

## 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](mailto: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](mailto:kathmann@rz.hu-berlin.de)

- 3) Brain networks in the pathophysiology of OCD

Dr. Mary Phillips                      University of Pittsburgh                      [fmristudies@upmc.edu](mailto:fmristudies@upmc.edu)

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

Dr. Reuven Dar                      Tel Aviv University                      [ruvidar@freud.tau.ac.il](mailto: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](mailto:Emily.Stern@nyulangone.org)

- 6) Emerging therapies for OCD: Deep brain stimulation

Dr. Emad N Eskandar Einstein College of Medicine [emad.eskandar@einsteinmed.org](mailto:emad.eskandar@einsteinmed.org)

7) Emerging therapies for OCD: Transcranial magnetic stimulation

Dr. Lior Carmi Tel Aviv University [lior.carmi@sheba.health.gov.il](mailto: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](mailto:jan.beucke@medicalschoo-hamburg.de)

10) Neurobiology of OCD: Findings from diffusion tensor imaging

Dr. Nikolaos Makris Harvard University [nikos@cma.mgh.harvard.edu](mailto: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](mailto: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](mailto:jon.abramowitz@gmail.com)

13) Genetics and endophenotypes of OCD

Dr Michael Wagner University of Bonn, Germany [michael.wagner@dzne.de](mailto: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](mailto:brian.harvey@nwu.ac.za)

#### **Schedule:**

✧ Thematic issue submission deadline:  
August 1, 2022

#### **Contacts:**

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