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University Research Facility in
Behavioral and Systems Neuroscience
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研究及創新事務處

University Research Facility in
Behavioral and Systems Neuroscience

UBSN Neuroscience Conference & Workshops 2025

**PROGRAMME
AT-A-GLANCE**
7 & 8 JUNE 2025

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About UBSN

- ◆ The University Research Facility in Behavioral and Systems Neuroscience (UBSN) of The Hong Kong Polytechnic University was established in 2018 and is designed to be an interdisciplinary technological platform supporting the research endeavors of researchers not only from The Hong Kong Polytechnic University, but also those from other higher education institutions in Hong Kong. It also serves as a key training hub for all who are pursuing scientific enquiry in neuroscience and related disciplines.

The UBSN is equipped with state-of-the-art equipment that enables researchers to conduct cutting edge and impactful research. The equipment is classified into 4 categories: Behavioral Neuroscience, Brain Stimulation, Neurophysiology and Neuroimaging. Transcranial magnetic stimulation, near-infrared spectroscopy, transcranial ultrasound Doppler, electroencephalogram (EEG), and the optical topography system are just some examples of equipment housed in UBSN. Of course, the highlight is our 3T Magnetic Resonance Imaging (MRI) facility and Mock MR Scanner.

With our seven strategic research areas, namely, Brain Imaging and Artificial Intelligence/Big Data, Healthy Aging, Mental Health, Neurorehabilitation and Neural Repair, Human Development, Neurolinguistics, and Cognitive Neuroscience of Language and Culture, we are fully committed to tackling important research questions for the benefit of mankind, and nurturing talents among our students and young researchers.

 UBSN Homepage



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University Research Facility in Behavioral and Systems Neuroscience (UBSN)



Transcranial Magnetic Stimulation System (TMS)



Eye Tracker Tobii Pro Glasses 3



Electroencephalography (EEG)



Microelectrode Array (MEA) System for Brain Slice



Upright Confocal Microscope



Mock MR Scanner



3 Tesla MRI Scanner

UBSN Neuroscience Conference and Workshops 2025

◊ 7th June, 2025

Time	Description	Venue
09:30 - 10:00	● Registration	Outside Z209
10:00 - 10:20	▲ Opening ceremony	Z209
10:20 - 10:30	📷 Group photo	Z209
10:30 - 11:30	🗣️ Keynote Seminar: Prof. SOEKADAR	Z209
11:30 - 12:00	☕ Coffee break and Poster viewing	Outside Z209 Classroom Z208, 210
12:00 - 12:30	🗣️ Plenary Seminar 1: Dr. ZHANG 🗣️ Plenary Seminar 2: Prof. HSU	Z209 Z211
12:30 - 13:30	🍴 Lunch	
13:30 - 14:00	🚩 Lab tour 1	ZB216 - 218
14:00 - 15:00	🗣️ Keynote Seminar: Prof. HASSON	Z209
15:00 - 15:30	☕ Coffee break and Poster viewing	Outside Z209 Classroom Z208, 210
15:30 - 16:30	🗣️ Poster presentation 🚩 Lab tour 2	Classroom Z210 ZB216 - 218
16:30 - 17:00	🗣️ Plenary Seminar 3: Prof. KRANZ 🗣️ Plenary Seminar 4: Dr. MAK	Z209 Z211
17:00 - 17:45	★ Best Paper Award ceremony ★ Best Poster Award ceremony ★ Souvenirs to sponsors	Z209
17:45 - 18:00	▲ Closing Ceremony	Z209

◊ 8th June, 2025

Time	Description	Venue
09:30 - 10:00	● Registration	Outside Z209
10:00 - 13:00	⚙️ Workshop: Prof. SOEKADAR ☕ Coffee break: 11:30 - 12:00	Z209 Outside Z209
13:00 - 14:00	🍴 Lunch	
14:00 - 17:00	⚙️ Workshop: Prof. HASSON ☕ Coffee break: 15:30 - 16:00	Z209 Outside Z209
17:00 - 17:30	★ Collect certificate	Outside Z209

