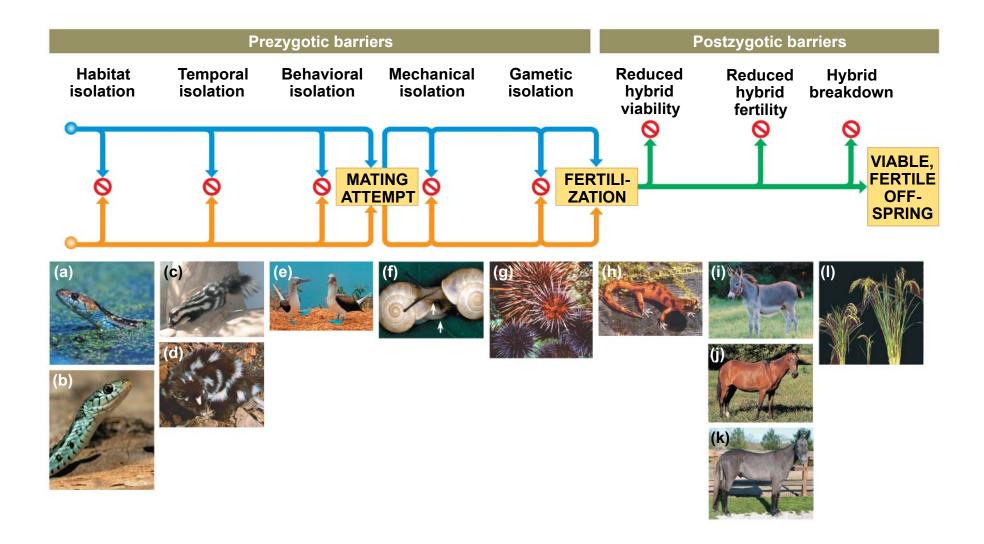
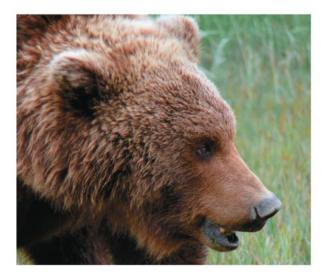


(a) Similarity between different species

(b) Diversity within a species





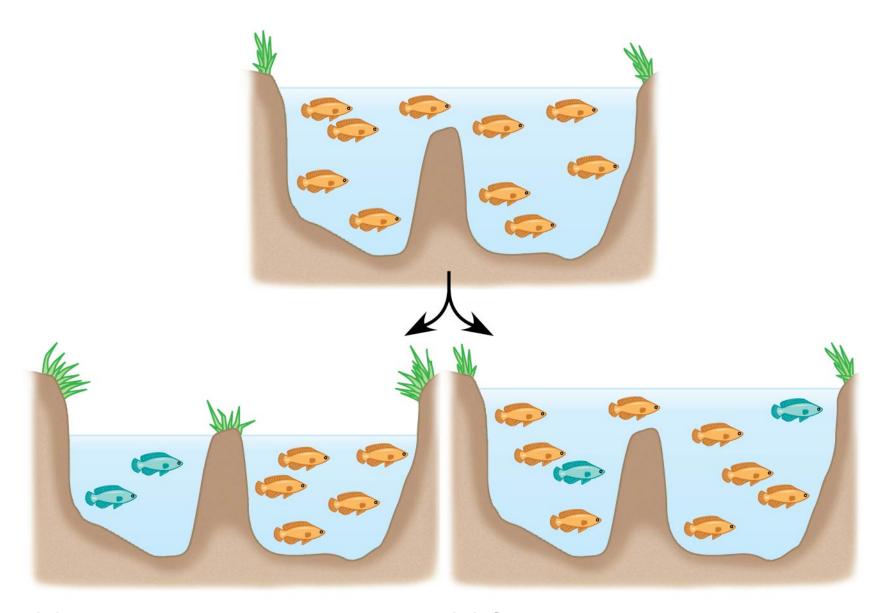
Grizzly bear (*U. arctos*)



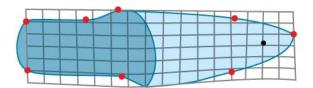
Polar bear (*U. maritimus*)

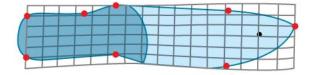


Hybrid "grolar bear"



- (a) Allopatric speciation: forms a new species while geographically isolated.
- (b) Sympatric speciation: a subset forms a new species without geographic separation.



