

coreBio II - genetics: Friday 19 Jan. 2018





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PLoS Comput Biol. 2012;8(12):e1002822. doi: 10.1371/journal.pcbi.1002822. Epub 2012 Dec 27.

## Chapter 11: Genome-wide association studies.

Bush WS<sup>1</sup>, Moore JH.

+ Author information

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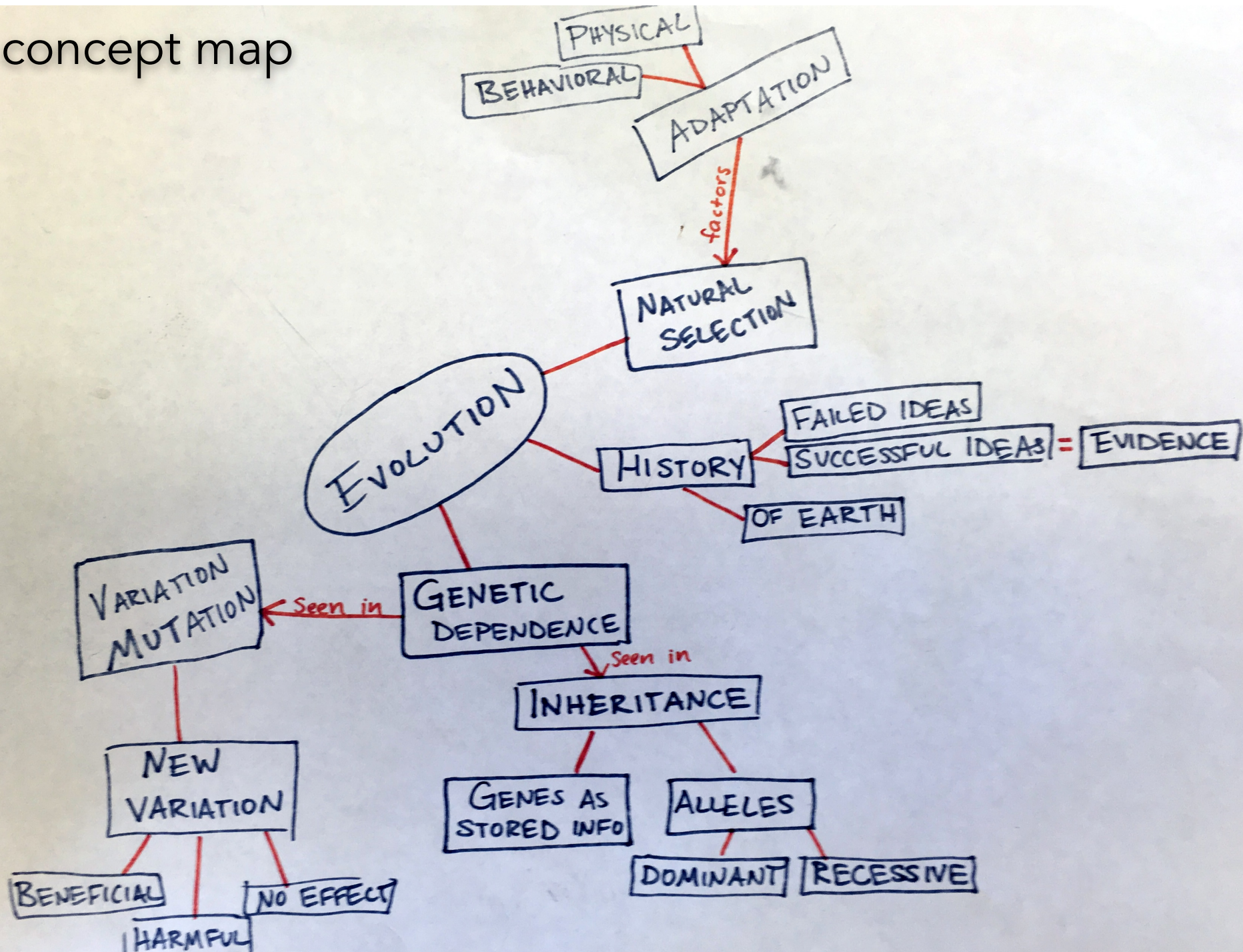
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# Genetics and Genomics time-line



# concept map



Darwin + Mendel + Garrod

Evolution: what does it explain, how does it work?

# Darwin + Mendel + Garrod

Mendel: what were the key observations?

what do they explain? what don't they explain?



# Garrod:

## Genetics and Genomics Timeline

# 1908

Archibald E. Garrod (1857-1936) postulates that genetic defects cause many inherited diseases

In 1896, Archibald E. Garrod became interested in patients with a rare but rather harmless disorder known as alkaptonuria. When exposed to air, patients' urine turns distinctively dark. Garrod soon concluded that alkaptonuria is a congenital disorder, not the result of a bacterial infection as was commonly thought. Rare in the general population but frequent in children of first-cousin marriages, the incidence of alkaptonuria conformed to the pattern of recessive inheritance described by Gregor Mendel in his experiments with peas.



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## On-line Mendelian inheritance in man

examples: gluten / lactose