Mission:
To establish and disseminate technological and medical competencies within the health scene “from molecule to society”.

Staff 280+ : 230 Scientific and 50 TAP

Students 1600+ B+M and app. 100 enrolled phd-stud.

Publications 765 Research Publications in 2015

Turnover 183 mill DKr in 2015 of this 50 mill DKr was from external funding
HST is an international working place
SUND(S) UDVIKLING

1978
Medicoteknisk forskningsmiljø på AAU

Sundhedsinformatik
1994

Sundhedsteknologi
2000

2002
Institut for Medicin og Sundhedsteknologi

Medicin med industriel specialisering
2005

Idræt
2007

Klinisk videnskab og teknologi
2008

Idræt
Medicin
Idrætsteknologi
2010
Det Sundhedsvidenskabelige Fakultet

Folkesundhedsvidenskab
2012

Sexologi
Medicin
2013
Klinisk Institut

Smerte og tværfaglig og tværfaglig smertebehandling
2014
Fr. Bajersvej
Niels Jernesvej
Strandvejen
Nordkraft
Rendsborgsgade
Aalborg Hospital

12000++m²
In 2020 Part of new 25.500m²
Biomedicine

Molecular Medicine

Neurobiology (BBB)

Immunology (Cancer)

Stem cells

Ulcer healing

GMP

Bio-Photonics

www.hst.aau.dk
SMI
Neuro-rehabilitation and Motor control

Rehabilitation
Neural Prosthesis
Electrodes / FES
Brain Comp. Interfaces
Biomechanics
Sports sciences
Welfare Tech / E-Health

www.nst.aau.dk
Medical Informatics / Telemedicine

Decision Support

Tele-home-care

Image Analysis

EPJ / EHR

Respiratory Systems

Cardiac diag.

Diabetes - DIAS

Infections - Treat

COPD – TeleKat/TeleCareNord

Alzheimer

Intensive Care - Alpe

Cardiac Disorders – AalQTec / CardioSound

www.hst.aau.dk
Public Health
Epidemiology
Clinical Guidelines

Prepregnancy Obesity and Associations With Stroke and Myocardial Infarction in Women in the Years After Childbirth: A Nationwide Cohort Study
Michelle Dolgas Schmiegelow, Charlotte Andresson, Lars Kober, Søren Skott Andersen, Jonas Bjerregaard Olesen, Thomas Bo Jensen, Aziza Azimi, Mia Birgitte Nielsen, Grunna Gislason and Christian Torp-Pedersen
EDUCATIONS

Educations where HST is main-entrepreneur

Physioterapy and science, cand 2018???
Pain Master 2013
Public Health cand 2012
Medicine bach 2010
KVT - Clinical Science and Technology (2008)
Idræt / Sports cand (2008)
Idræt / Sports bach (2007)
Sundhedsteknologi / BSc+MSc. in BME (2000)
Master in health informatics (1995)
Ph.d. i Biomedical Science and Engineering (1993)
Medicoteknik: BME MSc (1978)

Problem Based Learning
Tell me and I will forget,
Show me and I might remember,
Involve me and I will understand,

Old chinese proverb
Step back and I will act.
Innovation from HST research

Since 2000:

- >110 inventions reported
- >50 patents applied
- >20 inventions sold
- >18 spinouts
- Numerous collaborations with industry

www.hst.aau.dk
Neuro-muscular diagnostics

The Viking Quest from Judex Datasystem (spinn out fra Aalborg University in 1981) first marketed by US-company Nicolet, now Natus, is still a world leading EMG / neuromuscular diagnostic tool.

Used for nerve conduction studies, single fiber EMG and EP-diagnostics

Nicolet™
Neurodiagnostics, Monitoring and Supplies

www.hst.aau.dk
Rehabilitation Technology
University driven spin-out

The iTongue device is from TKS A/S a spin out fra Aalborg University in 2006. The company was incubated and now hosted by innovation-park NOVI.

Used to give wheel chair patients, typically tetraplegics, a mean to control and communicate, without ”hands” and hence invisible.
Acoustic detection of atherosclerosis

Student/University driven spin-out

Acrex A/S

Acrex a/s initiated in 2009 by Coloplast and AAU.

100 mio DKr in seed capital
Department of Health Science and Technology

do:

• Perform research in important aspects of the medical and technological scene from molecule to society on highest level.

• Produce candidates and PhD’s for industry, academia and the health&public sector.

• Brings research in play by intense collaboration with society, industry, academia and the health sector, and we have a strong desire to expand collaboration locally and world wide!