UBSN Souvenir and Stamp Collection

Collection point:
Reception
(available while stocks last)

UBSN Neuroscience Conference • 7th June, 2025

1. Registration



- Non-woven bag
- Bookmark
- Face mask
- Magnetic lapel pin
- Lens cloth

2. After Seminar by Prof. SOEKADAR



- Fan with stand

3. After Seminar by Dr. ZHANG/ Prof. HSU



- Mouse arm rest

4. After Seminar by Prof. HASSON



- USB drive

5. Before Seminar by Prof. KRANZ/ Dr. MAK



- Stress ball

6. After Closing Ceremony



- Umbrella
- Travel adaptor

UBSN Neuroscience Workshops • 8th June, 2025

1. Registration



- Non-woven Bag
- Magnetic lapel pin
- Mug coaster

2. End of day



- Mug set with box



Prof. Surjo R. SOEKADAR

Einstein Professor of Clinical Neurotechnology, Head of Research Group Clinical Neurotechnology (Clinical Neurotechnology Lab, Charité - Universitätsmedizin Berlin & Applied Neurotechnology Lab, University of Tübingen, Germany)

Biography:

Surjo R. Soekadar, MD, is Einstein Professor of Clinical Neurotechnology and leads the Center of Neuromodulation at the Charité - Universitätsmedizin Berlin. From 2009 - 2011, he was fellow at the Human Cortical Physiology and Stroke Neurorehabilitation Section (HCPS) at the National Institutes of Health (NIH), USA. After his return to Germany, he became head of the Applied Neurotechnology Lab at the University of Tübingen, where he also served as a senior consultant in the Department of Psychiatry and Psychotherapy. His research interests include cortical plasticity in the context of brain-computer interface (BCI) applications, non-invasive neuromodulation and neural mechanisms of learning and memory. He and his team demonstrated for the first time that patients with high cervical spinal cord injury and complete finger paralysis can eat and drink independently using a non-invasive brain/neural-controlled hand exoskeleton in an outside restaurant. Dr. Soekadar received various prizes such as the NIH-DFG Research Career Transition Award (2009), the NIH Fellows' Award for Research Excellence (2011), the international BCI Research Award 2012, and the Biomag 2014 and NARSAD 2017 Young Investigator Awards. Besides an ERC Starting Grant to develop the next-generation brain/neural-machine interfaces for restoration of brain functions, he also received an ERC Proof-of-Concept and Consolidator Grant dealing with closed-loop neuromodulation and the development of a bidirectional quantum-BCI.

Seminar title:

From Restoring Movement to Mental Health: The Next Frontier of Brain-Computer Interfaces

Abstract:

Brain-computer interfaces (BCIs) have demonstrated remarkable success in restoring movement by translating neural activity into control signals for external devices. These advances provide a foundation for extending BCIs beyond the motor domain, toward the treatment of neuropsychiatric disorders. More than one billion people worldwide suffer from conditions such as depression, anxiety, obsessive-compulsive disorder (OCD), addiction, and dementia, yet effective, side effect-free treatments remain scarce. A major challenge lies in linking neuroimaging findings on cortical and subcortical metabolism to the dynamic oscillatory processes that govern brain function. Recent developments in neurotechnology open new possibilities for precise, non-invasive neuromodulation. Brain state-dependent magnetic stimulation could enable selective modulation of deep brain structures, but current methods are limited by stimulation artifacts, insufficient focality, and inadequate temporal resolution. By combining quantum sensor technology with temporally precise neuromodulation, these barriers can be overcome. However, such neurotechnological tools must be embedded within a holistic treatment concept that integrates complementary approaches, such as digital health applications and psychosocial interventions. This aligns with the broader framework of psychotechnology, which emphasizes the interplay of neurotechnology, digital therapeutics, and contextual factors in shaping mental health outcomes. This lecture will present the state of the art in BCIs and non-invasive neuromodulation, illustrating how the principles of motor BCIs can be leveraged for neuropsychiatric applications. Future directions include real-time brain state assessment and closed-loop stimulation strategies, integrated into a broader psychotechnology ecosystem, to transform treatment paradigms for mental health disorders.

