The chapter is devoted to some applications of TGD inspired view about Quantum Mind to biology. Magnetic body carrying dark

matter and forming an onionlike structure with layers characterized by

large values of Planck constant is the key concept. Magnetic body is identified as intentional agent using biological body as sensory receptor

and motor instrument. EEG is identified as a communication and control tool

of the magnetic body and a fractal hierarchy of analogs of EEG is predicted.

Living system is identified as a kind of Indra's net with biomolecules representing the nodes of the net and magnetic flux tubes

connections between then. The reconnection of magnetic flux tubes and

phase transitions changing Planck constant and therefore the lengths of the

magnetic flux tubes are identified as basic mechanisms behind DNA replication and analogous processes and also behind the phase transitions

associated with the gel phase in cell interior. The braiding of magnetic

flux makes possible universal memory representation recording the motions

of the basic units connected by flux tubes. Braiding also defines topological quantum computer programs updated continually by the flows of

the basic units. The model of DNA as topological quantum computer is

discussed as an application.

A vision about quantum metabolism in TGD Universe is proposed. The new

element is the idea that the presence of ATP at magnetic flux tube is a

necessary prerequisite for negentropic entanglement between its ends. ATP

could be seen as a molecule of consciousness in this picture. Also a possible modification of second law to take into account negentropic entanglement is discussed. TGD approach to living matter was strongly

motivated by the findings about strange behavior of cell membrane and of

cellular water, and gel behavior of cytoplasm. These findings are

discussed in TGD framework by bringing in magnetic flux tubes as a new

element. Water is in key role in living matter and TGD inspired view about water and its anomalies is discussed.