



GLOBAL NEUROETHICS SUMMIT | 2017

Name: Global Neuroethics Summit

Date: October 17-18, 2017

Location: Novotel Ambassador, Daegu City, 611, Gukchaebosang-ro, Jung-gu, 41913

Tel: (+82)53/6641101 - Fax (+82)53/6641102 , **Email:** info@novoteldaegu.com

Advisory Board/Organizing Committee Members

Arisa Ema (Riken Center for Advanced Intelligence Project)

Kiyoto Kasai (University of Tokyo, Japan Brain/MINDS)

Sung-Jin Jeong (Korea Brain Research Institute, Korea Brain Initiative) *co-chair

Khara Ramos (US BRAIN Initiative, National Institute of Neurological Disorders and Stroke)

Karen Rommelfanger (Emory University, US BRAIN Initiative Neuroethics Division) *co-chair

Arleen Salles (Uppsala University, Human Brain Project Ethics and Society Subproject)

Ilina Singh (University of Oxford, Our Brain, Our Selves, Our Lives Consortium)

Consultant

Tamami Fukushi (Japan Agency for Medical Research and Development)

Assisted by

Jamila Garrett-Bell (Summit Manager)

Hyunjung Kim (Korea Brain Research Institute)

Sol Lee (Summit Assistant Manager)

Purpose

In a world that is increasingly global – and increasingly engaged in neurosciences – how we educate scientists about the underlying values and ethics that drive brain research across cultural and continental divides is critical. The consequences of cultural misunderstandings are far from trivial for the scientific enterprise. Gaps in understanding lead to missed opportunities for collaboration to advance discoveries; limit our ability to broadly share results and reap benefits of findings; and result in a failure to recognize the unforeseen short- and long-term risks of research. As such, neuroethics has emerged as an essential tool for neuroscience serving in a horizon-scanning function to anticipate and address ethical roadblocks ahead and, ultimately, to advance and accelerate neuroscience.

We now see the proliferation of national-level neuroscience research projects across the globe; some are already integrating neuroethics into the neurosciences. Yet no project has explicitly discussed cross-cultural perspectives in engaging these neuroethics and neuroscience questions, and if they do address neuroethics, they tend to assume a Western bioethics approach.

With generous support from the Kavli Foundation and the Korea Brain Initiative, we will convene representatives from the brain projects from around the globe as well as neuroethicists (who are either already embedded in those projects or neuroethicists from their home countries).

The goal of the summit is to bring these experts together to **create a universal list of neuroethics questions** – critical concerns that arise at the intersection of human brain science and global societal



THE
KAVLI
FOUNDATION



EMORY
UNIVERSITY

Neuroethics Program
Emory Center for Ethics





GLOBAL NEUROETHICS SUMMIT | 2017

ethics – **that that could be addressed by scientists** across all brain projects. Importantly, that list could be adapted and informed by the cultural values and frameworks of each country including and beyond relying on traditionally western philosophical values. This is a very different, yet important strategy for addressing the societal and ethical implications of emerging neuroscience and neurotechnologies. As neuroscience is now a global endeavor, neuroethics must be equally prepared to address global values.

Goals and Deliverables

- Facilitate a community of multidisciplinary scholars who are attuned and inclusive to cross-cultural perspectives when engaging in neuroscience research and policy
- Serve as an idea incubator for research collaborations and future implementation
- Generate a high-profile publication that sets neuroethics priorities for research and scholarship in global neuroscience projects
- Create an online repository for global neuroethics discourse and education

October 16, 2017

Arrival to [Novotel Ambassador](#) 611, Gukchaebosang-ro, Jung-gu (Check-in is 14:00; Checkout is 12:00)

14:00-18:00 Visit to Palgong Mountain and [Donghwasa Temple](#), 1, Donghwasa 1-gil, Dong-gu
*for those who arrived early.

