

The Prediction of Evolutionary Process of Coloured Vision in Mammals: A System Biology Approach

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Abstract : Since the time of Darwin, it has been considered that genetic change is the direct indicator of variation in phenotype. But a few studies in system biology in the past years have proposed that epigenetic developmental processes also affect the phenotype thus shifting the focus from a linear genotype-phenotype map to a non-linear G-P map. In this paper, we attempt at explaining the evolution of colour vision in mammals by taking LWS/ Long-wave sensitive gene under consideration.

Keywords : evolution, phenotypes, epigenetics, LWS gene, G-P map

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