Workshop title:

Exploring the Practical Applications of Brain-Computer Interfaces in Neurorehabilitation

This workshop provides an in-depth exploration of BCIs in the context of neurorehabilitation. Focused on the practical aspects, the session will dive into the methodologies behind real-time neural decoding, adaptive neurostimulation, and their integration into rehabilitation settings. Participants will learn about the tools and technologies used for data collection and analysis, with a particular emphasis on the beamBCI software framework. The workshop will also cover the challenges of translating BCI research into clinical applications, addressing issues such as signal reliability, system usability, and patient-specific adaptation. Additionally, attendees will engage in discussions about current trends and obstacles in BCI research, including data variability, signal noise, and the integration of neurotechnology into personalized treatments.



Prof. Uri HASSON

Professor (Department of Psychology and Princeton Neuroscience Institute, Princeton University, USA)

Biography:

Prof. Uri Hasson is a Professor in the Department of Psychology and the Neuroscience Institute at Princeton University, where he runs The Hasson Lab. He obtained his bachelors in Philosophy and Cognitive Science (1994), and his Master in Cognitive Science (1998) at the Hebrew University of Jerusalem. In 2004, Hasson completed his doctoral degree in the Neurobiology Department at the Weizmann Institute of Science in Israel under the supervision of Dr. Rafael Malach. He continued his post-doctoral training in the labs of Dr. David Heeger and Dr. Nava Rubin in the Center for Neural Science at New York University. In 2008, Hasson joined the faculty at Princeton University, where his laboratory studies the brain responses to natural, real-life events. In particular, he is interested in understanding how communication through storytelling can affect human cognition.

Seminar title:

Deep Language Models as a Cognitive Model for Natural Language Processing in the Human Brain

Abstract:

Naturalistic experimental paradigms in cognitive neuroscience arose from a pressure to test, in real-world contexts, the validity of models we derive from highly controlled laboratory experiments. In many cases, however, such efforts led to the realization that models (i.e., explanatory principles) developed under particular experimental manipulations fail to capture many aspects of reality (variance) in the real world. Recent advances in artificial neural networks provide an alternative computational framework for modeling cognition in natural contexts. In this talk, I will ask whether the human brain's underlying computations are similar or different from the underlying computations in deep neural networks, focusing on the underlying neural process that supports natural language processing in adults and language development in children. I will provide evidence for some shared computational principles between deep language models and the neural code for natural language processing in the human brain. This indicates that, to some extent, the brain relies on overparameterized optimization methods to comprehend and produce language. At the same time, I will present evidence that the brain differs from deep language models as speakers try to convey new ideas and thoughts. Finally, I will discuss our ongoing attempt to use deep acoustic-to-speech-to-language models to model language acquisition in children.

Workshop title:

Deep Learning a New Framework for Modeling the Human Brain and Mind

This workshop will explore methods for utilizing deep learning to study human cognition. Specifically, we will emphasize the need to develop new cognitively inspired Agentic AI models and assess their alignment with neural processes as they manifest in the real world.



Dr. Jack Jiaqi ZHANG

Research Assistant Professor
Department of Rehabilitation Sciences
The Hong Kong Polytechnic University

Biography:

Dr Jack Zhang is a Research Assistant Professor at the Department of Rehabilitation Sciences, PolyU. His research interests are the utility of transcranial magnetic stimulation (TMS) along with multimodal neurophysiological and neuroimaging techniques to reveal the recovery mechanism following various neurological and psychiatric conditions, and to optimize rehabilitation outcomes. He is also enthusiastic about the experimental application of innovative neurotechnology, such as closed-loop brain-computer interfaces, in translational rehabilitation research. Dr Zhang has published several articles in prestigious academic journals, such as Stroke, Brain Stimulation, Journal of Neurology, and Journal of NeuroEngineering and Rehabilitation.

