



Greedy SCS on 6-mers of **a_long_long_long_time**

ng_lon _long_ a_long long_l ong_ti ong_lo long_t g_long g_time ng_tim
ng_time ng_lon **_long_** a_long long_l ong_ti ong_lo long_t **g_long**
ng_time g_long_ ng_lon a_long long_l **ong_ti** ong_lo **long_t**
ng_time long_ti g_long_ **ng_lon** a_long long_l **ong_lo**
ng_time ong_lon **long_ti** g_long_ a_long long_l
ong_lon long_time g_long_ a_long **long_l**
long_lon **long_time** g_long_ a_long
long_lon **g_long_time** a_long
long_long_time **a_long**
a_long_long_time

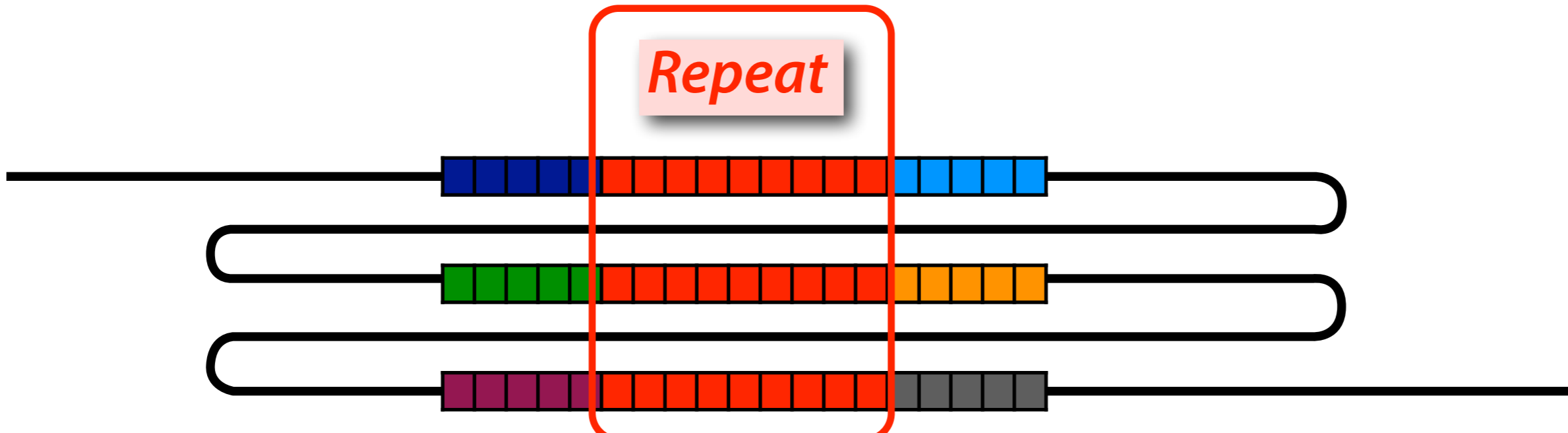
Greedy SCS on 8-mers of **a_long_long_long_time**

long_lon ng_long_ _long_lo g_long_t ong_long g_long_l ong_time a_long_l _long_ti long_tim
ong_time long_lon ng_long_ _long_lo g_long_t ong_long g_long_l a_long_l _long_ti
_long_time long_lon ng_long_ _long_lo g_long_t ong_long g_long_l a_long_l
_long_time a_long_lo long_lon ng_long_ g_long_t ong_long g_long_l
_long_time ong_long_ a_long_lo long_lon g_long_t g_long_l
g_long_time ong_long_ a_long_lo long_lon g_long_l
g_long_time ong_long_ a_long_lon g_long_l
g_long_time ong_long_l a_long_lon
g_long_time a_long_long_l
a_long_long_long_time

