

Agenda

- What is Biolnnovation Institute (BII)
- Women's Health Initiative
- Challenges and opportunities
- Building a women's health ecosystem
- How to accelerate women's health


## WHAT is BII ?




## Vision

Our vision is to support world-class life science innovation that drives development of new solutions by early life science start-ups for the benefit of people and society.
Mission
Our mission is to incubate world-class life science and catalyze its commercialization of new solutions through start-ups by using our knowledge, network, funding and infrastructure.

## We select promising start-ups and projects, and support them by offering four essentials for success



## Funding

Projects get access to funding via our programs to help them accelerate their business and scientific development.


Knowledge
Projects gets an anchor responsible for supporting their business development with knowledge, tools, and mentorship.


Network
BII offers access to a huge network. Our collaboration partners take a starting point in the start-up's journey and needs.


Infrastructure
Access to our community and infrastructure which includes office space, laboratory facilities and technical platforms.

## Overview of Bll's programs

## Bio Studio

Provides funding for leading academics to mature innovative translational research. By building a strong commercial case, the goal is to create a spin-out by the end of the program.

The PI will remain at the host institution. BII will help establish a project team operating at BII.


## Venture Lab

Acceleration program designed to help newly established start-ups in the early phases of development.

During the program BII provides start-ups with tools for scientific, business and team development.


## Venture House

Selected Venture Lab companies can enter the follow-on program Venture House for further development support.


Up to
EUR 3M


Up to 3 years


EUR 0.5M


12 months

Up to EUR 1.3M



## Women's Health

## Initiative

In 2022, BII launched the Women's Health Initiative - Partially supported by a grant awarded to BII by the Bill \& Melinda Gates Foundation.

The initiative aims to address high unmet medical needs within women's health.

## Support Areas in women's health and gender medicine



## Reproductive <br> health

- Gynecological conditions (e.g. PCOS, uterine fibroids, adenomyosis, vaginal microbiome and vaginal dysbiosis, cervical cancer/HPV treatment, endometriosis)
- Menopause symptoms
- Maternal health
- Menstrual health
- Female and male nonhormonal contraception
- Female and male infertility


## Conditions that <br> affect females <br> and males <br> differently

Sex-specific solutions to conditions such as:

- Cardiovascular conditions
- CNS indications
- Autoimmune diseases
- Chronic pain
- Mental health and depressive disorders


## BII Women's Health Initiative

## Key goals

Create new start-ups by sourcing, funding and incubating new technologies and solutions for women's health.

Strengthen the European ecosystem through identifying and addressing the gaps and raising awareness of women's health.

## Ambition

Create one of the leading early-stage women's health innovation hubs in Europe with unique support programs and incubation capabilities.

## Why is this a priority area for BII ?

## Huge unmet medical need

## Lack of solutions, poor health outcomes, differential disease prevalence

- Endometriosis - a debilitating condition affecting $10 \%$ of women of reproductive age - have no cure and diagnosis takes on average 8 years ${ }^{1}$.
- Women are 50 \% more likely to receive a wrong initial heart diagnosis and more likely than men to die after heart emergency ${ }^{2}$.
- Women are 50-75\% more likely than men to have an adverse drug reaction ${ }^{3}$.
- In one-third of infertility cases, we treat the woman for a male problem. With invasive treatment ${ }^{4}$.
- Despite reporting more severe levels and duration of pain, women are less likely to be treated for pain than men; symptoms are at times described as "emotional" or "psychosomatic".

[^0]
## Caused by...

## Lack of basic research funding

Approximately $1 \%$ of healthcare research and innovation is invested in female-specific conditions beyond oncology.

## US biopharma research funding, $\mathbf{2 0 2 0}^{\mathbf{1}}$

All other female specific

conditions-1\% $\quad$| Women's |
| :--- |
| cancers $-4 \%$ |

cancers - 4\%


## Caused by...

## Data and knowledge gaps

For years, women have been underrepresented in clinical trials.

## Between 1977 and 1993, women* were excluded from participation in clinical trials in the US.

## Caused by...

## Limited private financing

We have not seen many private investments by venture capital in the space of women's health.

Women's health as an investment case is still in its early days.
\# of investments into women's health companies in Europe (2004-2020) ${ }^{1}$


## Supporting innovation - from academia to patients



- Bill \& Melinda Gates Foundation
- Ferring
$3 \left\lvert\, \begin{aligned} & \text { Biolnnovation }\end{aligned}\right.$
Institute
- Investor network
- BII Women's Health Innovation Panel
- General network building

Basic research
Translational and pre-commercial phase
Patients

## Things we can do to accelerate new solutions to the benefit of women's health:

1) Increase research funding directed at women's health / gender medicine
2) Provide proactive innovation support in university settings and for the translational phase
3) Raise awareness of the opportunities with investors
4) Put women's health on the political agenda

## Thank you!

## Read more about Women's Health Initiative


bii.dk/community/womenshealth/

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[^0]:    1) WHO and https://www.endometriosis-uk.org/endometriosis-facts-and-figures
    2) https://www.escardio.org/The-ESC/Advocacy/women-and-cardiovascular-disease leading cause of death in women worldwide and Women's Health Access Matters (WHAM)
    3) Rademaker M. Do women have more adverse drug reactions?. Am J Clin Dermatol. 2001;2(6):349-351
    4) Turner KA et al. Male Infertility is a Women's Health Issue-Research and Clinical Evaluation of Male Infertility Is Needed. Cells. 2020 Apr 16;9(4):990https://www.washingtonpost.com/wellness/interactive/2022/women-pain-gender-bias-doctors/
