

## Memory and Consciousness Summer School 2014

From 30<sup>th</sup> July to 2<sup>nd</sup> August our institute hosted the Summer School "Memory and Consciousness: Plasticity, Brain Rhythms and Sleep", funded by the Institutional Strategy (Zukunftskonzept) of the University of Tübingen and the DFG-funded SFB 654 "Plasticity and Sleep".

The Summer School was a big success thanks to 15 excellent invited speakers and 80 highly motivated participants. Speakers and participants came from 15 different countries all over the world, speaking for the high international level of the event. The program included 3 keynote lectures, 11 invited talks, a young investigator symposium, a meet the expert session, a poster session and a poster blitz session during which participants presented their research in 2-minute talks, which was one of the highlights of the Summer School.



SS MEMORY & CONSCIOUSNESS

The many social events provided the opportunity to chat and discuss with the speakers and other participants in a relaxed atmosphere. Social events included a welcome reception at the Cafeteria Schnarrenberg, an evening at the "Sommerinsel at Anlagensee", a dinner at Die Kelter, and a Stocherkahn punting trip. Big thanks to the organizers and the many people who helped to make this Summer School such a great event!



Sunday, 28 <sup>th</sup> September	
09:00 – 09:15	Welcome
09:15 – 10:00	Intro Didactics – How to give a good presentation
10:00 – 13:00	Didactics-Workshop Groups 1 + 2 Project-Workshop Groups 3 + 4
13:00 – 14:30	Lunch break
14:30 – 17:30	Didactics-Workshop Groups 3 + 4 Project-Workshop Groups 1 + 2
20:00	Dinner
Monday, 29 <sup>th</sup> September	
09:30 – 11:00	Presentations Group 1
11:00 – 11:30	Coffee break
11:30 – 13:00	Presentations Group 2
13:00 – 14:30	Lunch break
14:30 – 15:15	Invited Talk: Björn Rasch
15:15 – 18:15	Team-Workshop
20:00	Dinner
23:00	PARTY
Tuesday, 30 <sup>th</sup> September	
	FREE
20:00	Dinner
Wednesday, 1 <sup>st</sup> October	
09:30 – 11:00	Presentations Group 3
11:00 – 11:30	Coffee break
11:30 – 13:00	Presentations Group 4
13:00 – 14:30	Lunch break
14:30 – 16:00	Presentations Project-Workshops
16:00 – 16:30	Coffee break - Farewell

## Dr. Cecilia Forcarto's farewell THANKS FOR YOUR TIME HERE, CECI

After exactly two years in our Institute, Dr. Cecilia "Ceci" Forcarto starts her return to Argentina. Certainly, two years full of experiences, adventures, science and a couple of beers. Even though for those who had the possibility to spend time with her, it wasn't enough time... the time seems definitely short.

Ceci plunged herself into the work in the sleep lab with great enthusiasm and joy. Her intriguingly new ideas about how sleep might benefit memory through processes of reconsolidation will certainly give new impulses to these fields of research. The long hours in the sleep lab have definitely paid off.

¡Gracias Ceci por la buena onda! Éxito en todo y buen viaje.

## SARDINIA 2014!



Our next Sardinia research retreat will be held from **27 September to 1 October, 2014**. This year, 62 people will join for the trip, which is the highest number ever.

The program will include soft-skill workshops on how to give a good presentation, project workshops, an invited talk by Prof. Björn Rasch, and a Team workshop led by Amrei Rasch, during which we will discuss the current state of our institute and suggestions for further improvements.



## AUF DIE PLÄTZE.. FERTIG.. LOS! THE SLOW OSCILLATIONS GET OFF TO A RUNNING START



On the 28<sup>th</sup> of June the Institute for Medical Psychology and Behavioural Neurobiology's very own running team, "the Slow Oscillations", competed in Tübingen's 100k Staffellauf relay race. In order to prepare for the race, our team trained every Tuesday for three months. It seems that all the hard work really paid off - not only did the Slow Oscillations finish the race, they were even 18<sup>th</sup> out of 44 teams! So congratulations to Christine Barner, Marie Bohlen, Elaina Bolinger, Max Cierpka, Guillermo Gallegos-Ayala, Jens Klinzing, Nicolas Lutz, Carlos Oyanedel, Andrea Sarasola, Björn Thalheim and Jingyi Wang, as well as our wonderful cheerleaders, Kathrin Imhof, Anna Marx, and Katharina Zinke. Let's hope next year we have enough racers for another team: the Fast Spindles!

## New MedPsych-IT Support System

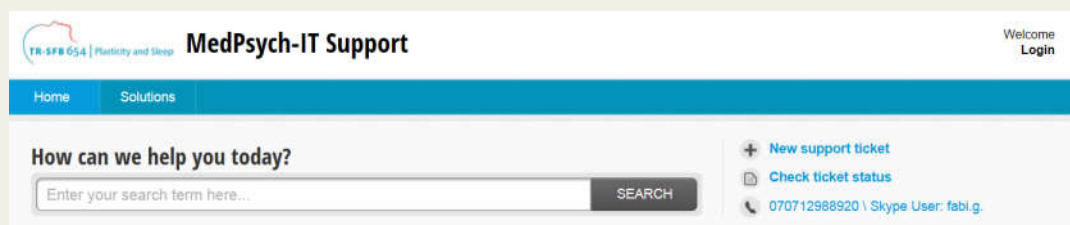
The MedPsych-IT Support System (<https://medpsych.freshdesk.com/support/home>) is the new way to organize the communication between IT-users and administrators concerning problems with PCs, Software and other Hardware at our institute.

