



LEIPZIG  
Germany

March 25-27



ECCN  
12<sup>th</sup> edition  
2024

EUROPEAN  
CONFERENCE ON  
CLINICAL  
NEUROIMAGING

// PROGRAM //



# • Summary

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The 12th European Conference on Clinical Neuroimaging (ECCN, March 25th-27th, 2024) will again bring together physicians and researchers from all brain imaging modalities (from PET to SPECT to MRI) and will also provide a window into other innovative biomarkers, new technologies and emerging areas of clinical neuroimaging.

We look forward to seeing you in Leipzig to discuss clinical neuroimaging and science.

**Henryk Barthel,**

Professor and Assistant Medical Director Brain PET and PET/MRI of the Department of Nuclear Medicine, LEIPZIG University Medical Centre, Germany

**Swen Hesse,**

Professor and Assistant Medical Director Neuroreceptor PET/MRI of the Department of Nuclear Medicine, LEIPZIG University Medical Centre, University of LEIPZIG, Germany

**Michael Rullmann,**

Senior researcher Computerscience of the Department of Nuclear Medicine, LEIPZIG University Medical Centre, Germany

**Franck Semah,**

Professor, Head of Imaging Department, University Hospital of LILLE, France



# Scientific Committee

**Pablo Aguiar Fernández (Santiago de compostela, Spain)**

**Javier Arbizu (Pamplona, Spain)**

**Henryk Barthel (Leipzig, Germany)**

**Matthias Brendel (Munich, Germany)**

**Diego Cecchin (Padova, Italy)**

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**Silvia Morbelli (Genoa, Italy)**

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**Franck Semah (Lille, France)**

**Nelleke Tolboom (Utrecht, Netherlands)**

**Tatjana Traub-Weidinger (Vienna, Austria)**

**Elsmarieke Van de Giessen (Amsterdam, Netherlands)**

**Donatienne Van Weehaeghe (Gent, Belgium)**

**Antoine Verger (Nancy, France)**

**Igor Yakushev (Munich, Germany)**

# General information ●



## Registration and Congress secretariat

Name badges and attendee bags can be collected from the registration desk located by the conference room



## Certificates of attendance

Certificates of attendance can be collected from the registration desk.



## Wireless connection

A free wireless internet connection will be available.



## Photography and recording of programs

The ECCN strictly prohibits all unauthorized photography, audio and/or videotaping during the meeting.



## Coffee breaks

Coffee breaks will be served close to the registration area.

## Congress venue



### CONGRESS VENUE

**The congress will take place at the Ring-Café:  
Roßplatz 8, 04103 Leipzig, Germany**

### FROM TRAIN STATION

The main railway station is just 500 meters away, through the center.

### BY CAR

The A9, A14 and A38 freeways are just seven kilometers away and well signposted.



**Congress secretariat**  
ANT CONGRES

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# Overview







MONDAY  
25

10:15 AM	11:30 AM	12:30 PM	1:15 PM	2:45 PM
REGISTRATION	WELCOME COFFEE 	WELCOME	LECTURE SESSION 1 	SATELLITE SYMPOSIUM 1 
3:30 PM	4:00 PM	4:15 PM	5:00 PM	
COFFEE BREAK 	SPECIAL LECTURE 	ORAL COMMUNICATION 1 	SATELLITE SYMPOSIUM 2 	

TUESDAY  
26

8:45 AM	10:00 AM	10:30 AM	11:15 AM	12:45 PM
ORAL COMMUNICATION 2 	COFFEE BREAK 	SATELLITE SYMPOSIUM 3 	ORAL COMMUNICATION 3 	LUNCH 
2:00 PM	3:30 PM	4:00 PM	5:00 PM	5:15 PM
LECTURE SESSION 2 	COFFEE BREAK 	ORAL COMMUNICATION 4 	AWARDS	SATELLITE SYMPOSIUM 4 
6:30 PM				
NETWORKING EVENT				

