

A

Simulated coverage: 80

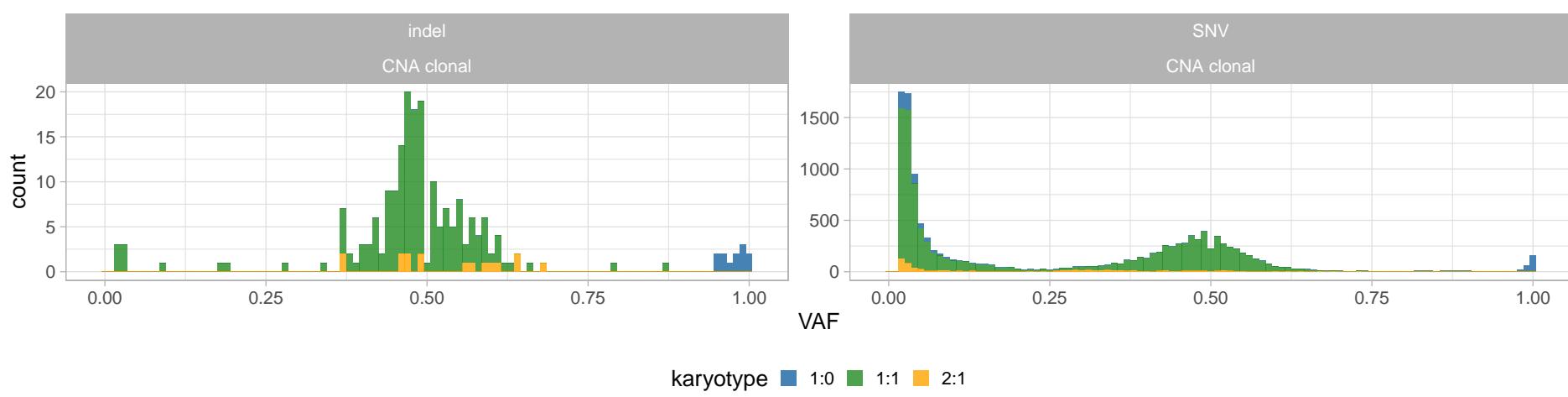
Simulated purity: 0.9

Sequencing Error rate: 0.001

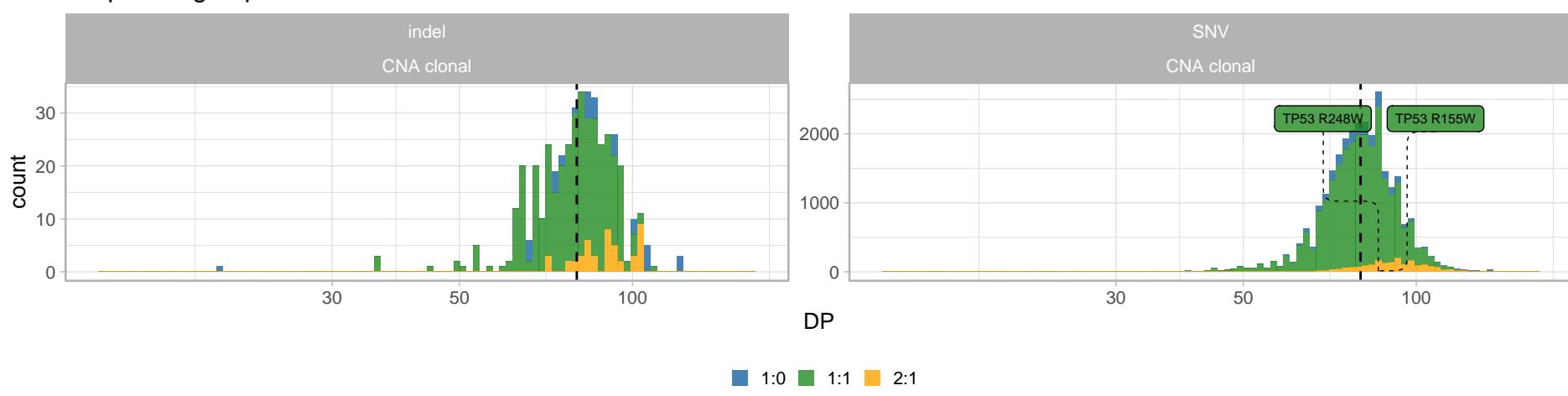
Tumour type: LUAD

Germline subject :default

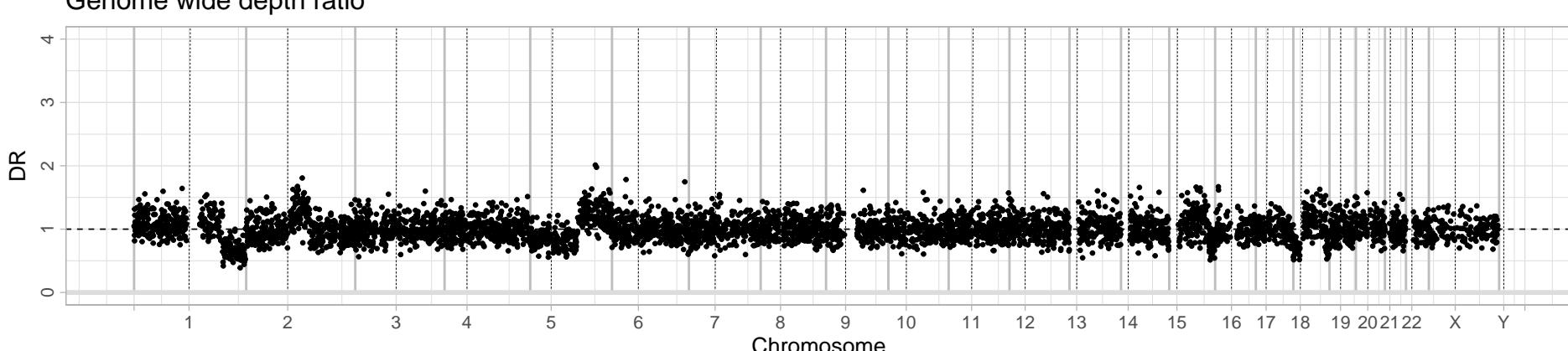
VAF



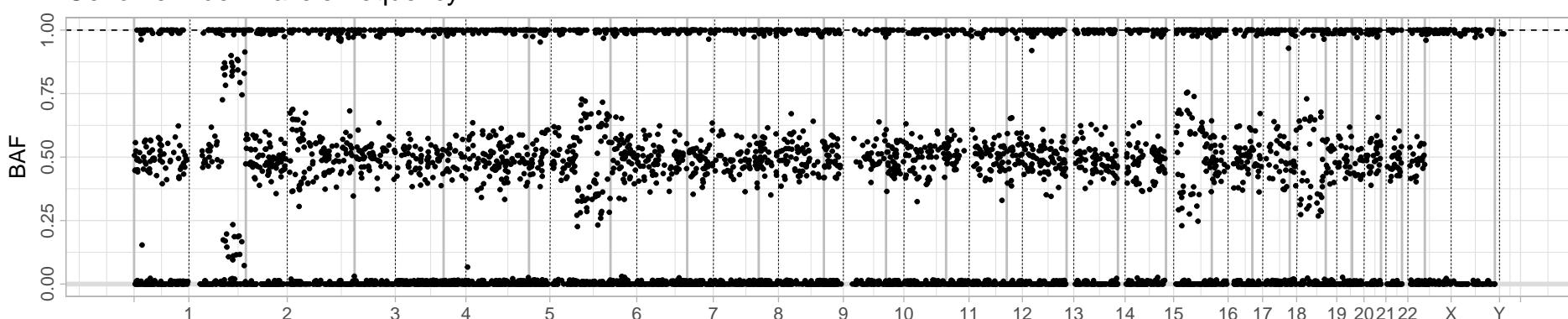
Sequencing depth



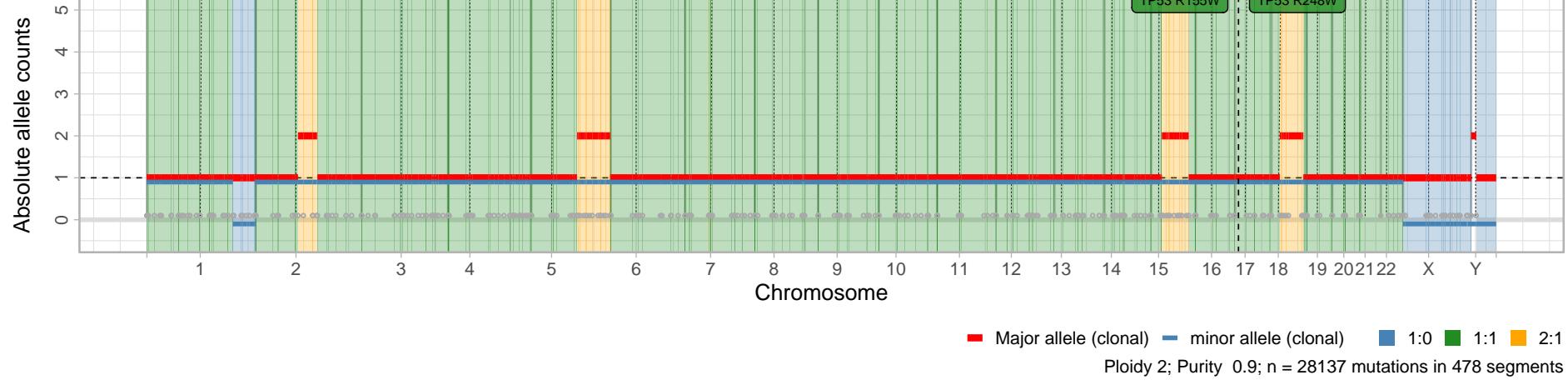
Genome wide depth ratio



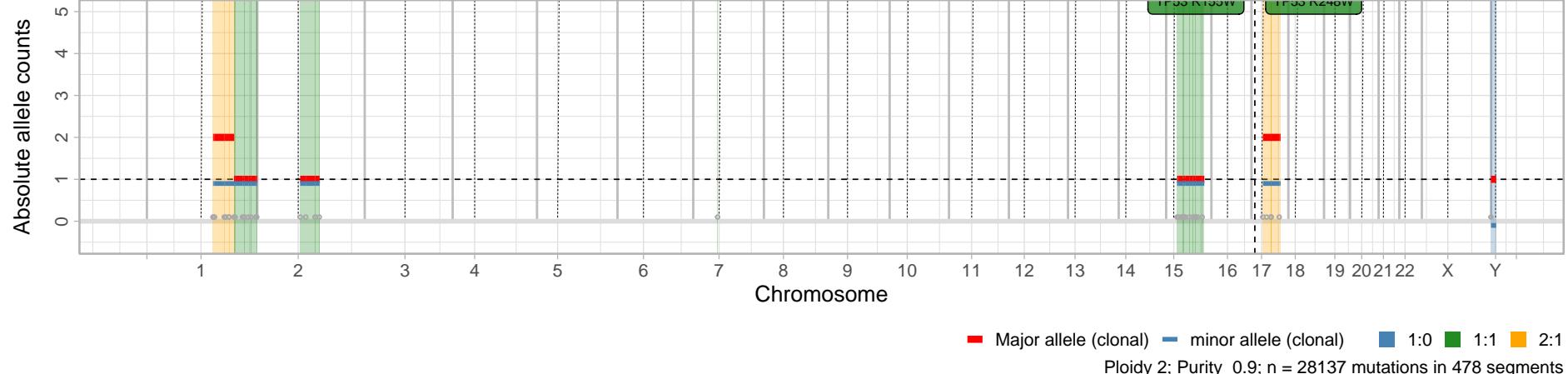
Genome wide B-allele frequency



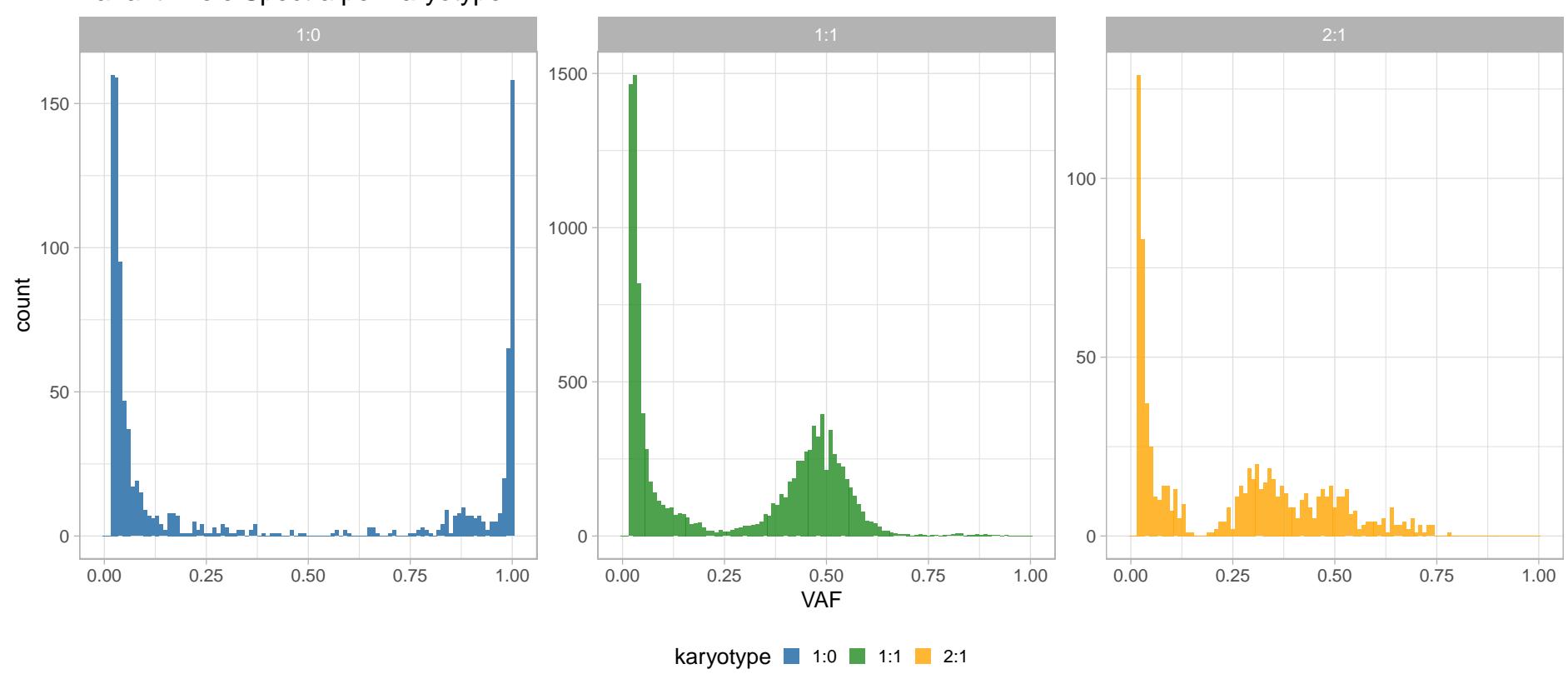
Median fraction of tumour cells: 0.99



Median fraction of tumour cells: 0.13



Variant Allele Spectra per karyotype



B

Simulated coverage: 80

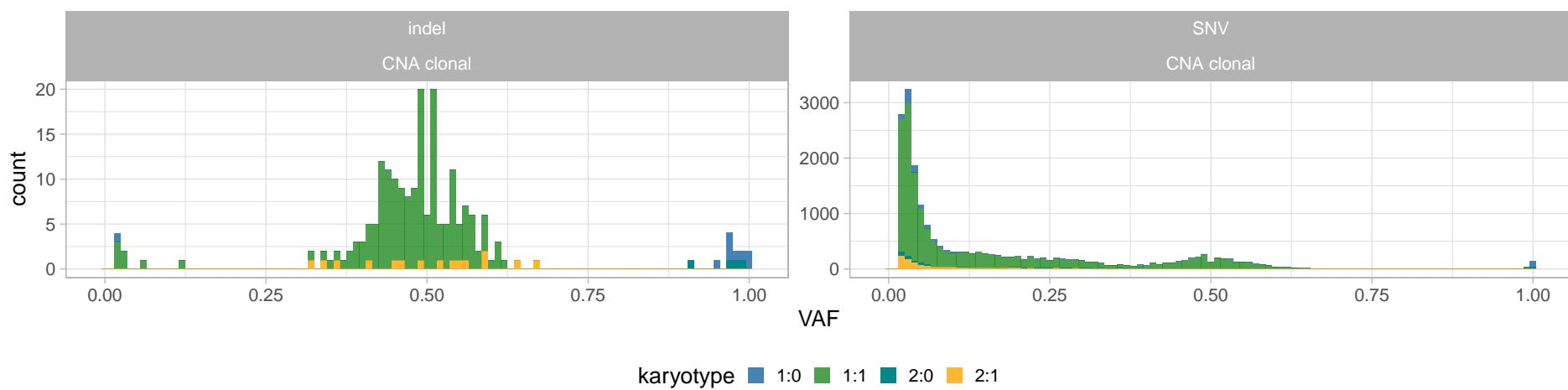
Simulated purity: 0.9

Sequencing Error rate: 0.001

