

STUDENT RESEARCH ACTIVITY FOR ACADEMIC YEAR 2013/2014

For students in years	Name of the Student scientific activity	Tutor	Number of participants
3.	Subcortical parcellation of white matter in Rhesus Monkey on DTI	doc. Zach	1
3. – 4.	Laterality and cross-hand analgesia	doc. Yamamotová	1
3. – 4.	Gender differences in interoceptive sensitivity and their relationship to pain perception	doc. Yamamotová	1
3. – 4.	Unconventional lifestyle of unconventional lymphocytes	doc. Novák	1
3. – 4.	Physiological and pathophysiological mechanism of pain	doc. Vaculín	1-2
3. – 4.	Motor consequences of upper arm nerve injury	doc. Vaculín	2
3. – 5.	Micro-CT analysis of the inner structure of human calcaneus	prof. Stingl dr. Doubková	1-2
3. – 5.	Electro-physiological correlates of emotional stimuli processing	dr. Kvašňák	3
3. – 6.	Neuroanatomical model of hippocampus	dr. Mrzílková	2
3. – 6.	DTI tractography of the different parts of the brain using DSI studio	dr. Mrzílková	2
3. – 6.	Brain structures analysis using Freesurfer v 5.2	doc. Zach	2
3. – 6.	Neuroanatomical model of nucleus accumbens	dr. Mrzílková	2
3. – 6.	Volumetrical measurements of the cingulate gyrus	dr. Mrzílková	2
3. – 6.	Volumetrical measurements of the callosal body	dr. Mrzílková	2
3. – 6.	Hippocampal MRI analysis of AD patient	dr. Mrzílková	2
3. – 6.	MRI analysis of fornix and anterior commissure of AD patient	dr. Mrzílková	2
3. – 6.	MRI analysis of third ventricle in CA scan like one of sign for AD diagnosis	dr. Mrzílková	2
3. – 6.	Freesurfer (FS) analysis of the segmentation of the hippocampal subfields	doc. Zach	2
3. – 6.	Evaluation of the area of the hippocampi and area of temporal horn of the lateral ventricles in the patient with AD on the 3T MRI	doc. Zach	2
4.	Study of micro RNAs in placenta of patients with pre-term delivery and pre-term delivery with the rupture of membranes	prof. Hromadníková	1
4.	Identification of novel mutations associated with Antley-Bixler syndrome	prof. Martásek	1
4. – 6.	Nucleus Accumbens – structure and 3D model	doc. Zach	1
5. – 6.	Management of the inhalation injury	dr. Tokarik	2
5. – 6.	Burn Shock	dr. Tokarik	2