WEDNESDAY  
27

8:30 AM	10:00 AM	10:30 AM	11:00 AM	12:00 PM
LECTURE SESSION 3 	COFFEE BREAK 	SPECIAL LECTURE 	ORAL COMMUNICATION 5 	LUNCH 
1:15 PM	3:35 PM	4:00 PM		
RAPID FIRE SESSION 	CONCLUSION	END OF THE CONFERENCE		

# Program

**Monday, 25th March**

10:15-12:30 PM	Registration
11:30-12:30 PM	Welcome Coffee
12:30-1:15 PM	Welcome

*Prof. Dr. Ingo Bechmann, Dean of the Faculty of Medicine, University of Leipzig*

*Prof. Dr. Christoph Josten, Medical Director and Spokesman of the Management Board, Leipzig University Medical Center*

## 1:15-2:45 PM Lecture session 1: Brain and Beyond – Total-Body PET

*Chairs : Nelleke Tolboom (Netherlands) - Valentin Riedl (Germany)*

### 1:15-1:45 PM The Basics of Total-Body PET

*Ivo Rausch (Austria)*

### 1:45-2:15 PM The Gut-Brain Axis in Parkinson's Disease

*Björn Falkenburger (Germany)*

### 2:15-2:45 PM The Brain and the Heart: Imaging of Organ Crosstalk

*Frank Bengel (Germany)*

## 2:45-3:30 PM Satellite Symposium sponsored by Positrigo: Dedicated Scanners – Bringing Brain PET to the People.

*Chairs : Mark Lubberink (Germany) - Bernhard Sattler (Germany)*

### Potential of Dedicated Brain PET in Dementia Disorders.

*Henryk Barthel (Germany)*

### Potential of Dedicated Brain PET in Movement Disorders.

*Silvia Morbelli (Italy)*

## 3:30-4:00 PM Coffee Break

### 4:00-4:15 PM Special lecture: Imaging Brain Tumours

**Imaging of Brain Tumours - What the Radiotherapists Want to Know.**

*Clemens Seidel (Germany)*

## 4:15-5:00 PM Oral Communication Session 1: Imaging Brain Tumours

*Chairs : Diego Cecchin (Italy) - Clemens Seidel (Germany)*

### 4:15-4:30 PM A novel imaging biomarker in gliomas: metabolic connectivity mapping from dynamic [18F]FDG PET data.

*Giulia Vallini (Italy)*

### 4:30-4:45 PM A semi-automatic pipeline for extracting static and dynamic parameters from 18F-DOPA PET in high- and low-grade pediatric gliomas.

*Michele Mureddu (Italy), Rosella Trò (Italy)*

### 4:45-5:00 PM Diagnostic accuracy of FET-PET in brain metastasis.

*Nathalie Testart Dardel (Switzerland)*

## 5:00-5:45 PM Satellite Symposium sponsored by GE Healthcare : The Utility of amyloid-PET in the era of disease modifying treatments in Alzheimer's disease.