Seminar title:

Transcranial Magnetic Stimulation in Poststroke Rehabilitation

Abstract:

Transcranial magnetic stimulation (TMS), a non-invasive brain stimulation modality, has been extensively used in neurorehabilitation research. In this talk, Dr. Zhang will discuss his previous work on the use of TMS in poststroke rehabilitation research, including: (1) Interventional studies: Using theta burst magnetic stimulation to boost motor recovery outcomes in patients after stroke; (2) Neurophysiological studies: Utilizing EEG and concurrent TMS-EEG outcomes to evaluate the brain's responsiveness in healthy adults and poststroke patients. With the facility support of the UBSN Human Neurophysiology Laboratory, his research aims to further the understanding of the mechanisms underlying the effects of TMS on brain plasticity and motor recovery in the context of poststroke rehabilitation.



Prof. Chun Liang HSU

Kuok Group Young Scholar, Assistant Professor, Presidential Young Scholar (Department of Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong, China)

Biography:

Prof. Chun Liang Hsu obtained his PhD in Rehabilitation Sciences at the University of British Columbia. Prof. Hsu's expertise spans from administering tools for mobility related clinical assessments, neuropsychological batteries to performing advanced neuroimaging analyses. He focuses on examining underlying neural correlates for both the cognitive and sensorimotor systems through the use of MRI. Specifically, his research interests involve: 1) understanding the underlying neural correlates of functional impairments as well as the interplay between cognitive function and mobility in aging clinical populations; 2) establishing neural basis of resilience and reserve capacity that mitigate the negative impacts of aging- or disease-related brain pathologies; and 3) identifying and evaluating CNS-related interventions via randomized controlled trials to promote cognitive function, mobility, resilience and reserve in aging clinical populations.

As a part of his training, Prof. Hsu was selected as one of the only 30 trainees in the world to be trained in the UCLA Advanced Neuroimaging Training Program at the prestigious UCLA Semel Institute for Neuroscience. Currently, he is a lead member on the expert neuroimaging team of the Canadian Longitudinal Study on Aging's Healthy Brain, Healthy Aging Initiative.

As recipient of endowment from the internationally renowned Kuok Group, Prof. Hsu is recognized by his current work and future prospects as an independent researcher in aging research. He was appointed with the prestigious title of Endowed Young Scholar in Ageing and Neuroimaging in 2024, in addition to his conferment of the title of Presidential Young Scholar in 2022. The support he received from the Kuok Group will enable him to continue to contribute and expand the field of aging and aging neuroscience.

Seminar title:

Neural Correlates of Cognitive and Physical Resilience

Abstract:

Despite experimental and clinical studies demonstrated that exercise stimulates the release of myokines and metabolites from skeletal muscles, it is not clear whether the type of exercise training matters for optimal brain health. Precision treatment implementing tailored intervention has gained considerable recognition and interest in the recent years; however, to date, for whom, with what modalities, and by what mechanisms exercise enhances brain health remain elusive. It is probable that variability in treatment response may stem from differences in intrinsic reserve capacity exhibited by the individual. Two main types of exercise training are aerobic training (AT) and resistance training (RT); each has its own distinct physiology and benefits. Evidence suggests that aerobic exercise specifically improves executive functions and promotes neural efficiency, whereas resistance training elevates structural brain integrity while mitigating gray and white matter atrophy. Given that RT specifically targets the muscle, it may be more beneficial in enhancing muscle-brain crosstalk. No study among older adults has directly compared AT, RT, and their combined effects. Dr. Hsu will share findings from a 6-month, 2x2 factorial trial of exercise (i.e., AT, RT, AT+RT, and active control) on clinical functional outcomes as well as neural architecture of the brain as measured by resting state functional MRI to examine physical reserve - a novel construct of resilience. These results will elucidate the complex relationships between exercise, behavioural outcome, and neural networks of resilience.



