

Biomarkers Commercialization

A Baltic Sea Region Project

Scanbalt Forum
Tallinn, 18th October 2017

Biomarkers Definition

- **Biomarkers (*biological markers*)** = measurable changes in the body which can serve as indicators for diagnostic, prognostic or monitoring of a disease.
- **Measurable changes** can be:
 - **Chemical:** structural changes of molecules (proteins, lipids, metabolites, DNA, RNA)
 - **Physical:** changes in biological signals such as EEG, EKG, blood pressure, tissue volume, etc
 - **Biological:** antibody production, secretion or excretion of fluids, etc

Biomarkers use

- **Potential use:**

- disease risk assesment
- diagnostics
- treatment effects
- treatment adjustment

} Personalized medicine



- **Beneficiars:**

- Patients
- Clinicians
- Researchers
- Pharma industry

Challenges in Biomarkers Commercialisation

- Biomarkers are part of the future of **diagnostic and treatment** and favorize the development of **personalized medicine**
- But there is a **gap** between biomarker discovery and **clinical use**
- Development of diagnostic tools are **long and expensive** (validation, regulatory)
- No fitting **business models** so far
- Not enough **collaboration** between researchers, hospitals and industry

Biomarkers Commercialisation (BiC)

Aim of BiC project:

- Compile knowledge about and experience with biomarkers
- Create a synergetic standardization of biomarker development and implementation
- Bridge the biomarker discovery with their clinical application

BiC Partnership

Consortium of Baltic Sea Region (BSR)



**Hinc itur
ad astra**



AALBORG UNIVERSITY HOSPITAL
Denmark



ScanBalt BioRegion
HEALTH AND LIFE SCIENCES

BioCon Valley[®]



Turun yliopisto
University of Turku

SCTURKU**ENCE PARK**
Innovate to Accelerate



BIC

Deliveries for the project

Stakeholders map

Based on identification of stakeholders challenges and needs

Tools for Commercialisation of Biomarkers

- Biomarker Development Tool
- Screening and Selection Guide
- Framework for Technology Translation into Clinical Setting
- Business Model Templates

BiC Community: The BSR Biomarker Ecosystem

Build up a transnational collaborative ecosystem:

- **Connect competencies**
- **Support collaborations**
 - Between research centers
 - With industry and key opinion leaders
- **Facilitate flow of information on specific biomarkers**

by:

- **Matchmaking events**
- **Workshops**
- **A common technology platform**

Further information and contact

Valerie Daussin Laurent

Business Developer

Aalborg University Hospital, Denmark

vk@rn.dk



EUROPEAN UNION

EUROPEAN
REGIONAL
DEVELOPMENT
FUND

BIC