| 8 23 Mut out on and Drift | O milional di |
|---------------------------|---------------|
|---------------------------|---------------|

| 3   |  |
|-----|--|
| 0   | Drift remore variation   |
| ø   | Matata adds variation at selection   |
| 0   | Let u= untation rate to round alleles  |
| - 8 | I Pr (motation at a shale gamete at a green locus)   |
| 0   | A mutation that occurs is assued to produce a unique allele.   |
|     | Ge-1 A, A, A, A, A,  |
| 1   | 6e-2 A, A, A, A, A, G, Ge-3 A,   |
|     | This assumption is called "Ithrite alleles model"  |
|     | 27) 5 ge = 3000, # 1-56p away & 3000:3 (change or michest) # 2-54ps away is 3000 x 29aq.9 (change 7 michest) = 80,973,000  |
| ė   | 2 = (1-w)2 [2n + (1- 2n) B] ] Pr(sone state   dittent origin)  |
| -   | Next gen   |
|     | No mitoria Sue state que la contrata por la contrata por contrata por la contr |
| -   |  |

Mote, U = 10-5, N is very large

So (1-u) = 1-2u and = 0

Thanks

Light = (1-2w) [in + (1-in) ]

 $A = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2} =$ 

 $(H-1)n2 + H(n2-1) = (1-\frac{1}{2}n) + 1 = H(n2-1) = H$ 

efted of effect of

When DH = 2 u (H-1) us = H (M - 1) us = H us

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· Wen mutation and drift affect, (In humas 4Nux 0.05) H & 4Nn · Buch to interplate (H-1) US + H NS- = HA Ilets lunh at this Suppose intitle populator and we have mutation -H= H+ (1-H)[1-(1-n)] In inthink pop, every priest is relative, so H'= P. (purents date, by state) + P. ( ports see by stak). P. (at least we motaller) x 2 H + (1-H) (1- (1-2m) ~ H + Zu(1-74) 14-1125 = HA C= YNU & S HY EO dott domaiting