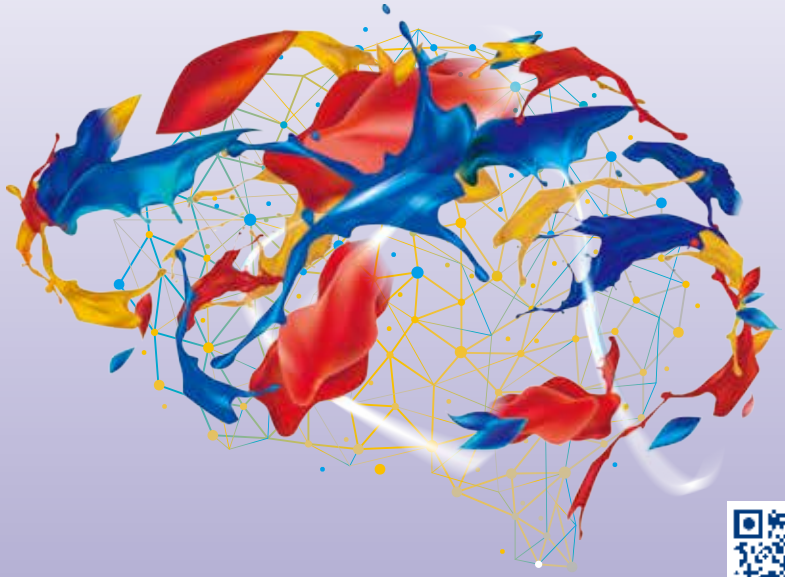
PROGRAM BOOK

BRAIN & BRAIN PET 2025

The 32nd International Symposium on Cerebral Blood Flow, Metabolism and Function
& The 17th International Conference on Quantification of Brain Function with PET

JUNE 1 – 4, 2025

COEX, SEOUL, REPUBLIC OF KOREA



Hosted by ISCBFM

Organized by KSCBFM Korean Society for Cerebral Blood Flow and Metabolism

The Korean Society of Nuclear Medicine
See the Invisible, Cure the Impossible

Sunday, June 1st

Time	GBR 101	102	103
07:30	Registration		
08:00			
08:30			
09:00	**BC 01** Fundamental Concepts and Latest Advances in Preclinical Animal Modelling	**BC 03** AI and Machine Learning in our Scientific Lives	**BP 01** Practical Applications of Tracer Kinetic Modeling in Brain PET: Challenges and Opportunities
09:30			
10:00			
10:30			
11:00			
11:30			
12:00			
12:30	Lunch Break		
13:00			
13:30			
14:00	**BC 02** Basics of the Full Brain Imaging Spectrum and Analysis	**BC 04** The Art of Applying: Academic Job Applications and Package Negotiations	**BP 02** Molecular Connectivity for Beginners
14:30			
15:00			
15:30			
16:00			
16:30			
17:00			
17:30	**Welcome Reception** (Auditorium Lobby, 3rd floor)		
18:00			
18:30			
19:00			
19:30			
20:00			
20:30			
21:00			

Monday, June 2nd

Time	Auditorium	101	102	103	104-105
07:30	Registration				
08:00	**LAA (Opening, Traditional Cultural Performance)**				
08:30					
09:00	**Presidential Lecture**				
09:30					
10:00	Coffee Break				**PS01**
10:30					
11:00		**BPSY01** Mapping the Dynamics of Neurotransmitter Action	**BS01** Pathology 1: Cerebral Ischemia 1	**SY01** Cerebral Small Vessel Disease Redefined: Innovative Insights Driving Future Translation	
11:30					
12:00					
12:30	**General Assembly**	Lunch Break			
13:00					
13:30		**BPS01** Technology, Methodology, Tracers & Targets	**BS02** Flash Presentation 1: Cerebrovascular Regulation in Health and Diseases	**SY02** Reprogramming the Brain after Stroke	
14:00					
14:30					
15:00	Coffee Break				**PS02**
15:30					
16:00		**BPS02** Flash Presentation: Brain PET	**BS03** Pathology 2: Neuroinflammation and Immune Responses 1	**SY03** Non-invasive Assessment of Cerebral Blood Flow and Oxygen Metabolism: Rationale and Latest Developments	
16:30					
17:00		**BS04** Pathology 3: Cerebral Hemorrhage and Neurovascular Dysfunction	**BS05** Physiology 1: Neurogliovascular Coupling	**SY 04** Acute Brain Injury: Impact of Spreading Depolarization and Metabolism	
17:30					
18:00					
18:30					
19:00					
19:30	**Early Career Networking** (B Work Seoul)				
20:00					
20:30					
21:00					

Tuesday, June 3rd

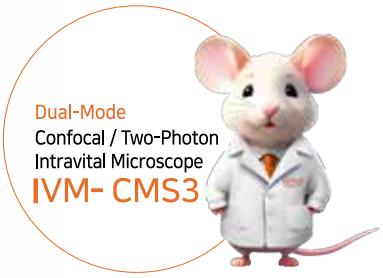
Time	101	102	103	104-105
07:30	Registration			
08:00	**BS06** Biomarkers	**BS07** Pathology 4: Neuroinflammation and Immune Responses 2	**SY 05** CIRCA Consortium on Circadian Effects in Focal Cerebral Ischemia	
08:30				
09:00				
09:30	Coffee Break			**PS03**
10:00				
10:30	**BPSY02** Advances in AI Technologies and Instruments for Brain PET Imaging	**BS08** Pathology 5: Cerebral Ischemia 2	**SY06** APOE Mechanisms Underlying Brain Health and Gut Microbiome Dysfunctions in AD	
11:00				
11:30				
12:00	Lunch Break			
12:30				
13:00	**BPS03** Neurodegeneration & Inflammation	**BS09** Flash Presentation 2: New Frontiers in Stroke Research	**SY07** Leveraging Glia to Improve CNS Repair	
13:30				
14:00				
14:30	Coffee Break			**PS04**
15:00				
15:30	**BS10** Physiology 2: Mechanisms of Cerebrovascular Reactivity	**JCBFM Symposium**	**SY08** Brain Clearance in CAA: From the Micro to the Macroscale	
16:00				
16:30				
17:00	**BS11** Techniques	**BS12** Physiology 3: Plasticity, Development, and Disease	**SY09** From BOLD to Beyond: Exploring Brain Function in Preclinical fMRI	
17:30				
18:00				
18:30				
19:00	**ISCBFM Banquet** (Sono Felice Convention)			
19:30				
20:00				
20:30				
21:00				

Wednesday, June 4th

Time	101	102	103	104-105
07:30	Registration			
08:00			**Niels Lassen Award**	
08:30				
09:00			**Plenary Lecture**	
09:30				
10:00	Coffee Break			**PS05**
10:30				
11:00	**BPSY03** Current Advances in Molecular Connectivity	**BS13** Physiology 4: Multi-Modal Approaches to Blood Flow & Metabolism	**SY10** Brain Cleanup by Microglia/ Macrophages in Cerebrovascular Diseases and Dementia as Key Mechanism for Repair and Recovery	
11:30				
12:00				
12:30	Lunch Break			
13:00				
13:30	**BPS04** Metabolism, Blood Flow & other Imaging	**BS14** Flash Presentation 3: Modulation of the Neuro-Immune-Vascular Unit in Health and Diseases	**SY11** Neurovascular Dysfunction in Vascular Dementia: an Update and Perspectives	
14:00				
14:30				
15:00	Coffee Break			**PS06**
15:30				
16:00	**BS15** Pathology 6: Alzheimer's Disease and Vascular Dementia	**BS16** Therapies	**SY12** Cerebral Blood Flow and Partial Pressure of Oxygen (pO2) in the brain: From Cortex to Hippocampus	
16:30				
17:00				
17:30			**Closing Ceremony**	
18:00				
18:30				
19:00				
19:30				
20:00				
20:30				
21:00				

BC Brain Courses
BP Brain PET Courses
LAA Lifetime Achievement Award
BS Brain Oral
BPS Brain PET Oral
PRL Presidential Lecture
SY Brain Symposium
BPSY Brain PET Symposium
NLA Niels Lassen Award
PS Poster Session
PL Plenary Lecture

The Most Compact Confocal & Two Photon Microscopy In the world



Dual-Mode
Confocal / Two-Photon
Intravital Microscope
IVM- CMS3

Key Feature

- Optimized system for in vivo cellular-level intravital imaging of a live animal model
- All-in-One packaging - Easy installation, Cost and Space saving, and High usability
- Hands-free maintenance of two-photon laser systems with minimal long-term costs
- Fully-integrated with
  - High-speed laser scanner for a real-time imaging (30-100 fps @ 512x512pixels)
  - Two-photon imaging (4 Ch.) with Compact 920nm fs-pulse laser module
  - Confocal imaging (4 Ch.) with Fiber-coupled 4-wavelength CW laser module

IVIM Technology also provides customized service solution...

Consulting for In Vivo Live Cell Imaging	**IVM Test Imaging** as preliminary xperiment	**Optimization** of IVM Imaging Experimental Plan
Creating Animal Models of Various Human Diseases	**IVM Imaging** of Various Organs in Animal Models	**Processing & Analysis** in Cellular Level for Reporting

IVIM Light up Your World

Omni Legend

ANSWERS AT THE SPEED OF SIGHT

As a nuclear medicine physician, you need a PET/CT platform that delivers state-of-the-art images without slowing down your team. Introducing Omni Legend. As the first system built on our all-digital platform, Omni Legend was designed to deliver exceptional images while also making vast improvements to the entire scanning process. The platform's all-new detector design and innovative deep learning technology* make it an industry-leading platform that will empower your team with exemplary diagnostic confidence now and in the future.

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MYUNG IN PHARM

The safest & first choice **Disgren®**

Triflusal 150mg, 300mg

Dual mechanism	• Platelet COX 1 inhibition • Increase of cAMP
Additional effect	• Lower hemorrhagic complication • NO increase / Neuroprotection

UNITED IMAGING

uNeuroEXPLORER

Next-Generation Dedicated Brain PET/CT

The uNeuroEXPLORER PET/CT imaging system provides novel capabilities for head and neck imaging research. The unique geometry of the system, 50 cm PET bore size, and 50 cm trans-axial field of view (FOV) with shoulder cut outs allow high image quality for the brain and carotid arteries in the neck. The split in the PET/CT gantry allows easy access to the patient for injections or blood draws.

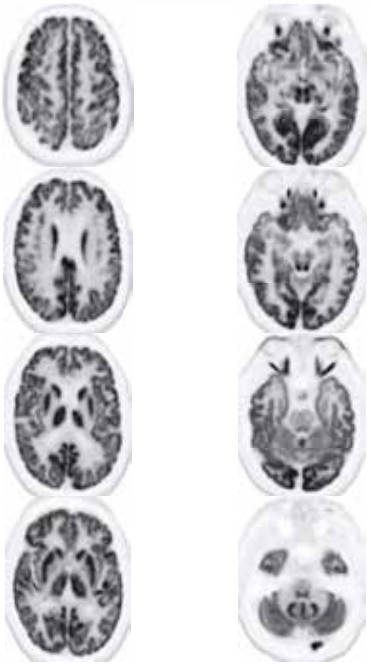
uNeuroEXPLORER Behind the Covers

PET System

- SiPM-based LYSO Crystal Pair Optical Sharing (CPOS) Detector
- 50 cm Axial Field of View (FOV)
- Effective Spatial Resolution of 1.4 mm
- Sensitivity of 46 kcps/MBq NEMA NU 2-2018

CT System

- 80-Slice CT with 50 kW Generator
- Digital and Integrated Z-Detector with Low Dose Capabilities
- Rotation Speed of 0.5 Seconds



5 mCi ^{18}F-FDG, 90 min p.i., 55 min acquisition, 0.4×0.4×0.6 mm^3,
Acquired under an IRB-approved protocol**
For research only.
Not submitted to or cleared by the FDA for clinical use.

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BRAIN & BRAIN PET 2025

The 32nd International Symposium on Cerebral Blood Flow, Metabolism and Function
& The 17th International Conference on Quantification of Brain Function with PET

C O N T E N T S

WELCOME MESSAGE

MESSAGE FROM THE PRESIDENT

Dear Friends and Colleagues,

It's with great joy and anticipation that I invite you to join us for Brain & Brain PET 2025, taking place from June 1–4 in the vibrant city of Seoul, Korea. This will be the first time our biennial meeting is held in Seoul, making this year's gathering particularly special.

The Brain & Brain PET conference has a proud tradition of bringing together researchers, clinicians, and trainees to share pioneering work in cerebral vascular neuroscience. This year's program builds on that legacy, offering exciting new insights into brain function, metabolism, and blood flow. It's in this collaborative spirit—through open exchange and shared curiosity—that we move our understanding forward, from neuronal and glial interactions to immune cell metabolism and cerebrovascular health.

Beyond the science, Seoul promises to be an unforgettable setting. It's a city where ancient palaces stand alongside sleek skyscrapers, and where traditional markets bustle just steps from state-of-the-art tech hubs. Whether you're savoring Korean cuisine, exploring centuries-old temples, or simply soaking in the city's rhythm, we hope you'll take time to enjoy everything this remarkable place has to offer.

With a rich scientific program and such an inspiring location, we're confident this year's meeting will be both meaningful and memorable for participants joining us from across the globe.

We truly look forward to welcoming you to Seoul for Brain & Brain PET 2025—and to sharing this special experience with you in person.

Warmest regards,

Sunghee Cho

Sunghee Cho
President, ISCBFM

MESSAGE FROM THE LOCAL HOST TEAM

Welcome to BRAIN & BRAIN PET 2025!

On behalf of the Local Organizing Committee, it is our great pleasure to warmly welcome you to the BRAIN & BRAIN PET 2025, the 32nd International Symposium on Cerebral Blood Flow, Metabolism and Function, held in conjunction with the 17th International Conference on Quantification of Brain Function with PET, taking place from June 1 to 4, 2025, at the COEX Convention & Exhibition Center in Seoul, Korea.

We are honored to host this prestigious gathering of neuroscientists, clinicians, and researchers from around the world. BRAIN & BRAIN PET 2025 continues the tradition of fostering dynamic scientific exchange by offering an insightful program that covers a wide spectrum of topics, including neurovascular health, the blood-brain barrier, cutting-edge brain imaging, and the latest developments in brain repair and cerebrovascular disorders.

We are especially delighted to open the symposium with a celebratory performance by Master Kim Duk-soo, a living legend of traditional Korean music. His powerful samulnori drumming will provide an unforgettable cultural experience and a vibrant start to the week. The venue, COEX, is located in the heart of Gangnam — one of Seoul's most dynamic districts — and offers a unique environment where the modern and the historic coexist.

We encourage you to take time, beyond the scientific sessions, to explore the richness of Korean culture, cuisine, and hospitality. Whether visiting historical sites, enjoying local food, or simply strolling through the city, we hope your stay in Seoul will be as memorable as the symposium itself.

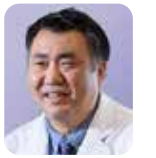
Whether you are a returning attendee or joining us for the first time, we are confident that BRAIN & BRAIN PET 2025 will offer meaningful learning, vibrant discussion, and lasting connections.

Once again, welcome — and enjoy both the science and the spirit of Korea.

BRAIN & BRAIN PET 2025 Chairs of the Local Organizing Committee

Yong Jeong, M.D., Ph.D.
Chair of
the Brain & Brain PET 2025
Local Organizing Committee

Yun Seon Song, PhD
Co-chairs of
the Brain & Brain PET 2025
Local Organizing Committee



Young Hoon Ryu, M.D., Ph.D.
Co-chairs of
the Brain & Brain PET 2025
Local Organizing Committee

MESSAGE FROM THE PROGRAM COMMITTEE CHAIRS

Dear Colleagues,

It is with great pleasure and enthusiasm that we welcome you to **BRAIN-Brain PET 2025**.

This year's meeting brings together over a thousand scientists from across the globe, united by a shared dedication to advancing our understanding of the central nervous system and related disorders. We are confident that this edition will stand out for its scientific excellence, rich discussions, and lasting collaborations.

The scientific program has been carefully curated through a highly competitive selection process, ensuring that the symposia, oral presentations, and poster sessions reflect the highest standards of innovation and quality. Special emphasis has been placed on supporting and showcasing the work of young researchers, who will contribute through posters, flash presentations, and oral sessions.

We hope that this congress will not only inspire fruitful scientific exchange but also foster new ideas and collaborations. Thank you for being part of this vibrant community—we look forward to an exciting and memorable meeting together.

With warm regards,

Hélène Girouard
Co-Chair,
Program Committee

Giuseppe Pignataro
Co-Chair,
Program Committee

Jae Seung Kim
Brain PET Co-Chair,
Program Committee

Andreas Hahn
Brain PET Co-Chair,
Program Committee

COMMITTEES

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Rebecca Hood	Member	Australia
Samuel Knauss	Member	Germany
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Stephan Roth	Member	Germany
Yongting Wang	Member	China

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Gang Chen	Member	China
Marilyn Cipolla	Member	USA
Samuel Knauss	Member	Germany
Shinichi Takahashi	Member	Japan

LOCAL ORGANIZING COMMITTEES

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Yun Seon Song	Co-Chair	Sookmyung Women's University
Young Hoon Ryu	Co-Chair	Yonsei University
Keon Wook Kang	Member	Seoul National University
Gou Young Koh	Member	Korea Advanced Institute of Science and Technology (KAIST)
Dong-Eog Kim	Member	Dongguk University
Beom Joon Kim	Member	Seoul National University
Byung Gon Kim	Member	Ajou University
Seong-Gi Kim	Member	Sungkyunkwan University
Jae Seung Kim	Member	University of Ulsan
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Hahn Young Kim	Member	Konkuk University
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Hwa Kyoung Shin	Member	Pusan National University
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Eek-Sung Lee	Member	Soonchunhyang University
Jae Sung Lee	Member	Seoul National University
Jong Eun Lee	Member	Yonsei University
Seok Tae Lim	Member	Jeonbuk National University
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Joon Young Choi	Member	Sungkyunkwan University
Jin Chul Paeng	Member	Seoul National University
Ji Hoe Heo	Member	Yonsei University

CONFERENCE INFORMATION

Venue

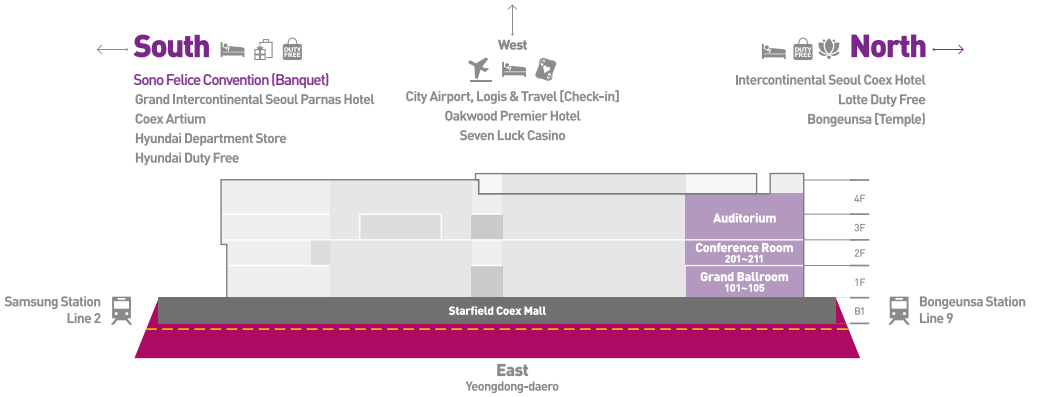
Brain & Brain PET 2025 will be held in the Grand Ballroom at COEX. To help participants find the venue easily, please follow these directions:

From the Underground Mall (Starfield mall/Parnas mall):

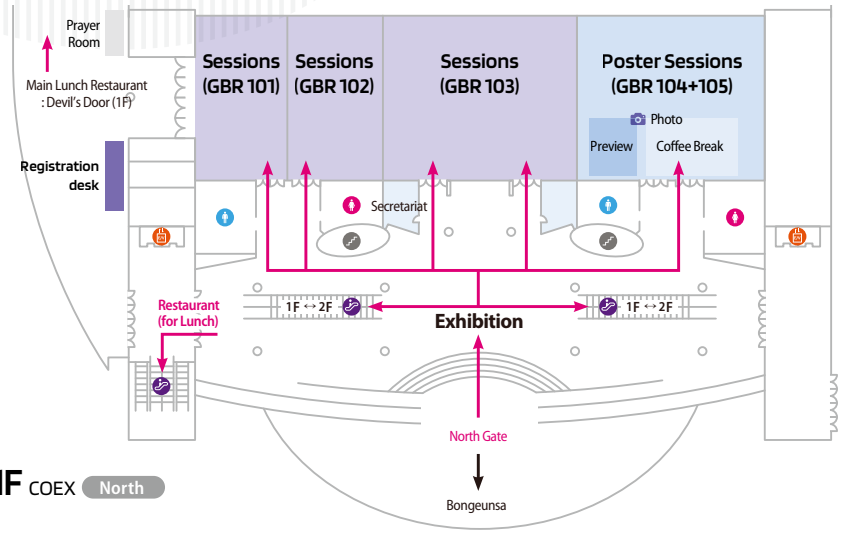
Head in the direction of theater (Megabox)
The Grand Ballroom is located on the 1st floor, directly above Megabox on B1.
Look for the Grand Ballroom signs along the way.

From Outside the Building:

If arriving by taxi or on foot, head towards the North Gate.
If you enter through the North Gate, you will arrive directly at the Grand Ballroom.
Even when navigating inside the building, finding the North Gate will make it easier to locate the venue.



Floor Plan



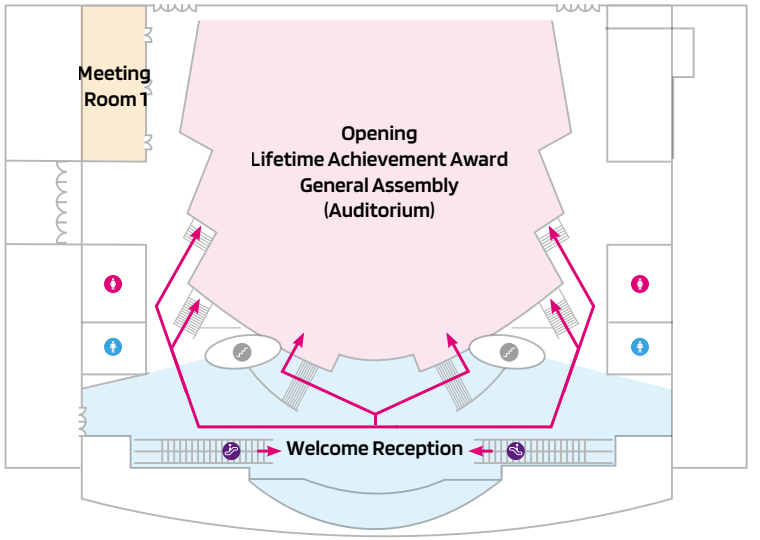
1F COEX North

2F COEX North

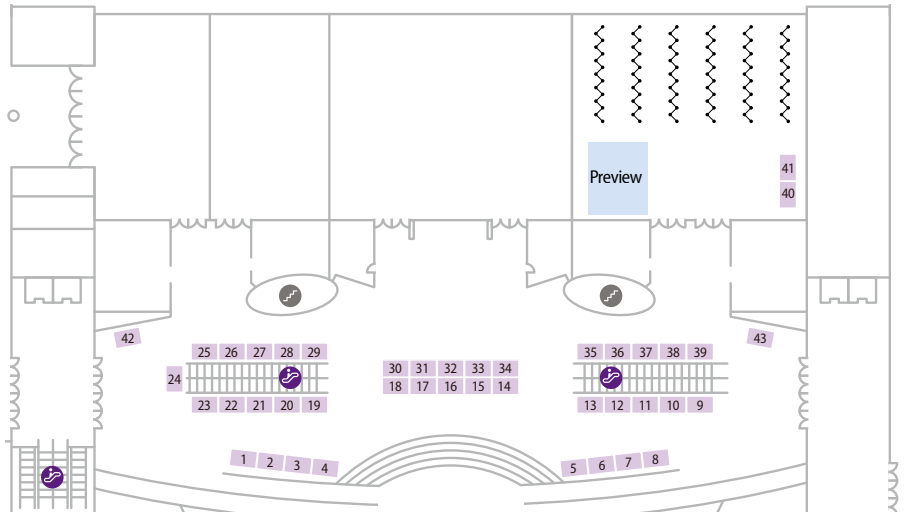
Childcare	Conference Room 211	June 1-4
2nd BoD Meeting	Conference Room 210	June 4

3F COEX North

JCBFM Meeting	Meeting Room 1	June 1
1st BoD Meeting	Meeting Room 1	June 2



Exhibition Layout



COMPANY NAME	BOOTH NO
BORYUNG	7
Brain 2027	41
Bredis Healthcare Inc.	3
Brightonix Imaging Inc.	19, 20
Chong Kun Dang Pharmaceutical Corp	5
Daewoong Pharmaceutical	37, 38
DONG-A ST	43
Duchembio	1
Eisai Korea Inc.	17, 18
FUTURECHEM	2
GE HealthCare	33, 34
HANDOK	42
Hanmi	39
IVIM Technology, Inc.	30, 31
Korea Otsuka Pharmaceutical	32
Korea United Pharm.	6

COMPANY NAME	BOOTH NO
Lilly Korea	8
Myungin Pharm.	35, 36
Nanoscope Systems, Inc.	23
Neurophet	12, 13
OBELAB	24
Organon Korea	9
Philips Korea	16
Sage	40
Samjin Pharm	4
Sanofi	10, 11
Scitech Korea Inc.	21
SCL Healthcare	14, 15
Siemens Healthineers Ltd.	25, 26
United Imaging Healthcare	28, 29
VIVO Solutions	22
Yuhan	27

*All exhibitors are listed in alphabetical order.

Exhibition Booth Tour Event: Stamp & Win!

Visit all 30 exhibition booths to collect stamps and drop your completed stemp sheet into the draw box at the Registration Desk. You'll be entered for a lucky draw with exciting prizes. Complete your journey. Claim your chance to win!

Registration Desk

The registration and information desk is located on the Side-Lobby of the Grand Ballroom (1F).

LOCATION	OPERATION
Sunday, June 1	08:00 - 18:00
Monday, June 2	07:00 - 18:00
Tuesday, June 3	07:30 - 18:00
Wednesday, June 4	07:30 - 17:00

Name Badges

For identification purpose and admission to the conference venue, badges are expected to be worn at all times during the conference (June 1 – June 4).

Preview Room

All presenters are required to upload the presentation file at the preview room at least 1 hours before their presentation. Presenter will be able to upload or review/update their presentation(s) in the preview room.

LOCATION	OPERATION
Preview Room inside of Grand Ballroom 104	June 1 - 4, 07:00-17:00

Coffee Break

Coffee Breaks are provided as per the program schedule at the Grand Ballroom 104 & 105.

Wifi

COEX offers free Wi-Fi that does not require a password. However, please note that connection quality may vary depending on the number of simultaneous users. If you require access to a premium (paid) Wi-Fi service, please contact the registration desk for assistance.

Certificate of Attendance

Certificate of Attendance is available for download after the conference.

Secretariat Office

Brain & Brain PET Secretariat office is located to the left of the entrance to Grand Ballroom 103.
The operating time is from 8:00 to 18:00 during the conference.

Childcare Service

Childcare will be provided during the conference for participants who registered in advance.
If you did not pre-register but are interested, please visit Room 211 to check for availability.

Instant Photo Event

Smile and Capture the Moment!
We're hosting a fun instant photo event near the Proview Room (Inside of GBR 104).
Put on a beautiful Hanbok, strike your best pose, and take home a special memory.
This special event is only happening on June 2–3, so make sure to stop by.

LUNCH INFORMATION

During the conference, participants may enjoy lunch using the Lunch Coupon (worth up to KRW 20,000) included in your name tag.

