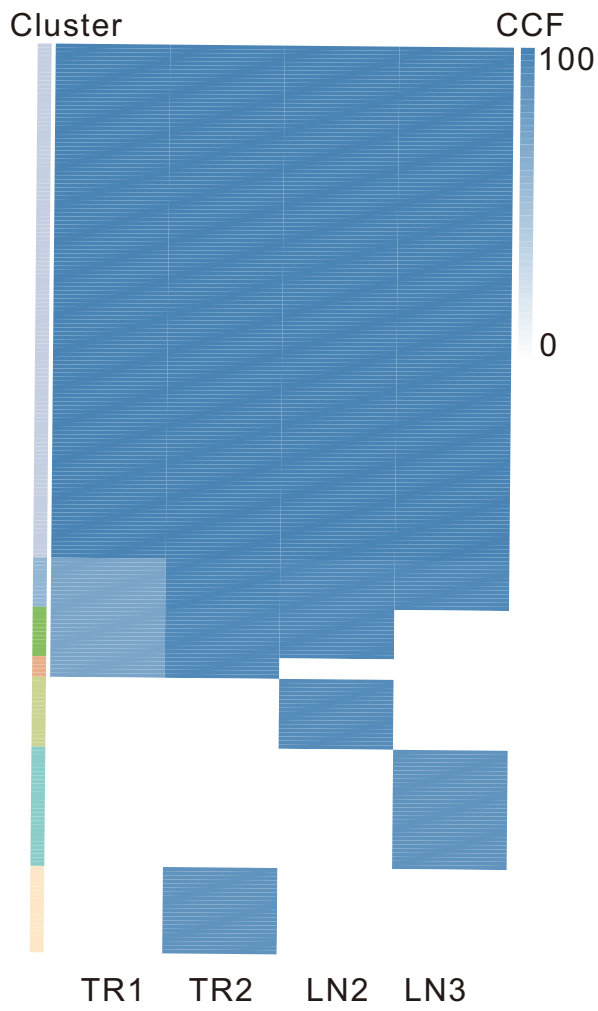


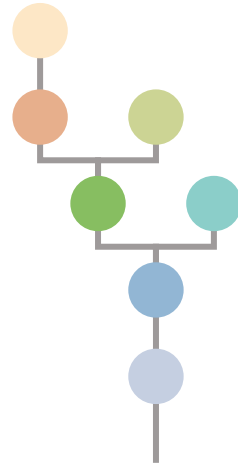
Supplemental Data 1

Supplemental Data 1. Phylogenetic trees, Related to Figure 2.

Phylogenetic trees for 62 non-hypermutated CRC tumors. For each multi-panel figure, top-left panel showed cancer cell fractions (CCF) as a heatmap for all clustered mutations. CCF value for each mutation represents the mean of the mutation cluster CCF values, with darker color indicating higher CCF value. Regions were indicated below heatmap, “TR” represented primary tumor regions, “LN” represented lymph node metastasis regions and “LN_ENTD” represented extranodal tumour deposits regions. Middle top panel showed the complete phylogenetic tree as constructed based on the mutation clusters. Cancer driver genes found in the tumor, with cytoband, type [mutation (SNV and InDel)/ copy number aberration (Amp and Del)] and mutation cluster were indicated on the right, with a colored bar representing individual clusters of driver genes. Below were phylogenetic trees drawn for each region. Grid of 100 representative cells were shown beneath the tree. The colors within each cell represented the mutational clusters. The color of each cell was determined by the color of the “latest cluster” in this cell. Each cell contains mutations in all the clusters along the path from the “ancestor cluster” to the cluster represented by the color of this cell.

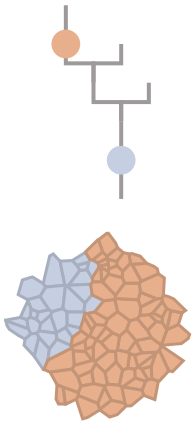


CRC01

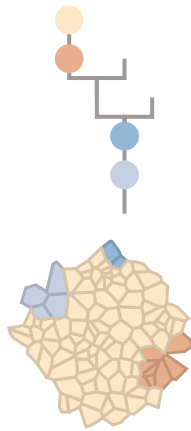


Gene	Cytoband	Type	Cluster
<i>TP53</i>	17p13.1	SNV	1
<i>MUC4</i>	3q29	Amp	1
<i>BCL9</i>	1q21.2	Amp	4
<i>TCF3</i>	19p13.3	Del	4
<i>B2M</i>	15q21.1	InDel	7
<i>STK11</i>	19p13.3	Del	NA

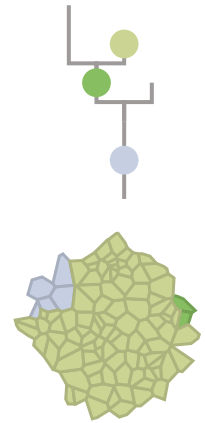
TR1



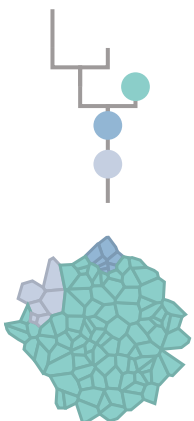
TR2



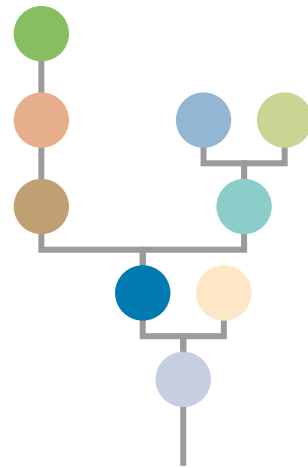
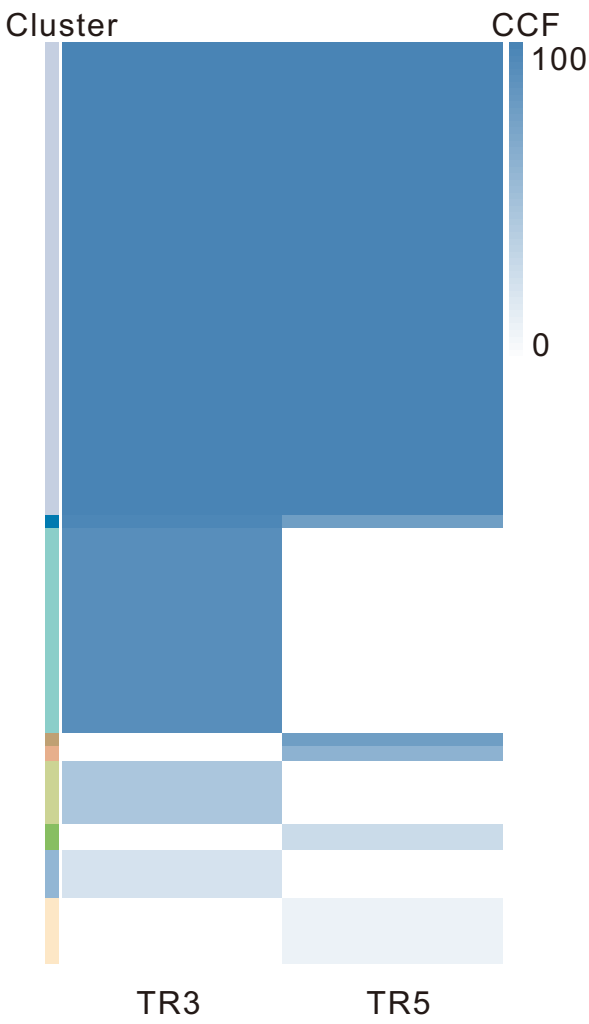
LN2



LN3

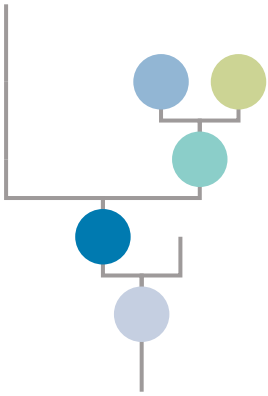


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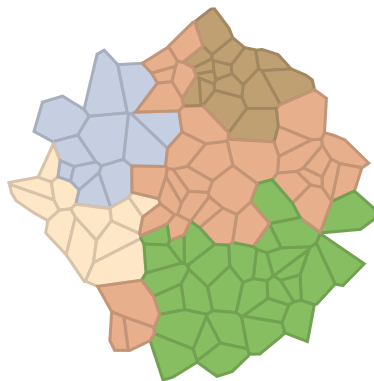
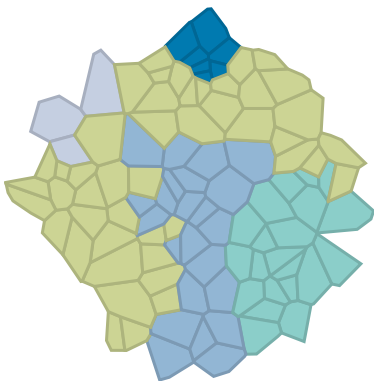
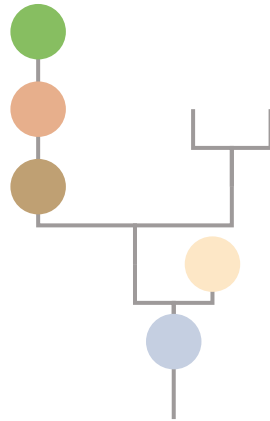


Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
CUX1	7q22.1	SNV	1
TP53	17p13.1	SNV	1
* APC	5q22.2	InDel	1
FGFR1	8p11.23	Amp	1
CDKN2A	9p21.3	Del	1
AMER1	Xq11.2	SNV	NA
ATRX	Xq21.1	SNV	NA

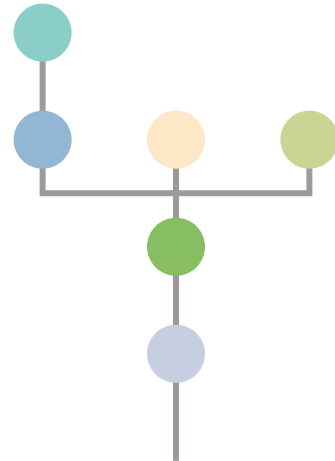
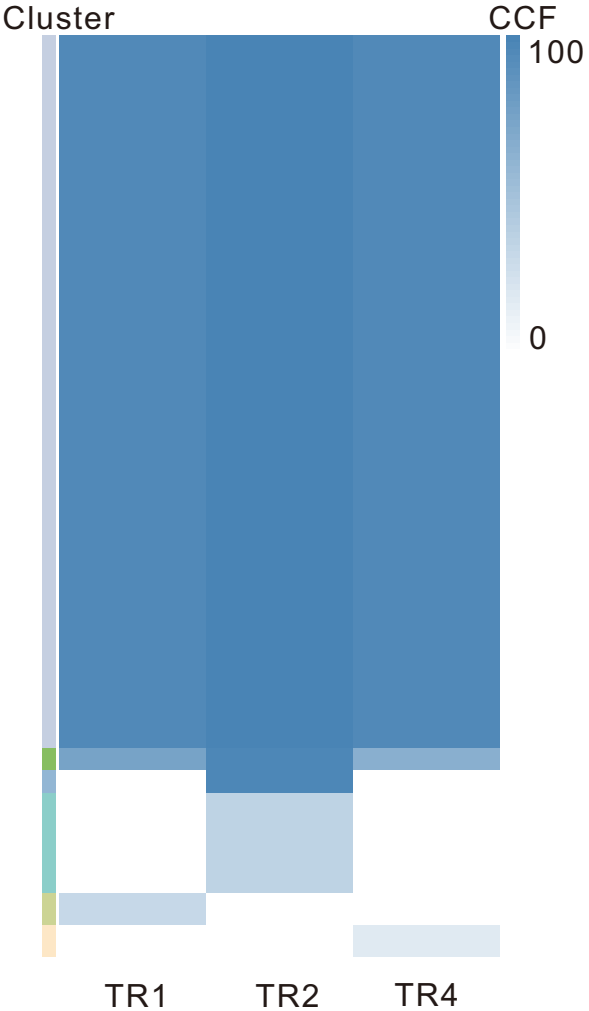
TR3



TR5

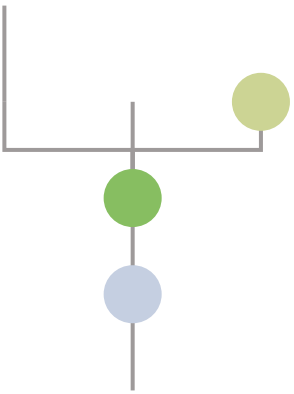


CRC03

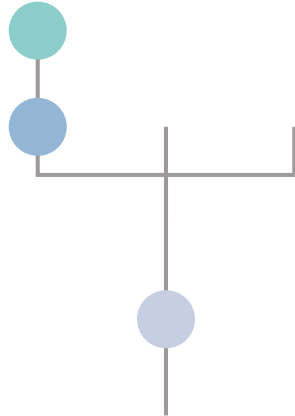


Gene	Cytoband	Type	Cluster
<i>APC</i>	5q22.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>ETV6</i>	12p13.2	SNV	1
<i>CSF3R</i>	1p34.3	InDel	6
<i>AMER1</i>	Xq11.2	SNV	NA
<i>PTEN</i>	10q23.31	Del	NA

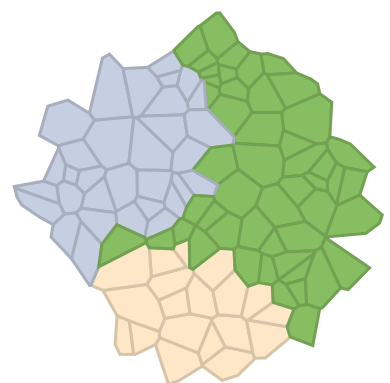
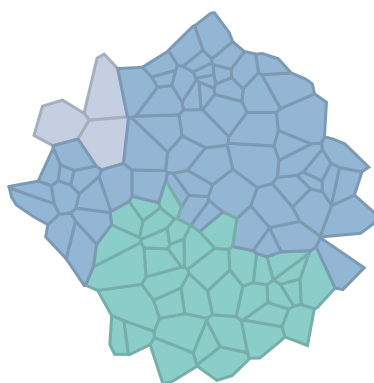
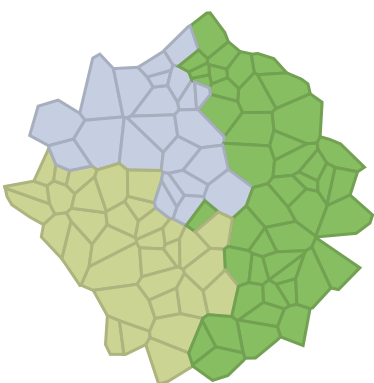
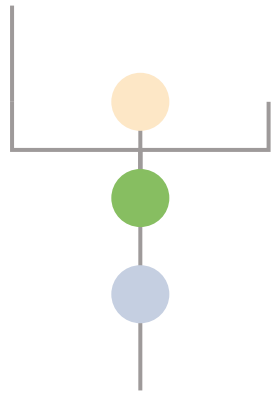
TR1

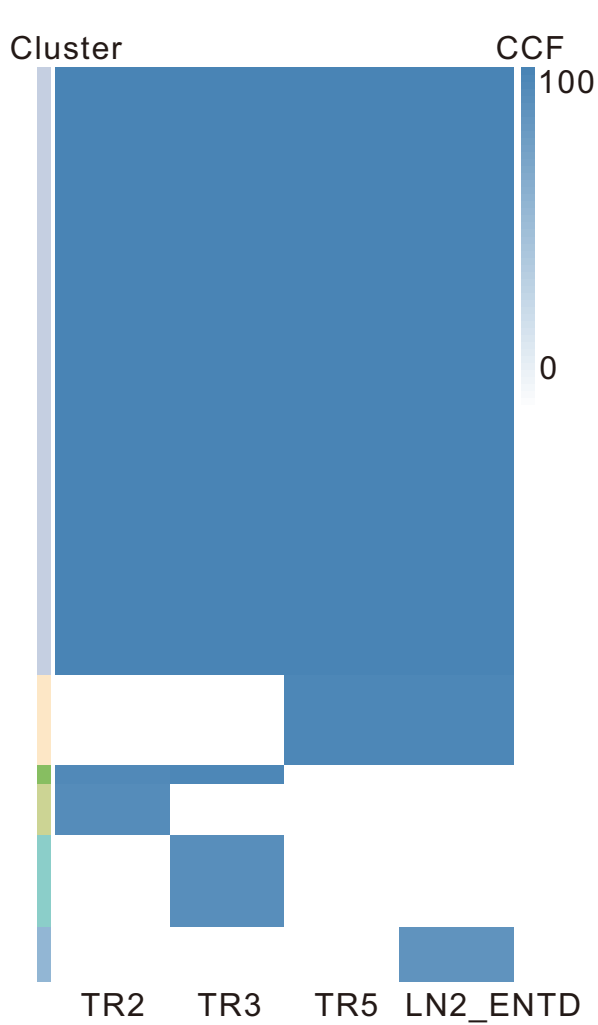


TR2

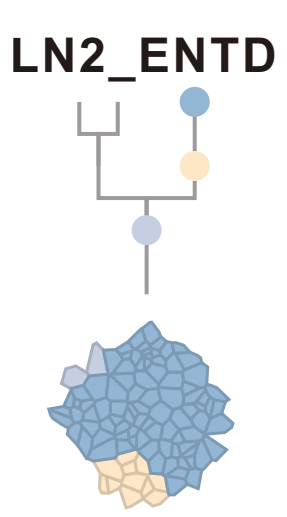
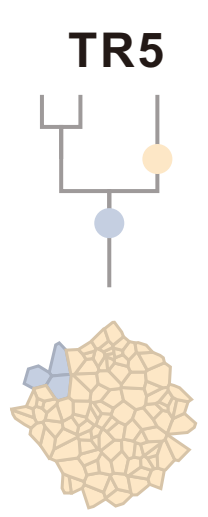
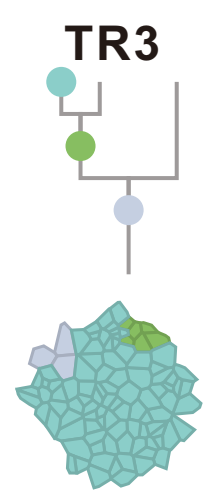
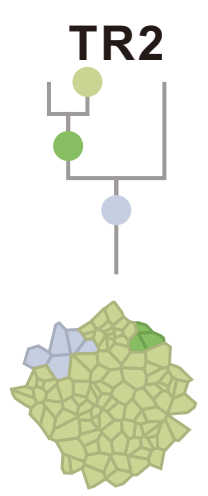
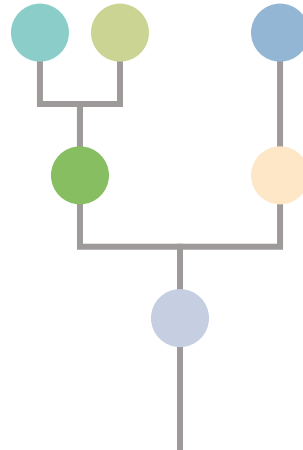


TR4





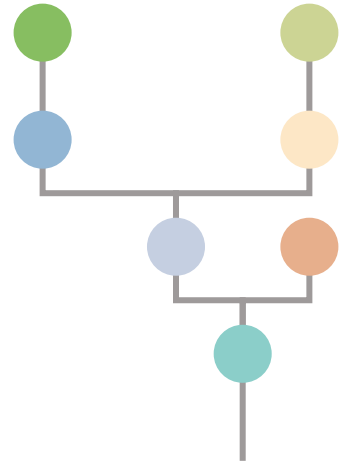
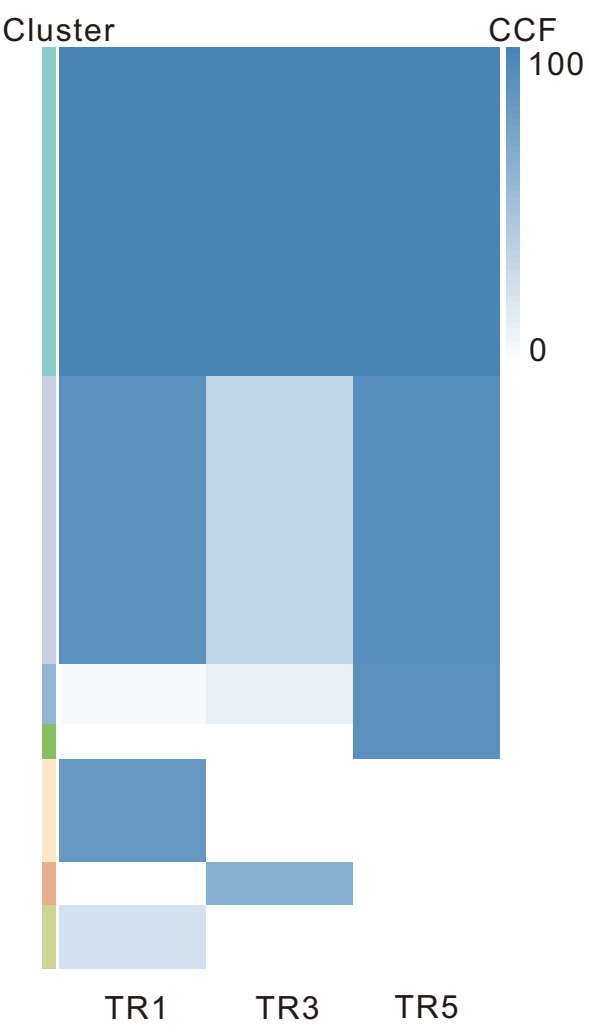
CRC06



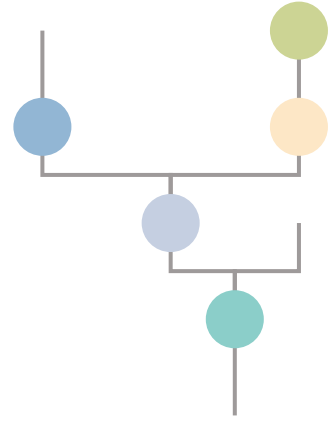
Gene	Cytoband	Type	Cluster
*PIK3CA	3q26.32	SNV	1
*PIK3CA	3q26.32	SNV	1
KRAS	12p12.1	SNV	1
ERCC2	19q13.32	SNV	1
APC	5q22.2	InDel	1
SSX2	Xp11.22	Amp	1
ARAF	Xp11.23	Amp	1
GATA1	Xp11.23	Amp	1
SSX1	Xp11.23	Amp	1
SSX4	Xp11.23	Amp	1
TFE3	Xp11.23	Amp	1
WAS	Xp11.23	Amp	1
KDM6A	Xp11.3	Amp	1
FOXO4	Xq13.1	Amp	1
BTK	Xq22.1	Amp	1
IRS4	Xq22.3	Amp	1
BCORL1	Xq26.1	Amp	1
ELF4	Xq26.1	Amp	1
GPC3	Xq26.2	Amp	1
CAMTA1	1p36.31	Del	1
RPL22	1p36.31	Del	1
TNFRSF14	1p36.32	Del	1
NOTCH1	9q34.3	Del	1
AXIN1	16p13.3	Del	1
CREBBP	16p13.3	Del	1
NTHL1	16p13.3	Del	1
TRAF7	16p13.3	Del	1
TSC2	16p13.3	Del	1
FLCN	17p11.2	Del	1
NCOR1	17p11.2	Del	1
MAP2K4	17p12	Del	1
PER1	17p13.1	Del	1
TP53	17p13.1	Del	1
YWHAE	17p13.3	Del	1
SMAD4	18q21.2	InDel	3
CARS	11p15.4	Del	3
NOTCH2	1p12	Amp	4
ARNT	1q21.3	Amp	4
SETDB1	1q21.3	Amp	4
STK11	19p13.3	Del	5
TCF3	19p13.3	Del	5
SDHA	5p15.33	Del	5
TERT	5p15.33	Del	5
TP53	17p13.1	SNV	NA

CRC07

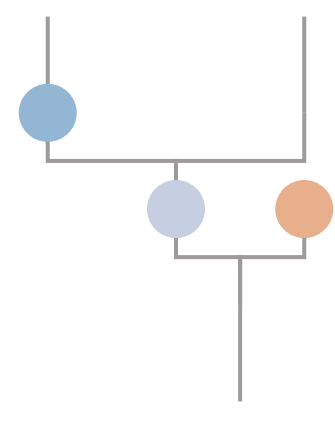
Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
TBL1XR1	3q26.32	SNV	2
KRAS	12p12.1	SNV	2
TP53	17p13.1	SNV	2
* APC	5q22.2	InDel	2
RUNX1	21q22.12	Del	2
CLTCL1	22q11.21	Del	2
LZTR1	22q11.21	Del	2
SMARCB1	22q11.23	Del	2
CHEK2	22q12.1	Del	2
ZNRF3	22q12.1	Del	2
NF2	22q12.2	Del	2
MYH9	22q12.3	Del	2
APOBEC3B	22q13.1	Del	2
EP300	22q13.2	Del	2
MKL1	22q13.2	Del	2
FOXO4	Xq13.1	Del	2
MED12	Xq13.1	Del	2
ZMYM3	Xq13.1	Del	2
ATRX	Xq21.1	Del	2
BTK	Xq22.1	Del	2
IRS4	Xq22.3	Del	2
STAG2	Xq25	Del	2
BCORL1	Xq26.1	Del	2
ELF4	Xq26.1	Del	2
GPC3	Xq26.2	Del	2
PHF6	Xq26.2	Del	2
ATP2B3	Xq28	Del	2
RPL10	Xq28	Del	2
ERBB4	2q34	SNV	3
RNF43	17q22	SNV	4
ATP1A1	1p13.1	Amp	5
MUC4	3q29	Amp	5
SIRPA	20p13	Del	7
ASXL1	20q11.21	Del	7
PTPRT	20q13.11	Del	7
PTK6	20q13.33	Del	7



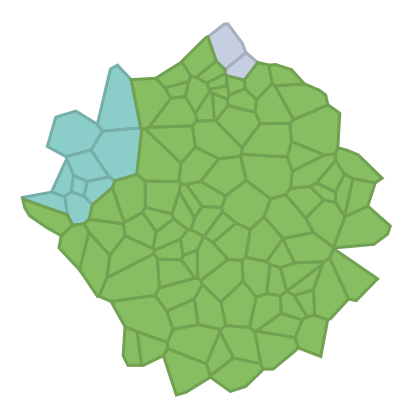
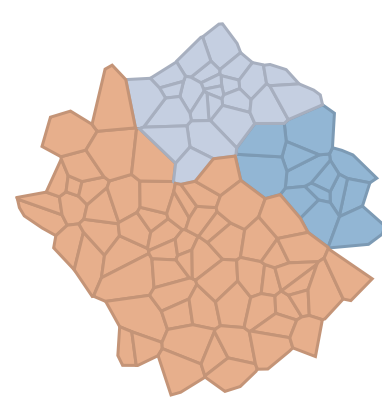
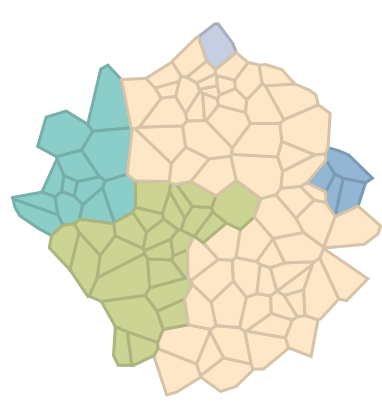
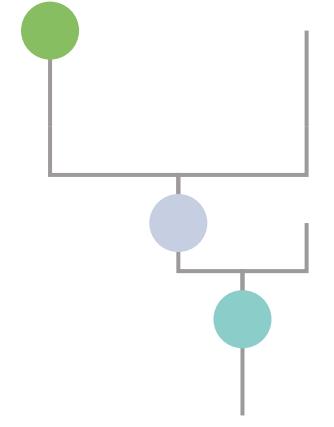
TR1



TR3

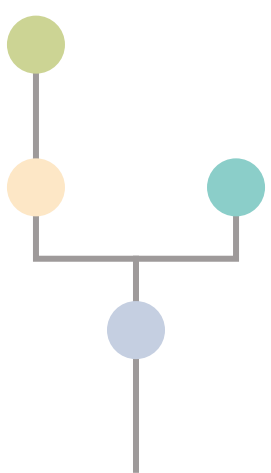
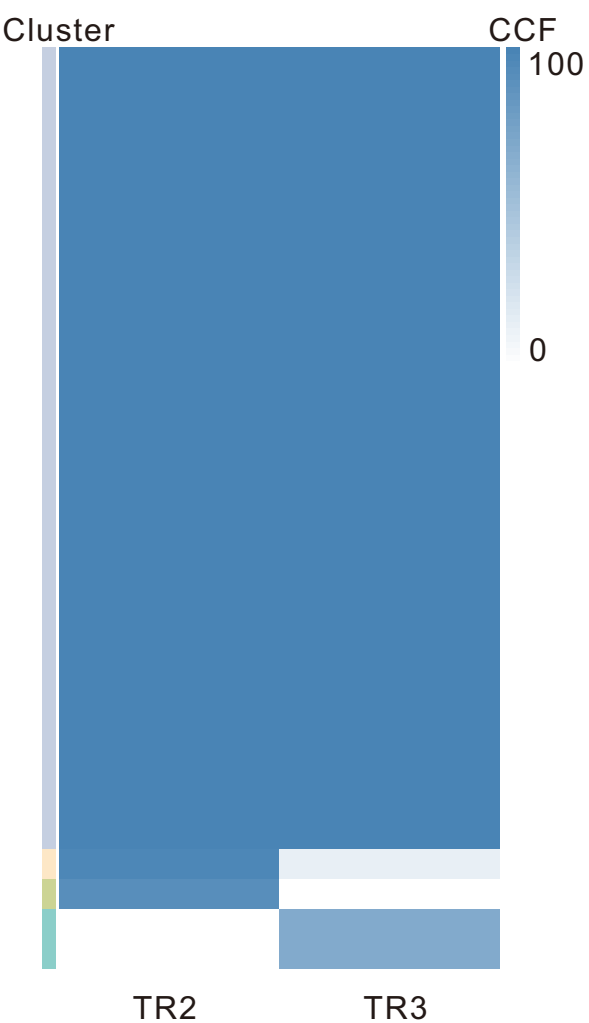


TR5

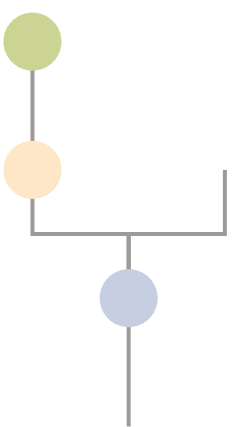


CRC08

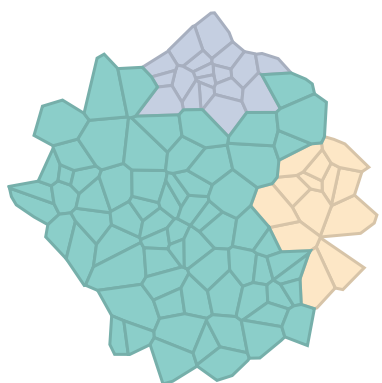
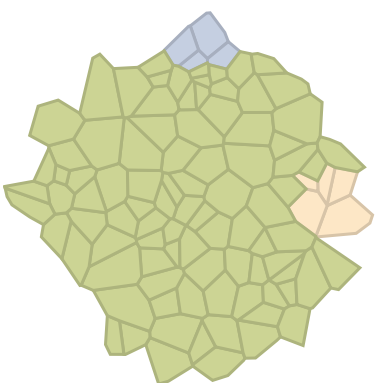
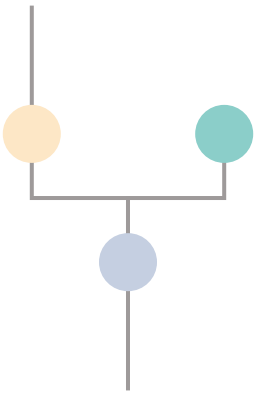
Gene	Cytoband	Type	Cluster
<i>ESR1</i>	6q25.1	SNV	1
<i>ARHGEF10</i>	8p23.3	SNV	1
<i>PREX2</i>	8q13.2	SNV	1
<i>CSMD3</i>	8q23.3	SNV	1
<i>BCL9</i>	1q21.2	Amp	1
<i>ARNT</i>	1q21.3	Amp	1
<i>SETDB1</i>	1q21.3	Amp	1
<i>POU5F1</i>	6p21.33	Amp	1
<i>TRIM27</i>	6p22.1	Amp	1
<i>HIST1H3B</i>	6p22.2	Amp	1
<i>DEK</i>	6p22.3	Amp	1
<i>IRF4</i>	6p25.3	Amp	1
<i>CUX1</i>	7q22.1	Amp	1
<i>FLT3</i>	13q12.2	Amp	1
<i>FOXO1</i>	13q14.11	Amp	1
<i>CYSLTR2</i>	13q14.2	Amp	1
<i>SSX2</i>	Xp11.22	Amp	1
<i>ARAF</i>	Xp11.23	Amp	1
<i>GATA1</i>	Xp11.23	Amp	1
<i>SSX1</i>	Xp11.23	Amp	1
<i>SSX4</i>	Xp11.23	Amp	1
<i>TFE3</i>	Xp11.23	Amp	1
<i>WAS</i>	Xp11.23	Amp	1
<i>KDM6A</i>	Xp11.3	Amp	1
<i>BTK</i>	Xq22.1	Amp	1
<i>IRS4</i>	Xq22.3	Amp	1
<i>BCORL1</i>	Xq26.1	Amp	1
<i>ELF4</i>	Xq26.1	Amp	1
<i>GPC3</i>	Xq26.2	Amp	1
<i>CASP9</i>	1p36.21	Del	1
<i>PRDM2</i>	1p36.21	Del	1
<i>SPEN</i>	1p36.21	Del	1
<i>CAMTA1</i>	1p36.31	Del	1
<i>RPL22</i>	1p36.31	Del	1
<i>TNFRSF14</i>	1p36.32	Del	1
<i>DAXX</i>	6p21.32	Del	1
<i>NDRG1</i>	8q24.22	Del	1
<i>RECQL4</i>	8q24.3	Del	1
<i>FEN1</i>	11q12.2	Del	1
<i>SDHAF2</i>	11q12.2	Del	1
<i>MEN1</i>	11q13.1	Del	1
<i>FLCN</i>	17p11.2	Del	1
<i>NCOR1</i>	17p11.2	Del	1
<i>MAP2K4</i>	17p12	Del	1
<i>PER1</i>	17p13.1	Del	1
<i>TP53</i>	17p13.1	Del	1
<i>YWHAE</i>	17p13.3	Del	1
<i>ELL</i>	19p13.11	Del	1
<i>DNM2</i>	19p13.2	Del	1
<i>KEAP1</i>	19p13.2	Del	1
<i>SMARCA4</i>	19p13.2	Del	1
<i>STK11</i>	19p13.3	Del	1
<i>TCF3</i>	19p13.3	Del	1
<i>CLTCL1</i>	22q11.21	Del	1
<i>LZTR1</i>	22q11.21	Del	1
<i>SMARCB1</i>	22q11.23	Del	1
<i>CHEK2</i>	22q12.1	Del	1
<i>ZNRF3</i>	22q12.1	Del	1
<i>NF2</i>	22q12.2	Del	1
<i>MYH9</i>	22q12.3	Del	1
<i>APOBEC3B</i>	22q13.1	Del	1
<i>EP300</i>	22q13.2	Del	1
<i>MKL1</i>	22q13.2	Del	1
<i>MUC4</i>	3q29	Amp	2
<i>NOTCH1</i>	9q34.3	Del	2
<i>TBX3</i>	12q24.21	Del	2
<i>HNF1A</i>	12q24.31	Del	2
<i>NCOR2</i>	12q24.31	Del	2
<i>SETD1B</i>	12q24.31	Del	2
<i>POLE</i>	12q24.33	Del	2
<i>TP53</i>	17p13.1	SNV	NA



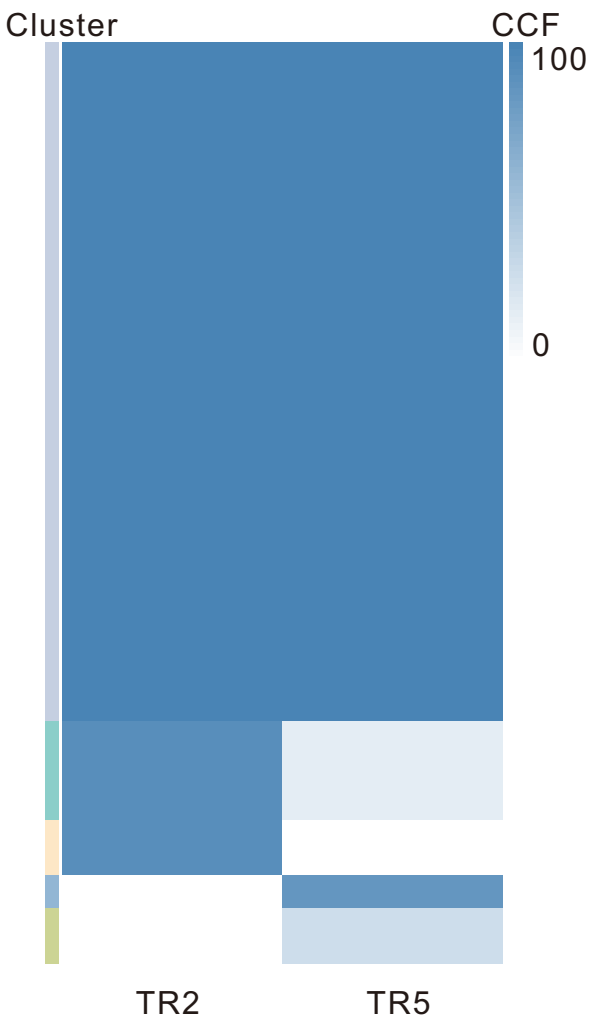
TR2



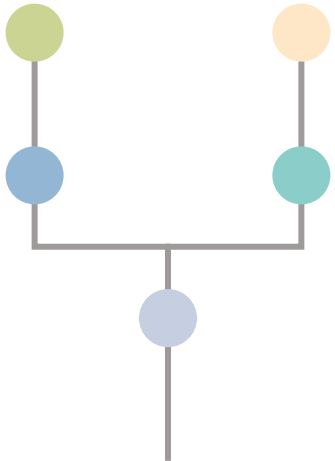
TR3



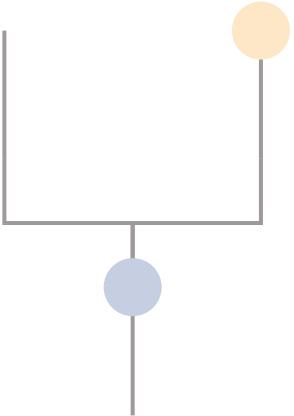
CRC10



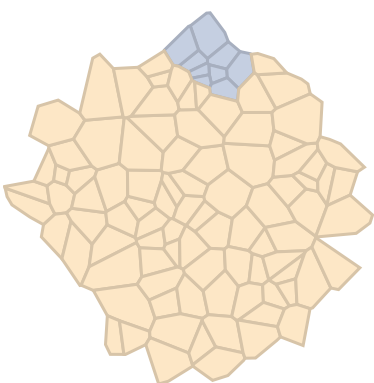
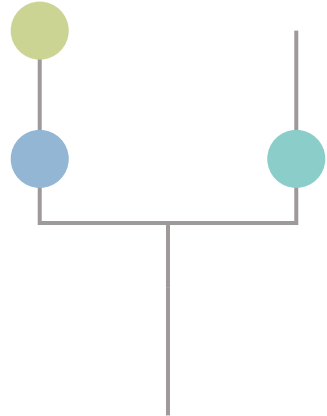
Gene	Cytoband	Type	Cluster
<i>KRAS</i>	12p12.1	SNV	1
<i>APC</i>	5q22.2	InDel	1
<i>FLT3</i>	13q12.2	Amp	1
<i>FOXO1</i>	13q14.11	Amp	1
<i>CYSLTR2</i>	13q14.2	Amp	1
<i>CAMTA1</i>	1p36.31	Del	1
<i>RPL22</i>	1p36.31	Del	1
<i>TNFRSF14</i>	1p36.32	Del	1
<i>FLCN</i>	17p11.2	Del	1
<i>NCOR1</i>	17p11.2	Del	1
<i>MAP2K4</i>	17p12	Del	1
<i>PER1</i>	17p13.1	Del	1
<i>TP53</i>	17p13.1	Del	1
<i>YWHAE</i>	17p13.3	Del	1
<i>TSC1</i>	9q34.13	Del	2
<i>NOTCH1</i>	9q34.3	Del	2
<i>AXIN1</i>	16p13.3	Del	2
<i>STK11</i>	19p13.3	Del	2
<i>TCF3</i>	19p13.3	Del	2

