



- 2 organisms open system, - characteristics of life & life activity
- 3 Renew vitalism - all phenomena explained in chemical or physical terms, but not self-awareness
- 13 natural selection acts on mutation - mutation itself = random or not specifically adapted to needs
- 14 Haldane, Fisher etc. claim that mutations, hoped to explain progress - Result to pure selection. Those with most offspring make the greatest hereditary contribution to next generation.
- 15 New Lamarckism: when animal confronted with new challenges it will develop ~~of~~ organs to ~~help~~ perform the required.
- 7/18 Dobzhanski: Selection & social mobility, *Mankind Evolving* 1962 p 249
18. Existing social stratification reflects native abilities. (Darlington)
20. Idea of emergence.
22. Peacock: physics & chemistry ^{alone} can not account for ~~machine~~ but structure
23. Physiology: operational principles relying on the laws of physics & chemistry did control the parts in which these principles are embodied. Hence physiology can not be accounted for by the laws of physics & chemistry (like medicine)



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12/89 favorable to Lorenz Kestin

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