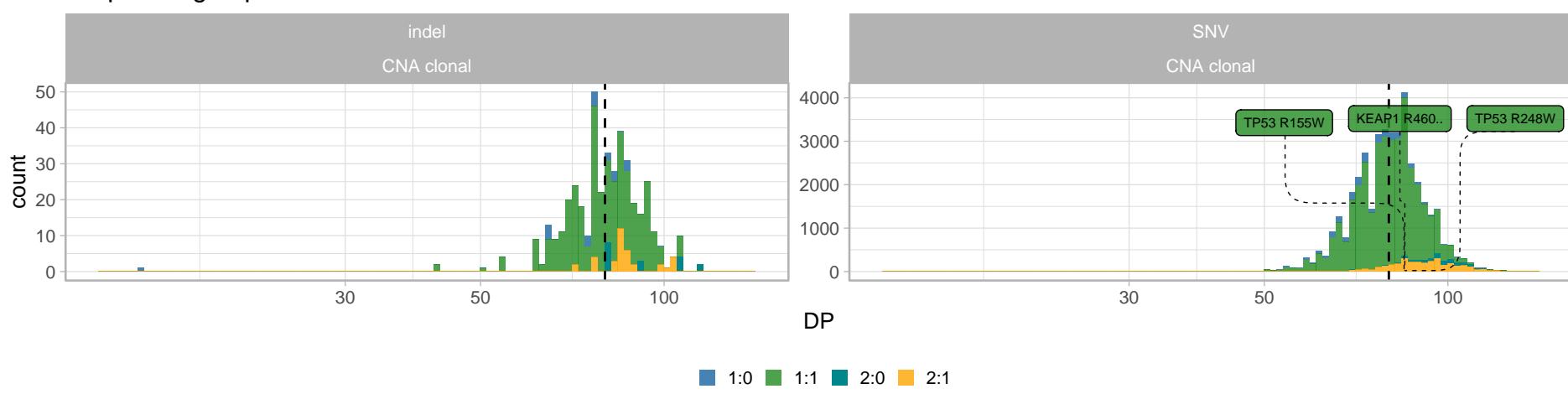
Tumour type: LUAD

Germline subject :default

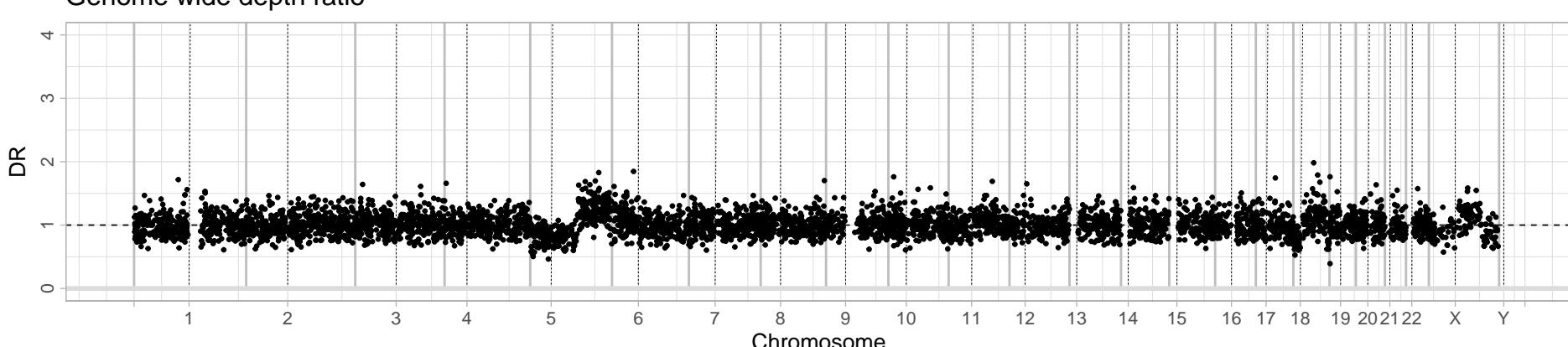
VAF



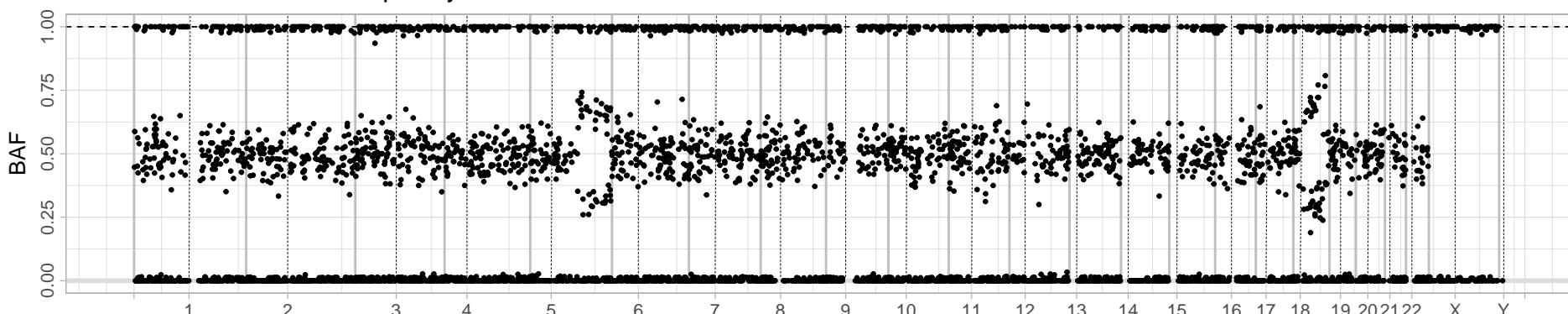
Sequencing depth



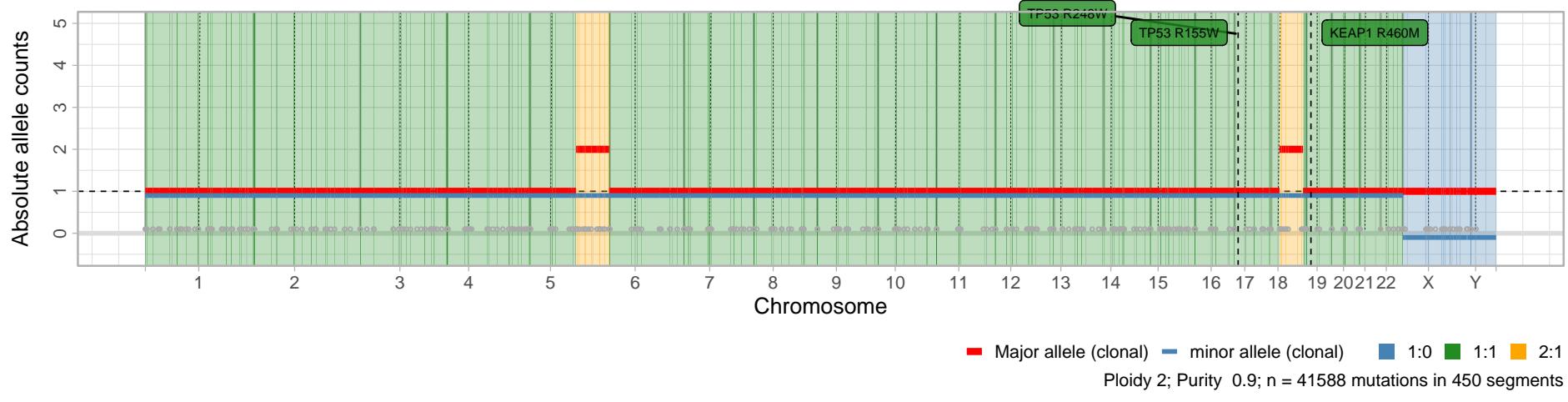
Genome wide depth ratio



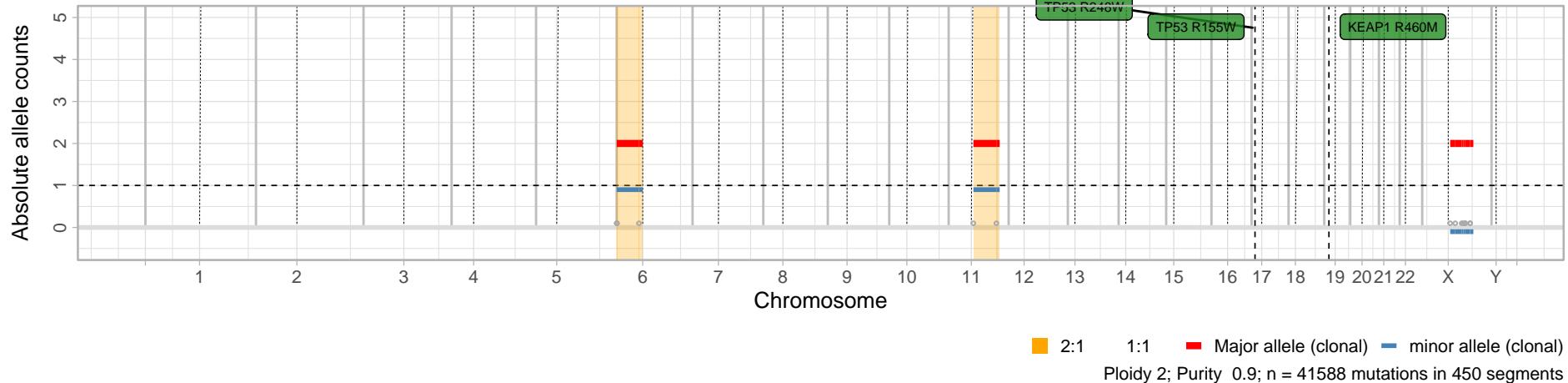
Genome wide B-allele frequency



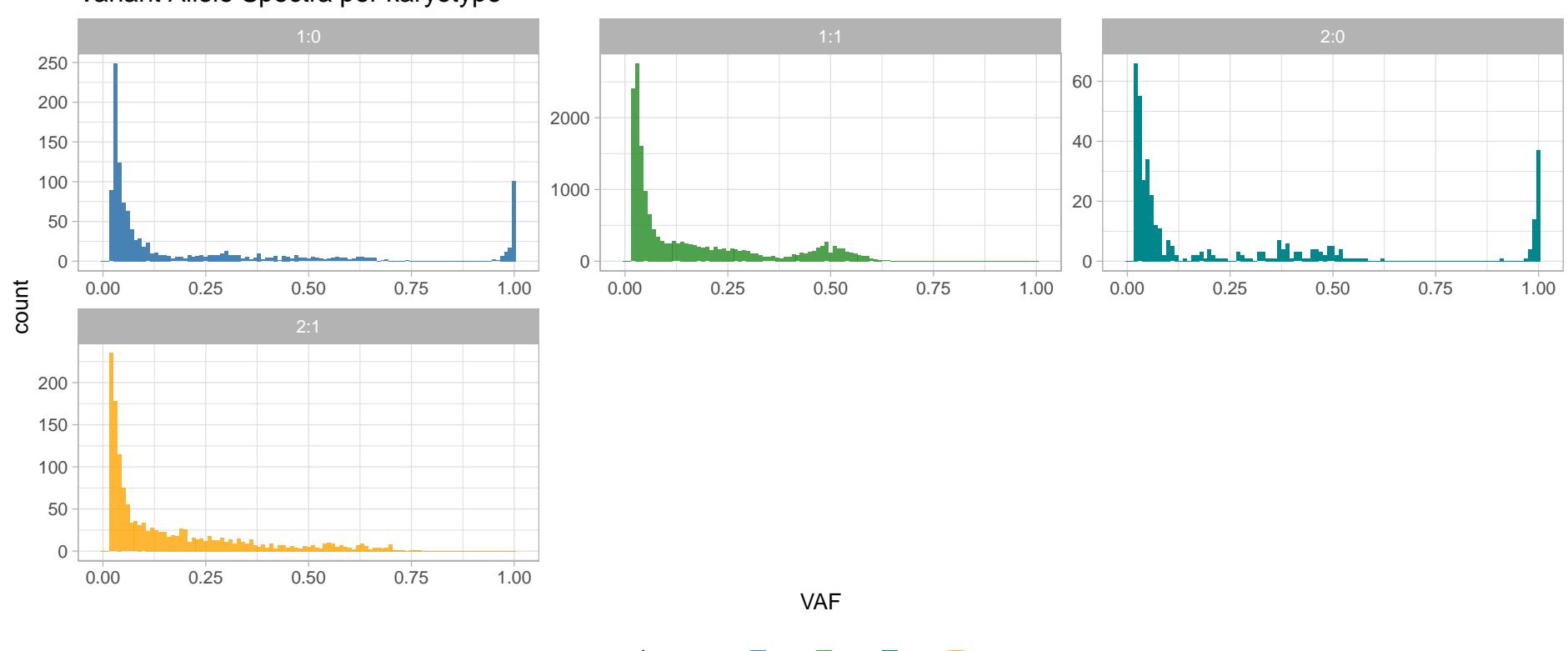
Median fraction of tumour cells: 0.99



Median fraction of tumour cells: 0.21



Variant Allele Spectra per karyotype



C

Simulated coverage: 80

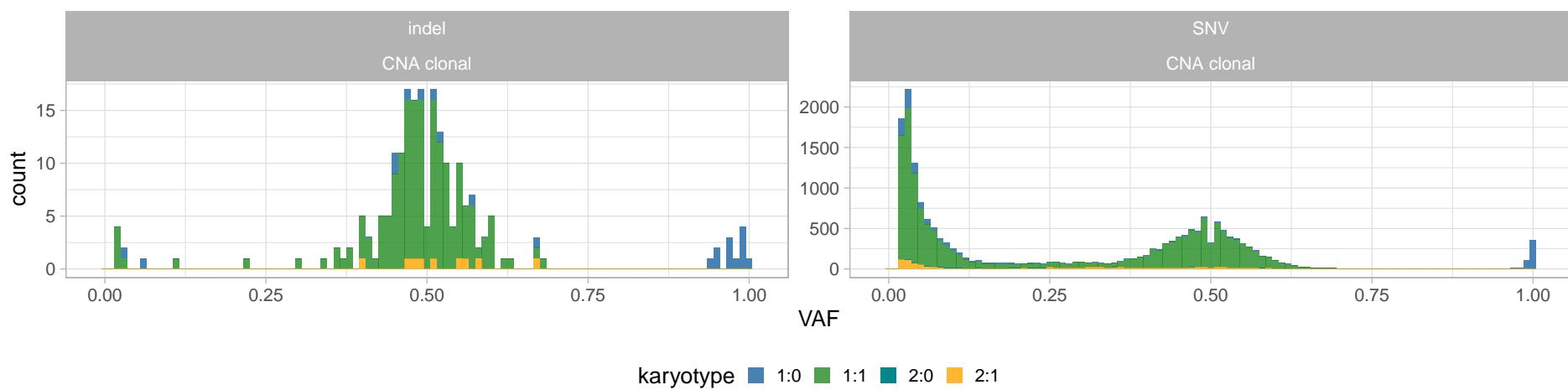
Simulated purity: 0.9

Sequencing Error rate: 0.001

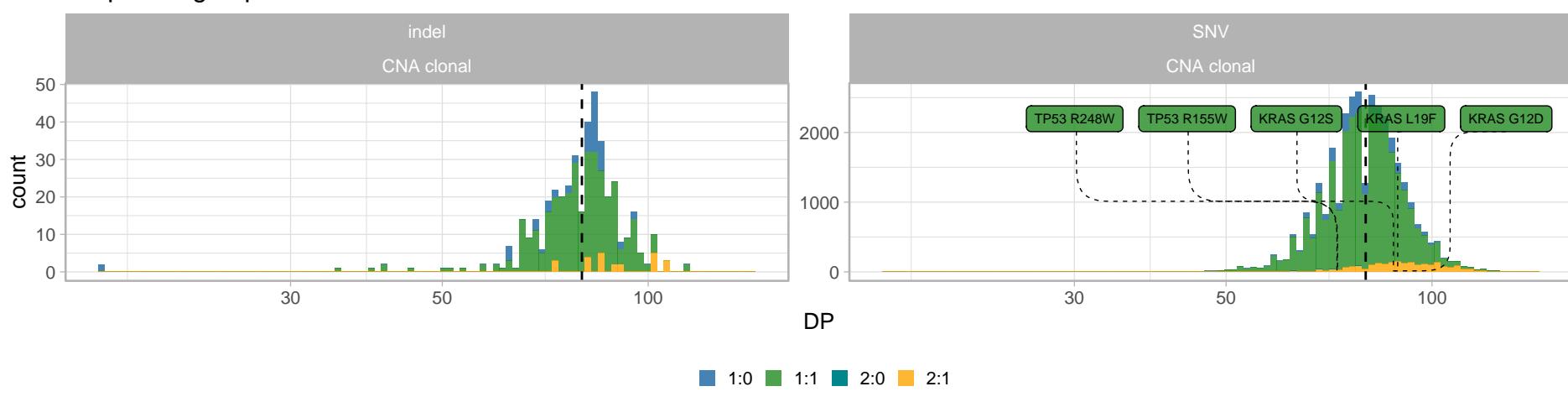
Tumour type: LUAD

Germline subject :default

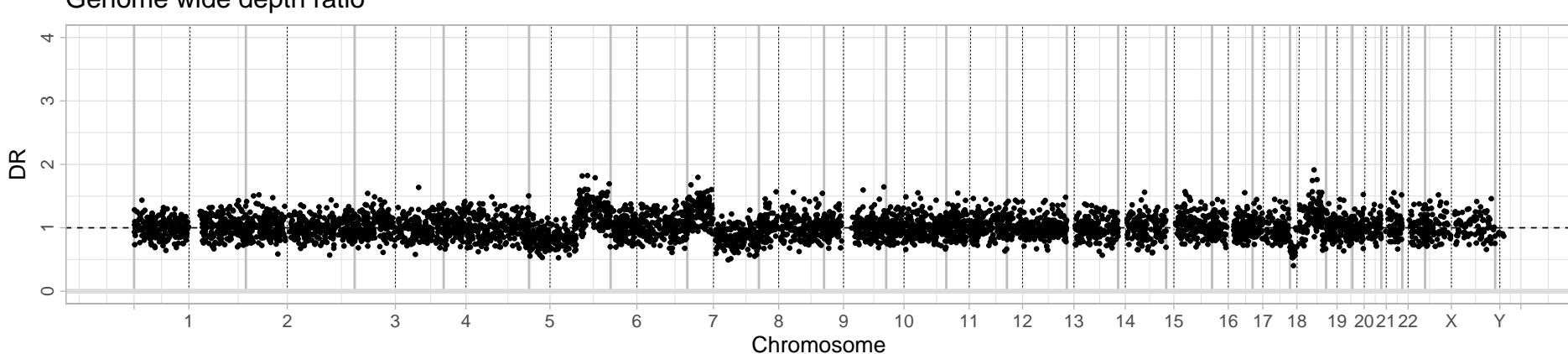
VAF