Prof. Georg KRANZ

Associate Professor, Presidential Young Scholar (Department of Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong, China)

Biography:

Prof. Georg Kranz is an Austrian neuroscientist, currently appointed as an Associate Professor at the Department of Rehabilitation Sciences at The Hong Kong Polytechnic University. Prof. Kranz and his team focus on studying the utility of non-invasive brain stimulation therapies for neuropsychiatric disorders. He has published over 120 papers in journals such as The Lancet Psychiatry, PNAS, JAMA Psychiatry and others.

Seminar title:

Modulating the Brain with Electric Fields and Sound - The Future of Interventional Psychiatry?

Abstract:

The simultaneous application of repetitive transcranial magnetic stimulation (rTMS) and neuroimaging holds promise to optimize rTMS treatment for depression and develop prognostic markers for treatment response and disease prognosis. In the first part of his talk, Dr. Georg Kranz will present recent research utilizing concurrent rTMS with functional near-infrared spectroscopy (fNIRS), a cost-efficient and user-friendly neuroimaging modality that captures the neural effects of rTMS in real time, as fNIRS measurements are not subject to electromagnetic interference produced by rTMS. In the second part of his talk, Dr. Kranz will introduce randomised controlled trials utilizing transcranial pulse stimulation, a new and promising stimulation treatment for depression that uses repetitive shockwaves to stimulate the human brain.



Dr. Calvin MAK

Deputy Chief of Service & Consultant Neurosurgeon, Chairman, Innovation Committee and Smart Hospital Management Committee, Kowloon Central Cluster (Queen Elizabeth Hospital, Hong Kong, China)

Biography:

Dr. Calvin Mak is a consultant neurosurgeon at Queen Elizabeth Hospital, Hong Kong and is the Clinical Associate Professor (Honorary) of the Department of Surgery at the Chinese University of Hong Kong. He graduated from the University of Hong Kong, and obtained his fellowship of Fellow of Royal College of Surgeons of Edinburgh (Surgical Neurology).

His main clinical interest is both endoscopic and complex skull base surgery. Dr Mak performed the first endoscopic transorbital surgery for brain tumor in Hong Kong and has organized dissection courses on endoscopic transorbital surgery. He has been invited as faculty and instructor for various international skull base courses and meetings.

Apart from regular publications, he is co-editor of a multidisciplinary skull base textbook, author of book chapters, and serves as editor and reviewer for various journals and currently serves as Vice President of Hong Kong Neurosurgical Society, First Vice-President of Hong Kong Neuro-oncology Society, Executive Board member of the Asian Congress of Neurological Surgeons, delegates to Executive Committee of the Asian-Australasian Society of Neurological Surgeons (AASNS) and the World Federation of Neurosurgical Societies (WFNS), council member of the China Greater Bay Area Neurosurgical Alliance.

He is passionate about integrating innovative technology into medical services. He is the Cluster Coordinator of Information Technology and Information Systems of Kowloon Central Cluster (KCC), chair of the KCC Innovation Research Committee and KCC Smart Hospital Management Committee. His team developed the first Hospital Command Centre in Hong Kong, which helped the hospitals combat the COVID-19 crisis and pioneered the adoption of 5G technology in clinical application. He also conducted research on artificial intelligence applications in brain imaging, clinical prediction, surgical robots and LLM application in healthcare.

Dr. Calvin Mak was awarded as the Ten Outstanding Young Persons in Hong Kong in 2022 and received Outstanding Team Awards (Team Leader) and Young Achiever Award of the Hospital Authority. He currently also serves on various statutory boards and advisory committees for the HKSAR Government.

