

## Publications of the Research Collaboration “Psychiatric Neurosurgery - Ethical, legal and societal issues”

**Funding:** Federal Ministry for Research and Education (01GP1621A+B) (Germany), CIHR-INMHA (Canada), and National Institute of Health Carlos III (Spain)

**1.04.2016 - 31.03.2019**

### Journal papers

- **Bittlinger M:** The patient's voice in DBS research: advancing the discussion through methodological rigor. *AJOB Neuroscience* 2017, 8(2): 118-120
- **Bittlinger M, Müller S:** Opening the debate on deep brain stimulation for Alzheimer disease – a critical evaluation of rationale, shortcomings, and ethical justification. *BMC Medical Ethics* 2018, 19(41): 1-23
- **Cabrera LY, Bittlinger M, Lou H, Müller S, Illes J:** The re-emergence of psychiatric neurosurgery: insights from a cross-national study of media coverage. *Acta Neurochirurgica* 2018, 160(3): 625-635
- **Cabrera LY, Bittlinger M, Lou H, Müller S, Illes J:** Reader comments to media reports on psychiatric neurosurgery: past history casts shadows on the future. *Acta Neurochirurgica* 2018, <https://doi.org/10.1007/s00701-018-3696-4>
- Christen M, **Müller S:** Editorial: The clinical and ethical practice of neuromodulation – Deep brain stimulation and beyond. *Frontiers in Integrative Neuroscience* 2017, Vol. 11, Article 32
- Eijkholt M, **Cabrera LY**, Ramirez-Zamora A, Pilitsis JG: Shaking up the debate: ensuring the ethical use of DBS intervention criteria for mid-stage Parkinson's patients. *Neuromodulation: Technology at the Neural Interface* 2017, 20: 411–416
- Gilbert F, Cook M, O'Brien, **Illes J:** Embodiment and estrangement: Results from a first-in-human "Intelligent BCI" trial. *Science and Engineering Ethics* 2017, doi: 10.1007/s11948-017-0001-5
- **Müller S, Bittlinger M**, Walter H: Threats to neurosurgical patients posed by the personal identity debate. *Neuroethics* 2017, 10: 299-310
- **Müller S**, Riedmüller R: Impact of the mild encephalitis hypothesis on the stigmatization of patients with schizophrenia. *Frontiers in Psychiatry* 2017, 8, Article 67
- **Müller S:** Odysseus-Verfügungen mit besonderer Berücksichtigung der Tiefen Hirnstimulation. *Pro. Ethik in der Medizin* 2016, 28(3): 255-258
- **Müller S:** Respect for autonomy in light of neuropsychiatry. *Bioethics* 2017, 31(5): 360-367

- **Müller S:** *Moral Enhancement* durch Neurochirurgie? Machbarkeit und ethische Vertretbarkeit. *Ethik in der Medizin* 2018, 30(1): 39-56
- **Müller S, Bittlinger M,** Brukamp K, Christen M, Friedrich O, Gruber MC, Leefmann J, Merkel G, Nagel SK, Stier M, Jox RJ: Neuroethik – Geschichte, Definition und Gegenstandsbereich eines neuen Wissenschaftsgebiets. *Ethik in der Medizin* 2018, 30(2): 91-106
- Racine E, Dubljevic V, Jox RJ, Baertschi B, Christensen JF, Farisco M, Jotterand F, Kahane G, **Müller S:** Can neuroscience contribute to practical ethics? A critical review and discussion of the methodological and translational challenges of the neuroscience of ethics. *Bioethics* 2017, 31(5): 328-337
- Riedmüller R, **Müller S:** Ethical issues of the mild encephalitis hypothesis of schizophrenia. *Frontiers in Psychiatry* 2017, 8, Article 38
- Specker Sullivan L, **Illes J:** At the ethics interface of the brain computer interface. *Journal of Neural Engineering* 2018, Feb; 15(1):013001.
- **Spranger TM:** Die Willenserklärung bei lebenserhaltenden Maßnahmen, Vorsorgevollmacht, Patienten- und Odysseus-Verfügungen. *Sozialrecht und Praxis* 27 (2017) 9, 595-601
- Viaña JN, **Bittlinger M,** Gilbert F: Ethical considerations for DBS trials in patients with EOAD. *Journal of Alzheimer's Disease* 2017, 58(2): 289-301
- Vidal-Pérez P, Molina-Ruiz R, Sanchez-Iglesias S, Spatola G, Andrés-Olivera P, **Martínez R:** Radiosurgery in obsessive-compulsive disorder, a case report. *Actas Espaniolas de Psiquiatria* 2017, 45(4):179-84