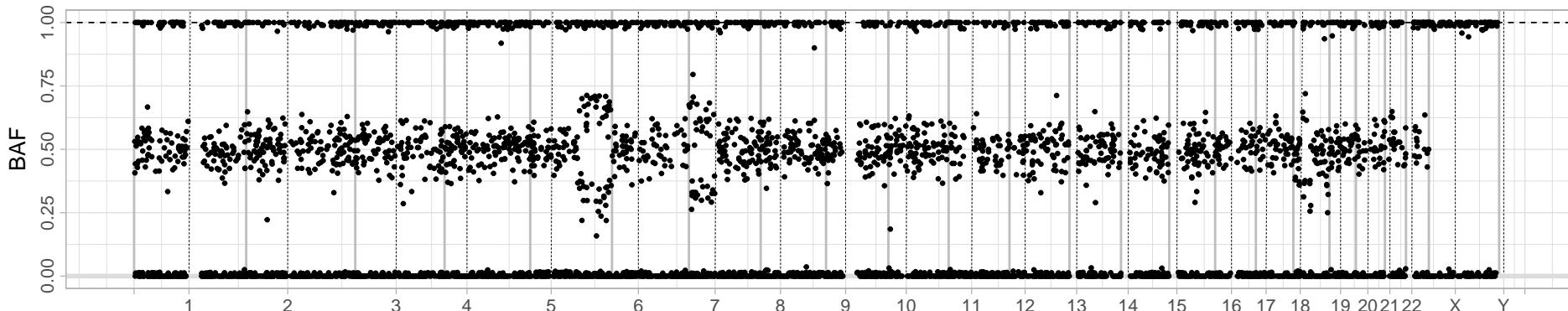
Sequencing depth



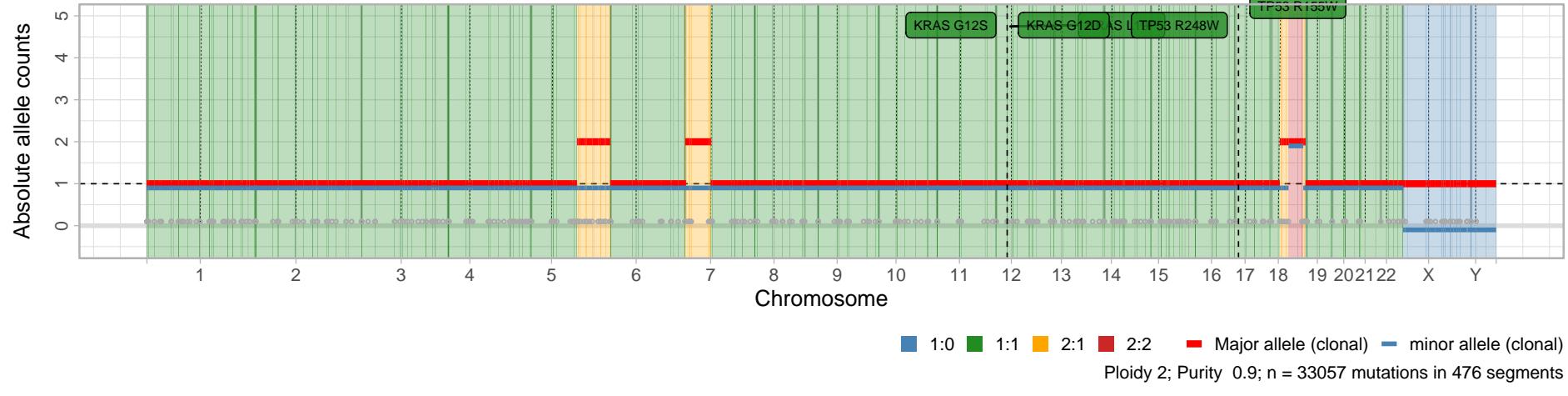
Genome wide depth ratio



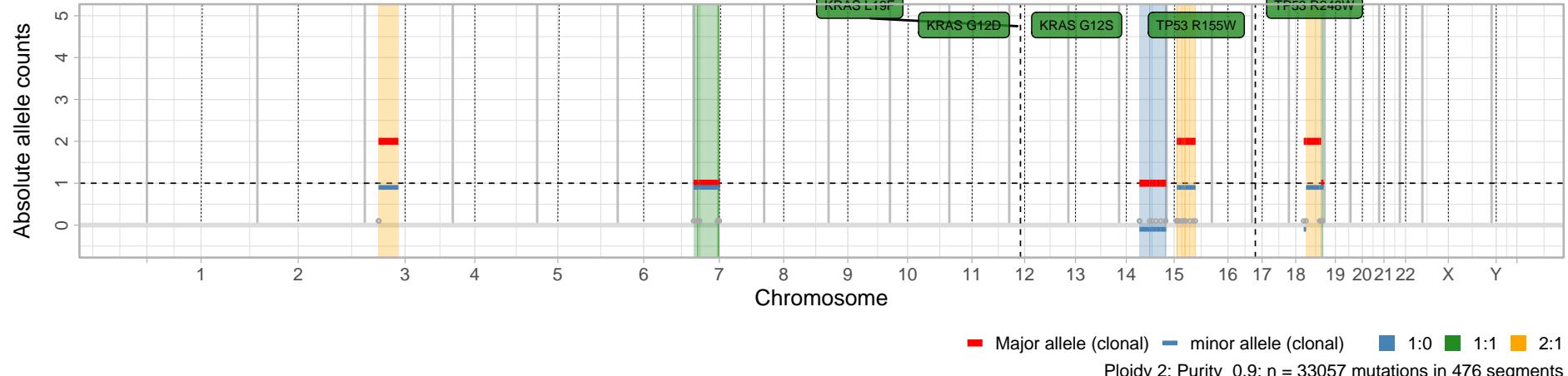
Genome wide B-allele frequency



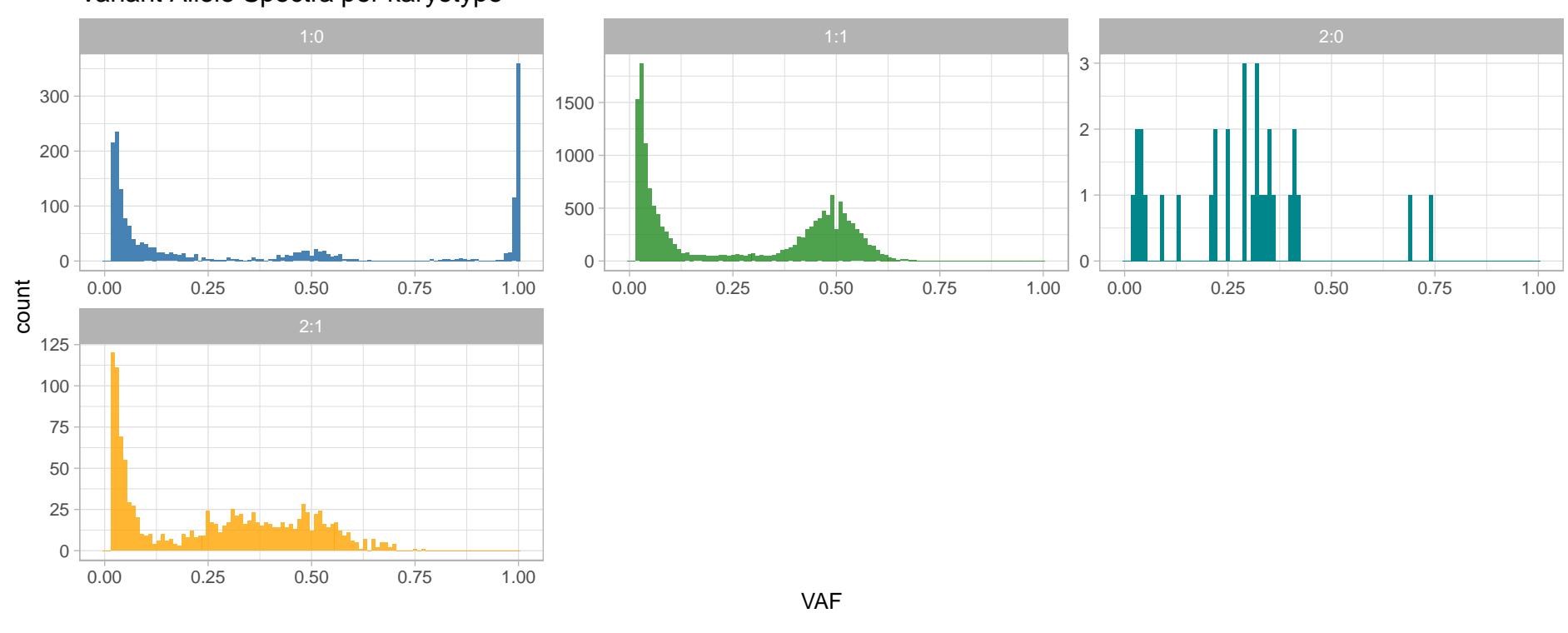
Median fraction of tumour cells: 1



Median fraction of tumour cells: 0.15



Variant Allele Spectra per karyotype



n = 19135; VAF < 0.02 = 13889

D

Simulated coverage: 80

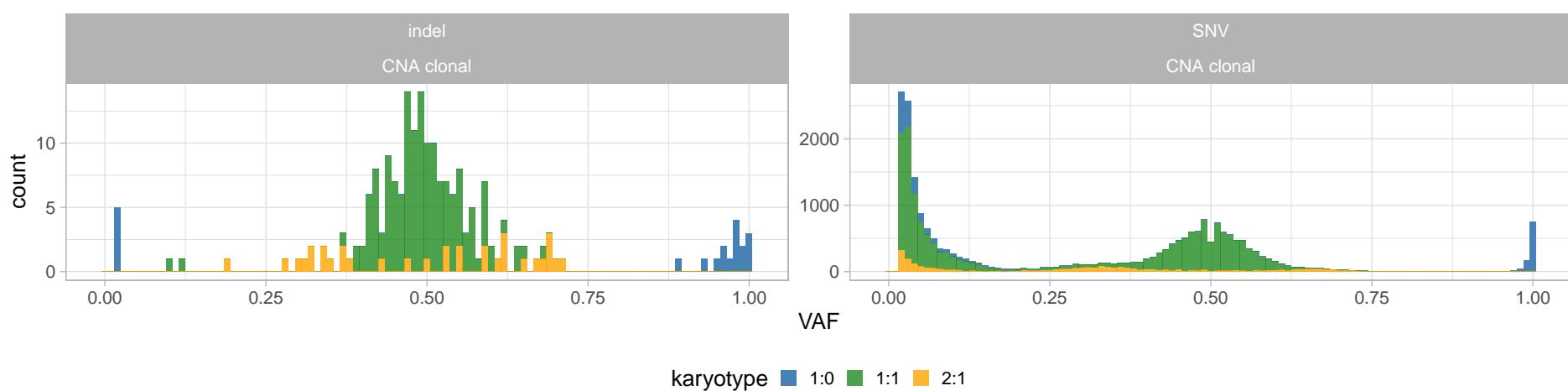
Simulated purity: 0.9

Sequencing Error rate: 0.001

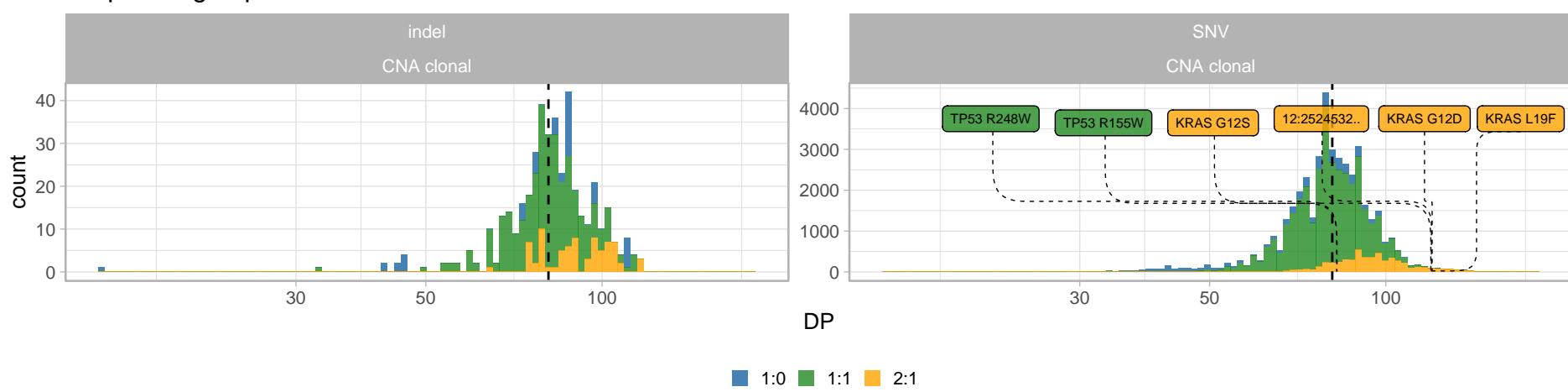
Tumour type: LUAD

Germline subject :default

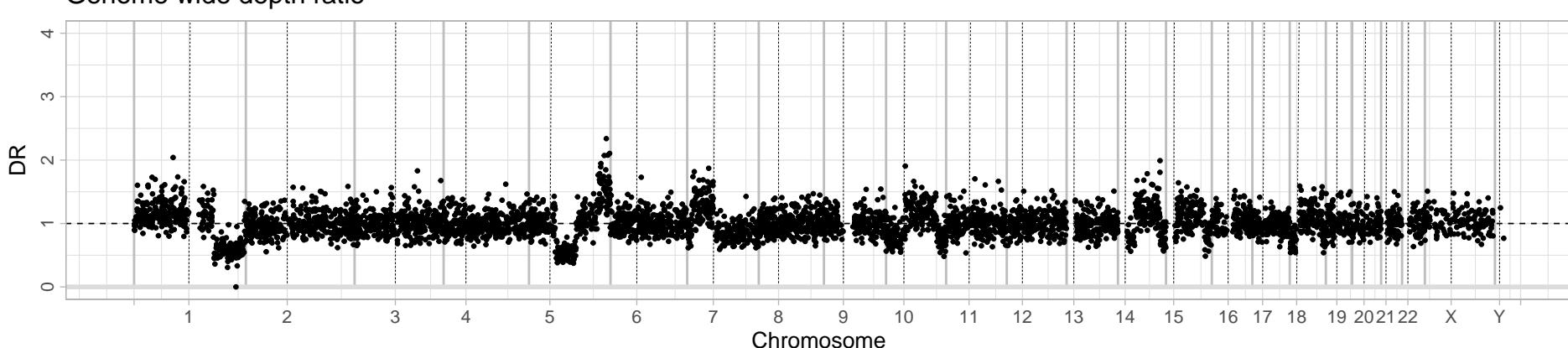
VAF



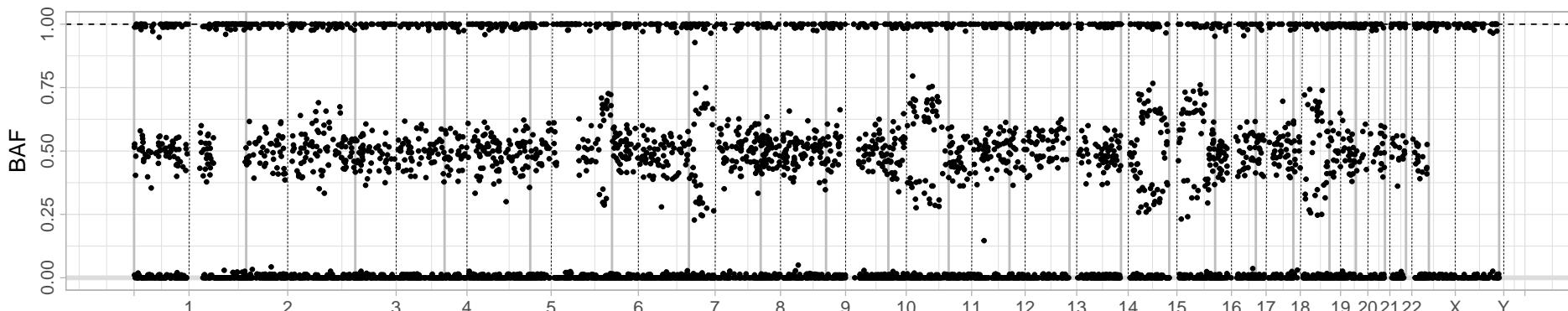
Sequencing depth



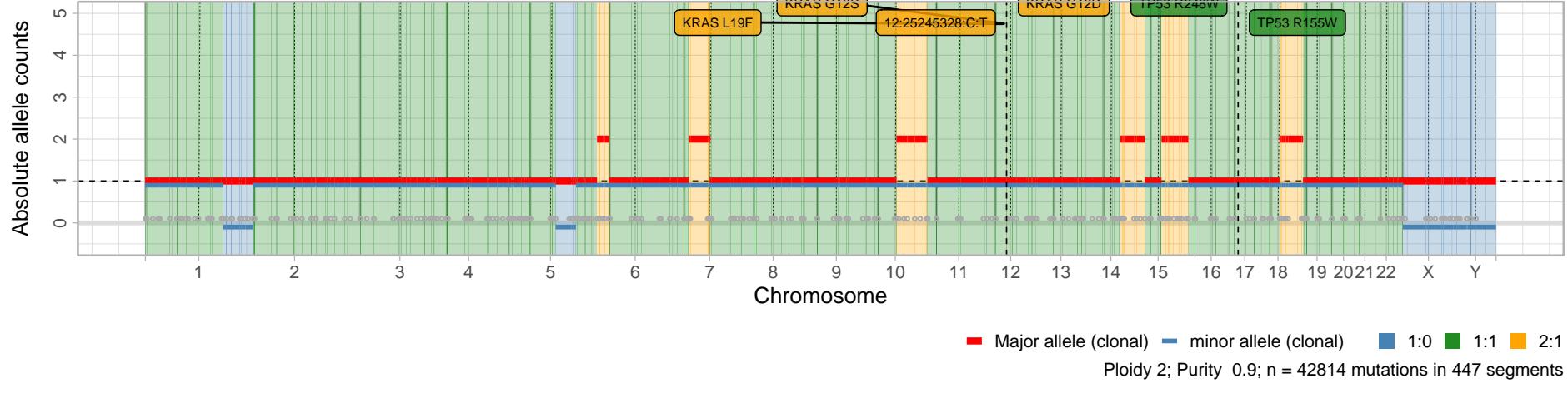
Genome wide depth ratio