Seminar title:

Application of AI in Neurosurgery in a Neuroscience Centre: Present and Future

Abstract:

Artificial intelligence (AI) is revolutionizing neurosurgical practice, enhancing precision, patient outcomes, and efficiency. This lecture highlights transformative AI advancements, starting with large language models (LLMs) and their role in clinical documentation and decision-making. Neurosurgical applications include AI-driven preoperative planning using multimodal imaging and CT Brain screening algorithms for rapid detection of pathologies (e.g., tumors, hemorrhages). Intraoperatively, AI refines neurosurgical procedures. Postoperatively, telemonitoring platforms integrate wearable sensors and AI to track chronic neurological conditions (e.g., Parkinson's fluctuations) and monitor recovery through serial CT analysis. Predictive models alert clinicians to complication risks (hematoma, infection) or fall risks, while chatbots streamline follow-up care. Expanding applications in neuroprosthetics and brain computer interface demonstrate AI's potential to decode neural signals for intuitive control of assistive devices. By merging AI with neurosurgery, clinicians can advance personalized care, reduce complications, and empower patients through intelligent, data-driven solutions. This preparing neuroscience centers for AI's transformative role in diagnosis, treatment, and patient-centered care.



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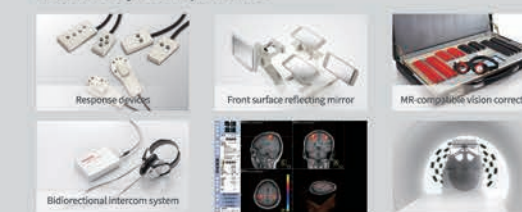
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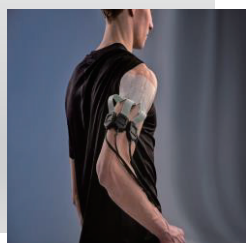


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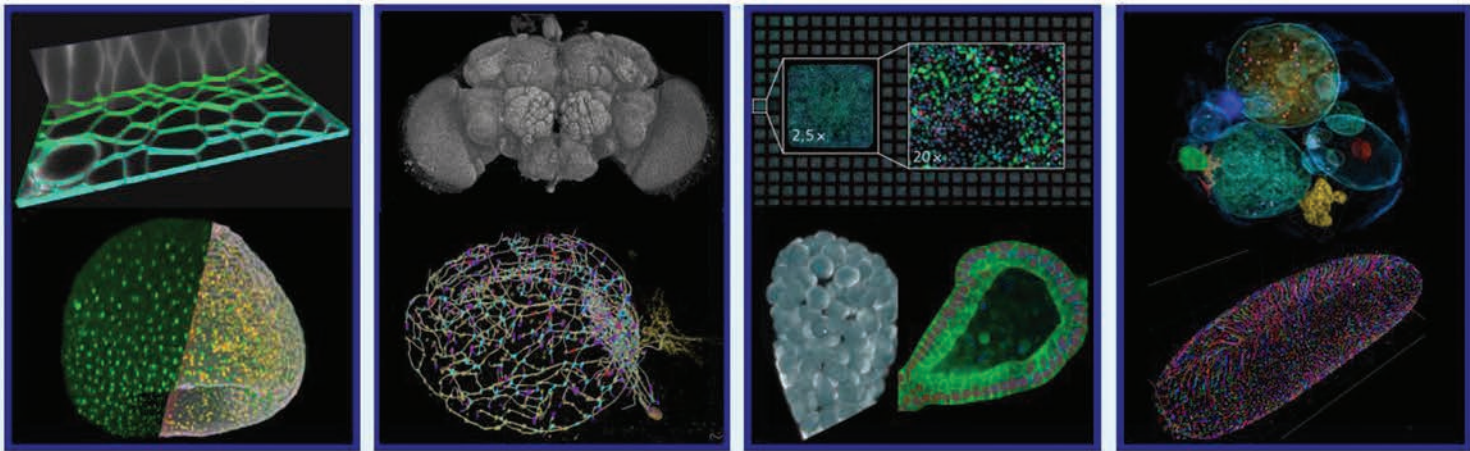
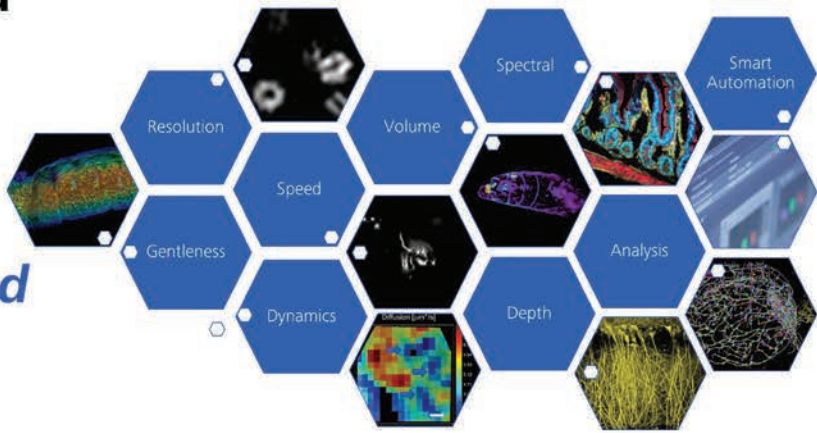


