

Dear Friends and Colleagues,

We have just crossed the first quarter into 2021 and are happy to share with you what's in and around CIH this month.



1. INNOVATION AT A GLANCE

This month, we would like to feature one of the selected companies **Microgenesis** from the first batch of Innovators Commercialisation Program (ICP), led by Asia Research & Innovation Alliance (ARIA), in collaboration with CIH.

Microgenesis is developing In Vitro microfluidic Fertilisation IVmF novel microfluidic-biomimicking high-quality sperm selection for reproductive biology. Microgenesis is planning to start expanded clinical trials and regulatory submission for European Union, Australia and China.

Microgenesis is seeking to raise Series A funding and looking for potential investors for the company.

If you are interested to connect with **Microgenesis** for further information, please reach out to my team CIH@nuhs.edu.sg

The screenshot shows a Zoom meeting interface with a presentation slide titled "OUR TECHNOLOGY". The slide is divided into three columns, each with an image and text:

- Column 1:** Image of "Inbuilt Micro Channels" (a 3D rendering of a microfluidic device). Text: "Through our discoveries in sperm motion, our IVmF device uses micro channels to provide sperm guidance that simulates the cervical, uterine, and fallopian tube pathways that sperm must navigate to naturally fertilize an egg, taking the best filter that mother nature has to offer and effectively replacing the harmful shear forces of conventional sperm selection with a gentle but effective solution."
- Column 2:** Image of laboratory glassware (beakers and flasks) containing colored liquids. Text: "Without the use of damaging chemicals and DQC, the IVmF device is capable of selecting the most motile and vital sperm cells with improved DNA fragmentation index (DFI) and high DNA stainability (HDS) that can be used in all ART procedures including ICSI, IUI and IVF."
- Column 3:** Image showing "Before IVmF" and "After IVmF" sperm selection results (microscopic views of sperm). Text: "Our IVmF device is able to purify raw semen and select sperm cells with high DNA integrity in as little as 15 minutes. With reduced human interactions, the IVmF device can be trusted to provide a highly standardised selection of high quality sperm with no subjectivity."

The Zoom interface at the top shows several participants in a grid view. The bottom of the screen shows the Windows taskbar with various application icons.

2. CLINICAL TRIALS

We're excited to kick off the next clinical trial in April, where CIH is working with the inventor and clinicians to test an e-stethoscope on patients.

With technology, remote monitoring is brought to greater heights, while we kick off clinical trials to ensure data collected are correctly processed, clinically validated and most importantly safe for patients.

CIH helps clinicians and innovators to navigate and manage this clinical trial process, potentially reducing time to market.



Back row from left: Mr Yang Zijie, PhD Student, NUS Faculty of Engineering and Collaborator, Health Innovation Program, Smart Patient System

Dr Lim Yinghao, Associate Consultant, Cardiac, NUH and Principal Investigator, Heart Clinical Trial, Health Innovation Program, Smart Patient System

Dr Chan Hiang Ping, Consultant, Respiratory and Critical Care Medicine, NUH and Principal Investigator, Lung Clinical Trial, Health Innovation Program, Smart Patient System

Front row from left: June Leam, Clinical Research Coordinator, NUHS

Dr Benjamin C.K. Tee, President's Assistant Professor, NUS Faculty of Engineering and Collaborator, Health Innovation Program, Smart Patient System

Xie Qi, Clinical Research Coordinator, NUHS

3. NEW PARTNERSHIP

Centre for Innovation in Healthcare (CIH) is pleased to be featured by Global Partners Consulting (GPC) Group on 26 March 2021. GPC Group provides business expansion advisory services, supporting companies with global business expansion to the ASEAN markets and beyond.

You can read the full article here:

<https://www.gpc-gr.com/articles/>

4. UPCOMING EVENTS

Together with our partners, we curated these events. Don't miss the opportunity to engage, dialogue and participate.

Click on individual link for more details

MAY	5 May: Webinar - Innovation and Digitalization of the Healthcare sector in South East Asia
	6 May: [IPI] UK-Singapore Innovation Partnership Series on Industry 4.0/AI/IoT
	6 – 7 May: [IPI] Open Innovation Workshop
	17 – 21 May: [SSHSPH] SHORT MODULE: Modelling Techniques in Health Technology Assessment
	27 May: [SGInnovate] Biotech Start-up 101: IP Management

Calendars are collated to be best of our knowledge. Events and dates may be subject to changes by the event organizers.

As always, continue to connect with us!



Have a great weekend.

Professor Khek-Yu HO

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