



**The Brain
from Structure to Function**

seminar

19 - 20 December 2017

Dominant, Rakvice, Czech Republic



The Czech Academy
of Sciences

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of Sciences

Workshop
The Brain – from Structure to Function
19-20. 12. 2017

Program

19. 12. 2017

9:00 - 10:00		arrival of participants		
10:00 - 10:30	coffee break + welcome (Zenon Starčuk jr.)			
10:30 - 10:50	1	Zenon Starčuk jr.	ÚPT AV ČR, Brno, CZ	On direct and quantitative MR imaging of myelin
10:50 - 11:10	2	Radovan Jiřík	ÚPT AV ČR, Brno, CZ	From MR images to physical quantities - methods, assumptions, biological background
11:10 - 11:30	3	Ondřej Maciček	ÚPT AV ČR, Brno, CZ	The enemies of quantitative MRI pharmacokinetic analyses
11:30 - 11:50	4	Aneta Malá	ÚPT AV ČR, Brno, CZ	MR contrast agents for biomedical research and development
11:50 - 12:10	5	Iveta Pavlova	ÚPT AV ČR, Brno, CZ	The role of macromolecules in in vivo MR spectroscopy
12:10 - 12:30	6	Władysław Węglarz	IFJ PAN Krakow, PL	Demyelination and more – MRI and MRS of rodent's brain at 9.4T
12:30 - 12:50	7	Michael Andäng	CEITEC MUNI	Mapping ions in neurogenic regions of the brain to uncover novel mechanisms controlling stem cell activity
13:00 - 14:30	lunch			
14:30 - 14:50	8	Hana Uhlířová	CEITEC VUT	Cell type specificity of neurovascular coupling in cerebral cortex
14:50 - 15:10	9	Naděžda Vaškovicová	ÚPT AV ČR	Mozek potkana očima elektronové mikroskopie
15:10 - 15:30	10	Jana Rudá-Kučerová (Eva Dražanová)	LF MUNI, ÚPT AV ČR	ASL in neuroscience research: can we pharmacologically dissect the origin of the ASL signal?
15:30 - 15:50	11	Luděk Šefc	1LF UK, Praha, CZ	Advanced methods in radio- and scintigraphy of small laboratory animals
15:50 - 16:10	12	Lenka Dvořáková	accela s.r.o., Praha, CZ	New technologies in brain imaging
16:10 - 16:40	coffee break			
16:40 - 17:00	13	Marlena Welniak-Kamińska	IMDiK PAN, Warszawa, PL	Domestication-related changes in volumes of the brain structures and cerebral metabolic profiles. Comparison of laboratory and wild rats
17:00 - 17:20	14	Michał Fiedorowicz	IMDiK PAN, Warszawa, PL	Application of magnetic resonance for tracking the brain neurodegeneration in preclinical model of glaucoma
17:20 - 17:40	15	Helena Pivoňková	ÚEM AV ČR, Praha, CZ	Distal Middle Cerebral Artery Occlusion: A Clinically Relevant Model

				of Stroke in Mice
17:40 - 18:00	16	Peter Scheer	VFU/ICRC, Brno, CZ	Modifikace klasického trombotického modelu okluze střední mozkové tepny u potkana pomocí permanentní kanylace externí karotidy
18:00 - 19:30	dinner			
19:30	wine tasting			

20.12.2017

9:00 - 10:00	breakfast			
10:00 - 10:20	17	Michal Holešta	3LF UK, Praha, CZ	Gadolinium brain deposits after repeated contrast-enhanced MRI examinations
10:20 - 10:40	18	Ladislav Bačiak	FCHPT STU, Bratislava, SK	SISCO: Previous studies review and contemporary spine DTI struggle
10:40 - 11:00	19	Tomáš Smolek	Neuroimunol. ústav SAV, Bratislava, SK	SISCO: Previous studies review and contemporary spine DTI struggle
11:00 - 11:20	20			
11:20 - 12:00	coffee break			
departure of participants				

Venue

Vinařský dům Dominant

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Map: <https://en.mapy.cz/zakladni?x=16.8171265&y=48.8628634&z=16&q=rakvice%20dominant>,

<https://en.mapy.cz/turisticka?x=16.8154354&y=48.8654713&z=17&source=firm&id=12988522&q=rakvice%20dominant>

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