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 assessment
  - diagnostics
  - treatment effects
  - treatment adjustment

- **Beneficiaries:**
  - Patients
  - Clinicians
  - Researchers
  - Pharma industry

**Personalized medicine**
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)
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

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