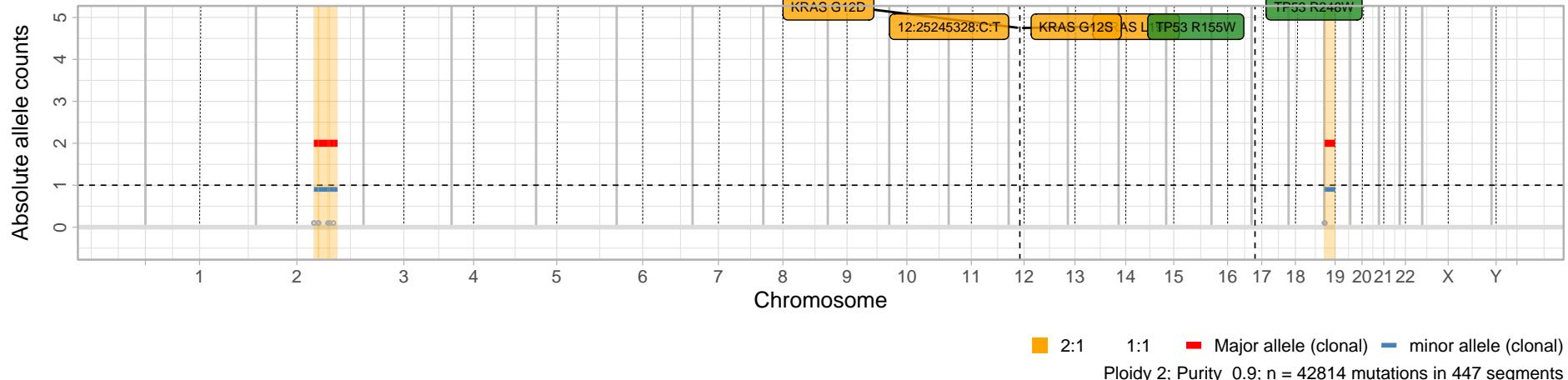
Genome wide B-allele frequency



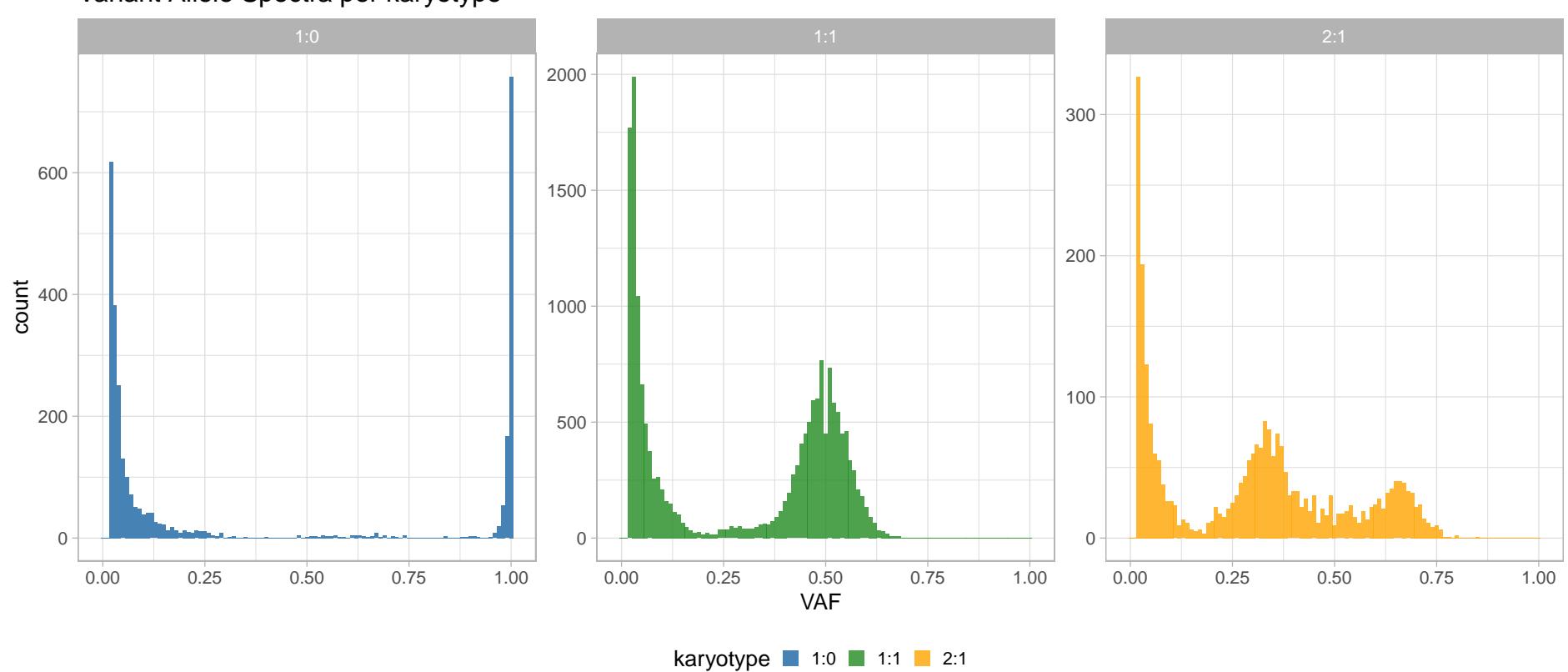
Median fraction of tumour cells: 0.99



Median fraction of tumour cells: 0.23



Variant Allele Spectra per karyotype



E

Simulated coverage: 80

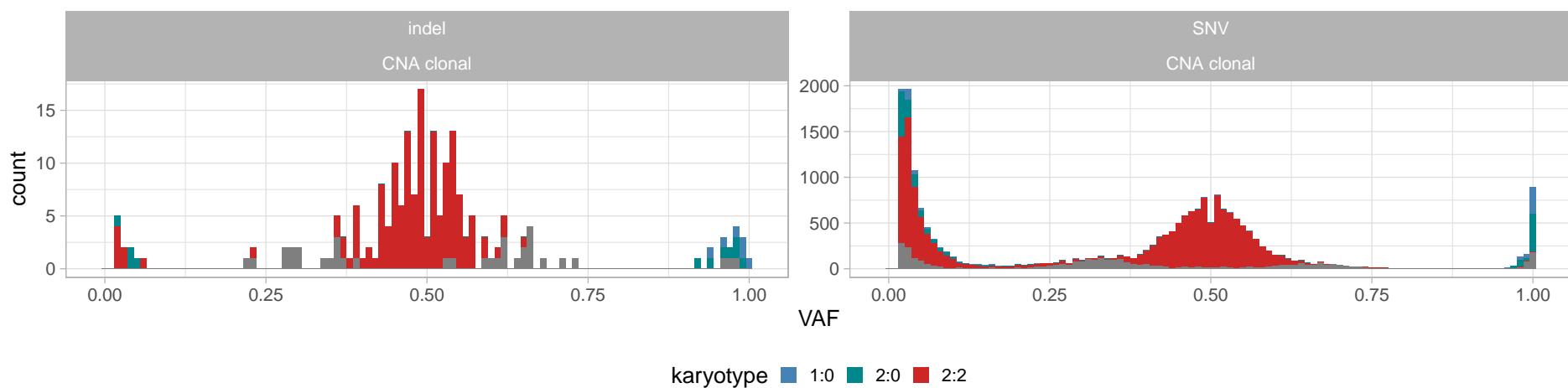
Simulated purity: 0.9

Sequencing Error rate: 0.001

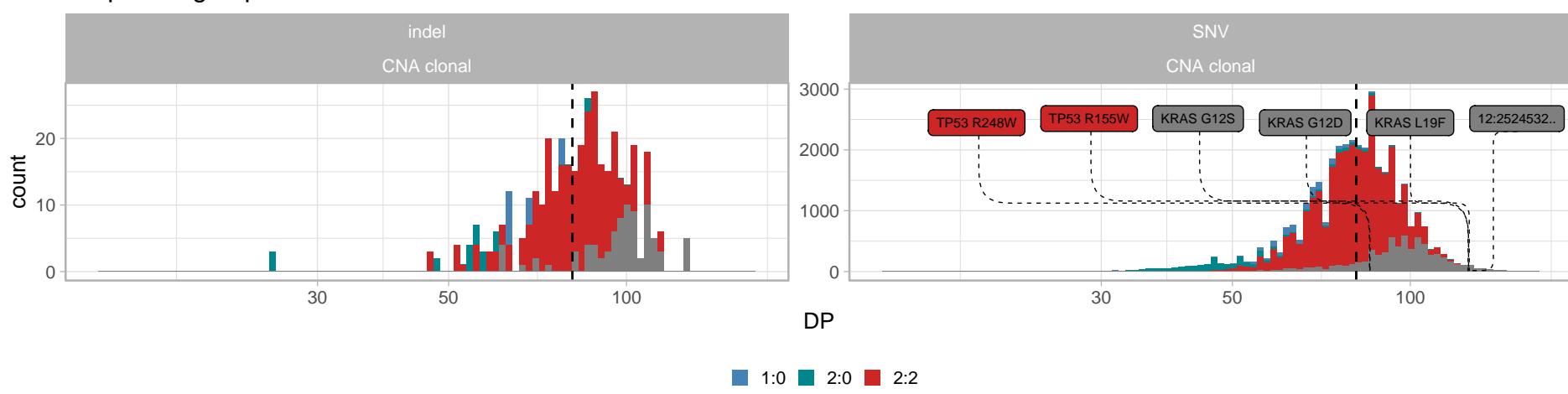
Tumour type: LUAD

Germline subject :default

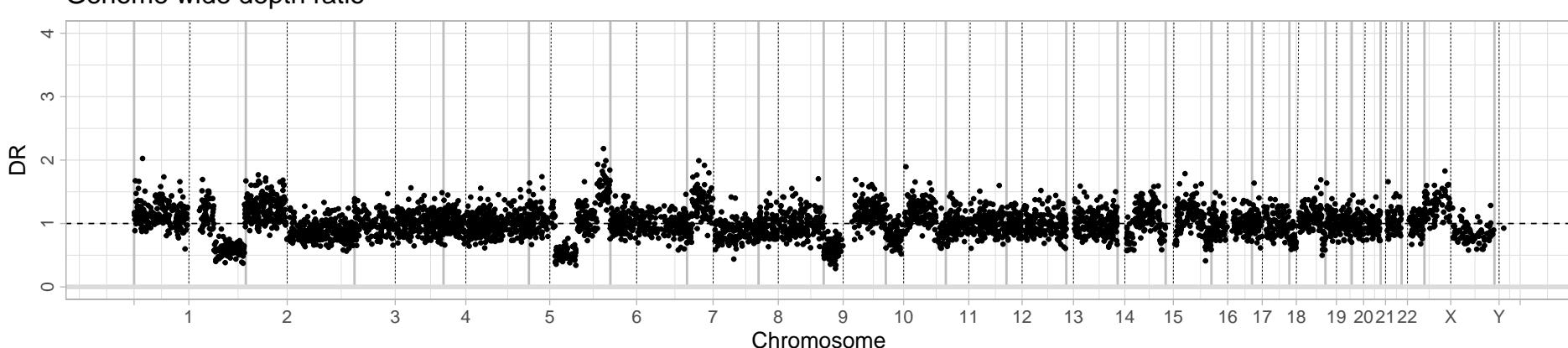
VAF



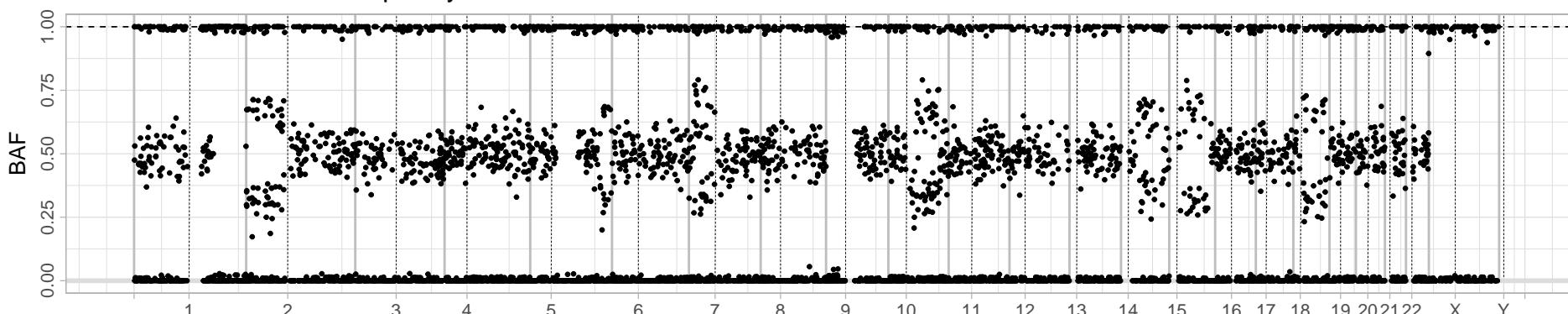
Sequencing depth



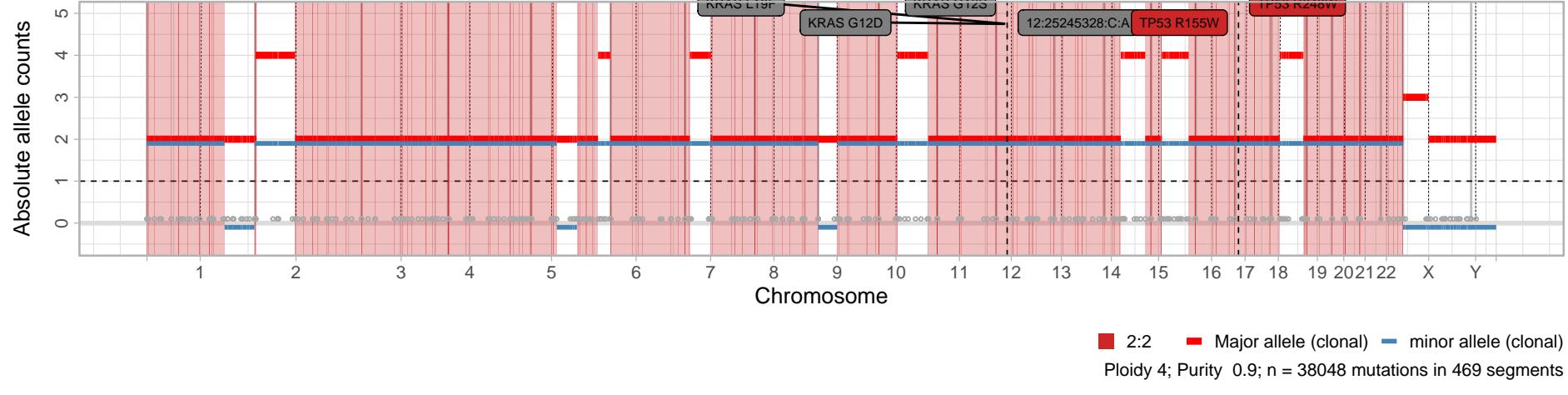
Genome wide depth ratio



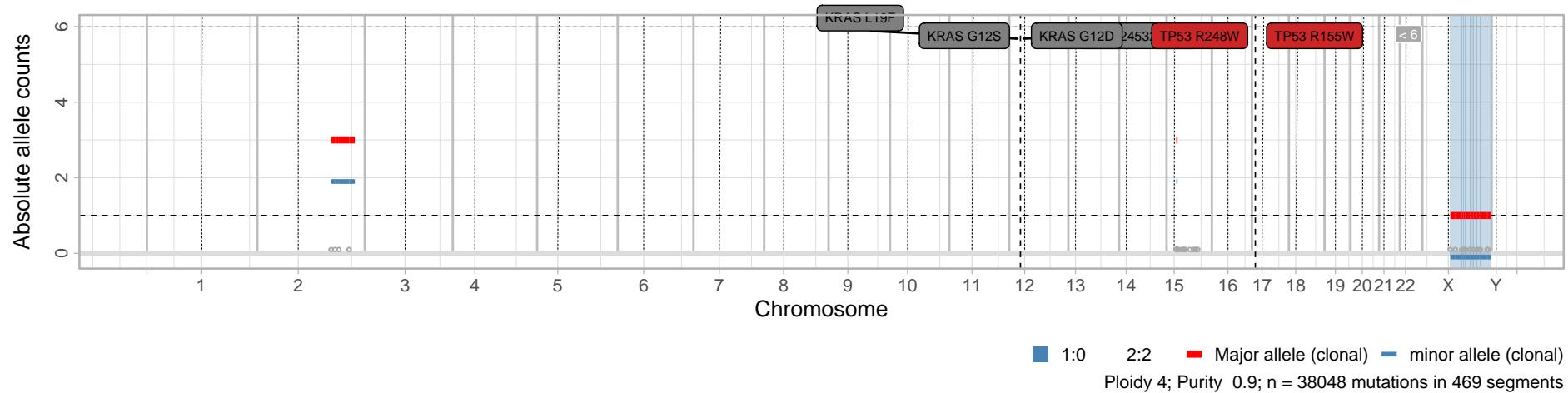
Genome wide B-allele frequency



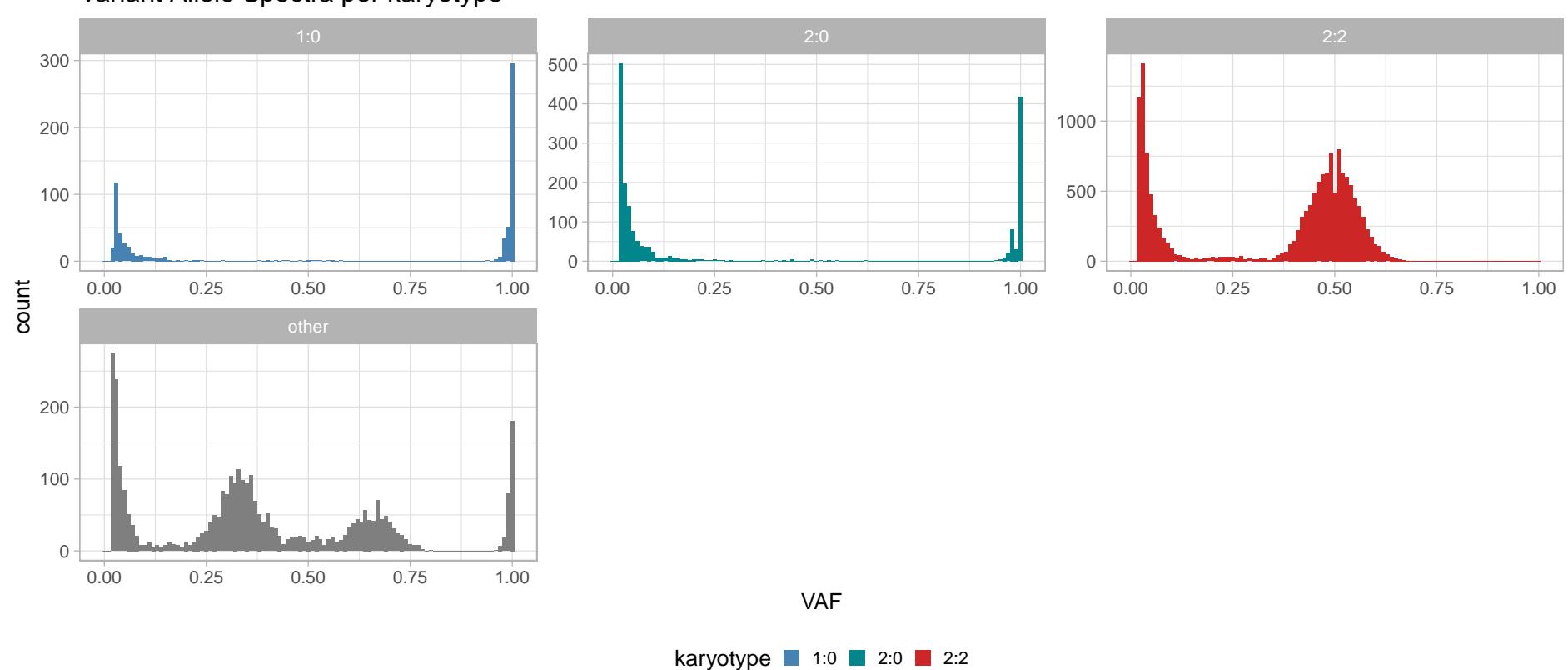