How to Use the Lunch Coupon

- Present your lunch coupon at one of the participating restaurants listed below.
- Each lunch coupon, labeled by date, is valid during the corresponding day of the conference.
- Coex and Starfield Mall get very crowded during lunch time (12:00–1:30 PM). To avoid the rush, try to eat before or after peak hours.

Lunch Break Time

DATE	REMARK
June 1 (Sun)	12:30 - 14:00
June 2 (Mon)	12:30 - 13:30
June 3 (Tue)	12:00 - 13:00
June 4 (Wed)	12:30 - 13:30

- If the total cost of your meal exceeds KRW 20,000, the difference must be paid by the participant.
- If your meal costs less than KRW 20,000, no cash refund will be provided for the remaining balance.

Main Restaurant

To help you avoid lunchtime congestion, the Local Organizing Committee (LOC) has partnered with the large-scale restaurant Devil's Door COEX to offer two quick-service menu options each day. If you wish to avoid the lunchtime rush, we recommend checking the daily special menu below and making your selection accordingly.
Lunch will be served on a first-come, first-served basis.

Daily Menu at DEVIL's DOOR

NO.	LOCATION	DATE	MAIN MENU	
Main restaurant	1F, COEX (near the East Gate)	June 2	Mushroom Cream Pasta	Pork Cutlet with Butter Curry Sauce
		June 3	Bolognese Rigatoni	Chicken Jambalaya Rice
		June 4	Meat Rice Bowl	Seafood Curry Rice

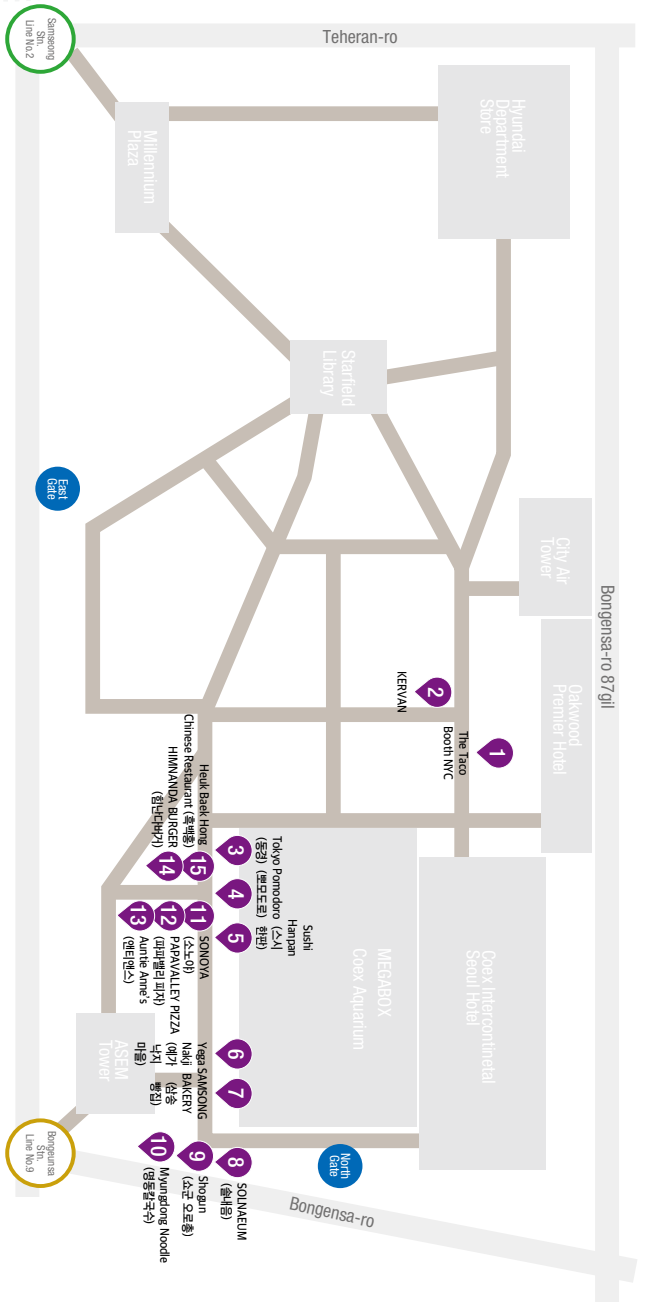
* One soda is included in the daily menu.

Designated partner Restaurants

NO.	RESTAURANT NAME	LOCATION	MAIN MENU	REMARKS
1	The Taco Booth NYC	B1, COEX Mall	Taco, Poke, Burrito	
2	KERVAN	B1, COEX Mall	Kebab, Pidé	
3	Tokyo (동경)	B1, COEX Mall	Pork Cutlet, Soba Noodle, Sushi	
4	Pomodoro (뽀모도로)	B1, COEX Mall	Pasta & Pizza	
5	Sushi Hanpan (스시한판)	B1, COEX Mall	Sushi & Sashimi	
6	Yega Nakji (예가낙지마을)	B1, COEX Mall	Stir-fried octopus in spicy Korean sauce	
7	SAMSONG BAKERY (삼송빵집)	B1, COEX Mall	Bread & Pastries	
8	SOLNAEUM (솔내음)	B1, COEX Mall	Traditional Korean Food (Hot stone pot rice)	
9	Shogun (쇼군 오로총)	B1, COEX Mall	Japanese Ramen & Topped Rice Bowl	
10	Myungdong Noodle (명동칼국수)	B1, COEX Mall	Traditional Korean Noodle	X
11	PAPAVALLEY PIZZA (파파밸리 피자)	B1, COEX Mall	Pizza	
12	SONOYA (소노야)	B1, COEX Mall	Japanese Ramen & Donburi	
13	Auntie Anne's (앤티앤스)	B1, COEX Mall	Pretzel & Hotdog	
14	HIMNANDA BURGER (힘난다버거)	B1, COEX Mall	Burgers	X
15	Heuk Baek Hong Chinese Restaurant (흑백홍)	B1, COEX Mall	Chinses Cuisine (Fried rice, spicy seafood soup)	

Location

Basement Level 1 (B1), COEX Mall



SOCIAL PROGRAMS

Welcome Reception

Welcome to Brain & Brain PET 2025! We're delighted to welcome you after your long journey with a refreshing welcome drink. All participants are kindly invited to attend the welcome reception. A light welcome cocktail with finger food will be offered to all registered participants.

DATE & TIME	17:30-19:00, June 1
VENUE	Auditorium Lobby (3F), COEX
FEE	Included in registration fee

ECI Networking

This will be a unique opportunity to unwind, connect with fellow early career investigators, and continue conversations with the session's speakers – all while enjoying dinner with stunning city views.
Expect great food, great company, engaging conversations, and plenty of fun!

DATE & TIME	19:30-21:30, June 2
VENUE	B Work Seoul (E-Land Cruise Jamsil Pier)
ADDRESS	2F, E-Land Cruise, 2 Baekjegobun-ro, Songpa-gu, Seoul (15 minutes by car or 40 minutes on foot)
TICKET	$50

Shuttle

BOARDING LOCATION	COEX North Gate (first-come, first-served basis)
DEPARTURE TIMES	18:00, 19:05
RETURN SHUTTLE (FROM B WORK SEOUL)	Departs at 22:00 and 22:50

How to Enjoy the Han River Like a Local

Looking for a fun and refreshing way to explore Seoul in the summer? Rent a bike to enjoy the scenic views along the Han River — just like the locals do.

Bike Rental Information:

LOCATION	Jamsilsaenae Hangang Park Bike Rental Station (3–5 minute walk to the east, along the riverside path.)
OPERATING HOURS	10 AM – 8 PM
RENTAL FEES	~~₩~~3,300 KRW per hour

No app or membership is needed — just visit the rental booth, present your ID (such as a passport), and you're good to go.

After your ride, relax by the riverside with a bowl of instant ramen cooked right at the convenience store or enjoy some crispy Korean fried chicken — a perfect way to wind down and take in the night views of Seoul.

Banquet

We warmly invite all banquet ticket holders to attend the ISCBFM Banquet, a special evening of fine dining and entertainment. Please remember to bring the banquet ticket attached to your name badge for entry. If you haven't purchased a ticket yet, a limited number of seats are still available — please inquire at the registration desk.

Enjoy a six-course dinner alongside performances by talented members of our society, followed by a live jazz performance to round out the evening. Don't miss this opportunity to celebrate, connect, and relax with your fellow attendees in a memorable setting.

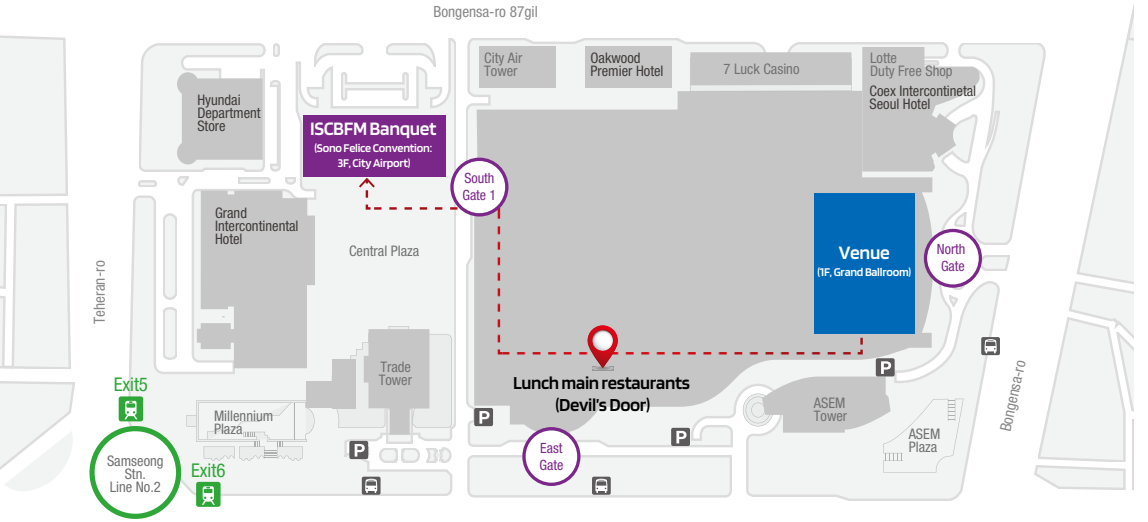
DATE & TIME	19:00-21:00, June 3
VENUE	Sono Felice Convention
ADDRESS	#3F, 22 City Airport, Teheran-ro 87-gil, Gangnam-gu, Seoul (7 minutes on foot from GBR)
TICKET	150 USD

How to Get to Sono Felice from the COEX Grand Ballroom

The easiest way to reach Sono Felice from the COEX Grand Ballroom is as follows:

1. Exit the ballroom and walk straight along the first floor of COEX.
2. Head towards South Gate 1 (COEX South Gate 1).
3. Once you exit through South Gate 1, you'll see a building on your right with a sign for Airport Limousine Bus — this is the City Airport.
4. Sono Felice is located on the 3rd floor of that building.

To help guide you, our staff members will be positioned along the way holding printed signs. Please look out for them to ensure an easy and smooth transition to the venue.



AWARDS

The Lifetime Achievement Award

Eng H. Lo (Massachusetts General Hospital, USA)

The Neils Lassen Award

The Neils Lassen Award is presented by the International Society of Cerebral Blood Flow and Metabolism to recognize an outstanding scientific contribution made by a young scientist. The recipient is selected by the program committee based on an abstract submitted for presentation at the biennial meeting of the society.

Finalists 2025

Shengju Wu (Shanghai JiaoTong University, China: CAS)
John Howell (University of Florida, USA)
Kevin Chung (University of California, USA)
Sharon Negri (University of Oklahoma Health Science Center, USA)

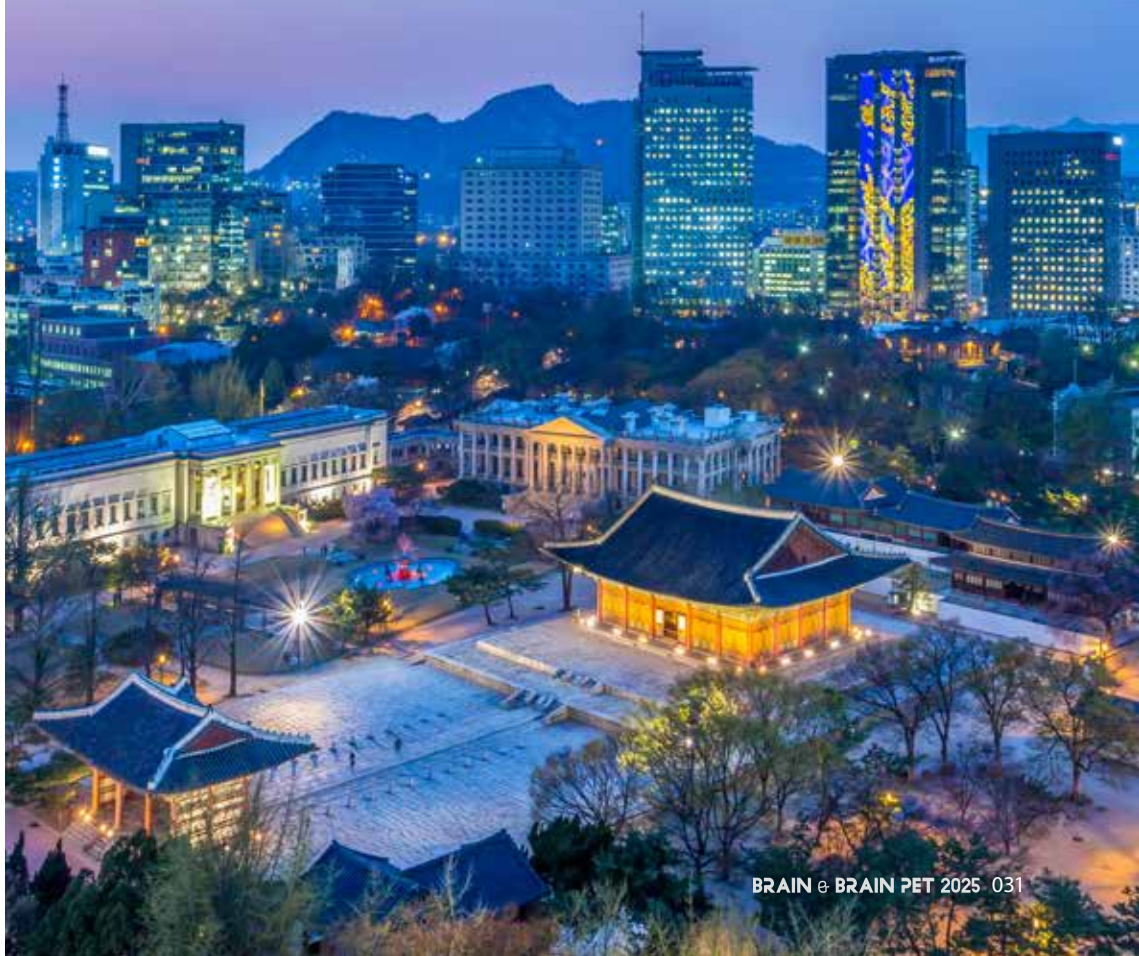
Early Career Investigator Travel Bursary Recipients

Silvia Anderle, UK
Maria Hovmann Andresen, Denmark
Leonardo Barzon, Italy
Orla Bonnar, USA
Valentina Bucher, Sweden
Emilia Butters, UK
Yirong Cao, China: CAS
Natasha Carmichael, UK
Charles Carron, Belgium
Salih Cayir, USA
Brian Chang, USA
Pattarawut Charatpangoon, Canada
Weijie Chen, China: CAS
Wan-Ru Chen, Taiwan
Kevin Chung, USA
Jacqueline Condrau, Switzerland
Hannah Coombe, Australia
Joseph Cooper, UK
Katherine Cotter, USA
Harry Deijnen, UK
Shiyu Deng, China: CAS
Flavie E. Detcheverry, Canada
Gaelle M. Emvalomenos, USA
Pia Falb, Austria
Linus Falk, Sweden
Lorena Fernandes, UK
Hannah Ferris, USA
Catherine Foster, USA
Bart Franx, Netherlands
Lukas Glandorf, Switzerland
Alba Grayston, UK
Yunlu Guo, China: CAS
Gokce Gurler, USA
Brandon Hall, Canada
Karolina Hedman, Sweden
Rebecca Hood, Australia

John Howell, USA
Alaaddin Ibrahimy, USA
Takahiko Imai, USA
Danielle Jeffrey, USA
Rachel Jones, UK
Zalan Kaposzta, USA
Nischal Khanal, USA
Nikkita Khattar, USA
Jiwon Kim, USA
Marios Kritsilis, Sweden
Benjamin Le Gac, Canada
Juliette Lévénez, Netherlands
Huaming Li, China: CAS
Zheqin Li, UK
Yan Li, China: CAS
Junbo Liao, Hong Kong
Hyun-Kyoung Lim, USA
Yuxin Liu, China: CAS
Lucia Maccioni, Italy
Antoine Malescot, Canada
Domenico Mercurio, USA
Madison Milan, USA
Christian Milz, Austria
William Morrey, UK
Evan Morris, USA
Ioana-Emilia Mosneag, UK
Karthik Mouli, USA
Matej Murgaš, Austria
Sharon Negri, USA
Mary Newland, UK
Lina Park, USA
Sung Min Park, USA
Charith Perera, UK
An Ping, China: CAS
Magdalena Ponce de León, Austria
Nakul R. Raval, USA
Phinea Romero, USA
Matthew Rozak, Canada
Hans Christian Rundfeldt, Netherlands
Alexandra Schwarz, Germany
Serena Seminara, Italy
Rahul Sidhu, UK
Hiroki Suzuki, Japan
Victor Tapia, UK
Claudia Tato-Fernández, Finland
Sherwin Tavakol, USA
Olivia Tong, Canada
Giulia Vallini, Italy
Ellen van Hulst, Netherlands
Tommaso Volpi, USA
Meiqi Wang, Netherlands
Miao Wang, USA
Junyeon Won, USA
Shengju Wu, China: CAS
Wanqing Xie, China: CAS
Tongtong Xu, China: CAS
Jingjing Xu, China: CAS
Jing Ye, China: CAS
Weizhen Ye, China: CAS
Lisha Ye, China: CAS
Jin-Hui Yoon, Korea
Laurianne Zana, Canada
Yueman Zhang, China: CAS
Moss Zhao, USA

ISCBFM MEETINGS

MEETING	DATE	TIME	LOCATION
General Assembly By ISCBFM member only	June 2	12:30-13:30	Auditorium (3F)
JCBFM Editorial Meeting By invitation only	June 1	19:00-21:00	Meeting Room 1 (3F)
1st Board Meeting By invitation only	June 2	18:30-21:00	Meeting Room 1 (3F)
2nd Board Meeting By invitation only	June 4	18:00-20:00	Meeting Room 210 (2F)



PRESENTATION INSTRUCTION

Oral Presentation

Presentation

- All presenters are asked to strictly observe their assigned presentation time.
- Presenters are requested to be in their session room at least 15 minutes before the start of the session. Report to the chair or session room staff.

Presentation File Format

- Presentations are created using Microsoft PowerPoint or Portable Document Format (PDF).
- The recommended screen setting is 16:9 (Landscape).

Audio-Visual Equipment

- The session room will be equipped with a master computer, which shall be used for all presentations.
- We do not recommend using your own laptop computer for presentation to avoid technical problems and to save time that would otherwise be needed for speaker transition.

Presentation Material Submission

- Please bring your presentation file stored on USB stick and upload it in the preview room at least 1 hour before your presentation. Presenter will be able to upload or review/update their presentation(s) in the preview room.
- If the presentations include the movie files and animations, please copy all the relevant files into a folder of their own creation.

Flash Presentation

Presentation

- Presenters should plan to speak for 4 minutes or less.
- All presenters are asked to strictly observe their assigned presentation time.
- Presenters are requested to be in their session room at least 15 minutes before the start of the session. Report to the chair or session room staff.
- Flash talk presenters will also participate in the poster session. In case there are questions about your presentation, you are encouraged to use your assigned poster session time for further discussion.

Poster Presentation

Location

- Posters are presented in the Grand Ballroom 104 & 105 (1F) of the Coex.

Presentation

- Please stand in front of your poster before the poster presentation session begins.

Set-up and Remove

- Adhesive tape will be available to attach your poster to the panel.
- Mounting and removal must be done during the assigned schedule only. If not, posters will be removed by the staff without notice and the organizing committee will not take responsibility for any damages or losses.

DATE	PROCESS		TIME
June 2 (Mon)	Put up posters		June 2 (Mon), 07:00 - 09:00
	Poster Presentation	PS01	June 2 (Mon), 10:00 - 11:00
		PS02	June 2 (Mon), 15:00 - 16:00
	Remove posters		June 2 (Mon), 17:00 - 18:30
June 3 (Tue)	Put up posters		June 3 (Tue), 07:00 - 09:00
	Poster Presentation	PS03	June 3 (Tue), 09:30 - 10:30
		PS04	June 3 (Tue), 14:30 - 15:30
	Remove posters		June 3 (Tue), 17:00 - 18:30
June 4 (Wed)	Put up posters		June 4 (Wed), 07:00 - 09:00
	Poster Presentation	PS05	June 4 (Wed), 10:00 - 11:00
		PS06	June 4 (Wed), 15:00 - 16:00
	Remove posters		June 4 (Wed), 16:00 - 17:00

THE SEOULITE EXPERIENCE

A pause from the urban pace of life

Templestay

Bongeunsa Temple

531 Bongeunsa-ro, Gangnam-gu, Seoul (Bongeunsa Station, Exit 1)

+82-2-3218-4800

Templestay is a set of unique programs, each of which allow you to experience some aspects of the daily life of Buddhist devotees at traditional temples, where the 1700-year history and culture of Korean Buddhism have been preserved. Meditation gives you time to reflect on your inner world in a silence, while during Chadam, you drink tea and converse with others. Bongeunsa Temple in downtown Seoul, offer well-structured templestay programs for international visitors, making your time away from a busy schedule well worth it. A truly exotic, healing and spiritual experience right in the fas t-paced city center.

A place to taste the world

Traditional Market Food Tour

88 Changgyeonggung-ro, Jongno-gu, Seoul (Jongno 5-ga Station, Exit 7)

kwangjangmarket.co.kr +82-2-2267-0291

Gwangjang Market, the Korea's first permanent market, is an iconic place in Seoul with its 110 years of tradition, making it popular for both locals and visitors. Its popularity as a food alley for a variety of delicious, cheap food grew after "Running Man," a popular Korean Variety show in Asia, was filmed there. Must-try dishes include nokdu bindaetteok (ground mung beans made into a batter, which is pan-fried with lots of cooking oil), mayak (drug) kimbap ("highly addictive" kimbap served with a mustard dipping sauce), bibimbap (a bowl of rice served with colorful vegetables on top), and fresh raw beef marinated in special sauce.

Metropolitan activities

Water Sports on Hangang River

Golden Blue Marina

2085-14, Some Sevit, Olympic-daero, Seocho-gu, Seoul (Express Bus Terminal, Exit 8-1)

www.gbboat.com

Seoul easily measures up to sea-side resort communities when it comes to water sports, which can be enjoyed just as dynamically as they can on the ocean. For beginners, try a paddle board after a brief lesson. If you are not a big fan of adventure, but still want a little dose of it in the city, why not try a kayak or get on a yacht where there is a lower risk of getting wet? Watching the sun go down on a kayak is a special way to end the day, making the sunset kayak a must-do activity for young residents of the city.

A romantic way to go back in time to a royal palace

Moonlight Palace Tour

Changdeokgung Palace Moonlight Tour

99 Yulgok-ro, Jongno-gu, Seoul (Anguk Station, Exit 3)

www.chf.or.kr +82-2-3210-3503

Seoul's royal palaces, where the Joseon kings of old resided, become mysterious at night. Open after dark for only a few weeks in spring and autumn, come take advantage of the brief window to participate in any of a variety of programs for visitors to walk through the historical sites and experience Joseon's royal culture in the moonlight. A limited number of tickets are sold in advance, so the competition to get one can be fierce even among local residents. If you're lucky enough to get a ticket for Gyeongbokgung Palace Starlight, you will be able to take in traditional Korean music performances in sojubang (the royal kitchen where meals for the king and royal banquets were prepared), taste the king's sura (meal), and look around Huwon (Secret Garden) accompanied by a seasoned commentator. Changdeokgung Palace, designated as a World Heritage Site by UNESCO, offers the Changdeokgung Moonlight Tour where visitors can explore many corners of the palace and enjoy traditional art performances with simple refreshments. If joining a scheduled tour is not for you, simply enjoy the romantic scenery of the historic sites at night on your own. Whichever way you choose, it will be a night well spent.

LOCAL INFORMATION

Language

Check out the useful expression in Korean below.

Hello!	annyeonghaseyo	안녕하세요
Good-bye.	annyeonghi gaseyo	안녕히 계세요
Thank you.	gamsahamnida	감사합니다
I'm sorry.	mianhamnida	미안합니다
Excuse me.	sillyehabnida	실례합니다
It's okay.	gwaenchanhseubnida	괜찮습니다
You're welcome.	cheonman-eyo	천만에요
Good.	johseubnida	좋습니다
Would you give me a help?	dowa juseyo	도와주세요

Business Hours

Government office hours are usually from 9:00 to 18:00 on weekdays. Banks are open from 9:00 to 16:00 on weekdays. Most stores are open every day from 10:30 to 20:00, including Sundays.

Credit Cards

Visa, MasterCard, American Express, and Diners Club are widely accepted at hotels, shops and restaurants in Korea. Check with your credit card company for details using abroad.

Currency & Exchange

Local currency is the South Korean won (KRW, 원 in Korean, pronounced like "won"). There are four bill denominations of 1, 000, 5, 000, 10, 000, and 50, 000 "won"s. Apart from the respective denominations, notes are easily discernible by distinct colors and different portraits of historical figures on each note. As of May 25, 2025, 1 US Dollar is equivalent to about 1,370 Korean Won (KRW) and 1 Euro is equivalent to about 1,555 Korean Won (KRW).

Bills

Coins

Tip & Tax

Tipping is not a customary practice in Korea. Generally, 10% Value Added Tax (VAT) is levied in the total payable. Some upscale restaurants and hotel facilities may charge another 10% Service Charges. Foreigners may take a benefit of reclaiming VATs at the airport for purchases made at shops but purchased goods must be taken out of the country within three months from the purchase date to be eligible for a tax refund. Visitors can receive a refund on a receipt for a minimum purchase of KRW 30, 000.

Voltage Information

The standard electricity supply is 220 volts AC/60 cycles. Most hotels may provide outlet converters for 110 and 220 volts. Participants are recommended to check with the hotel beforehand.