a_long_long_long_time

g_long_l

Repeat



← Reads must span entire repeat for unambiguous assembly

Template

TATGGCTCTAGCATAAAACC

TATGGCTCTAGCATAAAACC

Template

GCATCATTGCCAATATATGGCTCTAGCATAAAACC

GCATCATTGC Gap GCATAAAACC

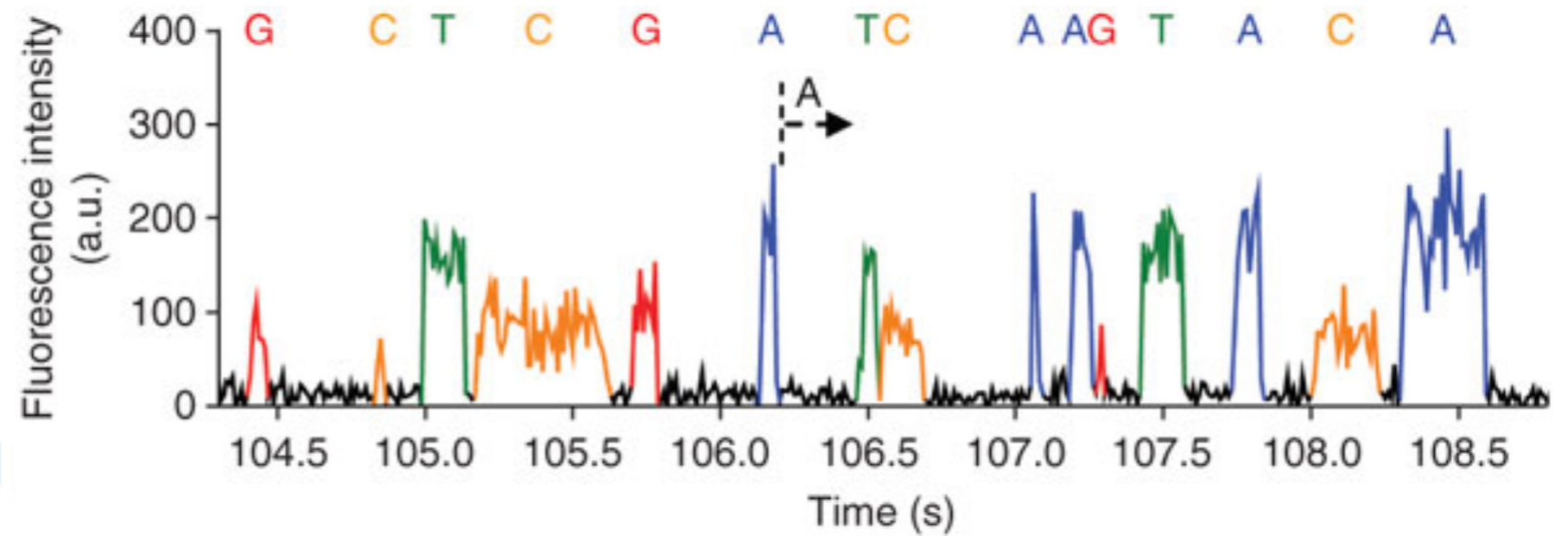
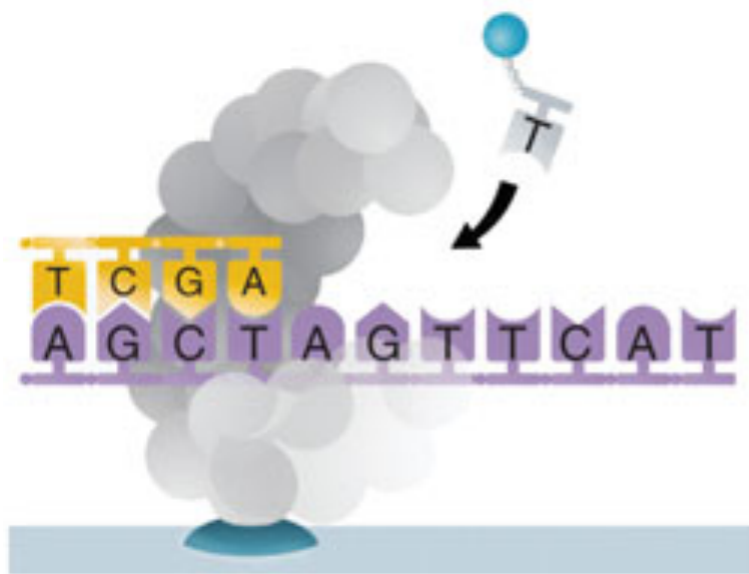


Figure from: Flusberg, Benjamin A., et al. "Direct detection of DNA methylation during single-molecule, real-time sequencing." *Nature methods* 7.6 (2010): 461-465.

