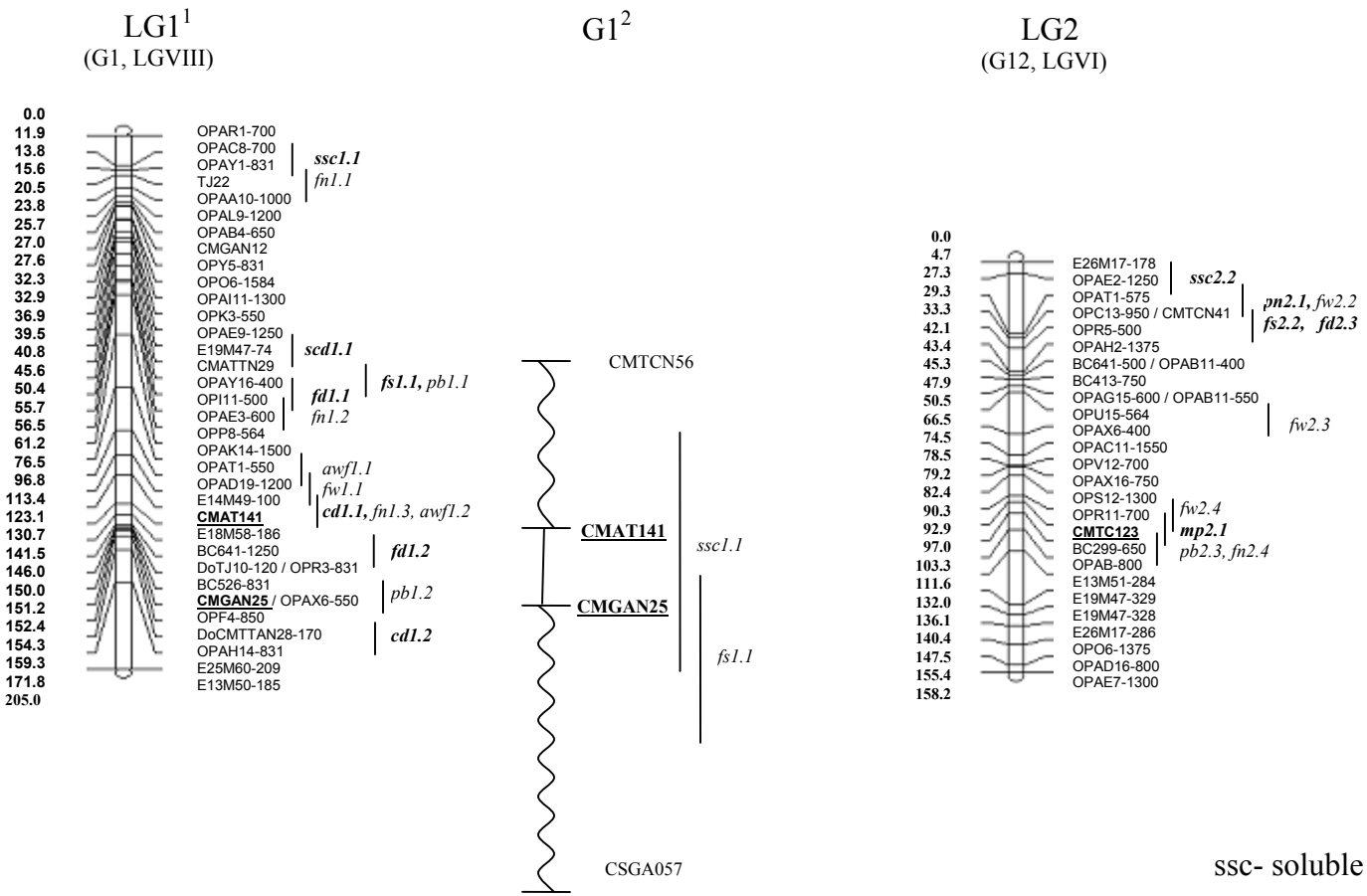
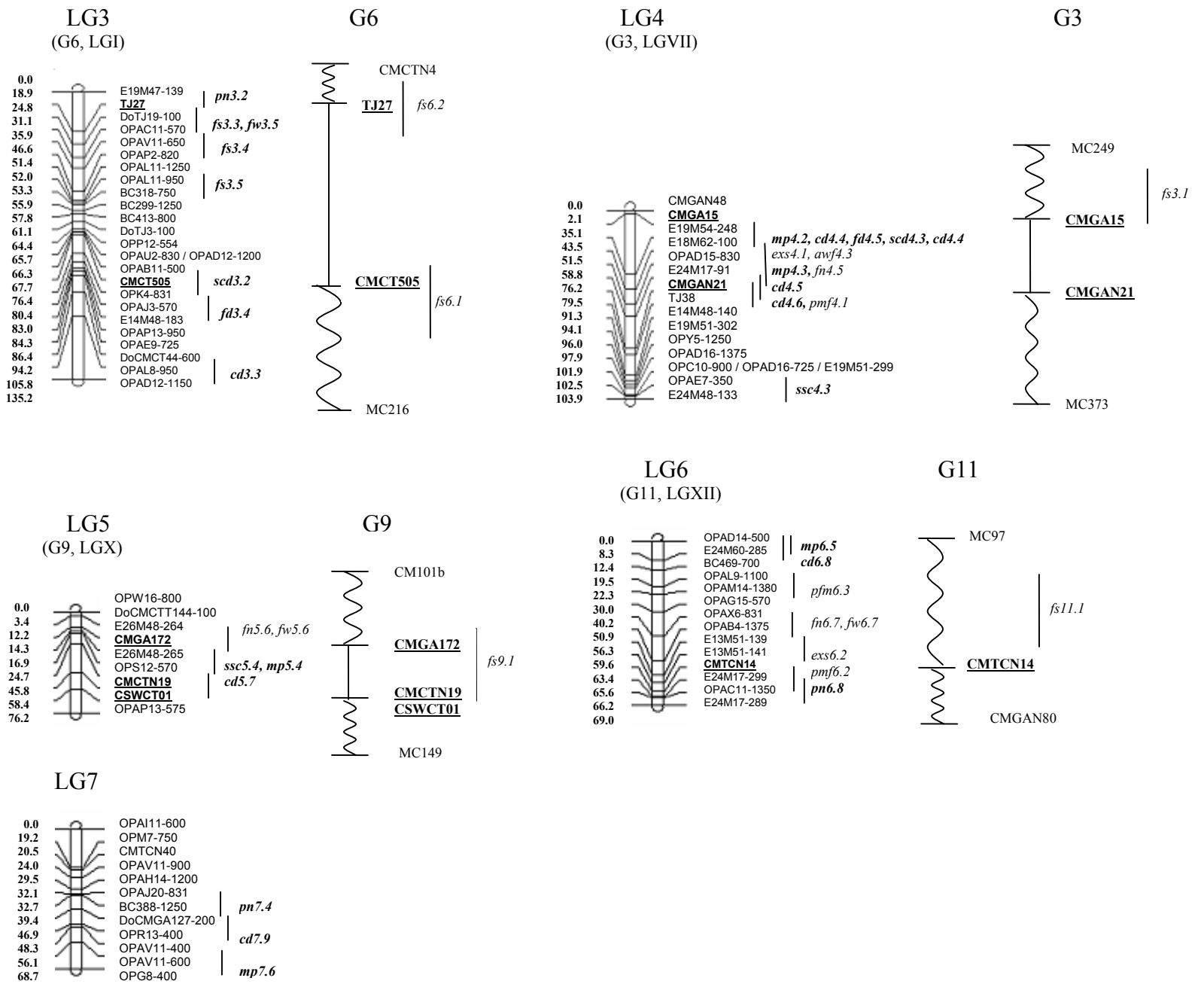
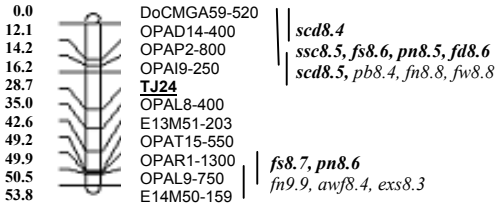
Figure 1. Linkage map[1] and locations of quantitative trait loci (QTL) associated with fruit quality components based on 81 melon (*Cucumis melo* L.) recombinant inbred lines (RIL) derived form a cross between USDA 846-1 and "Top Mark". Linkage groups are designated by numbers (1-11). Group numbers (1, 3, 5-9, 11, and 12) and roman numerals (I, II, VI-XII) correspond to linkage groups in maps by Oliver et al. (2001) and Perin et al. (2002), respectively. Co-linear groups[2] designated by Oliver et al. (2001) are illustrated parallel to anchor markers present in both maps and QTL reported by them are displayed to visualize common QTL between the maps.



