



# Company presentation Dec 2016

Lymfactin® and CDNF: Aiming at breakthrough in unmet clinical needs

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# Herantis Pharma Plc

- Public drug development company developing novel pharmaceutical products based on globally leading science
- Focus in regenerative medicine, developing novel compounds with breakthrough potential in indications with significant unmet clinical needs
- Herantis' proprietary, patented clinical stage compounds are:
  - Lymfactin® gene therapy for secondary lymphedema
  - CDFN protein therapy for Parkinson's Disease and other neurodegenerative diseases
  - Cis-UCA Eye Drops for Dry Eye
- Herantis' shares are listed in Nasdaq First North Helsinki with ticker 'HRTIS'

# Herantis development pipeline

Drug candidate	Indication	Preclin	Phase 1	Phase 2	Phase 3
Lymfactin®	Secondary lymphedema	△	△		
CDNF neuroprotective factor	Parkinson's disease*	△	△		
CDNF neuroprotective factor	Amyotrophic lateral sclerosis (ALS)	△			
CDNF neuroprotective factor	Other neurodegenerative diseases	**			
Cis-UCA Eye Drops	Dry Eye	△	△	△	
Cis-UCA Emulsion Cream	Atopic dermatitis	△	△	△	

\*Phase 1 started by submissions of Clinical Trial Applications

\*\*Promising unpublished preclinical data exist. Formal development program not started.

# Lymfactin® for secondary lymphedema

*Lymfactin® is the world's first clinical stage gene therapy aiming to repair the lymphatic system*

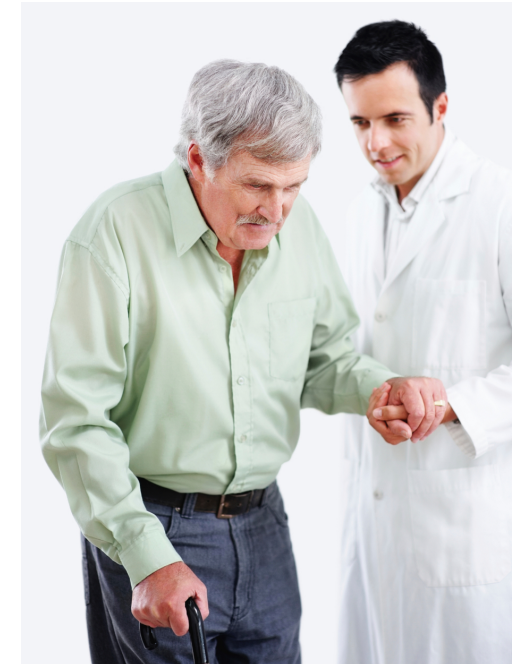
- Secondary lymphedema is a chronic progressing disease with **no approved medicines**
  - Lymphedema significantly impacts quality of life and is of growing awareness as significant unmet clinical need; in 2016, March 6<sup>th</sup> declared World Lymphedema Day
- Preclinical data suggest Lymfactin® can **repair the cause of lymphedema**
  - World's first clinical stage gene therapy aiming to repair the lymphatic system
  - Potential also in primary lymphedema in combination with our patented CCBE1
- Phase 1 clinical study ongoing **in patients with breast cancer associated lymphedema**
  - Top-line results expected in 2017
- Market size estimated in € hundreds of millions



# CDNF for Parkinson's disease (PD)

*Preclinical data suggest CDNF is the most promising disease-modifying treatment for PD*

- Parkinson's disease is a progressive neurodegenerative disease, which cannot be cured
  - Estimated seven million patients worldwide
  - Current market over \$3 billion with treatments that only help motor symptoms of the disease
  - Disease modification and non-motor symptoms remain as huge unmet clinical needs
- Based on broad preclinical data CDNF is expected to address both motor and non-motor symptoms and slow disease progression
  - CDNF protects and restores dopaminergic neurons based on studies in several preclinical PD models (both rodents and primates)
  - Completed extensive toxicology program suggests benign safety profile
- The European Union has granted €6 million for our Phase 1-2 randomized, placebo-controlled clinical study in Parkinson's disease



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# Herantis' assets based on globally leading science in their fields

CDNF based on long term research by professor Mart Saarma

- Vice President of European Research Council (ERC)
- Numerous international science prizes including Karl Schlossmann Science Prize, Runeberg Medical Science Prize, Finnish Innovation Prize, Estonian State Prize for Science and Technology
- Among leading and most appreciated researchers in the world in the field of neurotrophic factors



Lymfactin® based on long term research by professor Kari Alitalo

- Over 500 scientific publications
- Numerous international science prizes including InBev-Baillet Latour International Health Prize, Louis Jeantet Prize for Medicine, Anders Jahre Prize, Dr. A.H.Heineken Prize
- Among leading and most appreciated researchers in the world in the field of vascular endothelial growth factors (VEGFs)



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Thank you