

0 1 2 3 4 5 6 7 8  
X = G T T C C T A A T

Y = C G A T A A T T G A G

0 1 2 3 4 5 6 7 8 9 10

The diagram illustrates a sequence alignment between two DNA sequences, X and Y. Sequence X is 'G T T C C T A A T' with indices 0 to 8. Sequence Y is 'C G A T A A T T G A G' with indices 0 to 10. Blue arrows indicate matches between the sequences: from X[0] to Y[1], X[1] to Y[3], X[2] to Y[4], X[5] to Y[6], and X[6] to Y[7]. The matched characters (G, T, T, T, A) are highlighted in blue in the original image.