

10.3 Gene Pools & Speciation

Gene Pools

Define gene pool

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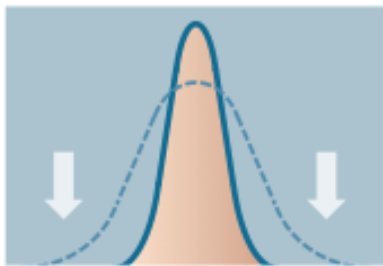
Outline a factor that influences genetic drift and identify two conditions by which this factor may occur

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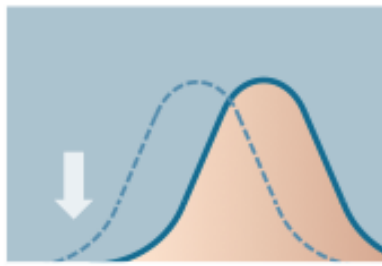
1.

2.

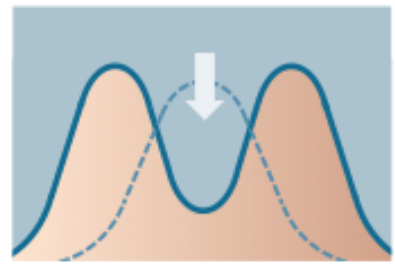
Compare the different types of selection



Stabilising Selection



Directional Selection



Disruptive Selection

Stabilising Selection

Effect:

Example:

Directional Selection

Effect:

Example:

Disruptive Selection

Effect:

Example:

Speciation

Discuss the different types of reproductive isolation

	Description	Example
Temporal
Behavioural
Geographic

Define speciation

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Distinguish between allopatric and sympatric speciation

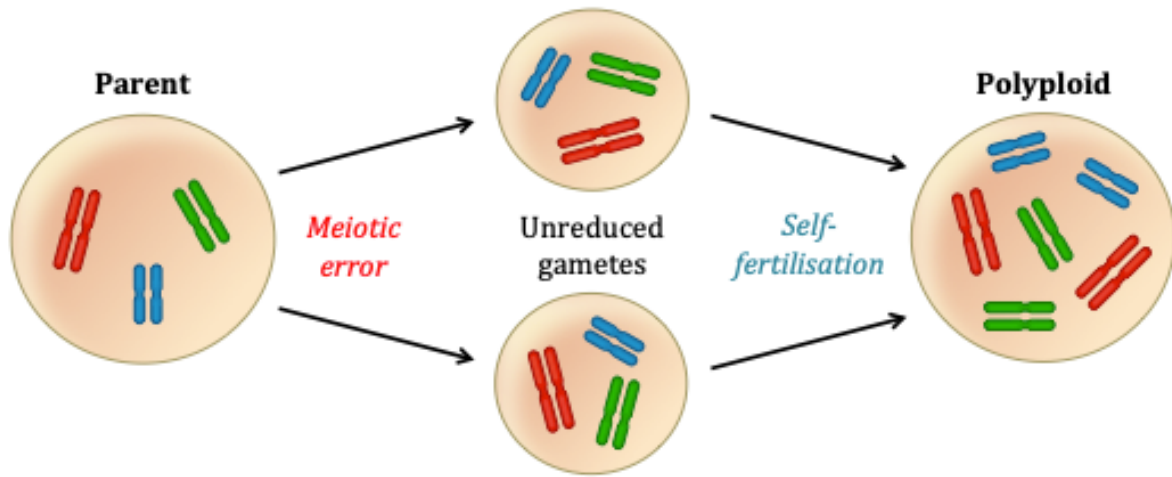
Allopatric

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Sympatric

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Explain, with the aid of the diagram, how polyploidy can result in a speciation event



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Distinguish between phyletic gradualism and punctuated equilibrium

Phyletic gradualism

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Punctuated equilibrium

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Compare divergent and convergent evolution

	Convergent	Divergent
Ancestral relatedness		
Evolutionary effect		
Type of adaptation		