### Ticket System

If you need the help of an administrator, you can write an e-mail to [support@medpsych.freshdesk.com](mailto:support@medpsych.freshdesk.com) containing a description of your problem or request. The content of this e-mail will be stored on Freshdesk and the administrators can get in e-mail contact with you via this system. You will receive an invitation via e-mail to sign in for freshdesk.com after you have been registered. Once you are registered you can check the processing status of your request, add further notes, and submit new support tickets online.

### Helpdesk

On the website you can also find a support area including a blackboard with continuously updated information about current problems (e.g. Matlab licensing), a FAQs block, the basic information for new staff and IT consultation hours.





## MEASUREMENTS IN SCIENCE. OUR LATEST PUBLICATIONS

### (MARCH 2014 – SEPT. 2014)

- Dubischar-Krivec AM, Bölte S, Braun C, Poustka F, Birbaumer N, Neumann N (2014, Oct.). Neural mechanisms of savant calendar calculating in autism: An MEG-study of few single cases. *Brain Cogn.*
- Feld GB, Besedovsky L, Kaida K, Münte TF, Born J (2014, Oct.). Dopamine D2-like Receptor Activation Wipes Out Preferential Consolidation of High over Low Reward Memories during Human Sleep. *J Cogn Neurosci.*
- Oyanedel CN, Binder S, Kelemen E, Petersen K, Born J, Inostroza M (2014, Sept.). Role of slow oscillatory activity and slow wave sleep in consolidation of episodic-like memory in rats. *Behav Brain Res.*
- Kim S, Birbaumer N (2014, Sept.). Real-time functional MRI neurofeedback: a tool for psychiatry. *Curr Opin Psychiatry.*
- Strehl U, Birkle SM, Wörz S, Kotchoubey B (2014, August). Sustained reduction of seizures in patients with intractable epilepsy after self-regulation training of slow cortical potentials - 10 years after. *Front Hum Neurosci.*
- Groch S, Zinke K, Wilhelm I, Born J (2014, August). Dissociating the contributions of slow-wave sleep and rapid eye movement sleep to emotional item and source memory. *Neurobiol Learn Mem.*
- Rihm JS, Diekelmann S, Born J, Rasch B (2014, August). Reactivating memories during sleep by odors: odor specificity and associated changes in sleep oscillations. *J Cogn Neurosci.*
- Binder S, Berg K, Gasca F, Lafon B, Parra LC, Born J, Marshall L (2014, July-August). Transcranial slow oscillation stimulation during sleep enhances memory consolidation in rats. *Brain Stimul.*
- Heni M, Wagner R, Kullmann S, Veit R, Mat-Husin H, Linder K, Benkendorff C, Peter A, Stefan N, Häring HU, Preissl H, Fritsche A (2014, July). Central insulin administration improves whole-body insulin sensitivity via hypothalamus and parasympathetic outputs in men. *Diabetes.*
- Gharabaghi A, Naros G, Walter A, Grimm F, Schuermeyer M, Roth A, Bogdan M, Rosenstiel W, Birbaumer N (2014, July). From assistance towards restoration with epidural brain-computer interfacing. *Restor Neurol Neurosci.*
- Berndt C, Diekelmann S, Alexander N, Pustal A, Kirschbaum C (2014, June). Sleep fragmentation and false memories during pregnancy and motherhood. *Behav Brain Res.*
- Besedovsky L, Linz B, Born J, Lange T (2014, June). Mineralocorticoid receptor signaling reduces numbers of circulating human naïve T cells and increases their CD62L, CCR7, and CXCR4 expression. *Eur J Immunol.*
- Besedovsky L, Linz B, Dimitrov S, Groch S, Born J, Lange T (2014, June). Cortisol increases CXCR4 expression but does not affect CD62L and CCR7 levels on specific T cell subsets in humans. *Am J Physiol Endocrinol Metab.*
- Gallegos-Ayala G, Furdea A, Takano K, Ruf CA, Flor H, Birbaumer N (2014, May). Brain communication in a completely locked-in patient using bedside near-infrared spectroscopy. *Neurology.*
- Yu T, Lang S, Birbaumer N, Kotchoubey B (2014, April). Neural correlates of sensory preconditioning: a preliminary fMRI investigation. *Hum Brain Mapp.*
- Bensch M, Martens S, Halder S, Hill J, Nijboer F, Ramos A, Birbaumer N, Bogdan M, Kotchoubey B, Rosenstiel W, Schölkopf B, Gharabaghi A (2014, April). Assessing attention and cognitive function in completely locked-in state with event-related brain potentials and epidural electrocorticography. *J Neural Eng.*
- Weber FD, Wang JY, Born J, Inostroza M (2014, March). Sleep benefits in parallel implicit and explicit measures of episodic memory. *Learn Mem.*