

Lead Pharma Holding BV. is a company that is focused on development and commercialization of innovative therapeutics and nutraceuticals against ageing related diseases

Lead Pharma Holding BV. (LPH) is a small, young and dynamic pharmaceutical company located in Den Bosch and Nijmegen, the Netherlands. LPH is a spinoff company of the Hubrecht Institute (Royal Dutch Academy of Sciences (KNAW)) and the University Medical Center Utrecht (UMCU). LPH is dedicated to develop new medicine against ageing related diseases, especially chronic heart failure, and was founded in December 2005. The team of LPH consists of 20 scientists and lab technicians that are actively involved both in basic and clinical research.

LPH has developed an innovative strategy that is based on 15 years extensive scientific research in chronic heart failure and other age related diseases and has resulted in the discovery of unique disease mechanisms and methods to discover new medications. For the identification of new chemical structures LPH uses computational chemistry, structural protein chemistry and human phenotypic/generic cellular disease models as well as ADME Tox models. The latter are derived from organ specific stem cells, cq progenitors. These human progenitors can be differentiated into adult cardiomyocytes, endothelia, vascular smooth muscle cells or other human cell types. These adult human cell models are used as a screening models and validation tools to identify chemical structures. Furthermore LPH uses the following techniques to identify new chemical structures against their targets:

- Proteomics – mass spectrometry.
- Molecular biology – detection and cloning.
- Protein productions.
- 3-dimensional computer models of the protein of interest and homology modeling X-ray crystallography.
- 2-D NMR
- Stem cell technology

LPH's approach will result in new classes of curative drugs for chronic heart failure and other age related diseases.

LPH has the intention to develop chemical structures throughout the pre- clinical phase. Lead Pharma wants to undertake the clinical development and market launch in collaboration with partner companies.

The aboved mentioned approach and techniques are offered for contract research and other forms of partnering.

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