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THE HARNESSING OF STOCHASTICITY BY LIVING ORGANISMS

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ABSTRACT

Standard biology represents organisms as experiencing random changes, but stops short of realising that chance variations can be used as well as experienced. The immune system does this all the time in generating new DNA sequences when it needs to find a new way to counter a novel virus or bacterium. Unicellular colonies of organisms also use this method to cope with environmental stress.

We have proposed in recent articles [1] that the harnessing of stochasticity has many implications in understanding how organisms behave and are creative.

Keywords: stochasticity, hypermutation, harnessing of chance, organisms as agents

Reference:

[1] R. Noble and D. Noble, "The Harnessing of Stochasticity: Physiological and philosophical consequences," October 2020. https://www.denisnoble.com/wp-content/uploads/2021/01/Harnessing-Collection.pdf

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