CTNR
Centre for Transdisciplinary Neurosciences Rostock

CTNR Summer School 2021

September 02nd - 04th, 2021

Programme

CTNR SUMMER SCHOOL 2021

Joining Forces for Rostock Neurosciences - Technology Expertise Blitz

Rostock & Biohotel Gut Gremmelin, Germany, on September 02nd - 04th, 2021

The first CTNR Summer School will be a platform for the get-to-know and networking of senior and young scientists from Rostock in the field of Neurosciences. Researchers of CTNR working groups will be trained in neuroanatomy by a two-day long preparation course in Rostock. Following, leader and junior scientists will present together in tandems the current state-of-the-art, their methodologies, applications and on-site technologies on the Summer School location at the hotel in Gremmelin. They will get the possibility to find partners for future joint projects, initiatives and exiting research challenges. The Summer School will provide networking tools by oral and poster presentations, discussions and scientific network activities. The best poster will be awarded by a project funding amount of 1,000 €.

For further information and programme updates, please visit our meeting website at:

https://ctnr.med.uni-rostock.de/ctnr-summer-school-2021

We are looking forward to interesting talks, fruitful discussions and an inspiring meeting.

The CTNR Board

Markus Kipp, MD, PhD (Institute of Anatomy, UMR)

Rüdiger Köhling, MD (Oscar-Langendorff-Institute of Physiology, UMR)

Angela Kuhla, PhD (Rudolf-Zenker-Institute for Experimental Surgery, UMR)

Alexander Storch, MD (Department of Neurology, UMR)

Stefan Teipel, MD (Department of Psychosomatic and Psychotherapeutic Medicine, UMR)

Thursday, 02 September 2021 Institute of Anatomy, Gertrudenstr. 9, 18057 Rostock		
Neuroanatomy preparation course I		
09:00 – 9:15	**Welcome**	*Markus Kipp, MD, PhD (Anatomy, UMR)*
09:15 – 10:00	**Structure of the human and murine brain**	*Markus Kipp, MD, PhD (Anatomy, UMR)*
10:00 – 10:15	Coffee	
10:15 – 12:30	**Surface preparation of the human brain**	
12:30 – 13:30	Lunch	
13:30 – 14:30	**Blood supply to the brain**	*Lars-Ove Brandenburg, PhD (Anatomy, UMR)*
14: 30 – 15:30	**The motor system**	*Markus Kipp, MD, PhD (Anatomy, UMR)* *Lars-Ove Brandenburg, PhD (Anatomy, UMR)*
15:30 – 16:00	Coffee	
16:00 – 17:00	**The sensitive system**	*Markus Kipp, MD, PhD (Anatomy, UMR)*
17:00 – 20:00	**Deep brain dissection**	*Markus Kipp, MD, PhD (Anatomy, UMR)* *Lars-Ove Brandenburg, PhD (Anatomy, UMR)*
20:00	Barbecue together at the city harbour	

Friday, 03 September 2021 Institute of Anatomy, Gertrudenstr. 9, 18057 Rostock		
Neuroanatomy preparation course II		
08:00 – 9:00	**Histology glia**	*PD Tim Clarner (RWTH Aachen)*
09:00 – 10:45	**Microscopy workshop**	*PD Tim Clarner (RWTH Aachen)*
10:45 – 11:00	**Success control and farewell**	

Friday, 03 September 2021 Gut Gremmelin, Am Hofsee 33, 18279 Gremmelin		
12:00 – 12:50	Arrival and Lunch	
12:50 – 13:00	**Welcome**	*Rüdiger Köhling, MD (Co-Speaker CTNR)*
Session I		
13:00 – 13:30	**Bioresorbable intracranial stent for endovascular therapy**	*Sönke Langer, MD (Diagnostic and Interventional Radiology)* *Felix Streckenbach, MD (CTNR Clinician Scientist, UMR)*
13:30 – 14:00	**Generation of an induced pluripotent stem cell-based cell model for hepatic Wilson disease**	*Jan Lukas, PhD (Translational Neurodegeneration Section, UMR)* *Janine Petters, PhD student (CTNR Medical Scientist, UMR)*
14:00 – 14:30	**Explainable transcriptome (?) analyses**	*Saptarshi Bej, PhD student (Systems Biology, UR)* *Markus Wolfien, PhD student (Systems Biology, UR)*
14:30 – 15:00	**Is there a STING in (FUS)-ALS?**	*Andreas Hermann, MD, PhD* *(Translational Neurodegeneration Section, UMR)* *Marcel Naumann, PhD student* *(Translational Neurodegeneration Section, UMR)*
15:00 – 15:30	Coffee and Posters	
Session II		
15:30 – 16:00	**Exploring an undescribed border structure of the choroid plexus: From three-dimensional macroscopy to ultrastructure**	*Katerina Manzhula, MD student (Anatomy, UMR)* *Sarah Joost, M.Sc (Anatomy, UMR)*
16:00 – 16:30	**Astrocyte-degeneration and behaviour deficits in an activity-based anorexia model**	*Linda Frintrop, PhD (Anatomy, UMR)* Sadaf Gill, PhD student *(Anatomy, UMR)*
16:30 – 17:00	**Combined analysis of neuronal hyperexcitability in a cross-sectional approach in APPswe/PS1dE9 mice of different ages with focus on electrophysiology and imaging**	*Angela Kuhla, PhD (Experimental Surgery, UMR)* *Luisa Müller, PhD student (Psychosomatic Medicine and Psychotherapy and Experimental Surgery, UMR)*
17:00 – 17:30	**Association of Isocitrate Dehydrogenase (IDH) status with edema to tumor ratio and its correlation with immune infiltration in glioblastoma**	*Florian Gessler, MD, PhD (Neurosurgery, UMR)* *Daniel Dubinski, MD, M.Sc (Neurosurgery, UMR)*
17:30 – 18:30	**Gene therapy for pharmacoresistant focal epilepsy**	*Dimitri Michael Kullmann, FMedSci FRS (UCL Queen Square Institute of Neurology, University College London)*
19:00	Dinner & Scientific Networking	

