

Tentative Outline

Obsessive compulsive disorder: Neurobiology and Treatment

Sectional Editor:

• Scope of the Thematic Issue:

This thematic issue would focus on Obsessive Compulsive Disorder (OCD) and would cover the following themes: current neurobiological hypotheses for OCD pathophysiology, neuroimaging findings, neuromodulation therapies, cognitive behavioral therapies, and existing and experimental pharmacological therapies. The overarching goal of this collection of papers is to provide a forum for integrating findings from diverse fields of the study of OCD. In particular, the issue would aim to integrate findings from the fields of cognitive behavioral therapy, neurobiology/neuroimaging, and neuropharmacology.

Obsessive compulsive disorder; cognitive behavioral therapy; neuromodulation; basal ganglia; anterior cingulate; orbitofrontal cortex; insula; habit

Keywords: 6 to 8 keywords should be provided.

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Hypotheses for OCD pathophysiology
 - 1) The involvement of basal ganglia looped circuits, goal-directed behavior, and habit.
 - 2) The anterior cingulate and altered error processing and action monitoring
 - 3) Brain network models
 - 4) Altered proprioception
 - 5) Altered interoception.
 - 6) Infection, autoimmunity, and inflammation in OCD
- Neuromodulation therapies
 - 1) Deep brain stimulation
 - 2) Direct current stimulation
 - 3) Transcranial magnetic stimulation
- Neuroimaging findings
 - 1) Functional Magnetic Resonance Imaging (fMRI)
 - 2) Diffusion tensor imaging
- Cognitive behavioral therapy and Metacognition: Possible neurobiological substrates
- Genetics and endophenotypes of OCD

Tentative titles of the articles and list of contributors

Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses should be provided.

- 1) Pathophysiology of Obsessive Compulsive Disorder: The involvement of basal ganglia looped circuits, goal-directed behavior, and habit.

Dr. Claire Gillan Trinity College Dublin gillancl@tcd.ie

- 2) Pathophysiology of OCD: the anterior cingulate and altered error processing and action monitoring

Dr. Norbert Kathmann Humboldt University Berlin kathmann@rz.hu-berlin.de

- 3) Brain networks in the pathophysiology of OCD

Dr. Mary Phillips University of Pittsburgh fmristudies@upmc.edu

- 4) Pathophysiology of OCD: a pathophysiological role for altered proprioception?

Dr. Reuven Dar Tel Aviv University ruvidar@freud.tau.ac.il

- 5) Pathophysiology of OCD: a pathophysiological role for altered interoception?

Dr. Emily Stern NYU Langone Health Emily.Stern@nyulangone.org

- 6) Emerging therapies for OCD: Deep brain stimulation

Dr. Emad N Eskandar Einstein College of Medicine emad.eskandar@einsteinmed.org

7) Emerging therapies for OCD: Transcranial magnetic stimulation

Dr. Lior Carmi Tel Aviv University lior.carmi@sheba.health.gov.il

9) Neurobiology of OCD: Findings from functional Magnetic Resonance Imaging (fMRI)

Dr. Jan Beucke Medical School Hamburg jan.beucke@medicalschoo-hamburg.de

10) Neurobiology of OCD: Findings from diffusion tensor imaging

Dr. Nikolaos Makris Harvard University nikos@cma.mgh.harvard.edu

11) Cognitive behavioral therapy for OCD: Therapeutic strategies and possible neurobiological substrates.

Dr. Marilyn Cyr Columbia University Dept Psychiatry marilyn.cyr@nyspi.columbia.edu

12) Metacognition and OCD: Therapeutic strategies and possible neurobiological substrates

Dr. Jonathan S Abramowitz University of North Carolina Chapel Hill jon.abramowitz@gmail.com

13) Genetics and endophenotypes of OCD

Dr Michael Wagner University of Bonn, Germany michael.wagner@dzne.de

14) Pharmacology of OCD: Current and experimental pharmacotherapies.

Dr. Brian Harvey North West University, South Africa brian.harvey@nwu.ac.za

Schedule:

✧ Thematic issue submission deadline:
August 1, 2022

Contacts:

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