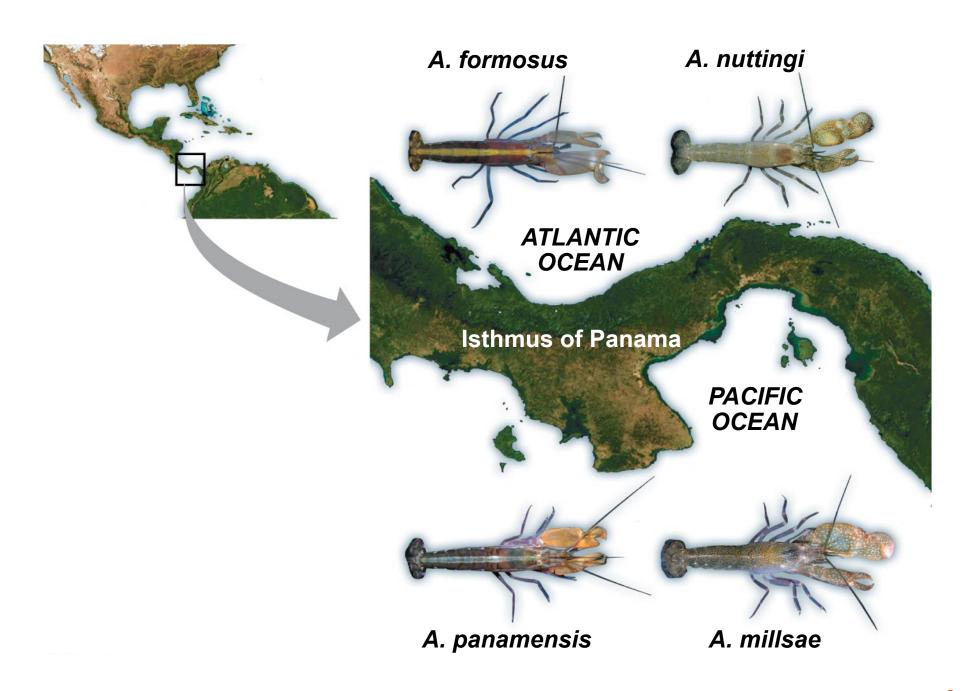


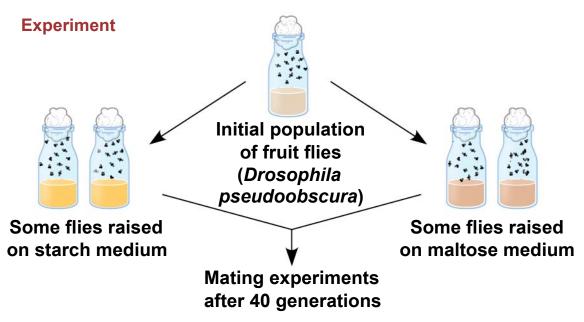




(a) Under high predation: body shape that enables rapid bursts of speed

(b) Under low predation: body shape that favors long, steady swimming





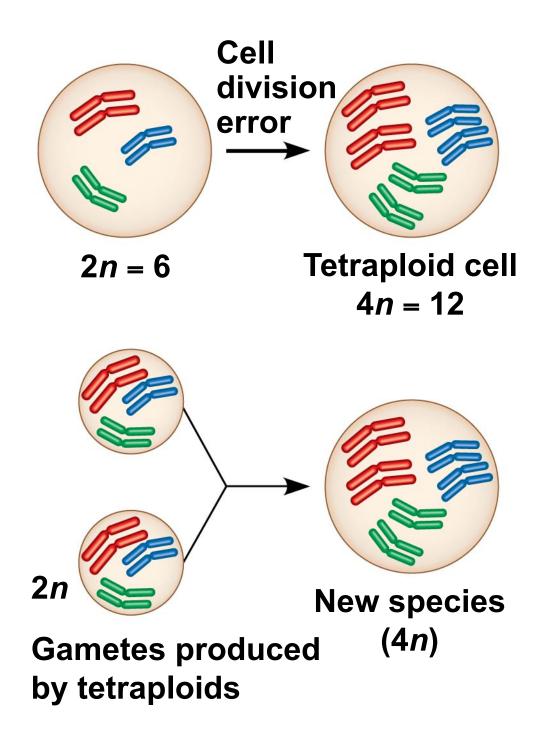
