Summary

RF-EMR exposure for a period of one month was capable of inducing an imbalance in the oxidant/antioxidant defence system in the adolescent rat brain. This indicates that, the internal environment of each brain cell was disturbed by the insult from RF-EMR. Such a change in the internal environment would not favor the nerve cells to function appropriately. Whenever the physiological limit is attained, either the cell gives up or functions abnormally or dies. This change is termed as structural change or morphological change. Often what is happening in cellular level is exteriorized in the behaviour of an organism. However, it is highly difficult to categorically join up biochemical change, morphological change and then behaviour. This is because, an imbalance in the biochemical homeostasis would itself alter the behaviour which might not be structurally represented and vice versa. Therefore, it is advisable to have a precautionary measure to reduce continuous and chronic exposure to RF-EMR from mobile phone and other RF-EMR emitting devices. There might be certain restrain mechanisms in the body to prevent such changes especially in the brain. However currently we do not know this as there are no concrete experimental evidences that pinpoint or demonstrate these mechanisms.