

HERANTIS PHARMA

From leading research to business

Health Capital Helsinki & Meilahti Think Company Grand Opening

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Herantis Pharma Plc

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Nasdaq First North
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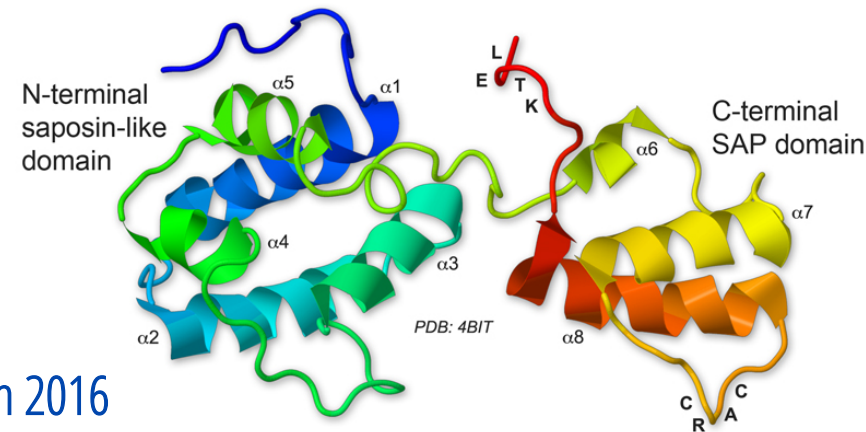
- Nasdaq-listed (IPO 2014) drug development company developing novel pharmaceuticals based on leading scientific research
- Focus in **regenerative medicine** - growth factors in indications with significant unmet clinical needs
- Main drug candidates are based on globally leading scientific research at the **University of Helsinki**, in Academy of Finland's Centre's of Excellence
 - Academy professor Kari Alitalo: Lymfactin, for the treatment of lymphedema
 - Professor Mart Saarma: CDFN for the treatment of Parkinson's disease and other neurodegenerative diseases

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CDNF for Parkinson's disease

Based on preclinical data we believe that CDNF is the most promising compound for a disease-modifying treatment of Parkinson's disease.

- Parkinson's disease (PD) is a progressive neurodegenerative disease, which cannot be cured
 - Estimated seven million patients worldwide
 - Available treatments are symptomatic and only help the motor symptoms of the disease
- CDNF is expected to relieve both motor and non-motor symptoms of PD and slow progression
 - CDNF protects and restores dopaminergic neurons based on preclinical studies in several PD models
 - Addressing non-motor symptoms shown in NHP studies
 - Based on preclinical data CDNF is more potent than GDNF, a Phase 2 compound partnered to Pfizer
- Herantis has submitted Clinical Trial Application for the First-in-human clinical study to start patient recruitment in 2016
 - 18 patients, randomized, placebo-controlled



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Lymfactin[®] for secondary lymphedema

Based on scientific studies we believe that damage to lymphatic system leading to secondary lymphedema can be treated with Lymfactin[®].

- Secondary lymphedema is a chronic progressing disease with no approved medicines
 - Estimated 30,000+ patients annually in the USA and Europe as a consequence of breast cancer therapy
 - Main symptom is a permanent swelling of affected limb with significant impact on quality of life
- In preclinical models Lymfactin[®] has promoted new lymphatic growth in the damaged area
- Phase 1 clinical study approved to start patient recruitment in 1H/2016: Gene therapy will be applied to repair the lymphatic system in humans for the first time in the world
- Market size estimated in € hundreds of millions



CDNF for ALS (Lou Gehrig's disease)

ALS is an aggressive motoneuron disease with no cure. In preclinical studies, a single CNDP injection has prolonged survival and reduced symptoms in a mouse model of ALS.



- Estimated 140,000 diagnosed cases per year worldwide
- First symptom typically weakness of limb muscles
 - Disease progression causes difficulty in moving, speaking, swallowing, and eventually breathing, leading to death
 - Huge unmet clinical need – no known treatments that provide essential help
- Preclinical studies are on-going to assess the benefits of multiple dosing of rhCDNF
- In the golden standard ALS model, the efficacy of a single CDNF dose at symptom onset was comparable to daily Riluzole started 40 days before symptom onset
- Herantis' plan is to proceed to clinical development as soon as possible

Herantis Pharma summary

- Globally leading research at University of Helsinki has created a Nasdaq listed company aiming to start two unique first-in-human clinical studies in 2016
- Both studies will be done in Finland¹, for the benefit of:
 - Finnish patients, whom we can at least give some hope in their unmet clinical needs even though there is no guarantee of positive outcomes
 - Finnish academic research
 - Finnish clinicians – great learning opportunity
 - Finnish businesses – several companies involved in the clinical studies
 - Finnish economic growth - both products have tremendous global business prospects if successful
 - Finnish healthcare system – study sponsor pays for many expensive treatments and diagnostics

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¹In Parkinson's disease, patients are planned to be recruited also in Sweden

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Thank you

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