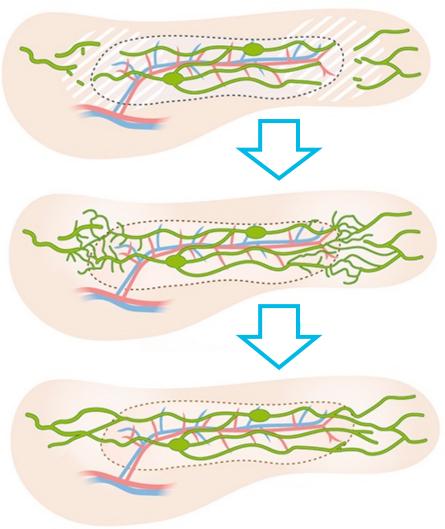
- Next step: we have shown that certain CDNF fragments:
  - 1. Retain its biological activity (comparable efficacy in PD models)
  - 2. Penetrate the BBB → much simpler administration
  - Have potential in several indications beyond PD: E.g. Alzheimer's, ALS, stroke
  - Based on current data xCDNF could be administered as easily as insulin



## Lymfactin® gene therapy for curing secondary lymphedema

## Lymfactin®: VEGF-C gene therapy to reconstitute the lymphatic system

- A single Lymfactin® injection results in local VEGF-C expression for about 2 weeks
- VEGF-C is the natural human protein that promotes the growth of lymphatic capillaries
- Lymphatic capillaries mature into functional lymphatic vessels, reconstituting the lymphatic system





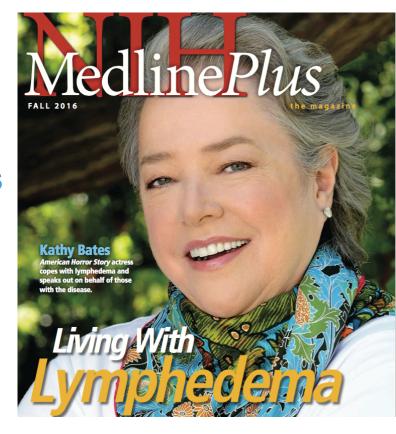
### Lymfactin® development

- Actively recruiting patients with breast cancer associated LE (BCAL)
  - → Adjunct to lymph node transplantation surgery, which attempts to relieve symptoms
  - → Study centers: 5 university hospitals in Sweden and Finland
- Safety established in Phase 1 study with same approach
  - → Promising improvements observed in signs and symptoms of LE (uncontrolled data)
- ➤ Target: 40 patients randomized in Lymfactin® vs. placebo groups
- > Topline results expected by end of 2020 (12-month follow-up)
- > Primary endpoints: Efficacy in signs and symptoms of LE



### Lymphedema: Market and awareness

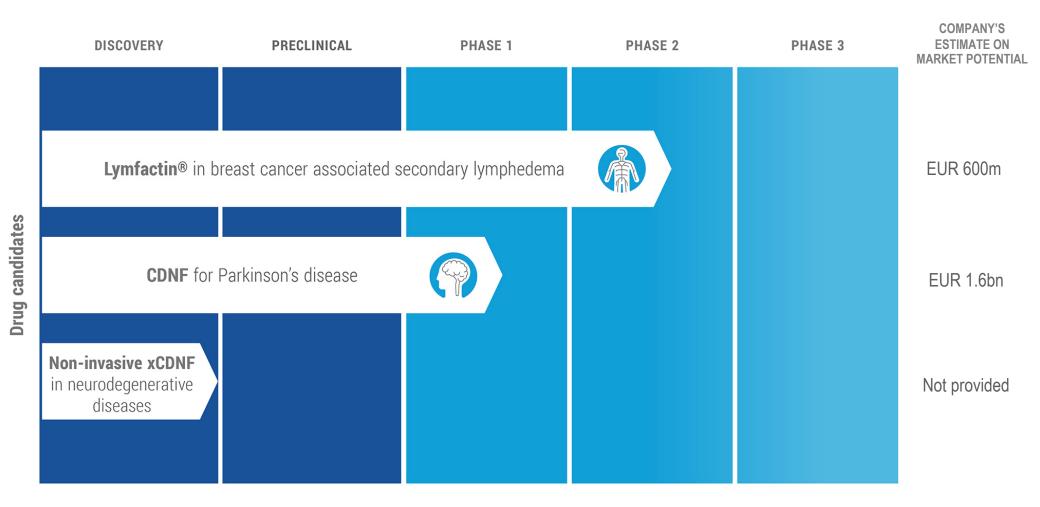
- 140 million LE patients worldwide
- €600M market for Lymfactin® as an adjunct therapy in BCAL\*
  - → Significant potential in other lymphedemas
- Lymphedema awareness increases
  - → Herantis is a partner of LE&RN, international patient advocacy group
  - → Hollywood superstar Kathy Bates is an active LE&RN spokesperson





## Summary and Public Offering in Sweden

### Based on leading science, CDNF and Lymfactin® are in placebo-controlled studies targeting unmet clinical needs





## Public company in Finland since 2014: Now dual-listing in Sweden



- Herantis announced on 11 Nov 2019:
  - → Public offering in Sweden and Denmark, and private placement: max 618,018 shares to be issued at 71 SEK (~€6.65) per share
  - → Application to Nasdaq to have Herantis' shares listed in Nasdaq First North Sweden in December 2019
- Reason for dual-listing:
  - → Increase the liquidity of our shares, prepare for the next stage in our drug development
- Use of proceeds:
  - → Herantis currently expects to use the net proceeds for preparations of the Phase 2 and Phase 3 clinical studies of CDNF and Lymfactin®, for the preclinical development of a non-invasive CDNF, for strengthening the Company's capital structure, and for other purposes decided by the Board of Directors of Herantis



### Selected financials as reported 1H/2019

	H1/2019	H1/2018
Cash end of period	5.6 MEUR	4.0 MEUR
Cash flow from operations	-2.7 MEUR	-1.8 MEUR
Personnel	9	9

- Market cap approximately 450 MSEK (Nov 18<sup>th</sup>, 2019)
- Last funding round in 3/2019
  - → Cornerstone investor: Swedbank Robur's healthcare fund Medica
- Company is fully funded to reach unblinding in both randomized trials
  - → Full subscription in Swedish IPO would be expected to fund the company through Q1/2021



### Meet us during subscription period in Nov!

- Scheduled events at United Bankers, Cardellgatan 1, Stockholm (5 min from Stureplan)
  - → Please register by e-mail: event@unitedbankers.com

Date	Time	Notes
Thu, Nov 21st	12:00 – 13:00	Light lunch served
Thu, Nov 21st	15:00 – 16:00	Coffee served
Fri, Nov 22nd	12:00 – 13:00	Light lunch served
Tue, Nov 26th	12:00 – 13:00	Light lunch served
Tue, Nov 26th	15:00 – 16:00	Coffee served

- Subscriptions can be made through Nordnet: <a href="https://next.nordnet.se/">https://next.nordnet.se/</a>
   se/kampanjer/ipo/herantis-pharma/nordnets-disclaimer-herantis
- See herantis.com/information-memorandum/ for details



### HERANTIS

### Thank you

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