## Book

- Christen M, **Müller S:** The clinical and ethical practice of neuromodulation – Deep brain stimulation and beyond. *Frontiers Research Topics Ebook*, 2017

## Book chapters

- Christen M, **Müller S:** The ethics of expanding applications of DBS. In: Rommelfanger K, Johnson S (Eds.): *Routledge Handbook of Neuroethics*, 2017, 51-65
- Heinz A, **Müller S:** Exaggerating benefits and downplaying risks in the debate on cognitive neuroenhancement. In: R. ter Meulen, A. D. Mohamed, W. Hall (Eds.): *Rethinking cognitive enhancement. A critical reappraisal of the neuroscience and ethics of cognitive enhancement*. Oxford University Press, 2017, 69-86
- Jox RJ, **Müller S:** Neuroethics Research in Europe. In: Racine E, Aspler J (Eds.): *Debates about neuroethics*. Springer Verlag, 2017, 213-224

- **Müller S**, Walter H: Deep brain stimulation combined with optogenetics – ethical considerations. In: Appasani K (Ed.) *Optogenetics*. Cambridge University Press, 2017, 463-469
- **Müller S**: Ethical challenges of modern psychiatric neurosurgery. In: Illes J (ed.) *Neuroethics. Anticipating the future*. Oxford Press 2017, 235-263
- **Müller S**: Ethische Probleme bei neurochirurgischen Gehirninterventionen. In: Jox RJ, Erbguth F: *Angewandte Ethik in der Neuromedizin*. Berlin: Springer, 2017, 139-149

### Poster presentations

- **Bittlinger M, Müller S**: An ethical perspective on deep brain stimulation as an investigational treatment for Alzheimer's disease. 61. Jahrestagung der *Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN)*, Leipzig, 28.04.2017
- **Bittlinger M, Müller S**: Deep brain stimulation as novel approach for Alzheimer disease: the emerging ethics of research rationale. *WSSFN Congress*, Berlin 26.-29.06.2017
- **Bittlinger M, Müller S**: Ethical Considerations for Deep Brain Stimulation for Alzheimer: the Importance of Methodological Rigor and Scientific Validity. *ERA-NET NEURON Mid-Term Symposium*. Riga, 18.09.2017
- **Cabrera L, Lou H, Bittlinger T, Müller S, Illes J**: Contemporary Psychiatric Neurosurgery: Updates on a Cross-National Comparison of Trends in Media Coverage and Public Attitudes. *ERA-NET NEURON Mid-Term Symposium*, Riga, 18.-20.09.2017
- **Cabrera L, Lou H, Bittlinger T, Müller S, Illes J**: Centering the re-emergence of psychiatric neurosurgery: A cross-national comparison of ethical and societal concerns in media coverage. *American Society for Bioethics and Humanities*, Kansas City, Oct. 2017
- **Cabrera L**: Responsible translation of contemporary neuroscientific advances: A critical appraisal of the recent U.S. FDA approval for earlier DBS intervention in Parkinson disease. *Lost in the Maze? Navigating Evidence and Ethics in Translational Neuroscience*, Hannover, Feb. 2018
- Gilbert F, Cook M, O'Brien T, **Illes J**: Embodiment and estrangement: Results from the first-in-human "Intelligent BCI" trial. *International Neuroethics Society*, Washington 2017
- **Joschko A**: Crucial challenges in the fields of personality change, personal identity and their legal classification. *ERA-NET NEURON Cofund Meeting*, Riga, 18.-20.09.2017
- **Müller S**, Riedmüller R: Medizinethische Diskussion der Milde-Enzephalitis-Hypothese der Schizophrenie. 61. Jahrestagung der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Leipzig, 28.04.2017