Median fraction of tumour cells: 0.98



Median fraction of tumour cells: 0.17

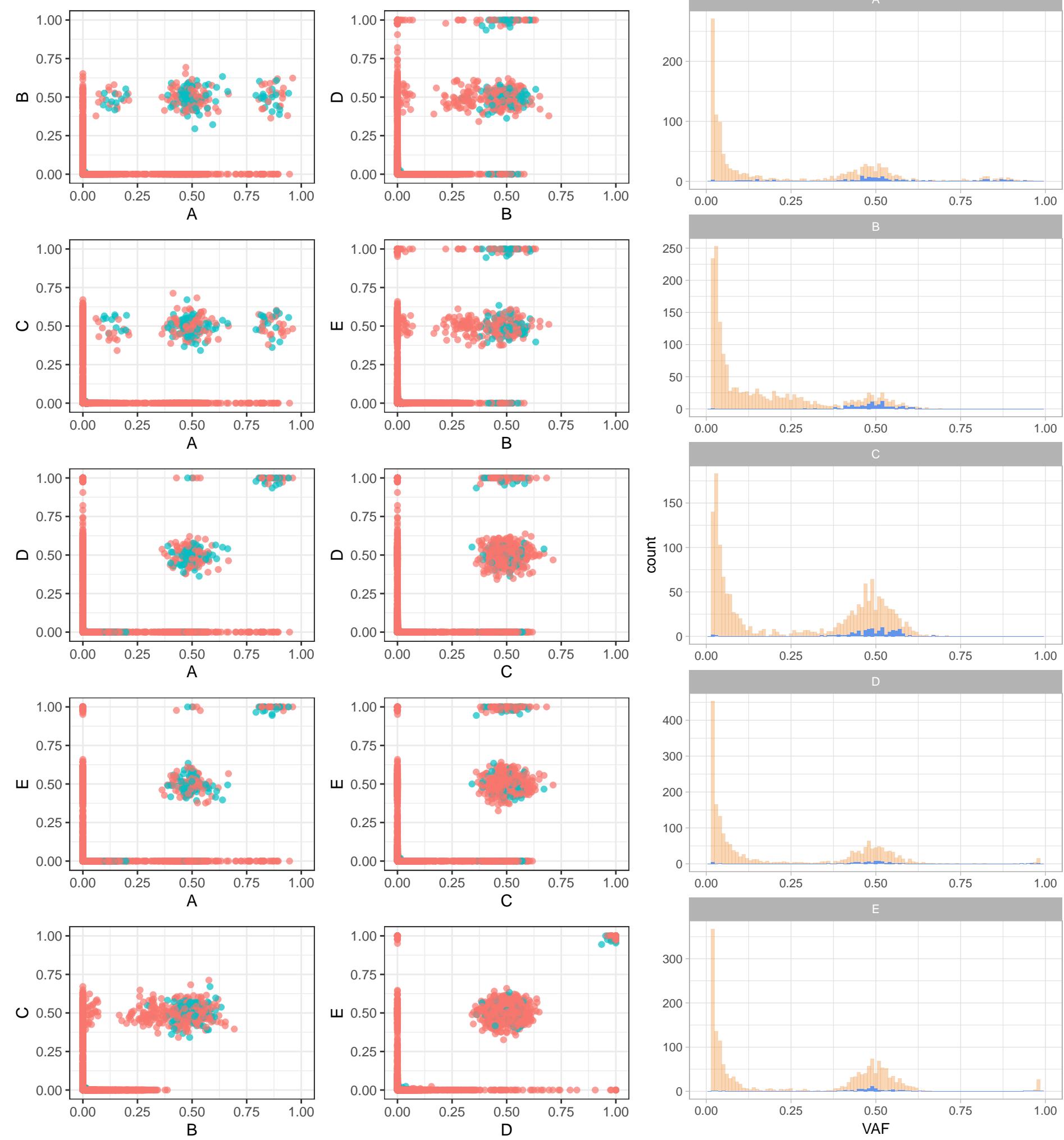


Variant Allele Spectra per karyotype



Chromosome 1

Chromosome 1

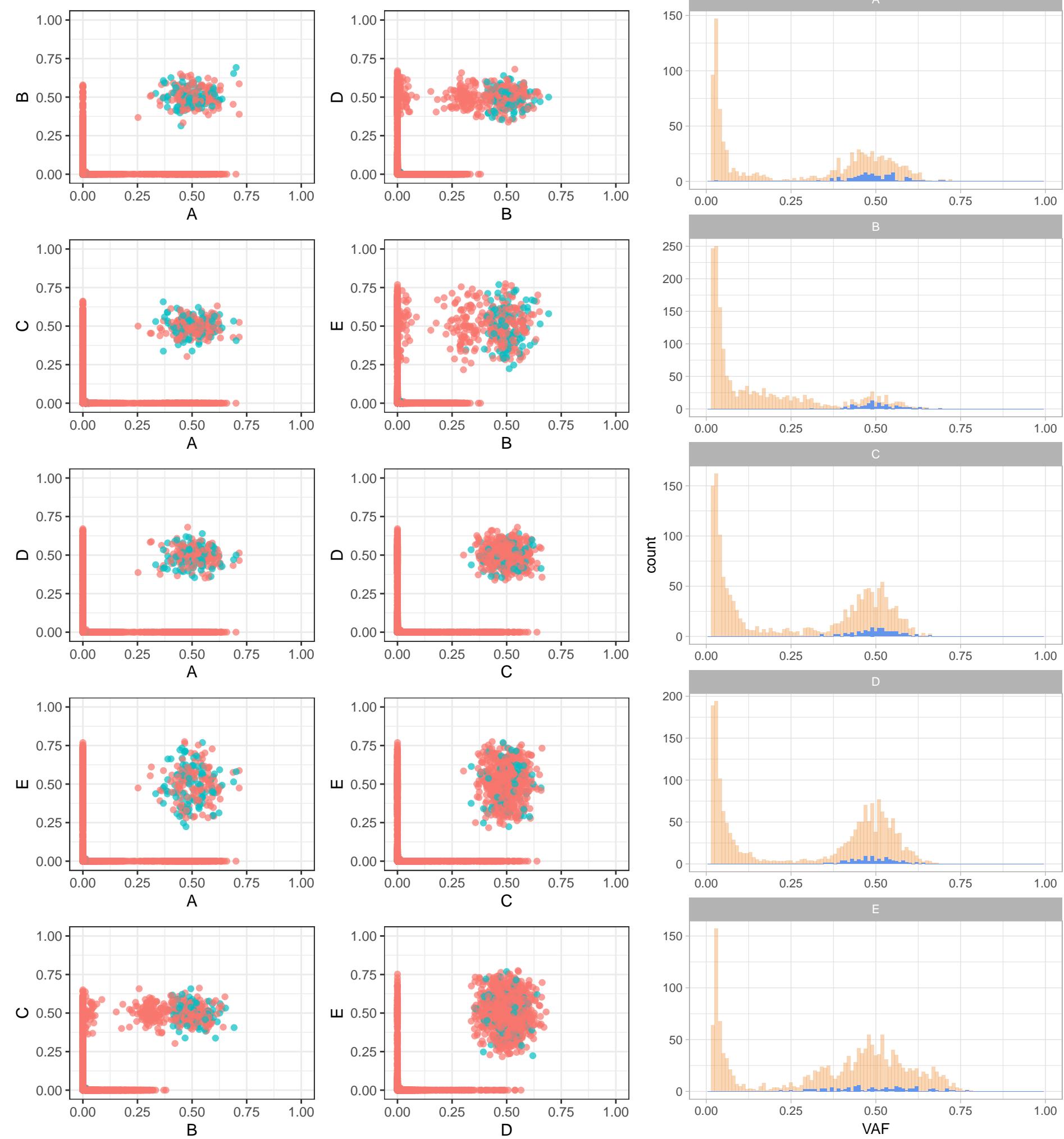


labels ● passenger ● pre-neoplastic

classes ■ passenger ■ pre-neoplastic

Chromosome 2

Chromosome 2

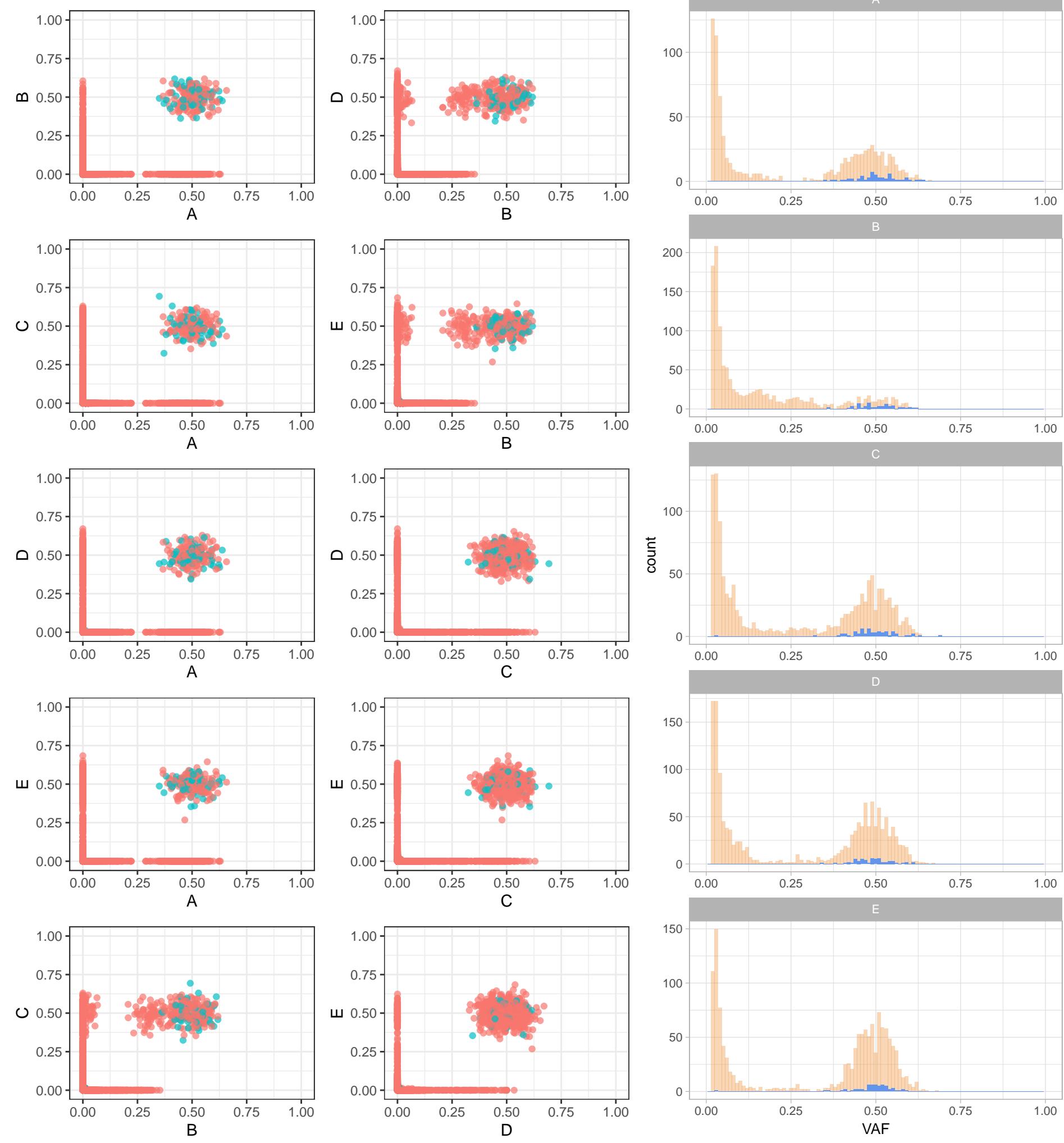


labels ● passenger ● pre-neoplastic

classes ■ passenger ■ pre-neoplastic

Chromosome 3

Chromosome 3

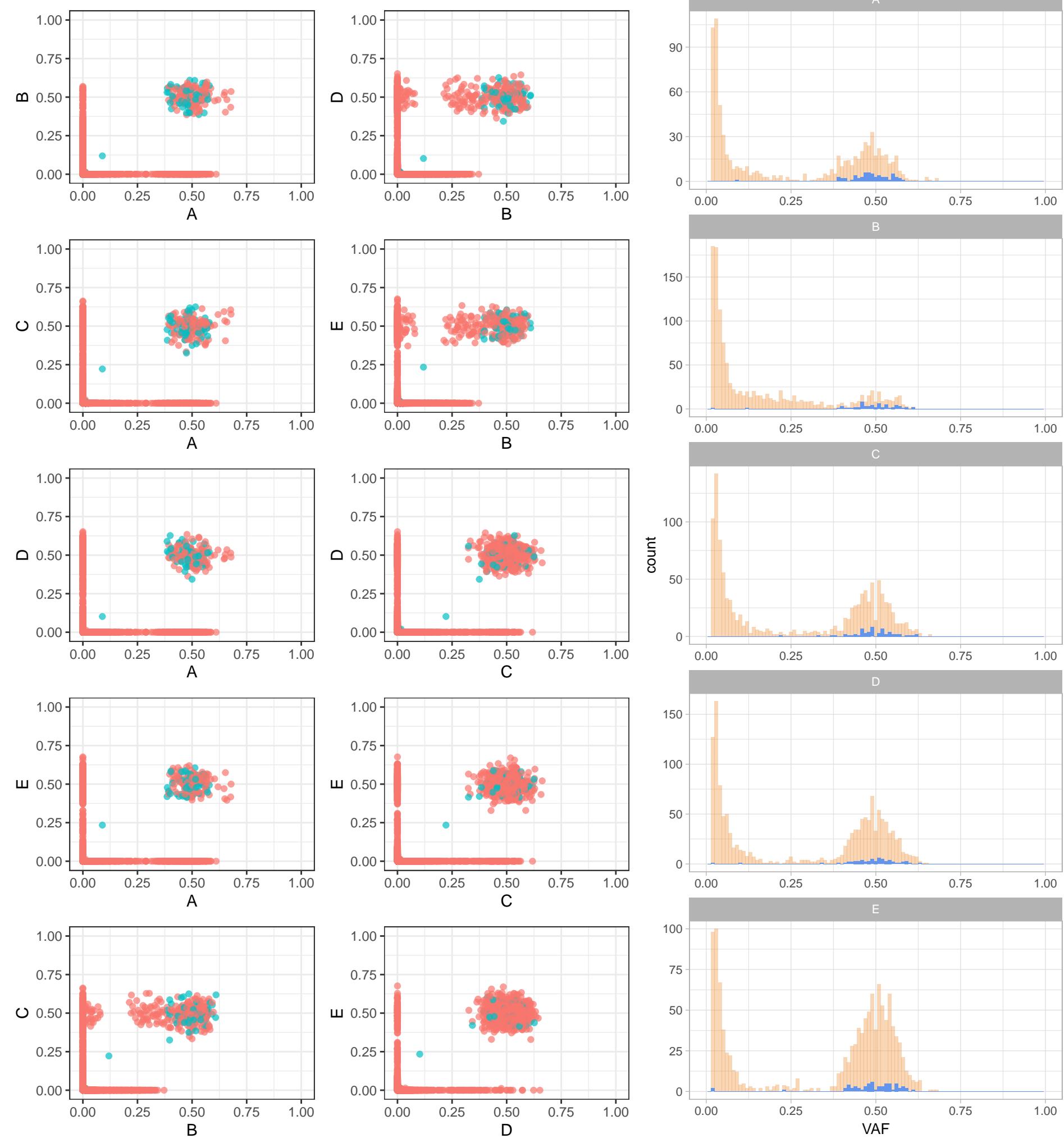


labels ● passenger ● pre-neoplastic

classes ■ passenger ■ pre-neoplastic

Chromosome 4

Chromosome 4



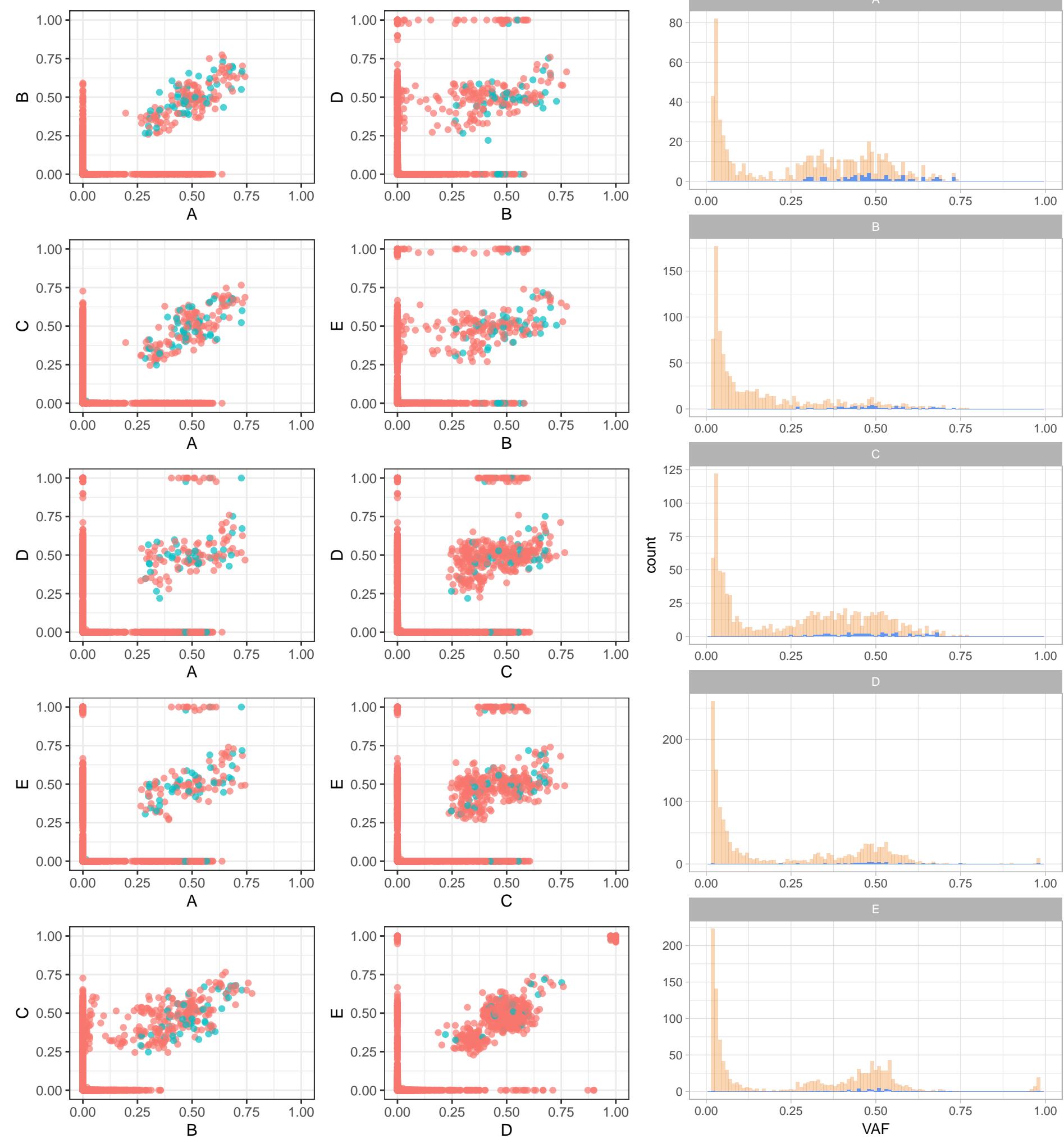
labels

● passenger ● pre-neoplastic

classes ■ passenger ■ pre-neoplastic

Chromosome 5