*Nicolai Franzmeier (Germany), Ludwig Maximilian (Germany)*

*Chairs : Antoine Verger (France) - Silvia Morbelli (Italy)*





# Program

## Tuesday, 26th March (Morning)

8:45-10:00 AM	<b>Oral Communication Session 2: FDC PET Imaging in Dementia</b> <i>Chairs : Eric Guedj (France) - Juergen Dukart (Germany)</i>
8:45-9:00 AM	Quantifying the effect of varying levels of systemic blood sugar on cerebral energy metabolism. <i>Antonia Bose (Germany)</i>
9:00-9:15 AM	The energetic costs of signaling as a proxy of cognition in health and disease. <i>Valentin Riedl (Germany)</i>
9:15-9:30 AM	Unsupervised anomaly detection of brain [18F]-FDG PET in Alzheimer's disease and frontotemporal dementia. <i>Antoine Rogeau (France)</i>
9:30-9:45 AM	Cerebral metabolidm in patients with typical VS atypical frontotemporal dementia and alzheimer's disease <i>Florent Hives (France)</i>
9:45-10:00 AM	Evaluation of Brain Metabolic Pattern in Niemann-Pick Type C Disease. <i>Michal Pudis (Spain)</i>
10:00-10:30 AM	Coffee Break
10:30-11:15 AM	<b>Satellite Symposium</b> <i>Chairs : Tatjana Traub-Weidinger (Austria) - Henryk Barthel (Germany)</i>
11:15-12:45 PM	<b>Oral Communication Session 3: PET Imaging in Dementia - Other Tracers than FDG</b> <i>Chairs : Swen Hesse (Germany) - Matthias Schroeter (Germany)</i>
11:15-11:30 AM	Sex-specific entorhinal cortex functional connectivity in cognitively normal older adults with amyloid- $\beta$ pathology. <i>Liang Gong (China)</i>
11:30-11:45 AM	Early-phase [18F]Flortaucipir tau-PET as a measure of neurodegeneration: a comparison with [18F]FDG-PET and early-phase amyloid-PET. <i>Cecilia Boccalini (Switzerland)</i>
11:45-12:00 PM	Brain connectivity of early-phase amyloid imaging in Alzheimer's disease. <i>Ricardo Espinosa (Switzerland)</i>
12:00-12:15 PM	Experiences from clinical research and routine use with neuraceq amyloid pet - a decade of post-authorisation insights. <i>Norman Koglin (Germany)</i>
12:15-12:30 PM	Establishment of a deeply phenotyped cohort to determine factors of successful cognitive ageing. <i>Eóin Molloy (Germany)</i>
12:30-12:45 PM	Evaluation of the Utility of PET/MRI with Amyloid in the Diagnosis of Cerebral Amyloid Angiopathy. <i>Michal Pudis (Spain)</i>

# Program

## Tuesday, 26th March (Afternoon)

12:45-2:00 PM Lunch

2:00-3:30 PM **Lecture session 2: Imaging in Psychiatry**  
*Chairs : Julia Sacher (Germany)- Koen van Laere (Belgium)*

2:00-2:30 **Clinical Imaging in Psychiatry**  
*Gerhard Gründer (Germany)*

2:30-3:00 **Dynamic Coupling of Brain Neuronal and Neurotransmitter Systems**  
*Gitte M. Knudsen (Denmark)*

3:00-3:30 **New targets, new approaches, new biomarkers in neuroimaging: QUO VADIS?**  
*Rupert Lanzenberger (Austria)*

3:30-4:00 PM Coffee Break

4:00-5:00 PM **Oral Communication Session 4: Imaging other brain States**  
*Chairs : Maria Strauß (Germany) - Jan Booij (Netherlands)*

4:00-4:15 PM **Imaging the post-COVID brain 2 years after infection using [18F]DPA-714 PET and MRI: is it all between the ears?**  
*Denise Visser (The Netherlands)*

4:15-4:30 PM **Central  $\alpha\beta 2^*$ nicotinic receptor (nAChR) availability is significantly influenced by leptin in human obesity (OB).**  
*Maja Badendick (Germany)*

4:30-4:45 PM **Hypothalamic volume in pedophilia with or without child sexual offense.**  
*Melanie Storch (Germany)*

4:45-5:00 PM **Brain 18F-FDG PET: an efficient tool at the initial diagnosis of non-lesional late-onset epilepsy.**  
*Sebastien Heyer (France)*

5:00-5:15 PM Award



GE Healthcare

5:15-6:00 PM **Satellite Symposium sponsored by GE Healthcare : A StarGuide european multicentric study on DAT imaging: early and late acquisitions.**  
*Diego Cecchin (Italy)*  
*Chairs : Ralph Buchert (Germany) - Franck Semah (France)*

6:30-11:00 PM **Networking event at the conference venue**

## Wednesday, 27th March (Morning)

**8:30-10:00 AM**    **Lecture Session 3: The ATN Concept in AD**  
*Chairs: Donatienne Van Weehaeghe (Belgium), Igor Yakushev (Germany)*

8:30-9:00 AM	<b>Super Aging – A Great Model to Improve Understanding of AD</b> <i>Emrah Düzel (Germany)</i>
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9:00-9:30 AM	High-Field MRI – Improved Insights Into the Brain <i>Nik Weiskopf (Germany)</i>
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9:30-10:00 AM	Fluid Biomarkers for ATN Staging in AD <i>Markus Otto (Germany)</i>
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10:00-10:30 AM Coffee Break

