

14th World Summit on

Alzheimer's Disease, Dementia Care Research and Awareness

&
6th World Summit on **Heart, Stroke and Neurological Disorders**

August 31- September 01, 2018 | Boston, USA

The quantum theory of entanglement and Alzheimer

Shantilal Goradia

University of Nebraska, USA

We explain simply how our quantum theory of gravity on the preprint and now in our book gives birth to the quantum theory of entanglement applicable to biomedical physics. Per Newtonian gravity, the force between two masses (particles) is inversely proportional to their separation. In quantum physics, the forces of the constants of Nature arise from the probability of particle interactions in space. We unite the above two forces by substituting the later for the former to come up with a statement that the sum of force created by the probability of particle interactions is inversely proportional to the square of the separations of the particles, making probabilistic appearance of constants of Nature, otherwise on the side, the fundamental cause of gravitation. This has a profound implication that one particle can interact with multiple particles instantaneously throwing light on dark matter, providing the logical basis for the Newtonian Inverse Square. Considering the measurement problem, we say that the same multiple particles reciprocate and get entangled as do the musicians looking at the orchestra director. Quantum tunneling is the proof that particles interact in space and the Schrodinger's equation describes that a particle gives rise to probabilistic interpretations of a particle. Spooky entanglement has been observed repeatedly, demanding a scientific explanation. Here, we incorporate the observations to investigate medical problems. The ON and OFF particle interactions of the electrons in microtubule-associated protein every Planck time will constitute the 0, 1 or superposition state of the information system functioning globally throughout the brain connecting different sections of the brain even where the structural connection between neurons is questioned, as implied in the oral presentation at The Science of Consciousness Conference TSC 2018 in Tucson, Arizona, after the publication of our American Physical Society April Meeting 2018 Abstract. The patterns of variation in the functional and structural connections between neurons overpowering certain sections of the brain over the others could potentially cause bipolar and other diseases. Age-related structural changes could impact the process leading to Alzheimer's. The pronounced entanglement at nano-scale separations of electrons in biology could have an overall effect in biomedical systems interconnected with consciousness. The entanglement would be more pronounced at Planck scale interactions of electrons which may never be able to measure at that scale due to the measurement problem. Therefore, we cannot rule out the formation of micro-tubule condensates, speculated by the anesthesiologist and psychologist Dr. Stuart Hameroff of The University of Arizona. We provide a substitute (ORCH SE, orchestrated subjective experience) for the core Penrose, Hameroff 1996 hypothesis ORCH OR (orchestrated objective reduction) with this introduction of the spooky, non-local quantum theory of entanglement with the hope of a more clear application to neurology, psychiatry and other medical issues in addition to consciousness.

Shantilalg1@juno.com