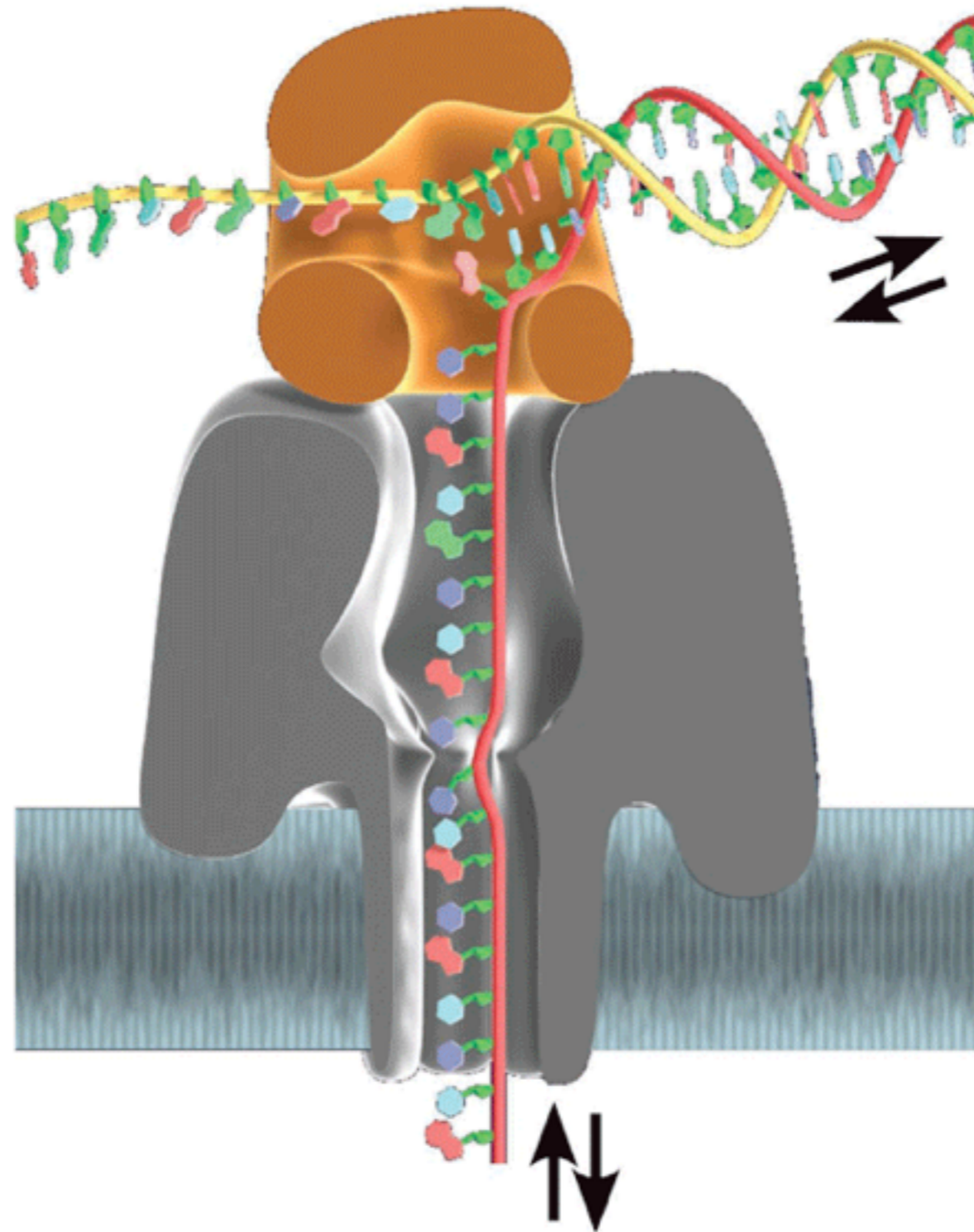


Figure from: Schneider, Grégory F., and Cees Dekker. "DNA sequencing with nanopores." *Nature biotechnology* 30.4 (2012): 326-328.