10:30-11:00 AM **Special lecture: Imaging Parkinsonian Syndromes**  
18F-PE2I-PET for Differential Diagnosis of Parkinsonism.  
*My Jonasson (Sweden)*

**11:00-11:15 AM** CT-guided spatial normalisation of [123I]-FP-CIT SPECT images versus SPECT-guided normalisation to discriminate abnormal from normal putaminal uptake.  
*Anthime Flaus (France)*

11:15-11:30 PM	<p>Predicting the brain age of people with Parkinson's disease utilizing minimally processed magnetic resonance images.</p> <p><i>Franziska Albrecht (Sweden)</i></p>
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**11:30-11:45 PM** Accuracy of AI-driven susceptibility map-weighted MRI analyses to differentiate neurodegenerative from non-neurodegenerative parkinsonism.  
*Elon Wallert (The Netherlands)*

11:45-1:15 PM Lunch

# Program

## Wednesday, 27th March (Afternoon)

<b>1:15-3:35 PM</b>	<b>Rapid Fire Session</b> <i>Chairs : Marianne Patt (Germany)  Annette Horstmann (Finland)</i>
1:15-1:25 PM	<b>Investigating the role of 2-[18F]FDG-PET as a biomarker of upper motor neuron involvement in Amyotrophic Lateral Sclerosis.</b> <i>Sara Cabras (Italy)</i>
1:25-1:35 PM	<b>Personalized Brain Network Mechanisms and Prediction of Chronic Insomnia Disorder with Comorbid Depression.</b> <i>Liang Gong (China)</i>
1:35-1:45 PM	<b>Predicting Disability Progression in People with Multiple Sclerosis: Combining Volumetric and Radiomics Features from T2-Weighted FLAIR MR Images.</b> <i>Hamza Khan (Belgium)</i>
1:45-1:55 PM	<b>Hypothalamus and Third Ventricle Volume of Patients with Affective Disorders.</b> <i>Marie Stroske (Germany)</i>
1:55-2:05 PM	<b>Mammillary body and hypothalamic volumes in mood disorders.</b> <i>Peter Schoenknecht (Germany)</i>
2:05-2:15 PM	<b>Generalized sleep decoding with basal ganglia signals in multiple movement disorders.</b> <i>Zixiao Yin (Germany, China)</i>
2:15-2:25 PM	<b>Subgenual ACC gray matter volumes in mood disorders.</b> <i>Frederik Buchholz (Germany)</i>
2:25-2:35 PM	<b>Wake slow waves impact epileptic discharges and cognition in focal human epilepsy.</b> <i>Laurent Sheybani (United-Kingdom)</i>
2:35-2:45 PM	<b>Development of an Interactive Segmentation Algorithm of the Hippocampus Using 7T T1 Weighted Mr-Images in Humans.</b> <i>Uta Claußnitzer (Germany)</i>
2:45-2:55 PM	<b>Ultrahigh field quantitative MRI for repeatable characterization of the subcortex.</b> <i>Kerrin Pine (Germany)</i>
2:55-3:05 PM	<b>A Semi-Automated Algorithm for Hypothalamus Volumetry in 3-Tesla Magnetic Resonance Images.</b> <i>Julia Wolff (Germany)</i>
3:05-3:15 PM	<b>Automated structural analysis of the amygdala in affective disorders using 7T MRI in vivo.</b> <i>Benedikt Kürzinger (Germany)</i>
3:15-3:25 PM	<b>Use of Dynamic Neurotransmitter Imaging technique to study neuropathology of psychiatric and neurological conditions.</b> <i>Rajendra Badgaiyan (United States)</i>
3:25-3:35 PM	<b>Functional MRI-based classification of Deep Brain Stimulation states in Parkinson's disease.</b> <i>Dimitra Kiakou (Czech Republic)</i>
3:35-4:00 PM	<b>Conclusion</b>
4:00 PM	<b>End of the conference</b>

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## Notes

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# We would like to extend a special thanks to our 2024 industry sponsors

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## PATRONAGE

