

Self-Organization of Complex Systems

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Michael Ragland wrote:-

>... "No "adaptive"-genetic
> mechanism has been proposed to account simultaneously both for the
> plasticity and rigidity of canalization. What exactly is the plasticity
> of the so-called "adaptive" genetic canalization. What exactly is the
> rigidity of the so-called "adaptive genetic canalization?"

JE:-

The "rigidity of the so-called "adaptive" genetic canalization" is via genuine genetic epistasis. Real epistasis only constitutes non additive genetic associations. However population genetics restricts what is "heritable" and thus "selectable" to only additive gene associations. In their view something can be "inherited" but not "heritable". Only things that they regard as "heritable" become "selectable". Thus population genetics places Darwinism and Darwinian fitness in a straight jacket via oversimplified model misuse.

The standard population genetic view as defined by Fisher and Haldane has been refuted by the human genome project because millions of human phenotypes remain selectable via only 30,000 or so genes. The only possible way this can be explained is to allow non additive (genuine epistatic) traits to be regarded as "heritable" and thus, "selectable".

C. H. Waddington's revision of Fisher and Haldane's basic population genetic equations to include the variable "developed in x" implying the heritability of genuine epistatic traits lies waiting like a time bomb to explode population genetics misuse. I would like to thank Prof. Felsenstein (who was a student of Waddington) for providing a reference for Waddington's Revision some time ago. However, Prof. Felsenstein refuses to discuss the implications

of Waddington's revision. Not a single population geneticist that posts here will discuss Waddington's revision and to my knowledge no population geneticist has referenced this revision over the last 50 years.

Regards,

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