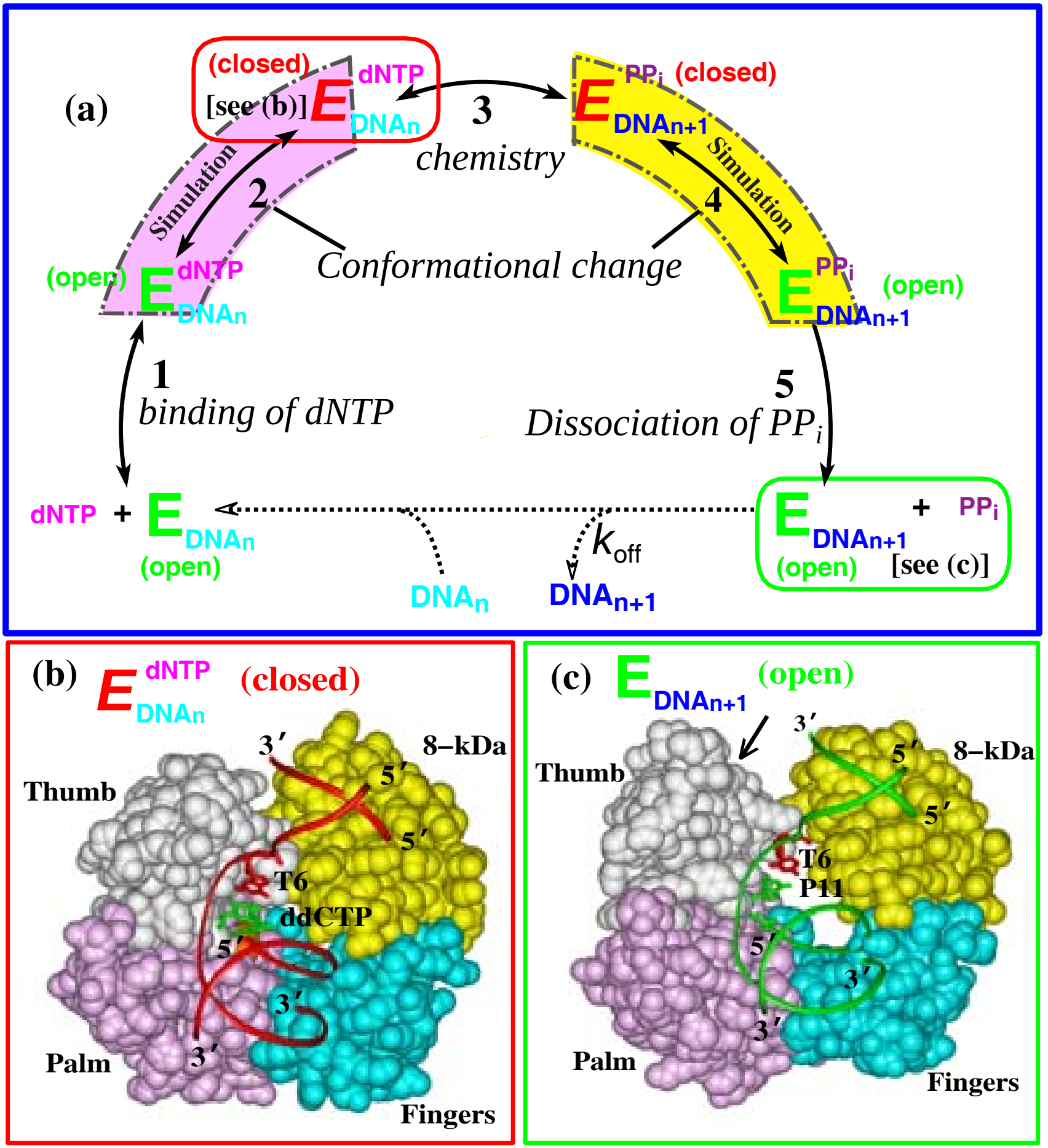
(a)
(closed)
[see (b)]
E dNTP DNAn
3
chemistry
PPi (closed)
E DNAn+1
Simulation
2
4
Simulation
Conformational change
(open)
E dNTP DNAn
E PPi DNAn+1
(open)
1
binding of dNTP
5
Dissociation of PPi
dNTP + E DNAn
(open)
DNAn
koff
DNAn+1
E DNAn+1 + PPi
(open) [see (c)]
(b)
E dNTP DNAn
(closed)
3′
8–kDa
5′
Thumb
5′
T6
ddCTP
5′
3′
3′
Palm
Fingers
(c)
E DNAn+1
(open)
3′
5′
8–kDa
Thumb
5′
T6
P11
5′
3′
3′
Palm
Fingers