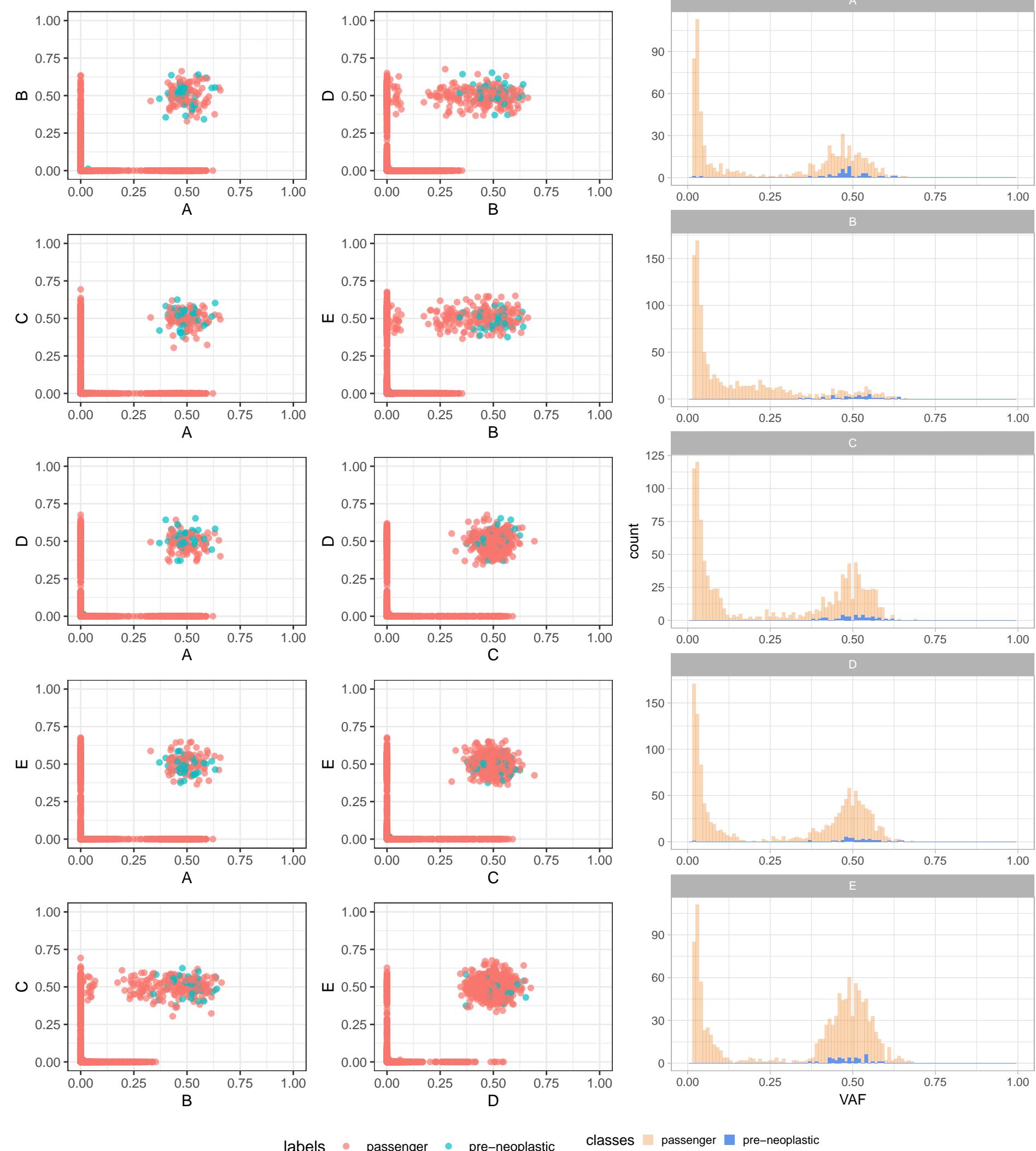
Chromosome 5



labels ● passenger ● pre-neoplastic

classes ● orange ● blue

Chromosome 6



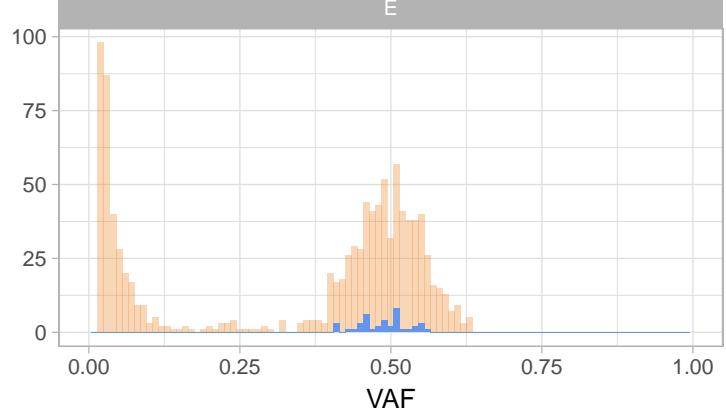
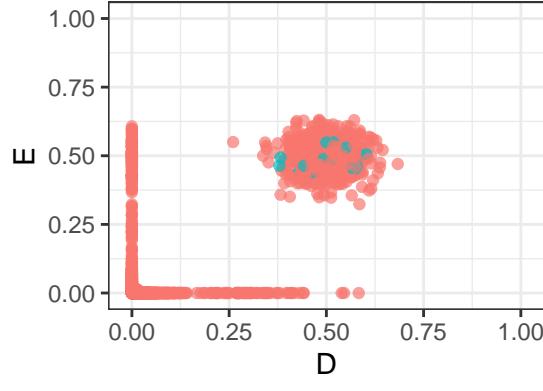
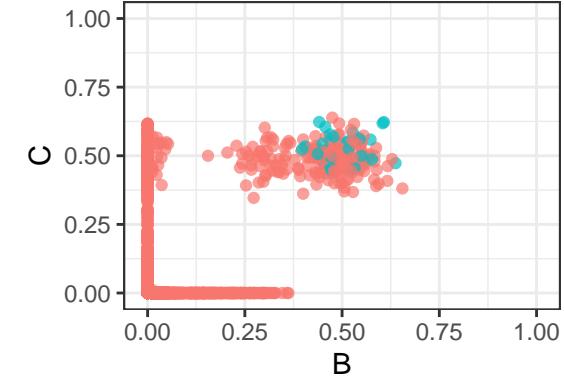
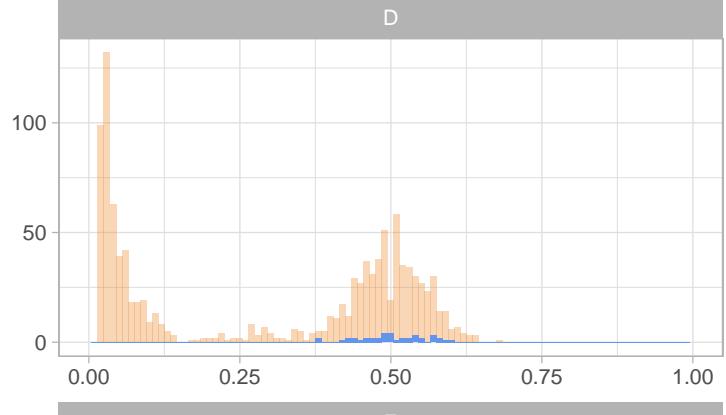
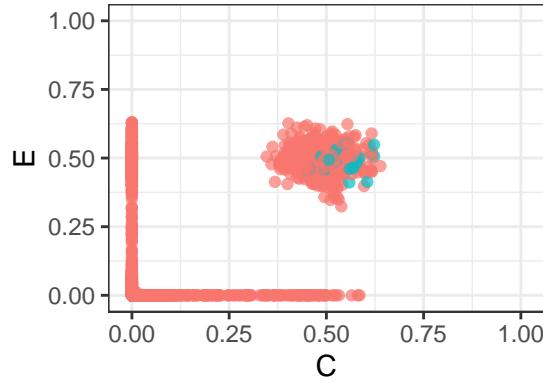
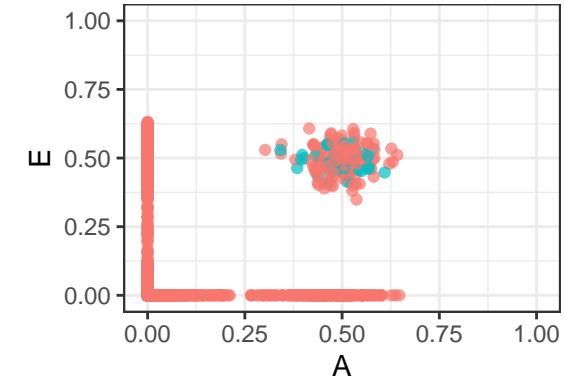
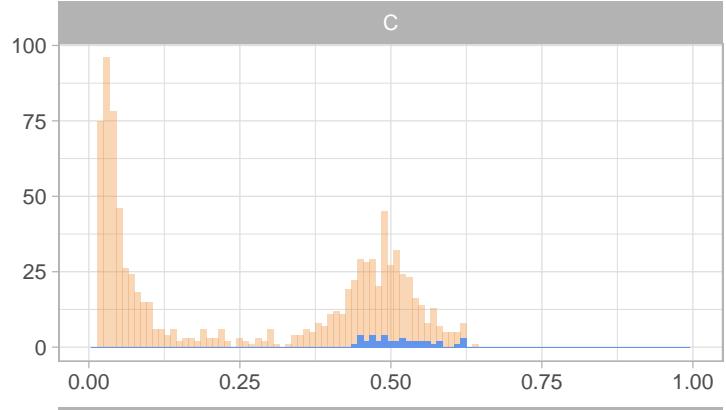
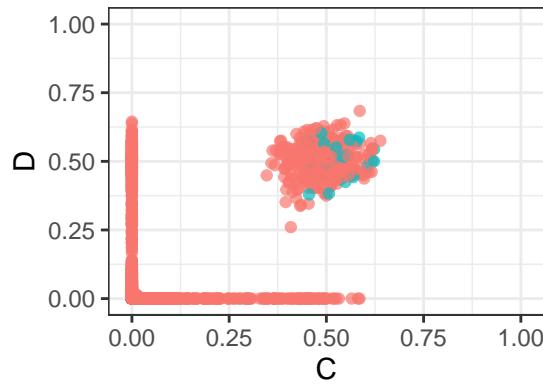
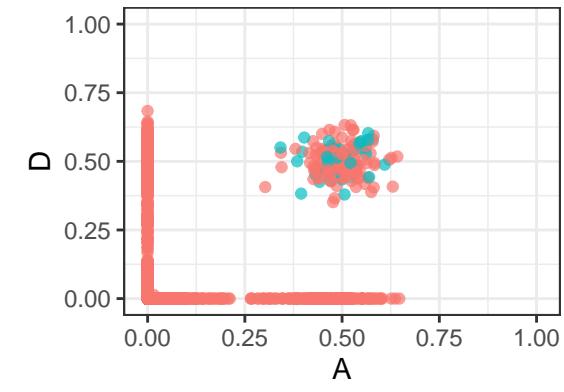
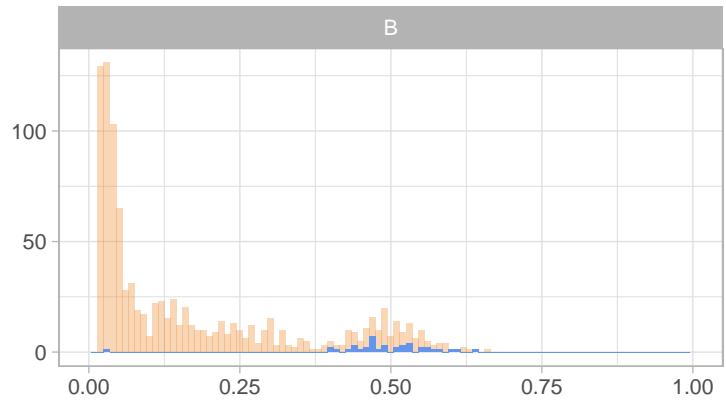
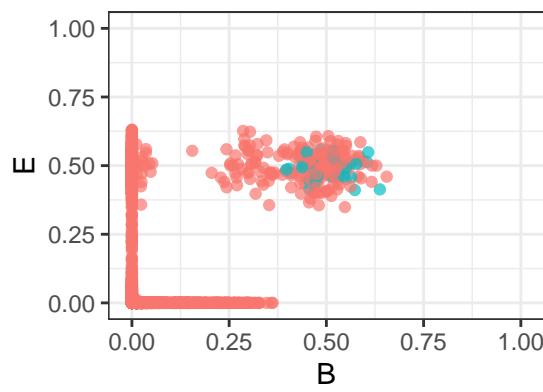
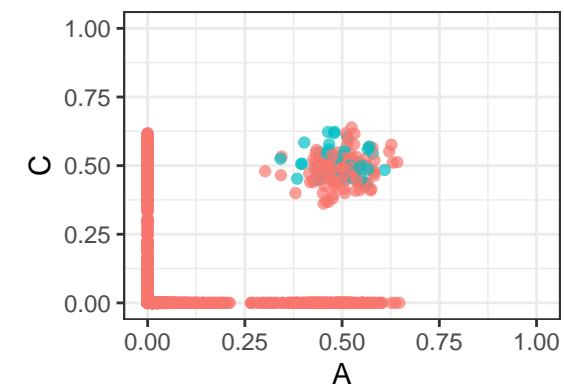
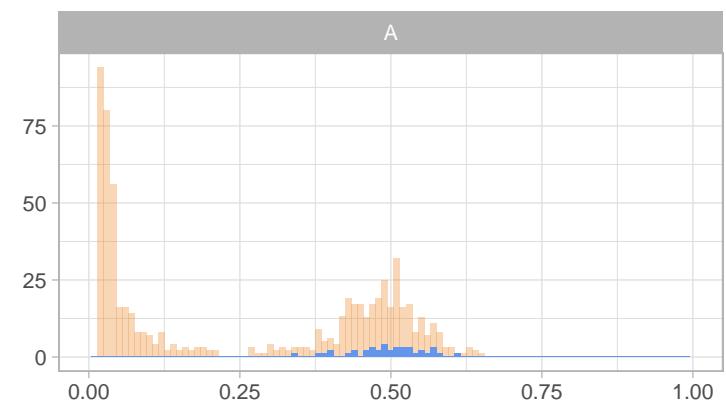
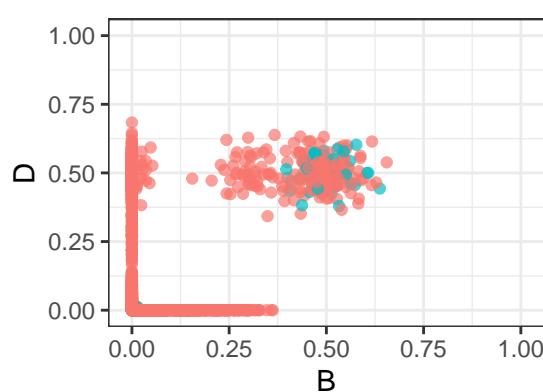
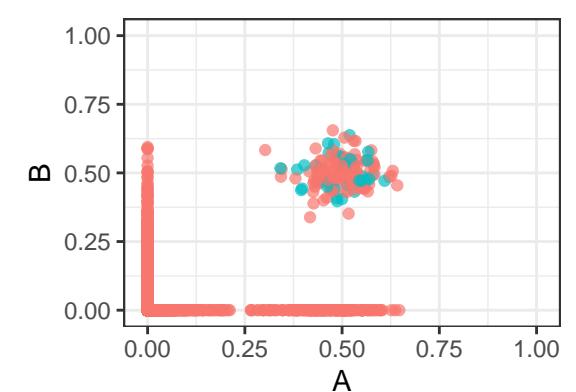
Chromosome 7

