**Monday June 13, 2011**

*All morning events will be held in the **Kirstein Living Room***

8:00 AM – 8:30 AM  Breakfast

8:30 AM – 10:00 AM  Lecture: Introduction and Mechanisms of Action of TMS

  *Alvaro Pascual-Leone, MD, PhD*

10:00 AM – 11:30 AM  Lecture: Safety of TMS and Ethical Concerns

  *Alvaro Pascual-Leone, MD, PhD*

11:30 AM – 1:00 PM  Lunch

**Block Rotations:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM - 2:15 PM</td>
<td>Motor Threshold</td>
<td>Phosphenes</td>
<td>Central Conduction Time</td>
</tr>
<tr>
<td>2:15 PM – 3:30 PM</td>
<td>Phosphenes</td>
<td>Central Conduction Time</td>
<td>Motor Threshold</td>
</tr>
<tr>
<td>3:30 PM – 3:45 PM</td>
<td>Break (KS-1 Conference Room)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:45PM – 5:00 PM</td>
<td>Central Conduction Time</td>
<td>Motor Threshold</td>
<td>Phosphenes</td>
</tr>
</tbody>
</table>

- Motor Threshold – *Dylan Edwards, PhD (Lab 4 KS-181)*

- Phosphenes – *Mark Halko, PhD (Lab 2 4th floor KS-449)*

- Central Conduction Time – *Miguel Alonso, MD, MSc (GCRC)*

---


Tuesday June 14, 2011

*All morning events will be held in the Trustman Boardroom

8:00 AM – 8:30 AM BREAKFAST

8:30 AM – 10:00 AM Lecture: Seizure Recognition and Management in TMS\(^1\)

Bernard Chang, MD, PhD

10:00 AM – 11:30 AM Lecture: TMS Screening and Assessment\(^1\)

Ann Connor, RN & Cara Burzynski, RN

11:30 PM – 1:00 PM LUNCH

Block Rotations:

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM – 2:15 PM</td>
<td>rTMS Modifying a Behavior</td>
<td>Brainsight Demo</td>
<td>Nexstim Demo</td>
</tr>
<tr>
<td>2:15 PM – 3:30 PM</td>
<td>Nexstim Demo</td>
<td>rTMS Modifying a Behavior</td>
<td>Brainsight Demo</td>
</tr>
<tr>
<td>3:30 PM – 3:45 PM</td>
<td>Break (KS-1 Conference Room)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:45 PM – 5:00 PM</td>
<td>Brainsight Demo</td>
<td>Nexstim Demo</td>
<td>rTMS Modifying a Behavior</td>
</tr>
</tbody>
</table>

- rTMS Modifying a Behavior – Marine Vernet, PhD (Lab 2 4th floor KS-449)\(^2\)
- Nexstim Demo (EMG Mapping) – Jonathon Spears (KS-179)
- Brainsight Demo – Roch Comeau (Lab 1 4th floor KS-449)\(^3\)

---


Wednesday June 15, 2011

*All morning events will be held in the Kirstein Living Room*

8:00 AM – 8:30 AM  
**BREAKFAST**

8:30 AM – 10:00 AM  
Lecture: Therapeutic Applications of TMS in Neurology

Alvaro Pascual-Leone, MD, PhD

10:00 AM – 11:30 AM  
Lecture: TMS in Animal Studies

Alexander Rotenberg, MD, PhD

11:30 AM – 1:00 PM  
**LUNCH**

Block Rotations:

<table>
<thead>
<tr>
<th>1:00 PM – 2:15 PM</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual lesion experiment</td>
<td>Paired Pulse</td>
<td>Neuronetics Demo</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2:15 PM – 3:30 PM</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paired Pulse</td>
<td>Neuronetics Demo</td>
<td>Virtual lesion Experiment</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3:30 PM – 3:45 PM</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Break (KS-1 Conference Room)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3:45 PM – 5:00 PM</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neuronetics Demo</td>
<td>Virtual lesion Experiment</td>
<td>Paired Pulse</td>
<td></td>
</tr>
</tbody>
</table>

- Virtual Lesion Experiment – Lorella Battelli, PhD (Lab 2 4th floor KS-449)

- Paired Pulse (to one and 2 brain regions) – Fritz Ifert-Miller (GCRC)

- Neuronetics Demonstration – Elana Anastasio (KS-185)


Thursday June 16, 2011

*All morning events will be held in Shapiro 1A

8:00 AM – 8:30 AM  BREAKFAST

8:30 AM – 10:00 AM  Lecture: TMS and Imaging¹
Mark Halko, PhD

10:00 AM – 11:30 AM  Combining TMS and EEG²
Tommi Raij, MD, PhD

11:30 AM – 2:00 PM  LUNCH

11:30 PM – 12:30 PM  Determining Motor Threshold - Practice (Group 1)
Sanjin Tunovic - Lab 2 4th floor KS-449

12:30 PM – 1:30 PM  Determining Motor Threshold - Practice (Group 2)
Sanjin Tunovic - Lab 2 4th floor KS-449

*All Afternoon Lectures will be held in the Reisman Lecture Hall

2:00 PM – 3:15 PM  Lecture: Therapeutic Applications of TMS in Rehab³
Felipe Fregni, MD, PhD

3:15 PM – 4:30 PM  Lecture: Therapeutic Applications of TMS in Pain⁴
Felipe Fregni, MD, PhD

4:30 PM – 5:00 PM  Course Quiz

6:00 PM  Course Social and Dinner
All are invited! (Kirstein Living Room)

Friday June 17, 2011

*All morning events will be held in the Kirstein Living Room*

8:00 AM – 8:30 AM  
**BREAKFAST**

8:30 AM – 10:00 AM  
TMS in Cognitive Neuroscience  
*Jared Horvath*

10:00 AM – 11:30 AM  
Measures of Cortical Plasticity²  
*Lindsay Oberman, PhD*

11:30 AM – 1:00 PM  
**LUNCH**

11:30 AM – 12:30 PM  
Determining Motor Threshold – Practice (Group 3)  
*Sanjin Tunovic - Lab 2 4th floor KS-449*

*All afternoon events will be held in the Kirstein Living Room*

1:00 PM – 2:00 PM  
Lecture: Therapeutic Applications of TMS in Psychiatry³  
*Mark Eldaief, MD*

2:00 PM – 3:00 PM  
Quiz overview, Awarding of Certificates and Feedback Session  
*Dylan Edwards, PhD*

3:00 PM – 4:00 PM  
Designing and Implementing a TMS Clinical Program  
*Daniel Press, MD and Dan Cohen, MD*

3 - Slotema, C. W. et al. Should we expand the toolbox of psychiatric treatment methods to include rTMS? A met-analysis of the efficacy of rTMS in psychiatric disorders. *Journal of Clinical Psychiatry*, 71, 7, 873-884.