

WORKSHOPS AND PRESENTATIONS UNDER THE BRAIN AWARENESS WEEK

March 12, 2011

“THE SCIENTIST’S DAY IN NENCKI INSTITUTE”

	Title	Leaders	Description	Time
1.	How does the human brain work – selected methods of neuropsychological assessment	<i>Monika Lewandowska</i> <i>Alicja Moczulska</i> <i>Anna Oroń</i> <i>Justyna Skolimowska</i> <i>Laboratory of Neuropsychology</i> <i>Nencki Institute of Experimental Biology</i>	Neuropsychological methods for assessment of cognitive functions in norm and pathology is presented. This presentation gives the participants an opportunity to assess e. g. memory and attention abilities and to learn about the consequences of the brain damage. In addition, new methods of neurorehabilitation are introduced.	10.00

<p>2.</p>	<p>Brain boggling – create your own brain – workshops for children</p>	<p><i>Monika Lewandowska</i></p> <p><i>Alicja Moczulska</i></p> <p><i>Anna Oroń</i></p> <p><i>Justyna Skolimowska</i></p> <p><i>Laboratory of Neuropsychology</i></p> <p><i>Nencki Institute of Experimental Biology</i></p>	<p>Basic information and principles about human brain anatomy and function are introduced. The young participants have the possibility to create their own models of brain (drawing, painting, modeling with plasticine). The workshops are carried out in small groups (ca. 10 children). Some competitions are also planned (short questions, discussions, interaction with audience). The best answers and brains' models are awarded.</p>	<p>11.00</p>
<p>3.</p>	<p>New methods of studying and rehabilitation of cognition on a rat model</p>	<p><i>Małgorzata Węsierska</i></p> <p><i>Iwona Adamska</i></p> <p><i>Justyna Skolimowska</i></p> <p><i>Laboratory of Neuropsychology</i></p> <p><i>Nencki Institute of Experimental Biology</i></p>	<p>The purpose of this workshop is to present methods which are useful to study different kinds of memory and ways to rehabilitate related brain functions. Different variants of the Place Avoidance Test are used as behavioral methods to study spatial reference memory, cognition and working memory. Transcranial direct current stimulation (tDCS) is introduced as a useful method for rehabilitation of cognitive functions.</p>	<p>12.00</p>

<p>4.</p>	<p>A big magnet and mind reading – devices for neurorehabilitation</p>	<p><i>Piotr Bogorodzki</i> <i>Ewa Piątkowska</i> – <i>Janko</i></p> <p><i>Institute of Radioelectronics</i></p> <p><i>Warsaw University of Technology</i></p>	<p>One of the most fascinating methods of human thoughts imaging (functional Magnetic Resonance Imaging, fMRI) is presented in a simple way. Additionally, robots and devices designed for rehabilitation after the brain damage are exhibited.</p>	<p>13.00</p>
<p>5.</p>	<p>Visual illusions</p>	<p><i>Andrzej Foik</i></p> <p><i>Laboratory of Visual System</i></p> <p><i>Nencki Institute of Experimental Biology</i></p>	<p>Various visual illusions (e. g. shape, color, movement) are shown during the presentation. Moreover, brain mechanisms of these illusions are explained in an easy way.</p>	<p>14.00</p>

**The workshops will take place in Nencki Institute of Experimental Biology,
3 Pasteur St. Warsaw (conference room, 2nd floor).**