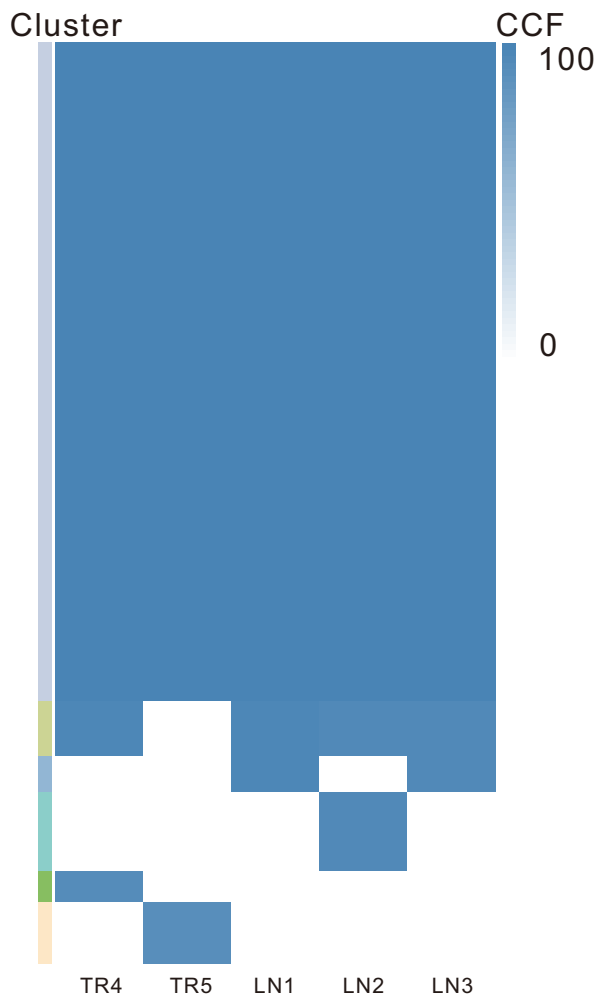


TR2

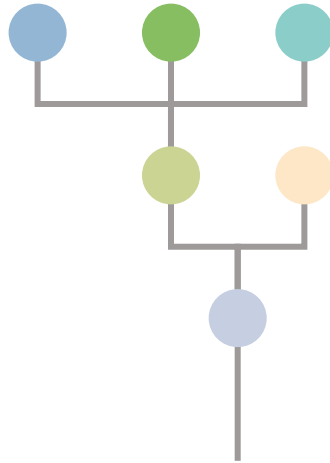


TR5



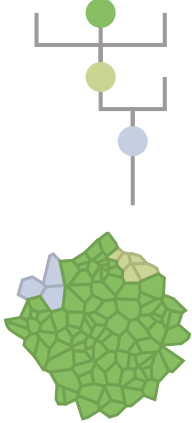


CRC11

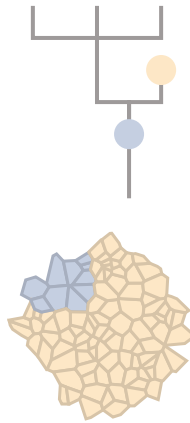


Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
BRAF	7q34	SNV	1
ZFHX3	16q22.2	SNV	1
* SMAD4	18q21.2	SNV	1
* SMAD4	18q21.2	SNV	1
* APC	5q22.2	InDel	1
PAX5	9p13.2	Amp	1
PSIP1	9p22.3	Amp	1
JAK2	9p24.1	Amp	1
PDCD1LG2	9p24.1	Amp	1
GNAQ	9q21.2	Amp	1
SYK	9q22.2	Amp	1
NR4A3	9q31.1	Amp	1
KLF4	9q31.2	Amp	1
TAL2	9q31.2	Amp	1
TNC	9q33.1	Amp	1
SET	9q34.11	Amp	1
ABL1	9q34.12	Amp	1
BRD3	9q34.2	Amp	1
NOTCH1	9q34.3	Amp	1
FLT3	13q12.2	Amp	2
FOXO1	13q14.11	Amp	2
CYSLTR2	13q14.2	Amp	2
SDHA	5p15.33	Del	3
MUC4	3q29	Amp	NA
PLAG1	8q12.1	Amp	NA
PREX2	8q13.2	Amp	NA
NCOA2	8q13.3	Amp	NA
HEY1	8q21.13	Amp	NA
RUNX1T1	8q21.3	Amp	NA
CDH17	8q22.1	Amp	NA
PABPC1	8q22.3	Amp	NA
UBR5	8q22.3	Amp	NA
RAD21	8q24.11	Amp	NA
AXIN1	16p13.3	Del	NA

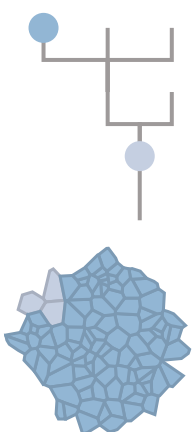
TR4



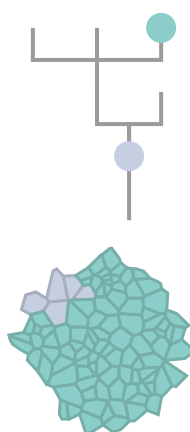
TR5



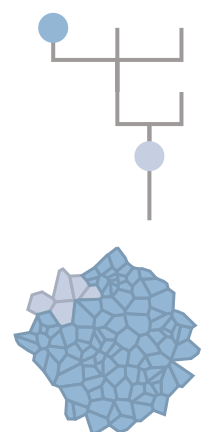
LN1

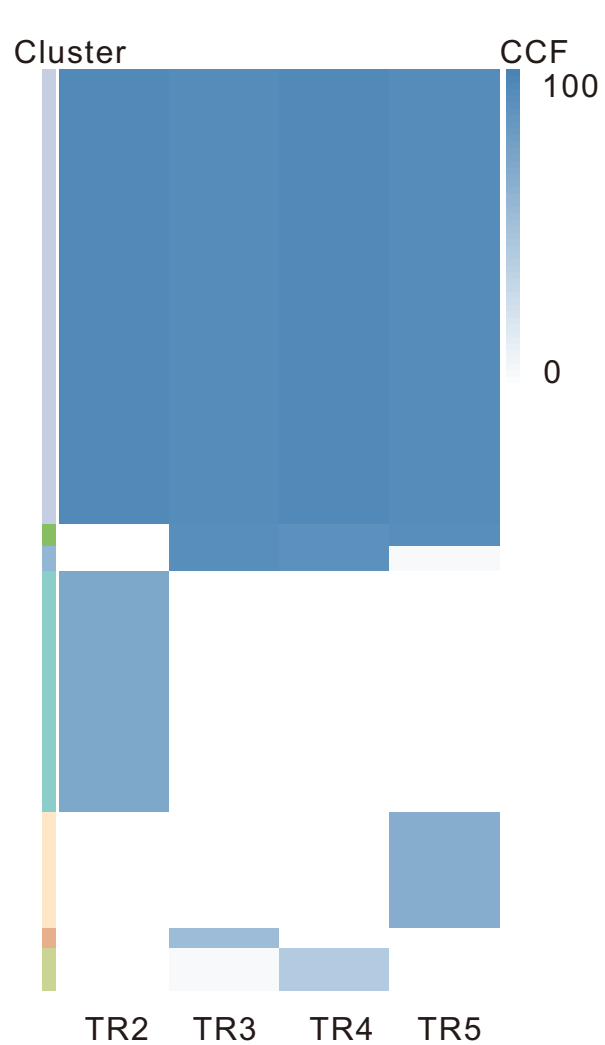


LN2

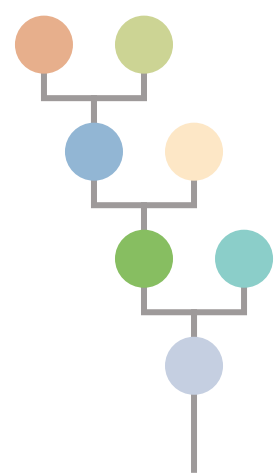


LN3



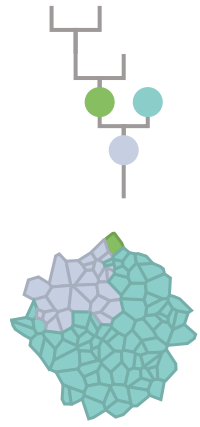


CRC12

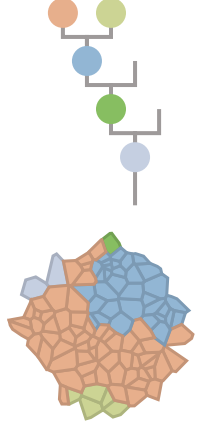


Gene	Cytoband	Type	Cluster
IDH1	2q34	SNV	1
BRAF	7q34	SNV	1
ARID2	12q12	SNV	1
RNF43	17q22	SNV	1
SMAD4	18q21.2	SNV	1
TP53	17p13.1	InDel	1
CREB3L2	7q33	Amp	1
TRIM24	7q33	Amp	1
BRAF	7q34	Amp	1
EZH2	7q36.1	Amp	1
RUNX1T1	8q21.3	Amp	1
CDH17	8q22.1	Amp	1
PABPC1	8q22.3	Amp	1
UBR5	8q22.3	Amp	1
RAD21	8q24.11	Amp	1
MYC	8q24.21	Amp	1
RECQL4	8q24.3	Amp	1
FLT3	13q12.2	Amp	1
FOXO1	13q14.11	Amp	1
CYSLTR2	13q14.2	Amp	1
ELK4	1q32.1	Amp	2
MDM4	1q32.1	Amp	2
ROBO2	3p12.3	SNV	3
FAT4	4q28.1	SNV	4
PRDM16	1p36.32	Amp	NA
ARNT	1q21.3	Amp	NA
SETDB1	1q21.3	Amp	NA
FCRL4	1q23.1	Amp	NA
NTRK1	1q23.1	Amp	NA
DDR2	1q23.3	Amp	NA
FCGR2B	1q23.3	Amp	NA
PBX1	1q23.3	Amp	NA

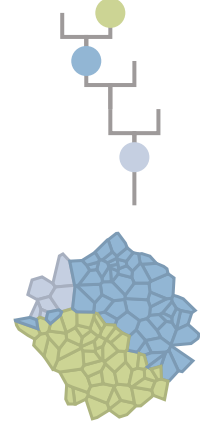
TR2



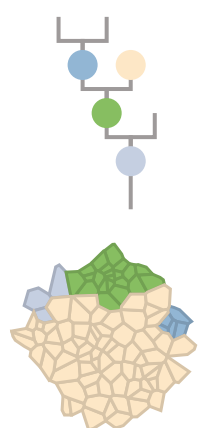
TR3



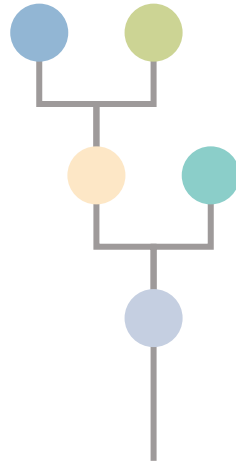
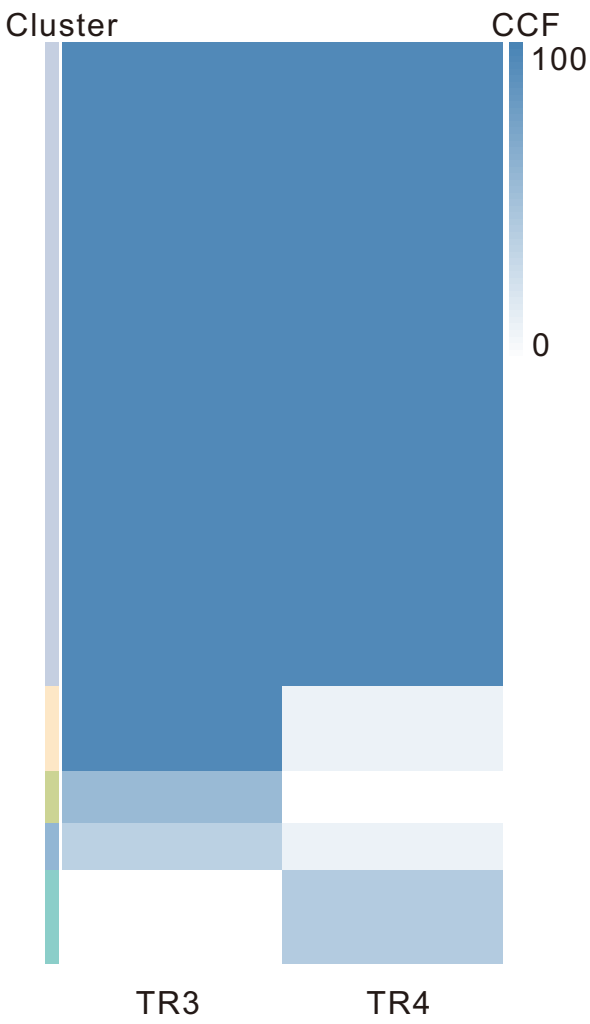
TR4



TR5

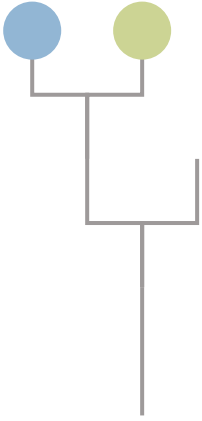


CRC14

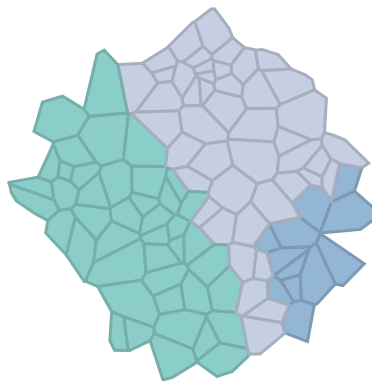
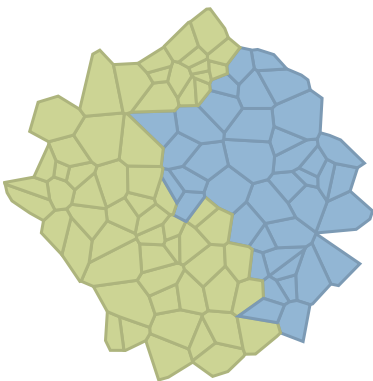
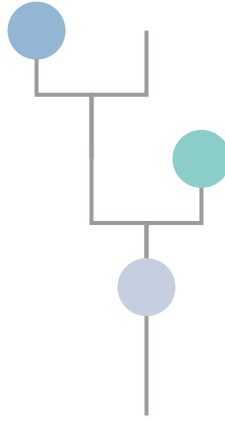


Gene	Cytoband	Type	Cluster
<i>SDHB</i>	1p36.13	SNV	1
<i>TP63</i>	3q28	SNV	1
<i>APC</i>	5q22.2	SNV	1
<i>ESR1</i>	6q25.1	SNV	1
<i>DICER1</i>	14q32.13	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>IKKB</i>	8p11.21	Amp	1
<i>KAT6A</i>	8p11.21	Amp	1
<i>FGFR1</i>	8p11.23	Amp	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1

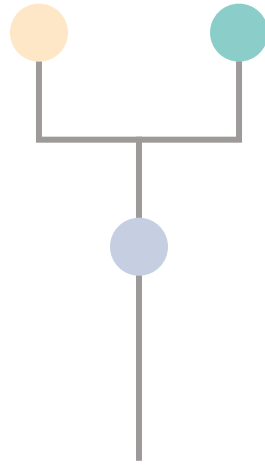
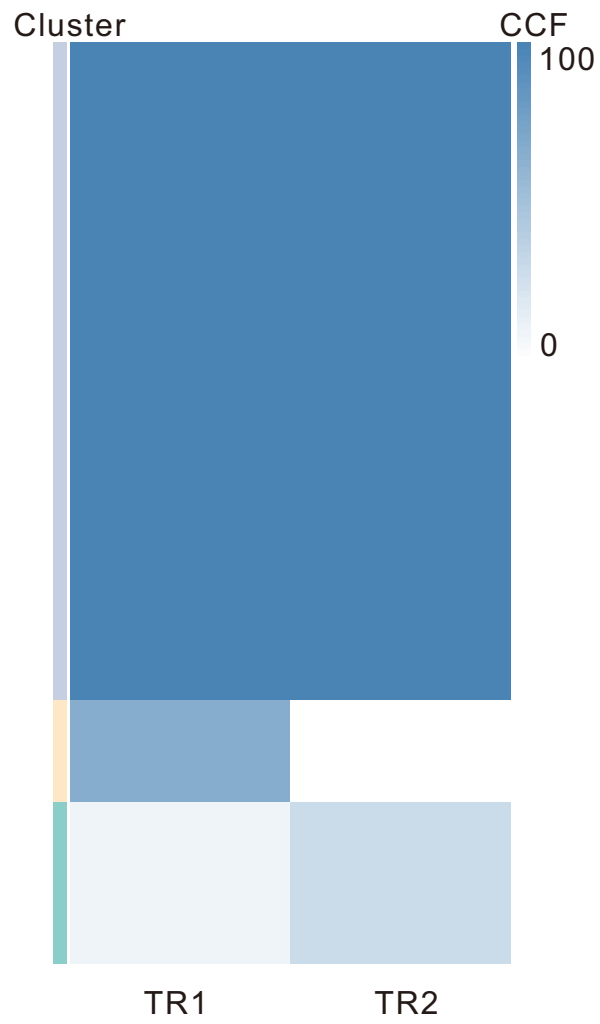
TR3



TR4

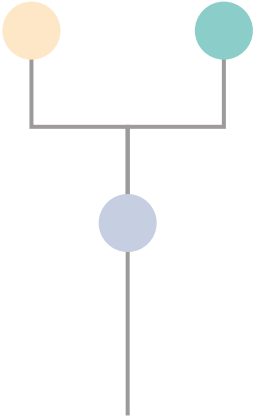


CRC16

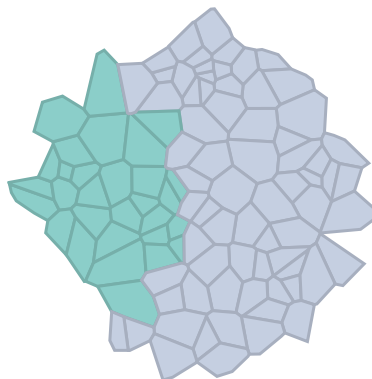
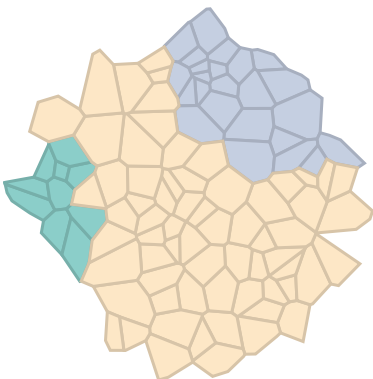
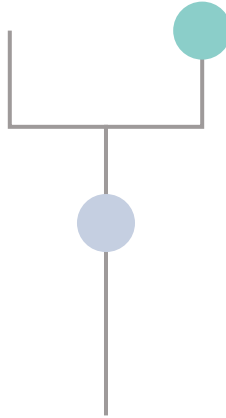


Gene	Cytoband	Type	Cluster
<i>MITF</i>	3p13	SNV	1
<i>CTNNB1</i>	3p22.1	SNV	1
<i>PIK3CA</i>	3q26.32	SNV	1
<i>APC</i>	5q22.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>RSPO2</i>	8q23.1	SNV	2

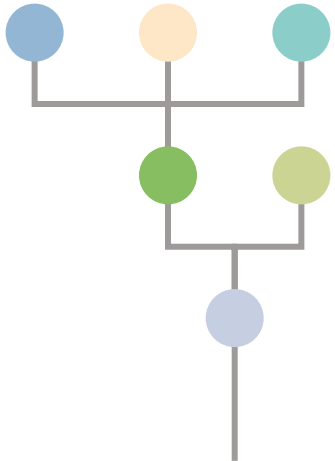
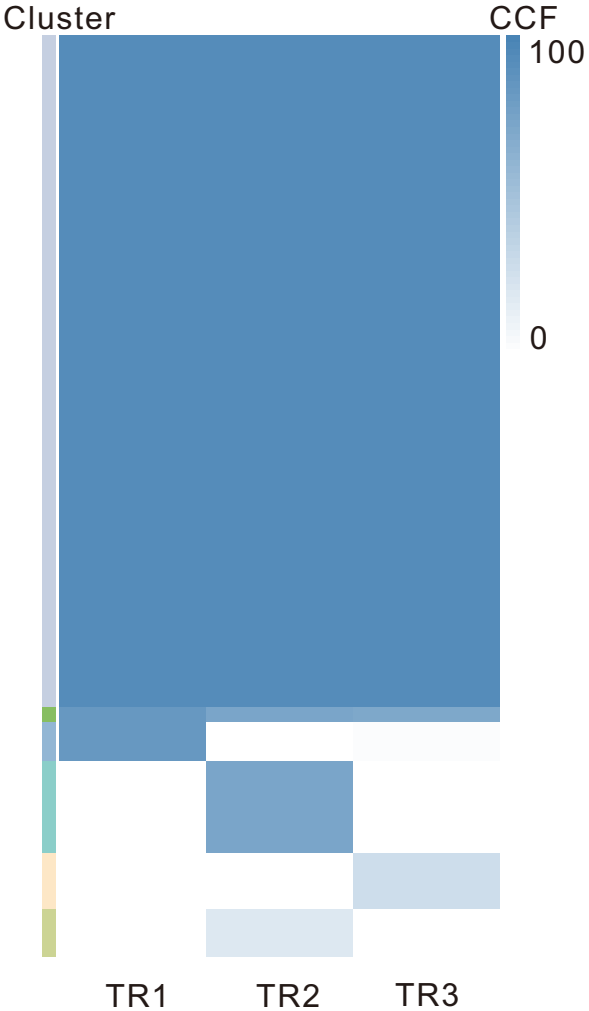
TR1



TR2

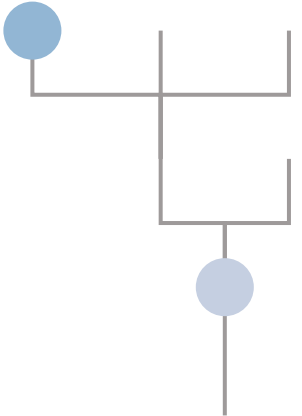


CRC18

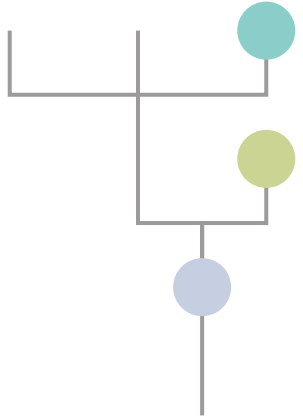


Gene	Cytoband	Type	Cluster
<i>CBLB</i>	3q13.11	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>AKT1</i>	14q32.33	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>APC</i>	5q22.2	InDel	1
<i>TCF7L2</i>	10q25.3	InDel	1
<i>LRP1B</i>	2q22.1	SNV	3

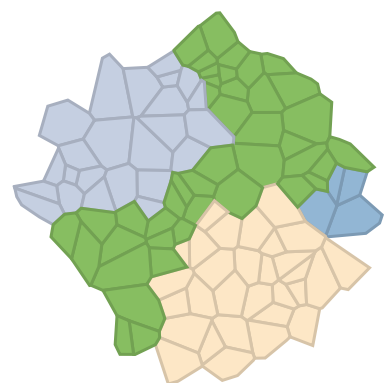
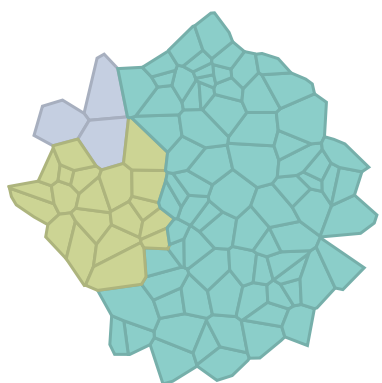
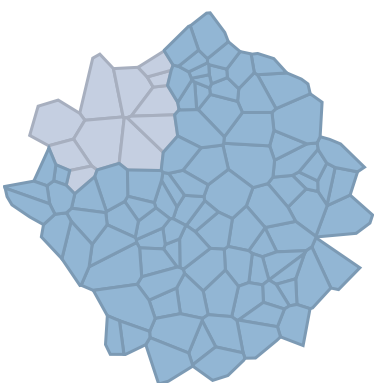
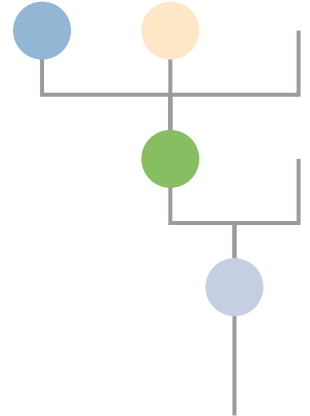
TR1



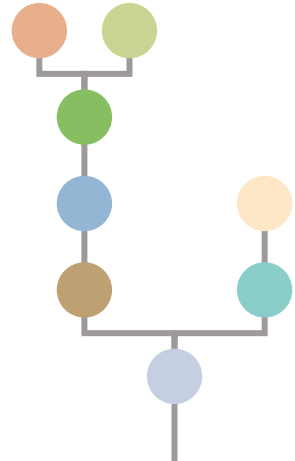
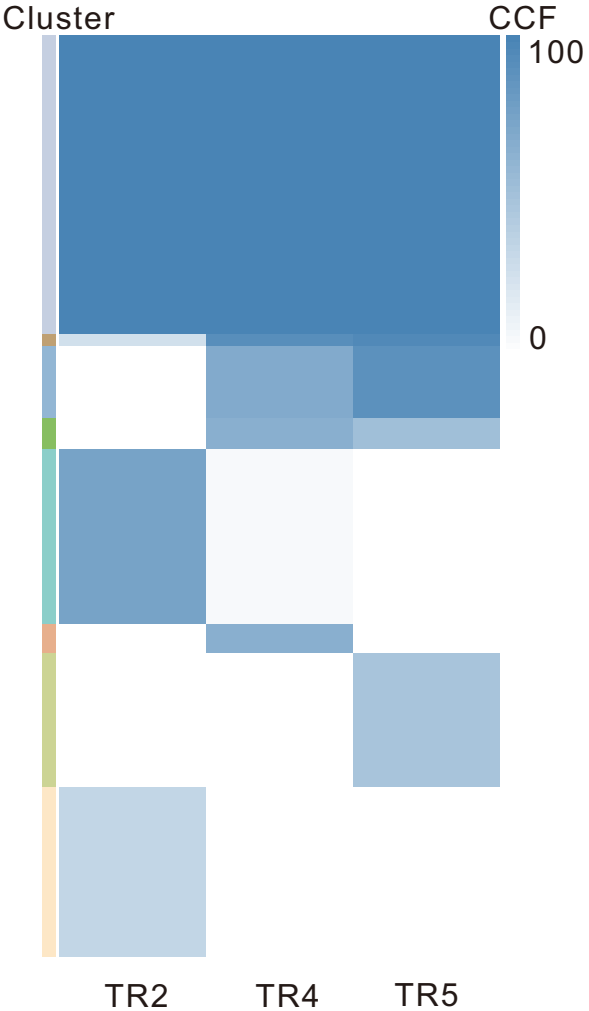
TR2



TR3

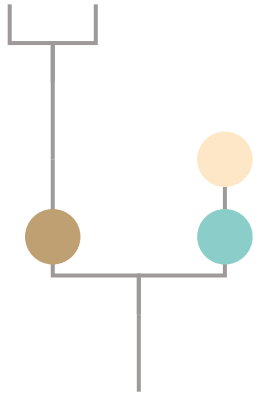


CRC19

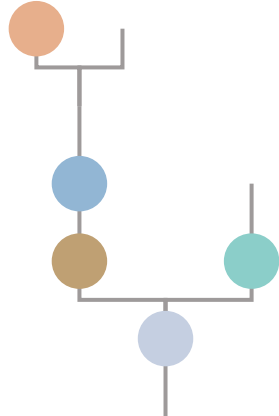


Gene	Cytoband	Type	Cluster
<i>APC</i>	5q22.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>ARID2</i>	12q12	SNV	1
<i>FLCN</i>	17p11.2	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1
<i>PER1</i>	17p13.1	SNV	3
<i>AMER1</i>	Xq11.2	SNV	NA

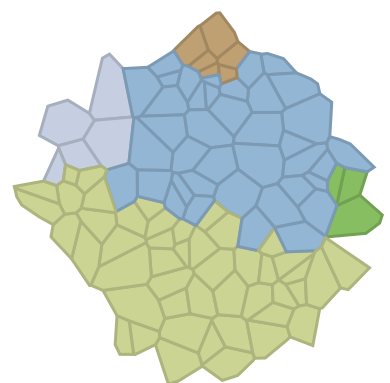
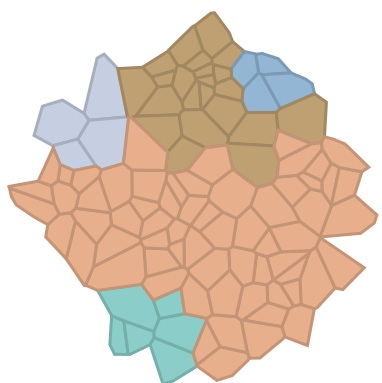
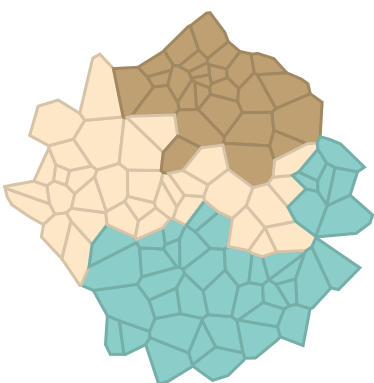
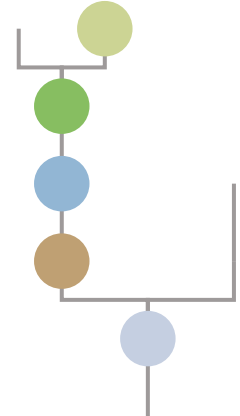
TR2



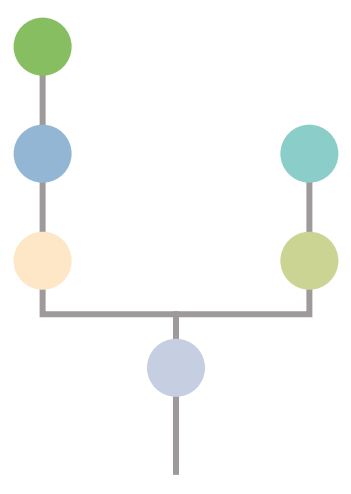
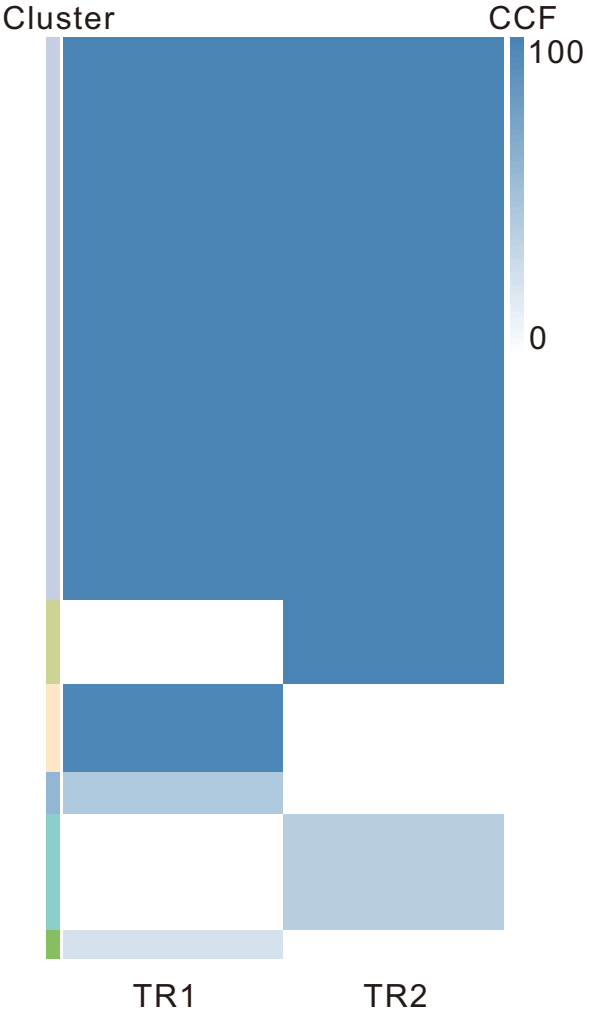
TR4



TR5

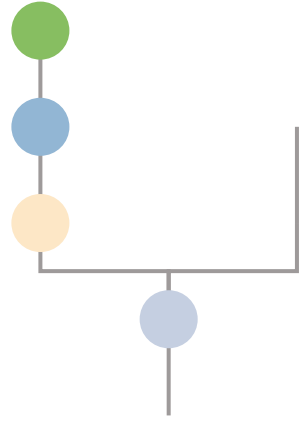


CRC20

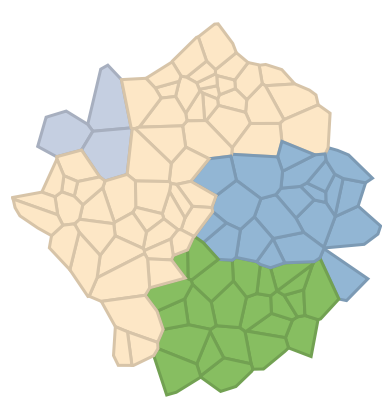
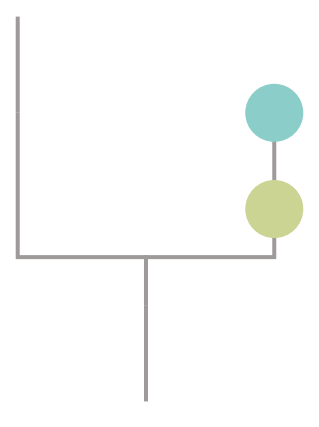


Gene	Cytoband	Type	Cluster
<i>FBXW7</i>	4q31.3	SNV	1
<i>APC</i>	5q22.2	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1

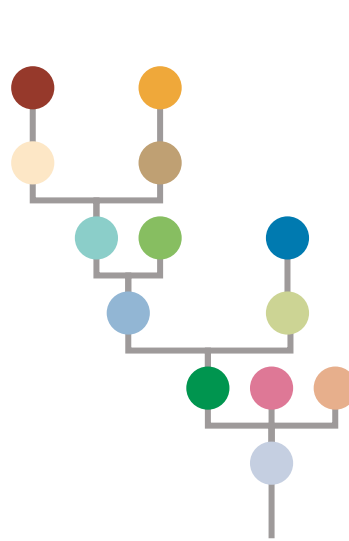
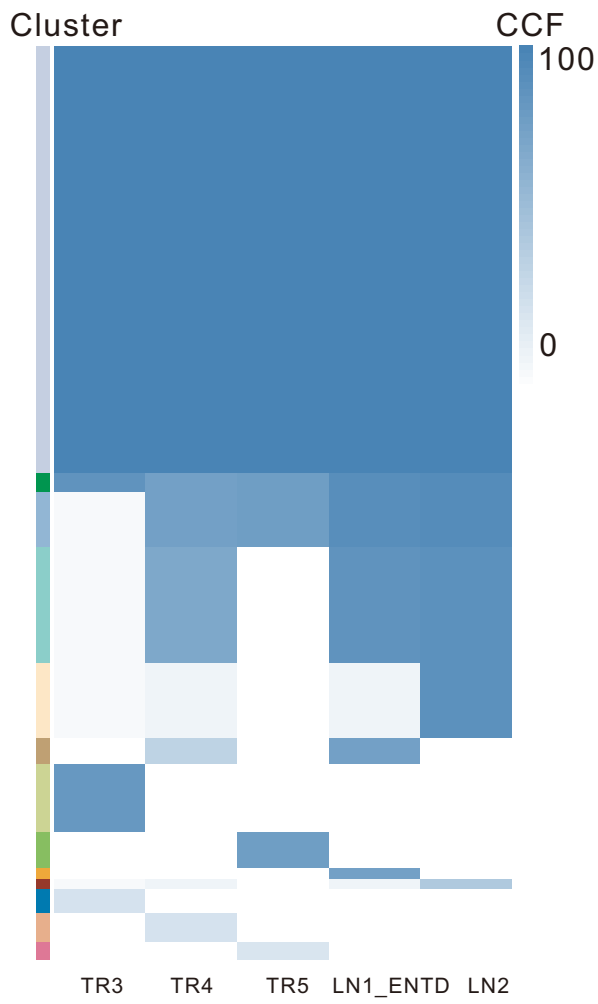
TR1



TR2

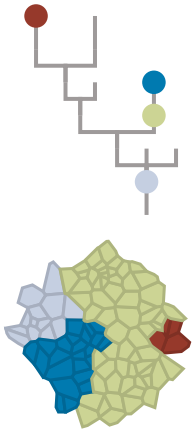


CRC21

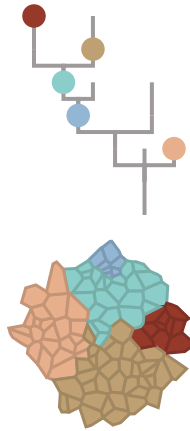


Gene	Cytoband	Type	Cluster
*ASXL2	2p23.3	SNV	1
BRAF	7q34	SNV	1
*ASXL2	2p23.3	InDel	1
TP53	17p13.1	InDel	1
RNF43	17q22	InDel	1
NCOA2	8q13.3	Amp	1
HEY1	8q21.13	Amp	1
RUNX1T1	8q21.3	Amp	1
CDH17	8q22.1	Amp	1
PABPC1	8q22.3	Amp	1
UBR5	8q22.3	Amp	1
RAD21	8q24.11	Amp	1
MYC	8q24.21	Amp	1
RECQL4	8q24.3	Amp	1
CCND2	12p13.32	Amp	2
KDM5A	12p13.33	Amp	2
ERBB4	2q34	SNV	3
TSC1	9q34.13	SNV	3