Emergency Phone Numbers

1339 Medical Emergency
119 Emergencies for Fire, Rescue & Hospital Services
112 Police
129 First Aid Services

NOTE


BRAIN &
BRAIN PET 2025
SCIENTIFIC PROGRAM
Scan the QR code to access
the Brain & Brain PET 2025 Abstracts

SCIENTIFIC PROGRAM

Day 1: Sunday, June 1

09:00-12:30 **BC01** Grand ballroom 101

Fundamental Concepts and Latest Advances in Preclinical Animal Modelling

Chairs Dr. Anna Rosell (Vall d'Hebron Research Institute, Spain)
Dr. Jerome Badaut (CNRS, France)

09:00-10:30 **Welcome from Chairs**

BC01-01 **Modelling ischemic stroke in mice: Is MCAo really MCAo?**
Nikolaus Plesnila (University of Munich (LMU), Germany)

BC01-02 **Find your target: Using photothrombosis for focal subcortical strokes**
Elena Blanco-Suárez (Thomas Jefferson University, USA)

BC01-03 **Tools to assess post-stroke depression and cognitive impairment: Considerations of age and sex as modifying variables**
Farida Sohrabji (Texas A&M Health College of Medicine, USA)

11:00-12:30 BC01-04 **Learning about novel and classical animal models of hemorrhagic stroke**
Eunhee Kim (University of Texas Health Science Center at Houston, USA)

BC01-05 **Promising animal models of vascular cognitive impairment for mechanistic and therapeutic investigations**
Yorito Hattori (National Cerebral and Cardiovascular Center, Japan)

Discussion

09:00-12:30 **BC03** Grand ballroom 102

AI and Machine Learning in Our Scientific Lives

Chairs Dr. Ann Stowe (University of Kentucky College of Medicine, USA)
Dr. Jill Abney (University of Kentucky, USA)

09:00-09:30 BC03-01 **AI in research: An interactive discussion about opportunities, obstacles, and emerging trends**
Jill Abney (University of Kentucky, USA)

09:30-10:00 BC03-02 **Practical AI tools to streamline research efficiency**
Annabel McAtee (University of Kentucky, USA)

10:00-10:30 BC03-03 **Standards for scRNA-seq analysis for physicians and scientists studying cerebrovascular disease**
Dandan Sun (University of Pittsburgh, USA)

Scientific Program_June 1

11:00-11:30 BC03-04 **Collaboration with AI developers and implementation in society: Insights from our work on automated 3D MRI segmentation**
Shigeki Yamada (Nagoya City University Graduate School of Medical Science, Japan)

11:30-12:00 BC03-05 **Foundation models in neuroimaging: Future-Proofing our workflows**
Pere Canals (Vall d'Hebron Research Institute/Stanford University, Spain)

12:00-12:30 **Panel discussion**

09:00-12:30 **BP01** Grand ballroom 103

Practical Applications of Tracer Kinetic Modeling in Brain PET: Challenges and Opportunities

Chairs Dr. Sandeep Golla (Perceptive Discovery, Amsterdam University Medical Center, location VUmc, Uppsala University, Netherlands)
Prof. Richard E. Carson (Yale University, USA)

09:00-09:30 BP01-01 **PET data and preprocessing**
Paolo Zanotti Fregonara (Perceptive Inc., France)

09:30-10:00 BP01-02 **Introduction to compartment modelling**
Richard E. Carson (Yale University, USA)

10:00-10:30 BP01-03 **Flow and metabolism**
Mark Lubberink (Uppsala University, Sweden)

11:00-11:30 BP01-04 **NeuroPET quantification using reference tissue models**
Sandeep Golla (Perceptive Discovery, Amsterdam University Medical Center, location VUmc, Uppsala University, Netherlands)

11:30-12:00 BP01-05 **Simplifications and clinical use of quantification**
My Jonasson (Uppsala University, Sweden)

12:00-12:30 BP01-06 **Pitfalls and challenges**
All Speakers

14:00-17:30 **BC02** Grand ballroom 101

Basics of the Full Brain Imaging Spectrum and Analysis

Chairs Prof. Kazuto Masamoto (University of Electro-Communications, Tokyo, Japan)
Dr. Ann Stowe (University of Kentucky College of Medicine, USA)

14:00-14:45 BC02-01 **Computational pipeline for analysis of cerebral microvascular networks imaged on two-photon fluorescence microscopy**
Bojana Stefanovic (Sunnybrook Research Institute, Canada)

14:45-15:30 BC02-02 **Deep learning toolbox for optical coherence tomography angiogram analysis**
Jonghwan Lee (Brown University, USA)

16:00-16:45 BC02-03 **Light and sound for multi-scale interrogation of cerebral anatomy and function**
Daniel Razansky (University of Zurich and ETH Zurich, Switzerland)

16:45-17:30 BC02-04 **Multiparametric MRI in preclinical and translational stroke research**
Rick Dijkhuizen (University Medical Center Utrecht, Netherlands)

14:00-17:30 **BC04** Grand ballroom 102

The Art of Applying: Academic Job Applications and Package Negotiations

Chair Dr. Francesca Mandino (Yale University School of Medicine, USA)

14:00-14:23 BC04-01 **Asking for help with your job search**
Evan D Morris (Yale University, USA)

14:23-14:46 BC04-02 **Constructing a strong application**
Xin Yu (Massachusetts General Hospital/Harvard Medical School, USA)

14:46-15:09 BC04-03 **Research talk and research statement**
Garth J. Thompson (Anhui Institute of Chinese Medicine, China)

15:09-15:32 BC04-04 **Navigating startup negotiations**
Yen-Yu Ian Shih (University of North Carolina at Chapel Hill, USA)

16:00-17:30 **Panel Discussion**

14:00-17:30 **BP02** Grand ballroom 103

Molecular Connectivity for Beginners

Chairs Prof. Mark Lubberink (Uppsala University, Sweden)
Dr. Sharna Jamadar (Monash University, Australia)

14:00-14:45 BP02-01 **Methodological aspects of connectivity**
Murray Reed (Medical University of Vienna, Austria)

14:45-15:30 BP02-02 **Metabolic connectivity and fPET**
Sharna Jamadar (Monash University, Australia)

16:00-16:45 BP02-03 **Unlocking a new framework for mapping brain networks: Single-subject metabolic connectivity with dynamic [^{18}F]FDG-PET**
Giulia Vallini (University of Padova, Italy)

16:45-17:30 BP02-04 **Molecular connectivity: Background and potential clinical applications**
Igor Yakushev (Technical University of Munich, Germany)

Day 2: Monday, June 2

08:00-09:00 **LAA** Auditorium

Opening & Lifetime Achievement Award

OPENING ADDRESS
Sunghee Cho (President, ISCBFM)

WELCOMING REMARKS
Yong Jeong (Chair, Brain & Brain PET 2025 LOC)

PROGRAM INTRODUCTION
Hélène Girouard (Co-chair, Program Committee)

CEREMONY FOR LIFETIME ACHIEVEMENT AWARD

TRADITIONAL PERFORMANCE

09:00-10:00 **PRL** Auditorium

Presidential Lecture

Chair Prof. Sunghee Cho (Weill Cornell Medicine/Burke Neurological Institute, USA)

Ironing out ferroptotic cell death mechanisms to tailor novel stroke therapeutics
Rajiv R. Ratan (Associate Dean, Weill Cornell Medicine CEO, Burke Neurological Institute, USA)

10:00-11:00 **PS01** Grand ballroom 104-105

Poster Session 01

11:00-12:30 **BPSY01** Grand ballroom 101

Mapping the Dynamics of Neurotransmitter Action

Chair Prof. Rupert Lanzenberger (Medical University of Vienna, Austria)

11:00-11:20 BPSY01-01 **Decoding dopamine and its receptor dynamics with PET/MRI**
Qikai Qin (Massachusetts General Hospital; Harvard Medical School, USA)

11:20-11:40 BPSY01-02 **Neuroimaging of classical psychedelics' target engagement**
Gitte M Knudsen (Copenhagen University Hospital Rigshospitalet, Denmark)

11:40-12:00 BPSY01-03 **The role of the opioid system in reward and fear processing: Insights from [11C]Carfentanil PET**
Vesa Putkinen (University of Turku, Finland)

12:00-12:20 BPSY01-04 **Use of the synthesis model for task-specific changes in dopamine and serotonin signaling**
Matej Murgaš (Medical University of Vienna, Austria)

11:00-12:30 **BS01** Grand ballroom 102

Pathology 1: Cerebral Ischemia 1

Chairs Prof. Dong-Eog Kim (Dongguk University Ilsan Hospital, Korea)
Dr. Gulnaz Begum (University of Pittsburgh, USA)

11:00-11:15 BS01-01 **GPR68 activation regulates ER stress responses and offers protection in brain ischemia in mice**
Xiang-ming Zha (Tulane University, USA)

11:15-11:30 BS01-02 **Inhibition of nitric oxide synthase transforms carotid occlusion-mediated benign oligemia into large cerebral infarction**
Dong-Eog Kim (Dongguk University Ilsan Hospital, Korea)

11:30-11:45 BS01-03 **New insights on perivascular astrocytes preserving vascular integrity and function in stroke brain**
Gulnaz Begum (University of Pittsburgh, USA)

11:45-12:00 BS01-04 **Hypoxia-inducible protein 2 mediates metabolic adaptation and immunosuppressive function of brain-infiltrating Ly6ChighLy6Glow monocytes in cerebral ischemic stroke**
Weijie Chen (Renji Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China: CAS)

12:00-12:15 BS01-05 **HTR2B enhances the phagocytosis of microglia/macrophage and promotes neuroinflammation resolving after stroke**
Yueman Zhang (Renji Hospital, Shanghai Jiao Tong University School of Medicine, China: CAS)

11:00-12:30 **SY01** Grand ballroom 103

Cerebral Small Vessel Disease Redefined: Innovative Insights Driving Future Translation

Chair Prof. Byung Gon Kim (Ajou University School of Medicine, Korea)

11:00-11:20 SY01-01 **AIM2 inflammasome inhibition improves cognition and cerebral blood flow in a mouse model of vascular dementia**
Quynh Nhu Dinh (La Trobe University, Australia)

11:20-11:40	SY01-02	**Border-associated macrophages: Emerging roles in small vessel diseases** Laibaik Park (Cornell University, Weil Medical College, USA)
11:40-12:00	SY01-03	**Novel white matter miRNA targets for hypoperfusion** Tracy D Farr (University of Edinburgh, UK)
12:00-12:20	SY01-04	**Role of oligodendrocyte precursor cells in white matter damage and repair** Ken Arai (Massachusetts General Hospital, USA)

12:30-13:30	GA	Auditorium

General Assembly

13:30-15:00	BPS01	Grand ballroom 101

Technology, Methodology, Tracers & Targets

Chairs		Prof. Richard E. Carson (Yale University, USA) Prof. Song Hyun Jo (Korea Advanced Institute of Science and Technology, Korea)
13:30-13:45	BPS01-01	**A novel blood-free and reference-free methodology to quantify TSPO PET imaging** Lucia Maccioni (University of Padova, Italy)
13:45-14:00	BPS01-02	**Synaptic density PET imaging on fetal and maternal brain in NeuroEXPLORER** Takuya Toyonaga (Yale School of Medicine, USA)
14:00-14:15	BPS01-03	**A novel [18F]FDG PET kinetic model governed by metabolic driver parameters for high-fidelity multi-functional imaging** Song Hyun Jo (Korea Advanced Institute of Science and Technology, Korea)
14:15-14:30	BPS01-04	**Histone deacetylase 6 (HDAC6) [18F]EKZ-001 PET in amyotrophic lateral sclerosis with and without frontotemporal spectrum disorder** Charles Carron (Katholieke Universiteit Leuven, Belgium)
14:30-14:45	BPS01-05	**First in man and test-retest evaluation of [11C]BIO-1819578, a radioligand for O-GlcNAcase** Martin Bolin (Karolinska Institutet & Stockholm Health Care Services, Region Stockholm, Sweden)

14:45-15:00	BPS01-06	**Preclinical and initial clinical evaluation of [11C]MODAG-005, a novel PET tracer targeting alpha-synuclein aggregates** Daniel Bleher (University of Tuebingen, Tuebingen, Germany)

13:30-15:00	BS02	Grand ballroom 102

Flash Presentation 1: Cerebrovascular Regulation in Health and Diseases

Chair		Dr. Bojana Stefanovic (Sunnybrook Research Institute, Canada)
13:30-13:35	BS02-01	**PAI-1 in border-a ssociated macrophages suppresses TPA activity and impairs functional hyperemia in amyloid pathology** Antoine Anfray (Weill Cornell Medicine, USA)
13:35-13:40	BS02-02	**Vulnerability of venous-associated pericytes in cerebral amyloid angiopathy leads to altered capillary structure** Cara Nielson (University of Washington, USA)
13:40-13:45	BS02-03	**Amyloid B(1-40)-integrin binding is the key to unlocking cerebral blood flow in Alzheimer's disease** Harry Pritchard (University of Manchester, UK)
13:45-13:50	BS02-04	**Functional ultrasound characterisation of two Alzheimer's disease mouse models** Ioana-Emilia Mosneag (The University of Manchester, UK)
13:50-13:55	BS02-05	**Cardiac-induced volumetric brain tissue pulsations in patients with unilateral extracranial carotid artery steNOSis** Ellen van Hulst (University Medical Center Utrecht, Netherlands)
13:55-14:00	BS02-06	**Clinical and hemodynamic outcomes of one-staged revascularization combining STA-MCA bypass with encephalo-duro-myo-synangiosis and bifrontal encephalo-duro-periosteal-synangiosis in moyamoya disease** Hideyuki Yoshioka (University of Yamanashi, Japan)
14:00-14:05	BS02-07	**Exploring the association of cerebral vasoreactivity in patients with acute intracerebral hemorrhage with functional outcomes** Turgut Durduran (ICFO - Institut de Ciències Fotòniques, Spain)
14:05-14:10	BS02-08	**Thromboxane receptor knock-out in CNS pericytes increases capillary regression and bridge pericytes** Catherine Foster (Seattle Children's Research Institute, USA)
14:10-14:15	BS02-09	**Neurovascular sequelae of repeated traumatic brain injury comorbid with chronic stress** Matthew Rozak (University of Toronto, Canada)
14:15-14:20	BS02-10	**High caloric intake rescues attenuation of hippocampal neurovascular coupling in a rat model of Alzheimer's disease** Dustin Loren Almanza (University of Toronto, Canada)

14:20-14:25	BS02-11	**Regional distribution of amplitudes of low-frequency fluctuations assessed using resting-state functional MRI signal in healthy young adults** Junyeon Won (University of Texas Southwestern Medical Center, USA)
14:25-14:30	BS02-12	**Elucidating the impact of inhibition on neurovascular coupling during sensory processing** Laurianne Zana (University of Montreal, Canada)
14:30-14:35	BS02-13	**Neurovascular coupling is shaped by distinct vascular compartments during touch vs. pain** Antoine Malescot (Université de Montréal, Canada)
14:35-14:40	BS02-14	**Microglial reactivity: A key to neurovascular coupling disruption in hypertension** Benjamin Le Gac (University of Montréal, Canada)
14:40-14:45	BS02-15	**Activation of P2 purinergic receptors rescues sex-dependent neurovascular uncoupling in an autism model** Phinea Romero (University of Colorado - Anschutz Medical Campus, USA)
14:45-14:50	BS02-16	**Temporary carotid occlusion alters neurovascular function: Insights from a rodent model** Sherwin Tavakol (University of Oklahoma Health Sciences Center, USA)
14:50-14:55	BS02-17	**Effects of NAD restoration on cerebrovascular plasticity in older adults** Zalan Kaposzta (Associate Research Scholar, USA)

13:30-15:00	**SY02**	Grand ballroom 103

Reprogramming the Brain after Stroke

	Chair	Dr. Wenlu Li (Zhejiang Chinese Medical University, China)
13:30-13:50	SY02-01	**Endothelial regulation for cellular reprogramming** Wenlu Li (Zhejiang Chinese Medical University, China)
13:50-14:10	SY02-02	**Astrocyte reactivity and stroke remodeling** Vanessa Castelli (University of L'Aquila, Italy)
14:10-14:30	SY02-03	**Reprogramming microglia for modulating inflammation** Yanqin Gao (Fudan University, China)
14:30-14:50	SY02-04	**Stem cells for stroke recovery** Cesar V Borlongan (University of South Florida Morsani College of Medicine, USA)

15:00-16:00	**PS02**	Grand ballroom 104-105

Poster Session 02

16:00-17:30	**BPS02**	Grand ballroom 101

Flash Presentation: Brain PET

	Chair	Prof. Yasuomi Ouchi (Hamamatsu University School of Medicine, Japan)
16:00-16:05	BPS02-01	**Permeability-surface area product estimation of [18F]MK6240 using simulation** Masashi Kameyama (Tokyo Metropolitan Institute for Geriatrics and Gerontology, Japan)
16:05-16:10	BPS02-02	**Clinical and quantitative advances in the synthesis of late-frame [11C]-PiB PET images from early-frame acquisitions** Bo-Wei Tsai (National Taiwan University, Taiwan)
16:10-16:15	BPS02-03	**Advancing antibody-based pretargeted PET imaging of protein aggregates in the brain** Michael Honer (Roche Innovation Center Basel, Switzerland)
16:15-16:20	BPS02-04	**Evaluation of data-driven list-mode motion estimation techniques for signal-varying dynamic PET acquisitions** Martin Bolin (Karolinska Institutet & Stockholm Health Care Services, Region Stockholm, Sweden)
16:20-16:25	BPS02-05	**CBF in healthy aging measured with non-invasive dual-bolus 15O-water PET** My Jonasson (Uppsala University, Sweden)
16:25-16:30	BPS02-06	**Effect of resilience-related life experiences on variability in longitudinal change of cerebral metabolism in dominantly inherited Alzheimer's disease** Hye Joo Son (Dankook University College of Medicine, Korea)
16:30-16:35	BPS02-07	**Influence of EEG electrodes on PET images** Magdalena Ponce de León (Medical University of Vienna, Austria)
16:35-16:40	BPS02-08	**Relative CBF changes in parkinonian disorders based on 11C-PE2I PET** Mark Lubberink (Uppsala University, Sweden)
16:40-16:45	BPS02-09	**A Data-driven approach for generating class-separating VOI templates in brain PET imaging** Linus Falk (Uppsala University, Sweden)

16:45-16:50 BPS02-10 **Inflammatory profile in LRRK2-associated prodromal and clinical PD: A cross-sectional study**
Cheng-cheng Fan (Xuanwu Hospital, Capital medical university, China: CAS)

16:50-16:55 BPS02-11 **[11C]PiB brain retention is not affected by antibody binding to amyloid-beta**
Stina Syvänen (Uppsala University, Sweden)

16:55-17:00 BPS02-12 **Peripheral inflammation is associated with reduced influx of TSPO PET tracers into the brain**
Leonardo Barzon (University of Padova, Padova, Italy)

17:00-17:05 BPS02-13 **Striatal beta-amyloid chronicity explains variability in regional FDG hypometabolism in the Down syndrome population**
Max McLachlan (University of Wisconsin - Madison, USA)

17:05-17:10 BPS02-14 **Understanding the relationship between synaptic density and dopamine transporter availability in parkinson's disease**
Tommaso Volpi (Yale University, USA)

17:10-17:15 BPS02-15 **In vivo quantification of NMDA-GluN2B receptor occupancy by ifenprodil in nonhuman primates using (S)-[18F]OF-NB1 PET**
Nakul R. Raval (Yale University, USA)

17:15-17:20 BPS02-16 **Noradrenaline transporter availability and neuronal resting state network connectivity in human binge-eating disorder and obesity**
Swen Hesse (Leipzig University Medical Center, Germany)

16:00-17:30 **BS03** Grand ballroom 102

Pathology 2: Neuroinflammation and Immune Responses 1

Chairs Prof. Peiying Li (Renji Hospital, Shanghai Jiaotong University School of Medicine, China: CAS)
Rachel Jones (University of Manchester, UK)

16:00-16:15 BS03-01 **Sema4d-Plxnb2 signaling regulate microglia metabolism and promote neuroinflammation after ischemic stroke**
Yunlu Guo (Renji Hospital, Shanghai Jiao Tong University School of Medicine, China: CAS)

16:15-16:30 BS03-02 **Endothelial-leukocyte interaction during neurotoxicity associated with CAR T cell therapy**
Lina Park (Seattle Children's Research Institute, USA)

16:30-16:45 BS03-03 **The role of Interleukin-6 in post stroke cognitive decline**
Natasha Carmichael (University of Manchester, UK)

16:45-17:00 BS03-04 **Investigating the role of thromboinflammation in post-stroke cognitive decline**
Rachel Jones (University of Manchester, UK)

17:00-17:15 BS03-05 **Blood-based metabolic biomarkers of post-stroke cognitive decline**
Harry Deijnen (University of Manchester, UK)

17:15-17:30 BS03-06 **Preeclampsia and eclampsia induce neuroinflammation in humans and altered cerebral signaling pathways in a rat model of preeclampsia**
Valentina Bucher (Sahlgrenska Academy, University of Gothenburg, Sweden)

16:00-17:30 **SY03** Grand ballroom 103

Non-invasive Assessment of Cerebral Blood Flow and Oxygen Metabolism: Rationale and Latest Developments

Chairs Prof. Turgut Durduran (ICFO-The Institute of Photonic Sciences, Spain)
Dr. Stefan Carp (Massachusetts General Hospital, USA)

16:00-16:20 SY03-01 **Principles of neurovascular regulation in health and disease**
Costantino Iadecola (Weill Cornell Medicine, USA)

16:20-16:40 SY03-02 **Monitoring of cerebral blood flow autoregulation with near-infrared spectroscopy**
Ken Brady (UT Houston McGovern School of Medicine, USA)

16:40-17:00 SY03-03 **Cerebral microvascular blood flow monitoring of patients undergoing extracorporeal membrane oxygenation with diffuse correlation techniques**
Regine Choe (University of Rochester, USA)

17:00-17:20 SY03-04 **Neurovascular coupling changes as a biomarker of cerebral health**
Jana Kainerstorfer (Carnegie Mellon University, USA)

17:30-19:00 **BS04** Grand ballroom 101

Pathology 3: Cerebral Hemorrhage and Neurovascular Dysfunction

Chairs Dr. Lauren Sansing (Yale School of Medicine, USA)
Dr. Maximilian Wiesmann (Radboud University Medical Center, Donders Institute for Brain, Cognition & Behaviour, Nijmegen, Netherlands)

17:30-17:45 BS04-01 **Impact of hypertension on cerebral small vessel disease: A post-mortem study of microvascular pathology from normal-appearing white matter into white matter hyperintensities**
Maximilian Wiesmann (Radboud University Medical Center, Donders Institute for Brain, Cognition & Behaviour, Nijmegen, Netherlands)

17:45-18:00 BS04-02 **Meninges-brain interaction modulates chronic kidney disease-induced neurovascular dysfunction and cognitive impairment**
Wan-Ru Chen (National Taiwan University College of Medicine, Taiwan)

18:00-18:15 BS04-03 **CH25H and 25HC modulate neuroinflammation and promote recovery after intracerebral haemorrhage**
Victor Tapia (University of Manchester, UK)

18:15-18:30 BS04-04 **TSPO-PET imaging shows that inflammation of the nervous tract is active in chronic-phase intracerebral hemorrhage**
Zhuyu Gao (Neurosurgery Research Institute, First Affiliated Hospital, Fujian Medical University, China: CAS)

18:30-18:45 BS04-05 **Bedside continuous cerebral perfusion monitoring in aneurysmal subarachnoid hemorrhage using diffuse correlation spectroscopy**
Stefan Carp (Massachusetts General Hospital, USA)

18:45-18:00 BS04-06 **Hemorrhage-induced phenotypic changes in-vitro are recapitulated in-vivo in experimental ICH and human brain following ICH**
Thomas A. Kent (Texas A&M Institute of BioSClences and Techology-Houston, USA)

17:30-19:00 **BS05** Grand ballroom 102

Physiology 1: Neurogliovascular Coupling

Chair Prof. Minah Suh (Sungkyunwan University, Korea)

17:30-17:45 BS05-01 **Microglia directly contact endothelial cells and pericytes through gaps between adjacent astrocyte endfeet**
Gary Morris (University of Tasmania, Australia)

17:45-18:00 BS05-02 **Harnessing theta-gamma coupled brainwaves using ultrasound for spinal astrocyte revitalization and sustained neuropathic pain relief**
Thuy Tien Phan (Institute of Basic Science, Korea)

18:00-18:15 BS05-03 **Multimodal identification of the mouse brain using simultaneous Ca2+ imaging and FMRI**
Francesca Mandino (Yale University School of Medicine, USA)

18:15-18:30 BS05-04 **Diversity of hemodynamic responses calculated from excitatory and inhibitory neuron activity in awake mice**
Alberto Vazquez (University of Pittsburgh, USA)

18:30-18:45 BS05-05 **Oligodendrocyte-derived laminin regulates blood-brain barrier integrity and CNS myelination**
Yao Yao (University of South Florida, USA)

18:45-18:00 BS05-06 **Type-1-to-type-2 transition of brain microvascular pericytes induced by cytokines and disease-associated proteins: Role in neuroinflammation and blood-brain barrier disruption**
Woong-Ki Kim (Tulane University, USA)

17:30-19:00 **SY04** Grand ballroom 103

Acute Brain Injury: Impact of Spreading Depolarization and Metabolism

Chair Dr. Karl Schoknecht (Leipzig University, Carl-Ludwig Institute of Physiology, Germany)

17:30-17:50 SY04-01 **Visualizing cellular bioenergetics in aging neurons through the lens of NADH dynamics**
Carlos Manlio Díaz García (University of Oklahoma Health Sciences Center, USA)

17:50-18:10 SY04-02 **Spreading depolarizations exhaust neuronal ATP in a model of cerebral ischemia**
Karl Schoknecht (Leipzig University, Carl-Ludwig Institute of Physiology, Germany)

18:10-18:30 SY04-03 **Paracrine signaling effects of adenosine and H+ in the wake of spreading depolarization**
Britta Lindquist (University of California, San Francisco, USA)

18:30-18:50 SY04-04 **Which brain oxygen responses to spreading depolarization are deleterious to brain tissue?**
Jens Dreier (Charité University Medicine Berlin, Germany)

08:00-09:30 **BS06** Grand ballroom 101

Biomarkers

Chairs Prof. Yasuomi Ouchi (Hamamatsu University School of Medicine, Japan)
Dr. Min Su Kang (Sunnybrook Research Institute, University of Toronto, Canada)

08:00-08:15 BS06-01 **In vivo analysis of the effect of P3-Alcβ neuropeptide on neuronal viability in AD mice**
Yasuomi Ouchi (Hamamatsu University School of Medicine, Japan)

08:15-08:30 BS06-02 **Molecular pathways underlying the relationship between plasma ptau and Alzheimer's disease pathology: An imaging-transcriptomic study**
Min Su Kang (Sunnybrook Research Institute, University of Toronto, Canada)

08:30-08:45 BS06-03 **Intracarotidal injection of human Dental Pulp Stem Cells contributes to enhanced brain neovascularisation and a faster neurological recovery after ischemic stroke**
Abraham Martin (Achucarro Basque Center for NeuroSCIence, Spain)

08:45-09:00 BS06-04 **Oxygen-glucose deprived peripheral blood mononuclear cells target hypoxic area after reperfusion via SDF-1**
Masahiro Hatakeyama (Brain Research Institute, Niigata University, Japan)

08:00-09:30 **BS07** Grand ballroom 102

Pathology 4: Neuroinflamation and Immune Responses 2

Chairs Dr. Wenlu Li (Zhejiang Chinese Medical University, China)
Dr. Susanne Van veluw (Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA)

08:00-08:15 BS07-01 **Clonal expansion of T cells in experimental stroke reveals reactivity to type 1 diabetes antigens**
Kristian Doyle (University of Arizona, USA)

08:15-08:30 BS07-02 **Integrin B5 -Osteopontin orchestrates microglia-macrophage interaction to impede protective scar formation in mice after stroke**
Jing Ye (Shanghai Jiao Tong University, China: CAS)

08:30-08:45 BS07-03 **Digital spatial profiling of perivascular inflammation in post-mortem human brain tissue with CAA**
Susanne Van veluw (Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA)

08:45-09:00 BS07-04 **Microglia-derived interleukin-1 alpha and interleukin-1 beta have distinct roles after experimental ischaemic stroke**
Alba Grayston (The University of Manchester, UK)

09:00-09:15 BS07-05 **In vivo mapping of specialized inflammatory niches in the brain microvasculature**
Hyun-Kyoung Lim (Seattle Children's Research Institute, USA)

09:15-09:30 BS07-06 **YTHDF2 alleviates chronic hypoperfusion induced-cognitive impairment via reducing cellular senescence and inflammation in microglia**
Weizhen Ye (Capital Medical University, China: CAS)

08:00-09:30 **SY05** Grand ballroom 103

CIRCA Consortium on Circadian Effects in Focal Cerebral Ischemia

Chairs Dr. Eng H. Lo (Massachusetts General Hospital, USA)
Prof. Carine Ali (Caen Normandy University Hospital, France)
Prof. Dong-Eog Kim (Dongguk University Ilsan Hospital, Korea)

