

Biotechnology, Bioinformatics and BIOINFORMATION in an Autobiography

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Abstract:

Science is observation. Application of Science is engineering. A 0% error is desired in Science, while a 25% error is usually allowed in Engineering. Technology is engineering with Science where the formal error rate is considerably reduced to improve precision. Biotechnology is truly interdisciplinary with an optimal mix of physics, chemistry and biology linked by mathematics. Chemistry evolved into chemical engineering and biochemistry into biochemical engineering. Biochemical engineering with genetics and molecular biology created Biotechnology. Biotechnology with computer science developed Bioinformatics. Bioinformatics used biological data to glean BIOINFORMATION for Biological Knowledge Discovery (BKD). This helped to accelerate drug discovery and develop other biologics (biomarkers, vaccines, seed developments, bio-fertilizers and bio-pesticides) towards improved service for healthcare, agriculture, food production, food processing and food distribution across international borders as per demand supply in the supply chain. It is joyful to realize the personal experience with the multifaceted features of Biotechnology, Bioinformatics and Bioinformation in a comprehensive manner over a period of four to five decades. This educational path is truly exciting, engaging and enterprising.

Keywords: Biotechnology, Bioinformatics and Bioinformation, Teaching, Research, Farming, Editing, Enzymes, Lipase, cry toxins, HLA typing, PPI, Epitope design, Genome analysis, Exons, Introns, Gene fusion, Books, Journalism, Social Responsibility, Business, Meetings, Conferences, Academic Freedom, Peers, Students, Scientists, AFP, Citations, h Index, Research Impact

Early days:

PROOF

Interest in Science:

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Industrial Biotechnology:

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Bioinformatics:

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Bioinformation:

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Teaching:

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Editing:

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Books:

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Book Chapters:

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Philosophy:

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Conclusion:

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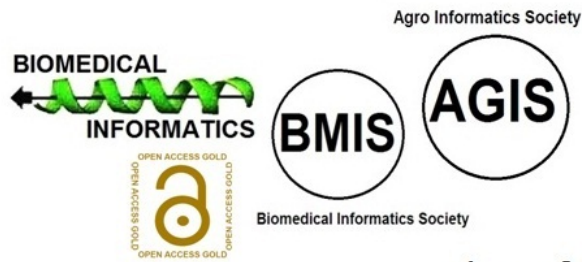
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