Saturday, 04 September 2021 Gut Gremmelin, Am Hofsee 33, 18279 Gremmelin		
07:00 – 09:00	Breakfast	
Session III		
09:00 – 09:30	**Functional characterization of the basal ganglia-cortex network to improve individual clinical efficacy of deep brain stimulation in movement disorders**	*René Reese, MD (Neurology, UMR)* *Maxi Kersten, MD (CTNR Clinician Scientist, UMR)*
09:30 – 10:00	**Mixing methods in a cluster randomised controlled trial (cRCT): using the best of both worlds to assess the effectiveness of a digitally supported care management intervention to reduce unmet needs of family caregivers of people with dementia**	*Ingo Kilimann, MD (DZNE Rostock)* *Olga Klein, PhD (DZNE Rostock)*
10:00 – 10:30	**Data-driven methods to study heterogeneity in neuroimaging data: personal profiles, risk factors, and associations with cognitive decline**	*Martin Dyrba, PhD (DZNE Rostock)* *Fedor Levin, M.Sc (DZNE Rostock)*
10:30 – 11:00	**From neuroscience research to clinical innovation**	*Marina Boccardi, PhD (DZNE Rostock)* *Alice Grazia, PhD student (DZNE Rostock)*
11:00 – 11:30	**Patient and public involvement in dementia research**	*Stefan Teipel, MD (Gerontospychosomatics Section, UMR)* *Stefanie Köhler, PhD student (Gerontospychosomatics Section, UMR)* *Antonia Kowe, PhD student (AGIS, INF, UR)*
11:30 – 12:00	Coffee	
Poster Session		
12:00 – 13:30	Poster presentations & poster award	*See abstract booklet*
13:30 – 14:00	Lunch and farewell	

Location and Travel

Gremmelin, a village of 150 people, is located on the edge of the Mecklenburger Seenplatte and in the triangle between Hamburg, Berlin and Rostock.

Gut Gremmelin
Am Hofsee 33
18279 Gremmelin
https://www.gutgremmelin.de/

- Rates: Single 89.00 € (incl. breakfast)
- Equipment: TV, telephone, shower room with care products, hairdryer, 1 bottle of free mineral water in the room
- Rooms are available from 3:00 p.m. on the day of arrival until 10:00 a.m. on the day of departure.

Arrival by car: Via the A 20 and A 19 as well as the A 24 and A 19. Please take the motorway exit No. 13 "Güstrow-Süd / Teterow" from the A 19. Then please turn left towards Teterow. After approx. 200 m turn left towards Reinshagen. Follow the main road to Gremmelin. At the end of the main street, please turn right onto the cobblestone street. The Gremmelin estate is then on the left. The parking spaces at the hotel are free of charge. **Arrival by train:** To the Güstrow train station.

Organisation and Contact

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Additional Information

Neuroanatomy preparation course

- The language of the course is German, accompanying explanations can be made in English if necessary.
- For Summer School participants, the CTNR takes over the participation fees.

Oral/Poster presentations

- Every participant can prepare a scientific poster (A0). Poster walls will be available on site.
- The language for the oral and poster presentation is English.
- The length for the tandem oral presentation is max. 25 minutes + 5 minutes discussions.

CTNR Poster Award

- The CTNR Board will vote for the best poster at the poster session.
- The winner receives prize money of € 1,000 for supporting the project presented.

Payment

- The participants pay the travel and accommodation costs ("Dienstreiseantrag" via the institutes).
- For Summer School participants, the CTNR takes over the costs for the participation fees of the neuroanatomy preparation course, location rent, planned meals/beverages and planned social events.

Corona

The summer school takes place subject to the then currently applicable regulations concerning the corona pandemic.