08:00-08:20 SY05-01 **Introduction to CIRCA: Effects of circadian rhythm on tissue and behavioral responses after focal cerebral ischemia**
Eng H. Lo (Massachusetts General Hospital, USA)

08:20-08:40 SY05-02 **Vascular responses: Effects of circadian rhythm on blood flow, blood-brain barrier, and immune reactions after focal cerebral ischemia**
María Ángeles Moro (Centro Nacional de Investigaciones Cardiovasculares (CNIC), Spain)

08:40-09:00 SY05-03 **Molecular responses: Effects of circadian rhythm on spatial and single cell gene pathways after focal cerebral ischemia**
Yasin Eshraghi (Institute for Stroke and Dementia Research (ISD), University Hospital, LMU Munich, Germany)

09:00-09:20 SY05-04 **Metabolic responses: Effects of circadian rhythm on metabolomics, biomarkers and systemic biology after focal cerebral ischemia**
Giuseppe Pignataro (Division of Pharmacology, School of Medicine, University of Naples "Federico II", Italy)

09:30-10:30 **PS03** Grand ballroom 104-105

Poster Session 03

10:30-12:00 **BPSY02** Grand ballroom 101

Advances in AI Technologies and Instruments for Brain PET Imaging

Chair: Prof. Jae Sung Lee (Seoul National University College of Medicine, Korea)

10:30-10:50 BPSY02-01 **AI techniques for Alzheimer's neuroimaging**
Joyita Dutta (University of Massachusetts Amherst, USA)

10:50-11:10 BPSY02-02 **Revolutionizing neuroimaging in nuclear medicine through AI technology**
Kenji Hirata (Hokkaido University, Japan)

11:10-11:30 BPSY02-03 **AI meets long axial field of view PET: Unlocking new potential for brain imaging**
Kuangyu Shi (University of Bern, Switzerland)

11:30-11:50 BPSY02-04 **Brain dedicated high performance PET scanners and AI-powered brain PET quantification**
Jae Sung Lee (Seoul National University College of Medicine, Korea)

10:30-12:00 **BS08** Grand ballroom 102

Pathology 5: Cerebral Ischemia 2

Chairs: Prof. Ignacio Lizasoain (Institute for Health Research, 12 de Octubre Hospital (i+12), Spain)
Dr. Amy Gleichman (University of California - Los Angeles, USA)

10:30-10:45 BS08-01 **Targeting MALAT1 to enhance neurovascular protection, remodeling, and long-term functional recovery following ischemic stroke**
Ke-Jie Yin (University of Pittsburgh School of Medicine, USA)

10:45-11:00 BS08-02 **Neutrophils as key players in microvascular injury and failure in stroke**
Jeanne Droux (USZ, Switzerland)

11:00-11:15 BS08-03 **Overexpressed neuronal SIRT1 regulates long-term lifespan after ischemic stroke**
Hyung-Hwan Kim (Massachusetts General Hospital and Harvard Medical School, USA)

11:15-11:30 BS08-04 **Astrocyte-induced angiogenesis is a region-specific repair mechanism that differs between cortical and white matter stroke**
Amy Gleichman (University of California - Los Angeles, USA)

11:30-11:45 BS08-05 **Ischemic stroke triggers metabolic adaptations in central nervous system border-associated macrophages**
Jordi Pedragosa (IIBB-CSIC, Spain)

11:45-12:00 BS08-06 **The effect of sex on stroke outcomes and treatment efficacy in animal models of focal cerebral ischemia: A systematic review and meta-analysis**
Sarah McCann (Berlin Institute of Health at Charité – Universitätsmedizin Berlin, Germany)

10:30-12:00 **SY06** Grand ballroom 103

APOE Mechanisms Underlying Brain Health and Gut Microbiome Dysfunctions in AD

Chair: Prof. Fahmeed Hyder (Yale University, USA)

10:30-10:50 SY06-01 **Introduction**
Fahmeed Hyder (Yale University, USA)

10:50-11:10 SY06-02 **Tools to map vascular-metabolic deficits in relation to neuronal-astrocytic dysfunctions**
Peter Herman (Yale University, USA)

11:10-11:30 SY06-03 **Biological processes underlying brain inflammation induced by gut dysbiosis**
Ai-Ling Lin (University of Missouri, USA)

11:30-11:50 SY06-04 **Mechanisms of MTOR inhibition to restore brain health in neurodegeneration**
Mitzi Gonzales (Cedars-Sinai Medical Center, USA)

13:00-14:30 **BPS03** Grand ballroom 101

Neurodegeneration & Inflammation

Chairs: Dr. Young Hoon Ryu (College of Medicine, Yonsei University, Korea)
Dr. Julie Ottoy (Sunnybrook Research Institute, University of Toronto, Canada)

13:00-13:15 BPS03-01 **Performance of 18F-SynVesT-1 versus 18F-FDG in cognitive decline: Visual reads and quantification**
Charles Carron (KU Leuven, Belgium)

13:15-13:30 BPS03-02 **APOE4 carriage associated with higher off-target [F-18]MK6240 PET signal throughout meninges**
Andrew McVea (University of Wisconsin - Madison, USA)

13:30-13:45	BPS03-03	**Semi-quantitative approach for quantifying MAO-B activity using [^{11}C] L-deprenyl-D2 PET** Karolina Hedman (Uppsala University, Sweden)
13:45-14:00	BPS03-04	**Linking synaptic density and resting-state functional connectivity in Parkinson's disease: A [11C]UCB-J PET/fMRI study** Tommaso Volpi (Yale University, USA)
14:00-14:15	BPS03-05	**Longitudinal ^{18}F-SynVesT-1 synaptic density imaging in a tauopathy mice model** Takuya Toyonaga (Yale School of Medicine, USA)
14:15-14:30	BPS03-06	**Differential effects of grey and white matter TSPO-PET on tau pathology and cognition in Alzheimer's disease** Julie Ottoy (Sunnybrook Research Institute, University of Toronto, Canada)

13:00-14:30	**BS09**	Grand ballroom 102

Flash Presentation 2: New Frontiers in Stroke Research

	Chair	Cesar V Borlongan (University of South Florida Morsani College of Medicine, USA)
13:00-13:05	BS09-01	**Assessment of cerebral circulation time and prognostic prediction using blood flow analysis software in subarachnoid hemorrhage** Takeshi Hara (Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan)
13:05-13:10	BS09-02	**Stuctural and glymphatic changes from intracranial dural arteriovenous fistulas with reflux detected by diffusion imaging** Brandon Hall (McGill University, Canada)
13:10-13:15	BS09-03	**Morphological heterogeneity of CNS border-associated macrophages after photothrombotic stroke** Do-Gyun Kim (The Catholic University of Korea, Korea)
13:15-13:20	BS09-04	**IFN-γ-responsive microglia-derived extracellular vesicles aggravated neurofunctional deficits via MiR-199a-5p/SIRT1 axis after ischemic stroke in mice** Tongtong Xu (Shanghai Jiao Tong University, China: CAS)
13:20-13:25	BS09-05	**A harmonization pipeline for computed tomography perfusion maps from multiple sites** Pattarawut Charatpangoon (University of Calgary, Canada)

13:25-13:30	BS09-06	**Neutrophil related microvascular immunothrombosis in cerebral ischemic stroke** Yirong Cao (Renji Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China: CAS)
13:30-13:35	BS09-07	**Covid-19 reduces CBF by constricting pericytes and increases pericyte constriction during ischaemia** Silvia Anderle (UCL, UK)
13:35-13:40	BS09-08	**Imaging the temporal dynamics of blood-brain barrier dysfunction after ischemic stroke in rats** Naroa Mocha-Muñoz (Achucarro Basque Center for NeuroSCIence, Spain)
13:40-13:45	BS09-09	**Sensitivity of DSC perfusion MRI to microvascular no-reflow after ischemic stroke: a biophysical modelling approach** Bart Franx (University Medical Center Utrecht, Netherlands)
13:45-13:50	BS09-10	**B cell depletion reduces chronic cognitive deficits but increases infarct volume after prefrontal stroke** Katherine Cotter (University Of Kentucky, USA)
13:50-13:55	BS09-11	**Gene escape from X chromosome inactivation contributes to sex differences in stroke** Fudong Liu (The University of Texas Health Science Center at Houston, USA)
13:55-14:00	BS09-12	**Hybrid electro-optical stimulation promotes glymphatic function and reduces ischemic brain damage** Min Jae Kim (School of Korean Medicine, Pusan National University, Korea)
14:00-14:05	BS09-13	**The role of epigenetic regulator BRD4 in global cerebral ischemia-induced neuroinflammation** Jee-Yeon Hwang (Creighton University School of Medicine, USA)
14:05-14:10	BS09-14	**Impaired cerebrovascular and oxygen metabolic response to moderate cerebral hypoxic exposure in patients with multiple sclerosis** Mark Bitsch Vestergaard (Copenhagen University Hospital - Rigshospitalet, Denmark)
14:10-14:15	BS09-15	**Establishing a pipeline to characterise the immune landscape and pathway activation response in a multi-site longitudinal clinical study of post stroke cognitive decline** Harry Deijnen (University of Manchester, UK)
14:15-14:20	BS09-16	**In vivo hypoxia promotes recovery after SCI, alters T cell populations, and modulates mitochondrial energetics** Daimen Britsch (University of Kentucky, USA)

14:20-14:25 BS09-17 **Clopidogrel administration impairs neurovascular unit recovery and exacerbates amyloid beta accumulation in aged mice post-stroke**
Rebecca Hood (School of Biomedicine, University of Adelaide, Australia)

13:00-14:30 **SY07** Grand ballroom 103

Leveraging Glia to Improve CNS Repair

Chair Prof. Elena Blanco-Suarez (Thomas Jefferson University, USA)

13:00-13:20 SY07-01 **Lesion-remote astrocytes govern microglia-mediated white matter repair**
Sarah McCallum (Cedars-Sinai Medical Center, USA)

13:20-13:40 SY07-02 **Astrocyte-mediated plasticity to improve recovery from stroke**
Elena Blanco-Suarez (Thomas Jefferson University, USA)

13:40-14:00 SY07-03 **Impact of microglia-astrocyte communication on neuronal function, and survival**
Brian A. MacVicar (University of British Columbia, Canada)

14:00-14:20 SY07-04 **Molecular alterations of the astrocyte-vasculature interactions in dementia**
Blanca Díaz Castro (UK Dementia Research Institute at the University of Edinburgh, UK)

14:30-15:30 **PS04** Grand ballroom 104-105

Poster Session 04

15:30-17:00 **BS10** Grand ballroom 101

Physiology 2: Mechanisms of Cerebrovascular Reactivity

Chairs Prof. Kazuto Masamoto (University of Electro-Communications, Tokyo, Japan)
Dr. Sharon Negri (University of Oklahoma Health Science Center, USA)

15:30-15:45 BS10-01 **The Alpha Actin Isotype 2 Gene (ACTA2) mutation mouse simulates human cerebrovascular disease**
Takahiko Imai (Massachusetts General Hospital, USA)

15:45-16:00 BS10-02 **Estrogen limits hippocampal arteriole constriction predominantly by enhancing endothelial SK channel activity over canonical nitric oxide release**
Fabrice Dabertrand (University of Colorado Anschutz Medical Campus, USA)

16:00-16:15 BS10-03 **TRPC3 channel drives brain pericyte depolarization to mediate pressure-induced constriction in the arteriole-capillary transition zone**
Hannah Ferris (University of Colorado, Anschutz Medical Campus, USA)

16:15-16:30 BS10-04 **Longitudinal in vivo imaging reveals dynamic mitochondrial changes in brain endothelial cells with aging**
Sharon Negri (University of Oklahoma Health Science Center, USA)

16:30-16:45 BS10-05 **Chemogenetic modulation of pericytes reveals robust and fragile features of brain capillary perfusion**
Andy Shih (Seattle Children's Research Institute, USA)

16:45-17:00 BS10-06 **Time-restricted feeding improves mitochondrial metabolism and vascular dysfunction in the aging brain**
Madison Milan (University of Oklahoma Health Science Center, USA)

15:30-17:00 **JCBFM** Grand ballroom 102

JCBFM Symposium

Chairs Prof. Jun Chen (University of Pittsburgh, USA)
Prof. María Ángeles Moro (Centro Nacional de Investigaciones Cardiovasculares (CNIC), Spain)

15:30-15:35 JCBFM-01 **Overall Plan for Special Issues 2025 and 2026**
Jun Chen (University of Pittsburgh, USA)

15:35-15:49 JCBFM-02 **Immunology of nervous system disorders**
Sunghee Cho (Weill Cornell Medicine, USA)

15:49-16:03 JCBFM-03 **Brain/Brain ^{PET} 2025 Conference Special Issue**
Peter Herscovitch (NIH PET Department, USA)

16:03-16:17 JCBFM-04 **OMICS of stroke and nervous system disorders: quality control of tissue sampling**
Thaddeus Nowak (University of Tennessee School of Medicine, USA)

16:17-16:31 JCBFM-05 **Pre- and clinical studies of Intracerebral hemorrhage**
Jaroslaw Aronowski (University of Texas at Houston, USA)

16:31-16:45 JCBFM-06 **Advances in nervous system imaging**
Rick Dijkhuizen (University Medical Center Utrecht/Utrecht University, Netherlands)

16:45-16:59 JCBFM-07 **Advances in small vessel disease research**
Johannes Boltze (University of Warwick, UK)

15:30-17:00 **SY08** Grand ballroom 103

Brain Clearance in CAA: From the Micro to the Macroscale

Chair Dr. Susanne Van Veluw (Massachusetts General Hospital, USA)

15:30-15:50 SY08-01 **Exploring the role of perivascular brain clearance in CAA**
Beth Eyre (Massachusetts General Hospital / Harvard Medical School, USA)

15:50-16:10 SY08-02 **Perivascular fibroblasts: Possible regulators of arteriole dynamics and homeostasis revealed by in vivo imaging and ultrastructural studies**
Stephanie Bonney (University of Colorado, USA)

16:10-16:30 SY08-03 **Brain waste clearance by meningeal lymphatics and the blood-brain barrier**
Steffen Storck (Washington University in St. Louis School of Medicine, USA)

16:30-16:50 SY08-04 **Imaging CSF-mobility in the human brain: Relevance for brain clearance and CAA**
Nina Fultz (Leiden University Medical Center, Netherlands)

17:00-18:30 **BS11** Grand ballroom 101

Techniques

Chairs Prof. Frédéric Lesage (Ecole Polytechnique Montreal, Canada)
Dr. Stefano Fumagalli (Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Italy)

17:00-17:15 BS11-01 **A segmentation-free 3D energy budget atlas to explore patterns of structure-function coupling in the human brain**
Brian Chang (Yale University, USA)

17:15-17:30 BS11-02 **Non-invasive functional ultrasound imaging uncovers age-related cerebrovascular dysfunction in mice**
Sharon Negri (University of Oklahoma Health Science Center, USA)

17:30-17:45 BS11-03 **Multi-limb optogenetic motor mapping with unsupervised classification reveals topographic organization of ethological behaviors on the cortex**
Nischal Khanal (Washington University in St. Louis, USA)

17:45-18:00 BS11-04 **Magnetic resonance-based molecular and diffusion-weighted imaging to track pathological microvascular events in ischemic stroke model**
Stefano Fumagalli (Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Italy)

18:00-18:15 BS11-05 **Charting microvascular network-level stroke responses in the cortex using bessel-beam optical coherence microscopy**
Lukas Glandorf (University of Zurich, Switzerland)

18:15-18:30 BS11-06 **Early detection of brain injury using optical brain pulse monitoring following cardiac arrest**
Elliot Teo (St Vincent's Hosptial Melbourne, Victoria, Australia)

17:00-18:30 **BS12** Grand ballroom 102

Physiology 3: Plasticity, Development, and Disease

Chairs Dr. Jerome Badaut (CNRS, France)
Dr. Charith Perera (University College London, UK)

17:00-17:15 BS12-01 **Vascular plasticity allows microvascular recanalization in a rodent model of silent brain infarcts**
Kevin Mol (Amsterdam University Medical Center, Netherlands)

17:15-17:30 BS12-02 **Non-invasive imaging of choroid plexus blood volume and microstructure using FLAIR-IVIM DW-MRI**
Charith Perera (University College London, UK)

17:30-17:45 BS12-03 **The interplay between white matter hyperintensities, choroid plexus, and the antioxidant system in healthy aging**
Flavie E. Detcheverry (Institut de génie biomédical, Université de Montréal, Canada)

17:45-18:00 BS12-04 **Challenging the classical view on CSF circulation: measuring CSF net velocity in human subarachnoid space with 7T MRI**
Ellen van Hulst (University Medical Center Utrecht, Netherlands)

18:00-18:15 BS12-05 **Early human embryonic brain vascular development promotes neurogenesis**
Yangqianbo Yao (Shanghai Jiao Tong University, China: CAS)

17:00-18:30 **SY09** Grand ballroom 103

From BOLD to Beyond: Exploring Brain Function in Preclinical fMRI

Chair Dr. Francesca Mandino (Yale University, USA)

17:00-17:20 SY09-01 **Harmonizing quasi-periodic patterns in mice via simultaneous fMRI and wide-field Ca2+ imaging**
Francesca Mandino (Yale University, USA)

Day 3: Tuesday, June 3

17:20-17:40	SY09-02	**Chemogenetic decoding of functional brain connectivity** David Sastre (Istituto italiano di tecnologia (IIT), Italy)
17:40-18:00	SY09-03	**Mouse fMRI with optogenetic silencing** Seong-Gi Kim (Sungkyunkwan University and Institute for Basic Science, Korea)
18:00-18:20	SY09-04	**SORDINO fMRI in awake behaving mice** Yen-Yu Ian Shih (University of North Carolina at Chapel Hill, USA)

Day 4: Wednesday, June 4

08:00-09:00 **NLA** Grand ballroom 103

Niels Lassen Award

Chairs Prof. Hélène Girouard (Université de Montréal, Canada)
Prof. Giuseppe Pignataro (Federico II University of Naples, Italy)
Prof. Jae Seung Kim (Asan Medical Center, University of Ulsan College of Medicine, Korea)

08:00-08:12	NLA-01	**Astrocyte subtypes regulate stiffness of glial scar via piezos after stroke** Shengju Wu (Shanghai JiaoTong University, China: CAS)
08:12-08:24	NLA-02	**Ripk2 genetic deficiency is neuroprotective in aged mice following ischemic stroke** John Howell (University of Florida, USA)
08:24-08:36	NLA-03	**Quantifying molecular blood-brain barrier permeability and cerebral blood flow with single-tracer high-temporal resolution dynamic PET** Kevin Chung (University of California, Davis, USA)
08:45-08:48	NLA-04	**Synergistic effects of aging and high-fat diet induced obesity on brain senescence and neurovascular function** Sharon Negri (University of Oklahoma Health Science Center, USA)
08:48-09:00		**Awards**

09:00-10:00 **PL** Grand ballroom 103

Plenary Lecture

Chairs Yong Jeong (Korea Advanced Institute of Science and Technology (KAIST), Korea)
Yun Seon Song (Sookmyung Women's University, Korea)

Mapping and stimulation of the lymphatics for enhancing cerebrospinal fluid outflow
Gou Young Koh (Director of Center for Vascular Research, IBS, Korea)

10:00-11:00 **PS05** Grand ballroom 104-105

Poster Session 05

11:00-12:30 **BPSY03** Grand ballroom 101

Current Advances in Molecular Connectivity

Chair Dr. Sharna Jamadar (Monash University, Australia)

11:00-11:20 BPSY03-01 **Molecular connectivity and covariance: Temporal dynamics and methodological divergence**
Murray Reed (Medical University of Vienna, Austria)

11:20-11:40 BPSY03-02 **Tracer kinetics and single-subject PET kinetic connectivity: Methods and applications**
Tommaso Volpi (Yale University, USA)

11:40-12:00 BPSY03-03 **Brain connectivity in ageing: Comparison of FMRI functional connectivity and FDG-PET metabolic connectivity**
Sharna Jamadar (Monash University, Australia)

12:00-12:20 BPSY03-04 **Functional dynamics through a molecular lens: Imaging connectivity in preclinical models**
Kristina Herfert (Werner Siemens Imaging Center, University of Tuebingen, Germany)

11:00-12:30 **BS13** Grand ballroom 102

Physiology 4: Multi-Modal Approaches to Blood Flow & Metabolism

Chairs Prof. Pilhan Kim (Korea Advanced Institute of Science and Technology (KAIST), Korea)
Dr. Zainab Faik (University of Zurich, Switzerland)

11:00-11:15 BS13-01 **High middle cerebral artery wall shear stress in branch atheromatous disease: A computational fluid dynamics analysis**
Akimasa Yamamoto (National Cerebral and Cardiovascular Center, Japan)

11:15-11:30 BS13-02 **Cerebral vascular pulsatility is altered by hypercapnic stimuli: A BOLD FMRI study**
Hans Christian Rundfeldt (University Medical Center Utrecht, Utrecht, Netherlands)

11:30-11:45 BS13-03 **High-density diffuse optical tomography for monitoring spatial variability of cerebral oxygenation in pediatric ECMO patients**
Sung Min Park (Washington University School of Medicine, USA)

11:45-12:00 BS13-04 **Severe decrease in CBF during short-term simulated microgravity: A high-frequency MRI study**
Yawen Liu (Beijing Friendship Hospital, Capital Medical University, China: CAS)

12:00-12:15 BS13-05 **Uncovering cell-specific characteristics in white matter energy metabolism using two-photon functional imaging**
Zainab Faik (University of Zurich, Switzerland)

12:15-12:30 BS13-06 **Astrocytes contribute to signals of hyperpolarized 13C pyruvate in the brain**
Yuhei Takado (National Institutes for Quantum Science and Technology, Japan)

11:00-12:30 **SY10** Grand ballroom 103

Brain Cleanup by Microglia/Macrophages in Cerebrovascular Diseases and Dementia as Key Mechanism for Repair and Recovery

Chair Prof. Jaroslaw (Jarek) Aronowski (University of Texas Health Science Center Houston, USA)

11:00-11:20 SY10-01 **Microglial phagocytosis regulates Alzheimer's disease progression: Role of aryl hydrocarbon receptor**
Maria Isabel Cuartero (Universidad Complutense de Madrid (UCM), Spain)

11:20-11:40 SY10-02 **Metabolic reprogramming of macrophages as a key mechanism for erythrophagocytosis after intracerebral hemorrhage**
Lauren Sansing (Yale University School of Medicine, USA)

11:40-12:00 SY10-03 **Remote ischemic conditioning attenuates transneuronal degeneration and promotes stroke recovery via CD36-mediated efferocytosis**
Hyunwoo Ju (Burke Neurological Institute, Weill Cornell Medicine, USA)

12:00-12:20 SY10-04 **Identification of C-type lectin receptors-induced signal transduction in myeloid cells represents new essential mechanism for brain cleanup and functional recovery after stroke**
Jaroslaw (Jarek) Aronowski (University of Texas Health Science Center Houston, USA)

13:30-15:00 **BPS04** Grand ballroom 101

Metabolism, Blood Flow & other Imaging

Chairs Prof. David Elmenhorst (Forschungszentrum Jülich, Germany)
Dr. Graham Deller (Lawson Health Research Institute, Canada)

13:30-13:45 BPS04-01 **Rapid dynamics of brain glucose metabolism assessed with [^{18}F]FDG**
Pia Falb (Medical University of Vienna, Austria)

13:45-14:00 BPS04-02 **Early metabolic changes in the brain of Alzheimer's disease rats are driven by GLAST+ cells**
William Morrey (University of Manchester, UK)

14:00-14:15 BPS04-03 **Glucose metabolism rate relates to mitochondrial density in human cerebral cortex**
Matej Murgaš (Medical University of Vienna, Austria)

14:15-14:30 BPS04-04 **A novel PET/MRI method for imaging cerebral metabolic rate of oxygen in humans**
Graham Deller (Lawson Health Research Institute, Canada)

14:30-14:45 BPS04-05 **Metabolic connectivity from dynamic [18F]FDG PET reveals task-evoked brain network architecture**
Giulia Vallini (University of Padova, Italy)

14:45-15:00 BPS04-06 **Lower synaptic density in adults with alcohol Use disorder: Quantification with [11C]UCB-J PET**
Nakul R. Raval (Yale University, USA)

13:30-15:00 **BS14** Grand ballroom 102

Flash Presentation 3: Modulation of the Neuro-Immune-Vascular Unit in Health and Diseases

Chair Prof. María Ángeles Moro (Centro Nacional de Investigaciones Cardiovasculares (CNIC), Spain)

13:30-13:35 BS14-01 **Simultaneous WF-Ca2+ and BOLD-fMRI reveals modality-specific and sex-based differences in prodromal Alzheimer's disease**
Francesca Mandino (Yale University School of Medicine, USA)

13:35-13:40 BS14-02 **Caloric restriction preserves BBB integrity after transient focal cerebral ischemia through reducing neutrophil infiltration**
Chenran Wang (Fudan University, China: CAS)

13:40-13:45 BS14-03 **Alcohol and e-cigarette induce release of extracellular vesicles and their plasminogen urokinase content injuring BBB**
Yuri Persidsky (Temple University School of Medicine, USA)

13:45-13:50 BS14-04 **RNF213-mediated autophagy impairment and endothelial dysfunction under inflammatory and metabolic stress conditions**
Seo Jeong Eun (Ajou University Graduate School of Medicine, Korea)

13:50-13:55 BS14-05 **Endothelial dysfunction in the Dp16 down syndrome mouse model**
Abigail Russell (University of Colorado Anschutz Medical Campus, USA)

13:55-14:00 BS14-06 **Exposure to new generation of eternal pollutant induces neuroinflammation and behaviour alterations in vertebrates**
Jérôme Badaut (Centre d'Études Biologiques de Chizé, Université de La Rochelle, France)

14:00-14:05 BS14-07 **Fibrin(ogen) accelerates inflammatory-mediated vascular remodeling in a mouse model of cerebral amyloid angiopathy**
S. Eugene Kim (Massachusetts General Hospital, Harvard Medical School, USA)

14:05-14:10 BS14-08 **Neuropil distributions in the human brain predict resting-state functional networks**
Brian Chang (Yale University, USA)

14:10-14:15 BS14-09 **Evolution of spatiotemporal cortical dynamics in mice learning operant motor tasks**
Evan Morris (Washington University in St. Louis, USA)

14:15-14:20 BS14-10 **Spatio-temporal imbalance of red blood cell occupancy in cerebral capillaries of venous proximity under moderate dehydration**
Hiroki Suzuki (Graduate School of Informatics and Engineering, University of Electro-Communications, Japan)

14:20-14:25 BS14-11 **Brain collection procedures in metabolomic studies – Reestablishing standards**
Thaddeus S. Nowak, Jr. (University of Tennessee Health Science Center, USA)

14:25-14:30 BS14-12 **Mitochondrial (dys)function of brain capillaries in aging and oxidative stress: Role of mitochondrial transfer**
Brad Hubbard (University of Kentucky, USA)

14:30-14:35 BS14-13 **Intra- and extra-cranial lymphatics for cerebrospinal fluid drainage**
Jin-Hui Yoon (Institute for basic SCIence, Korea)

14:35-14:40 BS14-14 **Non-invasive tracking of calcium dynamics at the choroid plexus with manganese-enhanced MRI**
Charith Perera (University College London, UK)

14:40-14:45 BS14-15 **Data-driven segmentation and dynamic contrast analysis of choroid plexus and adjacent regions using manganese-enhanced SORDINO MRI**
Sung-Ho Lee (University of North Carolina at Chapel Hill, USA)

14:45-14:50 BS14-16 **Low frequency fourth ventricle cerebrospinal fluid inflow and vascular reactivity in CAA**
Thijs van Harten (Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA)

14:50-14:55 BS14-17 **Role of the wiskott-aldrich syndrome protein (WASp) in microglia phagocytic functions during neurodevelopment**
Serena Seminara (Istituto di Ricerche Farmacologiche Mario Negri, Italy)

