

6th World Congress on

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KEYNOTE FORUM | DAY 1

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Cognitive disorders and mental health: Neural correlates in contemplative therapy

Writing in 2006, on the occasion of the 100th anniversary of Alois Alzheimer's first description of Alzheimer's Dementia (AD), Dr K Jellinger of the Institute of Clinical Neurobiology, Vienna noted 'that despite considerable progress in the clinical diagnosis, neuroimaging, genetics, molecular biology, neuropathology, defining risk factors, and treatment, the etiology of the disease is still unknown and, therefore, a causal treatment of AD will not be available in the near future.' Similar absences mark studies of other notable cognitive diseases, like schizophrenia, suggesting that current models and experimental studies may be directed to non-etiological features of the diseases. Significantly, cognitive diseases display both mental and physical symptomatic signatures. Hence, new conceptions on what is being progressively impaired in these diseases are needed to underwrite

therapeutic advances both for the restoration of mental as well as physical health. Such inferences are likely to come from studies on the brain's global regulation since a key symptom of these diseases is a pathological progression in the loss of self-perception. Existing studies reveal, for example, that a fundamental brain network needed for the self construct, the default mode network (DMN), which is critical to monitoring the external environment, bodily states, and even emotions, is impaired in AD. Furthermore, functional MRI shows that activity in the posterior cingulate and right inferior temporal cortex and that in the bilateral inferior parietal cortex, are differentially affected, reflecting a weakening of causally influential relations amongst the DMN principal nuclei. Schizophrenia patients, on the other hand, display an inability to identify self-initiated actions, which is likely due to a failure to link self-representations to the body, that may originate in the DMN and premotor cortices. Therapeutic strategies that enhance the

**Denis Larrivee**

Loyola University Chicago , USA

neural underpinning of self-representation may, therefore, delay symptomatic progression in these diseases. Increasing evidence suggests that practices that enhance self-integration, like contemplation, may assist in strengthening these features. This talk will discuss current research on the impact of these cognitive diseases on the neural representation of the self, and the potential use of the contemplative practice in strengthening the self-representation and delaying the symptomatic onset.

Biography

Denis Larrivee is a Visiting Scholar at the Mind and Brain Institute, University

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of Navarra Medical School and Loyola University Chicago and has held professorships at the Weill Cornell University Medical College, NYC, and Purdue University, Indiana. A former fellow at Yale University's Medical School he received the Association for Research in Vision and Ophthalmology's first place award for studies on photoreceptor degenerative

and developmental mechanisms. He is the editor of a recently released text on Brain-Computer Interfacing with InTech Publishing and an editorial board member of the journals Annals of Neurology and Neurological Sciences (USA) and EC Neurology (UK). An International Neuroethics Society Expert he is the author of more than 70 papers and book chapters

in such varied journals/venues as Neurology and Neurological Sciences (USA), EC Neurology (UK), Journal of Neuroscience, Journal of Religion and Mental Health, and IEEE Explore. In 2018 he was a finalist in the international Joseph Ratzinger Expanded Reason award.

sallar1@aol.com