

# COMPARATIVE SEQUENCING OF CANDIDATE GENES IN COMPLEX DISEASE

## Errata

### Chapter 2

#### 2.1 Single Nucleotide Polymorphisms

##### 2.1.1 Classification

Paragraph 1

...A-C, C-G and A-T “transitions”  
...A-C, C-G and A-T “transversions”

##### 2.1.2 SNP discovery

Paragraph 1

Techniques for SNP discovery can be categorized into “four” classes:  
Techniques for SNP discovery can be categorized into “three” classes:  
Item 2. Based discovery should be eliminated from list

### Chapter 3

Equation (3.2)

$S$  is the number of segregating sites

### Chapter 4

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Paragraph 6

where  $D_{max}$  is the lesser of  $P_A P_b$  or  $P_a P_B$  if  $D$  is positive or  $-P_A P_B$  or  $-P_a$  if  $D'$  is negative.  
where  $D_{max}$  is the lesser of  $P_A P_b$  or  $P_a P_B$  if  $D$  is positive or  $-P_A P_B$  or  $-P_a P_b$  if  $D$  is negative.

Equation (4.3)

$$r^2 = \frac{D^2}{\sqrt{P_A P_B P_a P_b}} \quad (1)$$

$$r^2 = \frac{D^2}{P_A P_B P_a P_b} \quad (2)$$

### Chapter 6

#### 6.2 Random Genetic Drift

Paragraph 2

$\pi$  and  $\theta_w$  and Tajimas  $D$  is expected to be zero  
 $\pi$  and  $\theta_w$  and Tajimas  $D$  is expected to be zero

### 6.3 Recombination and Gene Conversion

page 23

Paragraph 1

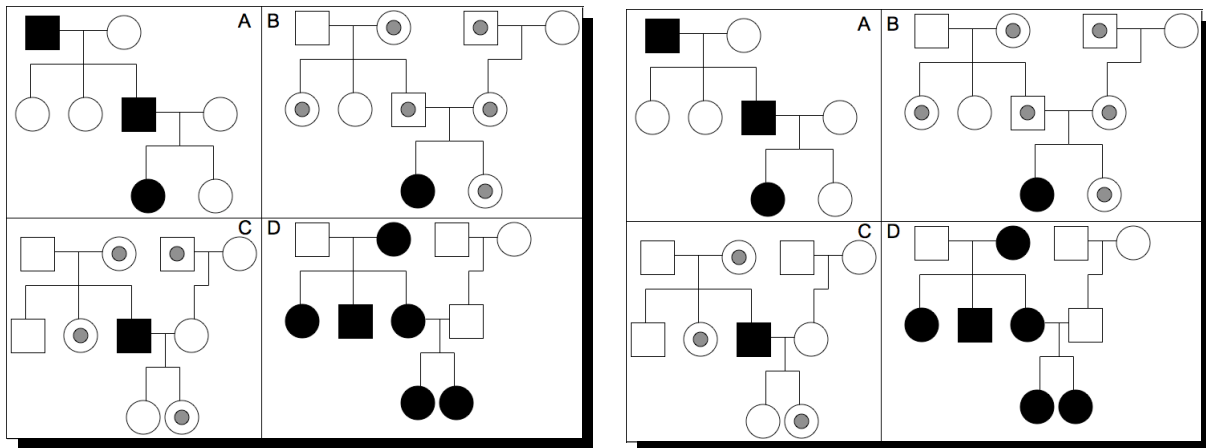
... if the distance between two sites is equal to or *smaller* than the length of the gene conversion tract.

... if the distance between two sites is equal to or *greater* than the length of the gene conversion tract

## Chapter 8

Figure 8.1

C. Male in Generation I, Pedigree II should not be a carrier of the X-linked mutation



## Chapter 13

### 13.4 Discussion

#### 13.4.1 Re-sequencing

Page 57, Paragraph 5

... individuals with *high risk* ( $H2, H5$ ) and *low risks* haplotypes ( $H1, H4$ ) .

... individuals with *low risk* ( $H2, H5$ ) and *high risks* haplotypes ( $H1, H4$ ) .

#### 13.4.2 Application of Variation in Association Studies

*IDE, KIF11, HHEX* and Alzheimer's Disease: Paper III

line11

... distribution of the *high-risk*

... distribution of the *low-risk*