- **Raymaekers S**, Demyttenaere K, Luyten L, Nuttin B, **Gabriëls L**, **Bervoets C**: Invasiveness of deep brain stimulation for obsessive-compulsive disorder: patient perspective. *World Federation of Societies of Biological Psychiatry (WFSBP)*, Copenhagen 2017, <http://www.wfsbp-congress.org/index.php?id=239#/details/session/145>
- **Raymaekers S**, Van Duppen Z, Demyttenaere K, Luyten L, **Gabriëls L**, Nuttin B, **Bervoets C**: Deep brain stimulation and anterior capsulotomy: the question of autonomy. *EPA*, Firenze 2017, <https://doi.org/10.1016/j.eurpsy.2017.02.249>
- **Rödiger C**: Intervening the defendant's Brain? Legal implications of brain imaging and neurosurgery. *International Neuroethics Society*, Annual Meeting in Washington D.C., USA, 9.-10.11.2017
- Roskams-Edris D, Anderson-Redick S, Kiss Z, **Illes J**: Medical method patents and neuromodulation: Understanding the present and shaping the future. *International Neuroethics Society*, Washington, DC, Nov. 2017
- Viaña JNM, **Illes J**, Gilbert F: Ethical considerations for cell implantation in Alzheimer's disease. *International Neuroethics Society*, Washington, DC, Nov. 2017

## Talks

- **Bittlinger M**: Ethical Considerations for Innovative Research Involving Unknown Risks: The Example of Deep Brain Stimulation for Alzheimer Disease. Annual Meeting of the International Neuroethics Society. Washington, DC, USA, 9.11.2017
- **Bittlinger M**: What Makes Risky Innovative Research Good? An Argument for Evidence-Based Criteria for Risk-Benefit Assessment by the Example of Deep Brain Stimulation for Alzheimer Disease". 61<sup>st</sup> Annual Meeting of the Akademie für Ethik in der Medizin e.V., Hannover, Germany, 28.09.2017
- **Bittlinger M**: Deep Brain Stimulation for Alzheimer disease. Neuroethics Work group, Akademie für Ethik in der Medizin e.V., Göttingen, Germany, 6.12.2016
- **Müller S**: Modern psychiatric neurosurgery – Ethical issues. Neuroethics Conference, Padua, Italy, 19.05.2016
- **Müller S**: Threats to DBS patients posed by the personal identity debate. Neuroethics Network Meeting, Paris, 30.06.2016
- **Müller S**: Behandlung von geistig behinderten Jugendlichen mit massiver Selbst- und Fremdgefährdung mittels ablativer Neurochirurgie. Jahrestagung der Akademie für Ethik in der Medizin. Workshop „Gezielte Veränderungen der Persönlichkeit mittels Hirneingriff und Würdeschutz“, Bielefeld, 22.09.2016
- **Müller S**: Freiheit in der Medizin. Anthropologie der Freiheit? Menschenbild und freier Wille im Blick der Neurowissenschaft, Katholische Akademie, Berlin, 30.09.2016
- **Müller S**: Zwangsstörung – Tiefe Hirnstimulation, Gamma Knife-Radiochirurgie und ablativ Neurochirurgie im Vergleich. Kongress der Deutschen Gesellschaft für Psychiatrie, Psychotherapie und Nervenheilkunde (DGPPN), Berlin, 25.11.2016
- **Müller S**: Threats to DBS patients posed by the ethical debate about personal identity changes. Congress of the World Society of Stereotactic and Functional Neurosurgery (WSSFN), Berlin, 27.06.2017

- **Müller S:** PNS – Psychiatric Neurosurgery – Ethical, Legal and Societal Issues. ERA-NET NEURON Confond Meeting, Joint Mid-Term Symposium of JTCs 2015: “Neurodevelopmental Disorders” & “Ethical, Legal, and Societal Aspects (ELSA) of Neuroscience”, Riga, Latvia, 18.09.2017
- **Müller S:** Ulysses testaments and advance directives for allowing compulsory treatments. World Psychiatric Association Congress, Berlin, 9.10.2017
- **Müller S:** Decision-making capacity and supported decision-making – the position of the Central Ethics Committee of the German Medical Association. World Psychiatric Association Congress, Berlin, 12.10.2017
- **Müller S:** Bin ich noch ich? Chancen und Risiken neurologischer und neurochirurgischer Interventionen. Krankenhaus Barmherzige Brüder, Regensburg, 6.11.2017
- **Müller S:** Gedankenexperimente über Menschenexperimente in der forensischen Psychiatrie: Tiefe Hirnstimulation für pädophile und psychopathische Straftäter. Tagung „Forschung mit besonders vulnerablen Gruppen in der Psychiatrie“, Akademie für Ethik in der Medizin, 7.02.2018
- **Spranger TM:** Memory and Consciousness, Law and Physiology, MEF University Istanbul, 20.04.2018