The founding meeting of the
Brain Disease Research Center (BDRC)
Dedicated in Memory of Prof. Shaul Feldman
Former Chairman of the Department of Neurology and Dean of the Faculty of Medicine

September 29 – October 1, 2013
Rubin Lecture Hall
Faculty of Medicine, Hebrew University of Jerusalem

PROGRAM

September 29, 2013

14:00 – 14:45  Greetings

Session 1:  Epilepsy and paroxysmal disorders
Chairs: Yoel Yaari & Dana Ekstein
14:45 – 15:30  Heinz Beck (University of Bonn)
Title: Impaired D-serine mediated cotransmission mediates cognitive
dysfunction in epilepsy

15:30 – 16:00  Break

16:00 – 16:20  Sara Eyal (IDR)
Title: Nanoparticle-based system for non-invasive localization of
epileptogenic brain tissue

16:20 – 16:40  Dana Ekstein (Hadassah Medical Center)
Title: Patterns of EEG effective connectivity in patients with temporal
lobe epilepsy

16:40 – 17:00  Yoel Yaari (IMRIC)
Title: Putative role of zinc in epileptogenesis

17:00  Gathering (buffet dinner)

September 30, 2013

Session 2:  Trauma and Stroke
Chairs: Avihu Klar & Guy Rosenthal

09:30 – 10:15  Zhigang He (Harvard University, Boston)
Title: Re-building neuronal circuits after CNS injury

10:15 – 10:35  Ronen Leker (Hadassah Medical Center)
Title: Harnessing endogenous neural stem cells for brain repair
following injury

10:35 – 11:00  Break
11:00 – 11:20 Esther Shohami (IDR)
Title: Lost in translation - Failure of the NMDA antagonists clinical trials in TBI and stroke

11:20 – 11:40 Aharon Lev-Tov (IMRIC)
Title: Reactivation of the pattern generation circuitry in the absence of the descending supraspinal control: mechanisms and clinical implications

11:40 – 12:00 Guy Rosenthal (Hadassah Medical Center)
Title: Advanced cerebral monitoring in neurocritical care

12:00 – 13:00 Lunch

Session 3: Neuroimmunology
Chairs: Shlomo Rotshenker & Dimitrios Karussis

13:00 – 13:45 Howard Weiner (Harvard University, Boston)
Title: Neuroinflammatory processes in the pathogenesis and treatment of brain diseases

13:45 – 14:05 Raz Yirima (Psychology)
Title: Intra-hippocampal transplantation of neural precursor cells with transgenic over-expression of IL-1 receptor antagonist rescues memory and neurogenesis impairments in an Alzheimer's disease model

14:05 – 14:25 Shlomo Rotshenker (IMRIC)
Title: Microglia and macrophage activation in injury and neurodegeneration

14:25 – 14:40 Break

14:40 – 15:00 Tamir Ben Hur (Hadassah Medical Center)
Title: Regenerative cell therapies in multiple sclerosis: The existing and missing scientific basis

15:00 – 15:20 Dimitrios Karussis (Hadassah Medical Center)
Title: Clinical experience with the use of adult stem cells in neurological diseases

15:20 – 15:40 Break

Session 4: Neurodegenerative Diseases
Chairs: Ronit Sharon & Ruth Gabizon

15:40 – 16:25 John Hardy (University College, London)
Title: Genetic analysis of neurodegeneration: towards the end game

16:25 – 16:45 Joshua Goldberg (IMRIC)
Title: Up-regulation of sodium currents boosts cortical input to striatal cholinergic interneurons in mouse models of Huntington's disease

16:45 – 17:00 Break

17:00 – 17:20 Ruth Gabizon (Hadassah Medical Center)
Title: mechanism and treatment of genetic prion diseases

17:20 – 17:40 Zeev Meiner (Hadassah Medical Center)
Title: Usage of deep transmagnetic stimulation as treatment tool in dementia and other neurological diseases
<table>
<thead>
<tr>
<th>Time</th>
<th>Session:</th>
<th>Speaker</th>
<th>Title</th>
<th>Institution/University</th>
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<tbody>
<tr>
<td>09:30 – 10:15</td>
<td>Pain</td>
<td>John Wood</td>
<td>Title: Peripheral pain pathways</td>
<td>(University College, London)</td>
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<td>10:15 – 10:35</td>
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<td>Alexander Binshtok</td>
<td>Title: The itching line: Selective silencing of primary afferents reveals two distinct itch-specific sensory lines</td>
<td>(IMRIC &amp; ELSC)</td>
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<td>10:35 – 11:00</td>
<td>Break</td>
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<td>11:00 – 11:20</td>
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<td>Michael Tal</td>
<td>Title: Genotype-selective phenotypic switch in primary afferent neurons contributes to neuropathic pain</td>
<td>(IMRIC)</td>
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<td>11:20 – 11:40</td>
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<td>Yehuda Ginosar</td>
<td>Title: Use of human experimental pain as a pharmacodynamic tool to elucidate mechanisms of action of spinal opioids</td>
<td>(Hadassah Medical Center)</td>
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<td>11:40 – 12:00</td>
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<td>Elyad Davidson</td>
<td>Title: Pain and somatisation- maybe it is all in their head?</td>
<td>(Hadassah Medical Center)</td>
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<td>12:00 – 13:00</td>
<td>Lunch</td>
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<td>13:00 – 13:45</td>
<td>Neuropsychiatric disorders</td>
<td>Paul Krack</td>
<td>Title: STN DBS - from neurology to psychiatry</td>
<td>(Joseph Fourier University, Grenoble)</td>
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<td>13:45 – 14:05</td>
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<td>Renana Eitan</td>
<td>Title: The emotional sub-domain of the subthalamic nucleus in Parkinson’s disease</td>
<td>(Hadassah Medical Center)</td>
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<td>14:05 – 14:25</td>
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<td>Sara Freedman</td>
<td>Title: Cognitive behavior therapy for psychogenic non-epileptic seizures: from theory to practice and back</td>
<td>(Bar Ilan University)</td>
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<td>14:25 – 14:40</td>
<td>Break</td>
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<td>14:40 – 15:00</td>
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<td>Shahar Arzy</td>
<td>Title: Functional changes in psychogenic non-epileptic seizures: a multi-modal investigation</td>
<td>(Hadassah Medical Center)</td>
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<td>15:00 – 15:20</td>
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<td>Hagai Bergman</td>
<td>Title: The basal ganglia as a hub for motor, emotional and cognitive processing - from physiology to brain disorders</td>
<td>(IMRIC, ELSC)</td>
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