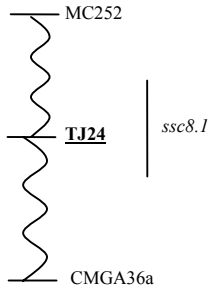
ssc- soluble solids content
mp- mesocarp pressure
fd-fruit diameter
scd- seed cavity diameter
cd- cavity: diameter ratio
fs- fruit shape
pn- percent netting
pb- primary branch
fn- fruit number
exs- sex expression
fw- fruit weight per plant
awf- average weight per fruit
pmf- percent of mature fruit per plot


LG3
(G6, LGI)
0.0
18.9
24.8
31.1
35.9
46.6
51.4
52.0
53.3
55.9
57.8
61.1
64.4
65.7
66.3
67.7
76.4
80.4
83.0
84.3
86.4
94.2
105.8
135.2
E19M47-139
TJ27
DoTJ19-100
OPAC11-570
OPAV11-650
OPAP2-820
OPAL11-1250
OPAL11-950
BC318-750
BC299-1250
BC413-800
DoTJ3-100
OPP12-554
OPAU2-830 / OPAD12-1200
OPAB11-500
CMCT505
OPK4-831
OPAJ3-570
E14M48-183
OPAP13-950
OPAE9-725
DoCMCT44-600
OPAL8-950
OPAD12-1150
pn3.2
fs3.3, fw3.5
fs3.4
fs3.5
scd3.2
fd3.4
cd3.3
G6
CMCTN4
TJ27
fs6.2
CMCT505
fs6.1
MC216
LG4
(G3, LGVII)
0.0
2.1
35.1
43.5
51.5
58.8
76.2
79.5
91.3
94.1
96.0
97.9
101.9
102.5
103.9
CMGAN48
CMGA15
E19M54-248
E18M62-100
OPAD15-830
E24M17-91
CMGAN21
TJ38
E14M48-140
E19M51-302
OPY5-1250
OPAD16-1375
OPC10-900 / OPAD16-725 / E19M51-299
OPAE7-350
E24M48-133
mp4.2, cd4.4, fd4.5, scd4.3, cd4.4
exs4.1, awf4.3
mp4.3, fn4.5
cd4.5
cd4.6, pmf4.1
ssc4.3
G3
MC249
fs3.1
CMGA15
CMGAN21
MC373
LG5
(G9, LGX)
0.0
3.4
12.2
14.3
16.9
24.7
45.8
58.4
76.2
OPW16-800
DoCMCTT144-100
E26M48-264
CMGA172
E26M48-265
OPS12-570
CMCTN19
CSWCT01
OPAP13-575
fn5.6, fw5.6
ssc5.4, mp5.4
cd5.7
G9
CM101b
CMGA172
fs9.1
CMCTN19
CSWCT01
MC149
LG6
(G11, LGXII)
0.0
8.3
12.4
19.5
22.3
30.0
40.2
50.9
56.3
59.6
63.4
65.6
66.2
69.0
OPAD14-500
E24M60-285
BC469-700
OPAL9-1100
OPAM14-1380
OPAG15-570
OPAX6-831
OPAB4-1375
E13M51-139
E13M51-141
CMTCN14
E24M17-299
OPAC11-1350
E24M17-289
mp6.5
cd6.8
pfm6.3
fn6.7, fw6.7
exs6.2
pmf6.2
pn6.8
G11
MC97
fs11.1
CMTCN14
CMGAN80
LG7
0.0
19.2
20.5
24.0
29.5
32.1
32.7
39.4
46.9
48.3
56.1
68.7
OPAI11-600
OPM7-750
CMTCN40
OPAV11-900
OPAH14-1200
OPAJ20-831
BC388-1250
DoCMGA127-200
OPR13-400
OPAV11-400
OPAV11-600
OPG8-400
pn7.4
cd7.9
mp7.6

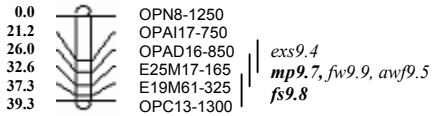
LG8
(G8, LGII)



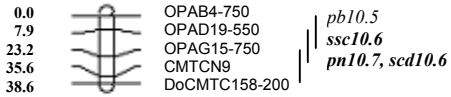
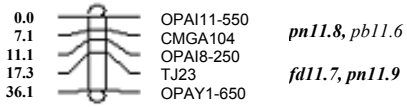
G8



LG9



LG10



LG11