Chromosome 7



Chromosome 8

Chromosome 8

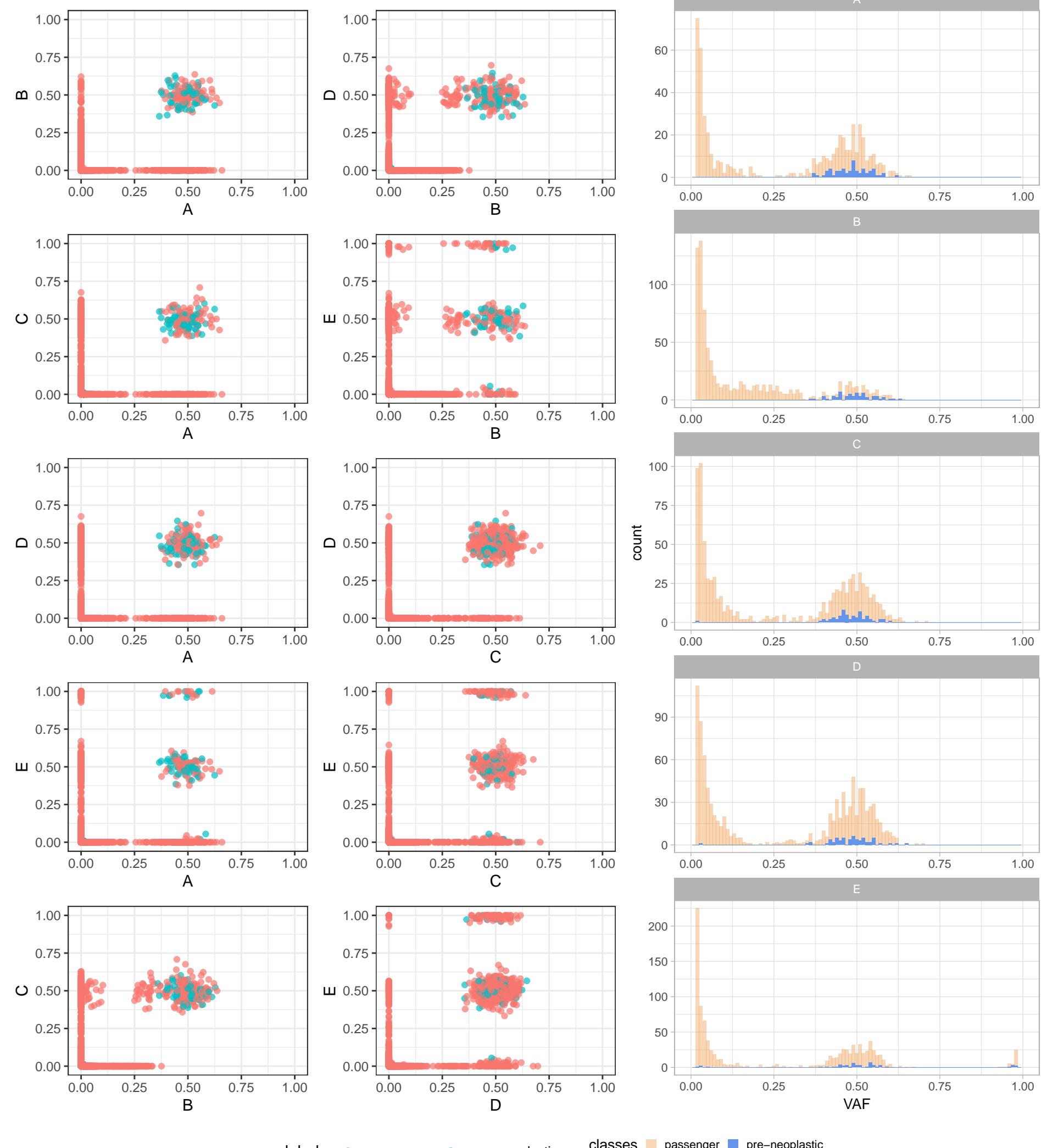


labels ● passenger ● pre-neoplastic

classes ■ passenger ■ pre-neoplastic

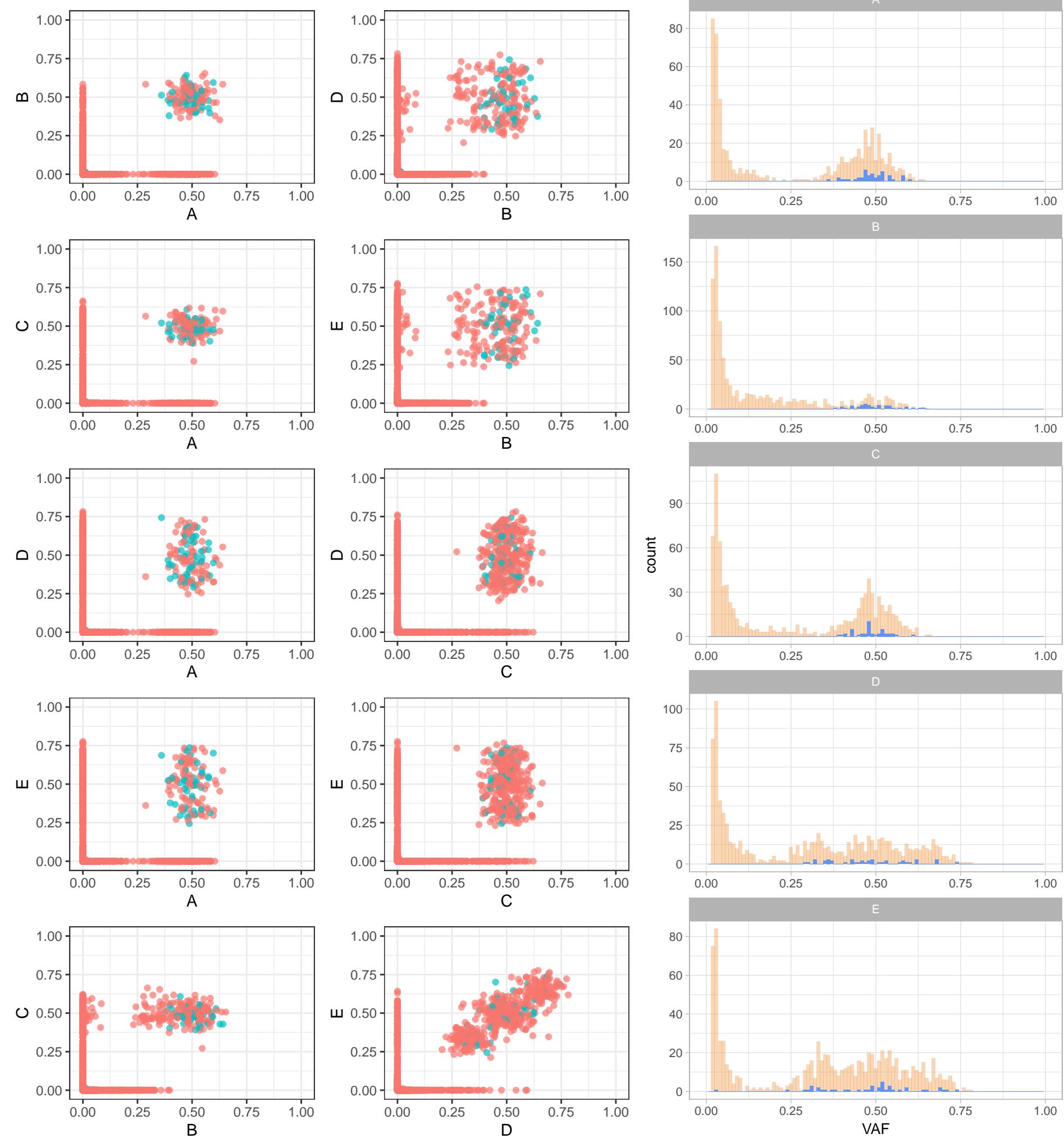
Chromosome 9

Chromosome 9



Chromosome 10

Chromosome 10



labels

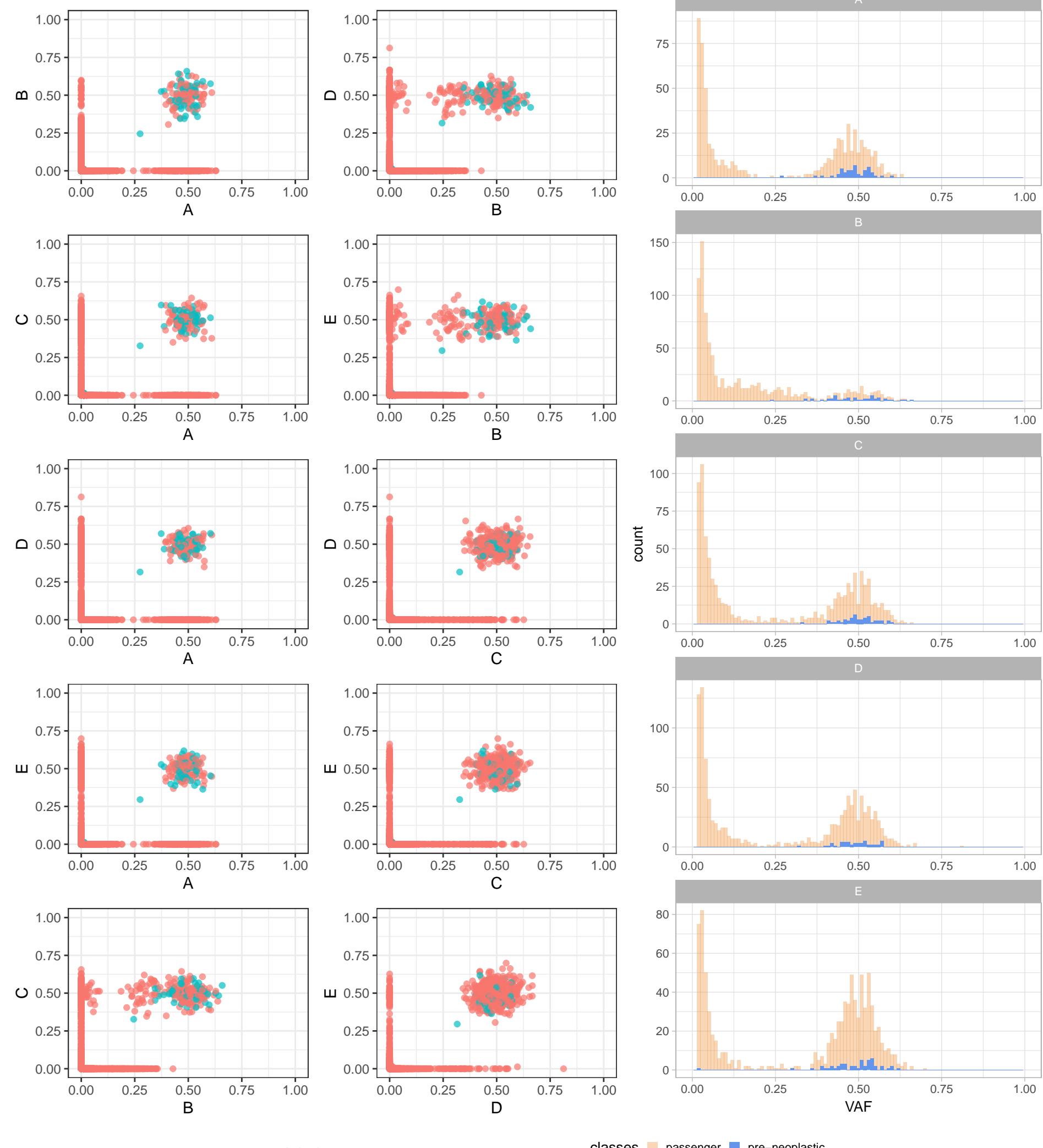
● passenger ● pre-neoplastic

classes

■ passenger ■ pre-neoplastic

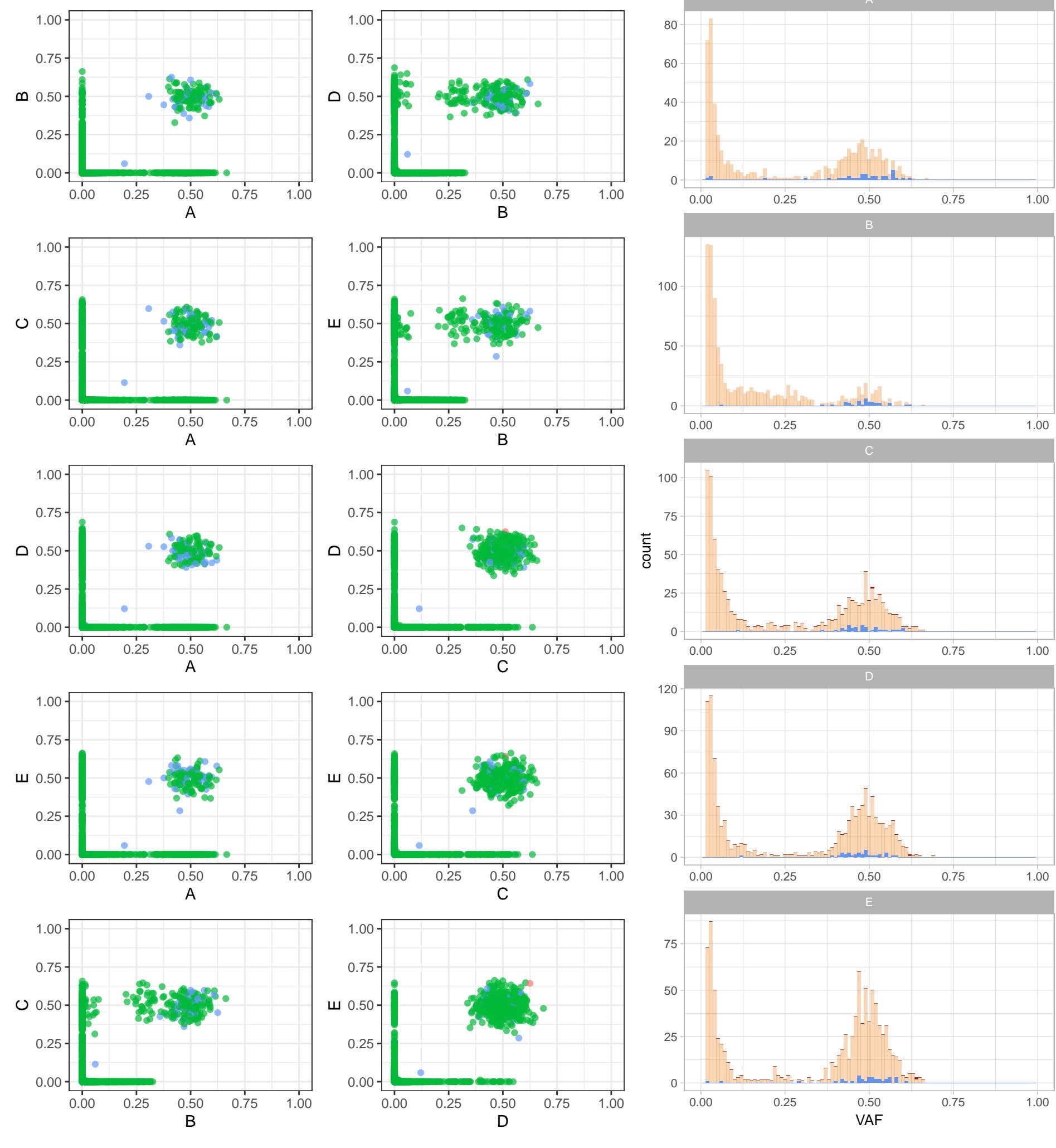
Chromosome 11

Chromosome 11



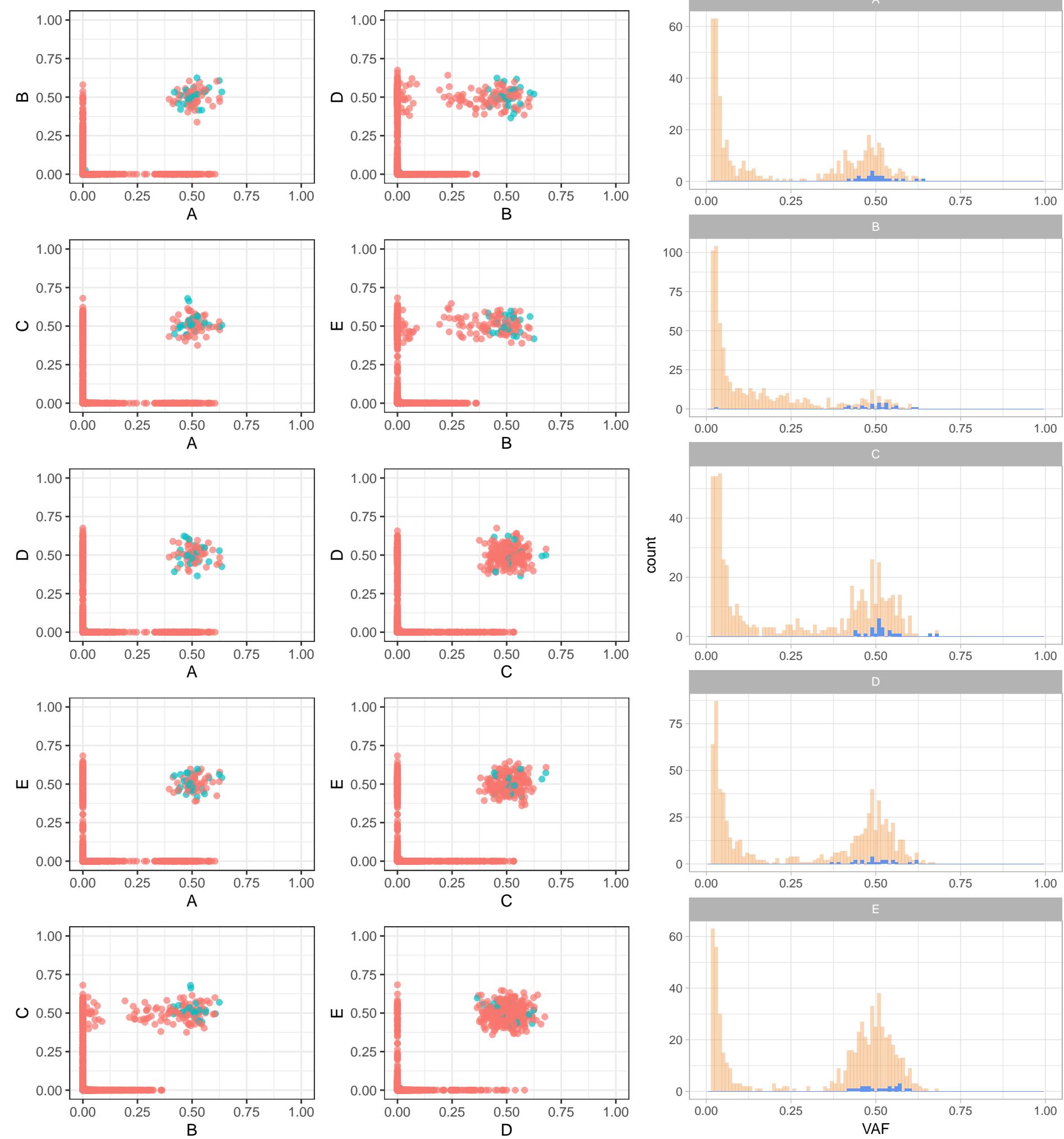
Chromosome 12

Chromosome 12



Chromosome 13

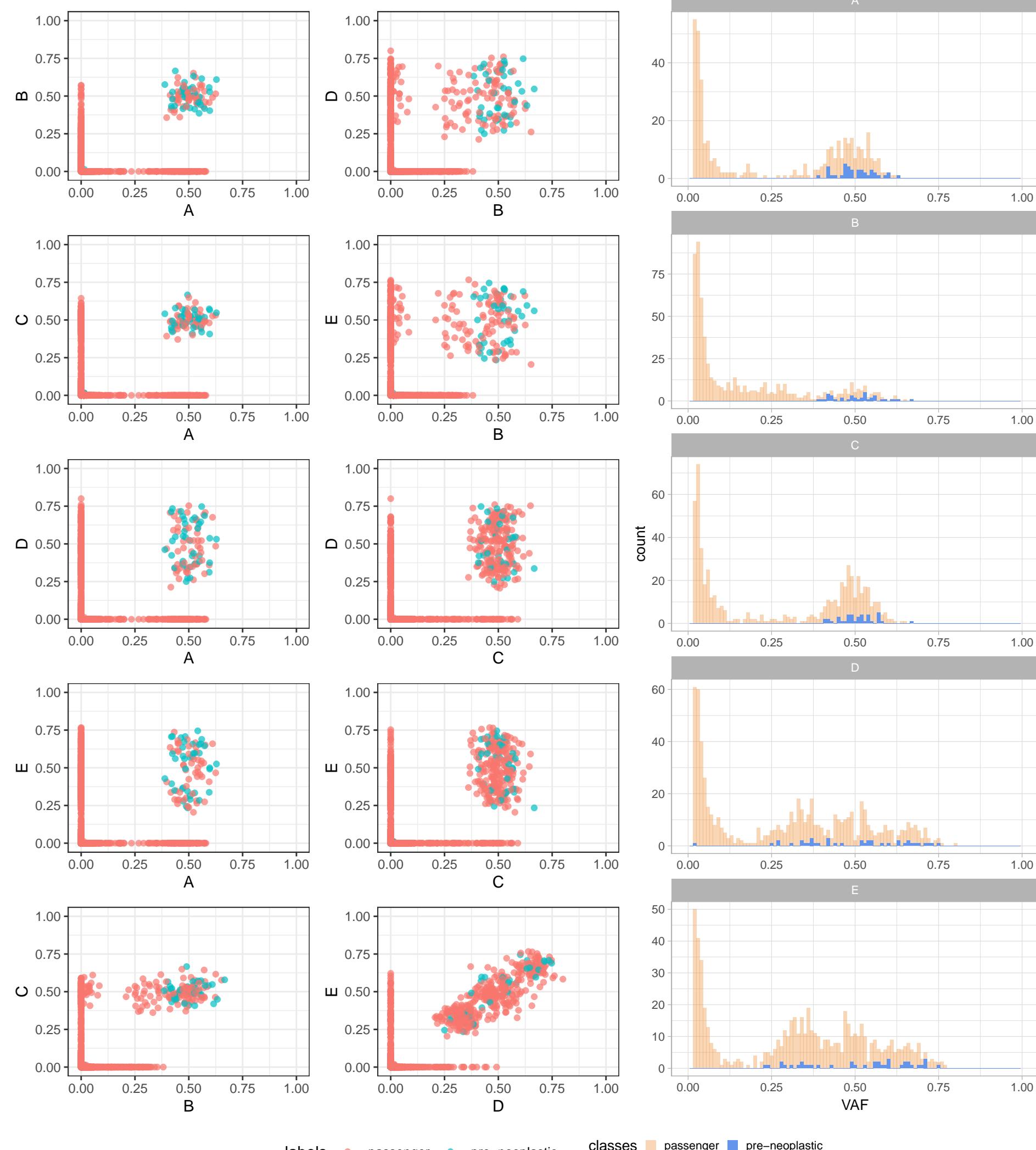
Chromosome 13



labels ● passenger ● pre-neoplastic

classes ■ passenger ■ pre-neoplastic

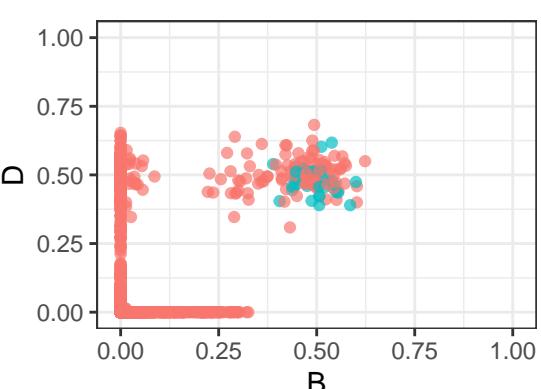
