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Where do pharmaceuticals come from?



Novel drugs are based on science

- Scientific discovery on disease mechanisms; or
- Novel molecule, which may be clinically relevant

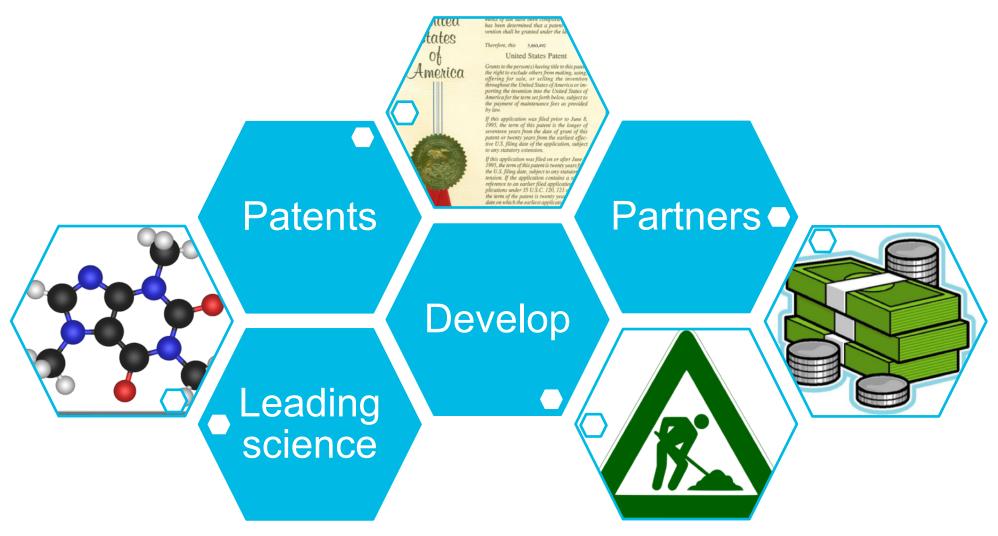
Optimize Laboratory tests

Preclinical studies

Clinical trials



Herantis' drug development strategy



Herantis Pharma på svenska



- Herantis Pharma är ett innovativt läkemedelsutvecklingsbolag med inriktning mot regenerativ medicin med två proprietära läkemedel i kliniska tester:
 - → CDNF mot Parkinsons sjukdom: ämnar att stoppa sjukdomens utveckling
 - → Lymfactin® mot sekundär lymfödem: världens första och enda genterapi i klinisk testfas (fas II) som reparerar skador på lymfsystemet
- Båda är baserade på världsledande medicinsk forskning
- Herantis Pharmas aktie är noterad på Nasdaq First North Helsingfors
 - → Vi planerar att notera vår aktie på **First North Stockholm** under 2019



Neuroprotective factor CDNF for stopping the progression of Parkinson's disease

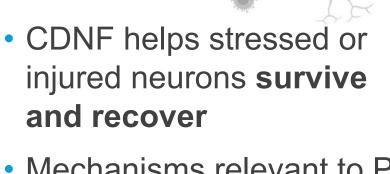
Parkinson's disease (PD)

- Progressive neurodegenerative disease impacting 7-10 million people
- Estimated annual financial burden of PD is \$50 billion
- L-dopa, a standard-of-care, has been used since 1960's!
- Known therapies only alleviate motor symptoms; Herantis' CDNF aims to also stop disease progression





CDNF's natural role is to help neurons survive



Mechanisms relevant to PD

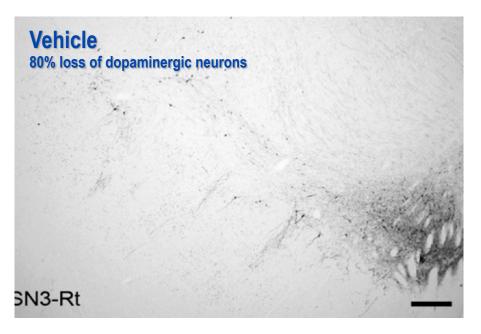
 Promising data in several neurological

diseases



CDNF

CDNF doubled the number of neurons in a PD model*





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

 *Research collaboration with U

* Research collaboration with University of Pittsburgh funded by Michael J. Fox Foundation

HERANTIS

CDNF may change how patients live with PD

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







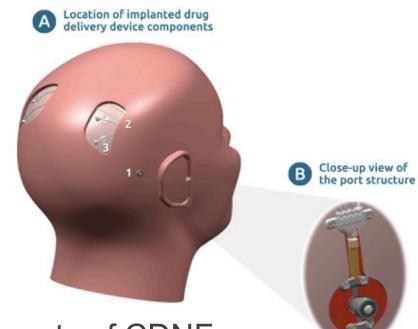


- > Study fully recruited: 17 patients randomized in CDNF vs. placebo groups
- Topline results expected by end of 2019
- ➤ First-in-human study in late-stage PD patients → Primary endpoint is safety



Next generation: xCDNF

 Common challenge in brain diseases is drug delivery in the brains → CDNF is dosed with sophisticated medical device



- We have shown that certain fragments of CDNF:
 - 1. Retain its biological activity (comparable efficacy in PD models)
 - Reach the brain with systemic dosing → much simpler administration
 - 3. 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

