

## Tentative Outline

Special Thematic Issue for the journal *Current Neuropharmacology*

Title of the Thematic Issue

### **Early life programming of neurodegenerative diseases and novel strategies to reduce the risk**

**Guest Editors: Dr. MG Frasch**

**Marta C. Antonelli, PhD**

#### **Scope of the Thematic Issue:**

On early life programming of neurodegenerative diseases and the development of strategies to reduce the risk *via* timely pharmacological and behavioral interventions.

We would like to cover

- 1) the spectrum of early life origins of life-long neuropsychiatric disabilities,
- 2) novel technologies to detect altered neurodevelopmental trajectories at an early stage allowing for timely interventions,
- 3) the emergent role of metabolic dysregulation as a binding functional element in the etiology of several neurodevelopmental and senescent disorders
- 4) resulting pharmacological and neurobehavioral therapeutic interventions to steer the altered developmental trajectories to their optimum at an early stage using non-invasive monitoring as a therapeutic guide.

**Keywords:** Early-life injury, developmental programming, stress, inflammation, immunometabolism, immunosenescence, glia, prevention, functional recovery, Alzheimer's, Parkinson's.

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

- DOHaD for neurodegeneration
- Non-invasive monitoring of neurodevelopment
- Metabolic programming of neurodevelopment
- Therapeutic targets for early correction of altered neurodevelopment

#### **Schedule:**

- ✧ Thematic issue submission deadline: January 31, 2021

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