Results

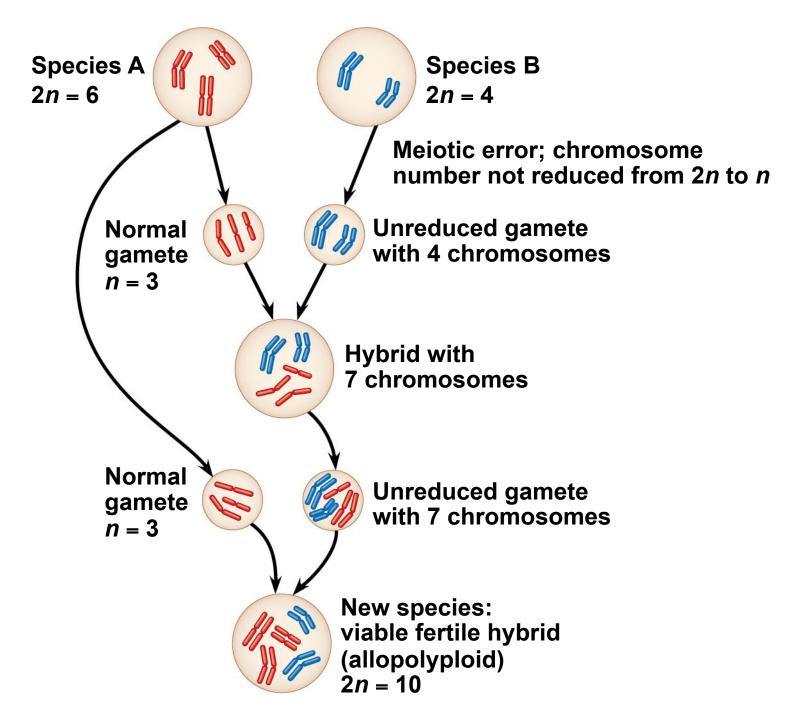
		Female	
		Starch	Maltose
Male	Starch	22	9
	Maltose	8	20

Number of matings in experimental group

		Female	
		Starch population 1	Starch population 2
Male	Starch population 1	18	15
	Starch population 2	12	15