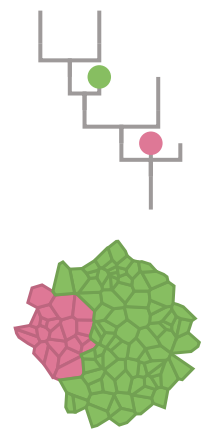
TR3



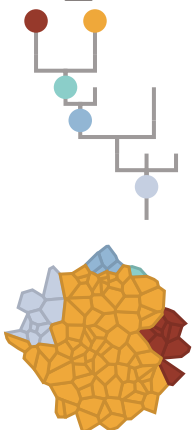
TR4



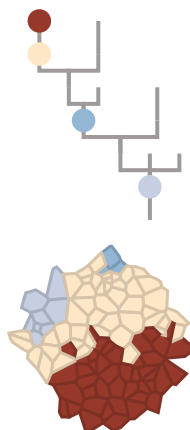
TR5



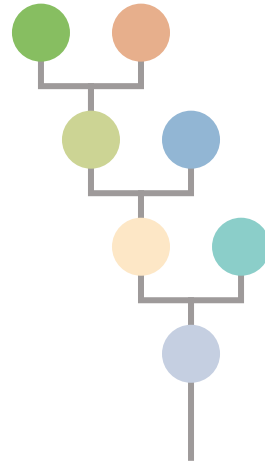
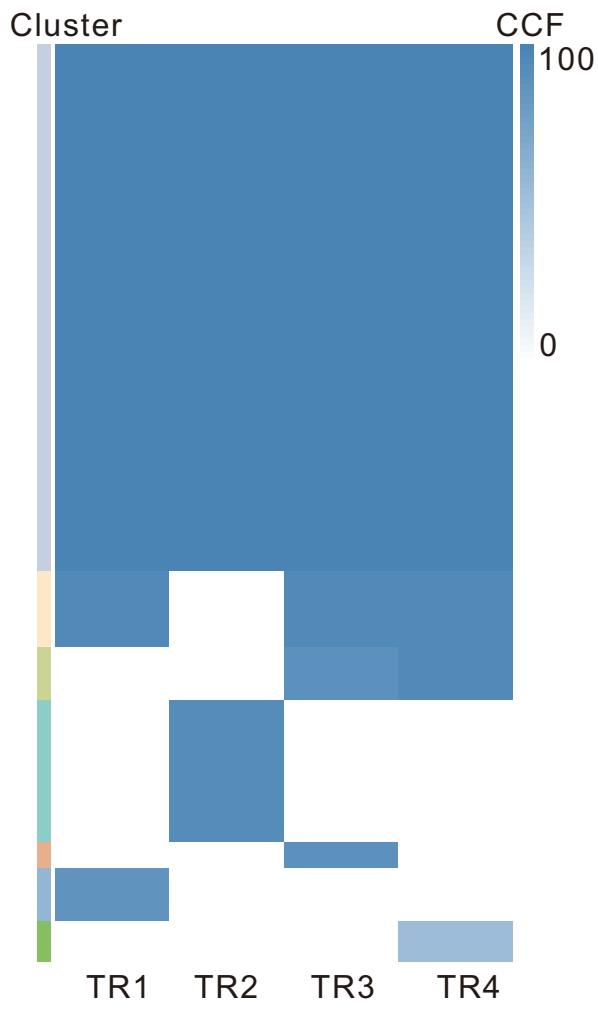
LN1_ENTD



LN2

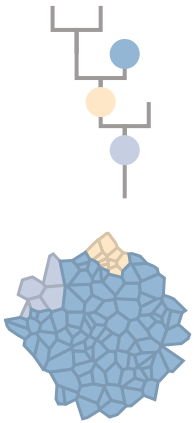


CRC22

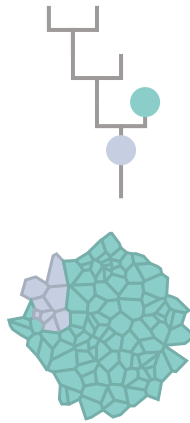


Gene	Cytoband	Type	Cluster
<i>APC</i>	5q22.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>FLT3</i>	13q12.2	Amp	1
<i>FOXO1</i>	13q14.11	Amp	1
<i>CYSLTR2</i>	13q14.2	Amp	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1
<i>KMT2D</i>	12q13.12	SNV	2
<i>AR</i>	Xq12	SNV	NA

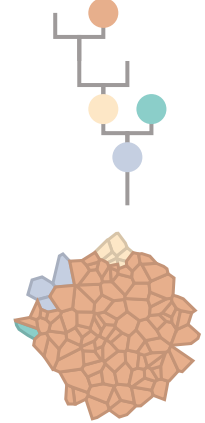
TR1



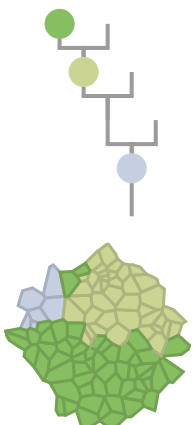
TR2



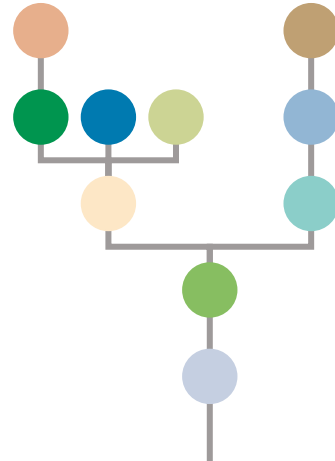
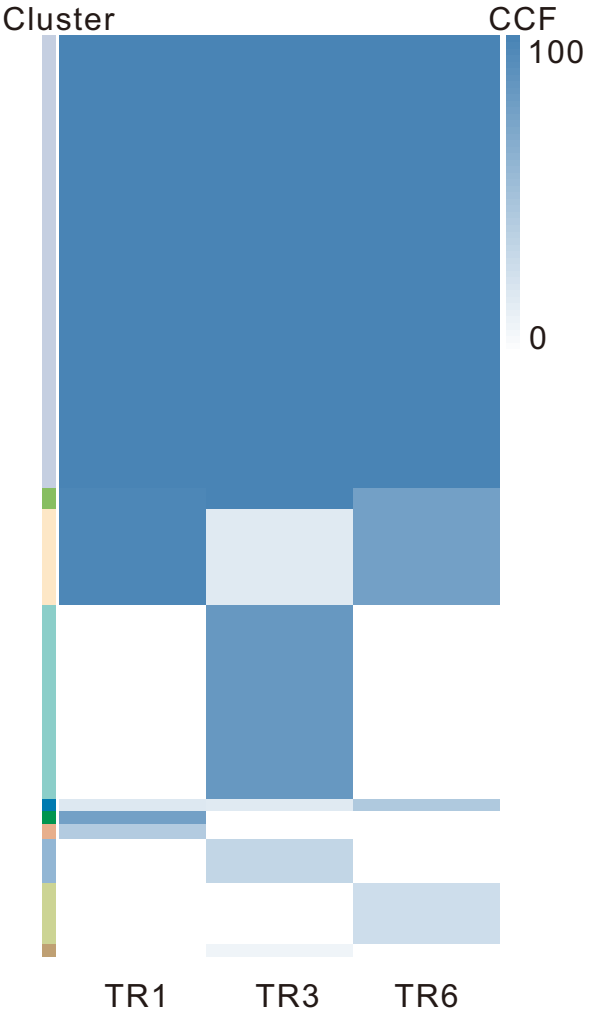
TR3



TR4

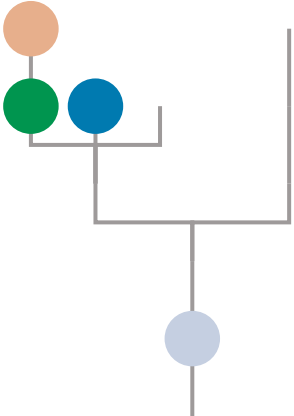


CRC23

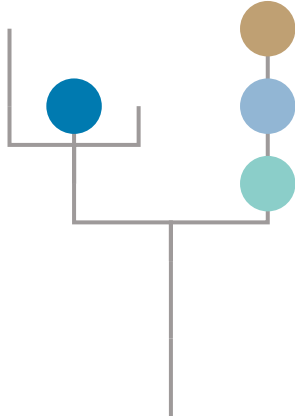


Gene	Cytoband	Type	Cluster
<i>ROBO2</i>	3p12.3	SNV	1
<i>FAT4</i>	4q28.1	SNV	1
<i>APC</i>	5q22.2	SNV	1
<i>STAT5B</i>	17q21.2	SNV	1
<i>BCL9L</i>	11q23.3	InDel	1
<i>LRP1B</i>	2q22.1	SNV	2
<i>MSH6</i>	2p16.3	SNV	4
<i>BCORL1</i>	Xq26.1	SNV	NA

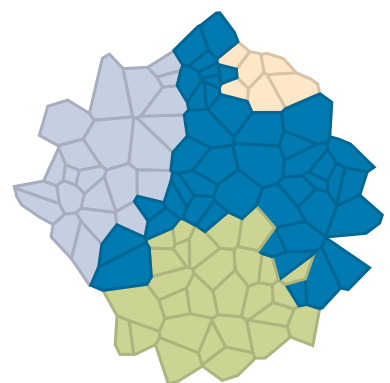
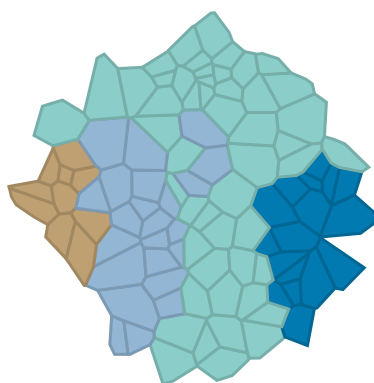
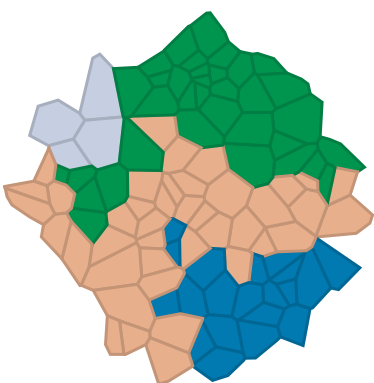
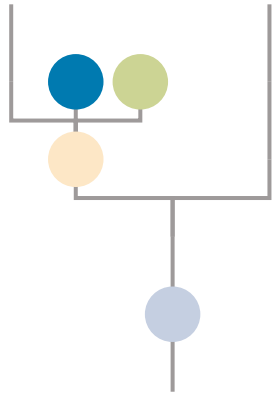
TR1



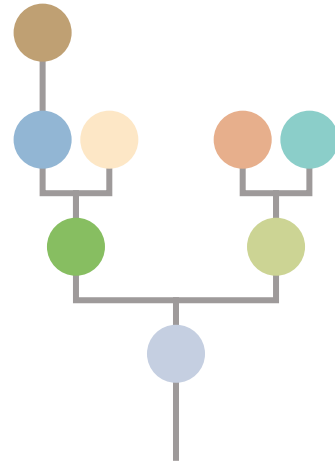
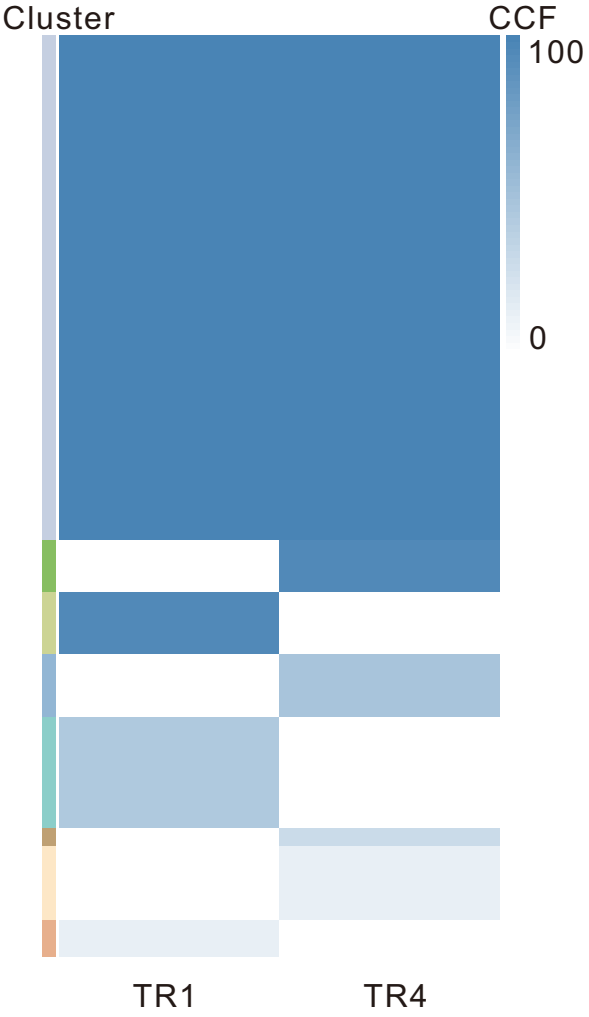
TR3



TR6

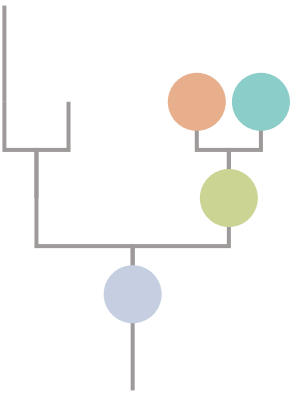


CRC24

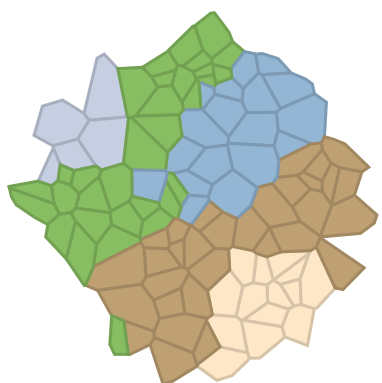
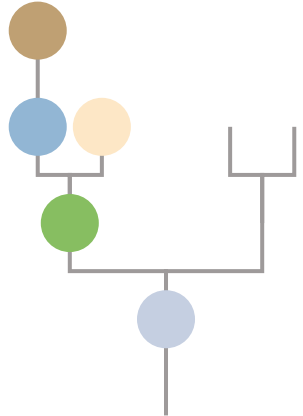


Gene	Cytoband	Type	Cluster
<i>BMPR1A</i>	10q23.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>GRIN2A</i>	16p13.2	SNV	3

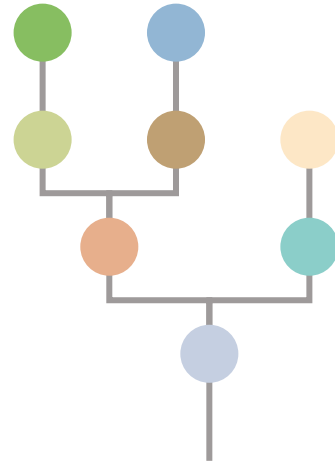
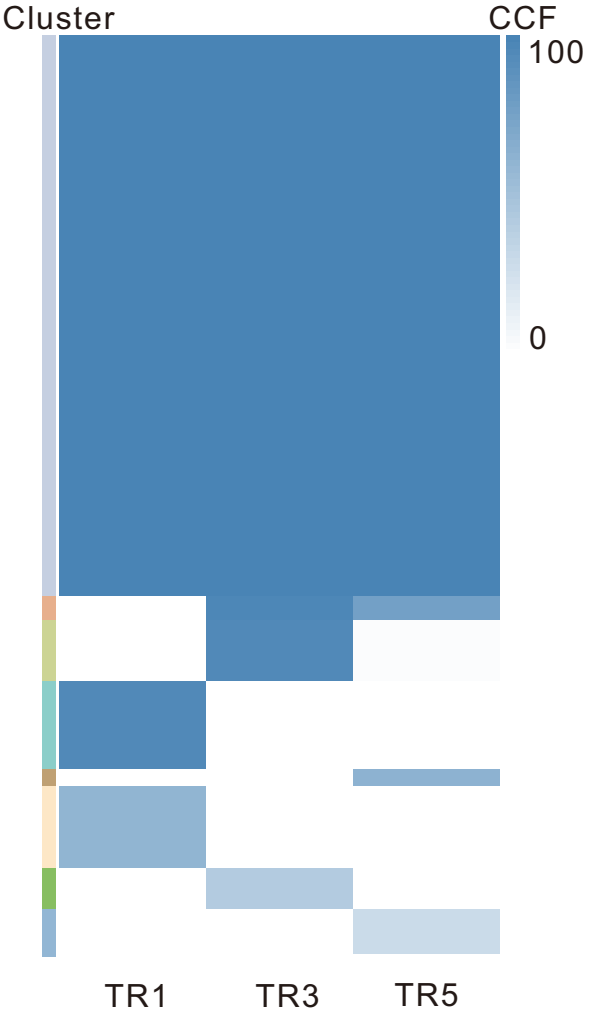
TR1



TR4

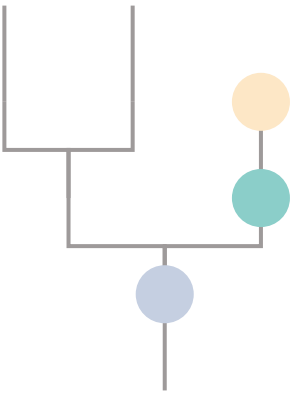


CRC25

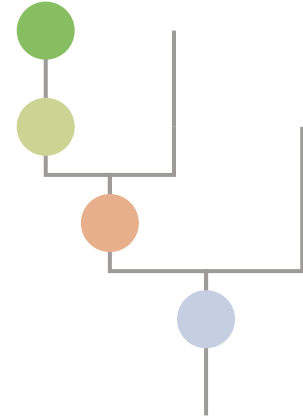


Gene	Cytoband	Type	Cluster
<i>ERBB4</i>	2q34	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>APC</i>	5q22.2	InDel	1
<i>FLT3</i>	13q12.2	Amp	1
<i>FOXO1</i>	13q14.11	Amp	1
<i>CYSLTR2</i>	13q14.2	Amp	1
<i>LRP1B</i>	2q22.1	SNV	8

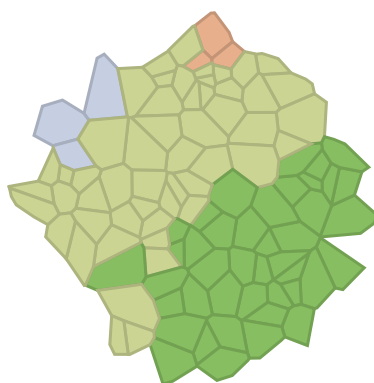
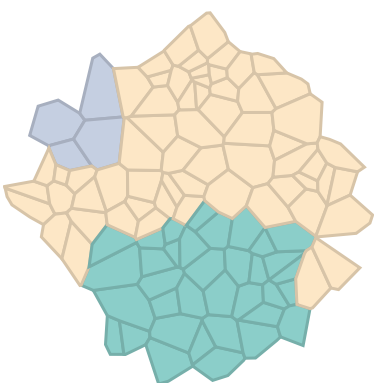
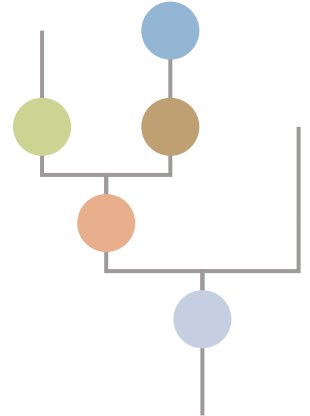
TR1



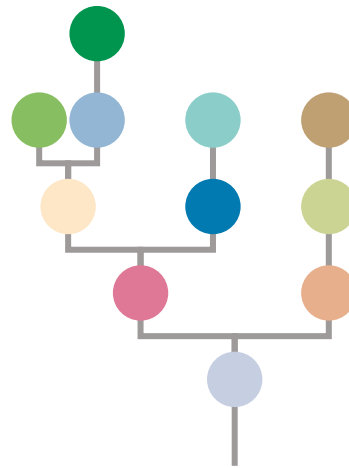
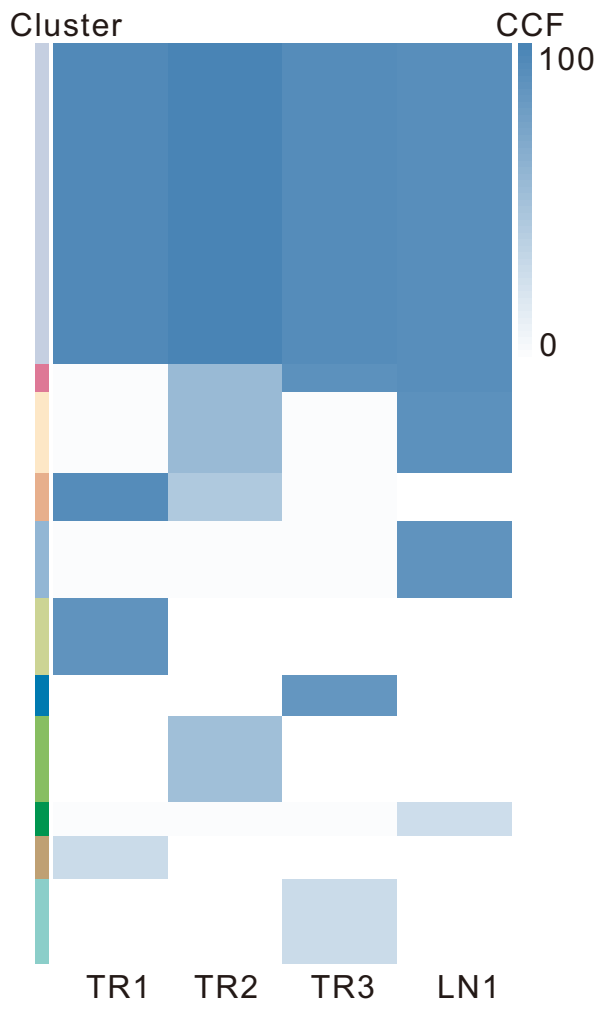
TR3



TR5

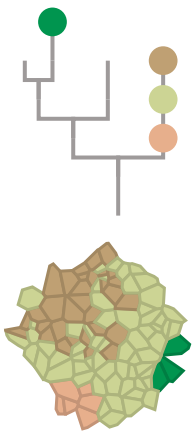


CRC26

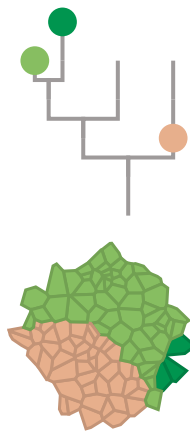


Gene	Cytoband	Type	Cluster
LEF1	4q25	SNV	1
FBXW7	4q31.3	SNV	1
*APC	5q22.2	SNV	1
KRAS	12p12.1	SNV	1
*APC	5q22.2	InDel	1
TP53	17p13.1	InDel	1
FLT3	13q12.2	Amp	1
CYSLTR2	13q14.2	Amp	1
FOXO1	13q14.11	Amp	1
CSMD3	8q23.3	SNV	3
EIF3E	8q23.1	SNV	5
SMAD3	15q22.33	InDel	6
MUC4	3q29	Amp	6
CREB3L2	7q33	Amp	6
TRIM24	7q33	Amp	6
BRAF	7q34	Amp	6
EZH2	7q36.1	Amp	6
SRC	20q11.23	Amp	6
MAFB	20q12	Amp	6
PLCG1	20q12	Amp	6
NFATC2	20q13.2	Amp	6
SALL4	20q13.2	Amp	6
GNAS	20q13.32	Amp	6
PTK6	20q13.33	Amp	6
AXIN1	16p13.3	Del	7
FGFR1	8p11.23	Amp	NA

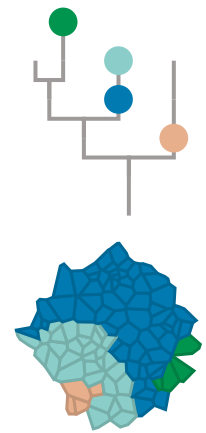
TR1



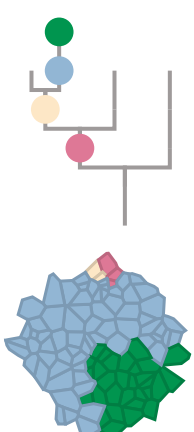
TR2



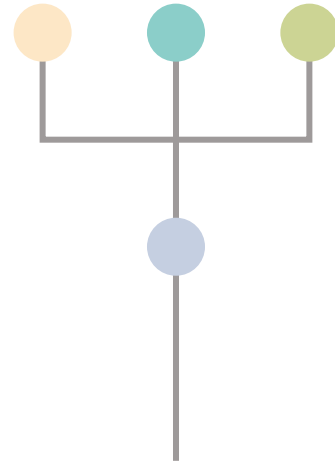
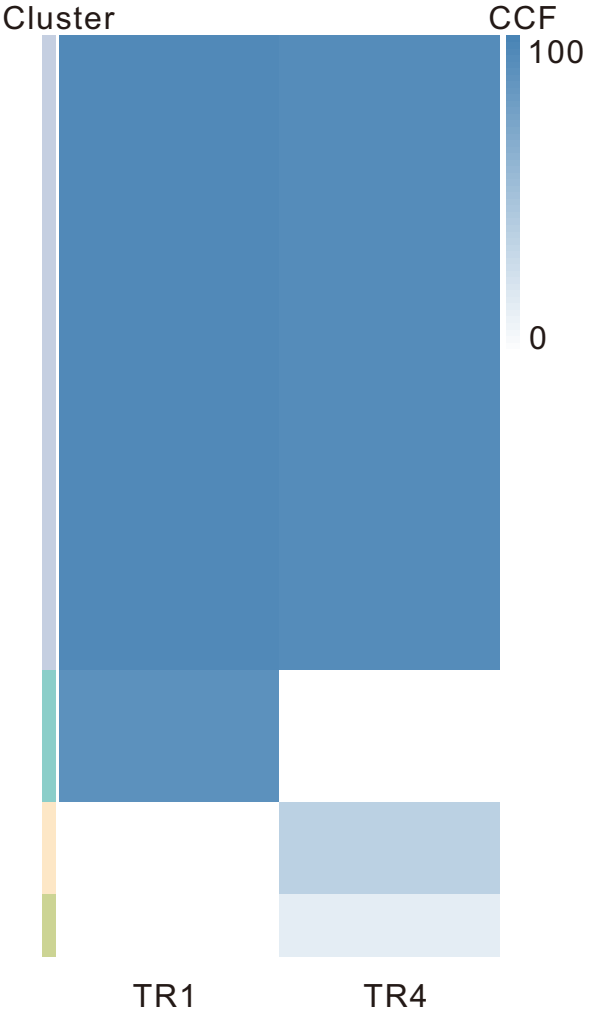
TR3



LN1

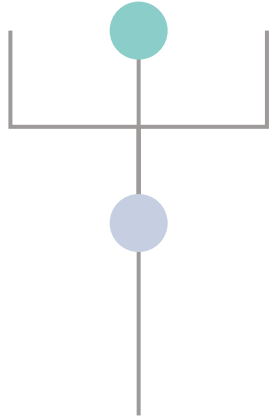


CRC27

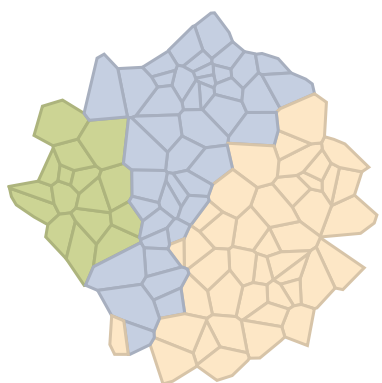
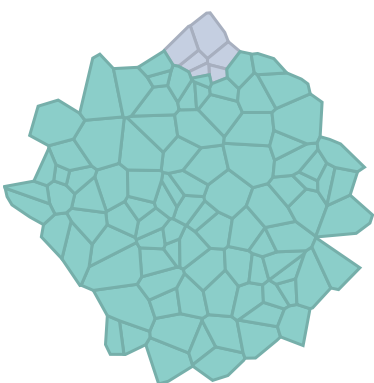
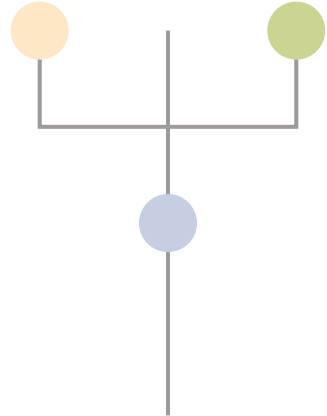


Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
* TP53	17p13.1	SNV	1
* TP53	17p13.1	SNV	1
* APC	5q22.2	InDel	1
LZTR1	22q11.21	InDel	1
MUC4	3q29	Amp	1
SRC	20q11.23	Amp	1
MAFB	20q12	Amp	1
PLCG1	20q12	Amp	1
NFATC2	20q13.2	Amp	1
SALL4	20q13.2	Amp	1
SSX2	Xp11.22	Amp	1
ARAF	Xp11.23	Amp	1
GATA1	Xp11.23	Amp	1
SSX1	Xp11.23	Amp	1
SSX4	Xp11.23	Amp	1
TFE3	Xp11.23	Amp	1
WAS	Xp11.23	Amp	1
KDM6A	Xp11.3	Amp	1
IRS4	Xq22.3	Del	1
STAG2	Xq25	Del	1
BCORL1	Xq26.1	Del	1
ELF4	Xq26.1	Del	1
GPC3	Xq26.2	Del	1
PHF6	Xq26.2	Del	1
ATP2B3	Xq28	Del	1
RPL10	Xq28	Del	1
NOTCH2	1p12	Amp	NA
BCL9	1q21.2	Amp	NA

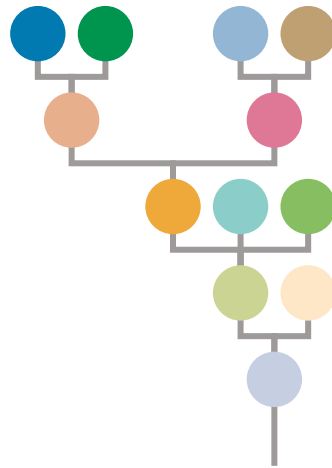
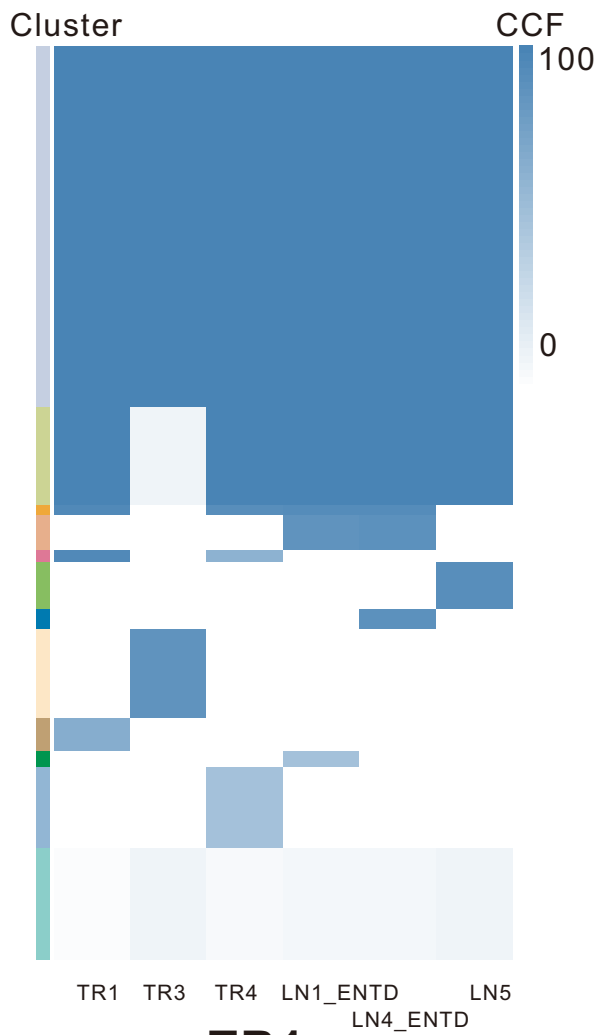
TR1



TR4

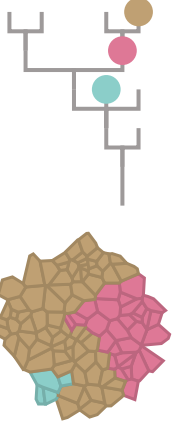


CRC28

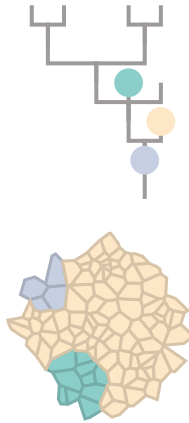


Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
* APC	5q22.2	SNV	1
KRAS	12p12.1	SNV	1
CLTCL1	22q11.21	SNV	1
KRAS	12p12.1	Amp	1
CHD4	12p13.31	Amp	1
CCND2	12p13.32	Amp	1
KDM5A	12p13.33	Amp	1
IRS4	Xq22.3	Amp	1
BCORL1	Xq26.1	Amp	1
ELF4	Xq26.1	Amp	1
GPC3	Xq26.2	Amp	1
FAT4	4q28.1	SNV	2
ARID1A	1p36.11	SNV	3
ID3	1p36.12	Del	4
ARHGEF10L	1p36.13	Del	4
SDHB	1p36.13	Del	4
CAMTA1	1p36.31	Del	4
RPL22	1p36.31	Del	4
TNFRSF14	1p36.32	Del	4
CASP8	2q33.1	SNV	6
JAK2	9p24.1	Amp	6
PDCD1LG2	9p24.1	Amp	6
KDM5C	Xp11.22	SNV	NA

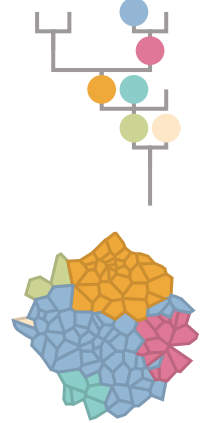
TR1



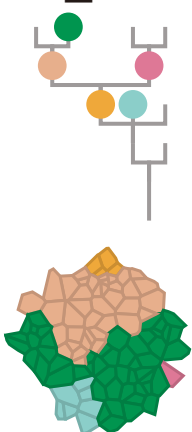
TR3



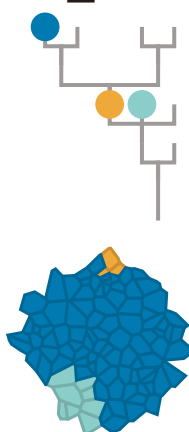
TR4



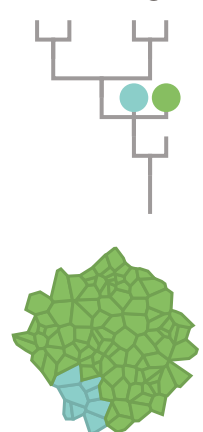
LN1_ENTD

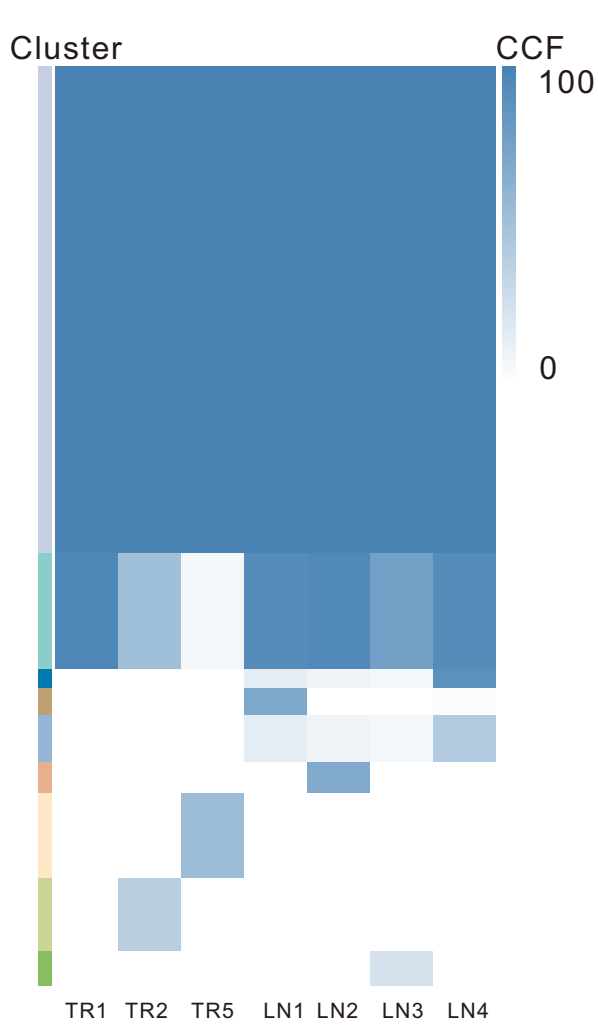


LN4_ENTD

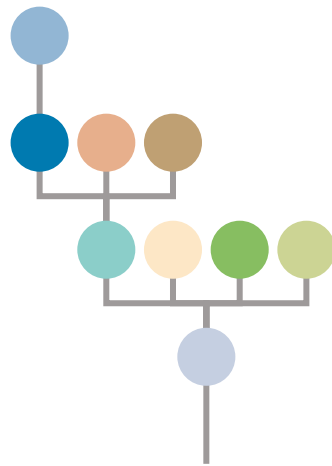


LN5



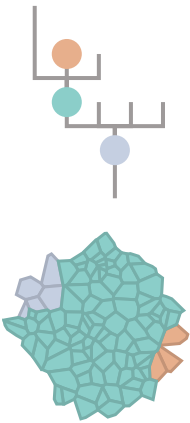


CRC29

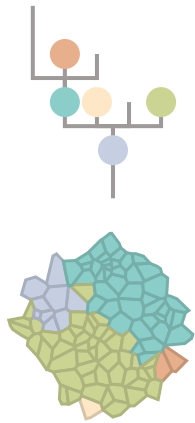


Gene	Cytoband	Type	Cluster
APC	5q22.2	SNV	1
BCL9L	11q23.3	SNV	1
NCOR2	12q24.31	SNV	1
TP53	17p13.1	SNV	1
FLT3	13q12.2	Amp	1
SRC	20q11.23	Amp	1
MAFB	20q12	Amp	1
PLCG1	20q12	Amp	1
NFATC2	20q13.2	Amp	1
SALL4	20q13.2	Amp	1
GNAS	20q13.32	Amp	1
PTK6	20q13.33	Amp	1
DDX5	17q23.3	Amp	2
SMAD3	15q22.33	SNV	4
LZTR1	22q11.21	InDel	NA
MUC4	3q29	Amp	NA
EGFR	7p11.2	Amp	NA
PLAG1	8q12.1	Amp	NA
PREX2	8q13.2	Amp	NA
NCOA2	8q13.3	Amp	NA
HEY1	8q21.13	Amp	NA
RUNX1T1	8q21.3	Amp	NA
CDH17	8q22.1	Amp	NA
PABPC1	8q22.3	Amp	NA
UBR5	8q22.3	Amp	NA
RAD21	8q24.11	Amp	NA
MYC	8q24.21	Amp	NA
RECQL4	8q24.3	Amp	NA
PPM1D	17q23.2	Amp	NA
CD79B	17q23.3	Amp	NA
AXIN1	16p13.3	Del	NA
PRKAR1A	17q24.2	Del	NA

