



LipidArt Ltd.

Temesvári krt. 62.
H-6726 Szeged, Hungary

Phone: + 36 62 432038

info@lipidart.com

www.lipidart.com

MISSION

LipidArt's mission is to develop a generation of novel pharmaceutical products for a wide range of human diseases using a revolutionary drug development platform based on selective stress protein induction by the refinement of microdomain structure of the cellular membranes. This discovery platform exploits a paradigm shift in the understanding of stress protein response to address major illnesses such as cancer, neurodegenerative diseases (Alzheimer's) and metabolic syndrome (diabetes, lipid storage diseases).

CORE TECHNOLOGY

The company's technology platform was fostered in the work carried out at the Biological Research Centre of the Hungarian Academy of Sciences in Szeged, Hungary (BRC). In the last 15 years, the founders have carried out pioneering work to set up a new "membrane sensor" model whereby thermal stress is transduced into a cellular signal at the level of the membranes. It has also been demonstrated that the specific and reversible interactions of some amphitropic heat shock proteins (Hsps) with the lipid phase of the dynamic, yet structured, membranes act primarily as a tool for rapid regulation of the membrane physical state and thereby preservation of various membrane functions, especially under fluctuating stress conditions. LipidArt established a mechanism for the interconnection between changes of lipid composition, fluidity and microdomain organization of membranes and altered expression of Hsps in various model organisms. LipidArt's technology can be utilized for screening and identifying novel compounds targeting membranes and Hsps. Recently, LipidArt's researchers have discovered a family of new compounds which are able to modify Hsp function.

ORGANIZATION

LipidArt was founded in 2007 as a spin-out of BRC. LipidArt's research laboratories are located at the BRC in Szeged. The laboratories are primarily utilized for internal discovery research, and have access to a wide scale of laboratory equipment for molecular biology, biophysical technologies and lipidomics. LipidArt's experts have gained extensive experience in ultra-sensitive high content fluorescence microscopy, confocal microscopy, mass spectrometry and a wide range of analytical techniques.