

Chemistry and Life

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ABSTRACT: The value and importance of coordination chemistry and coordinate bonds in our life and modern science is really, great and needs more focus and understanding. This would highly help and support sustainable development and environmental protection for better life. How the glycine molecule affects the production of some very important life molecules such as hemoglobin, chlorophyll and vitamin B12. The role of coordinate bond in production of what is called *Single Molecule Magnets* (SMM) which are considered as a huge revolution in information storage. *Non-Linear optics* (NLO) as new coordinate asymmetric molecules affecting the splitting of light. Finally, the use of metal coordinate compounds (Silver complexes) as very new pottant antimicrobial agents highly effective against *Diabetic Foot Ulcer*.