



# International Research Retreat

## Ethical, legal and social aspects of human cerebral organoids and their governance in Germany, the U.K. and the U.S.A.

08. - 12. August 2022, Tübingen

Organizers: Gardar Arnason, Robert Ranisch, Oliver Feeney, Anja Pichl  
Research Unit "Ethics of Genome Editing", Institute for Ethics and History of Medicine, Eberhard Karls University  
Tübingen, in collaboration with Faculty of Health Sciences Brandenburg, University of Potsdam

### Monday, 08.08., Casino Otfried-Müller-Str. 6

09:30 - 10:30	Gardar Arnason, Robert Ranisch, Oliver Feeney, Anja Pichl	Opening, Welcome
10:30 – 11:00		Coffee break
11:00 - 12:30	Julia Fitzgerald, Deborah Kronenberg- Versteeg, Simone Mayer, Michela Deleidi	The science of cerebral organoids
12:30 – 13:30		Lunch
13:30 – 14:15	Katherine Bassil	Cerebral Organoids for Stress-related disorders: an Ethical Dilemma
14:15 – 15:00	Maxence Gaillard	Are local theories of consciousness useful for assessing the potentialities of brain organoids?
15:00 – 15:30		Coffee break
15:30 – 16:15	Sarah Diner	From consciousness to pain in ethical discourse on precautionary measures: the role of resemblance in cerebral organoid research
16:15 – 17:00	Alice Chinaia	Re-modelling ethics: a study on scientists' stance about human cerebral organoids
	Gardar Arnason	City tour Tübingen

### Tuesday, 09.08., Casino Otfried-Müller-Str. 6

09:45 - 10:30	Lomax Boyd	The PUBLIC BIOETHICS CORPUS: Designing informational infrastructure for massively parallel public engagement
10:30 - 11:00		Coffee break
11:00 - 11:45	Katharina Trettenbach	In danger of science fiction(s) – when science communication needs philosophy communication



11:45 - 12:30	Vorathep Sachdev	Cerebral organoids and human-animal-chimeras in UK public discourse
12:30 - 13:30		Lunch
13:30 - 14:15	Ozan Altinok	Mapping ethics, imagination, and practice: A comparative study of brain organoids in Germany and the USA
14:15 – 15:00	Melina Antonakaki	What do the 2021 ISSCR Guidelines achieve when they place the need for ethical overview for organoid research a bit further down the line? <i>or, on the role of hybrids of technique and regulation</i>
15:00 – 15:30		Coffee break
15:30 – 17:00	Julia Fitzgerald, Deborah Kronenberg- Versteeg	Visit to the laboratory at DZNE (Otfried-Müller-Str. 23)
20:00	Public event	<i>Brain organoids at Café Haag, Vor dem Haagtor 1</i>

**Wednesday, 10.08., Castle  
Burgsteige 11, Tübingen**

<b>09:00 - 12:00</b>	<b>Hank Greely, Karola Kreitmair, Jeremy Sugarman</b>	<b>Expert session USA</b> (Moderation: Robert Ranisch)
09:00 – 09:40	Jeremy Sugarman	Ethical Considerations for Organoid Research and Clinical Translation
09:40 – 10:20	Karola Kreitmair	Consciousness and the Ethics of Cerebral Organoid Research
10:20 – 10:40		Coffee break
10:40 – 11:20	Hank Greely	Regulatory Questions About Human Brain Organoids: A US Perspective
11:20 – 12:00		Discussion
12:00 – 12:30	Individual appointments or freetime	Mentoring I
12:30 – 13:30		Lunch
<b>13:30 - 15:30</b>	<b>David Lawrence, Alex McKeown</b>	<b>Expert session UK</b> (Moderation: Gardar Arnason)
13:30 – 14:10	David Lawrence	(Brain)storm in a teacup: the UK's lack of response to cerebral organoids
14:10 – 14:50	Alex McKeown	Brain organoid research ethics and pinning the tail on the donkey
14:50 – 15:30		Discussion
15:30 - 16:00		Coffee break
16:00 – 16:30	Appointments or freetime)	Mentoring II
16:30 – 17:00	Appointments or freetime	Mentoring III
18:00 – 20:00	Public event	<i>Human Cerebral Organoids: A Challenge for Ethics and Governance?</i> Alte Aula Tübingen, Münzgasse 30



**Thursday, 11.08., Castle  
Burgsteige 11, Tübingen**

<b>10:00 - 12:00</b>	<b>Silke Schick Tanz, Johannes Mengel</b>	<b>Expert session Germany</b> (Moderation: Anja Pichl)
10:00 – 10:40	Silke Schick Tanz	Ethical and cultural aspects of human cerebral organoids - some comments
10:40 – 11:20	Johannes Mengel	The Leopoldina working group on cerebral organoids: statement and digital dossier
11:20 – 12:00		Discussion
12:00 - 12:30	Appointments or freetime	Mentoring IV
12:30 - 13:30		Lunch
13:30 - 14:15	Lara Wiese	Creation and use of brain organoids from the perspective of German constitutional law
14:15 – 15:00	Hannes Wolff	Patentability of brain organoids derived from iPSC – a legal approach with interdisciplinary aspects
15:00 – 15:30		Coffee break
15:30 – 17:30	Tanja Budde	Writing Workshop
19:00		Conference Dinner at Caro's, Haaggasse 10, Tübingen

**Friday, 12.08., Castle  
Burgsteige 11, Tübingen**

09:45 - 10:30	Joshua Jowitt	Lessons from animal law concerning the development and usage of human cerebral organoids
10:30 - 11:00		Coffee break
11:00 - 11:45	Andrew Barnhart	A Tale of Two Chimeras: Applying the Six Principles to Human Brain Organoid Xenotransplantation
11:45 – 12:30	Tim Lee	The One Health approach: Evaluating cerebral organoid biotechnology with a holistic philosophical and ethical lens
12:30 – 13:30		Lunch
13:30 - 14:30		Final Discussion and Farewell