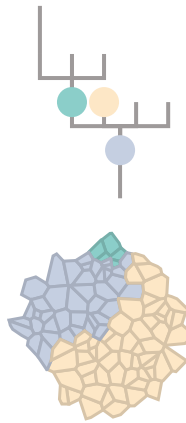
TR1



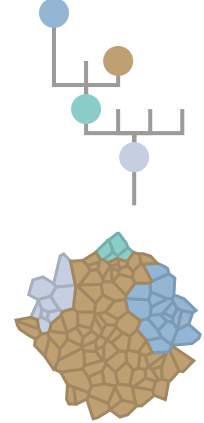
TR2



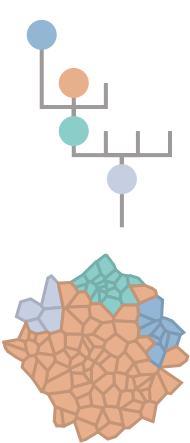
TR5



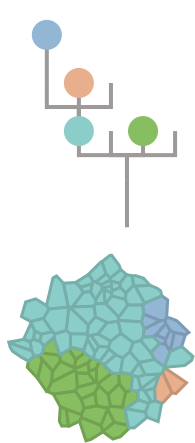
LN1



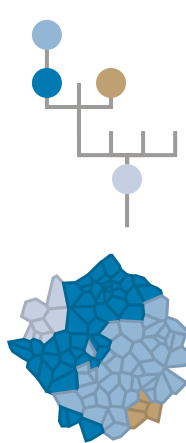
LN2



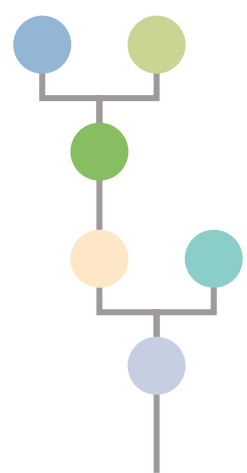
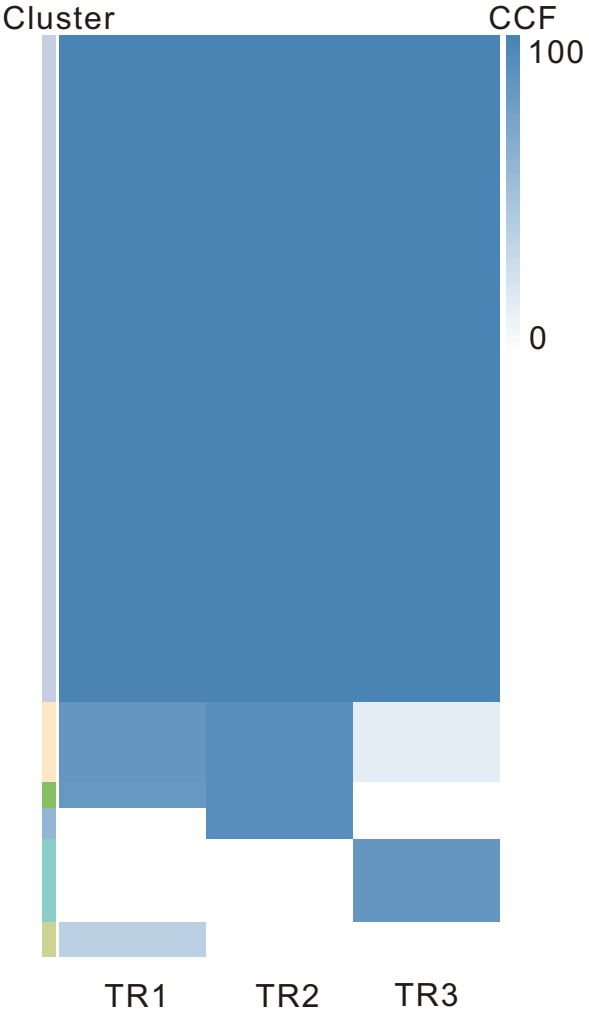
LN3



LN4

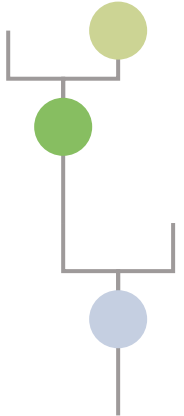


CRC30

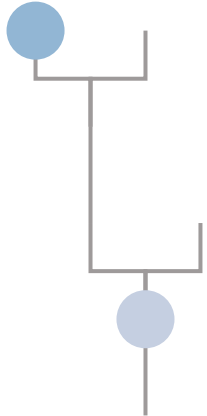


Gene	Cytoband	Type	Cluster
APC	5q22.2	SNV	1
PTPRB	12q15	SNV	1
TP53	17p13.1	SNV	1
IL7R	5p13.2	Amp	1
IKBKB	8p11.21	Amp	1
KAT6A	8p11.21	Amp	1
PLAG1	8q12.1	Amp	1
PREX2	8q13.2	Amp	1
NCOA2	8q13.3	Amp	1
HEY1	8q21.13	Amp	1
RUNX1T1	8q21.3	Amp	1
CDH17	8q22.1	Amp	1
PABPC1	8q22.3	Amp	1
UBR5	8q22.3	Amp	1
RAD21	8q24.11	Amp	1
MYC	8q24.21	Amp	1
RECQL4	8q24.3	Amp	1

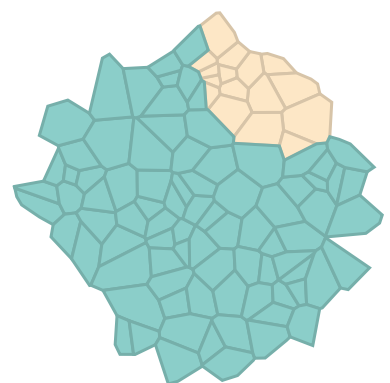
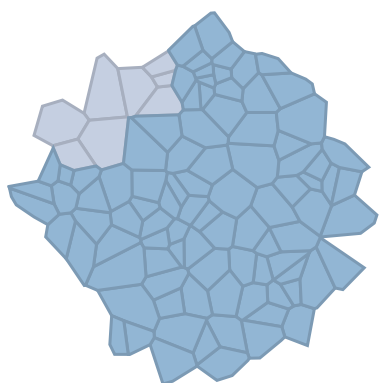
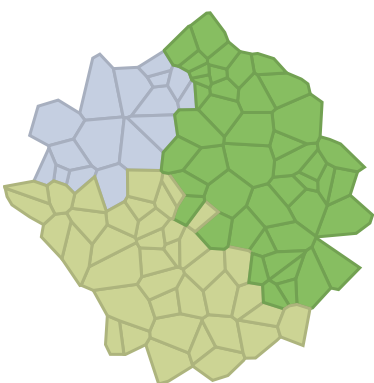
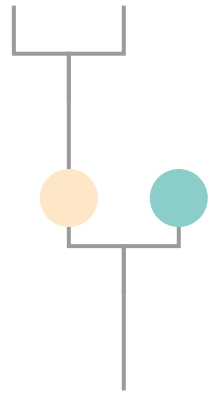
TR1



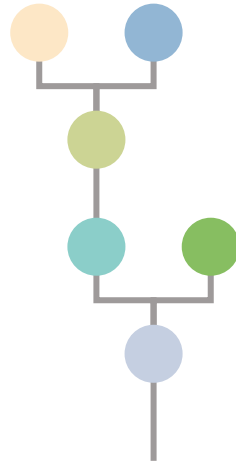
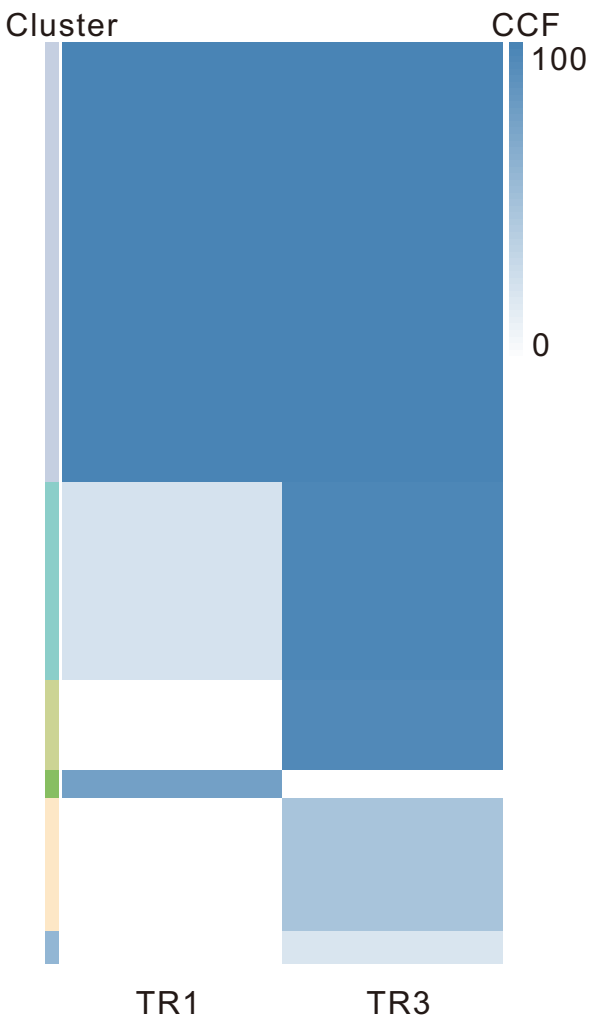
TR2



TR3

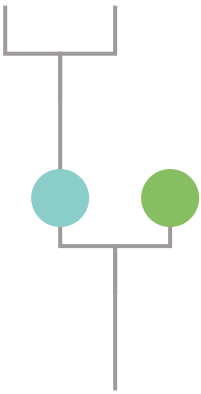


CRC31

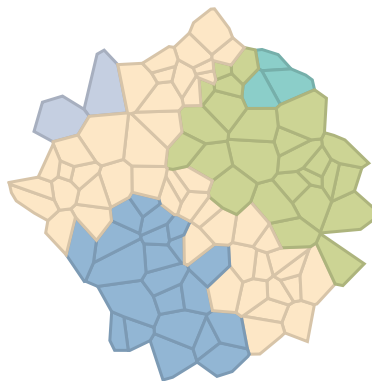
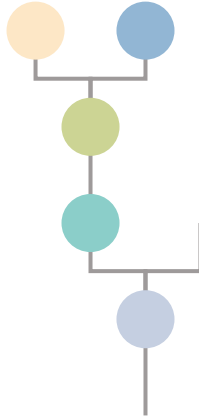


Gene	Cytoband	Type	Cluster
<i>APC</i>	5q22.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>ARID1A</i>	1p36.11	SNV	2
<i>CLTCL1</i>	22q11.21	SNV	3

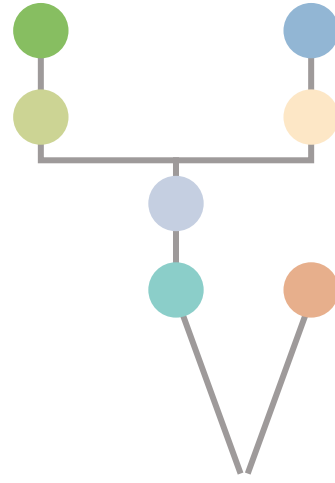
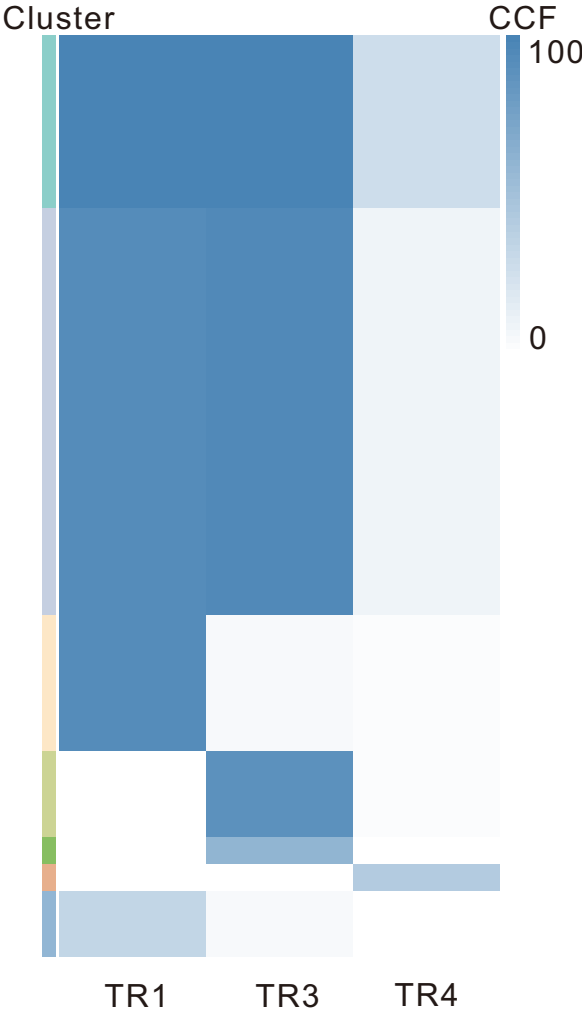
TR1



TR3

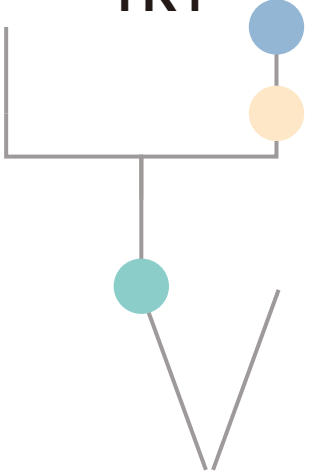


CRC32

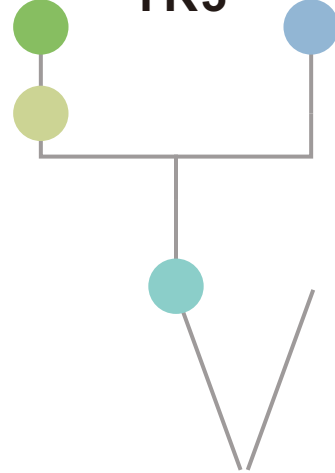


Gene	Cytoband	Type	Cluster
<i>APC</i>	5q22.2	InDel	1
<i>TP53</i>	17p13.1	SNV	2
<i>ATM</i>	11q22.3	InDel	2
<i>CSMD3</i>	8q23.3	SNV	3
<i>IRS4</i>	Xq22.3	SNV	NA
<i>KMT2D</i>	12q13.12	InDel	NA

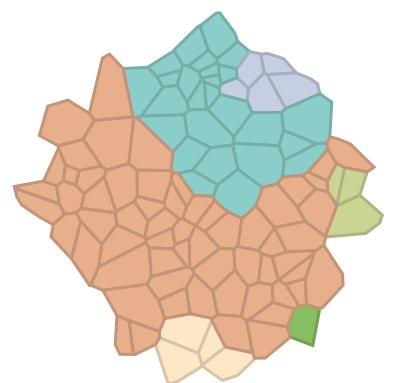
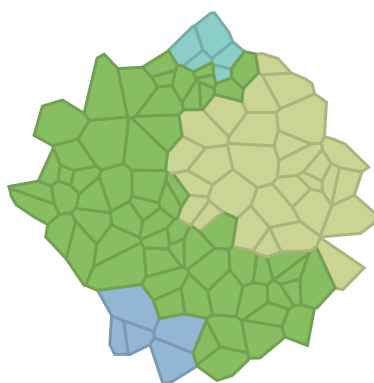
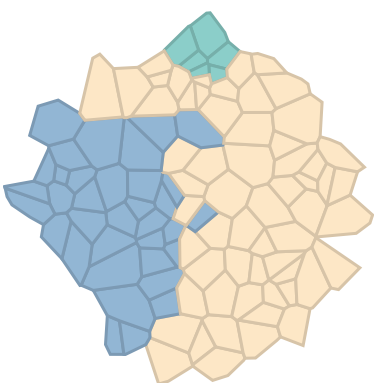
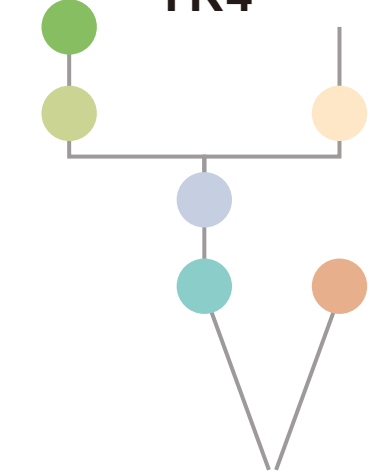
TR1



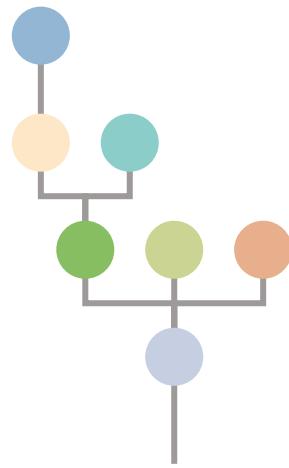
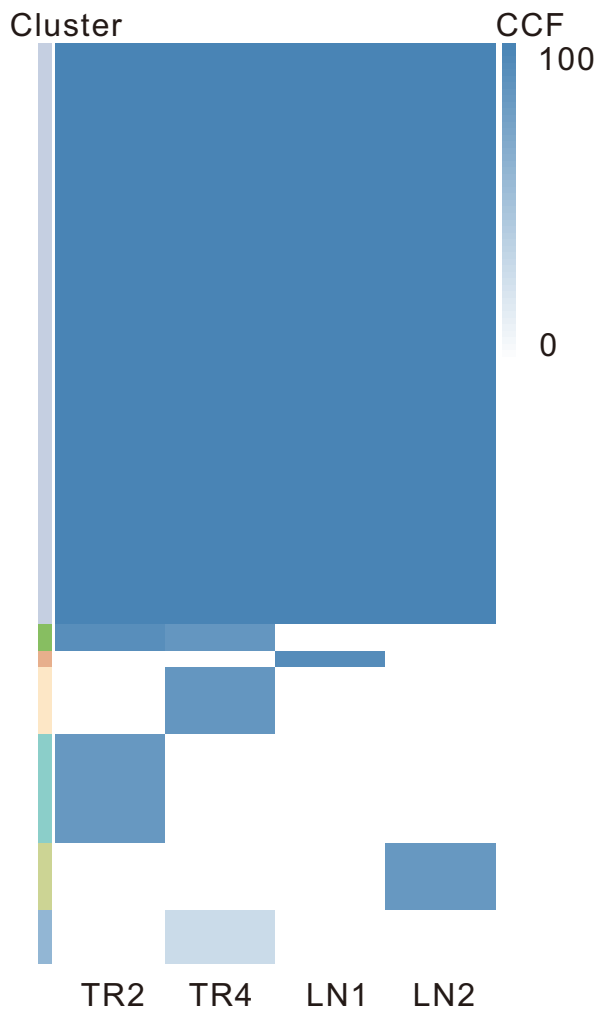
TR3



TR4

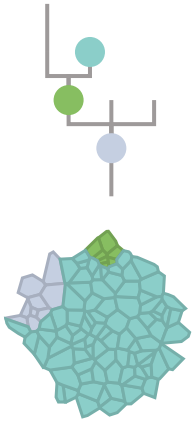


CRC33

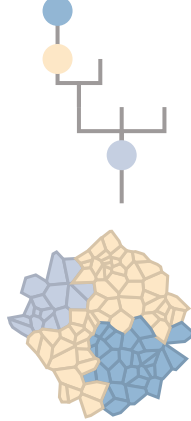


Gene	Cytoband	Type	Cluster
<i>TP53</i>	17p13.1	SNV	1
<i>JAK3</i>	19p13.11	SNV	1
<i>APC</i>	5q22.2	InDel	1
<i>FLT3</i>	13q12.2	Amp	1
<i>FOXO1</i>	13q14.11	Amp	1
<i>CYSLTR2</i>	13q14.2	Amp	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1
<i>NRG1</i>	8p12	SNV	4
<i>EGFR</i>	7p11.2	Amp	4
<i>IRS4</i>	Xq22.3	InDel	NA

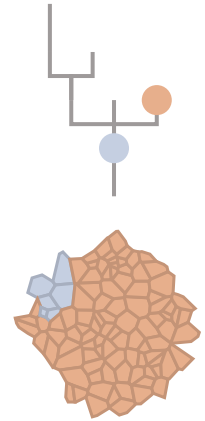
TR2



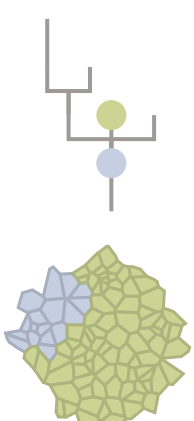
TR4



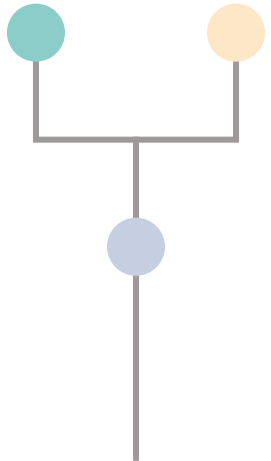
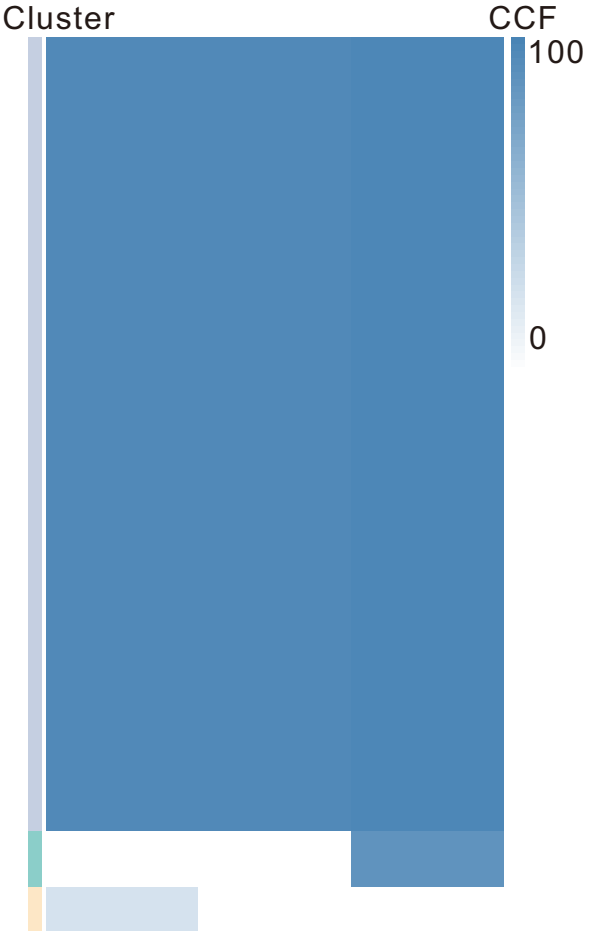
LN1



LN2



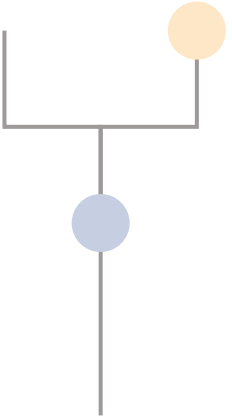
CRC34



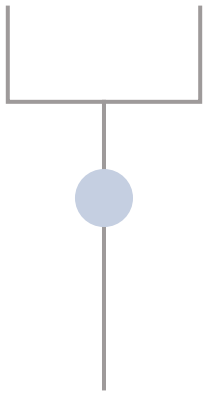
Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
* APC	5q22.2	SNV	1
KRAS	12p12.1	SNV	1
TP53	17p13.1	SNV	1
CSMD3	8q23.3	InDel	1
AR	Xq12	SNV	NA

TR1 TR4 L1_ENTD

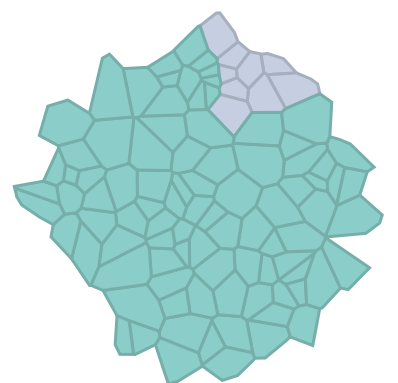
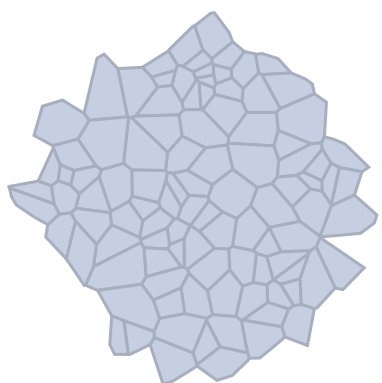
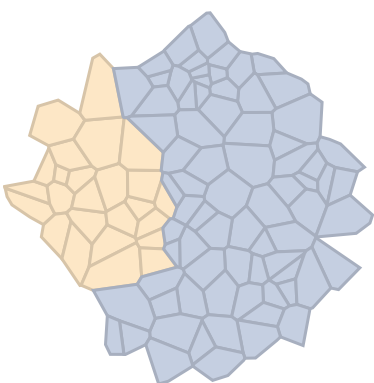
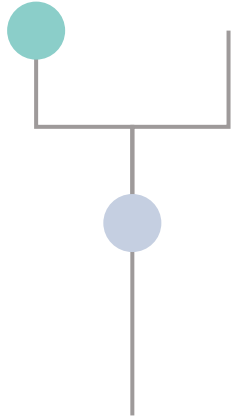
TR1



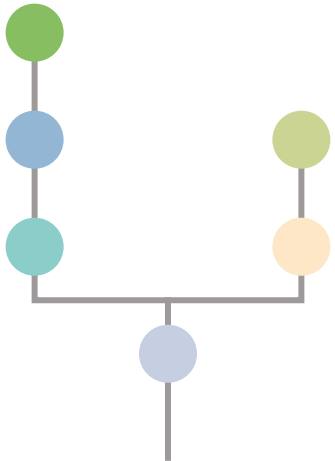
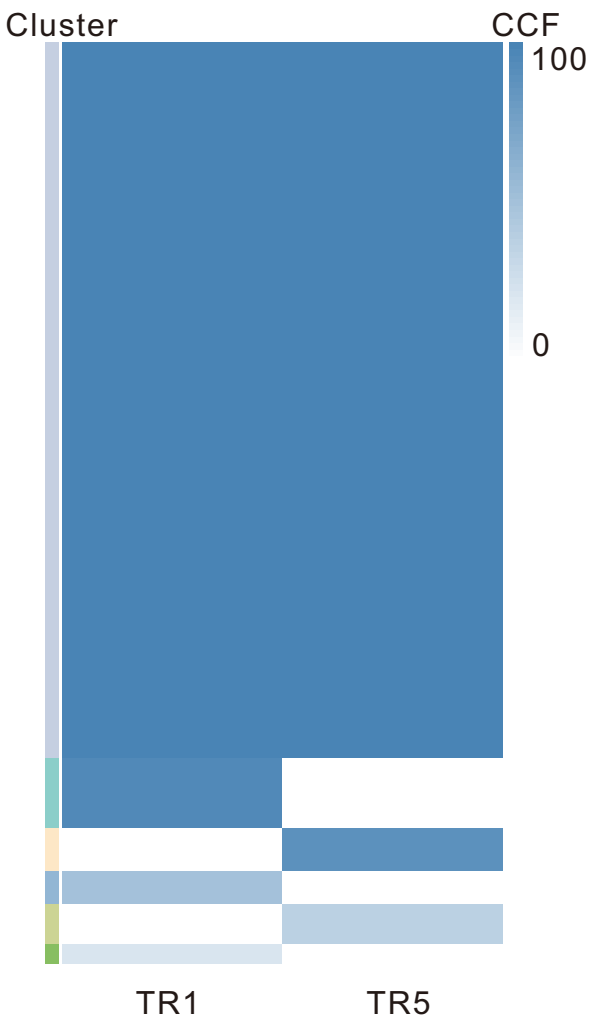
TR4



LN1_ENTD

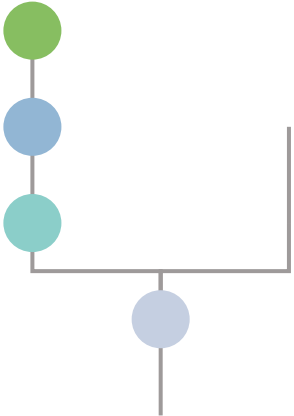


CRC35

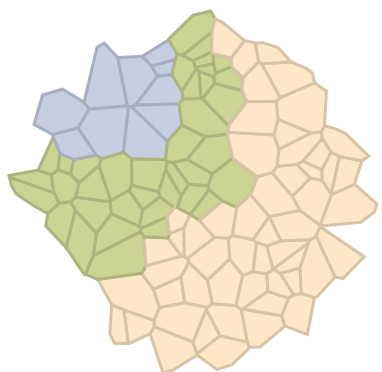
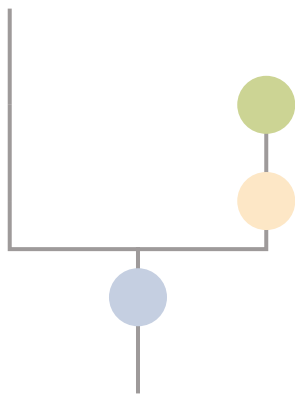


Gene	Cytoband	Type	Cluster
APC	5q22.2	SNV	1
ATM	11q22.3	SNV	1
KRAS	12p12.1	SNV	1
POLG	15q26.1	SNV	1
TP53	17p13.1	SNV	1
IL7R	5p13.2	Amp	1
CTNND2	5p15.2	Amp	1
TERT	5p15.33	Amp	1
SSX2	Xp11.22	Amp	1
ARAF	Xp11.23	Amp	1
GATA1	Xp11.23	Amp	1
SSX1	Xp11.23	Amp	1
SSX4	Xp11.23	Amp	1
TFE3	Xp11.23	Amp	1
WAS	Xp11.23	Amp	1
KDM6A	Xp11.3	Amp	1

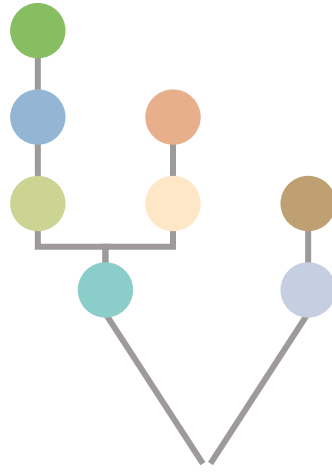
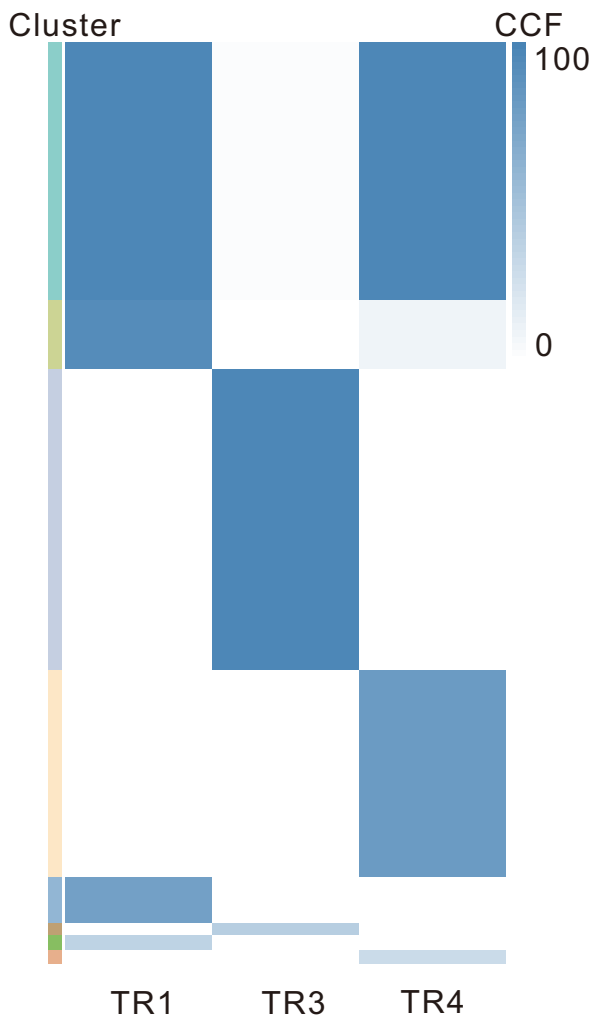
TR1



TR5

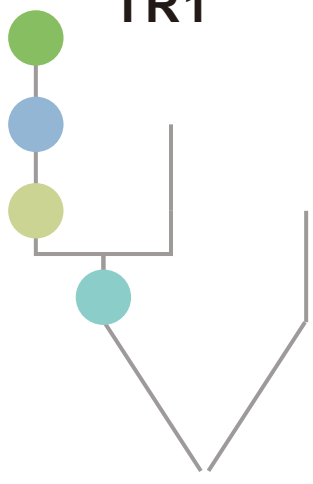


CRC36

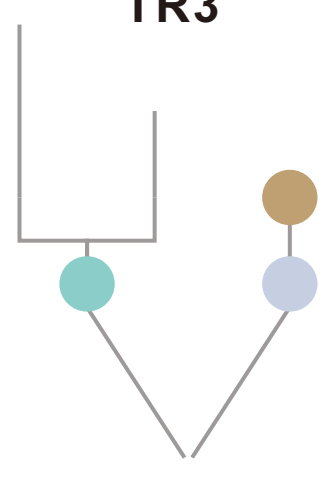


Gene	Cytoband	Type	Cluster
<i>FBXO11</i>	2p16.3	SNV	1
<i>FBXW7</i>	4q31.3	SNV	1
* <i>APC</i>	5q22.2	SNV	1
<i>WRN</i>	8p12	SNV	1
<i>ATM</i>	11q22.3	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
* <i>TP53</i>	17p13.1	SNV	1
* <i>TP53</i>	17p13.1	SNV	1
<i>PTPRT</i>	20q12	SNV	1
<i>ERBB4</i>	2q34	SNV	2
* <i>APC</i>	5q22.2	SNV	2
<i>ABI1</i>	10p12.1	SNV	2
* <i>CREBBP</i>	16p13.3	SNV	2
* <i>CREBBP</i>	16p13.3	SNV	2
* <i>TP53</i>	17p13.1	SNV	2
<i>LZTR1</i>	22q11.21	InDel	2
<i>NFATC2</i>	20q13.2	Amp	2
<i>SALL4</i>	20q13.2	Amp	2
<i>GNAS</i>	20q13.32	Amp	2
<i>RAC1</i>	7p22.1	Amp	3
<i>CARD11</i>	7p22.2	Amp	3
<i>SRC</i>	20q11.23	Amp	3
<i>MAFB</i>	20q12	Amp	3
<i>PLCG1</i>	20q12	Amp	3
<i>KMT2C</i>	7q36.1	SNV	4
<i>PTK6</i>	20q13.33	Amp	4
<i>ZFH3</i>	16q22.3	SNV	5
<i>LRIG3</i>	12q14.1	SNV	7
<i>LARP4B</i>	10p15.3	InDel	8
<i>BCOR</i>	Xp11.4	SNV	NA

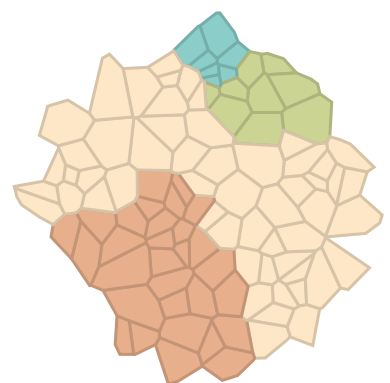
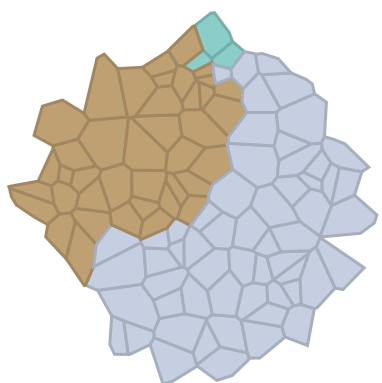
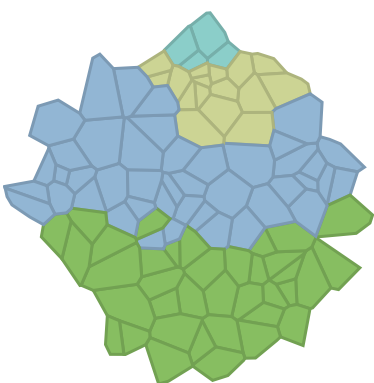
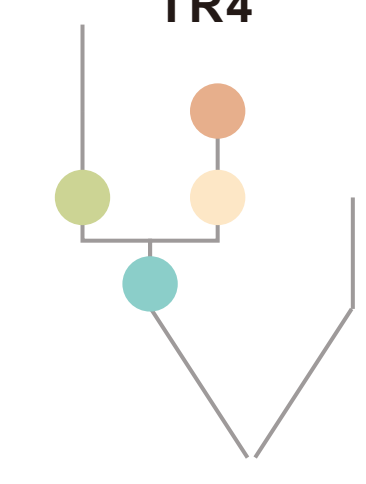
TR1



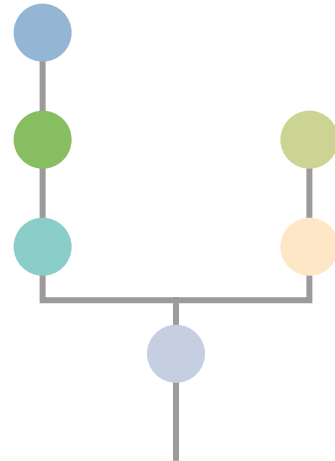
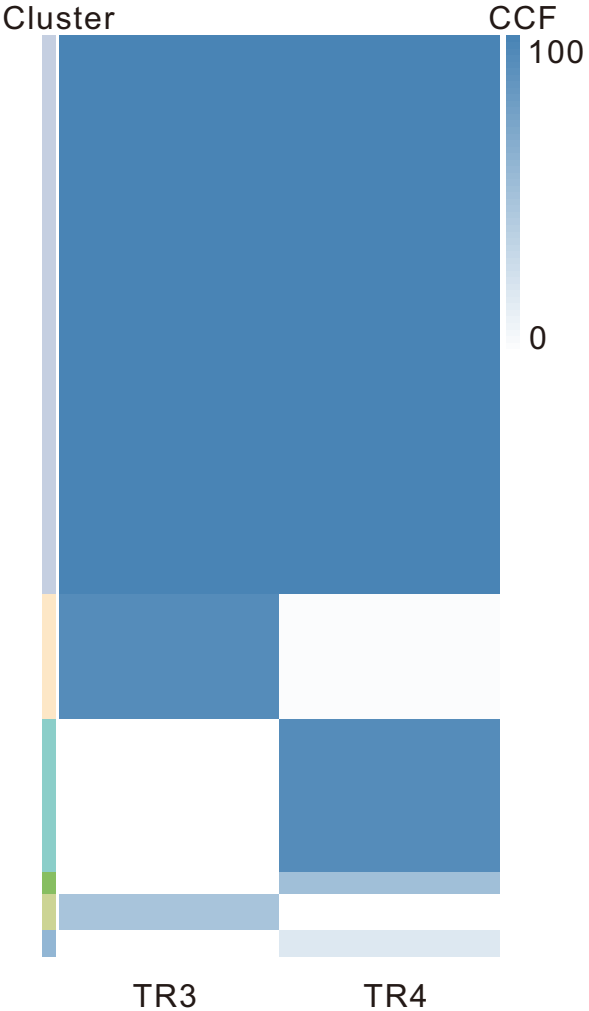
TR3



TR4

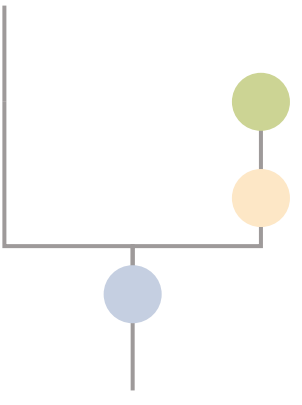


CRC37

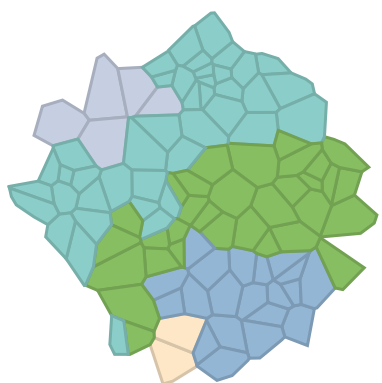
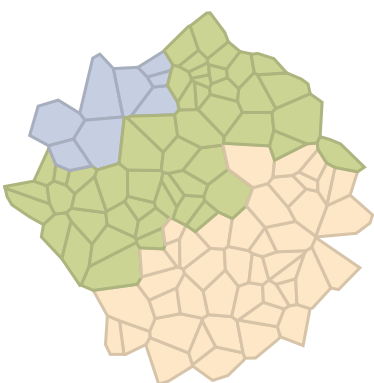
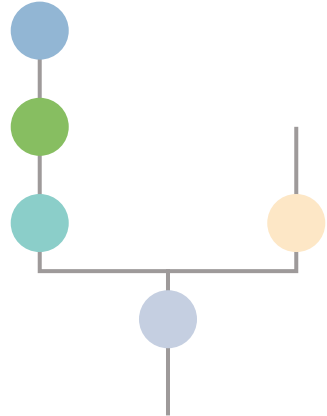