19:00-21:00 Welcome Dinner at Dongsim Restaurant, 194-7, Dongdaegu-Ro
Limo bus will pick up in Hotel Lobby at 18:30

October 17, 2017

Meeting Location: Meeting will be held in Bordeaux A & B Conference Rooms in Novotel

Continental Breakfast at hotel - 8th floor restaurant
Breakfast begins at 6:30

8:00-8:30 Today's speakers/presenters plan to upload slides to computer

8:30-9:00 Welcome New Friends, Goals of Meeting, and Introductions

8:30-8:40 Welcome and Goals from conference co-chairs: *Sung-Jin Jeong, Korea Brain Research Institute (KBRI), Daegu, S. Korea & Karen S. Rommelfanger, Emory Center for Ethics, Atlanta, Georgia, USA*

8:40-8:50 Remarks from partners: *Kyungjin Kim, KBRI; Suk-Joon Hong, General Future Industry Promotion Bureau; Caroline Montojo, Kavli Foundation*

8:50-9:00 Introductions: Brief name/affiliation self-introductions of each participant



THE
KAVLI
FOUNDATION



EMORY
UNIVERSITY

Neuroethics Program
Emory Center for Ethics





GLOBAL NEUROETHICS SUMMIT | 2017

9:00-10:45 Global Brain Projects: Goals and inherent ethical questions initially identified

10min/speaker followed by discussion

Moderator: Karen Rommelfanger, Emory University Center for Ethics, Atlanta, Georgia, USA

This session should include a discussion of the values and beliefs that informed the basis of the selected research foci. Should science primarily/only be directed toward health, toward discovery, toward community, economy & innovation, competition, and national identity? How were these factors weighted in selecting research foci?

1. China Brain Project Jialin Zheng, Tongji University, Shanghai, China
2. EU Human Brain Project Arleen Salles, Uppsala University, Sweden
3. Japan Brain/MINDS Kiyoto Kasai, University of Tokyo, Japan
4. Korea Brain Initiative Sung-Jin Jeong, Korea Brain Research Institute, Daegu, S. Korea
5. US BRAIN Initiative Lyric Jorgenson, National Institutes of Health, Bethesda, Maryland, USA
6. Australian Brain Initiative Patricia Michie, University of Newcastle, Australia

10:45-11:00 Break

11:00-12:00 Discussion of existing guidelines/principles/efforts on ethics of neurotechnologies

5-10min/speaker followed by discussion

Moderator: Ilina Singh, University of Oxford, England, UK

This session will include summary of existing guidelines/principles put forward by professional organizations or workshops. This will include the summary provided prior to the meeting along with draft principles from the OECD September meeting and the NIH BRAIN Neuroethics Division. Here we will work to identify key themes for breakout groups. Speakers will also discuss recurring themes, controversies and questions that have already been asked and still need to be addressed.

11:00-11:40

1. Organization for Economic Cooperation and Development (OECD): Neurotechnology and Society

Hermann Garden and David Winickoff, OECD, International, Paris, France

2. Neuroethics in Japan

Tamami Fukushi, Agency for Medical Research and Development (AMED) Japan

3. NIH BRAIN Neuroethics Division Neuroethics Guiding Principles

Khara Ramos, National Institutes of Health, Bethesda, Maryland, USA

4. Brain Machine Interface and Enhancement in Korea

Sung-Jin Jeong, Korea Brain Research Institute, Daegu, S. Korea

11:40-12:00 Discussion on Themes/Questions from Guidelines/Principles.

This session will be a group discussion where we determine – based on the discussion of guidelines – what the key questions are.

12:00-13:00 Lunch (Bordeaux B Meeting Room)

Each table discusses and selects a representative to present <2min of one key question still an area of controversy or one consistent question that came to mind from earlier discussion in day. Each table presents at 12:45pm.



THE
KAVLI
FOUNDATION



EMORY
UNIVERSITY

Neuroethics Program
Emory Center for Ethics





GLOBAL NEUROETHICS SUMMIT | 2017

13:00-16:05 Case Studies: Cross-cultural perspectives and relevance to brain projects discussion

Presenters discuss case studies of technologies/research projects and provide alternative perspectives on ethical evaluation. This will inform the breakout group work the next 1.5 days

30min/case; Each case presenter and respondent has 5 minutes.