Secondary lymphedema

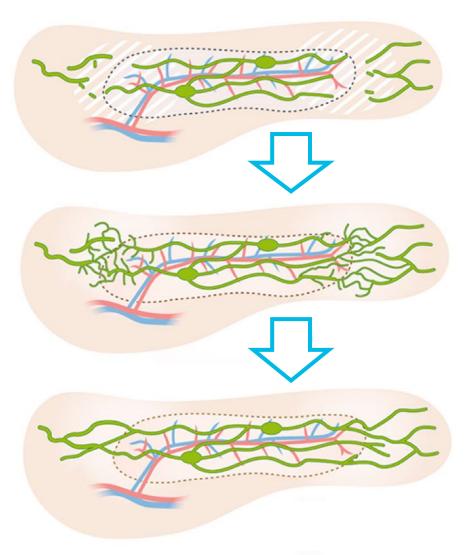
- Lymphedema (LE) is chronic, progressive swelling due to accumulation of lymph
 - → Disabling and disfiguring disease
 - → No approved drugs for treatment
- Herantis' Lymfactin® is a gene therapy that aims to repair the lymphatic system





Lymfactin® aims at reconstituting the lymphatic system

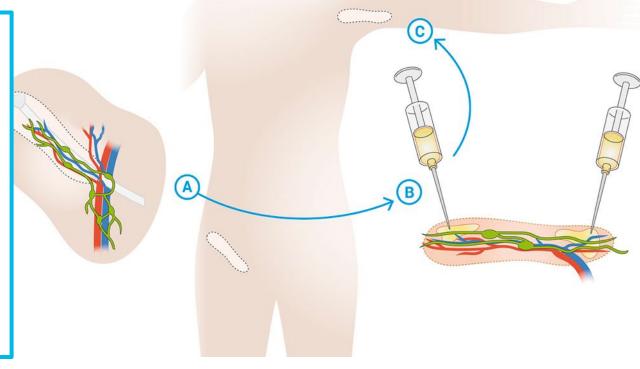
- A single Lymfactin® injection results in local VEGF-C expression for about 2 weeks
- 2. VEGF-C is the natural human protein that promotes the growth of lymphatic vessels
- 3. Functional lymphatic system is reconstituted





Lymfactin® is in Phase 2 clinical studies

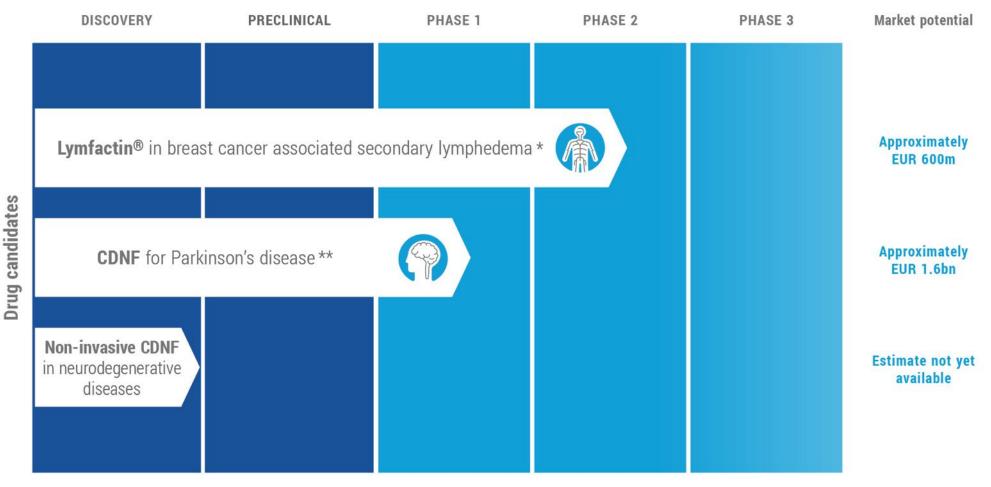
- Actively recruiting patients with breast cancer associated LE who are undergoing lymph node transplantation as an attempt to relieve symptoms
- Study centers: 5 university hospitals in Sweden and Finland
- Target: 40 patients randomized in Lymfactin® vs. placebo groups
- ➤ Topline results expected by end of 2020 (12-month follow-up)
- Primary endpoints: Efficacy in signs and symptoms of LE







CDNF and Lymfactin® are in placebo-controlled studies that target significant unmet needs

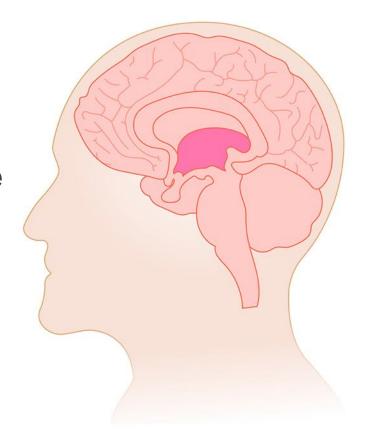


^{*} Randomized, double-blind, placebo-controlled Phase 2 clinical study ** Randomized, double-blind, placebo-controlled Phase 1/2 clinical study



Herantis Pharma

- Targeting disease modification in significant unmet medical needs, large and well-defined markets
- Programs based on internationally renowned science published in Nature and Science
- Funded to reach unblinding in two randomized clinical studies
- Considering possible dual listing in First North Sweden in 2019



About Herantis' management and shareholders

- International and experienced Board of Directors
- Herantis' management has actively purchased shares both from the market and participated in share issues
- All insider trading published on the company's website
- Cornerstone investor in last funding round (3/2019) was Swedbank Robur's fund, Medica



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Thank you

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