Gene	Cytoband	Type	Cluster
* TP53	17p13.1	SNV	1
* TP53	17p13.1	SNV	1
* APC	5q22.2	InDel	1
FLT3	13q12.2	Amp	1
SRC	20q11.23	Amp	1
MAFB	20q12	Amp	1
PLCG1	20q12	Amp	1
NFATC2	20q13.2	Amp	1
SALL4	20q13.2	Amp	1
GNAS	20q13.32	Amp	1
PTK6	20q13.33	Amp	1
* APC	5q22.2	InDel	NA

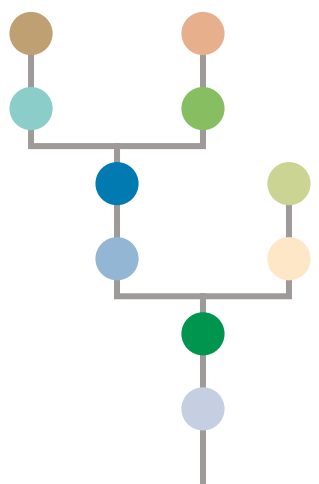
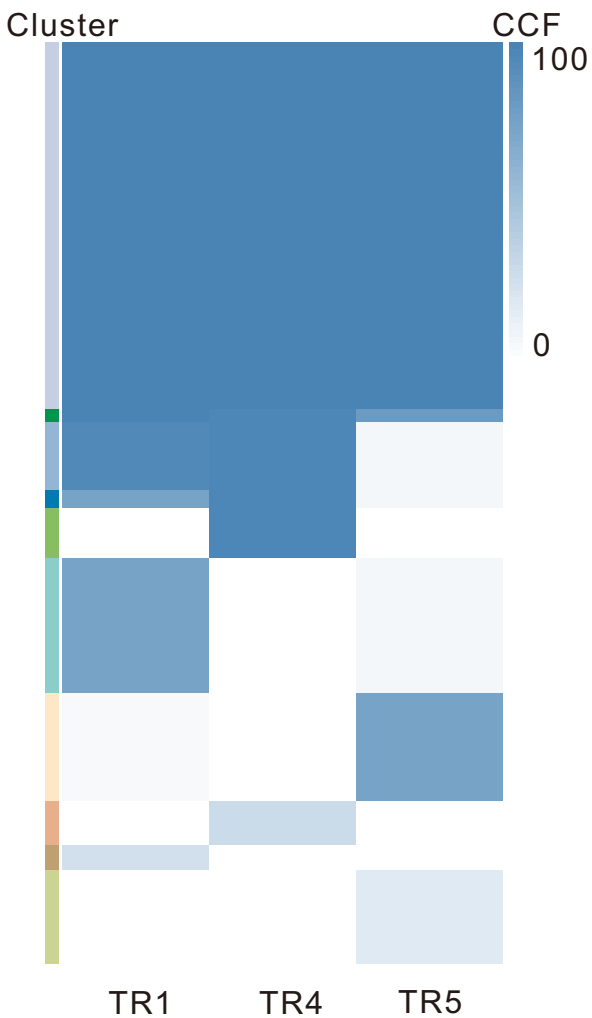
TR3



TR4

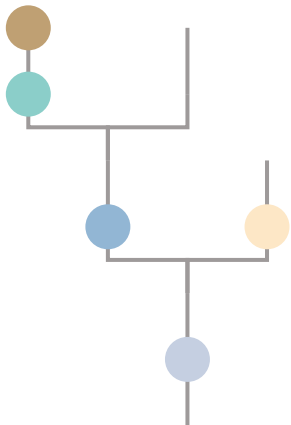


CRC38

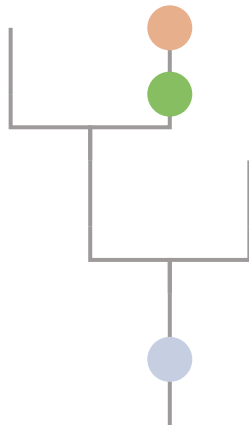


Gene	Cytoband	Type	Cluster
ATM	11q22.3	SNV	1
ZFHX3	16q22.3	SNV	1
TP53	17p13.1	SNV	1
SMAD4	18q21.2	SNV	1
CCND3	6p21.1	Amp	1
TFEB	6p21.1	Amp	1
IKBKB	8p11.21	Amp	1
KAT6A	8p11.21	Amp	1
RAD51B	14q24.1	SNV	2
NCOR1	17p11.2	SNV	4
KRAS	12p12.1	SNV	10

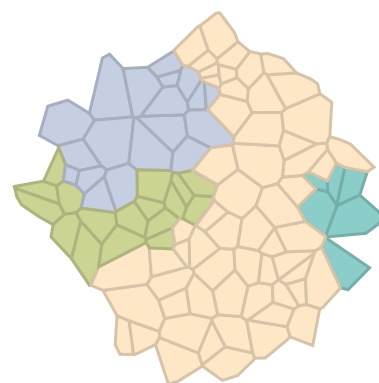
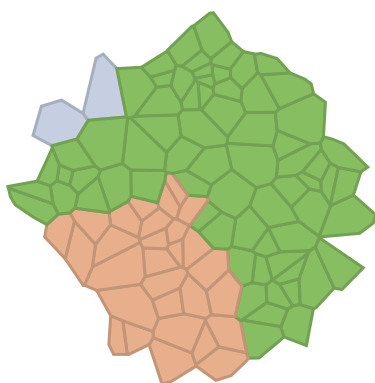
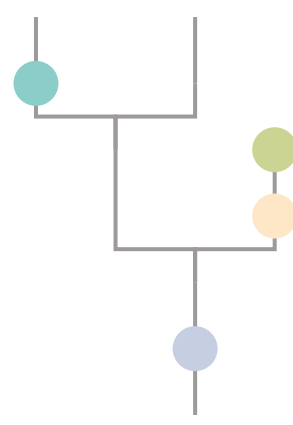
TR1



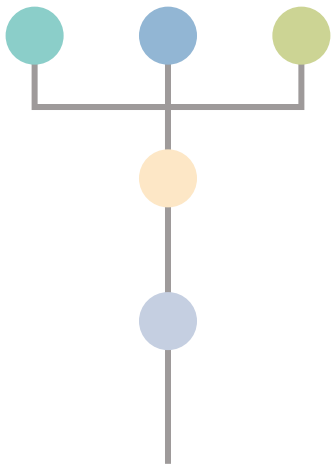
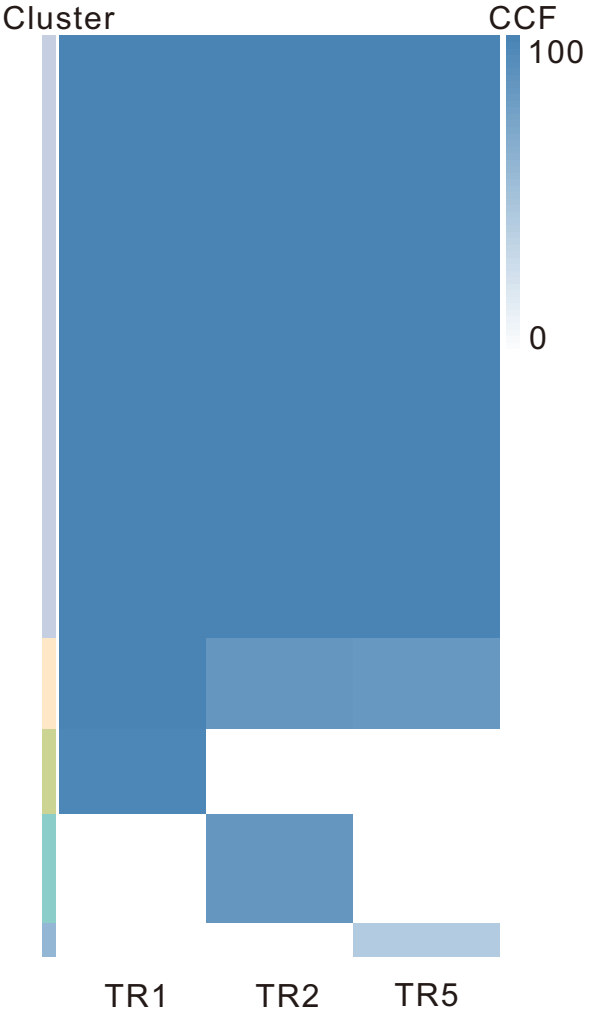
TR4



TR5

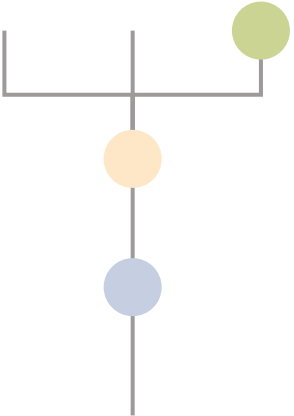


CRC39

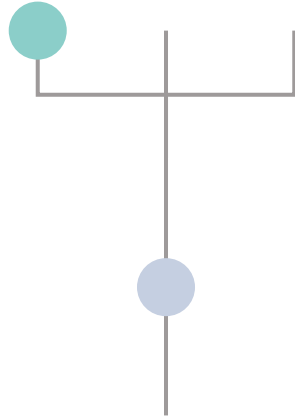


Gene	Cytoband	Type	Cluster
<i>TP53</i>	17p13.1	SNV	1
<i>MAP3K1</i>	5q11.2	InDel	1
<i>ATM</i>	11q22.3	InDel	1
<i>FLT3</i>	13q12.2	Amp	1
<i>FOXO1</i>	13q14.11	Amp	1
<i>CYSLTR2</i>	13q14.2	Amp	1
<i>KRAS</i>	12p12.1	SNV	3
<i>FBXW7</i>	4q31.3	SNV	NA
<i>IRS4</i>	Xq22.3	Amp	NA
<i>BCORL1</i>	Xq26.1	Amp	NA
<i>ELF4</i>	Xq26.1	Amp	NA
<i>GPC3</i>	Xq26.2	Amp	NA

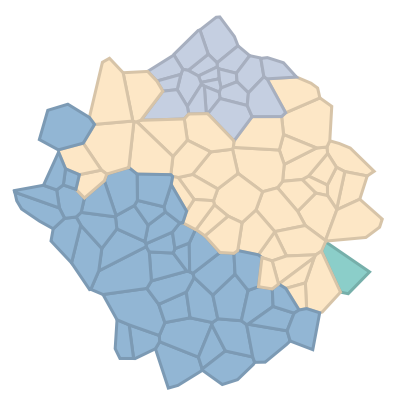
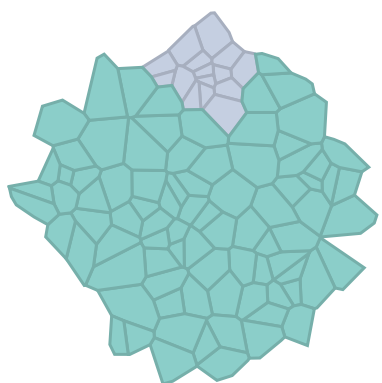
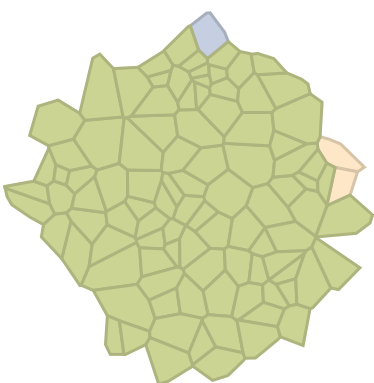
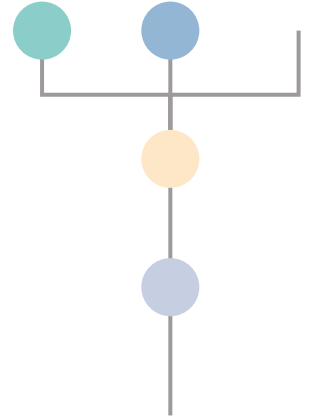
TR1



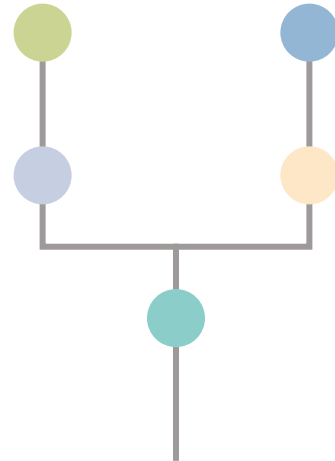
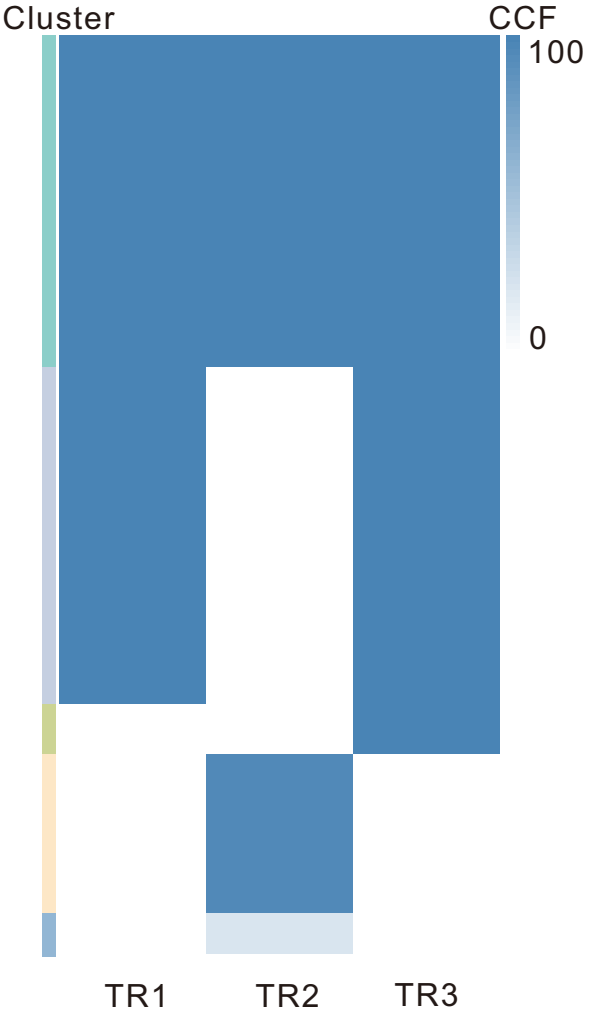
TR2



TR5

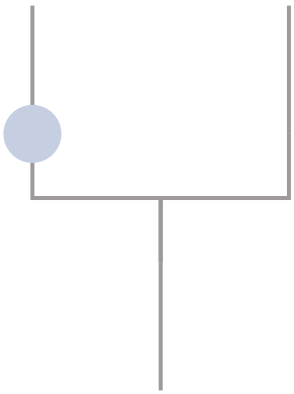


CRC40

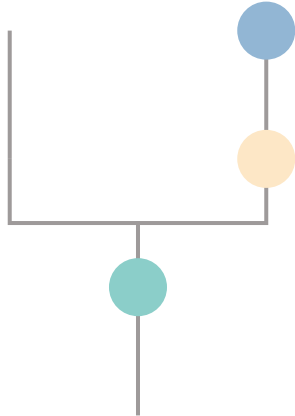


Gene	Cytoband	Type	Cluster
<i>PIK3CA</i>	3q26.32	SNV	1
<i>TCF7L2</i>	10q25.3	SNV	1
<i>LZTR1</i>	22q11.21	InDel	1
<i>*APC</i>	5q22.2	SNV	2
<i>*APC</i>	5q22.2	SNV	2
<i>KRAS</i>	12p12.1	SNV	2
<i>ARID1A</i>	1p36.11	InDel	2
<i>ELF3</i>	1q32.1	InDel	2
<i>KMT2C</i>	7q36.1	SNV	3
<i>NDRG1</i>	8q24.22	SNV	3
<i>GNAS</i>	20q13.32	SNV	3
<i>MED12</i>	Xq13.1	SNV	NA
<i>RECQL4</i>	8q24.3	Amp	NA
<i>RUNX1</i>	21q22.12	Del	NA
<i>SMARCB1</i>	22q11.23	Del	NA
<i>CHEK2</i>	22q12.1	Del	NA
<i>ZNRF3</i>	22q12.1	Del	NA
<i>NF2</i>	22q12.2	Del	NA
<i>MYH9</i>	22q12.3	Del	NA
<i>APOBEC3B</i>	22q13.1	Del	NA
<i>EP300</i>	22q13.2	Del	NA
<i>MKL1</i>	22q13.2	Del	NA

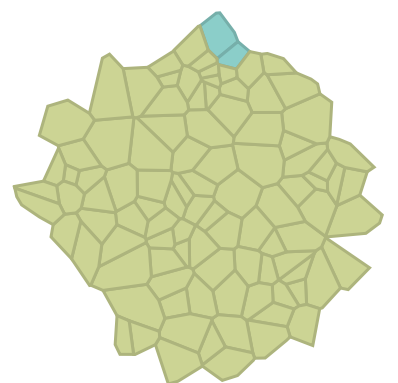
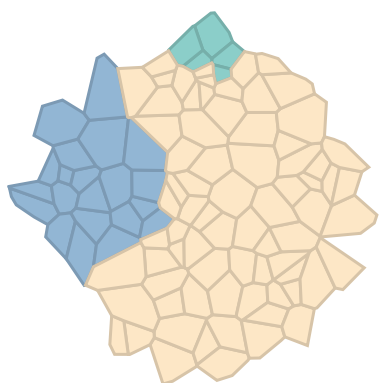
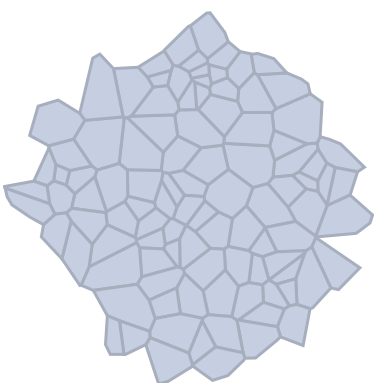
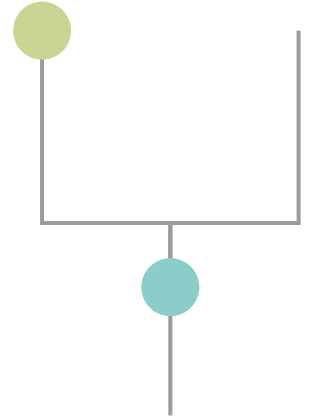
TR1



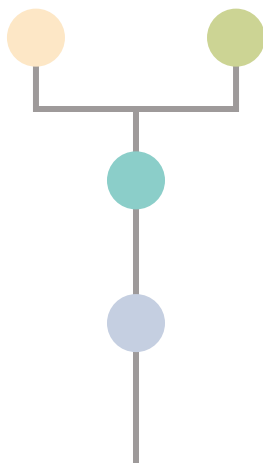
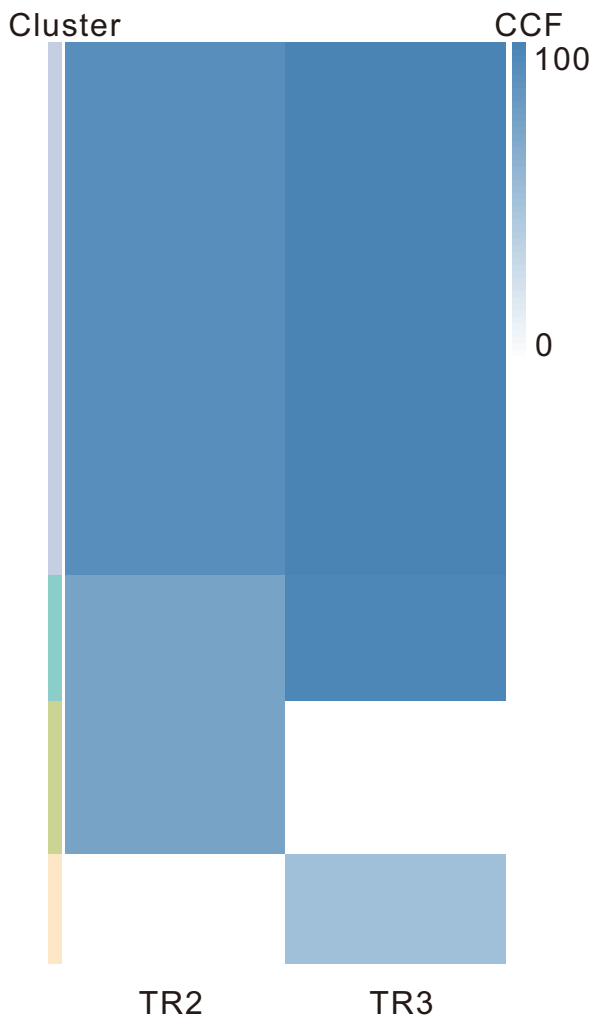
TR2



TR3

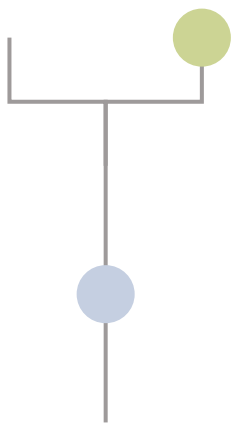


CRC41

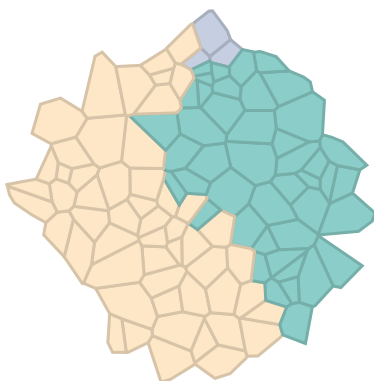
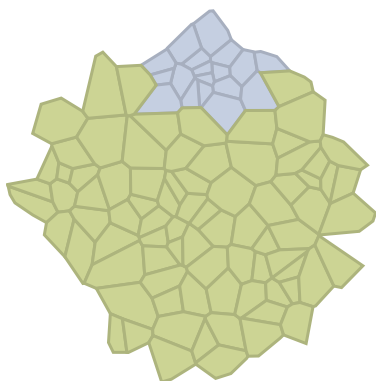
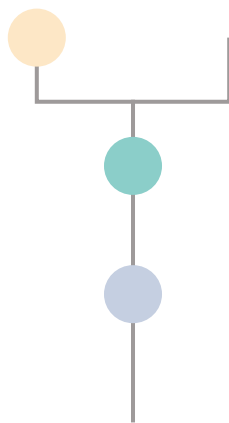


Gene	Cytoband	Type	Cluster
TCF7L2	10q25.3	SNV	1
TP53	17p13.1	SNV	1
FBXW7	4q31.3	InDel	1
LZTR1	22q11.21	InDel	1
IKBKB	8p11.21	Amp	1
KAT6A	8p11.21	Amp	1
FGFR1	8p11.23	Amp	1
ARID1A	1p36.11	SNV	2
SRC	20q11.23	Amp	3
MAFB	20q12	Amp	3
PLCG1	20q12	Amp	3
NFATC2	20q13.2	Amp	3
SALL4	20q13.2	Amp	3
GNAS	20q13.32	Amp	3
PTK6	20q13.33	Amp	3
RUNX1	21q22.12	Del	4
SMARCB1	22q11.23	Del	4
CHEK2	22q12.1	Del	4
ZNRF3	22q12.1	Del	4
NF2	22q12.2	Del	4
MYH9	22q12.3	Del	4
APOBEC3B	22q13.1	Del	4
EP300	22q13.2	Del	4
MKL1	22q13.2	Del	4
KDM5C	Xp11.22	Del	4
SMC1A	Xp11.22	Del	4
GATA1	Xp11.23	Del	4
RBM10	Xp11.23	Del	4
KDM6A	Xp11.3	Del	4
BCOR	Xp11.4	Del	4
DDX3X	Xp11.4	Del	4
ZRSR2	Xp22.2	Del	4
FOXO4	Xq13.1	Del	4
MED12	Xq13.1	Del	4
ZMYM3	Xq13.1	Del	4
ATRX	Xq21.1	Del	4
BTK	Xq22.1	Del	4
IRS4	Xq22.3	Del	4
STAG2	Xq25	Del	4
BCORL1	Xq26.1	Del	4
ELF4	Xq26.1	Del	4
GPC3	Xq26.2	Del	4
PHF6	Xq26.2	Del	4
ATP2B3	Xq28	Del	4
RPL10	Xq28	Del	4
AR	Xq12	SNV	NA
FBXW7	4q31.3	InDel	NA

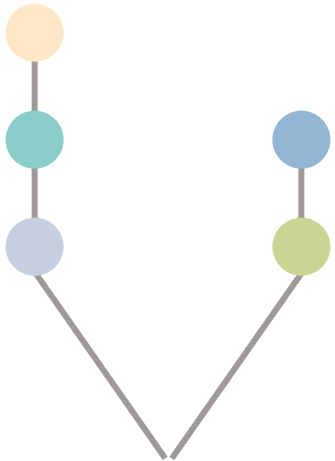
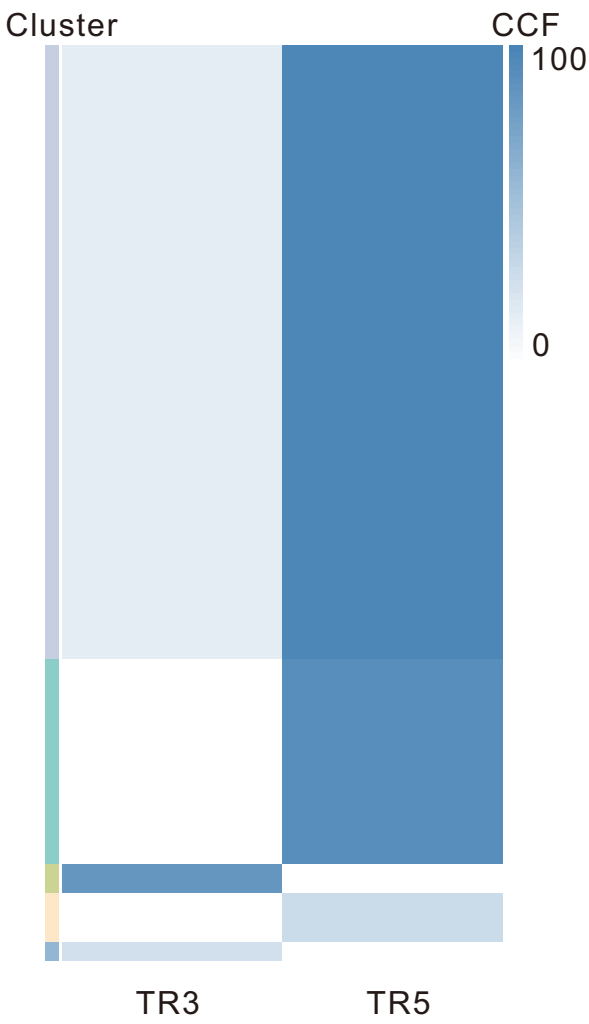
TR2



TR3

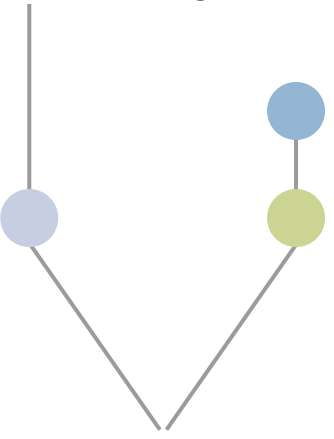


CRC42

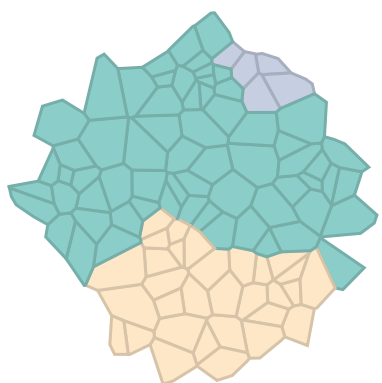
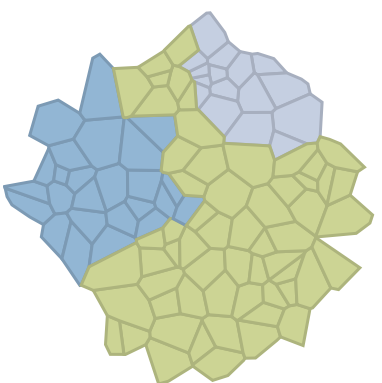
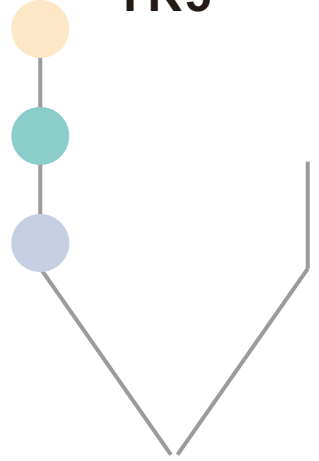


Gene	Cytoband	Type	Cluster
<i>TP53</i>	17p13.1	SNV	1
<i>DNM2</i>	19p13.2	SNV	1
<i>PTPRT</i>	20q12	SNV	1
<i>PABPC1</i>	8q22.3	InDel	1
<i>FAT1</i>	4q35.2	Del	1
<i>EXT2</i>	11p11.2	SNV	3

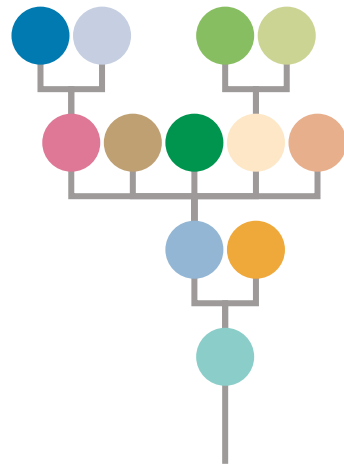
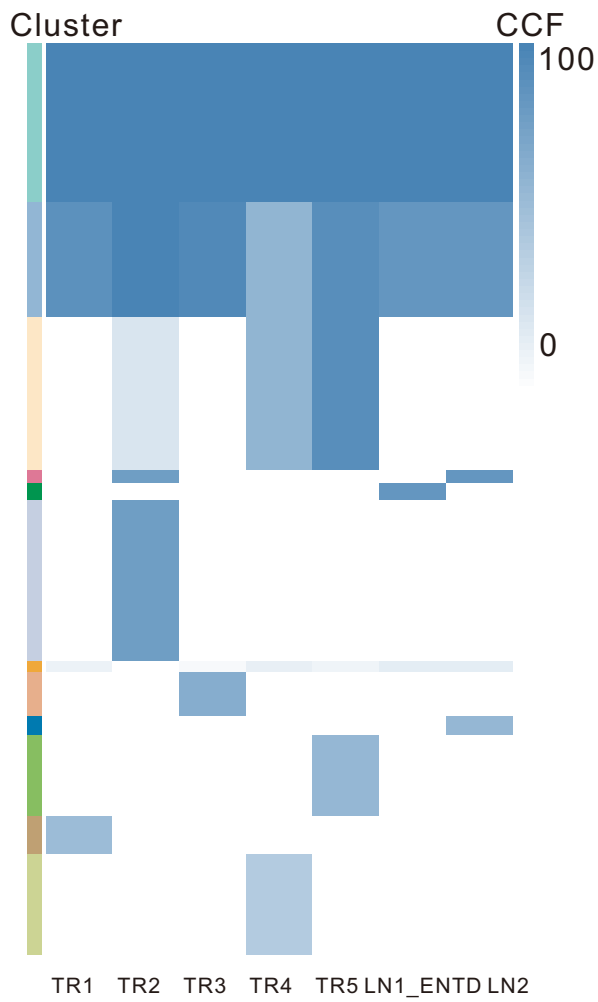
TR3



TR5

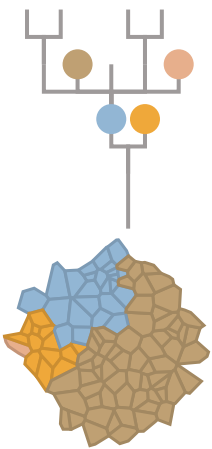


CRC43

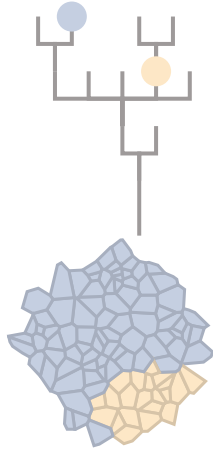


Gene	Cytoband	Type	Cluster
<i>LRP1B</i>	2q22.1	SNV	1
<i>IRF4</i>	6p25.3	SNV	1
<i>FBXW7</i>	4q31.3	SNV	2
<i>APC</i>	5q22.2	SNV	2
<i>BRAF</i>	7q34	SNV	2
<i>CNTNAP2</i>	7q35	SNV	2
<i>BCL9L</i>	11q23.3	SNV	2
<i>KRAS</i>	12p12.1	SNV	2
<i>ZNF521</i>	18q11.2	SNV	2
<i>ELF3</i>	1q32.1	SNV	5
<i>TP53</i>	17p13.1	SNV	5
<i>SMAD4</i>	18q21.2	SNV	5
<i>WNK2</i>	9q22.31	SNV	7
<i>FOXP1</i>	3p13	Amp	8
<i>MITF</i>	3p13	Amp	8

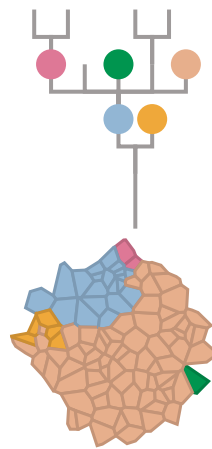
TR1



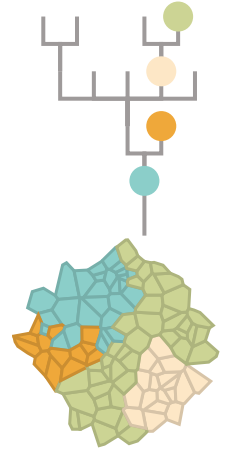
TR2



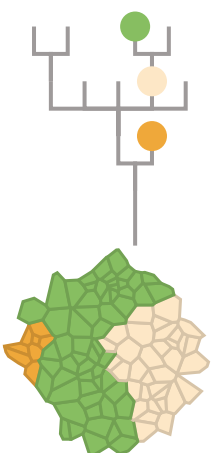
TR3



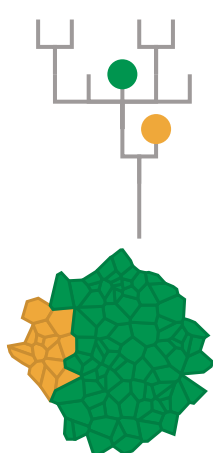
TR4



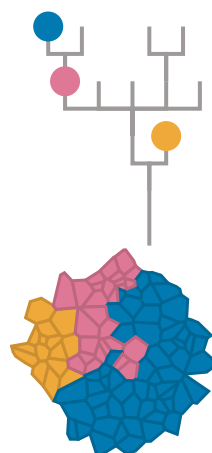
TR5



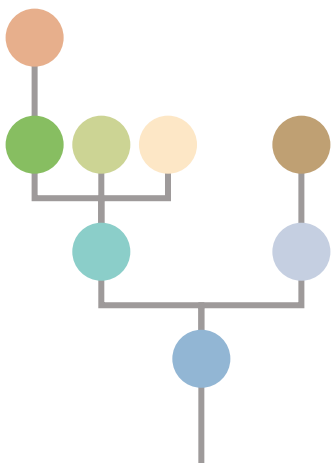
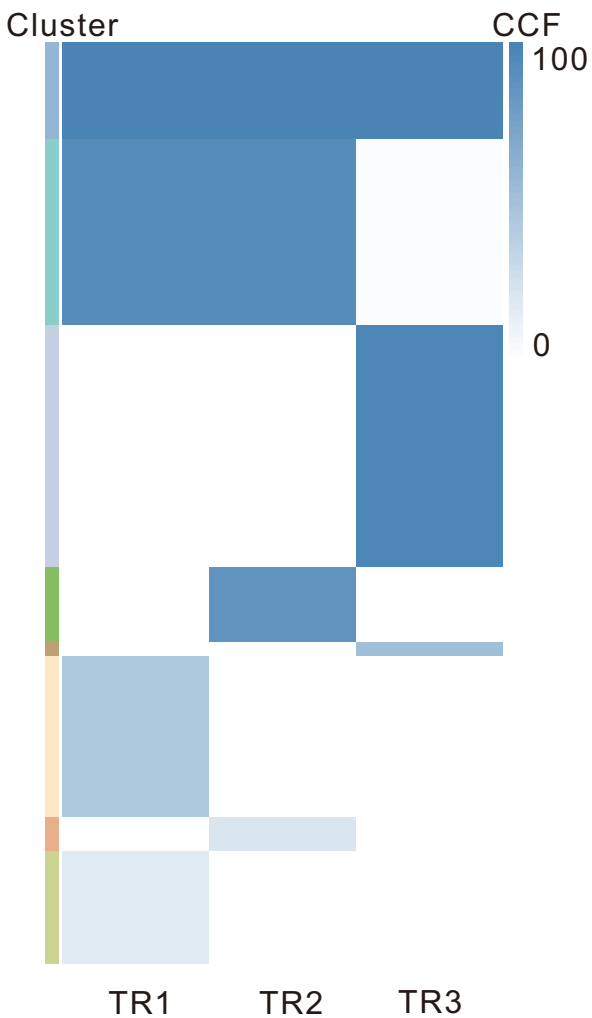
LN1_ENTD



LN2

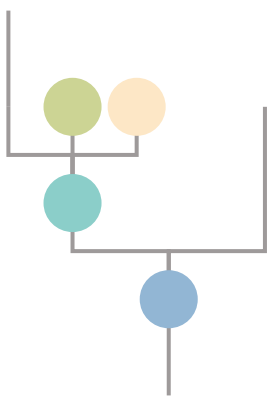


CRC44

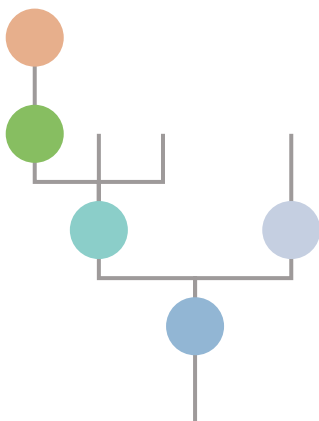


Gene	Cytoband	Type	Cluster
*FBXW7	4q31.3	SNV	1
TP53	17p13.1	SNV	1
FLT3	13q12.2	Amp	1
FOXO1	13q14.11	Amp	1
CYSLTR2	13q14.2	Amp	1
ARID1A	1p36.11	SNV	2
*FBXW7	4q31.3	SNV	2
KRAS	12p12.1	SNV	2
GNAS	20q13.32	SNV	4
MUTYH	1p34.1	SNV	5
APC	5q22.2	SNV	5
ACVR2A	2q22.3	SNV	7
LZTR1	22q11.21	InDel	NA
AMER1	Xq11.2	SNV	NA

