**CLARITY opens window to brain circuitry, new era for neuroscience (NSF)**

With support from the National Science Foundation (NSF), neuroscientist and psychiatrist Karl Deisseroth and his multidisciplinary team at Stanford University have developed a new imaging technology that essentially makes the brain transparent. The connections between neurons in the brain are involved in everything we do, and no one's pattern is the same. They chemically dissolve the opaque tissue in a post-mortem brain, and in place of that tissue, they insert a transparent hydrogel that keeps the brain intact and provides a window into the brain’s neural structure and circuitry. They can then generate detailed 3-D images that highlight specific neuronal networks.

Clarity is the study of circuitry of the brain by chemically dissolving the white opaque tissue. To develop a brain artificially first we have to know how a brain work and its composition. Learn how things are connected to each other. Neuron is the basic component of brain , dendrites in receive inputs from all over the brain and sends electric impulse to the respective organ which results in the performing an action. Clarity is a new window which helps for the advancements in medical sciences and this helps us to know the functioning of heart, spinal cord and other organs .This will help to know the Neural Network clearly. Mainly how human thinks and acts accordingly in the day today life. This will even be helpful to make the robots think like human in all aspects.