14:55-15:00 BS14-18 **Longitudinal intravital imaging of neurovascular unit and blood flow alterations following cerebral microinfarction**
Jieun Choi (KAIST, Korea)

13:30-15:00 **SY11** Grand ballroom 103

Neurovascular Dysfunction in Vascular Dementia: An Update and Perspectives

Chair Dr. Sébastien Foulquier (Maastricht University, Netherlands)

13:30-13:50 SY11-01 **Neurovascular coupling in hypertension**
Hélène Girouard (Université de Montréal, Canada)

13:50-14:10 SY11-02 **Neurovascular dysfunction in heart failure with preserved ejection fraction**
Sébastien Foulquier (Maastricht University, Netherlands)

14:10-14:30 SY11-03 **The contribution of pericytes to neurovascular function and brain health: Implications for vascular dementia**
Brad Sutherland (University of Tasmania, Australia)

14:30-14:50 SY11-04 **Implication of BBB dysfunction in the pathogenesis of cerebral small vessel disease**
Claire Peghaire (Université de Bordeaux, France)

15:00-16:00 **PS06** Grand ballroom 104-105

Poster Session 06

16:00-17:30 **BS15** Grand ballroom 101

Pathology 6: Alzheimer's Disease and Vascular Dementia

Chairs Dr. Wenlu Li (Zhejiang Chinese Medical University, China: CAS)
Prof. Bistra Iordanova (University of Pittsburgh, USA)

16:00-16:15 BS15-01 **Astrocytic MEGF10-mediated myelin phagocytosis induces white matter injury via promoting astrogliosis after chronic cerebral hypoperfusion**
Tongtong Xu (Shanghai Jiao Tong University, China: CAS)

16:15-16:30 BS15-02 **Loss of glymphatic homeostasis in heart failure**
Marios Kritsilis (Lund University, Sweden)

16:30-16:45 BS15-03 **Linking functional trajectories of cerebrovascular dysfunction to the vessel transcriptome in preclinical models of dementia**
Bistra Iordanova (University of Pittsburgh, USA)

16:45-17:00 BS15-04 **Cerebral perfusion in Alzheimer's disease: Insights from early-phase [18F]-MK6240 PET imaging**
Maeva Dhaynaut (Yale PET Center, Yale University School of Medicine, USA)

17:00-17:15 BS15-05 **ApoE4 genotype exaggerates dementia pathology by promoting peripheral lipoprotein-amyloid pathways**
Ryu Takechi (Curtin University, Australia)

16:00-17:30 **BS16** Grand ballroom 102

Therapies

Chairs Dr. Dan Huang (Renji Hospital, School of Medicine,Shanghai Jiaotong University, China: CAS)
Dr. Jeongryul Ryu (Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea)

16:00-16:15 BS16-01 **Mitochondrial calcium uniporter is associated with ischemic postconditioning and sodium glucose cotransporter inhibitor prevents ischemic reperfusion injury**
Tomoya Okamoto (Nara medical university, Japan)

16:15-16:30 BS16-02 **Brain-infiltrating ILC2s-derived alpha-CGRP promoting angiogenic sprouting accelerates post-stroke angiogenesis**
An Ping (Zhejiang University, China: CAS)

16:30-16:45 BS16-03 **Skeletal muscle-derived exercise migrasomes ameliorate neuronal mitochondrial dysfunction**
Yuxin Liu (the Third Affiliated Hospital of Sun Yat-sen University, China: CAS)

16:45-17:00 BS16-04 **Sex-specific effects of IL-1R1 blockade on perihaematomal oedema in a rat model of intracerebral haemorrhage**
Mary Newland (University of Manchester, UK)

17:00-17:15 BS16-05 **Chronic adenosine A1 receptor antagonist promotes neurogenesis and improves outcome after cerebral ischemia**
Maria Ardaya (Achucarro Basque Center for NeuroSClence, Spain)

17:15-17:30 BS16-06 **Effect of MTOR inhibition on longitudinal brain glucose metabolism in patients with liver transplantation**
Jeongryul Ryu (Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea)

16:00-17:30 **SY12** Grand ballroom 103

Cerebral Blood Flow and Partial Pressure of Oxygen (pO2) in the brain: From Cortex to Hippocampus

Chair Dr. Mohamad El Amki (University Hospital of Zurich, Switzerland)

16:00-16:20 SY12-01 **Imaging microvascular oxygen delivery in the white matter and watershed territory**
Sava Sakadzic (Athinuola A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, USA)

16:20-16:40 SY12-02 **Oxygen availability in the brain. When and where could it limit brain function?**
Catherine Hall (University of Sussex, UK)

16:40-17:00 SY12-03 **Microvascular inflammation and altered neutrophil reactivity in an AD mouse model**
Oliver Bracko (University of Miami, USA)

17:00-17:20 SY12-04 **Capillary remodeling and tissue oxygenation in the cortex and hippocampus following targeted microvascular insults**
Bruno Weber (University of Zurich, Switzerland)

17:30-18:30 Closing Grand ballroom 103

Closing Ceremony

BRAIN & BRAIN PET 2025

POSTER PRESENTATION

Monday, June 2, 2025

- SET-UP: June 2, 07:00 - 09:00 AM
- PRESENTATION:
  - PS01: June 2 (Mon), 10:00 - 11:00 AM
  - PS02: June 2 (Mon), 15:00 - 16:00 PM
  * Poster presenters should be present at your poster at the above time.
- REMOVAL: June 2, 17:00 - 18:30 PM
  * Any posters remaining after 18:30 PM will be removed and discarded by the staff.

PS01

BOARD NO.	TOPIC	PAGE
A-01 - E-03, L-10	Pathology	088 - 090
E-05 - G-05	Physiology	090 - 092
G-07 - H-13, I-13	Therapies and Biomarkers	092 - 093
I-01 - I-11, J-01 - L-11	Brain PET	093 - 095

PS02

BOARD NO.	TOPIC	PAGE
A-02 - E-04	Pathology	095 - 097
E-06 - G-04	Physiology	098 - 099
G-06 - H-14, I-12 – I-14, J-14	Therapies and Biomarkers	099 - 100
I-02 - I-10, J-02 - L-10	Brain PET	100 - 102

10:00-11:00 **PS01** **Pathology**

Chairs Dr. Sébastien Foulquier (Maastricht University, Netherlands)
Prof. Hahn Young Kim (Konkuk University Hospital, Korea)
Prof. Ignacio Lizasoain (Institute for Health Research, 12 de Octubre Hospital (i+12), Spain)

PS01-A-01 **Three-dimensional B-amyloid burden correlation between the eye and brain in Alzheimer's disease mice using light-sheet fluorescence microscopy**
Hye Joo Son (Dankook University, Colledge of Medicine, Korea)

PS01-A-03 **Photostimulation of brain drainage and cognitive functions in mice of different ages**
Andrey Terskov (Saratov State University, Russian Federation)

PS01-A-05 **The association between renal function and cerebral small vessel disease imaging markers with modifying effects of diet inflammatory index**
Xiaowei Sun (Renji Hospital, Shanghai Jiao Tong University School of Medicine, China: CAS)

PS01-A-07 **The aging vasculature in hippocampus**
Signe H. Mikkelsen (Center of Functionally Integrative NeuroSCIence, Aarhus University, Aarhus, Denmark)

PS01-A-09 **Lifespan diffusion MRI after single juvenile concussion results in progressive-long-term brain perturbations and cognitive deficits**
Andre Obenaus (University of California Riverside, USA)

PS01-A-11 **The role of P-selectin in sickle cell disease related cerebrovascular complications in a murine model**
Jahnavi Gollamudi (University of Cincinnati, USA)

PS01-A-13 **Brain network analysis in Alzheimer's disease and mild cognitive impairment using high-density diffuse optical tomography**
Emilia Butters (University of Cambridge, UK)

PS01-B-01 **Visceral adiposity contributes to dysregulated iron metabolism and myelination in the aged brain**
Eun-Mi Lee (Ewha Womans University College of Medicine, Korea)

PS01-B-03 **Exploring the role of vasomotion in promoting perivascular brain clearance in cerebral amyloid angiopathy**
Orla Bonnar (Massachusetts General Hospital / Harvard Medical School, Boston, USA)

PS01-B-05 **Deriving multi-modal MRI and fluid biomarker signatures of neurovascular health, fluid transport, and Alzheimer's disease**
Lucy Vivash (Monash University, Australia)

PS01-B-07 **Multi-lumen vascular profiles: An understudied feature of CSVD is unveiled by in vivo multi-photon imaging**
Gokce Gurler (Seattle Children's Research Institute, Seattle, WA, USA)

PS01-B-09 **Age-dependent deficiency in UPRmt signaling leads to transitory insult-induced cognitive impairment**
Yizhe Zhang (Renji Hospital, School of Medicine, Shanghai Jiaotong University, China: CAS)

PS01-B-11 **CfDNA promotes myeloid-derived mif-mediated postoperative cognitive dysfunction via CCAS-STING signaling pathway**
Ling Cai (Shanghai Jiao Tong University School of Medicine, Renji Hospital, China: CAS)

PS01-B-13 **Il-13 attenuates cognitive impairment in vascular dementia by inhibiting pathological excessive phagocytosis of microglia/macrophages**
Yana Wang (Institute of Brain Science, Fudan University, China: CAS)

PS01-C-01 **Hypoxemia exerts detrimental effects on the rat brain: The role of hypoxia-related cytokine signaling**
Zoran Redzic (College of Medicine, Kuwait University, Kuwait)

PS01-C-03 **Microvascular occlusions and concomitant hyperperfusion acutely post-recanalization in a gyrencephalic model of acute ischemic stroke**
Meiqi Wang (Erasmus MC University Medical Center, Netherlands)

PS01-C-05 **SIN-1 improves cerebral blood flow and reduces deviation from physiological parenchymal homeostasis during ischemia and reperfusion in rats**
Coline L. Lemale (Charité Universitätsmedizin, Germany)

PS01-C-07 **Endogenous VASH2 inhibitory regulates ferroptosis after ischemic stroke**
Toru Yamashita (Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan)

PS01-C-09 **MEGF10-mediated astrogliosis impedes neurofunction recovery after stroke**
Jingjing Xu (Shanghai Jiao Tong University, China: CAS)

PS01-C-11 **Irisin increases microglia-derived migrasomes to facilitate neurological repair after stroke**
Danli Lu (The Third Affiliated Hospital of Sun Yat-sen University, China: CAS)

PS01-C-13 **Acute outcomes in NOSi-mediated large artery ischemic stroke model (NAIM): Inactive-phase onset vs. Active-phase onset**
Taehoon Kim (Dongguk University Ilsan Hospotal, Goyang, Korea)

PS01-D-01 **Ultrastructural analysis of scar-forming PDGFR-β+ fibroblasts and infiltrating macrophages after photothrombotic stroke**
Ji-Won Hwang (The Catholic University of Korea, Korea)

PS01-D-03 **A novel exercise metabolite mitigates blood-brain barrier dysfunction after brain ischemia**
Ifechukwude Biose (Louisiana State University Health Sciences Center New Orleans, USA)

PS01-D-05 **Insular cortex glutamatergic neurons regulate BM neutrophil mobilization and aggravate post - stroke immune suppression via the NE/Adrb2 axis after ischemic stroke**
Wanqing Xie (Renji Hospital, Shanghai Jiao Tong University School of Medicine, China: CAS)

PS01-D-07 **Characterizing the epichaperome in ischemic stroke**
John Howell (University of Florida, USA)

PS01-D-09 **Sustaining microglial reparative function enhances stroke recovery**
Jun Tsuyama (Institute of Science Tokyo, Japan)

PS01-D-11 **Aacute neutrophil count changes in the NOSi-mediated large artery ischemic stroke model (NAIM)**
Leesu Lee (Dongguk University, Goyang, Korea)

PS01-D-13 **KCl-induced spreading ischemia on stroke outcomes in NOSi-mediated large artery ischemic stroke model (NAIM) mice**
Kyusun Han (Dongguk University, Korea)

PS01-E-01 **HDAC3 inhibitor RGFP966 improves recovery after traumatic brain injury via promoting anti-inflammatory microglia/macrophage responses**
Caixia Chen (University of Pittsburgh, USA)

PS01-E-03 **The therapeutic potential of hexokinase 2 inhibition in regulating microglial activation and mitochondrial dysfunction following traumatic brain injury**
Hyun Ho Jung (Department of Physiology, Hallym University, College of Medicine, Chuncheon, Korea)

PS01-L-10 **The brain-body axis of white matter hyperintensities and Alzheimer's disease: Genetic and causal insights**
Flavie Detcheverry (Université de Montréal, Canada)

10:00-11:00 **PS01 Physiology**

Chairs Dr. Eng H. Lo (Massachusetts General Hospital, USA)
Prof. William J. Pearce (Loma Linda University School of Medicine, USA)

PS01-E-05 **Dynamics and characteristics of functional recovery promoted by mesenchymal stem cell transplantation in ischemic stroke model rats: Insights from longitudinal electrophysiological evaluation**
Takeshi Hara (Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan)

PS01-E-07 **The relationship between GLUT5 and oxidative stress in ischemic cerebral infarction**
Kazo Kanazawa (Juntendo University School of Medicine, Japan)

PS01-E-09 **Mitochondrial intercellular transfer via platelets exerts neuro-glial protection against cerebral ischemia**
Nobukazu Miyamoto (Juntendo University School of Medicine, Japan)

PS01-E-11 **Effects of exercise preconditioning on promoting endogenous recovery responses after ischemic stroke in middle-aged mice**
Norito Fukuda (University of Yamanashi, Japan)

PS01-E-13 **Tacr1 neurons mediate angiogenesis**
Jiwon Kim (University of Pittsburgh, USA)

PS01-F-01 **Generating a virtual population of cerebral arteries based on structural analysis**
Chi-Lung Fan (National Taiwan University, Taipei, Taiwan)

PS01-F-03 **Investigating physiological brain endothelial calcium responses in awake and active mice**
Sotaro Hirai (University of Calgary, Canada)

PS01-F-05 **The effect of locus coeruleus ablation on cerebral blood flow regulation and neurovascular coupling**
Saba Molhemi (Aarhus University, Denmark)

PS01-F-07 **Age-dependent effects of pulse pressure on physiological brain pulsations**
Lauri Raitamaa (University of Oulu, Finland)

PS01-F-09 **Assessing high-temporal-resolution FMRI sequence MREG for detecting cerebral arteries and blood pressure-induced hemodynamic changes**
Lauri Raitamaa (University of Oulu, Finland)

PS01-F-11 **Expanding pia-FLOW imaging from mapping the pial vascular connectome to the skull, meningeal vessels, and CSF circulation**
Hanna Preuss (University Hospital and University of Zurich, Switzerland)

PS01-F-13 **Estimating the effect of flow versus volume changes on near infrared spectroscopy derived metrics**
Cameron Smith (University of Cambridge, UK)

PS01-G-01 **Sexually dimorphic susceptibility to cerebrovascular, white matter, and cognitive alterations in aged ApoE4-TR mice**
Laibaik Park (Weill Cornell Medicine, USA)

PS01-G-03 **Sensory-evoked hemodynamics and the topology of blood vessels in the white matter below the neocortex**
Prakash Kara (University of Minnesota, USA)

PS01-G-05 **Investigating early cerebral microvascular changes in Alzheimer's disease using advanced preclinical imaging techniques**
Virginie Lam (Curtin University, Australia)

10:00-11:00 **PS01** **Therapies and Biomarkers**

Chairs Dr. Dan Huang (Renji Hospital, School of Medicine,Shanghai Jiaotong University, China: CAS)
Dr. Bojana Stefanovic (Sunnybrook Research Institute, Canada)

PS01-G-07 **Cannabinoid receptor 2 agonists alter immune responses and decrease neuroinflammation in HIV infected humanized mice**
Yuri Persidsky (Temple University School of Medicine, USA)

PS01-G-09 **FTO inhibits neuronal ferroptosis and ferritinophagy after TBI by regulating the m6a modification of NCOA4**
Chen Xingdong (No. 138, Yixueyuan Road, Xuhui District, Shanghai, China: CAS)

PS01-G-11 **Acute, not delayed, treatment of aflibercept promotes long-term stroke recovery in obese mice**
Il-doo Kim (Inha University, Korea)

PS01-G-13 **Multimodal investigation of NADPH oxidase inhibition in ischaemic stroke**
Melissa Trotman-Lucas (University of Nottingham, UK)

PS01-H-01 **Early infiltration of ischemia-conditioned regulatory T cells establishes an immune niche to inhibit netosis and alleviate acute blood-brain barrier damage after stroke**
Huaming Li (Second Affiliated Hospital of Zhejiang University, China: CAS)

PS01-H-03 **O-GlcNAcylation enhances the effectiveness of therapeutic mitochondrial transplantation**
Ji Hyun Park (Massachusetts General Hospital and Harvard Medical School, USA)

PS01-H-05 **Mitochondrial O-GlcNAcylation-mediated vascular protection after the traumatic brain injury**
Ji Hyun Park (Massachusetts General Hospital and Harvard Medical School, USA)

PS01-H-07 **Association between equol-producer status and cerebral small vessel disease in stroke patients**
Soya Iwamoto (National Cerebral and Cardiovascular Center, Japan)

PS01-H-09 **Evaluation of a mouse model showing subcortical infarcts with dementia**
Ricardo Satoshi Ota-Elliott (Okayama University, Japan)

PS01-H-11 **Development of polypeptide hydrogel microspheres to modulate immune microenvironment for enhancing angiogenesis in mice after stroke**
Lin Gan (Shanghai Jiao Tong University, China: CAS)

PS01-H-13 **Seryl-tRNA synthetase as novel target for stroke a proof-of-concept study**
Nicolas Blondeau (Université Côte d'Azur, CNRS UMR7275, INSERM U1323, France)

PS01-I-13 **Nitric oxide (NO)-related neurovascular protective effects of ginseng-derived gintonin in vitro**
Won-Kyung Hong (Goyang, Korea)

10:00-11:00 **PS01** **Brain PET**

Chairs Prof. Evan D Morris (Yale University, USA)
Prof. Hsiao-Ying Wey (MGH, Harvard Medical School, USA)

PS01-I-01 **Deep learning-enhanced low-count [18F]-florzolotau tau PET neuroimaging**
Hsin-Ta Lin (National Taiwan University, Taiwan)

PS01-I-03 **Digital phantom simulations for the validation of a pure deep learning-based PET partial volume correction method**
Yi-Shih Li (National Taiwan University, Taiwan)

PS01-I-05 **Navigating Alzheimer's: Harnessing multimodal learning models for disease classification through PET brain imaging integration**
Youjin Lee (Pusan National University, Korea)

PS01-I-07 **Harmonization using machine learning of brain FDG images from different generation scanners**
Muneyuki Sakata (Tokyo Metropolitan Institute for Geriatrics and Gerontology, Japan)

PS01-I-09 **Development and validation of AI based DAT images generation technique using early phase [^{18}F]FP-CIT PET imaging**
Changhwan Sung (Asan Medical Center, Korea)

PS01-I-11 **Prediction of brain PET images with serotonergic targeted candidate compounds towards PET tracer development**
Hiroto Chiba (Tohoku Univercity, Japan)

PS01-J-01 **Evaluation of data-based motion correction techniques for high-temporal-resolution functional PET**
Pia Falb (Medical University of Vienna, Austria)

PS01-J-03 **Region-based lassen plot filter for regional occupancy when there is no reference region**
Su Jin Kim (Yale University, USA)

PS01-J-05 **Towards whole-body models for non-invasive generation of the arterial input function from PET images**
Tommaso Volpi (Yale University, USA)

PS01-J-07 **"pRef-IFS": Towards a true image-derived input function for absolute quantification of PET data**
Tommaso Volpi (Yale University, USA)

PS01-J-09 **Carotid arteries at ultra-high resolution: Multi-tracer evaluation of image-derived blood input functions on the NeuroEXPLORER**
Tommaso Volpi (Yale University, USA)

PS01-J-11 **Evaluation of image-processing methods on biological relationships with tau burden for multisite 18F-Flortaucipir PET studies**
Davneet Minhas (University of Pittsburgh, USA)

PS01-J-13 **Perioperative cerebral blood flow changes in pediatric Moyamoya patients**
Moss Zhao (Stanford University, USA)

PS01-K-01 **Exercise effects on abnormal discordance between glucose metabolism and cerebral blood flow in Parkinson's disease**
Connor W. J. Bevington (University of British Columbia, Canada)

PS01-K-03 **Non-invasive measurement of cerebrovascular reactivity using 15O-water PET**
Elin Bäck (Uppsala University, Sweden)

PS01-K-05 **Predicting reperfusion outcomes after brain ischemia by arteriovenous anastomoses volume**
Olivia Tong (Western University, Canada)

PS01-K-07 **Exploring the correlation between relative perfusion measured by simultaneous [^{18}F] Flutemetamol PET and ASL-MRI**
Robbie Haynes (University of Edinburgh, UK)

PS01-K-09 **A new analytic method for FDG functional PET on the NeuroEXPLORER with visual stimulation**
Nikkita Khattar (Yale School of Medicine, USA)

PS01-L-01 **Comparison of blood appearance time between oxygen and water in PET imaging using ^{15}O-Labeled tracers**
Nobuyuki Kudomi (Kagawa University, Japan)

PS01-L-03 **Functional imaging of P-glycoprotein in the blood-brain barrier in diabetic animal models**
Jun Toyohara (Tokyo Metropolitan Institute for Geriatrics and Gerontology, Japan)

PS01-L-05 **Carbon-11 isotopic labeling and brain PET evaluation of the antinociceptive drug serodolin**
Fabien Caillé (CEA, Paris-Saclay University, France)

PS01-L-07 **Functional characterization of a new primate synucleinopathy model using multimodal behavioral and PET imaging assessments**
Sonia Lavisse (Laboratoire des Maladies Neurodégénératives. Univ Paris-Saclay. CEA-Fontenay-aux-Roses, France)

PS01-L-09 **Tracking astrogliosis following traumatic brain injury: A [18F]-FDED PET imaging study**
Wai Lam Leung (Central Clinical School, Monash University, VIC, Australia)

PS01-L-11 **The brain-body axis of white matter hyperintensities and Alzheimer's disease: Genetic and causal insights**
Flavie E. Detcheverry (Université de Montréal, Canada)

15:00-16:00 **PS02 Pathology**

Chairs Dr. Sébastien Foulquier (Maastricht University, Netherlands)
Prof. Hahn Young Kim (Konkuk University Hospital, Korea)
Prof. Ignacio Lizasoain (Institute for Health Research, 12 de Octubre Hospital (i+12), Spain)

PS02-A-02 **PAI-1 in border-associated macrophages suppresses TPA activity and impairs functional hyperemia in amyloid pathology**
Antoine Anfray (Weill Cornell Medicine, USA)

PS02-A-04 **Vulnerability of venous-associated pericytes in cerebral amyloid angiopathy leads to altered capillary structure**
Cara Nielson (University of Washington, USA)

PS02-A-06 **Amyloid B(1-40)-integrin binding is the key to unlocking cerebral blood flow in Alzheimer's disease**
Harry Pritchard (University of Manchester, UK)

PS02-A-08 **Functional ultrasound characterisation of two Alzheimer's disease mouse models**
Ioana-Emilia Mosneag (Faculty of Biology, Medicine and Health, The University of Manchester, UK)

PS02-A-10 **Characterising neurovascular function and behaviour in a mouse model of tauopathy**
Rahul Sidhu (University of Sheffield, UK)

PS02-A-12 **Middle cerebral artery remodelling in early stages of Alzheimer's disease**
Maria Hovmann Andresen (Aarhus University, Denmark)

PS02-A-14 **Impaired cerebrospinal fluid circulation and cerebral lymphatic drainage in a rat model of chronic hydrocephalus**
Dong Bin Back (Neuroprotection Research Laboratory, Massachusetts General Hospital and Harvard Medical School, USA)

PS02-B-02 **Using hypercapnia to alter disease progression in a mouse model of tauopathy**
Llywelyn Lee (University of Sheffield, UK)

PS02-B-04 **Deciphering the role of brain endothelial ApoER2 in cerebrovascular function**
Sotaro Hirai (University of Calgary, Canada)

PS02-B-06 **Investigating vascular risk factors in individuals with Alzheimer's disease compared to non-demented AD neuropathology**
Nicole M Fletcher (Oregon Health & Science University, USA)

PS02-B-08 **Amyloid-β driven neuronal hyperexcitability creates energy imbalance in Alzheimer's mouse model, particularly affecting the hippocampus**
Harry Trewhitt (University of Sussex, UK)

PS02-B-10 **Basic technique of carotid endarterectomy with patch graft and long-term outcomes at 10 and 15 years postoperatively**
Masaaki Korai (Tokushima University Graduate School, Japan)

PS02-B-12 **Cilostazol, a vasodilatory antithrombotic, prevents infarction in NOSi-mediated large artery ischemic stroke model (NAIM) mice**
Ha Kim (Dongguk University Ilsan Hospital, Korea)

PS02-B-14 **MafF is associated with aging- and ischemia-induced inflammation in the brain of aged mice**
Yelin Park (Ewha Womans University College of Medicine, Korea)

PS02-C-02 **NETs associated migrasomes facilitate cerebral thrombus development by concentrating calcium ion**
Mengyan Hu (Third affiliated hospital of Sun Yat-sen university, China: CAS)

PS02-C-04 **The Zinc-Lactylation-Mitochondrial axis: A novel mechanistic pathway in ischemic stroke**
Yuequan Zhu (Xuanwu Hospital of Capital Medical University, China: CAS)

PS02-C-06 **Single-cell analysis of reparative function in brain cells after ischemic stroke**
Ayaka Nakamura (Medical Research Labolatory, Insitute of Science Tokyo, Japan)

PS02-C-08 **Pericyte ablation impairs vascular and motor function recovery 14 days following photothrombotic stroke**
Hannah Coombe (University of Tasmania, Australia)

PS02-C-10 **Functional recovery during the chronic phase after cerebral infarction via CSF-derived microRNA**
Hai-Bin Xu (Juntendo University, Tokyo, Japan, Japan)

PS02-C-12 **Redox nanoparticles with cytoplasmic distribution in neuronal cells shows superior neurovascular protection properties**
Arnela Mujagic (University of Tsukuba, Japan)

PS02-C-14 **Longitudinal, dynamic assessment of perfusion in rats with transient middle cerebral artery occlusion**
Thuy Thi Le (Suwon, 16419, Korea)

PS02-D-02 **The mechanism of microRNA-140-5p targeting IL1RAPL1 to regulate neuronal function in OGD/R-induced primary mouse cortical neurons**
Yuanyue Song (Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China: CAS)

PS02-D-04 **Comparison between inbred C57BL/6 and outbred UM-Het3 mice in outcome after experimental ischemic stroke**
Hyun Ah Kim (La Trobe University, Australia)

PS02-D-06 **Investigating cerebral microcirculation in the aged APPPS1T model of Alzheimer's disease**
Frédéric Lesage (Polytechnique Montreal, University of Montreal, Canada)

PS02-D-08 **Protective effects of phosphodiesterase 5 inhibitor, mirodenafil, on traumatic brain injury-induced neuron death**
Min Kyu Park (Department of Physiology, Hallym University, College of Medicine, Chuncheon, Korea)

PS02-D-10 **Concussion in juvenile mice reduces the cerebral vasculature leading to altered blood brain interface**
Andre Obenaus (University of California Riverside, USA)

PS02-D-12 **Persistent dysfunctional connectivity between visual and memory networks underlies attention deficits following traumatic brain injury**
Jazlynn Xiu Min Tan (University of Toronto, Canada)

PS02-D-14 **NIR brain stimulation via upconversion nanoparticle-mediated optogenetics in traumatic brain injury**
Dohee Lee (School of Korean Medicine, Pusan National University, Yangsan, Gyeongnam 50612, Korea)

PS02-E-02 **Arterial and venous cerebral blood flow dysregulation in traumatic brain injury: A perfusion CT study**
Edwin Nemoto (University of New Mexico School of Medicine, USA)

