Biological Multichotomies – The Path Towards Dr. Patrick Soon Shiong's Quantum Onco-Therapeutics?

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On and Off- The Dichotomy of T-Cells

When investigating the behavior of T-cells (and other cells critical to the human immune system), Dr. Soon Shiong discovered a dichotomy regarding the cells' state of existence. They appear to exist as switches with an on and an off state. For the layman it may be a bit surprising to find that an important immune cell can appear in an off-state, as he might think that this cell has no use in such a form of existence, but Dr. Soon Shiong discovered that the off-state is of need in order to regulate or balance out the cell's activity and assure that they cannot run amok on their host[1].

From Treatment to True Healing

This understanding of the cells is very important to cure cancer and many other diseases, because it shows us how to activate and de-activate the cancer-destroying immune cells in a lasting manner, so that they can clear out the body of all pathogenic cells, molecules and germs (hence, not just cancer but also viruses, bacteria, prions and other microbes). Thereby, the various states of existence of the T-cells show a clear quantum dynamic pattern. Hence, Dr. Soon Shiong's naming "**Quantum** Onco-Therapeutics". From a molecular-biological standpoint this is anything but surprising, because – after all – it is molecular processes, which control the cells and many of their functionalities. However, as this does not happen on the usual valence level of atoms and "ordinary sized" molecules, it requires a "Higher Order Chemistry" [1] and the interactional dynamics of coherent domains [2, 3] to properly model and understand the transfer of quantum properties into the macromolecular and cellular scale. To recognize this is important also with respect to a correct statistical treatment of the associated biological experiments and medical studies [4, 5] (test of new treatments, for instance), because it leads to a completely different statistical behavior in comparison to ordinary macroscopic matter. This becomes immediately clear when simply considering the huge differences of bosonic and fermionic entities and, as the theory [2, 3, 4, 5] shows, multichotomic matter has the ability to sport even stranger behavioral patterns.

The same quantum behavior can also be observed in many other biological processes. A good and quite-well-understood example here is the Glycogen-Synthase-Kinase-3 complex which shows a significant on-off-behavior in connection with the exchange of magnesium and lithium ions.

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[1] We suggest the following interview for a general and quite entertaining introduction into the matter: https://www.youtube.com/watch?v=mgZaT-OriO8&t=28s

Connection to RASA®-energy

It may come as a surprise to some, but the technology of the so-called Polar Selective Agents [6] is based on such a molecular multichotomy. Hence, here is RASA®'s chance to expand towards the medical sector and significant health applications.

References

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[3] N. Schwarzer, "Supra Fluid Universe – The Way of Coherent Domains: Solving a few Problems", 2025, a SIO science book, www.siomec.de

[4] N. Schwarzer, „The Quantum Gravity Expectation Value" , 2025, a secret SIO publication, www.siomec.de

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