

Brain Micro-Plasticity

Abbas Alnaji*

Consultant Neurosurgeon, Al-sadir Medical City, Najaf, Iraq

***Corresponding Author:** Abbas Alnaji, Consultant Neurosurgeon, Al-sadir Medical City, Najaf, Iraq.

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All of us know for some extent about brain plasticity BP. Here, I want to introduce the concept of brain micro-plasticity BMP. It is the depth of ocean. Mathematically, BP is the derivative of MBP, both of them are points draw the equation of line of "intelligence generation, evolution or accommodation". Philosophically, MBP directs the BP. In general speaking, BP in its glory and complexity is the net of MBP. Wildly BP is the change in brain parenchyma neurons and glial cells geometry with/out a change in the pattern of interneuron connections for a reason or another. Here it became obvious MBP is related to the sub-cellular level !! the organelles, the ground substance and the cell wall. In fact, NO, not that!! It is related to the macromolecules making those three and hence the cell made from. Cell is a sum of chemical compounds in certain glorious design and mysterious function. It is well known that these chemicals are structural (still) and other is functioning (dynamic). The BMP deals with this "still" portion of the cell. As we do not see brain moves before our naked eyes to say it has plastic capability to change its geometry! The same is true for the MBP! Macromolecules making the cell are in reaction towards two actions! First; to the same physical events affecting the dynamic or functional molecules, but in slow motion goes with their specificities. The second; structural macromolecules respond to the dynamic or functional molecules in some manner also obeys their heaviness, this coming from doctrines of motion and action/reaction which are theoretically not happen unless there is an obsolete zero temperature. So as the cell in a condition away from this zero, there is some reactivity in all levels but accordingly. From this, the soul of cell build is in a continuous chemical reactions whatever it is. Chemists know very well that macromolecules have a given shape or configuration which is a functional one like the tools to achieve certain job it has certain shape. These macromolecules will gain another configuration after being matched with others. These reactions and change in shape is a three dimensional or spacial. If we put the time factor a side because this is another dilemma or issue we realize or can see in our mind the ballet play with which these events go, so they all are in move. This move has an inherited goal. This goal is to accommodate events. Events are chemicals too. Events are physiologic but could be pathologic. This view explains or try to show the way by which cells how deal with the foreign chemicals like the toxins (enzymes or others) secreted from invaders like the intracellular bacteria. From the above we see the intracellular composition is in ever change if someone say it is of limited or a train rail like scope, I say no, look for the development which is the good and the pathological changes which are the bad. This bad one every researcher in the field of diseases struggle should be aware of. Both BP and MBP are forming one line coordinate, points to integrity of function and more seriously it refers to or it is a part of the unified equation that runs the existence of our awarded universe.

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