Big History and Biomimicry: Learning to Co-evolve with Nature

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The objective of this paper is to study the co-evolutionary processes that life has developed over billions of years in the context of "Big History". The main intention is to identify their operational principles and strategies in order to learn how to co-evolve harmonically with nature. The most important observations show us that all forms of life are developing sustainable co-evolutionary strategies in nature since life's first appearance about 3,8 billion years ago. Biomimicry helps to integrate the sociosphere into the biosphere because it creates sustainable designs in economy, architecture, engineering, and so on. As result of discussions, those co-evolutionary operational principles of ecosystem cooperation must be bio-mimetically copied, emulated, and improved to reduce ecological footprint. In conclusion, biomimicry finds in Big History a perfect theoretical model to understand how humanity must co-evolve in harmony with nature.