Number of matings in control group





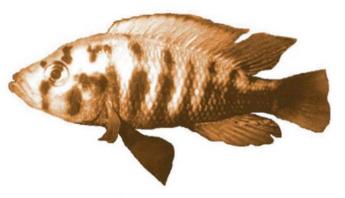
Experiment

Normal light

Monochromatic orange light

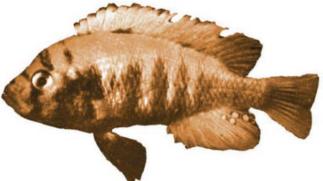
P. pundamilia

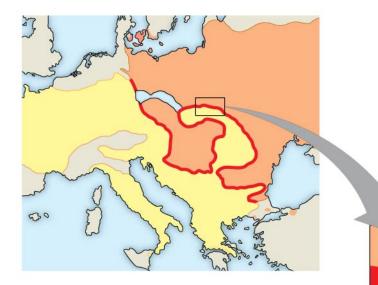




P. nyererei





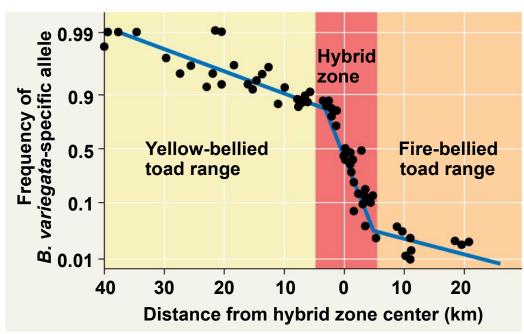




Yellow-bellied toad, *Bombina* variegata



Fire-bellied toad, *Bombina* bombina

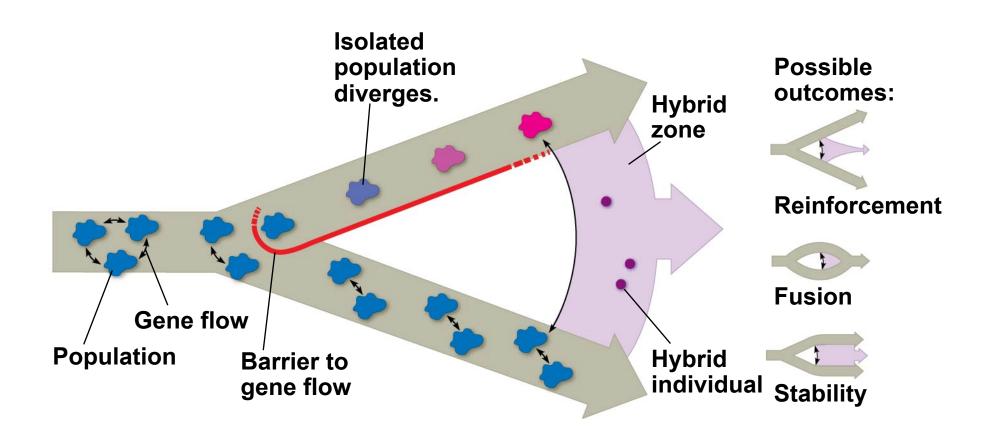


Fire-bellied

toad range

Hybrid zone

Yellow-bellied toad range





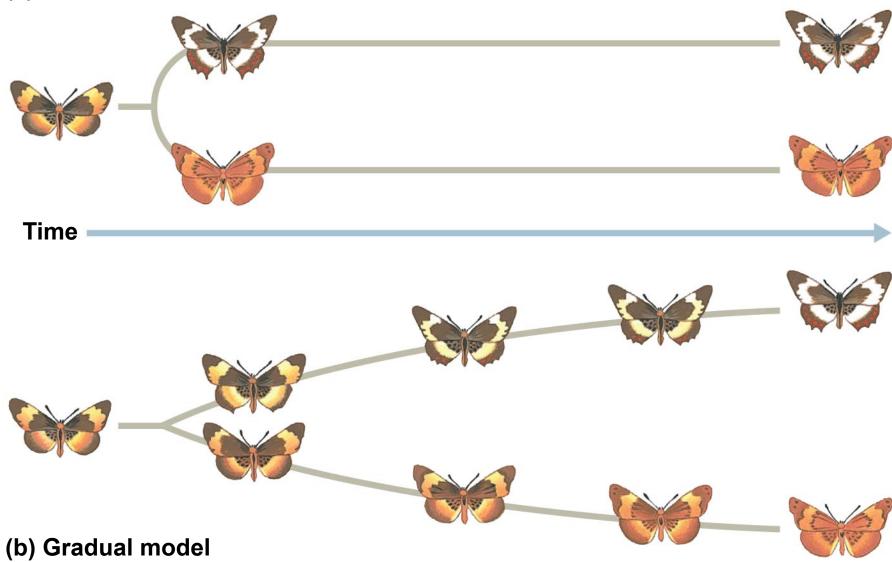
Pundamilia nyererei

Pundamilia pundamilia



Pundamilia "turbid water," hybrid offspring from a location with turbid water

(a) Punctuated model





(a) Mimulus lewisii



(b) *M. lewisii* with *M. cardinali*s allele





(c) Mimulus cardinalis (d) M. cardinalis with M. lewisii allele