PS02-E-04 **Admission syndecan-1 levels as a predictor of in-hospital mortality in isolated severe traumatic brain injury: A prospective cohort study**
Venencia Albert (All India Institute of Medical Sciences, India)

15:00-16:00 **PS02** **Physiology**

Chairs Dr. Eng H. Lo (Massachusetts General Hospital, USA)
Prof. William J. Pearce (Loma Linda University School of Medicine, USA)

PS02-E-06 **Cardiac-induced volumetric brain tissue pulsations in patients with unilateral extracranial carotid artery steNOSis**
Ellen van Hulst (University Medical Center Utrecht, Netherlands)

PS02-E-08 **Clinical and hemodynamic outcomes of one-staged revascularization combining STA-MCA bypass with encephalo-duro-myo-synangiosis and bifrontal encephalo-duro-periosteal-synangiosis in moyamoya disease**
Hideyuki Yoshioka (University of Yamanashi, Japan)

PS02-E-10 **Exploring the association of cerebral vasoreactivity in patients with acute intracerebral hemorrhage with functional outcomes**
Turgut Durduran (ICFO - Institut de Ciències Fotòniques, Spain)

PS02-E-12 **Thromboxane receptor knock-out in CNS pericytes increases capillary regression and bridge pericytes**
Catherine Foster (Seattle Children's Research Institute, USA)

PS02-E-14 **Neurovascular sequelae of repeated traumatic brain injury comorbid with chronic stress**
Matthew Rozak (University of Toronto, Canada)

PS02-F-02 **Molecular mechanisms of AEV regulated by microglia in functional recovery after stroke**
Chikage Kijima (Juntendo University School of Medicine, Japan)

PS02-F-04 **High caloric intake rescues attenuation of hippocampal neurovascular coupling in a rat model of Alzheimer's disease**
Dustin Loren Almanza (University of Toronto, Canada)

PS02-F-06 **Regional distribution of amplitudes of low-frequency fluctuations assessed using resting-state functional MRI signal in healthy young adults**
Junyeon Won (University of Texas Southwestern Medical Center, USA)

PS02-F-08 **Elucidating the impact of inhibition on neurovascular coupling during sensory processing**
Laurianne Zana (University of Montreal, Canada)

PS02-F-10 **Neurovascular coupling is shaped by distinct vascular compartments during touch vs. pain**
Antoine Malescot (Université de Montréal, Canada)

PS02-F-12 **Microglial reactivity: A key to neurovascular coupling disruption in hypertension**
Benjamin Le Gac (University of Montréal, Canada)

PS02-F-14 **Activation of P2 purinergic receptors rescues sex-dependent neurovascular uncoupling in an autism model**
Phinea Romero (University of Colorado - Anschutz Medical Campus, USA)

PS02-G-02 **Temporary carotid occlusion alters neurovascular function: Insights from a rodent model**
Sherwin Tavakol (University of Oklahoma Health Sciences Center, USA)

PS02-G-04 **Effects of NAD restoration on cerebrovascular plasticity in older adults**
Zalan Kaposzta (Associate Research Scholar, USA)

15:00-16:00 **PS02** **Therapies and Biomarkers**

Chairs Dr. Dan Huang (Renji Hospital, School of Medicine,Shanghai Jiaotong University, China: CAS)
Dr. Bojana Stefanovic (Sunnybrook Research Institute, Canada)

PS02-G-06 **Organelle involved in improving white matter lesions**
Toshiki Inaba (Neurology, Japan)

PS02-G-08 **Regulating CIRP and IL-6R-Mediated microglial inflammation to improve outcomes in intracerebral hemorrhage**
Lisha Ye (Laboratory of Basic and Translational Medicine, Nantong University, China: CAS)

PS02-G-10 **Stem cells run like clockwork for stroke therapeutics**
Jea Young Lee (USF Health Morsani College of Medicine, USA)

PS02-G-12 **Upper extremity motor improvement after carotid endarterectomy associated with postoperative recovery in cortical neurotransmitter receptor function**
Yasukazu Katakura (Iwate Medical University School of Medicine, Japan)

PS02-G-14 **Engineering recombinant GOT protein to prolong blood half-life and protective efficacy for stroke therapy**
Francisco Campos (Health Research Institute of Santiago de Compostela (IDIS), Spain)

PS02-H-02 **Parvalbumin-driven inhibitory circuitry is altered after ischemic stroke**
Adam Bauer (Washington University in St. Louis School of Medicine, USA)

PS02-H-04 **Noninvasive VNS activates central cholinergic pathway**
Afshin Divani (University of New Mexico, USA)

PS02-H-06 **Clearing the fog: The potential of plasmalogens in mitigating chemotherapy-induced cognitive impairment**
Virginie Lam (Curtin University, Australia)

PS02-H-08 **Evaluating the dysfunction of pericytes following exposure to chemical ischaemia via detection of soluble PDGFRβ**
Lily Hayes (University of Tasmania, Australia)

PS02-H-10 **Injectable microporous microgel scaffold: An efficient platform for neural progenitor cell transplantation and vascularization post-stroke**
Ze Liu (Shanghai Jiao Tong University, China: CAS)

PS02-H-12 **Relaxin-producing BM-MSCs display longer-term motor improvement over naïve BM-MSCs in mice subjected to photothrombotic stroke**
Adriana Knezic (Monash University, Australia)

PS02-H-14 **Glia-like cells from HMSCs enhance cognitive function and neuroregeneration in a mouse model of vascular cognitive impairment and dementia**
Seong-Ho Koh (Hanyang University Guri Hospital, Hanyang University College of Medicine, Guri, Korea)

PS02-I-12 **LGR5-Mediated regulation of WNT signaling in neural and neurogenic tumor stem cells: A mechanistic study**
Seong-Ho Koh (Hanyang University, Korea)

PS02-I-14 **Glia-like cells derived from human mesenchymal stem cells enhance neuroplasticity to treat ischemic stroke sequelae**
Eun Ji Lee (Hanyang University, Korea)

PS02-J-14 **Novel metabolically glycoengineered neural stem cells to treat brain injury after cardiac arrest**
Xiaofeng Jia (University of Maryland School of Medicine, USA)

15:00-16:00 **PS02** **Brain PET**

Chairs Prof. Evan D Morris (Yale University, USA)
Prof. Hsiao-Ying Wey (MGH, Harvard Medical School, USA)

PS02-I-02 **Permeability-surface area product estimation of [18F]MK6240 using simulation**
Masashi Kameyama (Tokyo Metropolitan Institute for Geriatrics and Gerontology, Japan)

PS02-I-04 **Clinical and quantitative advances in the synthesis of late-frame [11C]-PiB PET images from early-frame acquisitions**
Bo-Wei Tsai (National Taiwan University, Taiwan)

PS02-I-06 **Advancing antibody-based pretargeted PET imaging of protein aggregates in the brain**
Michael Honer (Roche Innovation Center Basel, Switzerland)

PS02-I-08 **Evaluation of data-driven list-mode motion estimation techniques for signal-varying dynamic PET acquisitions**
Martin Bolin (Karolinska Institutet & Stockholm Health Care Services, Region Stockholm, Sweden)

PS02-I-10 **A Data-driven approach for generating class-separating VOI templates in brain PET imaging**
Linus Falk (Uppsala University, Sweden)

PS02-J-02 **Effect of resilience-related life experiences on variability in longitudinal change of cerebral metabolism in dominantly inherited Alzheimer's disease**
Hye Joo Son (Dankook University Colledge of Medicine, Korea)

PS02-J-04 **Influence of EEG electrodes on PET images**
Magdalena Ponce de León (Medical University of Vienna, Austria)

PS02-J-06 **CBF in healthy aging measured with non-invasive dual-bolus 15O-water PET**
My Jonasson (Uppsala University, Sweden)

PS02-J-08 **Relative CBF changes in parkinonian disorders based on 11C-PE2I PET**
Mark Lubberink (Uppsala University, Sweden)

PS02-J-10 **Inflammatory profile in LRRK2-associated prodromal and clinical PD: A cross-sectional study**
Cheng-cheng Fan (Xuanwu Hospital,Capital medical university, China: CAS)

PS02-J-12 **[11C]PiB brain retention is not affected by antibody binding to amyloid-beta**
Stina Syvänen (Uppsala University, Sweden)

PS02-K-02 **Peripheral inflammation is associated with reduced influx of TSPO PET tracers into the brain**
Leonardo Barzon (University of Padova, Padova, Italy)

PS02-K-04 **Striatal beta-amyloid chronicity explains variability in regional FDG hypometabolism in the Down syndrome population**
Max McLachlan (University of Wisconsin - Madison, USA)

PS02-K-06 **Understanding the relationship between synaptic density and dopamine transporter availability in parkinson's disease**
Tommaso Volpi (Yale University, USA)

PS02-K-08 **Evaluation of [^{18}F]-OPC3497 to image lysophosphatidic acid receptor 1 in brain and lungs of nonhuman primate**
Christine Sandiego (Perceptive, USA)

PS02-K-10 **In vivo quantification of NMDA-GluN2B receptor occupancy by ifenprodil in nonhuman primates using (S)-[18F]OF-NB1 PET**
Nakul R. Raval (Yale University, USA)

PS02-L-02 **Effect of social defeat stress on the in vivo neurotransmission system in adolescence**
Bo Hyun Kim (Korea Institute of Radiological and Medical Sciences, Korea)

Poster Sessions_June 2

PS02-L-04 **Desynchronization within the striatal network in schizophrenia: Preliminary results of an FDOPA-PET study**
Igor Yakushev (Technical University of Munich, Germany)

PS02-L-06 **Functional connectivity and serotonin transporter binding differentially drive network adaptations under pharmacological challenge in depression**
Sebastian Klug (Medical University of Vienna, Austria)

PS02-L-08 **The longitudinal effect of amisulpride on the interactions between striatal dopamine synthesis capacity and GABA in first-episode psychosis**
Euitae Kim (Seoul National University, Korea)

PS01-L-09 **Tracking astrogliosis following traumatic brain injury: A [18F]-FDED PET imaging study**
Wai Lam Leung (Central Clinical School, Monash University, VIC, Australia)

PS02-L-10 **Noradrenaline transporter availability and neuronal resting state network connectivity in human binge-eating disorder and obesity**
Swen Hesse (Leipzig University Medical Center, Germany)

BRAIN & BRAIN PET 2025

POSTER PRESENTATION

Tuesday, June 3, 2025

- SET-UP: June 3, 07:00 - 09:00 AM
- PRESENTATION:
  - PS03: June 3 (Tue), 09:30 - 10:30 AM
  - PS04: June 3 (Tue), 14:30 - 15:30 PM
  - * Poster presenters should be present at your poster at the above time.
- REMOVAL: June 3, 17:00 - 18:30 PM
  - * Any posters remaining after 18:30 PM will be removed and discarded by the staff.

PS03

BOARD NO.	TOPIC	PAGE
A-01 - D-13	Pathology	104 - 106
E-01 - F-09	Physiology	106 - 107
F-11 - G-09	Techniques	107 - 108
G-11 - I-05	Therapies and Biomarkers	108 - 109
I-07 - L-09	Brain PET	109 - 110

PS04

BOARD NO.	TOPIC	PAGE
A-02 - D-14	Pathology	111 - 113
E-02 - F-10	Physiology	113 - 114
F-12 - F-14, G-06 - G-14	Techniques	114 - 115
G-02 - G-04, H-02 - H-14, I-10 – I-14	Therapies and Biomarkers	115 - 116
I-02 - I-08, J-02 - L-10	Brain PET	116 - 118

Tuesday, June 3

09:30-10:30 **PS03** **Pathology**

Chairs Prof. Xiaoming Hu (University of Pittsburgh, USA)
Prof. Peiying Li (Renji Hospital, Shanghai Jiaotong University School of Medicine, China: CAS)
Dr. Laibaik Park (Cornell University, Weil Medical College, USA)

PS03-A-01 **Blood-brain barrier opening as a predictor of epilepsy and mortality after subarachnoid hemorrhage**
Jens Dreier (Charite University Medicine Berlin, Germany)

PS03-A-03 **Microvascular occlusion causes delayed cerebral ischemia after subarachnoid hemorrhage in mice**
Devin McBride (UTHealth at Houston, USA)

PS03-A-05 **Developing CaADAMTS13 as a novel pan-stroke therapy**
Chiara Ramponi (The University of Manchester, UK)

PS03-A-07 **Lipopolysaccharide of periodontal bacteria influences the incidence of subarachnoid hemorrhage**
Noriya Enomoto (Tokushima University, Japan)

PS03-A-09 **Glymphatic system dysfunction assessed by ALPS index in subarachnoid hemorrhage: implications for hydrocephalus and clinical outcomes**
Fumiaki Oka (Yamaguchi University Graduate School of Medicine, Japan)

PS03-A-11 **Dynamics of microglia/macrophages in spontaneous intracerebral hemorrhage in endothelial KRAS mutation-induced malformed brain vasculature**
Eunsu Park (The University of Texas Health Science Center at Houston, USA)

PS03-A-13 **Trametinib reduces intracerebral hemorrhages in KRAS(G12V)-induced brain arteriovenous malformations in mice**
Eunhee Kim (University of Texas Health Science Center at Houston, USA)

PS03-B-01 **Targeted deletion of Col4a1 in adult brain endothelial cells in mice leads to multiple microhemorrhages resembling human cerebral microbleeds**
Hyunmi Kim (Ajou University School of Medicine, Suwon 16499, Korea)

PS03-B-03 **Investigating the role of perivascular macrophages and changes to vasculature in the chronic stages of intracerebral haemorrhage**
Joseph Cooper (University of Manchester, UK)

PS03-B-05 **Secondary ischemia from (convexity) subarachnoid hemorrhage in a mouse model of cerebral amyloid angiopathy**
Mariel Kozberg (Massachusetts General Hospital, USA)

PS03-B-07 **Investigating the role of systemic inflammation in the development of post-stroke cognitive impairment**
Ellen Gray (University of Manchester, UK)

PS03-B-09 **Induced hypertension after reperfusion aggravates stroke outcome in focal cerebral ischemia in mice**
Takahiko Imai (Massachusetts General Hospital, USA)

PS03-B-11 **Investigating thrombolysis in aged mice with varying leptomeningeal collaterals**
Nadine Felizitas Binder (University of British Columbia, Canada)

PS03-B-13 **Carbon dioxide preconditioning mitigates ischemic injury and preserves neurovascular integrity in stroke models**
Chung Eun Yoon (Yonsei University College of Medicine, Korea)

PS03-C-01 **Probiotic BM109 reduces ischemic stroke severity by lowering trimethylamine N-oxide (TMAO) levels**
Chung Eun Yoon (Yonsei University College of Medicine, Korea)

PS03-C-03 **Time-dependent increase the monocyte/macrophage infiltration in arterial thrombus**
Jinju Song (Yonsei University Colleage of Medicine, Korea)

PS03-C-05 **Amnion epithelial cell therapy reduces vascular injury and cognitive impairment after hypertension and stroke**
T. Michael De Silva (La Trobe University, Australia)

PS03-C-07 **Demonstration of differential vulnerability in mouse and human using OGD brain slice model**
Patrick Lyden (University of Southern California, USA)

PS03-C-09 **Chronic neuroinflammation and functional decline: Decoding secondary neurodegeneration following photothrombotic stroke in rats**
Shannon Stuckey (The University of Adelaide, Australia)

PS03-C-11 **Complementary measurements of skilled reaching for thorough assessment of motor recovery after stroke**
Juliette Lévénez (Vrije Universiteit Amsterdam, Amsterdam, Netherlands)

PS03-C-13 **Integrating inflammation dynamics and neuroprotection in ischaemic stroke: A simulation-based approach to stroke treatment**
Chia-To Wang (National Taiwan University, Taipei, Taiwan)

PS03-D-01 **Circulating mucosal-associated invariant T cells are associated with human ischemic stroke and predict outcome**
Tadashi Ozawa (Jichi Medical University School of Medicine, Japan)

PS03-D-03 **The involvement of astrocyte metabolism in acute and chronic neuroinflammation**
Veit Rothhamer (University Hospital Erlangen, Germany)

PS03-D-05 **Systemic inflammation associated with acute lung injury in patients with intracerebral hemorrhage**
Zhi-li Chen (The First Affiliated Hospital, Fujian Medical University, China: CAS)

PS03-D-07 **Hippo kinases MST1/2 (STK4/3) regulate microglial homeostasis and inflammation in the CNS**
Jongshin Kim (Pohang University of Science and Technology, Korea)

PS03-D-09 **The role of CD8 tregs in regulating neutrophil aging in alleviating blood-brain barrier disruption and hemorrhagic transformation after ischemic stroke**
Jianan Lu (Second Affiliated Hospital, School of Medicine, Zhejiang University, China: CAS)

PS03-D-11 **Arginase-1 in infiltrating macrophages impairs functional recovery by altering neuro-immune interaction following stroke**
Hyung Soon Kim (Ajou University School of Medicine, Korea)

PS03-D-13 **Corticosterone-mediated PRDX1 upregulation protects against stroke injury**
Huiju Jo (Ewha Womans University, Korea)

09:30-10:30 **PS03** **Physiology**

Chairs Prof. Catherine Hall (University of Sussex, UK)
Dr. Anusha Mishra (Oregon Health & Science University, USA)

PS03-E-01 **A nutraceutical supplementation of l-arginine and aged garlic extract improves cerebral capillary function and attenuates migraine in adult Australians**
Ryu Takechi (Curtin University, Australia)

PS03-E-03 **Acute effects of cilostazol and isosorbide mononitrate on white matter haemodynamics in wild-type mice**
Albeshr Almasri (University of Sussex, UK)

PS03-E-05 **Low-frequency vascular OSCIllations in a preclinical model of Alzheimer's disease: Haemodynamic and neuronal contributions**
Shannon O'Connor (University of Sheffield, UK)

PS03-E-07 **Resting state neurovascular coupling and connectivity with and without rigidified carotid artery**
Marleen Bakker (École Polytechnique de Montréal, Canada)

PS03-E-09 **Neurovascular coupling in the rodent optic nerve**
David Esteban Suarez-Baquero (Sorbonne Université, INSERM, CNRS, France)

PS03-E-11 **Noradrenaline dependent astrocyte Ca2+ activity regulates neurovascular coupling responses to active sensing**
Barbara Lind (University of Copenhagen, Denmark)

PS03-E-13 **Using hypercapnia to alter disease progression in an amyloid producing mouse model**
Kira Shaw (University of Sheffield, UK)

PS03-F-01 **Brain and cerebrovascular alterations after knocking out caveolin-1 in mouse endothelial cells**
Andre Obenaus (University of California Riverside, USA)

PS03-F-03 **Intrinsic endothelial remodeling enables cerebral microvascular repair**
Jacqueline Condrau (University of Zurich, Switzerland)

PS03-F-05 **16p11.2 microdeletion compromises blood-brain barrier integrity in mice**
Pavel Kotchetkov (The Ottawa Hospital Research Institute, Canada)

PS03-F-07 **The correlation of chronological vascular change within dorsal root ganglion and sensory neuronal firing in pain progression**
Daeun Roh (Gwangju Institute of Science and Technology, Korea)

PS03-F-09 **Tubastatin A alleviates methamphetamine-induced neuroinflammation and oxidative brain injury via hdac6 inhibition**
Ji Hae Seo (Keimyung University School of Medicine, Daegu, Korea)

09:30-10:30 **PS03** **Techniques**

Chair Prof. Frédéric Lesage (Ecole Polytechnique Montreal, Canada)

PS03-F-11 **The suppression of post-operative hyper-perfusion phenomenon by staged angioplasty in patients with carotid severe stenosis with reduced cerebrovascular reserve, and issues**
Ichiro Nakagawa (M.D., Ph.D., Japan)

PS03-F-13 **Biological age embeddings enhance prospective glucose-metabolic image generation accuracy**
Hankyo Jung (Yonsei University, Korea)

PS03-G-01 **Multi-mode-fiber-based speckle contrast optical tomography system for human imaging of cerebral blood flow**
Connie Luk (Washington University in Saint Louis, USA)

PS03-G-03 **Early implementation of credibility framework for models of cerebral disease in personalised healthcare**
Hongchi Kao (National Taiwan University, Taiwan)

PS03-G-05 **A miniature, wearable broadband near-infrared spectroscopy device (MicroRENAS) for monitoring cerebral haemodynamics and metabolism**
Renas Ercan (University of Cambridge, UK)

PS03-G-07 **Applicability of the ADC ratio images from DWI with two distinct echo times**
Kazuhiro Nakamura (Research Institute for Brain and Blood Vessels Akita, Japan)

PS03-G-09 **Clinical translation of laser speckle contrast imaging for neurosurgery**
David Miller (University of Oklahoma, USA)

09:30-10:30 **PS03** **Therapies and Biomarkers**

Chair Prof. Giuseppe Pignataro (Division of Pharmacology, School of Medicine, University of Naples "Federico II", Italy)

PS03-G-11 **Biomarker sensing with line-scan single-molecule localization microscopy for Alzheimer's disease**
Sangjun Park (The Catholic University of Korea, College of Medicine, Korea)

PS03-G-13 **Radiomics-informed brain age matrices for classifying mild cognitive impairment converters**
Hanna Lu (The Chinese University of Hong Kong, Hong Kong)

PS03-H-01 **Unilateral carotid artery occlusion induces large cerebral infarction in mice with hyperglycemia and hyperlipidemia**
Hee Jeong Jang (Dongguk university ilsan hospital, Korea)

PS03-H-03 **A novel peptidome technology for the diagnosis of MCI and AD**
Yusuke Fukui (Okayama University, Japan)

PS03-H-05 **Relationship between blood haptoglobin levels and clinical outcomes in patients with ischemic stroke**
Takafumi Nakano (Fukuoka University, Japan)

PS03-H-07 **Genetic biomarkers for identification of atrial fibrillation in individuals with ischaemic stroke/transient ischaemic attack**
Caitlin Cosgrove (University of Glasgow, UK)

PS03-H-09 **Edema compression and contractile disturbances of parenchymal arterioles following ischemia-reperfusion**
Line Mathilde B. Hansen (Aarhus University, Aarhus, Denmark)

PS03-H-11 **Plasma biomarkers of neurodegeneration and inflammation in an aged mouse model of ischemic stroke**
Danielle Becktel (University of Arizona, USA)

PS03-H-13 **Effects of transcranial infrared photobiomodulation on visual perception and eye movement dynamics in healthy volunteers**
Edwin Nemoto (University of New Mexico School of Medicine, USA)

PS03-I-01 **Ficolin-2 high consumption is a marker of ischemic stroke caused by large-artery atherosclerosis**
Domenico Mercurio (University of Kentucky, USA)

PS03-I-03 **Microglia gp130 signaling attenuates tissue damage and functional deficits following ischemia-reperfusion stroke injury**
Seung Jae Kim (University of Queensland, Australia)

PS03-I-05 **Photobiomodulation as a treatment for multiple concussions in mice**
Edwin Nemoto (University of New Mexico School of Medicine, USA)

09:30-10:30 **PS03** **Brain PET**

Chairs Prof. Jae Seung Kim (Asan Medical Center, University of Ulsan College of Medicine, Korea)
Prof. Mark Lubberink (Uppsala University, Sweden)

PS03-I-07 **Brain perfusion imaging from early-phase amyloid PET is affected by tracer accumulation in amyloid deposition**
Hidehiko Okazawa (University of Fukui, Japan)

PS03-I-09 **Head to head comparison of [18F]CHL-2205 and [18F]T008 as PET biomarkers of cholesterol homeostasis in the brain**
Fabien Caillé (BIOMA**PS**, Paris-Saclay University, France)

PS03-I-11 **Long-term asymmetric dopaminergic degeneration in MPTP-induced hemiparkinsonian monkeys: PET imaging and histopathology**
Jincheol Seo (Korea Research Institute of Bioscience and Biotechnology, Korea)

PS03-I-13 **Glutamate PET as a useful imaging biomarker for Alzheimer's disease**
Jae Yong Choi (Korea Institute of Radiological & Medical Sciences, Korea)

PS03-J-01 **Striatal dysfunction in Parkinson's disease progression: A 18F-AV133 PET study**
Shu-Ying (Xuanwu Hospital, Capital Medical University, Beijing, China: CAS)

PS03-J-03 **Comparison of potential reference regions for 18F-APN-1607 PET in progressive supranuclear palsy**
Shu-Ying (Xuanwu Hospital, Capital Medical University, Beijing, China: CAS)

PS03-J-05 **Deep learning-based analysis of amyloid PET imaging for early detection and characterization of cerebral amyloid angiopathy and Alzheimer's disease**
Guan-Lin Huang (National Taiwan University, Taiwan)

PS03-J-07 **Practical insights for the implementation of the centiloid scale in [11C]PiB PET data of cognitively healthy older adults**
Claudia Tato-Fernández (University of Turku, Finland)

PS03-J-09 **Q amyloid: Building an open-access platform for automated amyloid-beta quantification**
Bendetta Marin (University of Padova, Padova, Italy)

PS03-J-11 **Synaptic density imaging in experienced meditators**
David Matuskey (Associate Professor, USA)

PS03-J-13 **The interplay between reward-specific changes in dopamine synthesis and FMRI-derived neuronal activation**
Christian Milz (Medical University of Vienna, Austria)

PS03-K-01 **Adenosine A1 receptor availability and cognitive performance: The effect of coffee and sleep restriction**
David Elmenhorst (Forschungszentrum Jülich, Germany)

PS03-K-03 **Synaptic density differences between Parkinson's disease patients with and without REM sleep behavior disorder symptoms**
Salih Cayir (Yale University, USA)

PS03-K-05 **PET imaging of purinergic P2X7 receptors in neuroinflammation after experimental stroke in rats**
Abraham Martin (Achucarro Basque Center for Neuroscience, Spain)

PS03-K-07 **Sleep restriction diminishes methylphenidate-induced dopamine release in male smokers**
Evan D Morris (Yale, USA)

PS03-K-09 **Clinical and monoaminergic imaging characteristics in premotor LRRK2 G2385R and R1628P associated Parkinson disease: A cross-sectional study**
Cheng-cheng Fan (Xuanwu Hospital, Capital Medical University, China: CAS)

PS03-L-01 **Dopaminergic and synaptic alterations in SWEDD: Insights from [^{18}F] FE-PE2I and [^{11}C] UCB-J PET imaging**
David Matuskey (Associate Professor, USA)

PS03-L-03 **(s)-[11C]Ketamine in the rhesus macaque: Investigation of ketamine competition**
Brecca Bettcher (University of Wisconsin-Madison, USA)

PS03-L-05 **Cognitive dysfunction induced by microplastic exposure on the eye**
Ah reum Hong (Korea Institute of Radiological Medical Sciences (KIRAMS), Korea)

PS03-L-07 **Small-animal PET: Improvement of BPND for TSPO with [18F]FEDAC by CBF correction in stroke model**
Tomoteru Yamasaki (National Institutes for Quantum and Radiological Science and Technology, Japan)

PS03-L-09 **MRI-based AI for non-invasive detection of amyloid pathology in Alzheimer's disease**
Nakul R Raval (Yale University, USA)

14:30-15:30 **PS04 Pathology**

Chairs Prof. Xiaoming Hu (University of Pittsburgh, USA)
Prof. Peiying Li (Renji Hospital, Shanghai Jiaotong University School of Medicine, China: CAS)
Dr. Laibaik Park (Cornell University, Weil Medical College, USA)

PS04-A-02 **Assessment of cerebral circulation time and prognostic prediction using blood flow analysis software in subarachnoid hemorrhage**
Takeshi Hara (Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan)

PS04-A-04 **Stuctural and glymphatic changes from intracranial dural arteriovenous fistulas with reflux detected by diffusion imaging**
Brandon Hall (McGill University, Canada)

PS04-A-06 **Glymphatic system activation: A translational approach to accelerate hematoma clearance after intracerebral hemorrhage**
Junbo Liao (The University of Hong Kong, Hong Kong)

PS04-A-08 **Endothelial TRAF7 deletion leads to cerebrovascular fragility and neurovascular dysfunction in a conditional knockout mouse model**
Sherwin Tavakol (University of Oklahoma Health Sciences Center, USA)