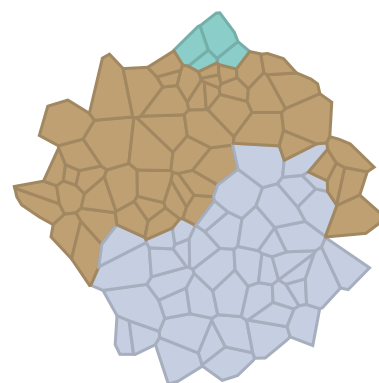
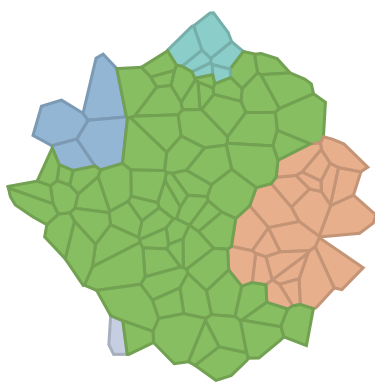
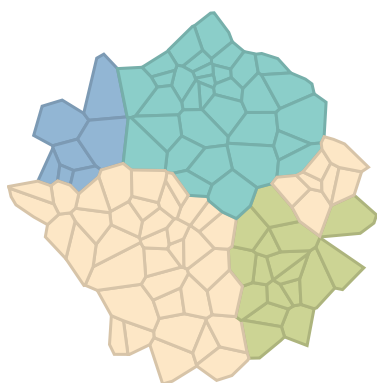
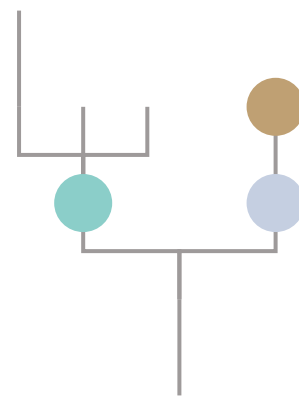
TR1



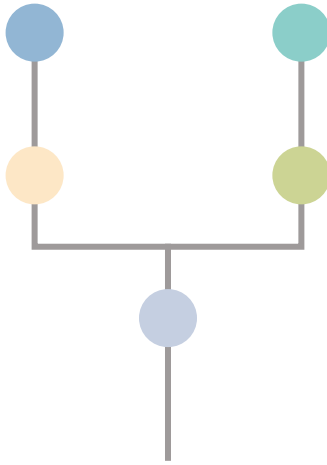
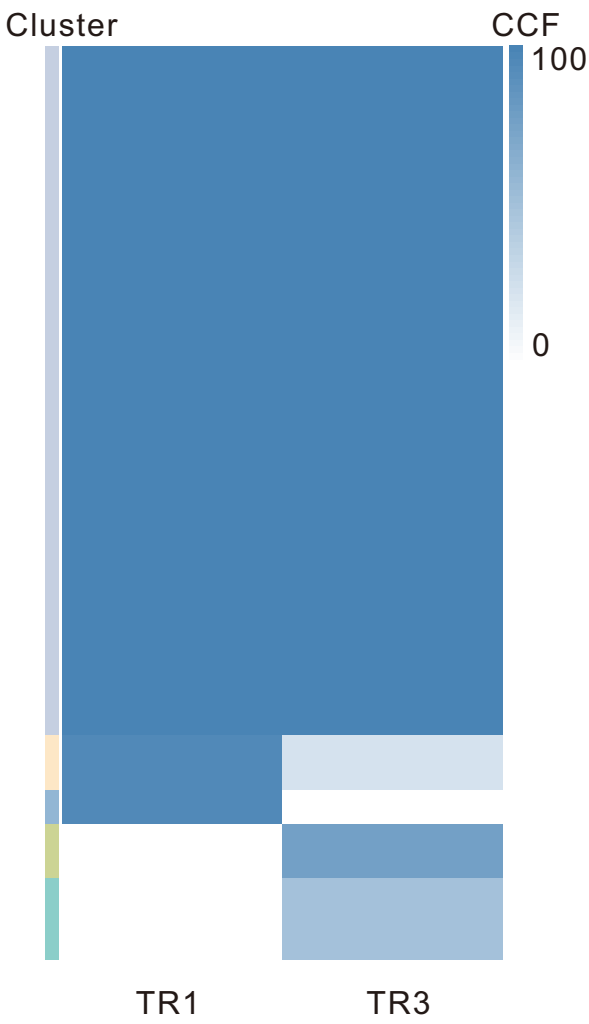
TR2



TR3

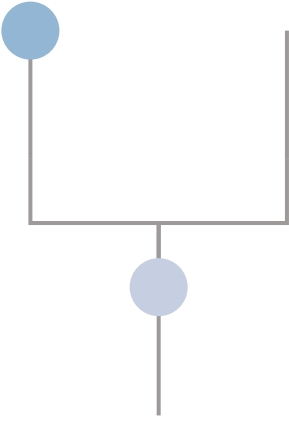


CRC45

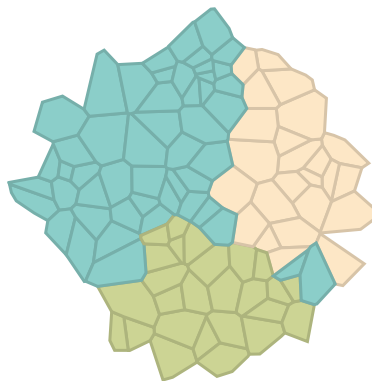
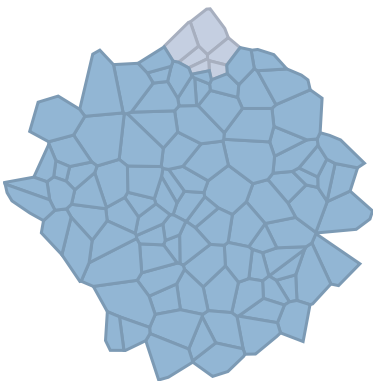
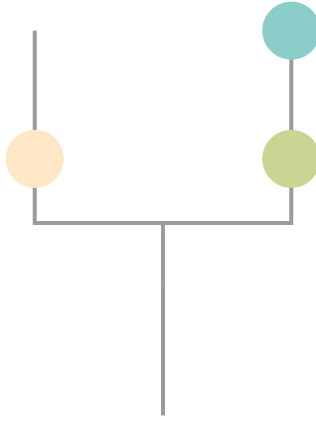


Gene	Cytoband	Type	Cluster
<i>APC</i>	5q22.2	SNV	1
<i>POT1</i>	7q31.33	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>FGFR1</i>	8p11.23	Amp	4

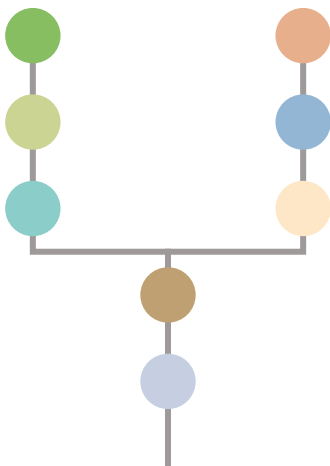
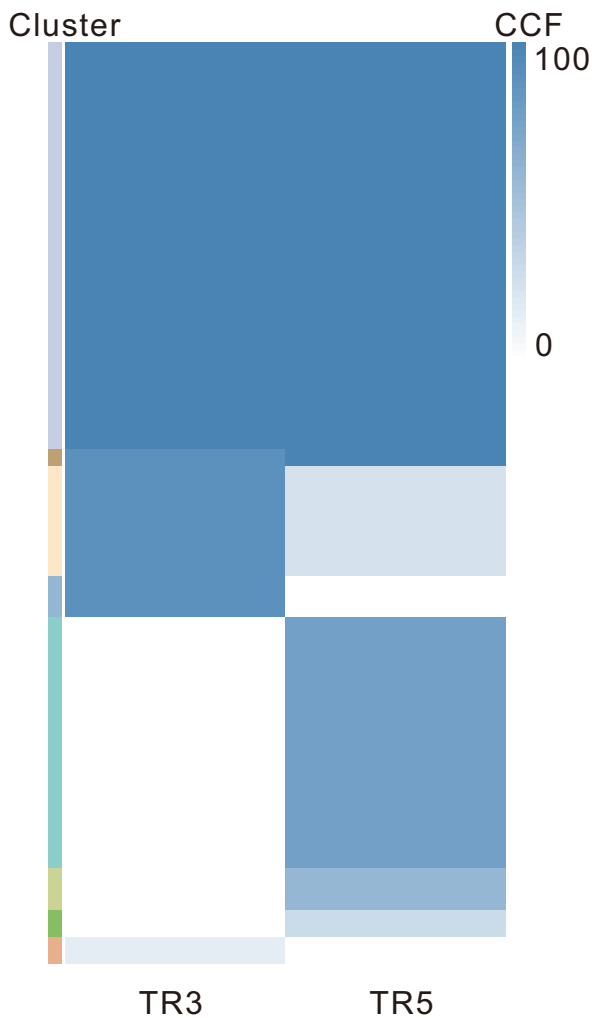
TR1



TR3

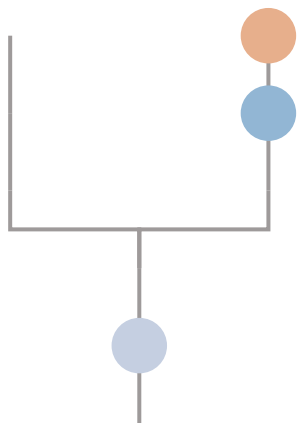


CRC46

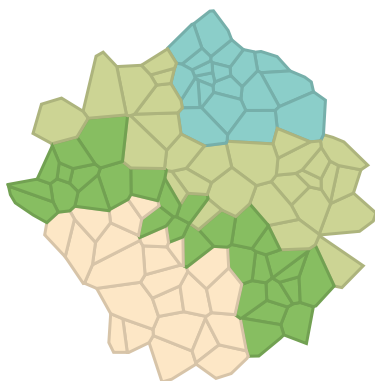
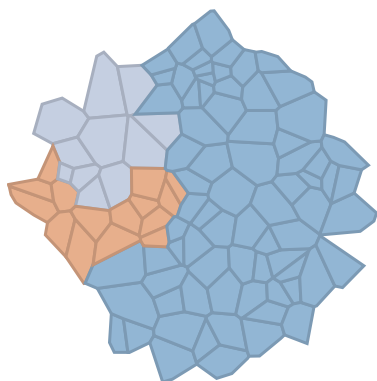
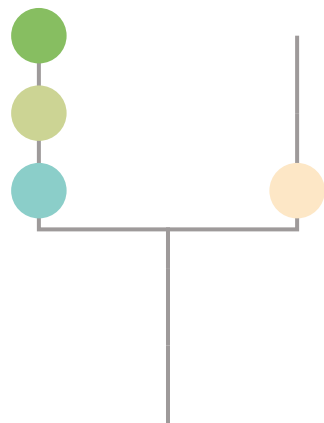


Gene	Cytoband	Type	Cluster
APC	5q22.2	SNV	1
* ATM	11q22.3	SNV	1
TBX3	12q24.21	SNV	1
ARID1A	1p36.11	InDel	1
NFE2L2	2q31.2	InDel	1
DDB2	11p11.2	InDel	1
* ATM	11q22.3	InDel	1
PLAG1	8q12.1	Amp	1
PREX2	8q13.2	Amp	1
NCOA2	8q13.3	Amp	1
HEY1	8q21.13	Amp	1
RUNX1T1	8q21.3	Amp	1
CDH17	8q22.1	Amp	1
PABPC1	8q22.3	Amp	1
UBR5	8q22.3	Amp	1
RAD21	8q24.11	Amp	1
MYC	8q24.21	Amp	1
RECQL4	8q24.3	Amp	1
FLT3	13q12.2	Amp	1
IRS4	Xq22.3	Amp	1
BCORL1	Xq26.1	Amp	1
ELF4	Xq26.1	Amp	1
GPC3	Xq26.2	Amp	1
EGFR	7p11.2	Amp	2
HNRNPA2B1	7p15.2	Amp	2
HOXA11	7p15.2	Amp	2
HOXA13	7p15.2	Amp	2
HOXA9	7p15.2	Amp	2
MACC1	7p21.1	Amp	2
ETV1	7p21.2	Amp	2
RAC1	7p22.1	Amp	2
CARD11	7p22.2	Amp	2
SSX2	Xp11.22	Amp	2
ARAF	Xp11.23	Amp	2
GATA1	Xp11.23	Amp	2
SSX1	Xp11.23	Amp	2
SSX4	Xp11.23	Amp	2
TFE3	Xp11.23	Amp	2
WAS	Xp11.23	Amp	2
KDM6A	Xp11.3	Amp	2
LRP1B	2q22.1	SNV	3
FOXO1	13q14.11	Amp	3
NTRK3	15q25.3	SNV	8
CYSLTR2	13q14.2	Amp	NA

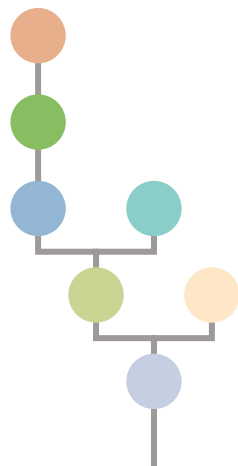
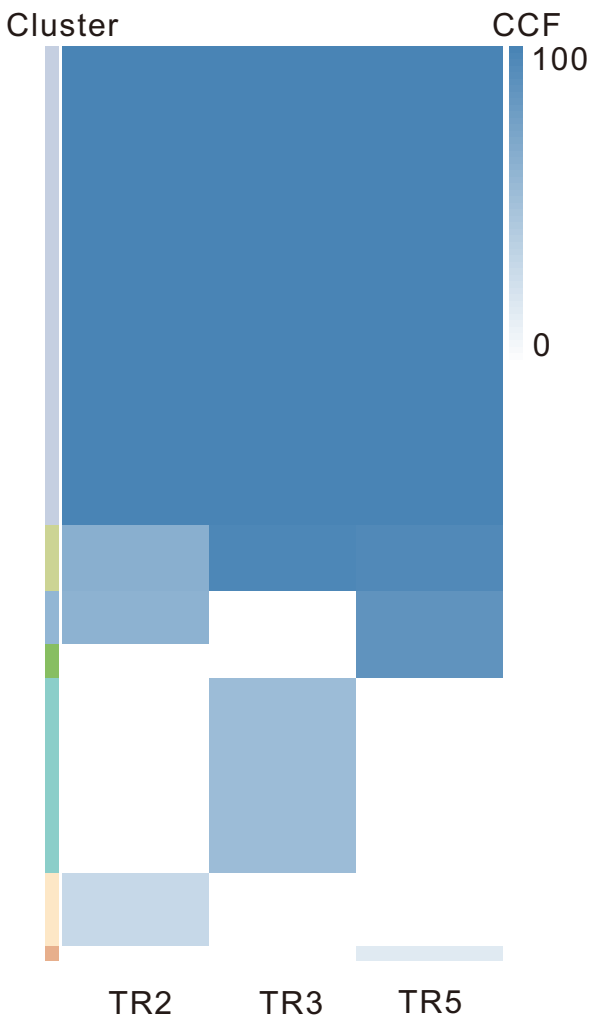
TR3



TR5

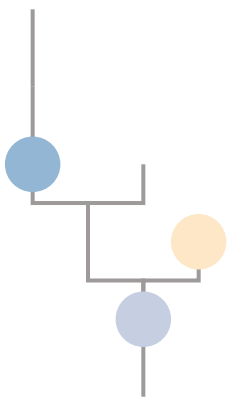


CRC47

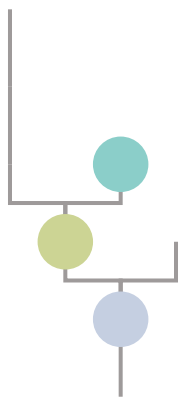


Gene	Cytoband	Type	Cluster
<i>APC</i>	5q22.2	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1
<i>SRC</i>	20q11.23	Amp	2
<i>PIK3CA</i>	3q26.32	SNV	5
<i>RBM10</i>	Xp11.23	InDel	NA

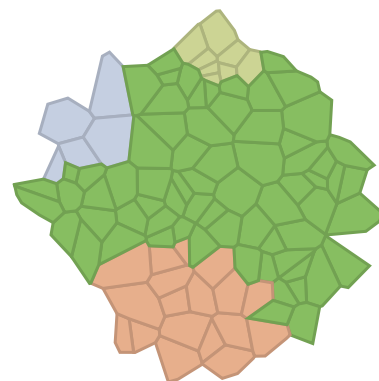
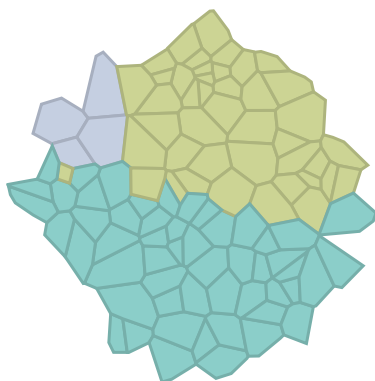
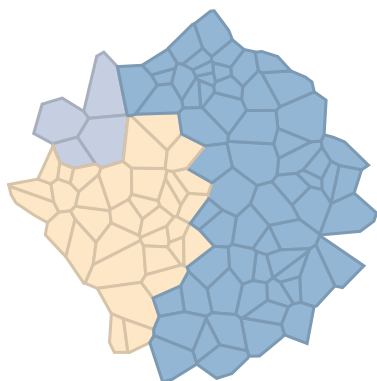
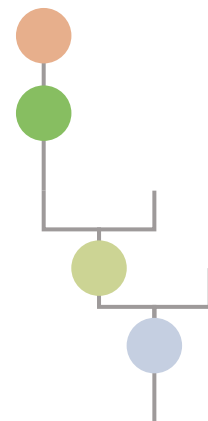
TR2

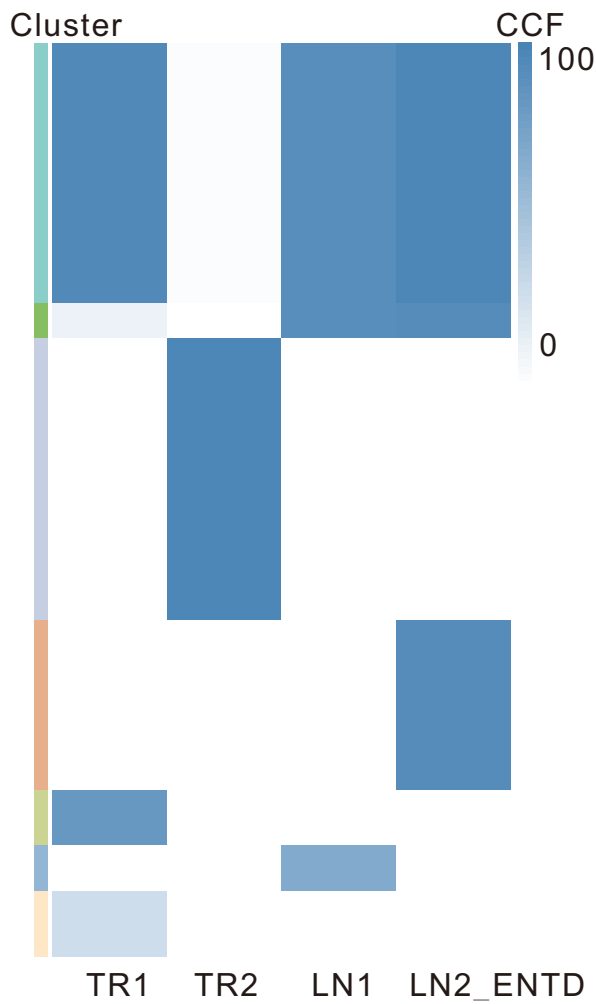


TR3

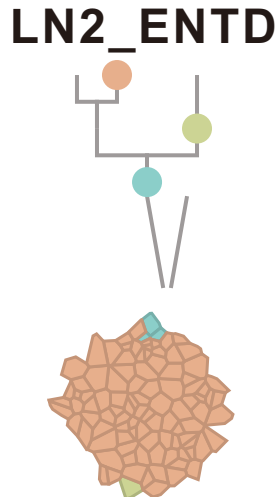
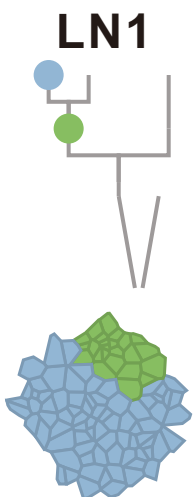
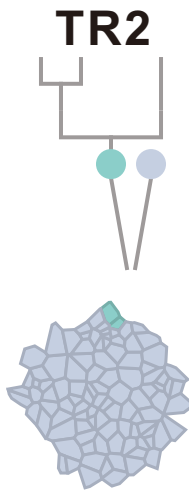
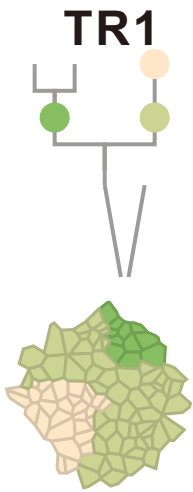
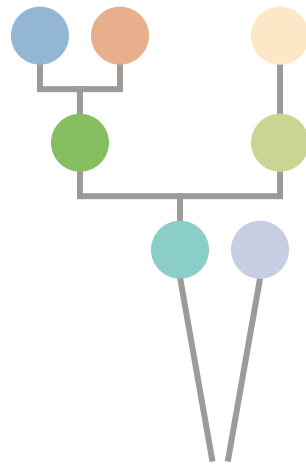


TR5



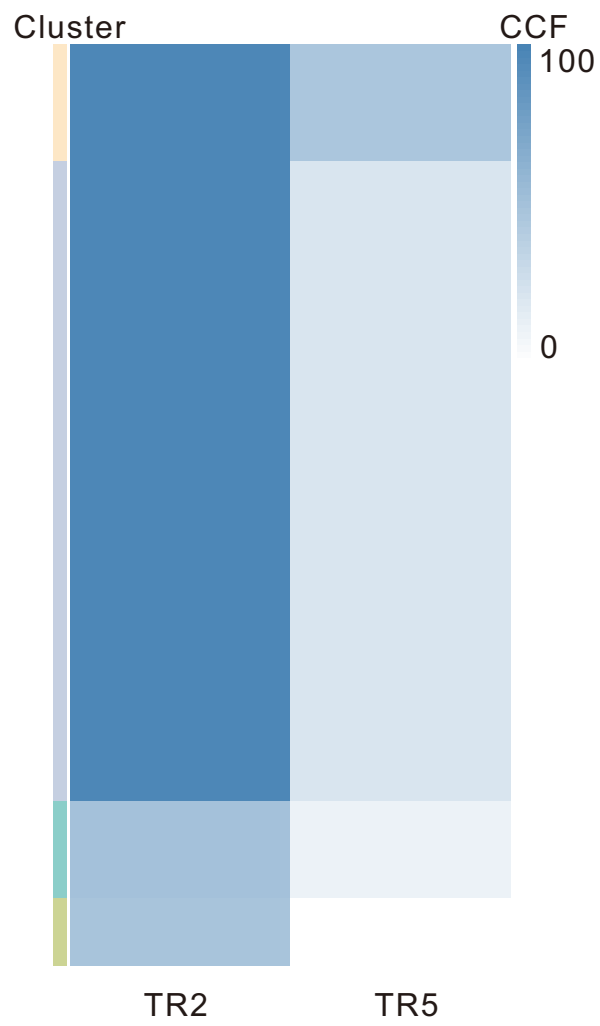


CRC48



Gene	Cyband	Type	Cluster
* APC	5q22.2	InDel	2
* APC	5q22.2	InDel	2
FLT3	13q12.2	Amp	2
FOXO1	13q14.11	Amp	2
CYSLTR2	13q14.2	Amp	2
PTPRD	9p24.1	SNV	6
RAD21	8q24.11	Amp	6
MYC	8q24.21	Amp	6
MUC4	3q29	Amp	7
PLAG1	8q12.1	Amp	7
PREX2	8q13.2	Amp	7
NCOA2	8q13.3	Amp	7
RUNX1T1	8q21.3	Amp	7
HEY1	8q21.13	Amp	7
CDH17	8q22.1	Amp	7
PABPC1	8q22.3	Amp	7
UBR5	8q22.3	Amp	7
CASP9	1p36.21	Del	7
PRDM2	1p36.21	Del	7
SPEN	1p36.21	Del	7
CAMTA1	1p36.31	Del	7
RPL22	1p36.31	Del	7
TNFRSF14	1p36.32	Del	7
SDHA	5p15.33	Del	7
FEN1	11q12.2	Del	7
SDHAF2	11q12.2	Del	7
MEN1	11q13.1	Del	7
EED	11q14.2	Del	7
BIRC3	11q22.2	Del	7
ATM	11q22.3	Del	7
DDX10	11q22.3	Del	7
SDHD	11q23.1	Del	7
ZBTB16	11q23.2	Del	7
ARHGEF12	11q23.3	Del	7
BCL9L	11q23.3	Del	7
CBL	11q23.3	Del	7
CCNB1IP1	14q11.2	Del	7
BAZ1A	14q13.2	Del	7
NKX2-1	14q13.3	Del	7
MAX	14q23.3	Del	7
RAD51B	14q24.1	Del	7
BCL11B	14q32.2	Del	7
DICER1	14q32.13	Del	7
AXIN1	16p13.3	Del	7
NTHL1	16p13.3	Del	7
TRAF7	16p13.3	Del	7
TSC2	16p13.3	Del	7
FLCN	17p11.2	Del	7
NCOR1	17p11.2	Del	7
MAP2K4	17p12	Del	7
PER1	17p13.1	Del	7
TP53	17p13.1	Del	7
YWHAE	17p13.3	Del	7
DNM2	19p13.2	Del	7
KEAP1	19p13.2	Del	7
SMARCA4	19p13.2	Del	7
STK11	19p13.3	Del	7
TCF3	19p13.3	Del	7
ELL	19p13.11	Del	7
SIRPA	20p13	Del	7
KRAS	12p12.1	SNV	NA
TP53	17p13.1	SNV	NA
SMAD4	18q21.2	SNV	NA
AMER1	Xq11.2	SNV	NA
ATP2B3	Xq28	SNV	NA
LZTR1	22q11.21	InDel	NA
BCORL1	Xq26.1	InDel	NA

CRC49 *



Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
* APC	5q22.2	SNV	1
TP53	17p13.1	SNV	1
MUC4	3q29	Amp	3
RECQL4	8q24.3	Amp	3

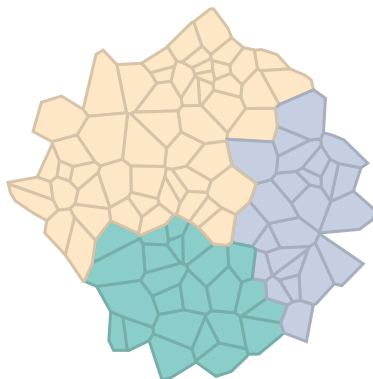
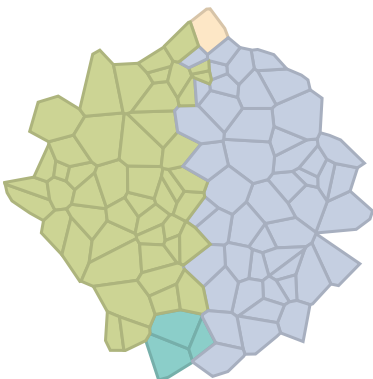
TR2



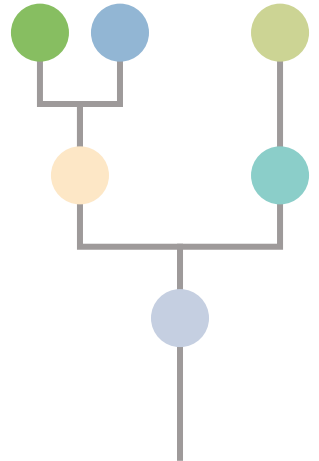
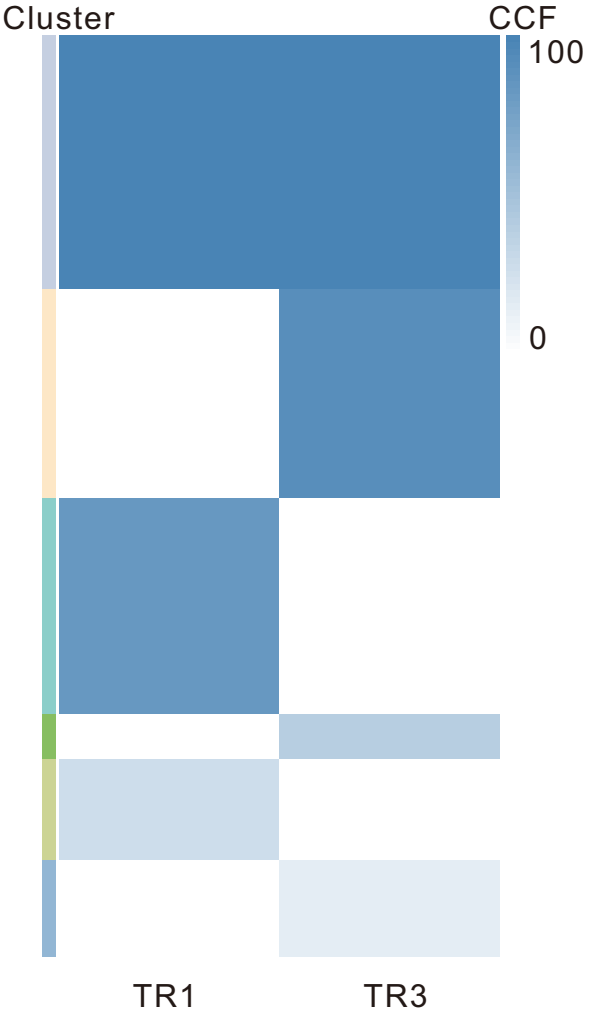
TR5



* One cluster with CCF=0.9 in TR5 and CCF=0.02 in TR2 contains 3 genes, which is filtered out because of the more than 5 scale threshold of cluster.

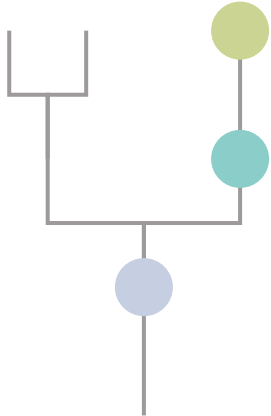


CRC50

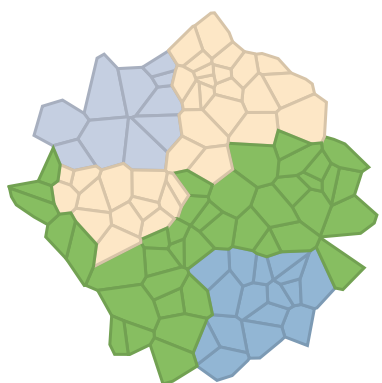
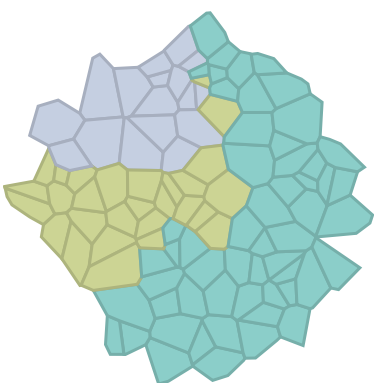
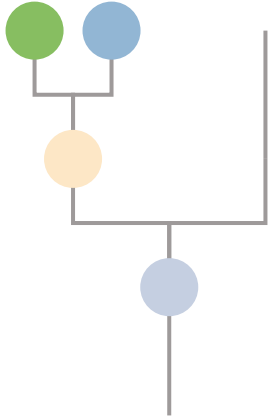


Gene	Cytoband	Type	Cluster
<i>ARID1A</i>	1p36.11	SNV	1
<i>PIK3CA</i>	3q26.32	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>BAP1</i>	3p21.1	InDel	1
<i>APC</i>	5q22.2	InDel	1
<i>FBXW7</i>	4q31.3	SNV	2
<i>FAT4</i>	4q28.1	SNV	3
<i>DICER1</i>	14q32.13	InDel	3
<i>TSC1</i>	9q34.13	SNV	5

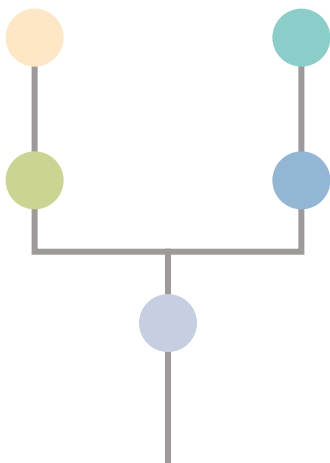
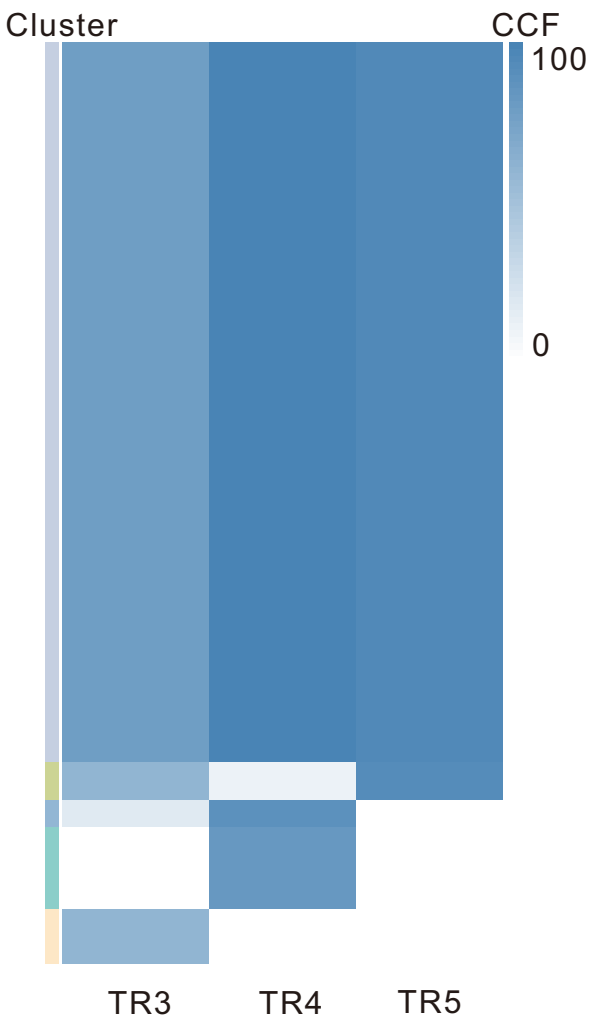
TR1



TR3

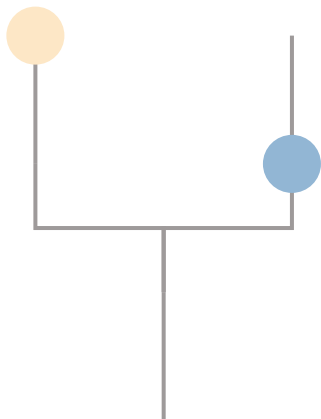


CRC51

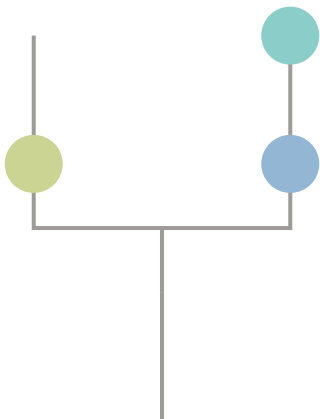


Gene	Cytoband	Type	Cluster
<i>CAMTA1</i>	1p36.23	SNV	1
<i>*FBXW7</i>	4q31.3	SNV	1
<i>*APC</i>	5q22.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>SMAD4</i>	18q21.2	SNV	1
<i>*APC</i>	5q22.2	InDel	1
<i>AXIN2</i>	17q24.1	InDel	1
<i>LZTR1</i>	22q11.21	InDel	1
<i>MUC4</i>	3q29	Amp	1
<i>RUNX1T1</i>	8q21.3	Amp	1
<i>CDH17</i>	8q22.1	Amp	1
<i>PABPC1</i>	8q22.3	Amp	1
<i>UBR5</i>	8q22.3	Amp	1
<i>RAD21</i>	8q24.11	Amp	1
<i>MYC</i>	8q24.21	Amp	1
<i>RECQL4</i>	8q24.3	Amp	1
<i>ARNT</i>	1q21.3	Del	3
<i>*FBXW7</i>	4q31.3	InDel	5
<i>FOXP1</i>	3p13	Amp	NA
<i>MITF</i>	3p13	Amp	NA
<i>PLAG1</i>	8q12.1	Amp	NA
<i>PREX2</i>	8q13.2	Amp	NA
<i>NCOA2</i>	8q13.3	Amp	NA
<i>HEY1</i>	8q21.13	Amp	NA

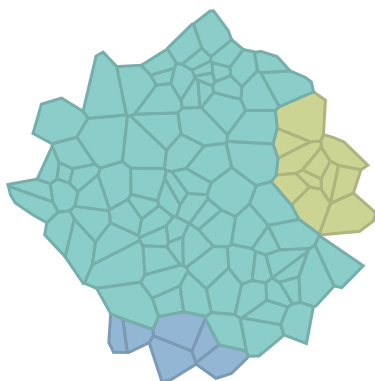
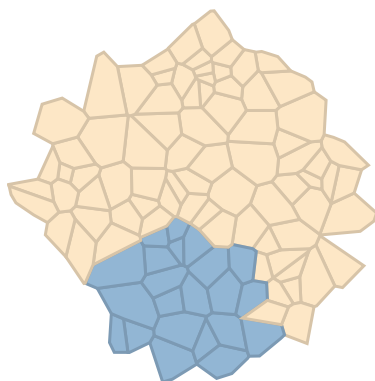
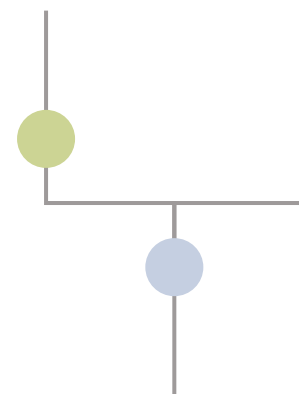
TR3



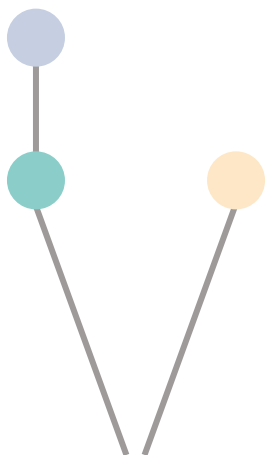
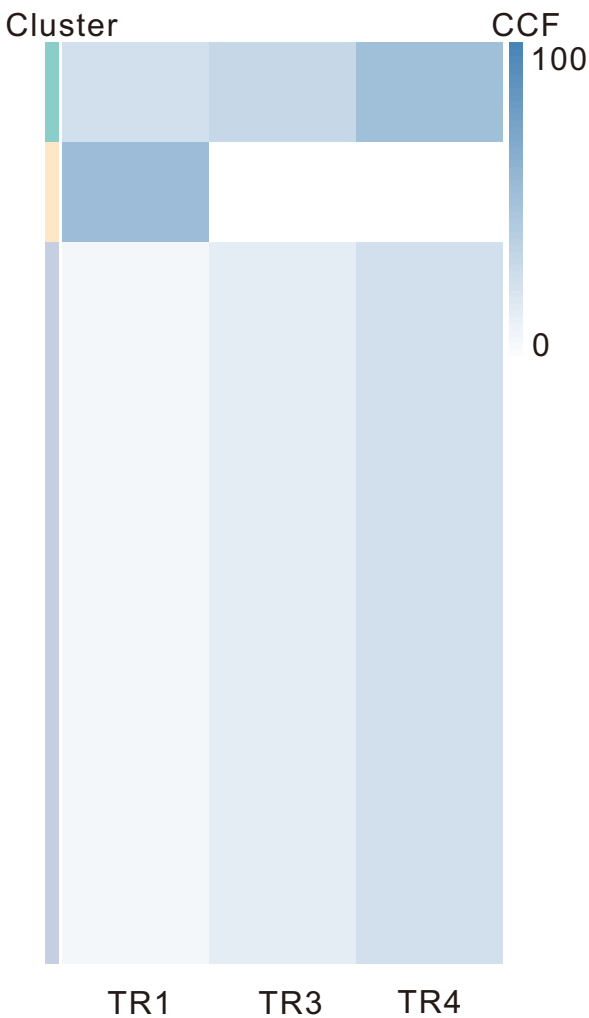
TR4



