



University Research Facility in
Behavioral and Systems Neuroscience
神經科學中心實驗室



A New Chapter of the UBSN

In this issue, we are grateful to share with you our four "News" -

New Directorship

New Laboratories

New Website

New Equipment Booking System

New Directorship

The PolyU has announced the appointment of Prof. Marco Pang (Professor of Department of Rehabilitation Sciences) as Director of UBSN, and Prof. Andrew Ping Li (Dean of Faculty of Humanities, Chair Professor of Neurolinguistics and Bilingual Studies) as Associate Director of UBSN.

Prof. Pang and Prof. Li commenced their new roles on 18 March 2021.

Director's message

It is my honor to take up the directorship of University Research Facility in Behavioral and Systems Neuroscience (UBSN).

We are very pleased to inform our current and upcoming users of UBSN that our relocation to a new premise in Block Z has been completed. Prior to the relocation, our equipment was placed in different "satellite" labs located around campus. Now, users can make use of our facility in a centralized location which is much more convenient.

There are three new UBSN laboratories in Block Z. The Neurophysiology and Brain Stimulation Laboratory (ZB217) houses two sophisticated electromagnetic and acoustic double-shielding chambers designed for conducting high density electroencephalography (EEG) experiments. The lab also houses one Near Infra-red Spectroscopy (NIRS) for mapping brain functions using optical approach, and one Transcranial Magnetic Stimulator with Neuronavigation (TMS, please read our previous newsletter for more information) for conducting high precision brain stimulation experiments. The Magnetic Resonance Imaging Laboratory (ZB216) houses the powerful 3T MRI scanner for acquiring high quality three dimensional images of the human brain and even whole body. The Behavioral Neuroscience Laboratory (ZB218) houses equipment such as the Eye-tracker and Motion Capturing System for conducting behavioral neuroscience research.

UBSN is fully committed to tackling important research questions related to neuroscience. We hope that our facility can nurture talents among our students and researchers.



Prof. Marco Pang
Director

Associate Director's message

We are very pleased to see UBSN enter a new era! Our moving into the new space, the installation and operation of the new MRI, and the new leadership and team members make UBSN a great place to do world-class research. Given the wonderful resources and environment, we encourage colleagues to come to visit UBSN, connect with PolyU researchers in neuroscience, and contact UBSN staff for your research projects. Building a dynamic and productive community with world-class infrastructure is UBSN's top priority now and in the future.



Prof. Andrew Ping Li
Associate Director



MRI Scanner Room

ZB216 Magnetic Resonance Imaging (MRI) Laboratory



MRI Control Room

New Laboratories

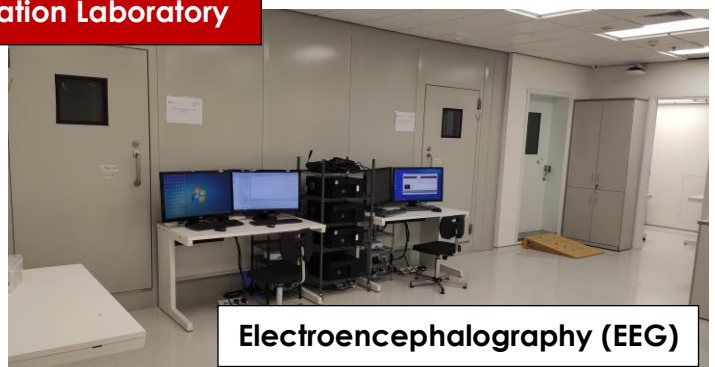
We have relocated our laboratories from ST 1/F to LG2, Block Z. For further details, please visit the UBSN website

Transcranial Magnetic Stimulation (TMS)



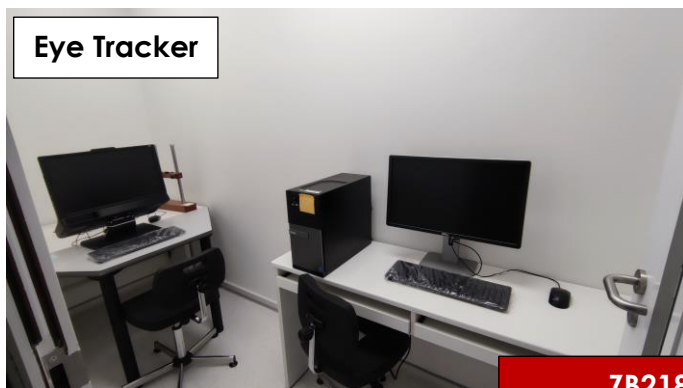
Functional Near Infra-red Spectroscopy (fNIRS)

ZB217 Neurophysiology and Brain Stimulation Laboratory

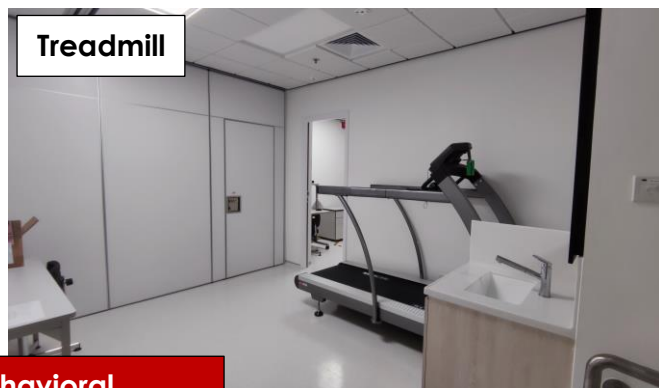


Electroencephalography (EEG)

Eye Tracker



Treadmill



ZB218 Behavioral Neuroscience Laboratory

VICON Motion Capture



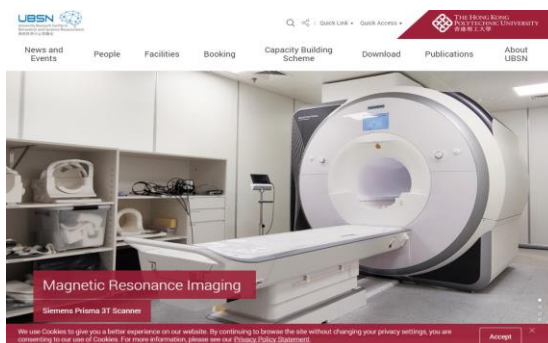
Rotational Chair



New Website

We have moved our old website (ubsn.polyu.edu.hk) to the new one (www.polyu.edu.hk/ubsn). The new website provides the following information:

- News and events
- Our staff
- Equipment information and specifications
- Capacity building scheme
- Download area
- UBSN newsletters and users' publications
- A hyperlink to the new booking system (the URFMS)



New Equipment Booking System

The **U**niversity **R**esearch **F**acility **M**anagement **S**ystem (URFMS) is a centralized booking system for the University Research Facilities jointly developed by ITS and RO. UBSN is the first URF implementing the URFMS and it has been launched on **10 June 2021**. The URFMS aims to streamline the booking of equipment in University Research Facilities, enhance the user experiences of researchers, and increase the efficiency of administration.

To make a reservation of our equipment in the URFMS, users are required to have a valid payment source. For further details, please visit the UBSN website.

Interested in using our equipment? Please contact us:

Website: <https://www.polyu.edu.hk/ubsn>

E-mail: ubsn.enquiry@polyu.edu.hk