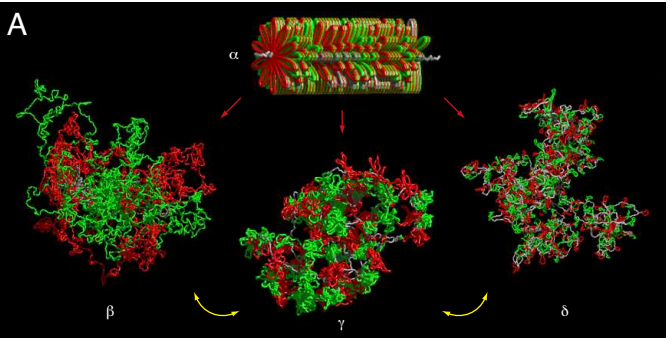
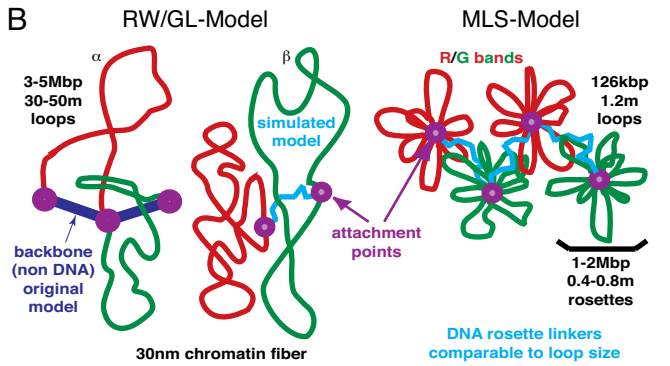
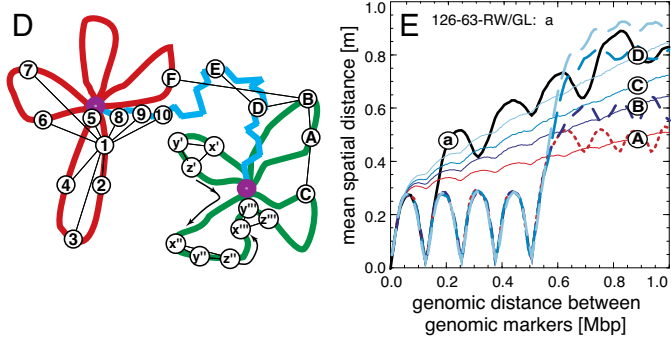
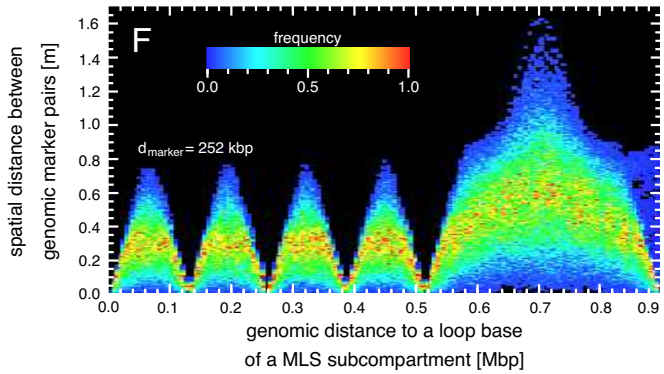
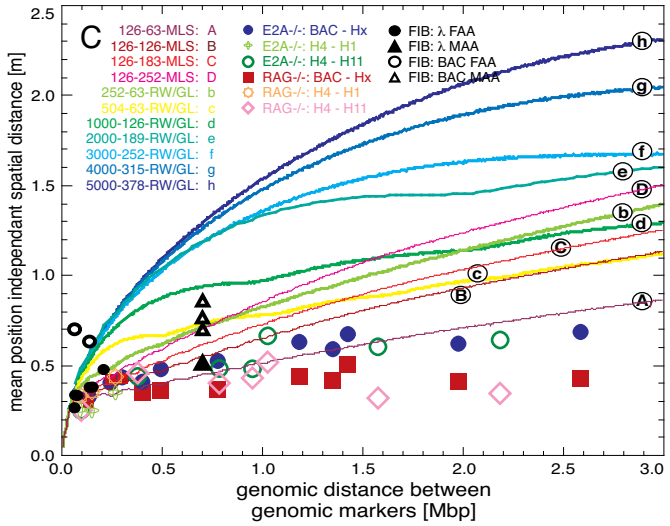
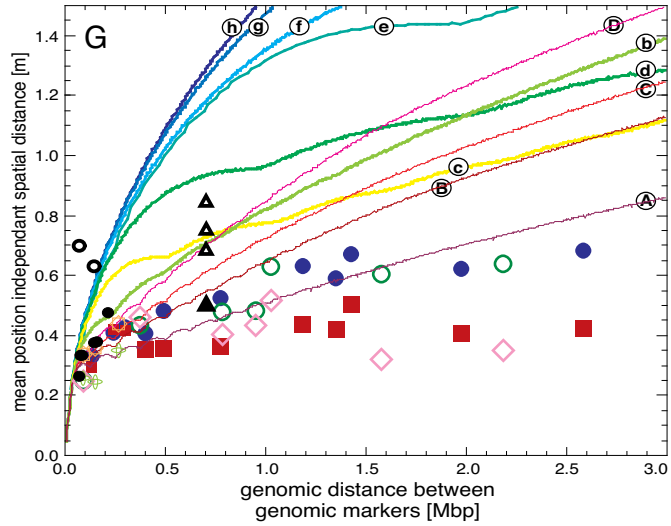

A
α
β
γ
δ


B
RW/GL-Model
MLS-Model
α
β
3-5Mbp
30-50m
loops
simulated
model
R/G bands
126kbp
1.2m
loops
backbone
(non DNA)
original
model
attachment
points
1-2Mbp
0.4-0.8m
rosettes
30nm chromatin fiber
DNA rosette linkers
comparable to loop size


D
E
126-63-RW/GL: a
mean spatial distance [m]
genomic distance between
genomic markers [Mbp]


F
frequency
d_marker = 252 kbp
spatial distance between
genomic marker pairs [m]
genomic distance to a loop base
of a MLS subcompartment [Mbp]


C
126-63-MLS: A
126-126-MLS: B
126-183-MLS: C
126-252-MLS: D
252-63-RW/GL: b
504-63-RW/GL: c
1000-126-RW/GL: d
2000-189-RW/GL: e
3000-252-RW/GL: f
4000-315-RW/GL: g
5000-378-RW/GL: h
E2A-/-: BAC - Hx
E2A-/-: H4 - H1
E2A-/-: H4 - H11
RAG-/-: BAC - Hx
RAG-/-: H4 - H1
RAG-/-: H4 - H11
FIB: λ FAA
FIB: λ MAA
FIB: BAC FAA
FIB: BAC MAA
mean position independant spatial distance [m]
genomic distance between
genomic markers [Mbp]


G
mean position independant spatial distance [m]
genomic distance between
genomic markers [Mbp]