Moderator: Arisa Ema Riken Center for Advanced Intelligence Project, Tokyo, Japan

- 13:00-13:30 China Brain Project Guoqiang Bi, University of Science and Technology, Hefei, China.
Respondent: Paul Root Wolpe, Emory Center for Ethics
- 13:30-14:00 EU Human Brain Project Arleen Salles, Uppsala University, Sweden
Respondent: Osamu Sakura, University of Tokyo, Japan
- 14:00-14:30 Japan Brain/MINDS Eisuke Nakazawa, University of Tokyo, Japan
Respondent: Laura Specker Sullivan, Harvard Medical School, Boston, Massachusetts, USA

14:30-14:45 Break

- 14:45-15:15 Korea Brain Initiative Inyoung Lee, Hongik University, Seoul, S. Korea
Respondent: Syd Johnson, Michigan Technological University, Houghton, Michigan, USA
- 15:15-15:45 US BRAIN Initiative Khara Ramos, National Institutes of Health, Bethesda, Maryland, USA
Respondent: Hagop Sarkissian, City University of New York, USA
- 15:45-16:05 Australian Brain Initiative Adrian Carter, Monash University, Melbourne, Australia
Respondent: Kevin Wu, National Taiwan University, Republic of China

16:05-16:20 Break

16:20-17:20 What are main questions? Mind Map Exercise

Moderators: Paul Root Wolpe & Karen Rommelfanger, Emory University Center for Ethics, Atlanta, GA, USA

This session will be a group discussion where we determine – based on the discussion of guidelines – what the key questions are.

17:20-17:30 Closing: What have we learnt? What have we missed? Goals/Logistics for tomorrow.

Moderator: Karen Rommelfanger, Emory University Center for Ethics, Atlanta, GA, USA

18:00-21:00 Dinner & Reception at Novotel Ambassador

Kyungjin Kim and Sung-jin Jeong reception remarks



THE
KAVLI
FOUNDATION



EMORY
UNIVERSITY

Neuroethics Program
Emory Center for Ethics





GLOBAL NEUROETHICS SUMMIT | 2017

October 18, 2017

Meeting Location: Meeting will be held in Bordeaux A & B Conference Rooms in Novotel

Continental Breakfast at hotel - 8th floor restaurant

9:00-9:15 **Welcome Old Friends:** Recap of Day One and Goals/Logistics for today
*Sung-Jin Jeong, Korea Brain Research Institute (KBRI) Daegu, S. Korea &
Karen S. Rommelfanger, Emory University Center for Ethics, Atlanta, Georgia, USA*

9:15-9:45 **What do we agree upon? What have we missed?**
*Moderators: Karen Rommelfanger, Emory University, USA & Ilina Singh, University of Oxford, UK
This session will be an opportunity for individuals to discuss what we might still need to discuss or discuss more deeply or remark on striking areas of consensus or difference. Discuss themes and number of breakout groups and instructions for breakout groups.*

9:45-10:45 **Breakout Group Part I: Write summaries of questions**
In this session, groups will write a summary about their questions that should be asked across the brain projects relevant to their topic and how they might be approached from a cross cultural perspective; each group will need to select a group reporter/leader.

10:45-11:00 *Break*

11:00-12:30 **Presentations of Summaries and Group Feedback**
<5 min/group x 4-5 groups and group feedback/discussion – any revisions of questions needed?

12:30-13:30 *Working Lunch Discussion: How to integrate these questions into brain projects*
Each table discusses and then presents <2min best idea/table at 13:10

13:30-14:30 **Breakout Group Part II: Edit drafts and include a few words about implementation**
In this session, groups will edit their summaries and refine based on our discussions and also if applicable suggest how to integrate a process of asking these questions within their research projects. Email to Karen these paragraphs by end of summit.

14:30-15:30 **Concluding Remarks and Next Steps**
*Moderator: Karen Rommelfanger, Emory University, USA and Sung-Jin Jeong, KBRI, S. Korea
One comment or take away message from each participant. Timeline for next steps. Jinni discusses evening event.*

16:00-20:00 **KBRI Tour, Cultural Excursion and Dinner** in Daegu City



THE
KAVLI
FOUNDATION



EMORY
UNIVERSITY

Neuroethics Program
Emory Center for Ethics