PS04-A-10 **CD22 blockade modulates microglia activity to suppress neuroinflammation following intracerebral hemorrhage**
Honglei Ren (Tianjin Medical University General Hospital, China: CAS)

PS04-A-12 **Real-time vascular leakage intravital imaging in the neuroinflammation animal model induced by LPS treatment and its mitigation by antibody therapy**
Jenny Junghyon Ohm (IVIM Technology, Korea)

PS04-A-14 **Morphological heterogeneity of CNS border-associated macrophages after photothrombotic stroke**
Do-Gyun Kim (The Catholic University of Korea, Korea)

PS04-B-02 **IFN-γ-responsive microglia-derived extracellular vesicles aggravated neurofunctional deficits via MiR-199a-5p/SIRT1 axis after ischemic stroke in mice**
Tongtong Xu (Shanghai Jiao Tong University, China: CAS)

PS04-B-04 **A harmonization pipeline for computed tomography perfusion maps from multiple sites**
Pattarawut Charatpangoon (University of Calgary, Canada)

PS04-B-06 **Neutrophil related microvascular immunothrombosis in cerebral ischemic stroke**
Yirong Cao (Renji Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China: CAS)

PS04-B-08 **Covid-19 reduces CBF by constricting pericytes and increases pericyte constriction during ischaemia**
Silvia Anderle (UCL, UK)

PS04-B-10 **Imaging the temporal dynamics of blood-brain barrier dysfunction after ischemic stroke in rats**
Naroa Mocha-Muñoz (Achucarro Basque Center for NeuroSCIence, Spain)

PS04-B-12 **Sensitivity of DSC perfusion MRI to microvascular no-reflow after ischemic stroke: A biophysical modelling approach**
Bart Franx (University Medical Center Utrecht, Netherlands)

PS04-B-14 **B cell depletion reduces chronic cognitive deficits but increases infarct volume after prefrontal stroke**
Katherine Cotter (University Of Kentucky, USA)

PS04-C-02 **Gene escape from X chromosome inactivation contributes to sex differences in stroke**
Fudong Liu (The University of Texas Health Science Center at Houston, USA)

PS04-C-04 **Hybrid electro-optical stimulation promotes glymphatic function and reduces ischemic brain damage**
Min Jae Kim (School of Korean Medicine, Pusan National University, Korea)

PS04-C-06 **Ketamine inhibits the inverse haemodynamic response to spreading depolarisation in early focal cerebral ischaemia**
Lorena Fernandes (University of Manchester, UK)

PS04-C-08 **Distinct temporal dynamics of B cell development in the skull, femur, and dura after ischemic stroke in mice**
Annabel McAtee (University of Kentucky, USA)

PS04-C-10 **Neuroprotective strategy for ischemic stroke using LM22A-4-loaded smart mesoporous balls**
Jae Ho Lee (School of Korean Medicine, Pusan National University, Yangsan, Gyeongnam 50612, Korea)

PS04-C-12 **The role of epigenetic regulator BRD4 in global cerebral ischemia-induced neuroinflammation**
Jee-Yeon Hwang (Creighton University School of Medicine, USA)

PS04-C-14 **Chronological change of polycomb group proteins in gerbil hippocampus during acute phase of forebrain ischemia**
Yoshihide Sehara (Jichi Medical University, Japan)

PS04-D-02 **Impaired cerebrovascular and oxygen metabolic response to moderate cerebral hypoxic exposure in patients with multiple sclerosis**
Mark Bitsch Vestergaard (Copenhagen University Hospital - Rigshospitalet, Denmark)

PS04-D-04 **Establishing a pipeline to characterise the immune landscape and pathway activation response in a multi-site longitudinal clinical study of post stroke cognitive decline**
Harry Deijnen (University of Manchester, UK)

PS04-D-06 **In vivo hypoxia promotes recovery after SCI, alters T cell populations, and modulates mitochondrial energetics**
Daimen Britsch (University of Kentucky, USA)

PS04-D-08 **Regulation of macrophage-mediated neurodegeneration by aurora kinase following ischemic stroke**
Yeojin Seo (Ajou University Graduate School of Medicine, Korea)

PS04-D-10 **Targeting mucosal-associated invariant T (MAIT) cells as a therapeutic strategy for acute ischemic stroke and its effects on neuroinflammation**
Sho Nakajima (Juntendo University School of Medicine, Japan)

PS04-D-12 **L-arginine is a critical substrate to maintain monocyte activation in post-ischemic stroke**
Hyunwoo Ju (Burke Neurological Institute, Weill Cornell Medicine, USA)

PS04-D-14 **Brain ischemia causes systemic notch1 activity in endothelial cells to drive atherosclerosis**
Mingming Liu (Tianjin Medical University General Hospital, China: CAS)

14:30-15:30 **PS04 Physiology**

Chairs Prof. Catherine Hall (University of Sussex, UK)
Dr. Anusha Mishra (Oregon Health & Science University, USA)

PS04-E-02 **Exploring self-assembled nanofibrous peptide hydrogels for 3D angiogenesis**
Salwa Alshehri (University of Jeddah, Saudi Arabia)

PS04-E-04 **Role of SST-expressing neurons in cerebral hemodynamic regulation**
Tan Thanh Vo (Center for NeuroSCIence Imaging Research (CNIR), Institute for Basic Science (IBS), Korea)

PS04-E-06 **Is cerebral vasomotion driven by neurovascular coupling in rats**
Runchong Wang (University of Sheffield, UK)

PS04-E-08 **Alzheimer-stroke continuum: The role of spreading depolarization**
Anna Törteli (Albert Szent-Györgyi Medical School and Faculty of Science and Informatics, University of Szeged, Hungary)

PS04-E-10 **Spatiotemporal variations and novel categorization of the negative hemodynamic response function in human V1**
Jung Hwan Kim (University of Texas Health Science Center at Houston, USA)

PS04-E-12 **The role of non-classical interneurons in neurovascular coupling**
Eugenio Gutiérrez-Jiménez (Aarhus University, Denmark)

PS04-E-14 **Impact of dobutamine-induced acute stress on neurovascular coupling dynamics**
Pengling Ren (Beijing Friendship Hospital, Capital Medical University, China: CAS)

PS04-F-02 **Astrocytic AQP4/TRPA1/BEST1/D-serine signaling modulates brain hemodynamics and sensory perception through NMDA receptors**
Myeong-Ju Joy Kim (Sungkyunkwan University, Korea)

PS04-F-04 **Impact of social interaction on neurovascular coupling**
Chihiro Baba (Graduate School of Informatics and Engineering, The University of Electro-Communications, Japan)

PS04-F-06 **Zero echo time FMRI contrast mechanisms: Sensitivity to alterations in CBV/CBF and oxygenation**
Olli Gröhn (University of Eastern Finland, Finland)

PS04-F-08 **Cellular mechanisms of pericyte contractility**
Bradley Marxmiller (Oregon Health and Science University, USA)

PS04-F-10 **Clopidogrel administration impairs neurovascular unit recovery and exacerbates amyloid beta accumulation in aged mice post-stroke**
Rebecca Hood (School of Biomedicine, University of Adelaide, Australia)

14:30-15:30 **PS04** **Techniques**

Chair Prof. Frédéric Lesage (Ecole Polytechnique Montreal, Canada)

PS04-F-12 **Comparison of deep learning-based [18F]FP-CIT PET quantification using inverse-normalized voi generation with statistical parametric mapping**
Soyoon Yoon (Asan Medical Center, Korea)

PS04-F-14 **Machine learning-driven behavioral analysis and mapping in an Alzheimer's disease mouse model**
Gehan Fatima (Gwangju Institute of Science and Technology, Korea)

PS04-G-06 **High fidelity, multi-channel non-invasive cerebral perfusion monitoring using interferometric diffuse correlation spectroscopy**
Stefan Carp (Massachusetts General Hospital, USA)

PS04-G-08 **Usefulness of intravascular pressure measurement using pressure wire in carotid artery stenting in patients with carotid artery steNOSis**
Makoto Isozaki (Division of Medicine, Faculty of Medical Sciences, University of Fukui, Japan)

PS04-G-10 **Ultra-sensitive biosensor based on cell-derived nanovesicles for CB1 receptor-targeted drug development in a live cell-free platform**
Hyungsup Kim (Sookmyung Women's University, Korea)

PS04-G-12 **Electrical stimulation to promote angiogenesis after stroke and development of electroceutical parameters**
Bum Jun Kim (Brain SCIence, Korea)

PS04-G-14 **High-speed volumetric in vivo imaging with TAG lens-based line-scan confocal microcopy**
Suhyeon Kim (Gwangju Institute of Science and Technology, Korea)

14:30-15:30 **PS04** **Therapies and Biomarkers**

Chair Prof. Giuseppe Pignataro (Division of Pharmacology, School of Medicine, University of Naples "Federico II", Italy)

PS04-G-02 **Time-dependent efficacy of drag-reducing polymers in restoring cerebral microcirculation after permanent ischemic stroke in rats**
Edwin Nemoto (University of New Mexico School of Medicine, USA)

PS04-G-04 **PIWIL2 modulation mitigates neuroinflammation and stabilizes genomic integrity thus reducing brain ischemic damage**
Giuseppe Pignataro ("Federico II" University of Naples, Italy)

PS04-H-02 **Evaluating quantification methods for [18F]PI-2620 Tau PET in progressive supranuclear palsy**
Lucy Vivash (Monash University, Australia)

PS04-H-04 **Peripheral RIPK1 predicts postoperative delirium in elderly patients undergoing cardiac surgery**
Rui Pang (Renji Hospital, Shanghai Jiao Tong University School of Medicine, China: CAS)

PS04-H-06 **Differential performance of P-tau217 in reflecting amyloid and tau stages in cognitively unimpaired and impaired individuals**
Hanna Cho (Gangnam Severance Hospital, Yonsei University College of Medicine, Korea)

PS04-H-08 **APOE genotype modulates the relationship between plasma P-tau217 and amyloid burden in Alzheimer's disease**
Hanna Cho (Gangnam Severance Hospital, Yonsei University College of Medicine, Korea)

PS04-H-10 **Unraveling monocyte-mediated inflammation in stroke: A single-cell transcriptomic approach**
Dong-Wan Kang (Seoul National University Bundang Hospital, Korea)

PS04-H-12 **Investigating the role of TUFM in Lgr5 activation within the Wnt signaling pathway and its impact on neurogenic tumor cells and neural stem cells**
Seong-Ho Koh (Hanyang University Guri Hospital, Hanyang University College of Medicine, Korea)

PS04-H-14 **Association of soluble TREM2 with other biomarkers in sporadic Alzheimer's disease**
Seong-Ho Koh (Hanyang University Graduate School of Biomedical Science & Engineering, Korea)

PS04-I-10 **The impact of hypothermia on stroke volume and CSF dynamics: A proteomic study**
Merce Fuentes-Amell (University of Newcastle, Australia)

PS04-I-12 **The link between osteoporosis and telomere shortening in dementia patients**
Seong-Ho Koh (Hanyang university, Korea)

PS04-I-14 **Risk and mediation analysis of the ratio of blood glucose to potassium and survival prognosis in patients with severe ischemic stroke**
Hailong Yu (Northern Jiangsu People, China: CAS)

14:30-15:30 **PS04 Brain PET**

Chairs Prof. Jae Seung Kim (Asan Medical Center, University of Ulsan College of Medicine, Korea)
Prof. Mark Lubberink (Uppsala University, Sweden)

PS04-I-02 **Synaptic density is lower in virally suppressed people with HIV: Cross-sectional and longitudinal [11C]UCB-J PET**
Nakul R. Raval (Yale University, USA)

PS04-I-04 **Exercise partially restores altered metabolic connectivity in Parkinson's disease**
Connor W. J. Bevington (University of British Columbia, Canada)

PS04-I-06 **Development and evaluation of a novel TSPO PET tracer [18F]BS224 in normal controls**
Yoo Sung Song (Seoul National University Bundang Hospital, Korea)

PS04-I-08 **Impact of clinical covariates on 11C-ER176 TSPO tracer metabolism and concentration**
Zanetta Kovbasyuk (NYU Langone Medical Center, USA)

PS04-J-02 **The impact of metabolite kinetic model fitting on 11C-ER176 TSPO tracer quantification**
Zanetta Kovbasyuk (NYU Langone Medical Center, USA)

PS04-J-04 **PET-based risk assessment for dementia conversion in Parkinson's disease with mild cognitive impairment**
Seunggyun Ha (Seoul St.Mary, Korea)

PS04-J-06 **Neurofibrillary tau burden modeled using standardized beta-amyloid chronicity timeline in the Down syndrome population**
Max McLachlan (University of Wisconsin - Madison, USA)

PS04-J-08 **Radiomics features of eyeball images from brain amyloid PET**
Jahae Kim (Chonnam National University Hospital and Medical School, Korea)

PS04-J-10 **Association of striatal dopamine and cholinergic basal forebrain with brain metabolism and cognition in Parkinson's disease**
Chul Hyoung Lyoo (Gangnam Severance Hospital, Yonsei University College of Medicine, Korea)

PS04-J-12 **In vivo evaluation of affinity changes of imidazoline Type-2 receptors in a rodent model of astrocyte reactivity using [11C]BU99008 PET imaging**
Nadja Van Camp (Laboratoire des Maladies Neurodégénératives, Fontenay-aux-Roses, France)

PS04-J-14 **Characterization of cerebral arteriovenous malformation and the secondary injury after surgical resection in rats by multimodal imaging**
Abraham Martin (Achucarro Basque Center for Neuroscience, Spain)

PS04-K-02 **Preliminal study of structure-based metabolites prediction for CNS-PET tracers**
Wataru Kageyama (Tohoku University, Japan)

PS04-K-04 **Comparison of FP-CIT PET features in RBD and normal individuals**
Hyojung Kim (Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)

PS04-K-06 **EU tracer factory**
Nadja Van Camp (Rigshospitalet, DE; K. Chatalic, Radboud Translational Medicine, NL; O. Kiss, Helmholtz-Zentrum, GE, Netherlands)

PS04-K-08 **Spatial variation in EC50 and upregulation images from single- and repeat-dose occupancy studies**
Alaaddin Ibrahimy (Yale University, USA)

PS04-K-10 **Autoradiography informed simulated [F-18]MK6240 images demonstrate detectable tauopathy in entorhinal cortex**
Andrew McVea (University of Wisconsin - Madison, USA)

PS04-L-02 **Imaging vaping-induced dopamine responses with the NeuroExplorer and novel time-varying kinetic models**
Gaelle M. Emvalomenos (Yale University, USA)

PS04-L-04 **Sex differences of smoking-induced dopamine release identified with voxel-wise time-varying models including a bayesian framework**
Gaelle M. Emvalomenos (Yale University, USA)

PS04-L-06 **Image-derived input functions for [^{18}F]LW223 PET in the rodent determined using an autoencoder**
Jan Kutos (University of Edinburgh, UK)

PS04-L-08 **Imaging biomarker for predicting conversion from mild cognitive impairment to Alzheimer's disease**
Sunju Choi (Kyung Hee University Hospital, School of Medicine, Korea)

PS04-L-10 **Clinical factors affecting dopamine transporter binding in large scale cohort of symptomatic controls with visually normal [^{18}F]FP-CIT PET**
Koeun Lee (Kangbuk Samsung Hospital, Korea)

BRAIN & BRAIN PET 2025

POSTER PRESENTATION

Wednesday, June 4, 2025

- SET-UP: June 4, 07:00 - 09:00 AM
- PRESENTATION:
  - PS05: June 4 (Wed), 10:00 - 11:00 AM
  - PS06: June 4 (Wed), 15:00 - 16:00 PM
  * Poster presenters should be present at your poster at the above time.
- REMOVAL: June 4, 16:00 - 17:00 PM
  * Any posters remaining after 17:00 PM will be removed and discarded by the staff.

PS05

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F-07 - H-07	Physiology	123 - 124
H-09 - H-13, I-07 - I-13	Techniques	124
I-01 - I-05, J-01 - J-13, K-05 - K-09	Therapies and Biomarkers	125 - 126
K-01 - K-03, L-01 - L-09	Brain PET	126

PS06

BOARD NO.	TOPIC	PAGE
A-02 - F-04	Pathology	127 - 130
F-06 - I-08	Physiology	130 - 132
I-10 - J-08	Techniques	132
J-10 - L-12	Therapies and Biomarkers	132 - 133

10:00-11:00 **PS05** **Pathology**

Chairs
Dr. Benjamin Le Gac (University of Montréal, Canada)
Dr. Eng H. Lo (Massachusetts General Hospital, USA)
Dr. Anusha Mishra (Oregon Health & Science University, USA)
Prof. William J. Pearce (Loma Linda University School of Medicine, USA)

PS05-A-01 **Cerebral metabolic rate of oxygen (CMRO2) is associated with tau deposition in older individuals**
Yi Wang (Weill Cornell Medicine, USA)

PS05-A-03 **Neural mechanisms of acupuncture stimulation on cognitive reserve using FNIRS**
Dong Hyuk Lee (Sangji University, Korea)

PS05-A-05 **Establishing Alzheimer's disease model evaluation platform in non-human primates: From pathological assessment to behavioral test**
Yu Gyeong Kim (Korea Research Institute of Bioscience and Biotechnology, Korea)

PS05-A-07 **Pathologic tau and lipid accumulation: Unraveling their link in Alzheimer's disease**
Ji-Yeong Lee (Ajou University School of Medicine, Korea)

PS05-A-09 **Differentiating tau monomers and fibrils using MRI**
Youngeun Jeon (KAIST, Korea)

PS05-A-11 **Phytoestrogen prunetin enhances stroke recovery by improving mitochondrial function and blood-brain barrier integrity**
Seo hyun Kim (Sookmyung Women, Korea)

PS05-A-13 **Estrogen-TFEB mediated autophagy enhances recovery from cerebral ischemia and neuronal damage after TMCAO in mice**
So hyeon Choi (Sookmyung Women, Korea)

PS05-B-01 **Effects of chronic high-fat diet and pemafibrate treatment on stroke outcomes**
Nerea Chaparro-Cabanillas (IIBB-CSIC, Spain)

PS05-B-03 **Cerebral vascular diameter and flow irregularities due to ischemic stroke after middle cerebral artery occlusion**
Ed van Bavel (Amsterdam Medical Center, Netherlands)

PS05-B-05 **Protective effects and mechanisms of dengzhanxixin injection on ischemic brain injury in mice**
Xiangrong Liu (Beijing Tiantan Hospital, Capital Medical University, Beijing, China: CAS)

PS05-B-07 **The M6A binding protein YTHDFs alleviates permanent cerebral ischemic injury through the fignl2 gene**
Mingshan Wang (China National Clinical Research Center for Neurological Diseases, Beijing Tiantan Hospital, Capital, China: CAS)

PS05-B-09 **Mechanisms of HDAC1/2-mediated lactylation modification in regulating microglial heterogeneity to promote neurological impairment after TBI**
Jingjing Wu (Shanghai Pulmonary Hospital, School of Medicine, Tongji University, Shanghai, China, China: CAS)

PS05-B-11 **The hyper-excitable neuron in glioma environment is promoted by glioma-activated microglia**
Jaeseung Yei (Sungkyunkwan Univ., Korea)

PS05-B-13 **A comparative study of the size-dependent potential of nanoplastics and microplastics to induce Parkinson's disease**
Hyeju Jeong (Korea Institute of Radiological Medical Sciences (KIRAMS), Korea)

PS05-C-01 **Identification of oligodendrocyte and myelin deficits in NG2DsRed transgenic mice**
Jake Cashion (University of Tasmania, Australia)

PS05-C-03 **Inhibiting C1q-C3 signaling attenuates neurodegeneration in a mouse model of chronic epilepsy**
Yoonyi Jeong (Sungkyunkwan University, Suwon 16419, Korea)

PS05-C-05 **Characterising the long-term blood-brain-barrier alterations associated with secondary neurodegeneration in ischaemic stroke using MRI**
Rosie Costigan-Dwyer (University of Adelaide, Australia)

PS05-C-07 **GAPDH-mediated neurotoxicity in ischemic stroke: Role of CSF aggregates in apoptotic pathway activation**
Vladimir F. Lazarev (Institute of Cytology Russian Academy of Sciences, Russian Federation)

PS05-C-09 **Impact of prior gut dysfunction on nigrostriatal neurodegeneration and inflammation in an experimental model of Parkinson's disease**
Cassandra Kaufhold (Texas A&M University, USA)

PS05-C-11 **Thinking outside the brain: Investigating post-stroke secondary neurodegeneration and the contribution of the microbiota-gut-brain axis in an ovine model**
Rebecca Hood (The University of Adelaide, Australia)

PS05-C-13 **Glioblastoma-driven vascular remodeling leads to cerebral blood flow dysfunction**
Seong-Eun Ryu (Sungkyunkwan University (SKKU), Korea)

PS05-D-01 **Microglia dynamics in P301S tauopathy mouse model of Alzheimer's disease**
Haijie Yang (Ajou University School of Medicine, Korea)

PS05-D-03 **Mapping upstream of midbrain dopaminergic neurons in PINK1 knockout mice using viral tracing**
Yiseul Bae (Ajou University School of Medicine, Korea)

PS05-D-05 **Monitoring of neuronal and axonal health in vivo using two-photon FLIM**
Henri S. Zanker (University of Zurich, Switzerland)

PS05-D-07 **Single-cell and spatial transcriptomic profiling reveals cell type-specific changes in Korean Parkinson's disease**
Sooyeon Yoo (Seoul National University Hospital, College of Medicine, Korea)

PS05-D-09 **Maternal high-fat diet induces neuroinflammaging and immune reprogramming in offspring**
Joo Young Kweon (POSTECH, Korea)

PS05-D-11 **Losartan attenuates hippocampal blood-brain barrier disruption and neuroinflammation in a mouse model of colitis**
Garam Choi (Yeungnam university pharmacy, Korea)

PS05-D-13 **IGFBPL1 in nociceptive neurons drives neuropathic pain through IGF1R signaling**
Emmanuel Acquah (Gwangju Institute of Science and Technology, Korea)

PS05-E-01 **Identification and characterization of a translational mouse model for blood-brain-barrier leakage in small vessel disease**
Amanda Kiliaan (Radboudumc, Donders Institute for Brain, Cognition & Behavior, Preclinical Imaging Center, Netherlands)

PS05-E-03 **Stroke risk in inflammatory bowel disease: A nationwide cross-sectional analysis**
Zheqin Li (University of Manchester, UK)

PS05-E-05 **Surgical strategy of flow diversion with bypass for difficult unclippable aneurysms**
Atsushi Saito (Hirosaki University Graduate School of Medicine, Japan)

PS05-E-07 **Endovascular embolization technique for distal anterior inferior cerebellar artery aneurysm with parent patency**
Daiki Takenami (Hirosaki University Graduate School of Medicine, Japan)

PS05-E-09 **Vascular pathology and glycocalyx disruption in cerebral small vessel disease and vascular dementia**
Miruna Burduja (The University of Manchester, UK)

PS05-E-11 **Increased capillary tortuosity, diameter, KATP channel activity with cortical hypoperfusion in cerebral small vessel disease**
Danielle Jeffrey (University of Colorado Anschutz Medical Campus, USA)

PS05-E-13 **Altered vasomotion and impaired CO2 reactivity in a novel CADASIL mouse model**
Alexandra Schwarz (Laboratory of Experimental Stroke Research, Munich, Germany)

PS05-F-01 **Prunus cerasoides and its active ingredient prunetin ameliorate neurovascular glial unit via PI3-Akt in vascular dementia in mice**
Hyeon Ju Jeong (Sookmyung Women's University, Korea)

PS05-F-03 **White matter hyperintensity-associated iron overload links glymphatic system dysfunction to cognitive impairment in cerebral small vessel disease**
Yage Qiu (Renji Hospital Affiliated to Shanghai Jiao Tong University School of Medicine, China: CAS)

PS05-F-05 **Regional brain blood vessel proteome alterations in cerebral small vessel disease**
Austėja Čiulkinytė (University of Edinburgh, UK)

10:00-11:00 **PS05 Physiology**

Chairs Prof. Joseph C. LaManna (Case Western Reserve University, USA)
Prof. Ravi Rungta (University of Montreal, Canada)

PS05-F-07 **Intracerebrovascular pulsatility, vasoreactivity and reactive oxygen species**
Nicolas barbeau (Université de Montréal, Canada)

PS05-F-09 **Sex differences in brain hemodynamics, behavior, and inflammatory profiles in aged mice**
Eugenio Gutiérrez-Jiménez (Aarhus University, Denmark)

PS05-F-11 **Astrocyte glut1 as a potential therapeutic target for glut1 deficiency syndrome**
Shoko Tamura (Tokyo Metropolitan Institute of Medical Science, Japan)

PS05-F-13 **Fueling white matter: Insights into distinct metabolic roles of oligodendrocytes, astrocytes, and axons**
Zainab Faik (University of Zurich, Switzerland)

PS05-G-01 **In vivo imaging of CB1-dependent modulation of brain metabolism**
Tommaso Dalla Tor (Inserm U1215, Bordeaux, France)

PS05-G-03 **In vivo FAD imaging to assess neuronal energy metabolism in APP/PS1 mice at single-cell resolution**
Jin-Moo Lee (Washington University in St. Louis, USA)

PS05-G-05 **In-vivo imaging of NADPH dynamics with a fluorescent lifetime sensor**
Jan Dernic (University of Zurich, Switzerland)

PS05-G-07 **Cerebral hemodynamic and oxygenation response to infusion test in patients with idiopathic normal pressure hydrocephalus**
Turgut Durduran (ICFO-The Institute of Photonic Sciences, Spain)

PS05-G-09 **Pleiotropic oxidized carbon nanozymes enhance aerobic and ketogenic metabolism in-vitro and in-vivo in contused brain**
Karthik Mouli (Texas A&M University College of Medicine, USA)

PS05-G-11 **The assoociations between glymphatic function, brain age, and sleep efficiency in cognitively normal adults**
Hanna Lu (The Chinese University of Hong Kong, Hong Kong)

PS05-G-13 **Posture-dependent CSF velocity measurement in the optic nerve subarachnoid space using multi-delay 2D interslice saturation MRI**
Minjae Kim (Korea Advanced Institute of Science and Technology, Korea)

PS05-H-01 **An automatic and reproducible mapping of CSF pulsatility in EPI-fMRI using standard deviations**
Dong-Ho Shin (KAIST, Korea)

PS05-H-03 **Prediction of psychiatric disorder onset through the assessment of vascular integrity**
Shinobu Hirai (Tokyo Metropolitan Institute of Medical Science, Japan)

PS05-H-05 **Cerebrovascular adaptations to repeated hypoxia in the southern elephant seal raise new questions on the neurodegenerative process**
Jérôme Badaut (University of Bordeaux, France)

PS05-H-07 **A coupled diffusion approximation for spatiotemporal hemodynamic response and deoxygenated blood volume fraction in microcirculation**
Maryam Samavaki (Tampere University, Finland)

10:00-11:00 **PS05** **Techniques**

Chair Prof. Euiheon Chung (Gwangju Institute of Science and Technology, Korea)

PS05-H-09 **A novel method to construct vascularized brain organoid for studying the interactions between blood vessels and neurodevelopment**
Shiyu Deng (Shanghai Jiaotong University, China: CAS)

PS05-H-11 **Aging of the blood-brain barrier (BBB) via reactive oxygen species (ROS) stimulation**
Eun U Seo (KIST, Korea)

PS05-H-13 **An in vitro microfluidic platform mimicking 3D unidirectional neural circuits-based 3D hydrogel patterning for brain pathology**
Kyeong Seob Hwang (Korea Institute of Science and Technology, Korea)

PS05-I-07 **Evaluation of size-dependent uptake, transport and cytotoxicity of polystyrene microplastic in a blood-brain barrier (BBB) model**
Yeongseon Cho (Korea Institute of Science and Technology, Korea)