TR5

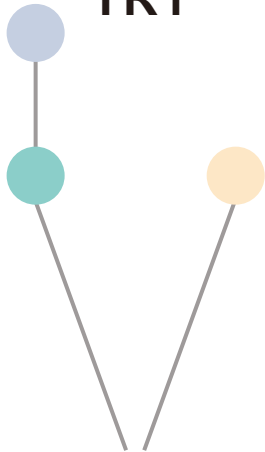


CRC52

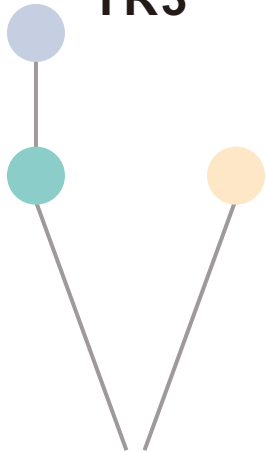


Gene	Cytoband	Type	Cluster
APC	5q22.2	SNV	1
TP53	17p13.1	SNV	1

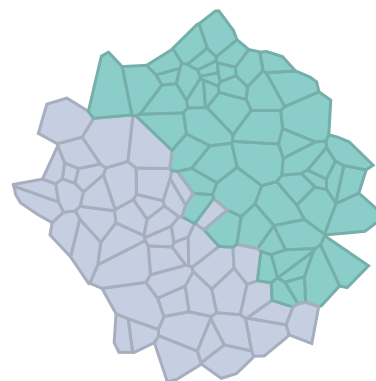
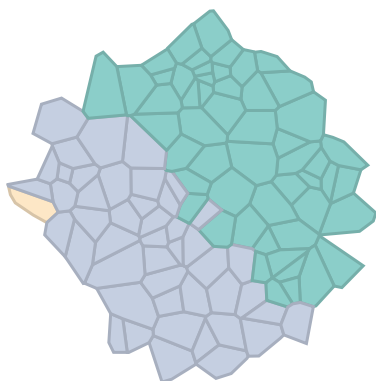
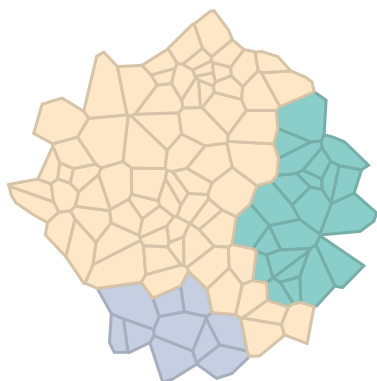
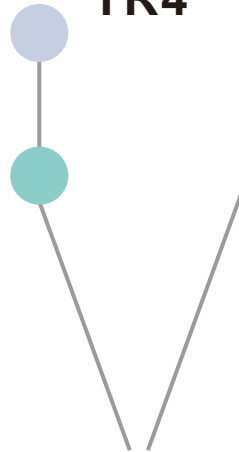
TR1



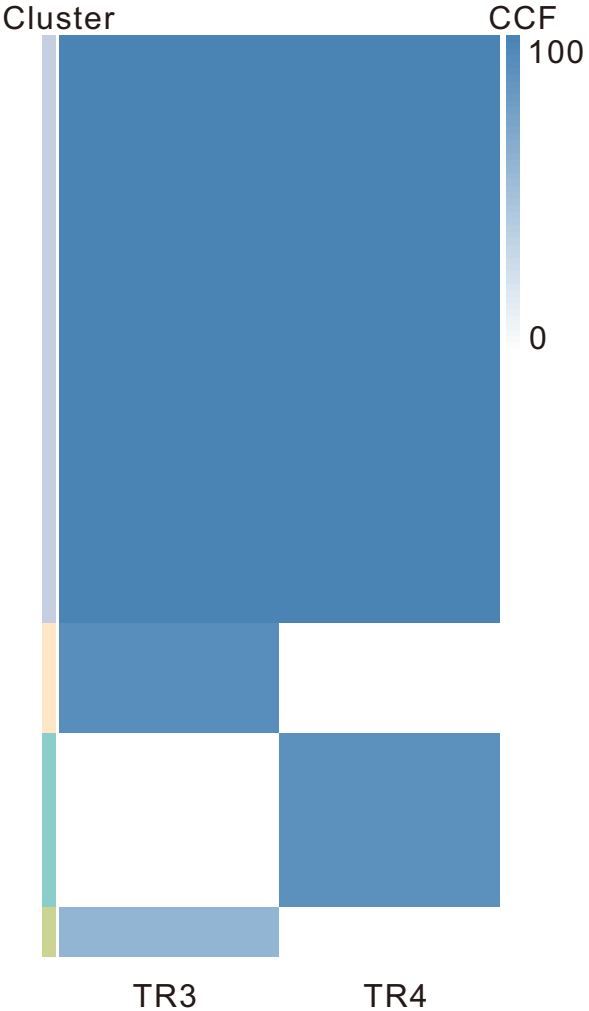
TR3



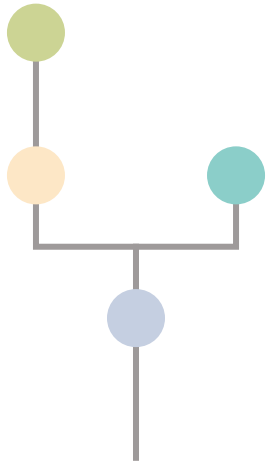
TR4



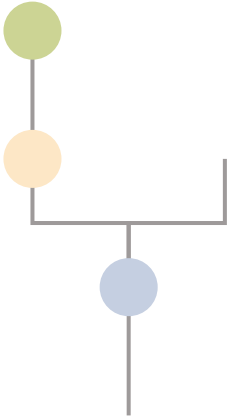
CRC53



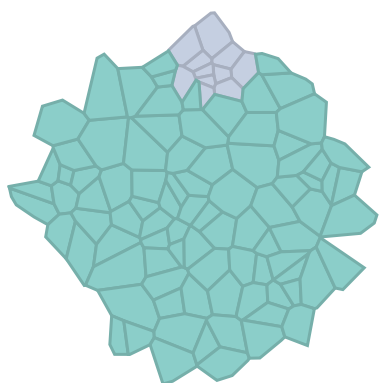
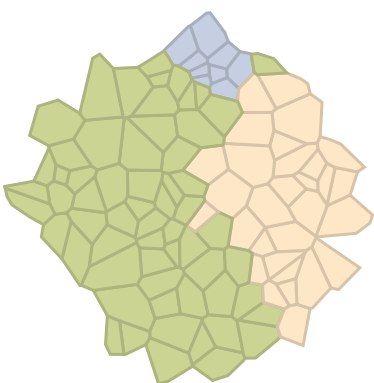
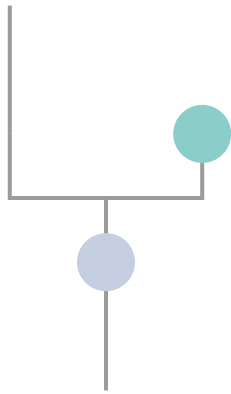
Gene	Cytoband	Type	Cluster
<i>FBXW7</i>	4q31.3	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>SMARCA4</i>	19p13.2	SNV	1
<i>APC</i>	5q22.2	InDel	1
<i>LZTR1</i>	22q11.21	InDel	1
<i>KRAS</i>	12p12.1	Amp	2
<i>AMER1</i>	Xq11.2	SNV	NA



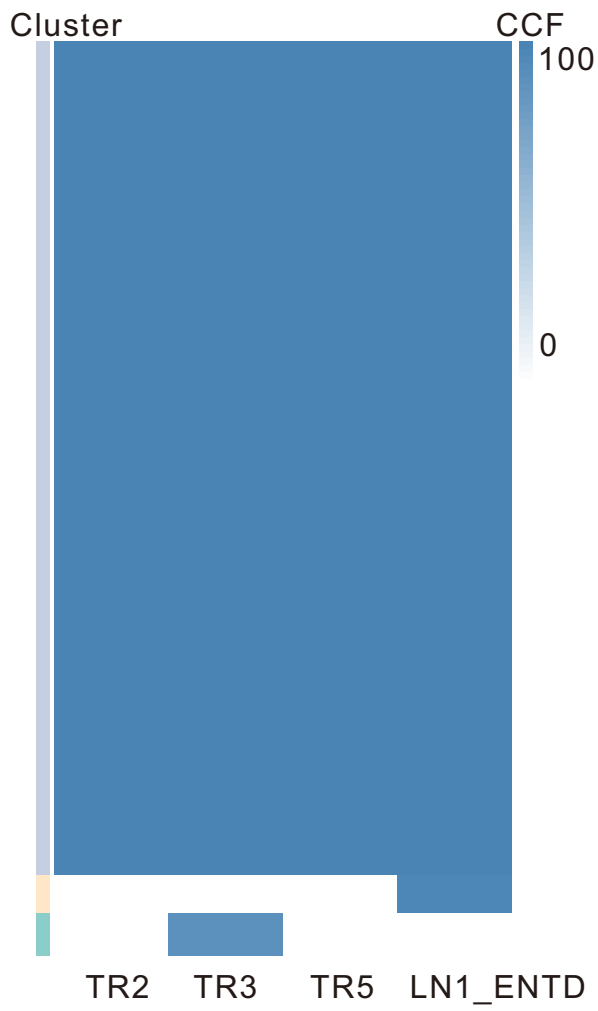
TR3



TR4



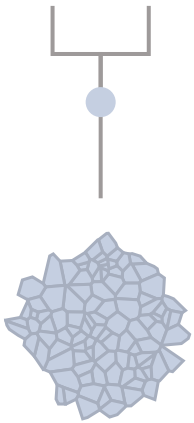
CRC54



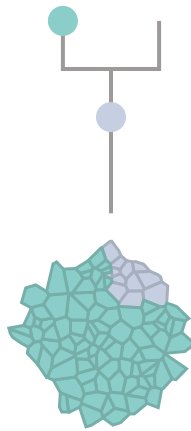
Gene	Cytoband	Type	Cluster
* APC	5q22.2	SNV	1
KRAS	12p12.1	SNV	1
MAX	14q23.3	SNV	1
TP53	17p13.1	SNV	1
SMAD4	18q21.2	SNV	1
LZTR1	22q11.21	InDel	1
SSX2	Xp11.22	Amp	1
ARAF	Xp11.23	Amp	1
GATA1	Xp11.23	Amp	1
SSX1	Xp11.23	Amp	1
SSX4	Xp11.23	Amp	1
TFE3	Xp11.23	Amp	1
WAS	Xp11.23	Amp	1
KDM6A	Xp11.3	Amp	1
* APC	5q22.2	SNV	NA
AMER1	Xq11.2	SNV	NA
HRAS	11p15.5	Amp	NA

TR2 TR3 TR5 LN1_ENTD

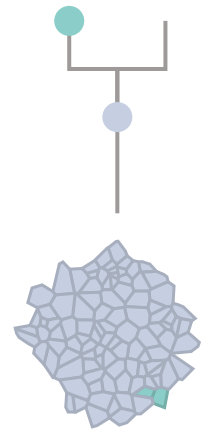
TR2



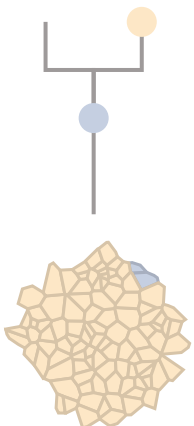
TR3



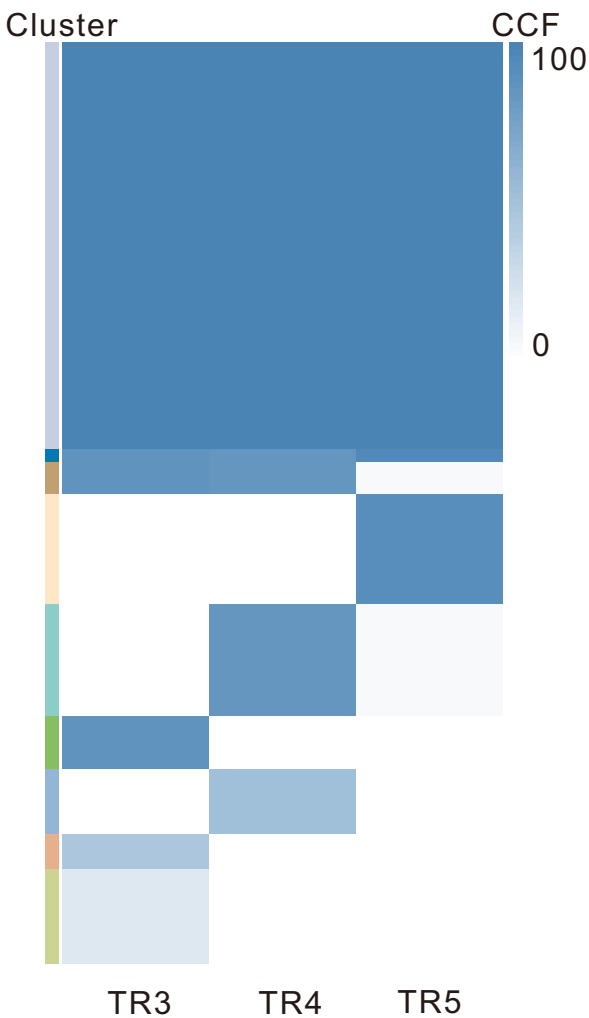
TR5



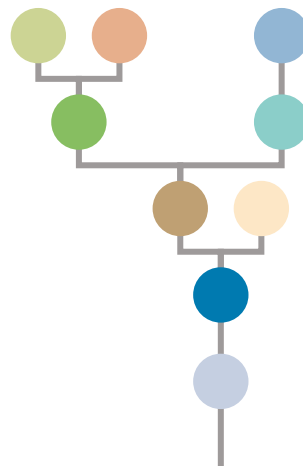
LN1_ENTD



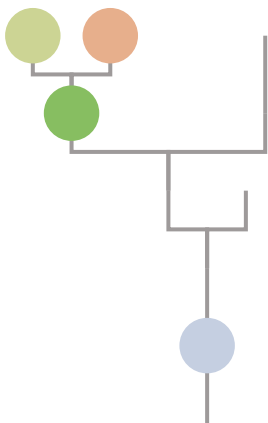
CRC55



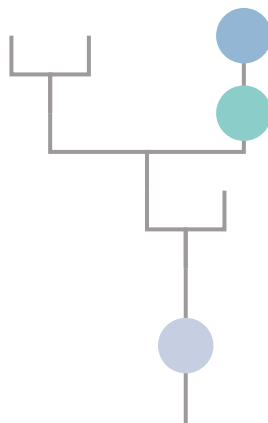
Gene	Cytoband	Type	Cluster
APC	5q22.2	SNV	1
CDH1	16q22.1	SNV	1
TP53	17p13.1	SNV	1
ARID1A	1p36.11	InDel	1
EGFR	7p11.2	Amp	1
HNRNPA2B1	7p15.2	Amp	1
HOXA11	7p15.2	Amp	1
HOXA13	7p15.2	Amp	1
HOXA9	7p15.2	Amp	1
MACC1	7p21.1	Amp	1
ETV1	7p21.2	Amp	1
RAC1	7p22.1	Amp	1
CARD11	7p22.2	Amp	1
FLT3	13q12.2	Amp	1
FOXO1	13q14.11	Amp	1
CYSLTR2	13q14.2	Amp	1
SRC	20q11.23	Amp	1
MUC4	3q29	Amp	2
NCOR1	17p12	SNV	3
MAFB	20q12	Amp	3
PLCG1	20q12	Amp	3
NFATC2	20q13.2	Amp	3
SALL4	20q13.2	Amp	3
GNAS	20q13.32	Amp	3
PTK6	20q13.33	Amp	3
AR	Xq12	SNV	NA



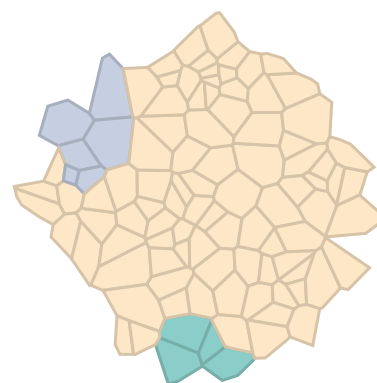
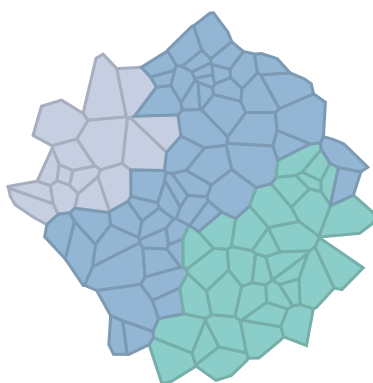
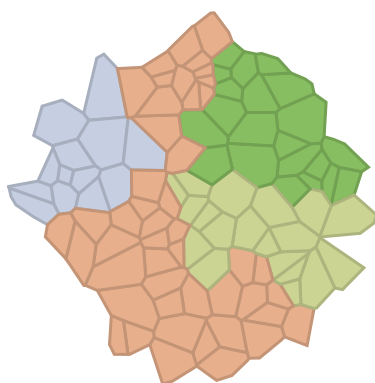
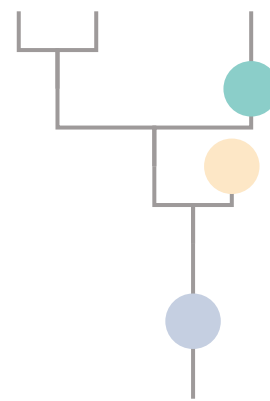
TR3



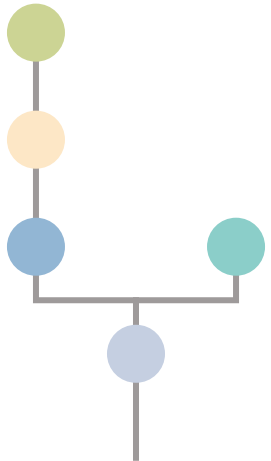
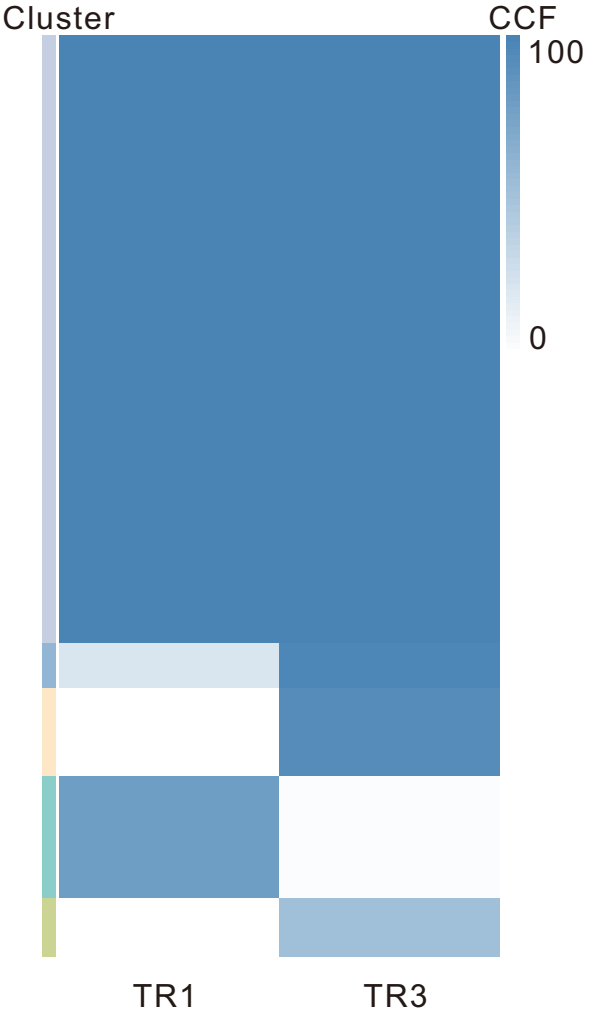
TR4



TR5

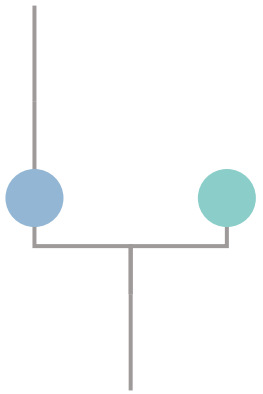


CRC56

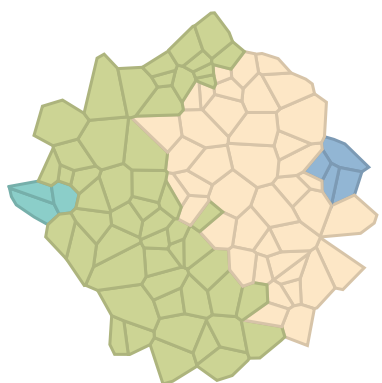
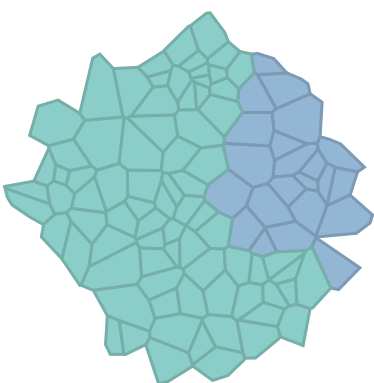
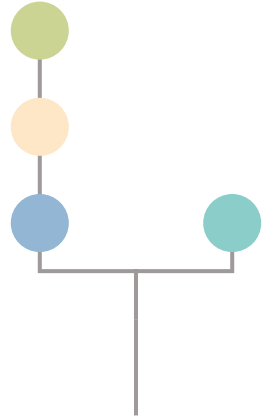


Gene	Cytoband	Type	Cluster
<i>PIK3CA</i>	3q26.32	SNV	1
<i>KDR</i>	4q12	SNV	1
* <i>FBXW7</i>	4q31.3	SNV	1
* <i>APC</i>	5q22.2	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>BCL9L</i>	11q23.3	InDel	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1
<i>ARHGEF10</i>	8p23.3	Del	1
* <i>FBXW7</i>	4q31.3	SNV	5
* <i>APC</i>	5q22.2	SNV	5
<i>RBM10</i>	Xp11.23	SNV	NA

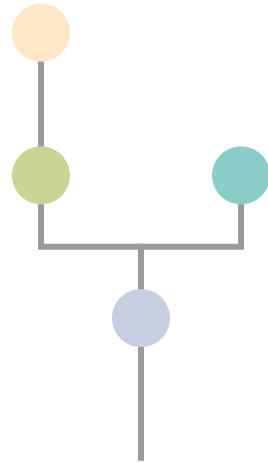
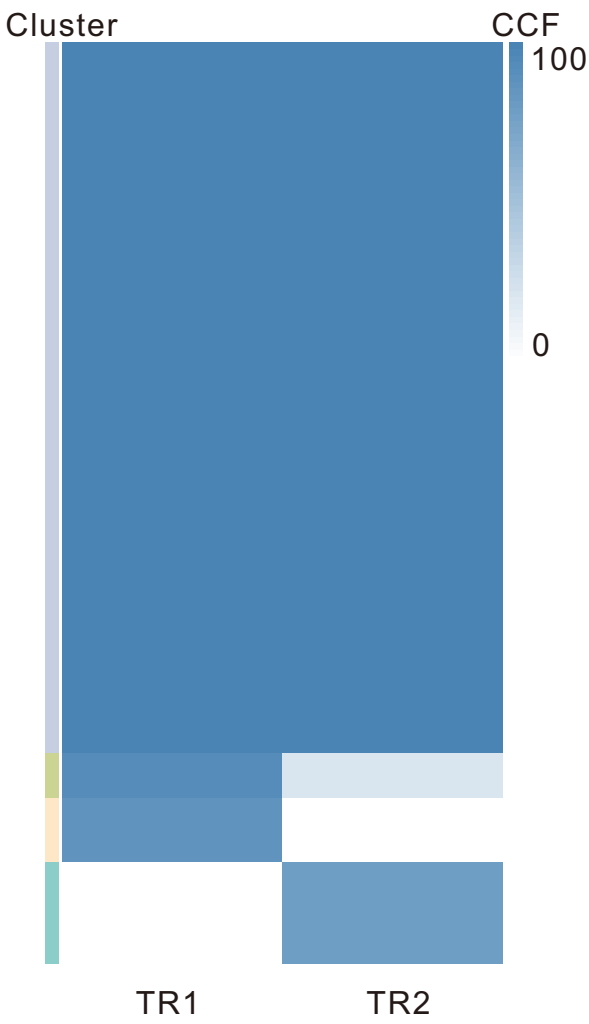
TR1



TR3

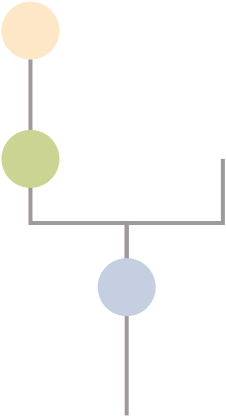


CRC57

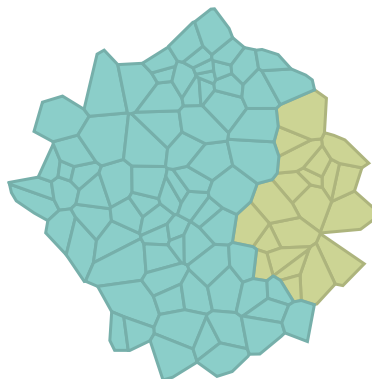
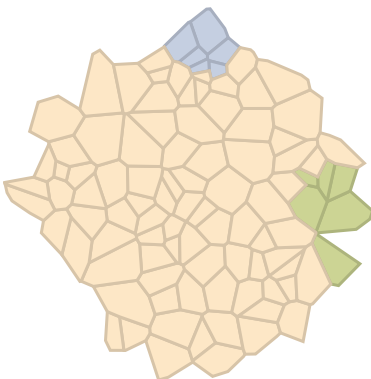
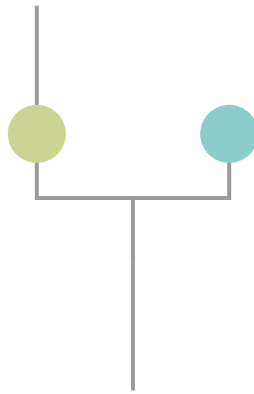


Gene	Cytoband	Type	Cluster
SETD2	3p21.31	SNV	1
KRAS	12p12.1	SNV	1
AXIN2	17q24.1	InDel	NA

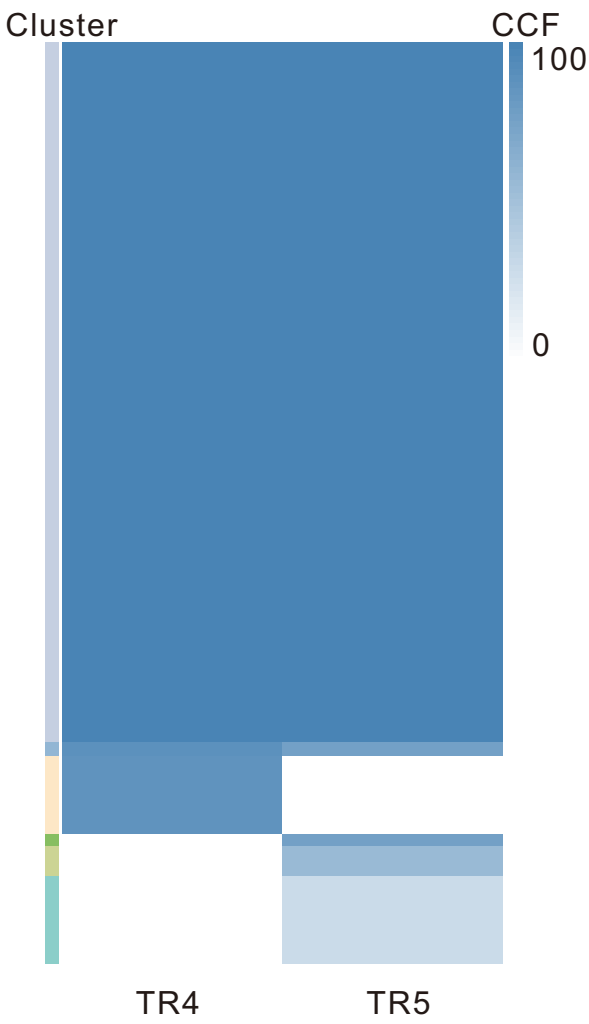
TR1



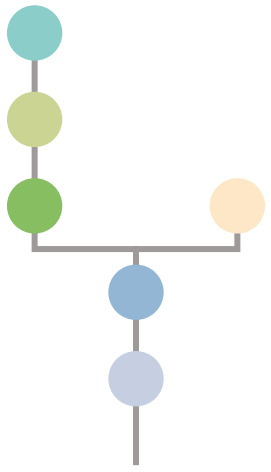
TR2



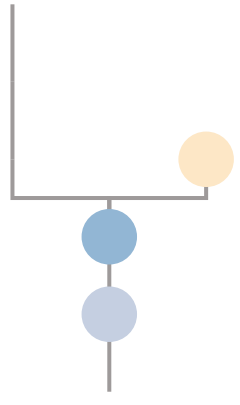
CRC58



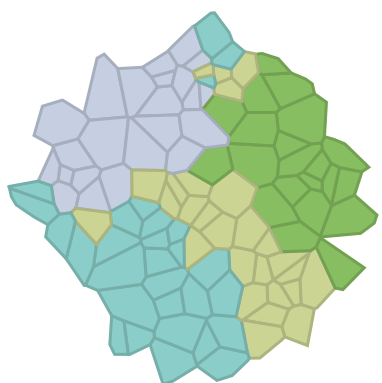
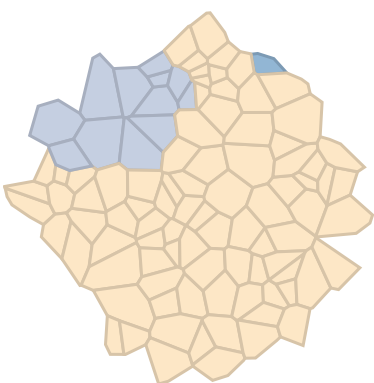
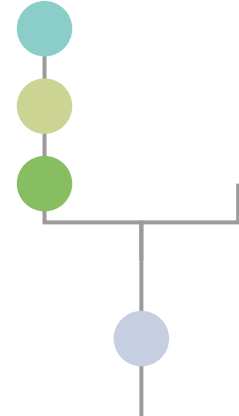
Gene	Cytoband	Type	Cluster
<i>CTNNB1</i>	3p22.1	SNV	1
<i>ATR</i>	3q23	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>EGFR</i>	7p11.2	Amp	1
<i>PLAG1</i>	8q12.1	Amp	1
<i>PREX2</i>	8q13.2	Amp	1
<i>NCOA2</i>	8q13.3	Amp	1
<i>RUNX1T1</i>	8q21.3	Amp	1
<i>HEY1</i>	8q21.13	Amp	1
<i>CDH17</i>	8q22.1	Amp	1
<i>PABPC1</i>	8q22.3	Amp	1
<i>UBR5</i>	8q22.3	Amp	1
<i>RECQL4</i>	8q24.3	Amp	1
<i>RAD21</i>	8q24.11	Amp	1
<i>MYC</i>	8q24.21	Amp	1
<i>FLT3</i>	13q12.2	Amp	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>LZTR1</i>	22q11.21	InDel	3
<i>GNAS</i>	20q13.32	Amp	NA

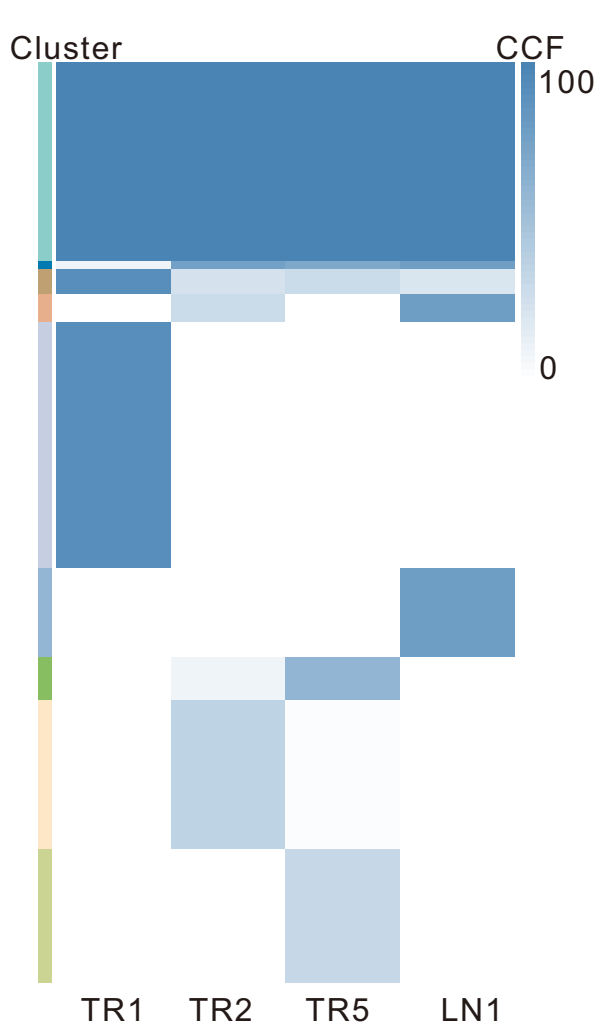


TR4

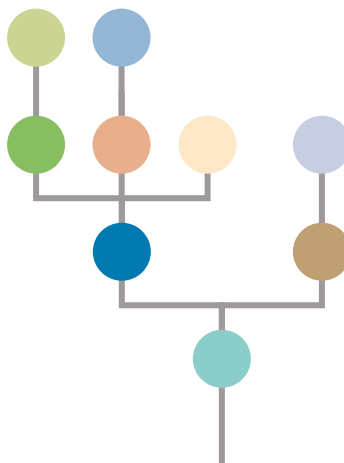


TR5

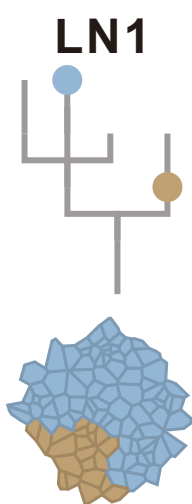
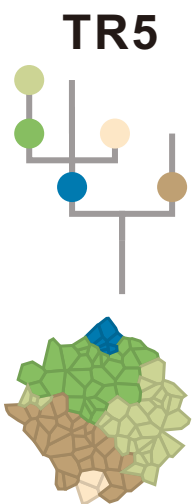
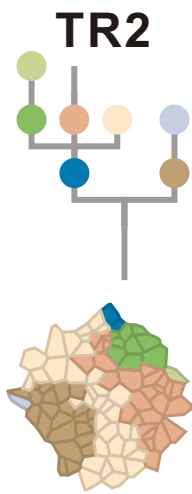
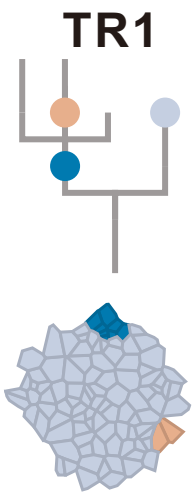




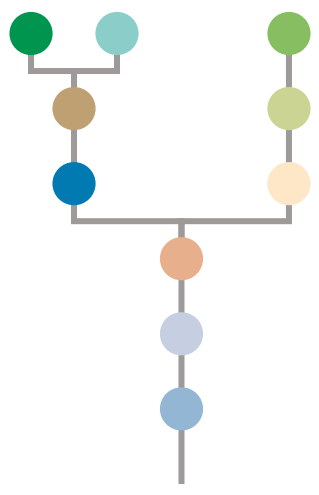
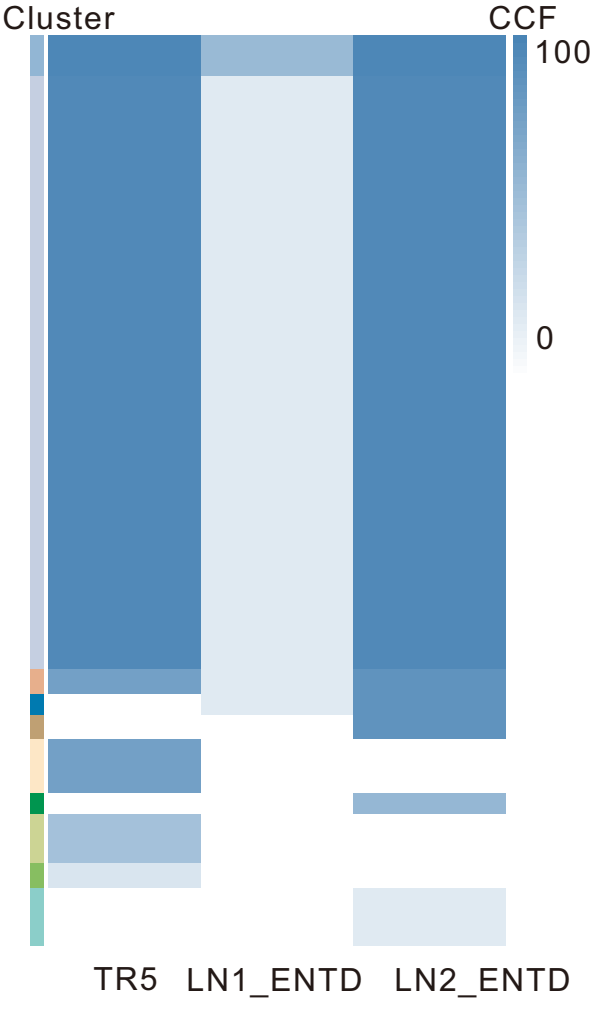
CRC59



Gene	Cytoband	Type	Cluster
<i>LRP1B</i>	2q22.1	SNV	2
<i>*APC</i>	5q22.2	SNV	2
<i>TCF7L2</i>	10q25.3	SNV	2
<i>TP53</i>	17p13.1	SNV	2
<i>*APC</i>	5q22.2	InDel	2
<i>FLT3</i>	13q12.2	Amp	2
<i>SRC</i>	20q11.23	Amp	2
<i>MAFB</i>	20q12	Amp	2
<i>PLCG1</i>	20q12	Amp	2
<i>NFATC2</i>	20q13.2	Amp	2
<i>SALL4</i>	20q13.2	Amp	2
<i>GNAS</i>	20q13.32	Amp	2
<i>PTK6</i>	20q13.33	Amp	2
<i>LEPROTL1</i>	8p12	Del	2
<i>WRN</i>	8p12	Del	2
<i>ARHGEF10</i>	8p23.3	Del	2
<i>SMAD2</i>	18q21.1	Del	2
<i>SMAD4</i>	18q21.2	Del	2
<i>RUNX1</i>	21q22.12	Del	2
<i>PIK3CA</i>	3q26.32	SNV	3
<i>CHD2</i>	15q26.1	SNV	3
<i>CREBBP</i>	16p13.3	SNV	4
<i>PBRM1</i>	3p21.1	InDel	4
<i>IKBKB</i>	8p11.21	Amp	8
<i>KAT6A</i>	8p11.21	Amp	8
<i>PLAG1</i>	8q12.1	Amp	8
<i>RUNX1T1</i>	8q21.3	Amp	8
<i>CDH17</i>	8q22.1	Amp	8
<i>PABPC1</i>	8q22.3	Amp	8
<i>UBR5</i>	8q22.3	Amp	8
<i>RAD21</i>	8q24.11	Amp	8
<i>MYC</i>	8q24.21	Amp	8
<i>NRG1</i>	8p12	Del	8
<i>HEY1</i>	8q21.13	Amp	NA
<i>OLIG2</i>	21q22.11	Amp	NA

