

**Brain Research through Advancing Innovative Neurotechnologies® (BRAIN)  
Multi-Council Working Group (MCWG) – Neuroethics Workgroup Meeting**

**Agenda – Tuesday, February 9, 2016**

**National Institutes of Health**  
6001 Executive Boulevard, Rockville, MD  
Conference Rooms A1/A2

- 8:30 am      **Welcome and Introductions**  
*Walter Koroshetz, MD, NINDS*
- 9:00 am      **Update on Complementary Neuroethics Efforts**  
*Neuroethics Workgroup members*
- 9:20 am      **Overview of the Day**  
*Khara Ramos, PhD, NINDS*
- 9:30 am      **BrainGate: Toward a Fully Implantable, Intracortical Brain-Computer Interface**  
*Leigh Hochberg, MD, PhD, MGH and Brown*
- 9:45 am      **Neurophysiologically-Based Brain State Tracking & Modulation in Focal Epilepsy**  
*Gregory Worrell, MD, PhD, Mayo Clinic*
- 10:00 am     **Ethical Considerations in the Study of Deep Brain Stimulation in the Central Nervous System to Treat Cognitive Impairment Following Traumatic Brain Injuries**  
*Nicholas Schiff, MD, and Joseph Fins, MD, Weill Cornell*
- 10:15 am     **Discussion**  
*Moderated by Christine Grady, MSN, PhD, NIH*
- 10:35 am     **BREAK**
- 11:00 am     **Ethical Issues in Human Intracranial Neurophysiology Research**  
*Edward Chang, MD, UCSF*
- 11:15 am     **Penn Restoring Active Memory Program**  
*Michael Kahana, PhD, U Penn*

- 11:30 am **Discussion**  
*Moderated by Hank Greely, JD, Stanford*
- 11:45 am **Background and update on MCWG and BRAIN Neuroethics Workgroup**  
*Christine Grady, MSN, PhD, NIH*
- 12:10 pm **BREAK (to get food and return for working lunch)**
- 12:30 pm **WORKING LUNCH: Prioritization of Issues: 1) Broad Areas of Ethical Concern; 2) Guidance Documents; 3) Topics for Neuroethics Research**  
*Christine Grady, MSN, PhD, NIH, and Hank Greely, JD, Stanford*
- 1:50 pm **BREAK**
- 2:15 pm **NIH/NSF/DARPA/IARPA/FDA Panel Discussion**  
How might each agency contribute to the broader effort to advance neuroethics?
- 3:00 pm **Determining Workgroup Next Steps: Goals and Deliverables**  
*Christine Grady, MSN, PhD, NIH, and Hank Greely, JD, Stanford*
- 4:10 pm **Future Workgroup Schedule/Process**  
*Khara Ramos, PhD, NINDS*
- 4:25 pm **Closing Remarks**  
*Walter Koroshetz, MD, NINDS*
- 4:30 pm **ADJOURN**