

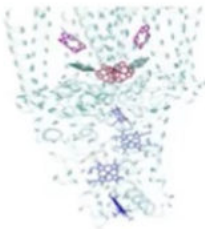
# QT #23: Why is life helical?

DNA only codes for proteins. When you think about this for a moment, it is quite odd. Life just does not use proteins to get the job of living done. Why don't we code for other things? Is there a deep reason for this that we missed in basic biology?

Divergent thinking is the center of human creativity and most people believe we are born with it but I do not believe this. I believe we can teach people how to think more broadly by learning to examine things we do not believe or accept to see if they have merit or not. Divergent thinking can be acquired and developed skill when you get "skin in the game". I now excuse people who sense life with tiny thinking.

## Quantum effects in biomolecular complexes

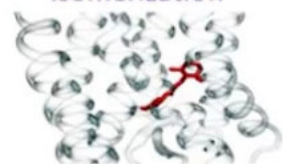
Charge separation in reaction centres



Excitation transfer in light-harvesting



Excited-state vibrational dynamics in photo-isomerization

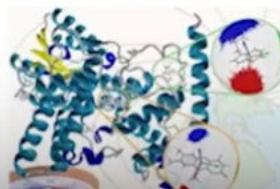


Are there common quantum strategies?

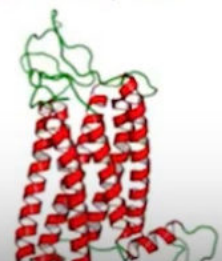
Hydride transfer in enzyme-catalyzed



Radical-pairs and magnetic sensing



Odor receptors



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