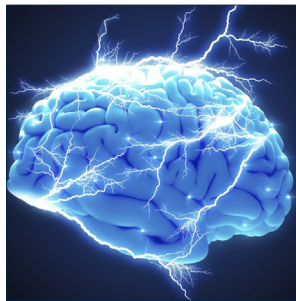
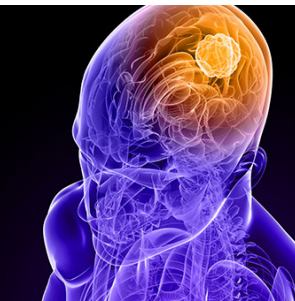

Scientific Tracks & Sessions

November 04, 2019

Health 2019

Neuroscience 2019



Joint Event on
3rd International Conference on
Health Care and Health Management
&
6th International Conference on
Neuroscience and Neurological Disorders

November 04-05, 2019 | Prague, Czech Republic

Inflammation in psychiatric disorders and what to do about it?

Bc Vojtěch Hlaváček

Academy of Science of Czech Republic, Czechia

Statement of the Problem: Psychiatric disorders are becoming an increasing problem and possess a socio-economic burden on societies worldwide. There has been an association between inflammation and psychiatric disorders for some time now, but the causal relationships and mechanisms are not fully understood yet. Better understanding of those mechanisms could help us in dividing patients into different mechanistic subtypes which could react differently to a treatment. That way we could prescribe the most effective treatment depending on the mechanism involved. Inflammation is sensitizing an individual to react in more pro-inflammatory fashion to a stressor leading to chronically inflamed states. This is something that we can observe in an array of mechanisms, which creates many positive inflammatory feedback loops. Those feedback loops are very hard to interrupt, because they reinforce each other, plus the immune system is overreacting to subsequent stressor creating a vicious cycle. This could potentially lead to development of neurodegenerative diseases. As it turns out, physical activity acts on several of those mechanisms involved

in inflammatory feedback loops at the same time, making it an ideal prevention/treatment candidate. It plays a huge role in regulation of inflammation in anti-inflammatory manner and might be one of the ways to prevent and treat patients with psychiatric disorders such as major depressive disorder as well as neurodegenerative diseases. This thesis is going to explore relationship between inflammation and mental health. Possible causal relationships between inflammation and psychiatric disorders will be discussed. Mechanisms involved in inflammation regulation, effects of physical activity and inflammation induced pathology observed in psychiatric disorders will be described.

Speaker Biography

Bc Vojtěch Hlaváček is a passionate student of neuroscience focusing on inflammation and development of psychiatric disorders. He is focusing on improving our daily experience with reality, because that is all we have. Because of that, he is creating a Czech podcast Brain We Are CZ, where he shares his expertise and original concepts that he came up based in principles from neuroscience.

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Notes:

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Nilpotent quantum mechanics, NQM, nature's IT; How brain's work occam's razorwise!

Peter J Marcer

Royal Chartered British Computer Society, UK

Feynman's prescient '62 Caltech paper 'There's always room at the bottom' inspired my '84-85 case (1) that 'the ultimate form of the laws of physics is set by the nature of the thermodynamics of computation, so that the universality and unity of physical law achieved, could & now does solve in the form of Nilpotent Quantum Mechanics NQM (2-5) not only the riddles of cosmology & elementary particle physics, but those of molecular biology and intelligence including machine intelligence. For conceived, defined & reformulated by Rowlands' & Diaz 2002 crucial key discovery, the universal nilpotent computational rewrite system UNCRS language L defining NQM (4), has an extensive peer reviewed history of much prior & on-going independent & collaborative research often well tested by experiment. UNCRS provides a definition of Natural Intelligence, including but distinct from AI/machine intelligence, in terms of the computational principles by which a sentient being may make sense of a quantum universe (2)(3)(5)(6). One that results in a sentient physical architectural hierarchical evolution of intelligence, creativity and consciousness (7), Nature's IT, of a neuron-brain/glia-mind/microtubule-self by means of an autonomous

self-governed cosmological thermodynamics of entirely novel states of matter, as in K.G.Wilson's 1982 Nobel Prize renormalization group approach (8), entirely emergent from a totally degenerate state of 'dark matter' to provide a theory that treats the physical cosmos/universe at all times as single indivisible whole, all that exists – its automorphisms.

Speaker Biography

Peter Marcer has always worked in a highly innovative technological & managerial capacity at the cutting edge of computer systems development. In '82 with the advent of VLSI, he began a consulting career & the pursuit of some original ideas in regard to the thermodynamics of computation to how human brains might work. This has resulted in some 80+ often peer reviewed journal publications & continues today, via various serendipitous academic & scientific society collaborations including the EU '98-'99 Pathfinder Project on Quantum Computing resulting in 30 million euros for potential EU university qubit projects. In particular he is a founder & chair of the British Computer Society Cybernetic Machine Specialist Group, with its meetings programme of from '92-15 Saturday & International Symposia. And he is still active Fellow FBCS of the Royal Chartered British Society.

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