**Global Alignment**

This alignment: Or, equivalently, this:

T G A \_ T G A T T A C T G C

T T A C T G C T G A \_ T G A

It is important that the indel be placed across from the middle C of string TTACTGC in the optimal global alignment.

**Semi-Global Alignment**

You may write the semi-global alignment in either one of these ways:

This way: Or, this way:

T G A T G A (\_) T G A T G A

(T) T A C T G C (T) T A C T G C

Or, this way: Or, this way:

(T) T A C T G C (T) T A C T G C

T G A T G A (\_) T G A T G A

Note that, unlike local alignment, the parenthesized prefix or suffix of the semi-global alignment are not completely discarded even if the endgaps across it are not penalized either.

**Local Alignment**

This alignment: Or, equivalently, this:

T G A T G T A C T G

T A C T G T G A T G

In the local alignment, preferably, do not include any of the ignored prefixes or suffixes that are “discarded” by the local alignment. However, if you insist to indicate which prefixes or suffixes are discarded by the local alignment, you may indicate with parens as such:

This way: Or, this way:

T G A T G (A) (T) T A C T G (C)

(T) T A C T G (C) T G A T G (A)