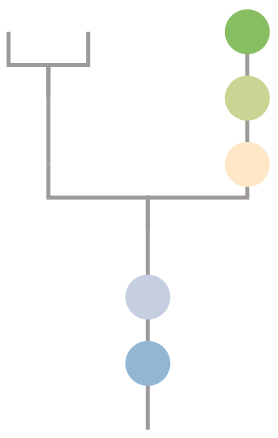


CRC60

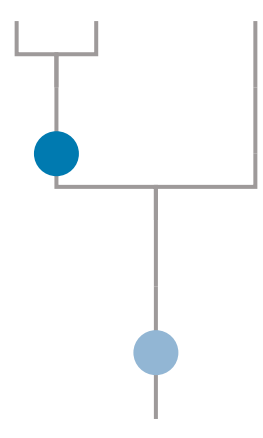


Gene	Cytoband	Type	Cluster
<i>TGFBR2</i>	3p24.1	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>TP53</i>	17p13.1	SNV	1
* <i>APC</i>	5q22.2	InDel	1
* <i>APC</i>	5q22.2	InDel	1
<i>FLT3</i>	13q12.2	Amp	5
<i>CYSLTR2</i>	13q14.2	Amp	5
<i>FOXO1</i>	13q14.11	Amp	5

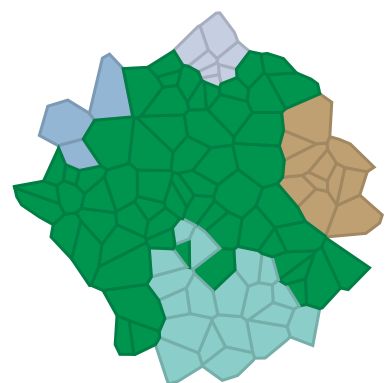
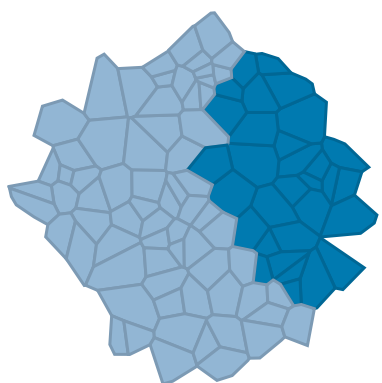
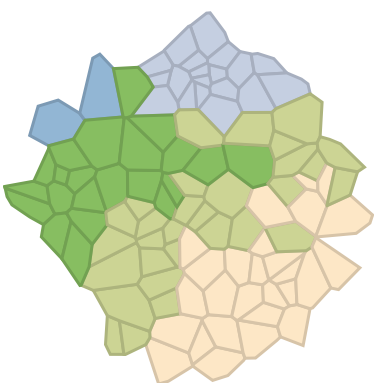
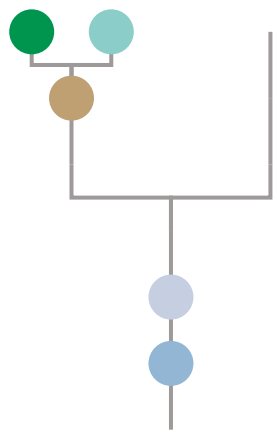
TR5



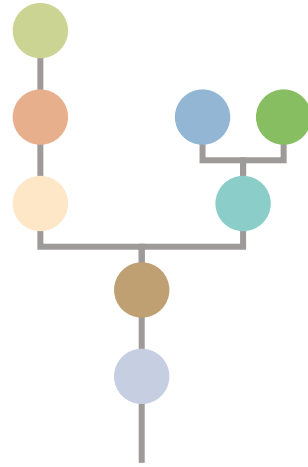
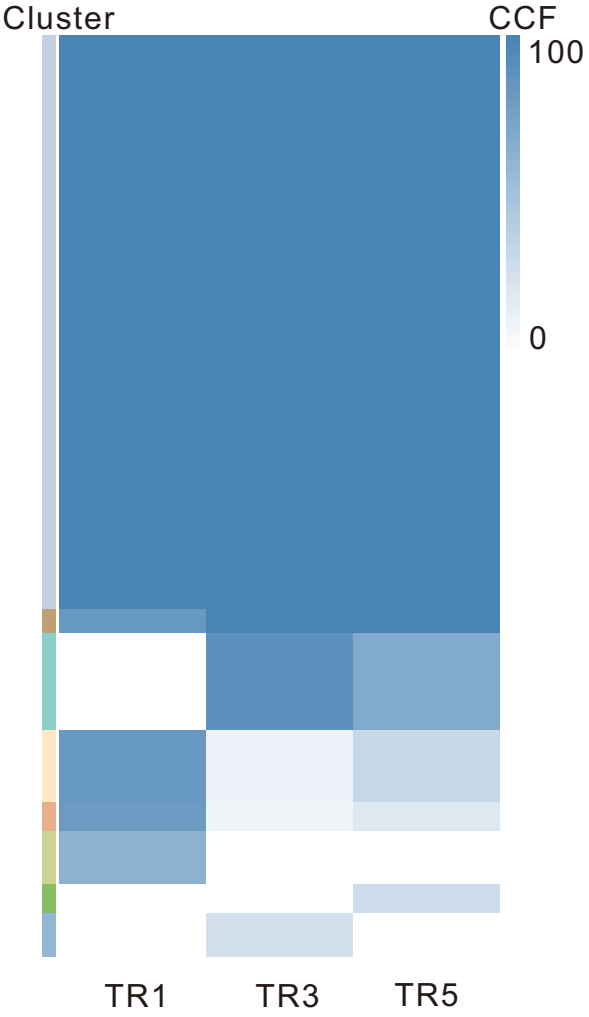
LN1_ENTD



LN2_ENTD

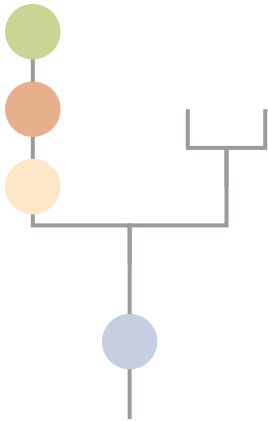


CRC61

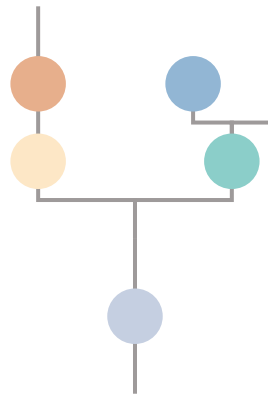


Gene	Cytoband	Type	Cluster
<i>ARID1A</i>	1p36.11	SNV	1
<i>FBXW7</i>	4q31.3	SNV	1
<i>APC</i>	5q22.2	SNV	1
<i>TCF7L2</i>	10q25.3	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>TP53</i>	17p13.1	SNV	1
<i>AMER1</i>	Xq11.2	SNV	NA

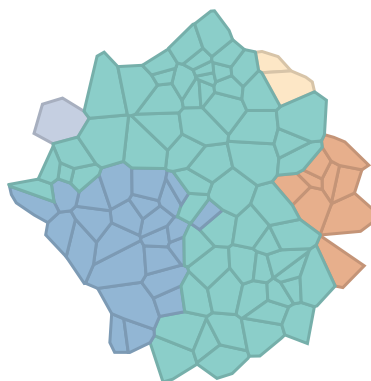
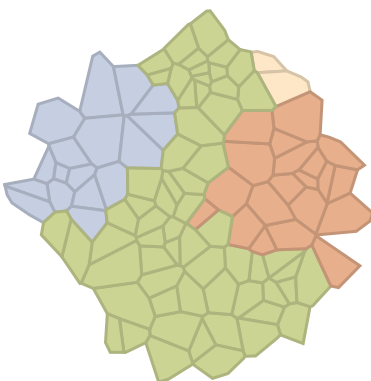
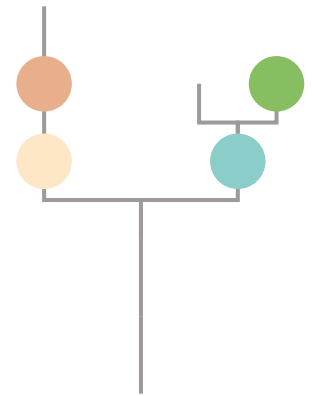
TR1



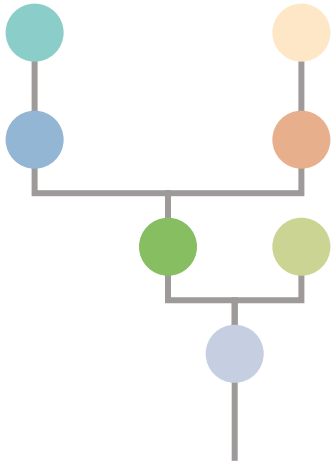
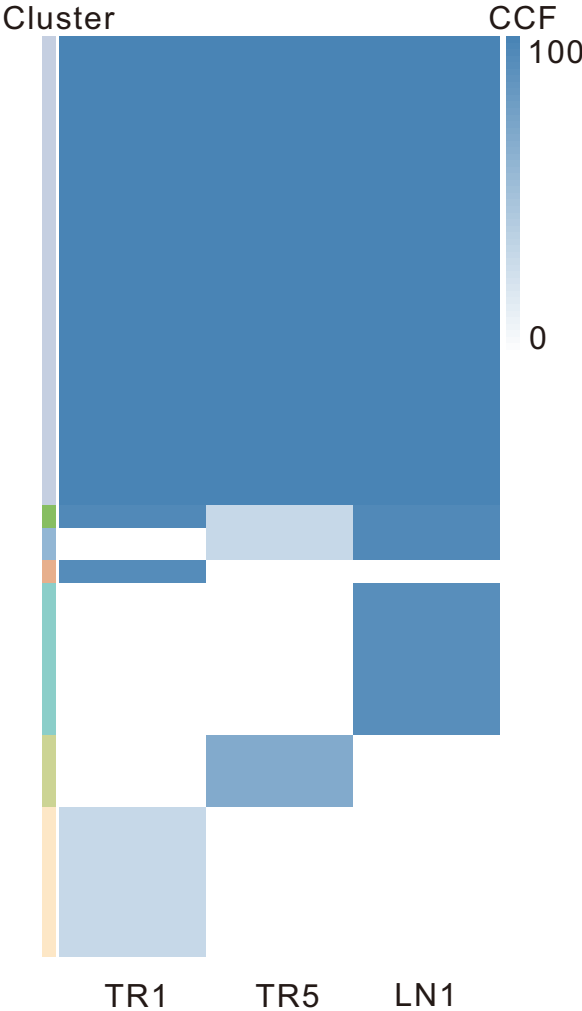
TR3



TR5

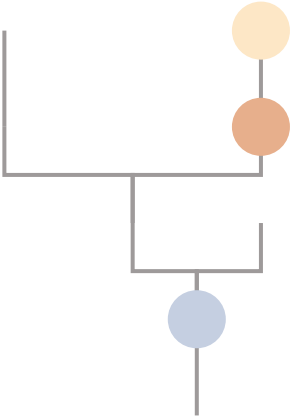


CRC62

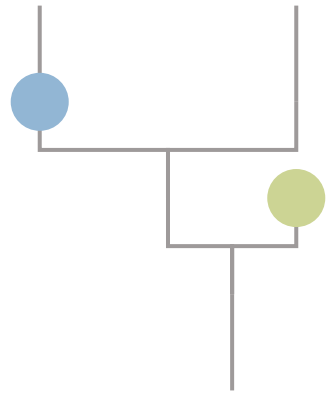


Gene	Cytoband	Type	Cluster
<i>TP53</i>	17p13.1	SNV	1
<i>ARID1A</i>	1p36.11	InDel	1
<i>IL7R</i>	5p13.2	Amp	1
<i>CTNND2</i>	5p15.2	Amp	1
<i>TERT</i>	5p15.33	Amp	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1
<i>GPC5</i>	13q31.3	SNV	NA

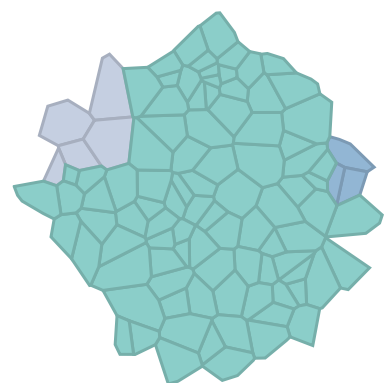
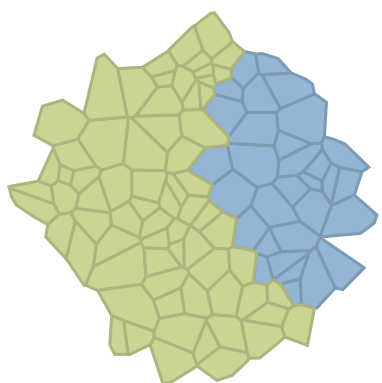
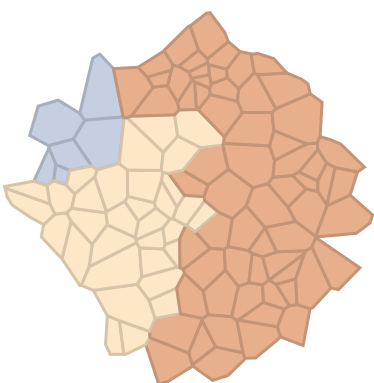
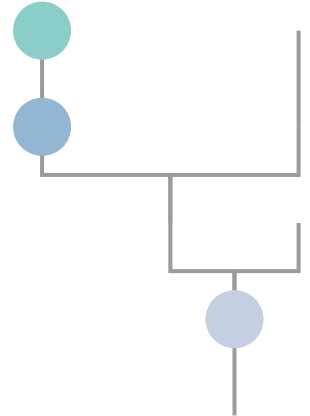
TR1



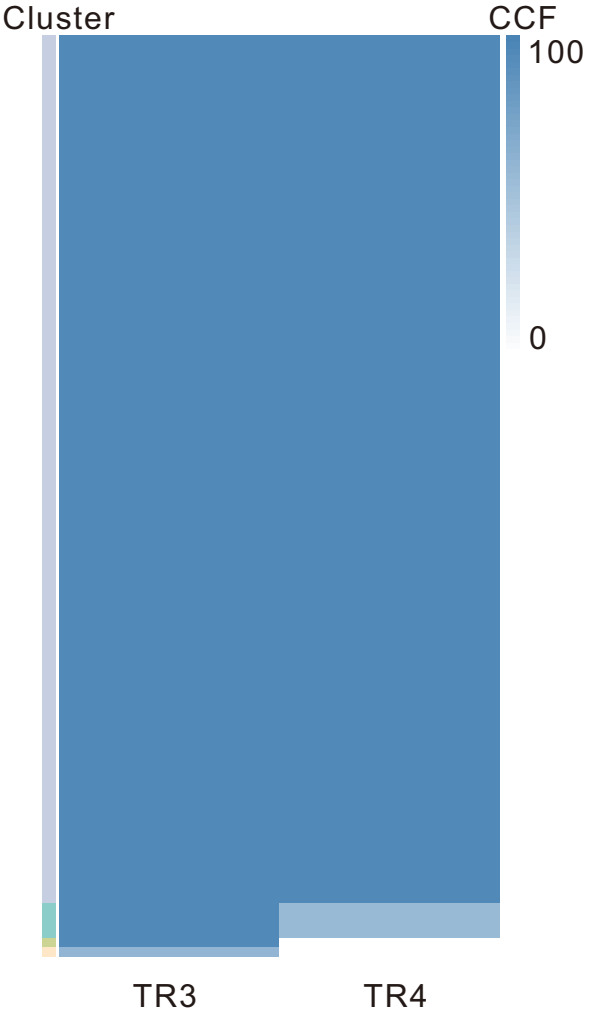
TR5



LN1



CRC63

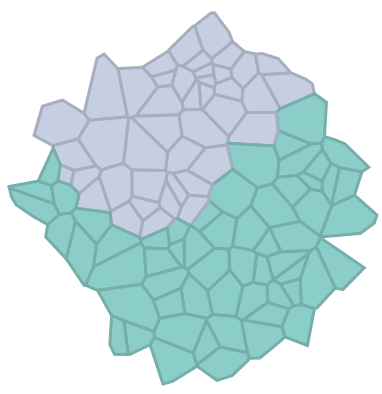
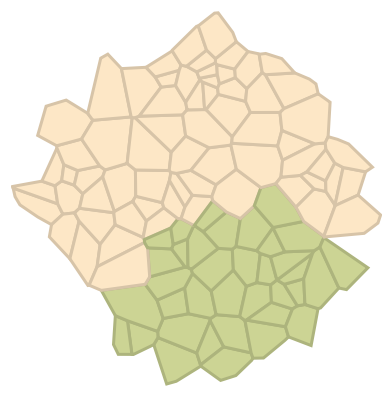


Gene	Cytoband	Type	Cluster
<i>ARNT</i>	1q21.3	SNV	1
<i>ASXL2</i>	2p23.3	SNV	1
<i>FBXW7</i>	4q31.3	SNV	1
* <i>APC</i>	5q22.2	SNV	1
<i>TSC1</i>	9q34.13	SNV	1
* <i>TSC2</i>	16p13.3	SNV	1
* <i>TSC2</i>	16p13.3	SNV	1
<i>ERBB2</i>	17q12	SNV	1
<i>ARHGAP26</i>	5q31.3	SNV	2
* <i>APC</i>	5q22.2	InDel	2
<i>TP53</i>	17p13.1	SNV	NA

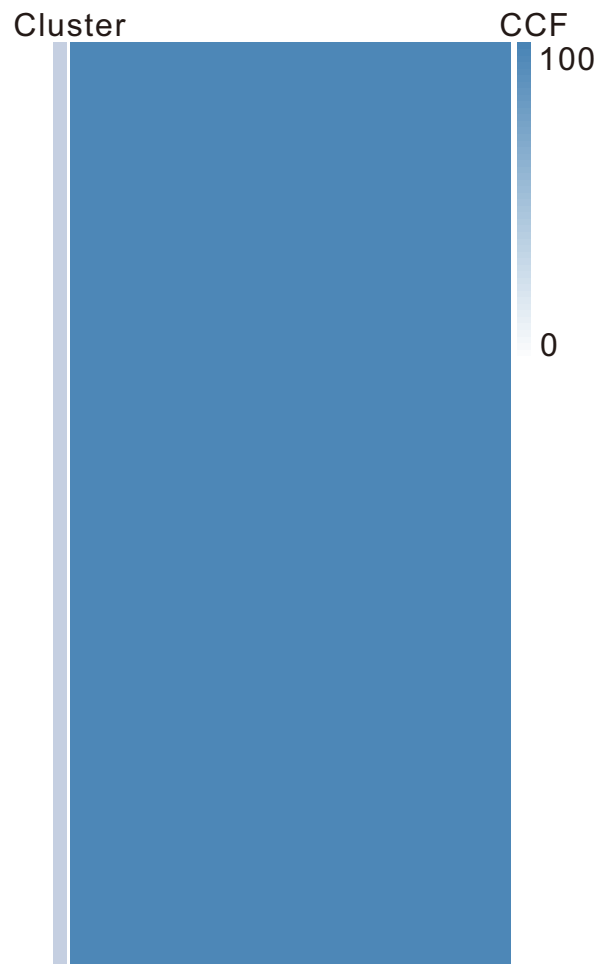
TR3



TR4



CRC64



TR1

TR3

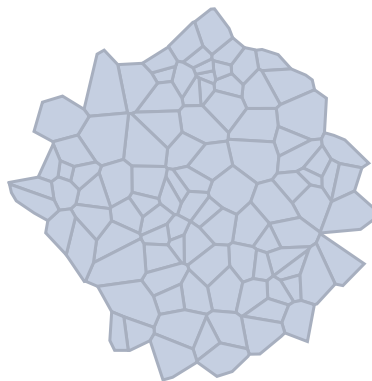
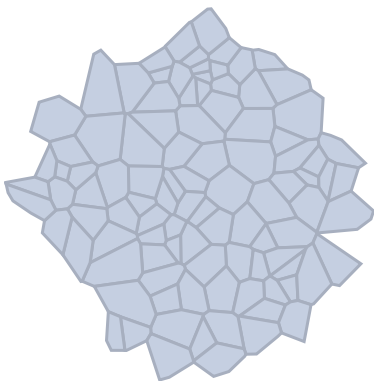
TR1



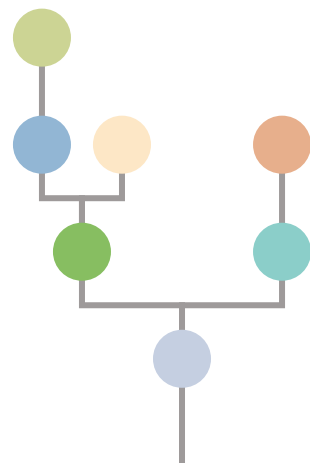
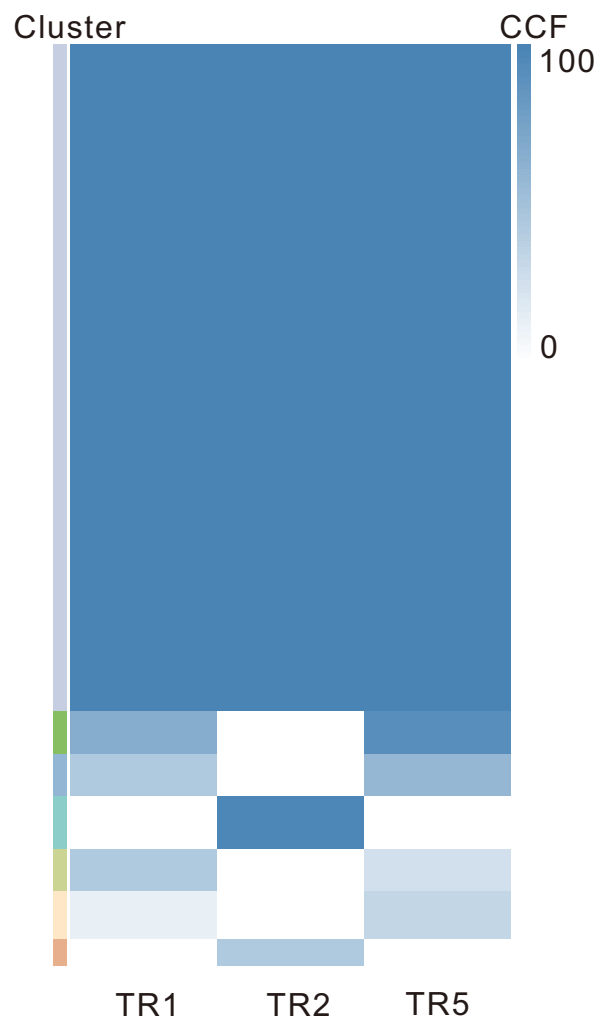
TR3



Gene	Cytoband	Type	Cluster
<i>PIK3CA</i>	3q26.32	SNV	NA
<i>FBXW7</i>	4q31.3	SNV	NA
<i>KRAS</i>	12p12.1	SNV	NA
<i>SMAD2</i>	18q21.1	SNV	NA
<i>APC</i>	5q22.2	InDel	NA
<i>CBFA2T3</i>	16q24.3	Del	NA

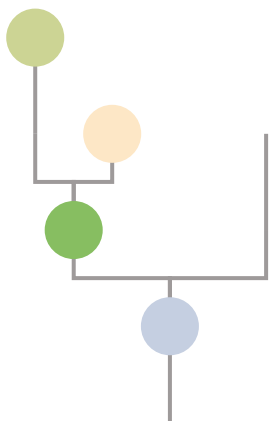


CRC65

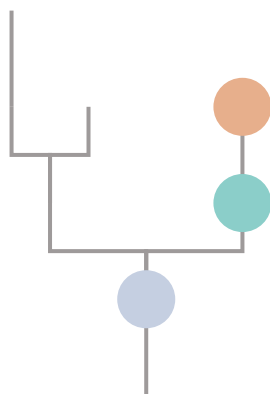


Gene	Cytoband	Type	Cluster
FAT4	4q28.1	SNV	1
CSMD3	8q23.3	SNV	1
KRAS	12p12.1	SNV	1
TP53	17p13.1	SNV	1
APC	5q22.2	InDel	1
SRC	20q11.23	Amp	1
MAFB	20q12	Amp	1
PLCG1	20q12	Amp	1
NFATC2	20q13.2	Amp	1
SALL4	20q13.2	Amp	1
PTK6	20q13.33	Amp	1
SIRPA	20p13	Del	1
CLTCL1	22q11.21	Del	1
LZTR1	22q11.21	Del	1
SMARCB1	22q11.23	Del	1
CHEK2	22q12.1	Del	1
ZNRF3	22q12.1	Del	1
NF2	22q12.2	Del	1
MYH9	22q12.3	Del	1
APOBEC3B	22q13.1	Del	1
EP300	22q13.2	Del	1
MKL1	22q13.2	Del	1
TBX3	12q24.21	InDel	NA
LZTR1	22q11.21	InDel	NA
GNAS	20q13.32	Amp	NA

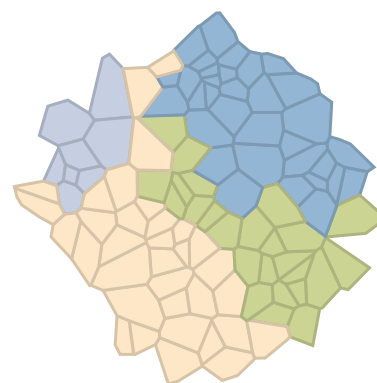
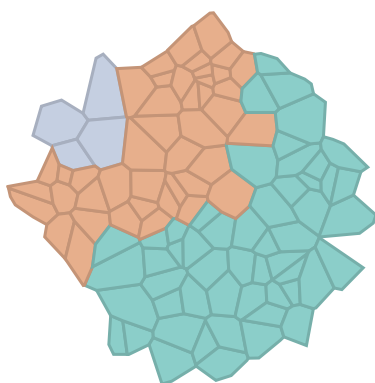
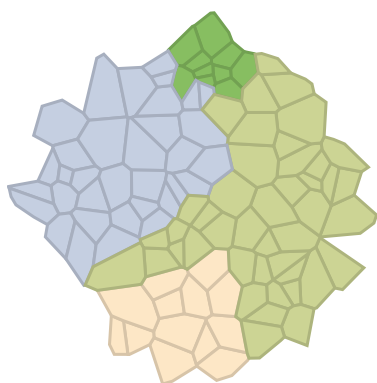
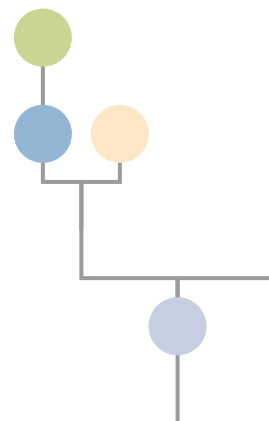
TR1



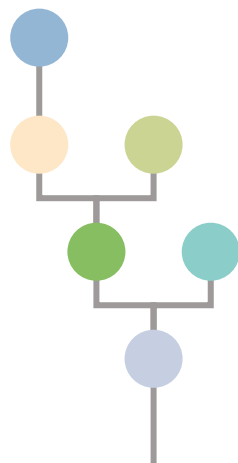
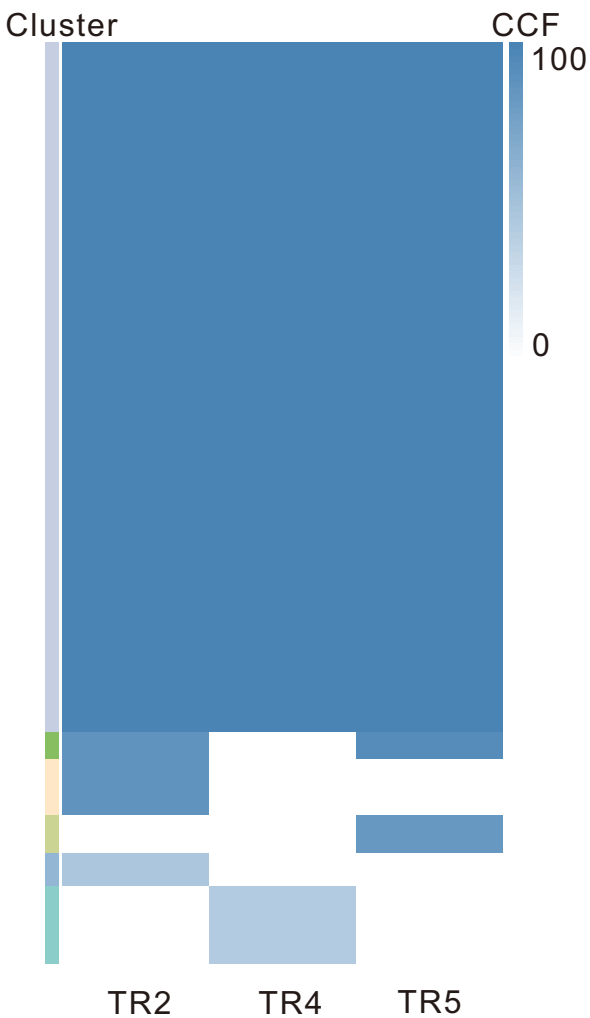
TR2



TR5

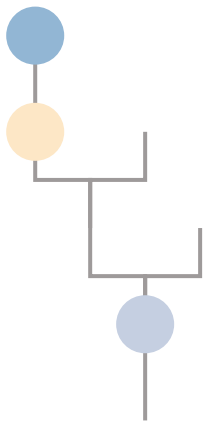


CRC66

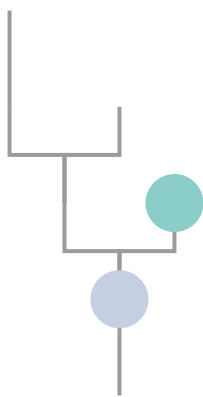


Gene	Cytoband	Type	Cluster
*FBXW7	4q31.3	SNV	1
*FBXW7	4q31.3	SNV	1
*FBXW7	4q31.3	SNV	1
APC	5q22.2	SNV	1
CDH11	16q21	SNV	1
TP53	17p13.1	SNV	1
SRC	20q11.23	Amp	1
MAFB	20q12	Amp	1
PLCG1	20q12	Amp	1
NFATC2	20q13.2	Amp	1
SALL4	20q13.2	Amp	1
GNAS	20q13.32	Amp	1
PTK6	20q13.33	Amp	1

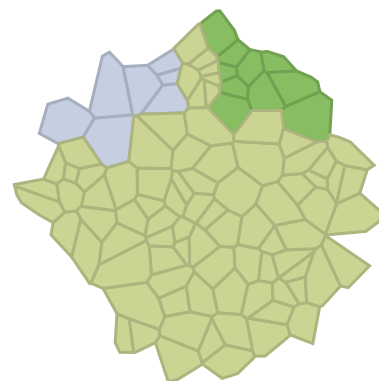
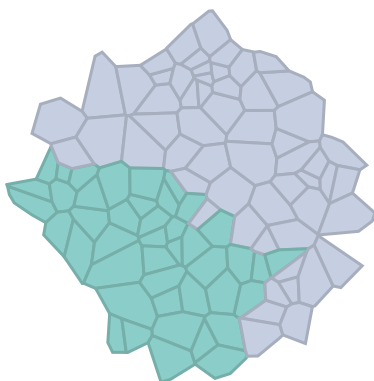
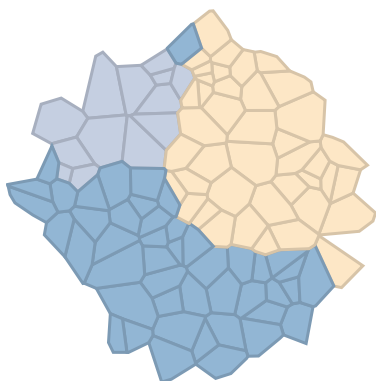
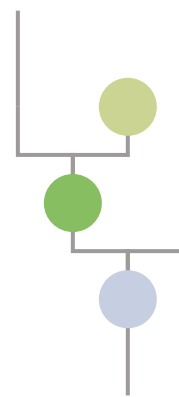
TR2



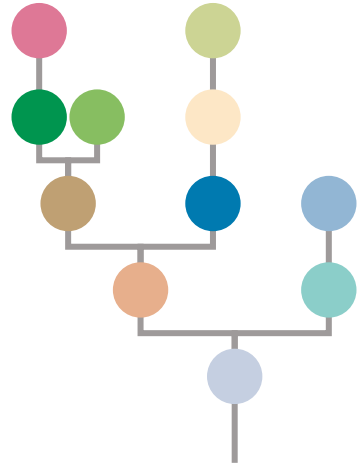
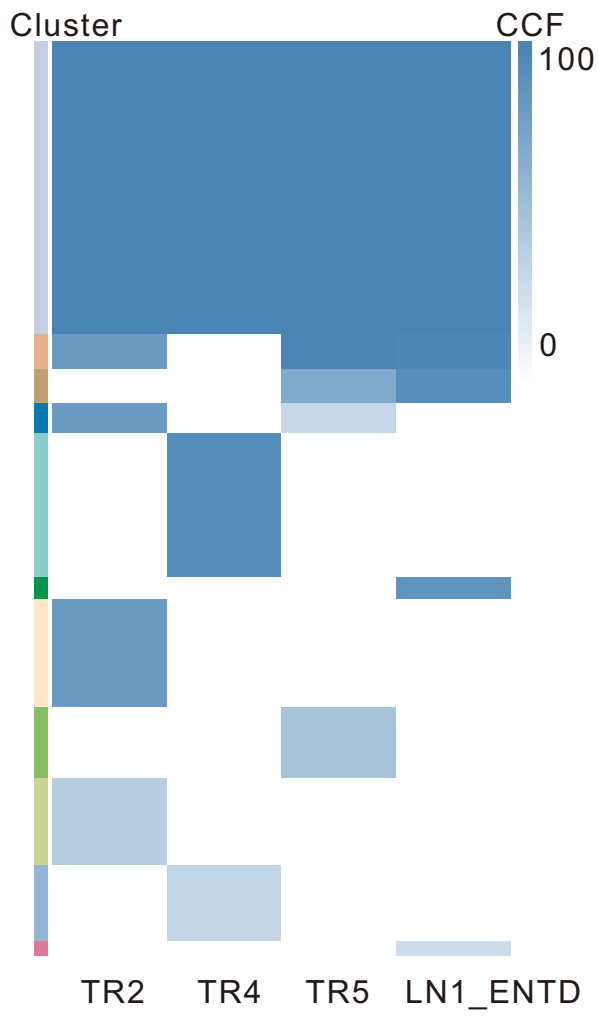
TR4



TR5

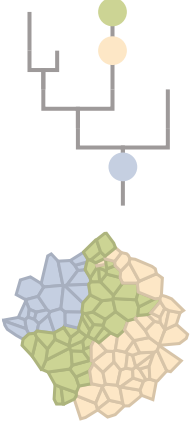


CRC67

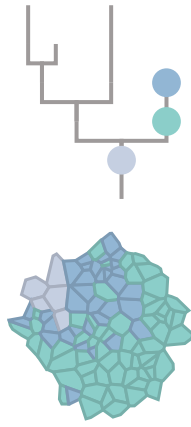


Gene	Cytoband	Type	Cluster
*LRP1B	2q22.1	SNV	1
PIK3CA	3q26.32	SNV	1
APC	5q22.2	SNV	1
EZH2	7q36.1	SNV	1
TP53	17p13.1	SNV	1
SMAD4	18q21.2	SNV	1
ARHGAP26	5q31.3	SNV	3
*LRP1B	2q22.1	SNV	6
*LRP1B	2q22.1	SNV	9

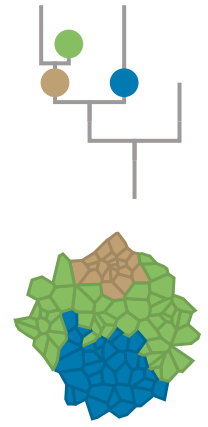
TR2



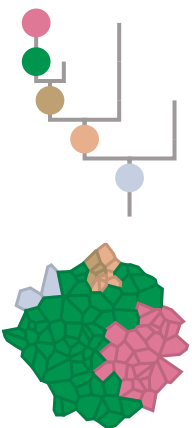
TR3



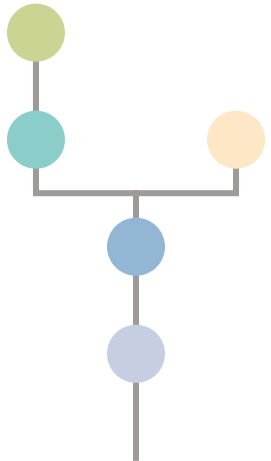
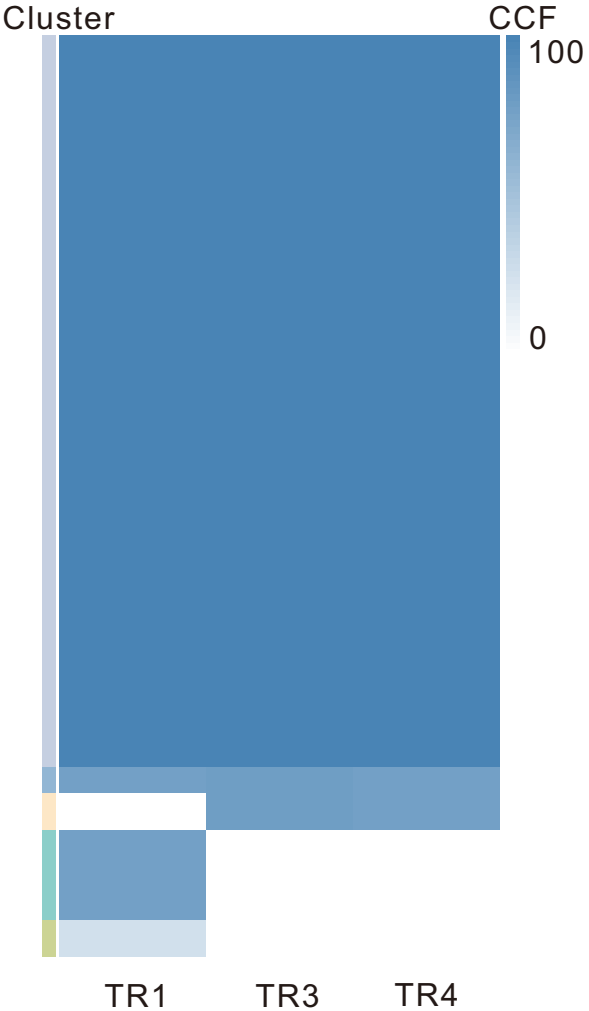
TR5



LN1_ENTD

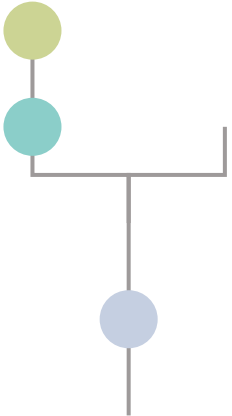


CRC68

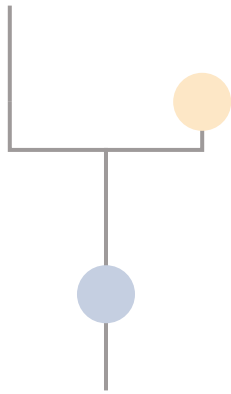


Gene	Cytoband	Type	Cluster
<i>NRAS</i>	1p13.2	SNV	1
<i>PIK3CA</i>	3q26.32	SNV	1
* <i>APC</i>	5q22.2	SNV	1
<i>KRAS</i>	12p12.1	SNV	1
<i>CDH11</i>	16q21	SNV	1
<i>TP53</i>	17p13.1	SNV	1
* <i>APC</i>	5q22.2	InDel	1
<i>SRC</i>	20q11.23	Amp	1
<i>MAFB</i>	20q12	Amp	1
<i>PLCG1</i>	20q12	Amp	1
<i>NFATC2</i>	20q13.2	Amp	1
<i>SALL4</i>	20q13.2	Amp	1
<i>GNAS</i>	20q13.32	Amp	1
<i>PTK6</i>	20q13.33	Amp	1
<i>PRKAR1A</i>	17q24.2	SNV	NA

TR1



TR3



TR4