PS05-I-09 **Data augmentation for cardiac PET/MRI fusion images using autoencoder-based reconstruction**
Sihyun Lee (GIST, Korea)

PS05-I-11 **High-resolution sampling of vascular caliber changes following optogenetic actuation reveals heterogeneity of vessel responses**
Matthew Rozak (University of Toronto, Canada)

PS05-I-13 **Electrophysiological irregularities in motor circuit correlate with behavioral deficits in APP mice**
Akm Ashiquzzaman (GIST, Korea)

10:00-11:00 **PS05** **Therapies and Biomarkers**

Chairs Dr. Stefano Fumagalli (Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Italy)
Dr. Bojana Stefanovic (Sunnybrook Research Institute, Canada)

PS05-I-01 **Mild hypercapnia before reperfusion reduces ischemia-reperfusion injury in hyperacute ischemic stroke rat model**
Hyo Suk Nam (Yonsei University College of Medicine, Seoul, Korea, Korea)

PS05-I-03 **A high fibre diet following photothrombotic stroke does not improve outcomes in female mice**
Charlotte MO Barker (Monash University, Australia)

PS05-I-05 **Investigating the effects of centella asiatica on cerebrovascular function in aging mice**
Benjamin Zimmerman (National University of Natural Medicine, USA)

PS05-J-01 **Synergistic enhancement of post-stroke recovery of motor functions through combined PTEN deletion and increasing neural activity in the peri-infarct cortex in mice**
Byung Gon Kim (Ajou University School of Medicine, Korea)

PS05-J-03 **Preclinical trial of transcranial magnetic stimulation therapies for the promotion of limb recovery after stroke**
Linda Reiland (University Medical Center Utrecht, Netherlands)

PS05-J-05 **Evaluation of PCSK9 expression and inflammatory markers after cerebral ischemia-reperfusion injury**
Masanari Shirafuji (Tokai Unversity, Japan)

PS05-J-07 **Brain angiogenesis induced by non-viral gene therapy leads brain damage recovery following experimental ischemic stroke**
Abraham Martin (Achucarro Basque Center for NeuroSCIence, Spain)

PS05-J-09 **Microvascular shunts and restoration of blood flow in injured tissue by a drag-reducing polymer**
Edwin Nemoto (University of New Mexico, USA)

PS05-J-11 **Endocannabinoid signaling as a therapeutic target for blood-brain barrier repair and seizure management in epilepsy**
Bjoern Bauer (University of Kentucky, USA)

PS05-J-13 **ECT activates Gut-Microbiota-Driven neurovascular repair via PET-CBF imaging**
Jinyan Guo (The Third Affiliated Hospital of Sun Yat-Sen University, China: CAS)

PS05-K-05 **Neuropeptide FF as a potential therapeutic target for ischemic stroke: Enhancing neuronal survival and synaptic function**
In-Ae Choi (Division of Health, Baekseok University, Korea)

PS05-K-07 **Effects of FHL2 deficiency on TPA-mediated thrombolysis and hemorrhagic complication**
Seungbum Choi (Dongguk University Ilsan Hospital, Korea)

PS05-K-09 **Transcriptomic analysis of the post-stroke mouse brain and the effect of human amnion epithelial cell therapy**
Shenpeng R Zhang (Centre for Cardiovascular Biology and Disease Research, La Trobe University, Australia)

10:00-11:00 **PS05 Brain PET**

Chair Prof. Swen Hesse (University Medical Center, University of Leipzig, Germany)

PS05-K-01 **Data-driven motion correction for static and dynamic brain PET imaging: A multi-tracer study**
Yizhang Zhao (United Imaging Healthcare CO., Ltd., China: CAS)

PS05-K-03 **A data-driven SSM/PCA analysis approach for differential diagnosis of Parkinsonism using 11C-PE2I PET**
Linus Falk (Uppsala University, Sweden)

PS05-L-01 **Occipital enlarged perivascular spaces associated with cognitive decline, neurodegeneration and tau pathology in aging and Alzheimer's disease**
Young Hee Jung (Hallym University Sacred Heart Hospital, Korea)

PS05-L-03 **Translocator protein positron emission tomography imaging and in vitro expression in patients with brain metastases**
Paolo Zanotti Fregonara (Perceptive Inc, France)

PS05-L-05 **In vivo astrocyte imaging with 18F SMBT-1 PET in the Alzheimer's disease continuum**
Yingying Wu (Tohoku University, Japan)

PS05-L-07 **Stress-induced dorsal striatal dopamine release is associated with changes in functional connectivity to the prefrontal cortex in nicotine-dependent individuals**
Evan D Morris (Yale University, USA)

PS05-L-09 **Default mode network connectivity in child sexual offenders and sexual offenders against women**
Clara C. Stein (LWL-University Hospital Bochum, Germany)

15:00-16:00 **PS06 Pathology**

Chairs Dr. Benjamin Le Gac (University of Montréal, Canada)
Dr. Eng H. Lo (Massachusetts General Hospital, USA)
Dr. Anusha Mishra (Oregon Health & Science University, USA)
Prof. William J. Pearce (Loma Linda University School of Medicine, USA)

PS06-A-02 **Simultaneous WF-Ca2+ and BOLD-fMRI reveals modality-specific and sex-based differences in prodromal Alzheimer's disease**
Francesca Mandino (Yale University School of Medicine, USA)

PS06-A-04 **Efficacy and sustain ability of 40 hz high-definition transcranial alternating current stimulation (tACS) in the treatment of sleep disturbances in mild neurocognitive disorders due to Alzheimer's disease**
Hanna Lu (The Chinese University of Hong Kong, Hong Kong)

PS06-A-06 **Influences of early exercise intervention on cognition in Alzheimer's disease model mice**
Yong Jeong (KAIST, Korea)

PS06-A-08 **The effects of plasmalogens on improvement of clearance of beta-amyloid and cognitive function**
Viktoria Adushkina (Saratov State University, Russian Federation)

PS06-A-10 **Impaired mitochondrial energy metabolism related to astrocyte in the brain of Alzheimer's disease**
Maiko Ono (National Institutes for Quantum Science and Technology, Japan)

PS06-A-12 **Evaluating longitudinal amyloid burden when transitioning between PET B-amyloid radiotracers [11C]PiB and [18F]NAV4694**
Brecca Bettcher (University of Wisconsin-Madison, USA)

PS06-A-14 **Deep cervical lymph-venous anastomosis improves cognitive function in Alzheimer's disease patients**
Mian Guo (The second affiliated hospital of Harbin Medical University, China: CAS)

PS06-B-02 **In vivo assessment of oxidative stress in astrocytes due to abeta pathology in Alzheimer's disease**
Maria V. Sanchez-Mico (Massachusetts General Hospital (MGH) / Harvard Medical School (HMS), USA)

PS06-B-04 **Characterization of a novel PSEN1 Thr119Ile mutation mouse model for early-onset Alzheimer's disease**
Eunji Kim (Pusan National University, Yangsan, Gyeongnam 50612, Korea)

PS06-B-06 **Direct modulation of PD-1/PD-L1 axis affects adult hippocampal neurogenesis in a mouse model of Alzheimer's disease**
Seung Won Chung (Sungkyunkwan University, Korea)

PS06-B-08 **Glial PD-1/PD-L1 modulation restores microglial function and reduces neuronal hyperactivity in an 5xFAD model**
Taeyoung Park (Sungkyunkwan University (SKKU), Korea)

PS06-B-10 **Motor network integrity predicts physical and cognitive performance in older adults at risk for Alzheimer's disease**
Pavel Yanev (University of Kentucky College of Medicine, USA)

PS06-B-12 **How does a mild decrease in brain oxygen supply constrain hippocampal function?**
Letitia McMullan (University of Sussex, UK)

PS06-B-14 **The role of neuronal stochasticity in cognitive impairment due to Alzheimer's disease pathology**
Keying Chen (Sunnybrook Health Sciences Centre, Canada)

PS06-C-02 **The neurophysiological underpinnings of brain resilience: A deep phenotyping FMRI study of AD pathology progression**
Emma Pineau (University of Toronto, Canada)

PS06-C-04 **Tau burden as a mediator of the association between glymphatic dysfunction and cognitive impairment: A cross-sectional and longitudinal study**
Young Noh (Neuroscience Research Institute,Gachon University, Incheon, Korea)

PS06-C-06 **Caloric restriction preserves BBB integrity after transient focal cerebral ischemia through reducing neutrophil infiltration**
Chenran Wang (Fudan University, China: CAS)

PS06-C-08 **Zoledronic acid attenuates ischemic brain injury through Ets2/MSR1 pathway**
Eri Tanaka (Medical Research Laboratory, Institute of Science Tokyo, Japan)

PS06-C-10 **Cadmium-induced iron dysregulation and mitochondrial dysfunction as a potential contributor to aggravating ischemic stroke injury**
Junkyung Gil (Hanyang university, Ansan, Korea)

PS06-C-12 **Upregulating a SPP1+ inflammatory microglia/myeloid with semaglutide attenuates neuroinflammation in perioperative stroke**
Qiuyue Fan (Renji Hospital, Shanghai Jiaotong University School of Medicine, China: CAS)

PS06-C-14 **Dynamic neuro-glial-vascular responses in a mouse model of vascular cognitive impairment**
Ki Jung Kim (Intitute for Basic Science, Korea)

PS06-D-02 **Fabp5 mediates lipid metabolism to drive microglia phenotype transition and neuroinflammation by activating ATF3 signaling in the CNS injury**
Yan Li (Department of Anesthesiology, Renji Hospital, Shanghai Jiaotong University School of Medicine, Shanghai 200127, China: CAS)

PS06-D-04 **Comparative gene expression in human versus rodent in vitro ischemic stroke models**
Changhong Xing (University of Utah, USA)

PS06-D-06 **The role of chronic oxygen and glucose deprivation in an in vitro neuronal PC12 Cell-line model for VaD**
Rebecca Edwards (Keele University, UK)

PS06-D-08 **Optimization and characterization of focal cortical stroke models using two-photon imaging**
María Ardaya (Donostia International Physics Center (DIPC), Spain)

PS06-D-10 **Neuroprotective effects of astragalus mongholicus and scutellaria baicalensis extracts in ischemic stroke**
Geon Ko (Gachon Advanced Institute for Health Sciences and Technoogy, Korea)

PS06-D-12 **Duration-dependent effects of systemic IL-1β on cerebral perfusion and platelet aggregation post-MCAO**
Ohud Saleh (University of Jeddah, Jeddah 21577, Saudi Arabia)

PS06-D-14 **Alcohol and e-cigarette induce release of extracellular vesicles and their plasminogen urokinase content injuring BBB**
Yuri Persidsky (Temple University School of Medicine, USA)

PS06-E-02 **RNF213-mediated autophagy impairment and endothelial dysfunction under inflammatory and metabolic stress conditions**
Seo Jeong Eun (Ajou University Graduate School of Medicine, Korea)

PS06-E-04 **Endothelial dysfunction in the Dp16 down syndrome mouse model**
Abigail Russell (University of Colorado Anschutz Medical Campus, USA)

PS06-E-06 **Exposure to new generation of eternal pollutant induces neuroinflammation and behaviour alterations in vertebrates**
Jérôme Badaut (Centre d'Études Biologiques de Chizé, Université de La Rochelle, France)

PS06-E-08 **Fibrin(ogen) accelerates inflammatory-mediated vascular remodeling in a mouse model of cerebral amyloid angiopathy**
S. Eugene Kim (Massachusetts General Hospital, Harvard Medical School, USA)

PS06-E-10 **CTRP9 (C1q/TNF-Related Protein 9) promotes angiogenesis and neuroprotection by restoring pericyte function after epilepsy**
Hyun Wook Yang (Department of Physiology, Hallym University, College of Medicine, Chuncheon, Korea)

PS06-E-12 **Recanalization after completely thrombosed ruptured middle cerebral artery dissecting aneurysm**
Hazuki Hirakawa (Hirosaki University Graduate School of Medicine, Japan)

PS06-E-14 **False lumen stenting to the acute occlusive carotid artery dissection combined with intracranial acute embolic stroke**
Ryuichi Munakata (Hirosaki University Graduate School of Medicine, Japan)

PS06-F-02 **Galectin 3 mediates lysosome-related inflammation in monocyte-derived macrophages after acute ischemic brain injury**
Miao Wang (University of Pittsburgh, USA)

PS06-F-04 **Eclampsia and preeclampsia are associated with blood brain barrier disruption in women and in a rat model of preeclampsia**
Owen Herrock (University of Gothenburg, Sweden)

15:00-16:00 **PS06 Physiology**

Chairs Prof. Joseph C. LaManna (Case Western Reserve University, USA)
Prof. Ravi Rungta (University of Montreal, Canada)

PS06-F-06 **Neuropil distributions in the human brain predict resting-state functional networks**
Brian Chang (Yale University, USA)

PS06-F-08 **Environmental constraints on the glymphatic system and sleep ontogenies in southern elephant seal**
Jérôme Badaut (University of Bordeaux, France)

PS06-F-10 **Transgenic B cell expressing human CD20 alters neuronal function in the absence of pathology**
Jenny Lutshumba (University of Kentucky, USA)

PS06-F-12 **Methodological considerations for the use of dexmedetomidine sedation for functional magnetic resonance imaging in aged fischer 344 rats**
Emma Pineau (University of Toronto, Canada)

PS06-F-14 **Dll4 maintains cerebrovascular homeostasis by regulating endothelial transcriptomic and epigenetic landscapes**
Kangmin Lee (Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea)

PS06-G-02 **Evolution of spatiotemporal cortical dynamics in mice learning operant motor tasks**
Evan Morris (Washington University in St. Louis, USA)

PS06-G-04 **Astrocyte-mediated synaptic trogocytosis via engineered ligand-receptor system: impact on memory in aged mice**
Songhee Choi (KAIST, Korea)

PS06-G-06 **The influence of internal state changes on social behavior**
Subeen Shin (KAIST, Korea)

PS06-G-08 **Spatio-temporal imbalance of red blood cell occupancy in cerebral capillaries of venous proximity under moderate dehydration**
Hiroki Suzuki (Graduate School of Informatics and Engineering, University of Electro-Communications, Japan)

PS06-G-10 **Brain collection procedures in metabolomic studies – Reestablishing standards**
Thaddeus S. Nowak, Jr. (University of Tennessee Health Science Center, USA)

PS06-G-12 **Mitochondrial (dys)function of brain capillaries in aging and oxidative stress: Role of mitochondrial transfer**
Brad Hubbard (University of Kentucky, USA)

PS06-G-14 **Cancer and chemotherapy induced changes in cerebral metabolism in patients with diffuse large B-Cell lymphoma**
Seunggyun Ha (Seoul St. Mary, Korea)

PS06-H-02 **Establishment of a mouse in vitro model of neuropathic pain for mechanistic and translational research**
Yejin Kim (GIST, Korea)

PS06-H-04 **Intra- and extra-cranial lymphatics for cerebrospinal fluid drainage**
Jin-Hui Yoon (Institute for basic SCIence, Korea)

PS06-H-06 **Non-invasive tracking of calcium dynamics at the choroid plexus with manganese-enhanced MRI**
Charith Perera (University College London, UK)

PS06-H-08 **Data-driven segmentation and dynamic contrast analysis of choroid plexus and adjacent regions using manganese-enhanced SORDINO MRI**
Sung-Ho Lee (University of North Carolina at Chapel Hill, USA)

PS06-H-10 **Low frequency fourth ventricle cerebrospinal fluid inflow and vascular reactivity in CAA**
Thijs van Harten (Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA)

PS06-H-12 **Role of the wiskott-aldrich syndrome protein (WASp) in microglia phagocytic functions during neurodevelopment**
Serena Seminara (Istituto di Ricerche Farmacologiche Mario Negri, Italy)

PS06-H-14 **P2 purinergic receptor activation rectifies autism-associated brain endothelial dysfunction**
Julie Ouellette (Ottawa Hospital Research Institute, Canada)

PS06-I-02 **Astroglial VEGF regulates postnatal cerebrovascular development in mice**
Moises Freitas-Andrade (The Ottawa Hospital Research Institute, Ottawa, ON, Canada)

PS06-I-04 **Neuronal activity-driven shift from angiogenesis to vascular maturation through metabolic changes**
Namsuk Kim (Korea Brain Research Institute, Korea)

PS06-I-06 **Longitudinal intravital imaging of neurovascular unit and blood flow alterations following cerebral microinfarction**
Jieun Choi (KAIST, Korea)

PS06-I-08 **NOTCH3 signaling mediates pericyte-to-vascular smooth muscle cell transition in human induced pluripotent stem cell model**
Jaeeun Han (Yonsei University College of Medicine, Korea)

15:00-16:00 **PS06 Techniques**

Chair Prof. Euiheon Chung (Gwangju Institute of Science and Technology, Korea)

PS06-I-10 **Towards validation of hemodynamic simulation framework based on biological data**
Vanja Curcic (UMC Utrecht, Netherlands)

PS06-I-12 **Development of a microfluidic device model to emulate cerebral artery structure**
Hyelim Kim (KIST, Korea)

PS06-I-14 **Cryopreservation of primary rat oligodendrocyte lineage cells**
Hanki Kim (Ajou University, Korea)

PS06-J-02 **Integrating HD MEA recordings and optical imaging for comprehensive neural activity analysis for neuropathic pain**
An Nazmus Sakib (Gwangju Institute of Science and Technology, Korea)

PS06-J-04 **Post-stroke functional rewiring of sensorimotor circuits via PV+ inhibitory stimulation**
Eunbin Lee (Gwangju institute of science and technology (GIST), Korea)

PS06-J-06 **Restormer-based deep learning model for DSC MRI artifact correction**
So-Jeong Kim (KAIST, Korea)

PS06-J-08 **Quantitative mapping for balanced steady state free precession MRI using physics-based neural network**
Hye-Ryeong Choi (KAIST, Korea)

15:00-16:00 **PS06 Therapies and Biomarkers**

Chairs Dr. Stefano Fumagalli (Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Italy)
Dr. Bojana Stefanovic (Sunnybrook Research Institute, Canada)

PS06-J-10 **Microvascular shunts in the pathogenesis of vascular disease**
Edwin Nemoto (University of New Mexico, USA)

PS06-J-12 **Ultra-high-frequency magnetic stimulation (UHFMS): A promising approach for enhancing functional recovery in chronic capsular infarction**
Zohaib Atif (Gwangju Institute of Science and Technology, Korea)

PS06-J-14 **Wearable implants for therapeutic delivery of subcutaneous alternating current stimulation in a rat model of stroke recovery**
Monica Bell Vila (University of Toronto, Canada)

PS06-K-02 **Protection of blood-brain barrier by inhibition of DNA methylation in hemorrhagic stroke**
In-Ae Choi (Baekseok University, Korea)

PS06-K-04 **Effect of calcitonin gene-related peptide receptor inhibitor on the prognosis of cerebral infarction**
Hye-Jung Kook (Chonnam National University, Korea)

PS06-K-06 **Methodology of selective brain cooling by intranasal instrument in traumatic brain injury: Mathematical approach to predict outcomes**
Olivia Tong (Western University, Canada)

PS06-K-08 **Modulation of cytotoxic T cells by Poly-Glu/Tyr attenuates neuroinflammation following ischemic stroke**
Jong Eun Lee (Yonsei University College of Medicine, Korea)

PS06-K-10 **Investigating concordance between preclinical multicentre confirmatory trials and systematic reviews in stroke**
Torsten Rackoll (Berlin Institute of Health at Charité, Germany)

PS06-L-02 **Delivery of a therapeutic peptide across the blood-brain barrier for treatment of Alzheimer's disease**
Gert Fricker (Heidelberg University, Germany)

PS06-L-04 **Gut microbiota mediates the protective effects of exercise after stroke**
Li Yao (Xuanwu Hospital, Capital Medical University, 100053, Beijing, China: CAS)

PS06-L-06 **Dissecting cortical processing of dual pain states: Functional MRI analysis of S1(Somatosensory Cortex 1) and PFC(Prefrontal Cortex) in a DN+CCI mouse model**
Seungjun Lee (Gwangju Institute of Science and Technology, Korea)

PS06-L-08 **Neuroprotective effects of astragalus mongholicus on ischemic stroke recovery: Evidence from MRI, MRS, and multimodal analysis**
Yongjae Hong (Gachon University, Korea)

PS06-L-10 **S1176 Phospho-eNOS-dependent therapeutic mechanisms of low-power near-infrared laser treatment in ischemic stroke**
Dmitriy N. Atochin (Veterans Affairs Boston Healthcare System and Harvard Medical School, USA)

PS06-L-12 **Cortical neurons induce both CD103+ tissue-resident memory and CD73+ exhausted CD8+ T cell phenotypes to suppress inflammatory responses**
Myung-Shin Jeon (Inha University, Korea)

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2 Compared to Ingenia Elition X with Vega HP gradients.
3 Requires an unobstructed line-of-sight.
4 Caution: Investigational device for imaging with fluorine (19F) and xenon (129Xe). Limited by federal (or United States) law to investigational use. Clinical imaging with these nuclei requires usage of a cleared drug. No FDA-cleared drugs are currently available for these nuclei.

Hanmi 한미약품

- **세계 최초** Rosuvastatin+Ezetimibe 복합제의 **CV Outcome 발표** 2)
- 국내사 개발 **전문의약품 최초** 원외처방조제액 **전체 1위** 1)
- 국내 환자 대상 로수젯 임상 연구 결과 **16편, SCIE급 저널 등재** (2025년 3월 기준)
- 한미약품 **R&D** 및 자체 생산을 통한 **Global 진출**

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CV, cardiovascular; **SCIE**, Science Citation Index Expanded; **R&D**, research and development

Ref 1) UBIST D1 Sale 데이터. 2024년 원외처방조제액 기준. **2)** Kim BK, et al. *Lancet*. 2022 Jul;400(10349):380-390.

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Ref. 1. Hou X, *et al., J Clin Neurosci.* 2021;90:225-32. 2. Zhang X, *et al., JAMA Neurol.* 2024;81(2):e118-125. 3. Kim J, *et al., World Neurosurg.* 2019;132:e341-e349. 4. Cui Y, *et al., Neurotherapeutics.* 2024 Jun 7:e00382.

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References 1. Amarenco P, et al. *N Engl J Med.* 2016;374(16):1533-1542. 2. Wu L, et al. *J Neurol Neurosurg Psychiatry.* 2024;95(6):529-535. 3. Giugliano RP, et al. *Stroke.* 2020;51:1546-1554.

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References. 1. 기넥신에프정240mg 허가정보. 의약품안전나라. [Cited 2021.01.15] Available from: https://nedrug.mfds.go.kr/

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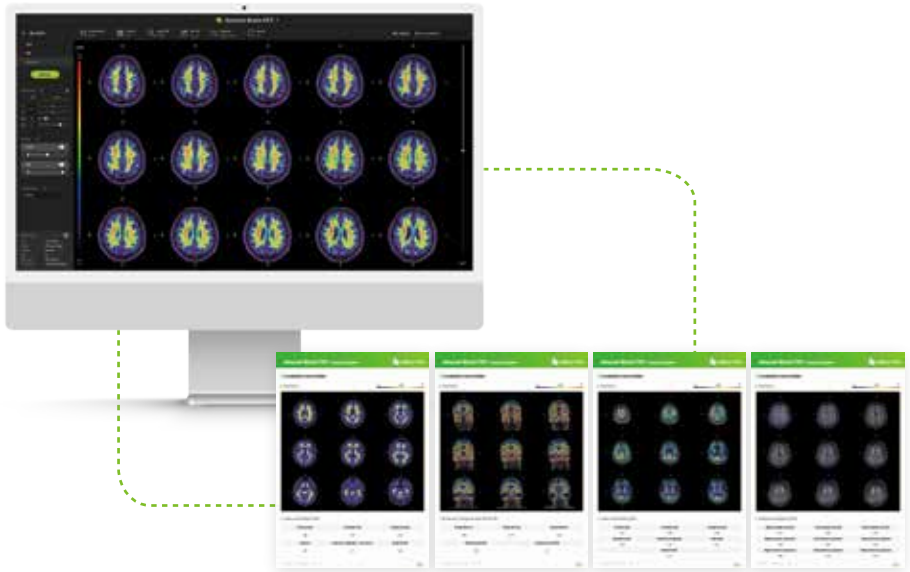

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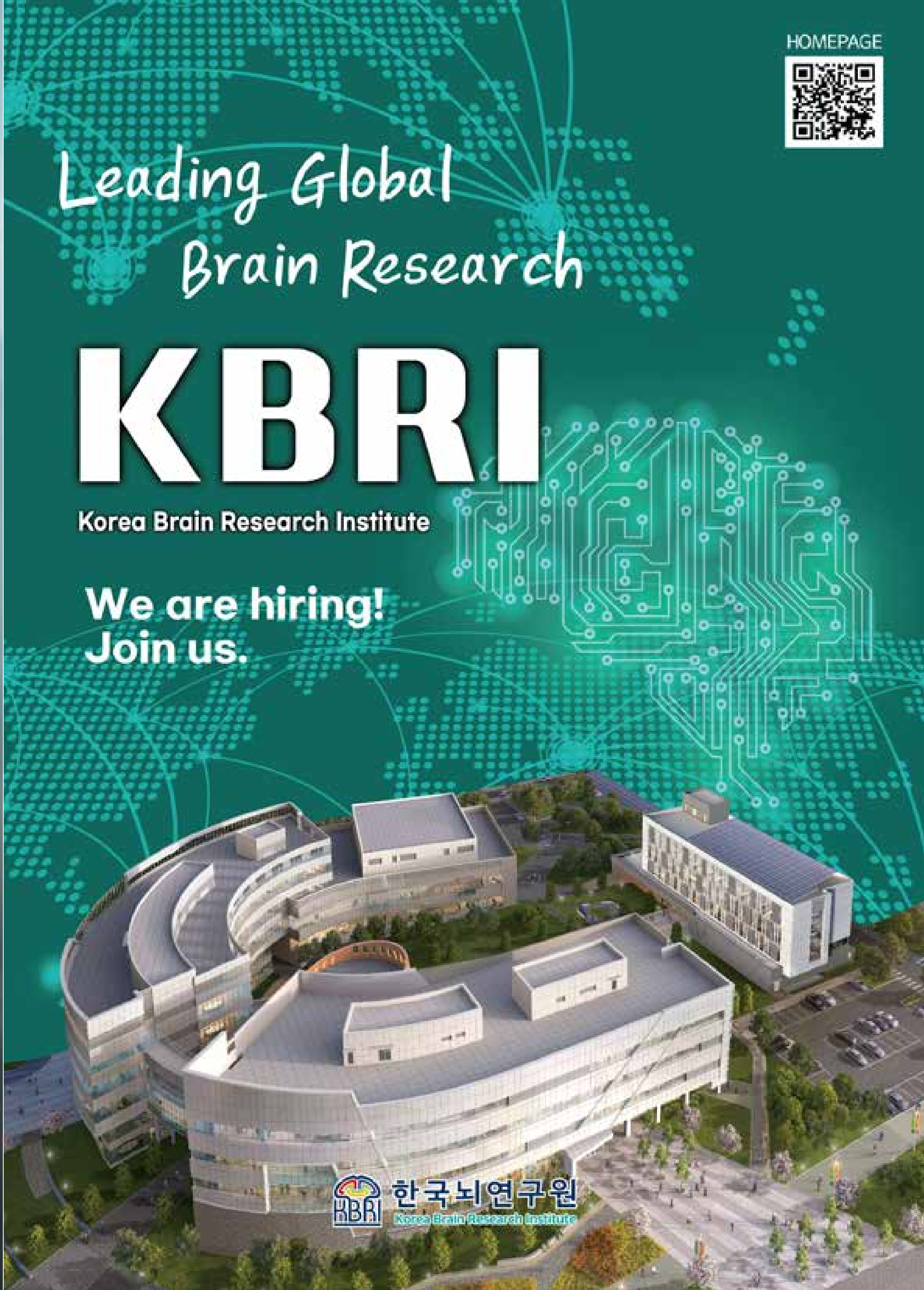
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