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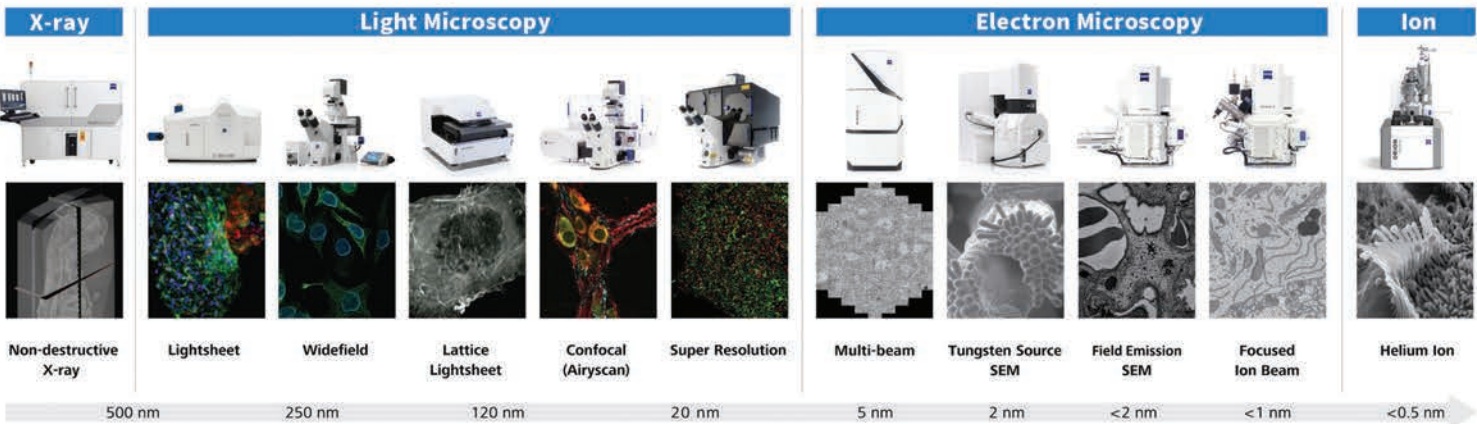
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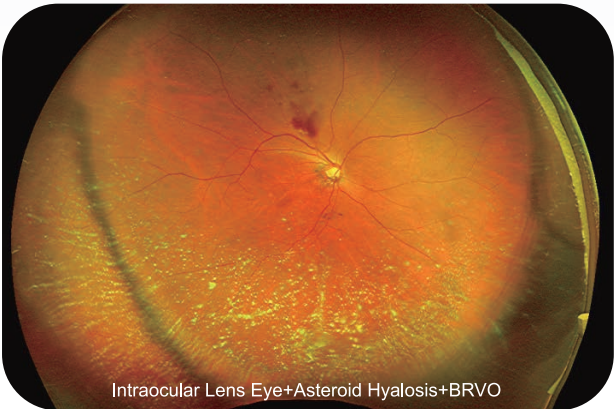
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