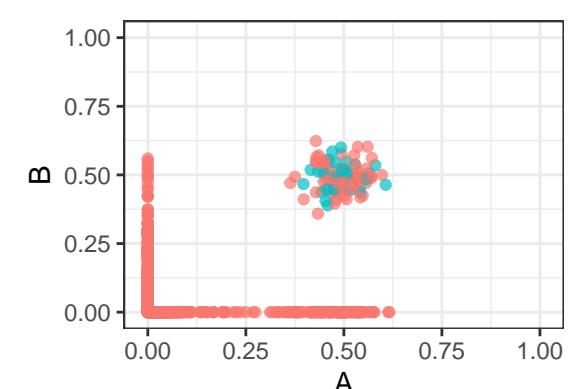
Chromosome 14



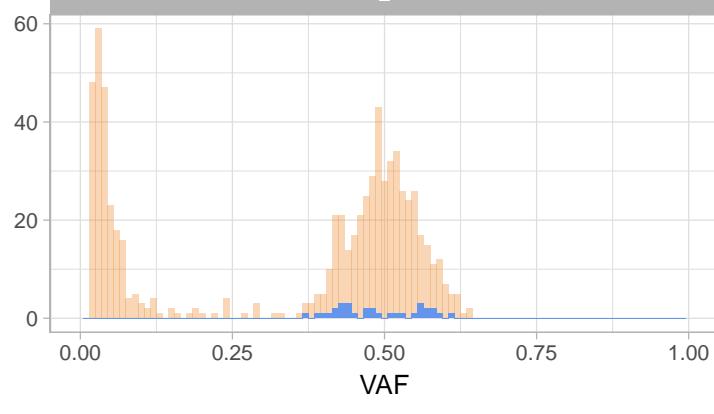
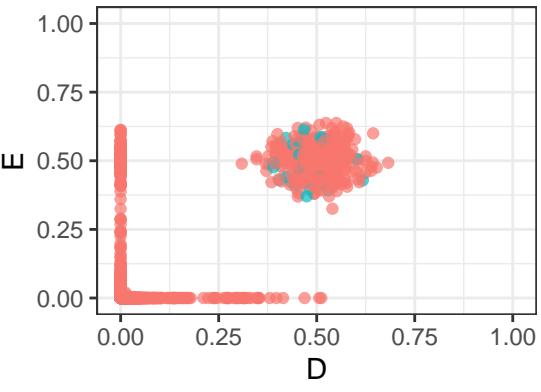
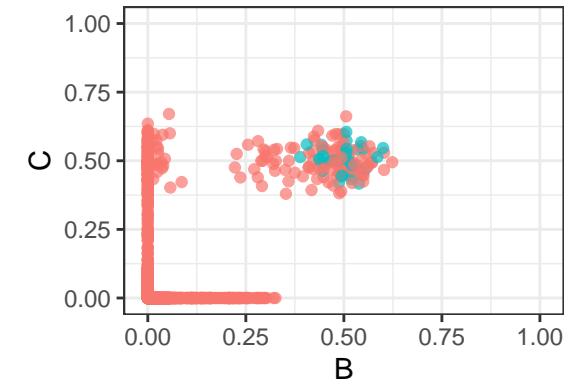
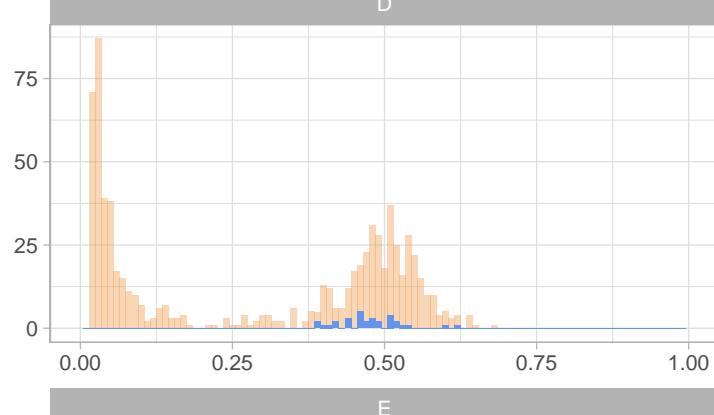
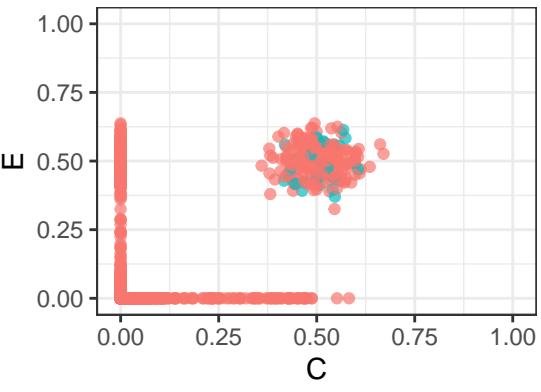
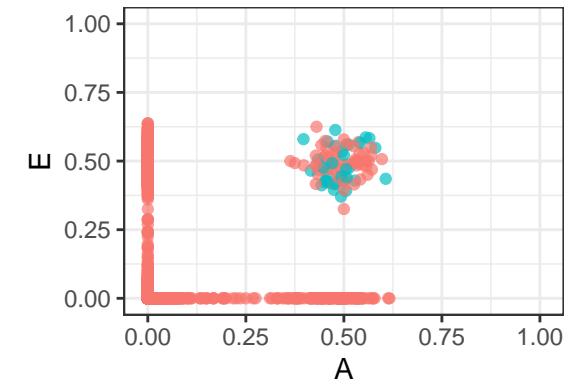
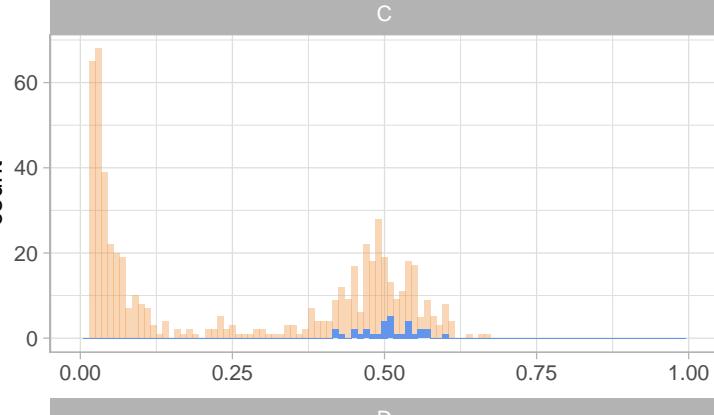
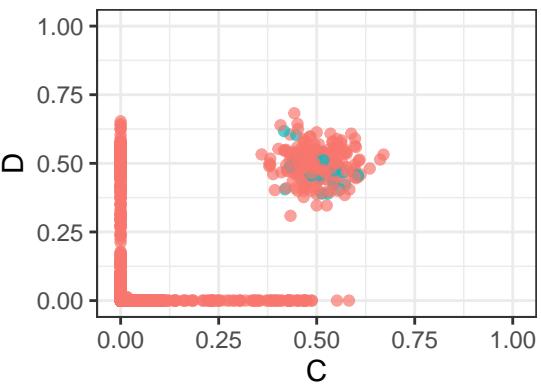
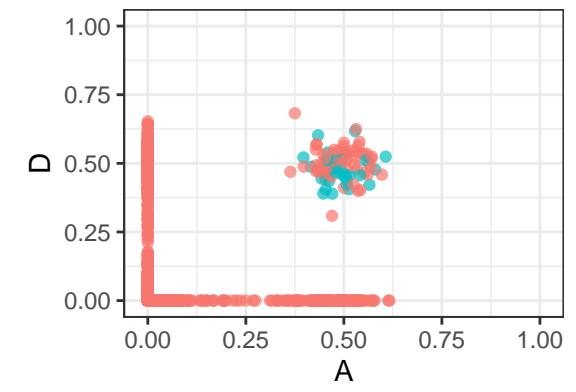
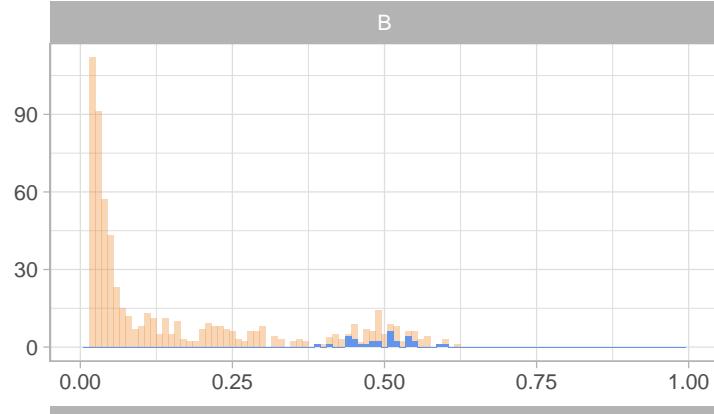
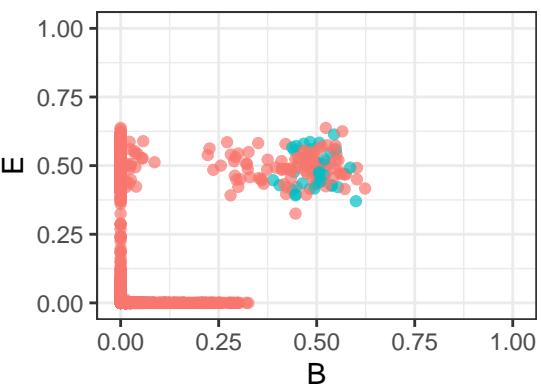
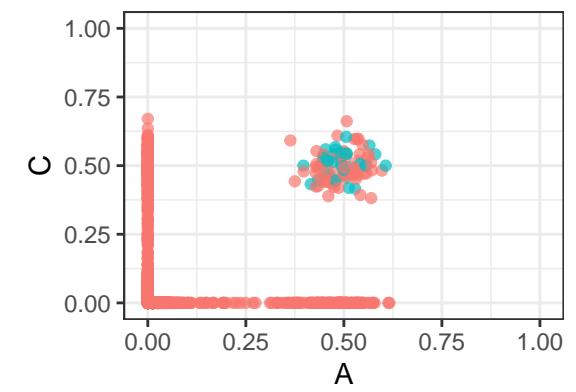
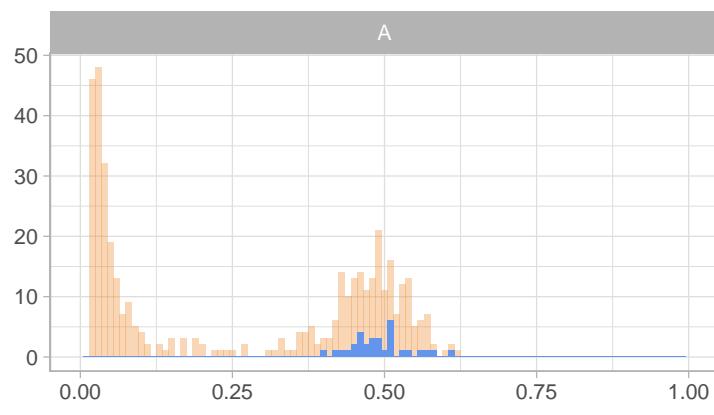
Chromosome 15



Chromosome 16



Chromosome 16



labels

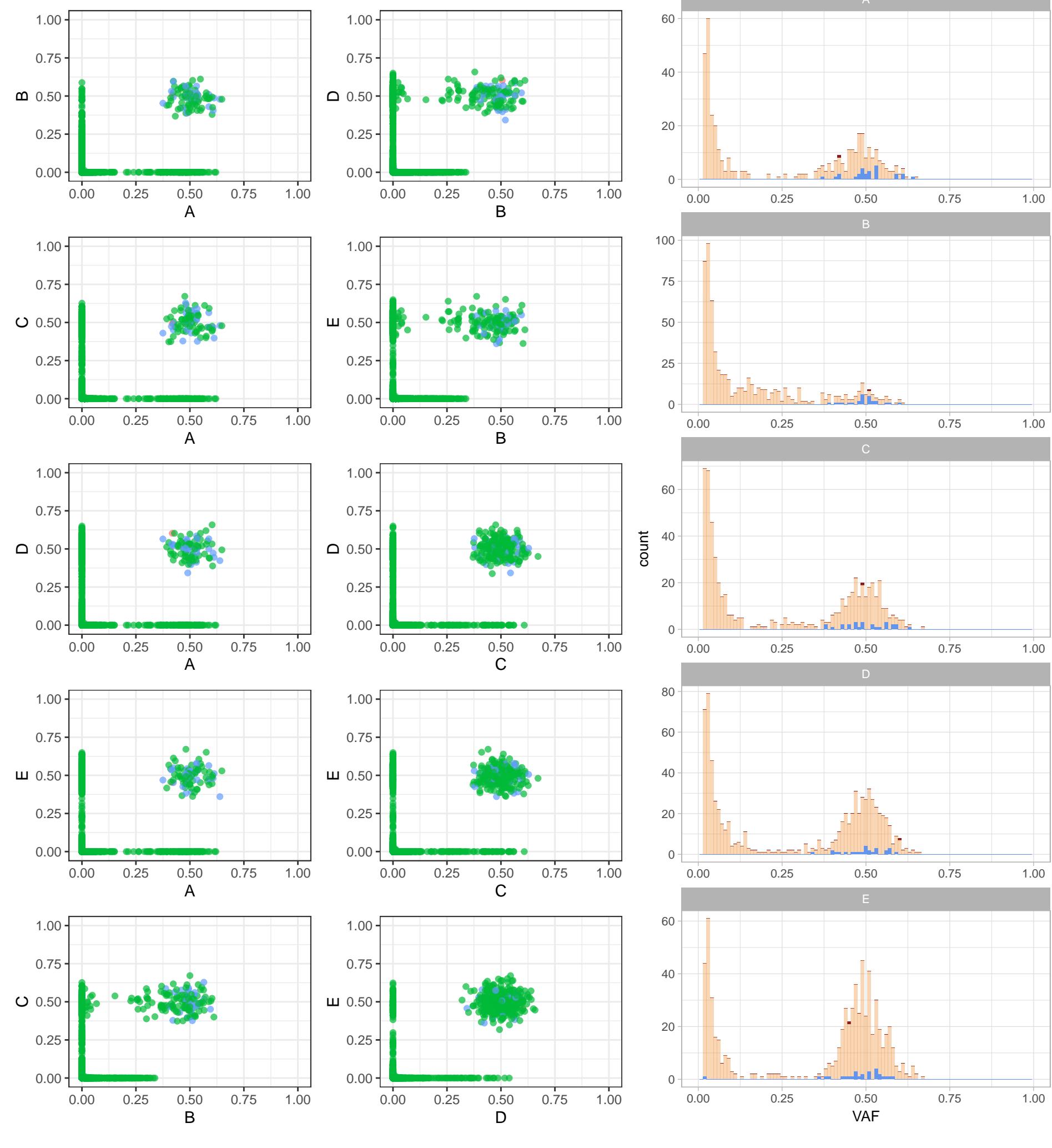
● passenger ● pre-neoplastic

classes

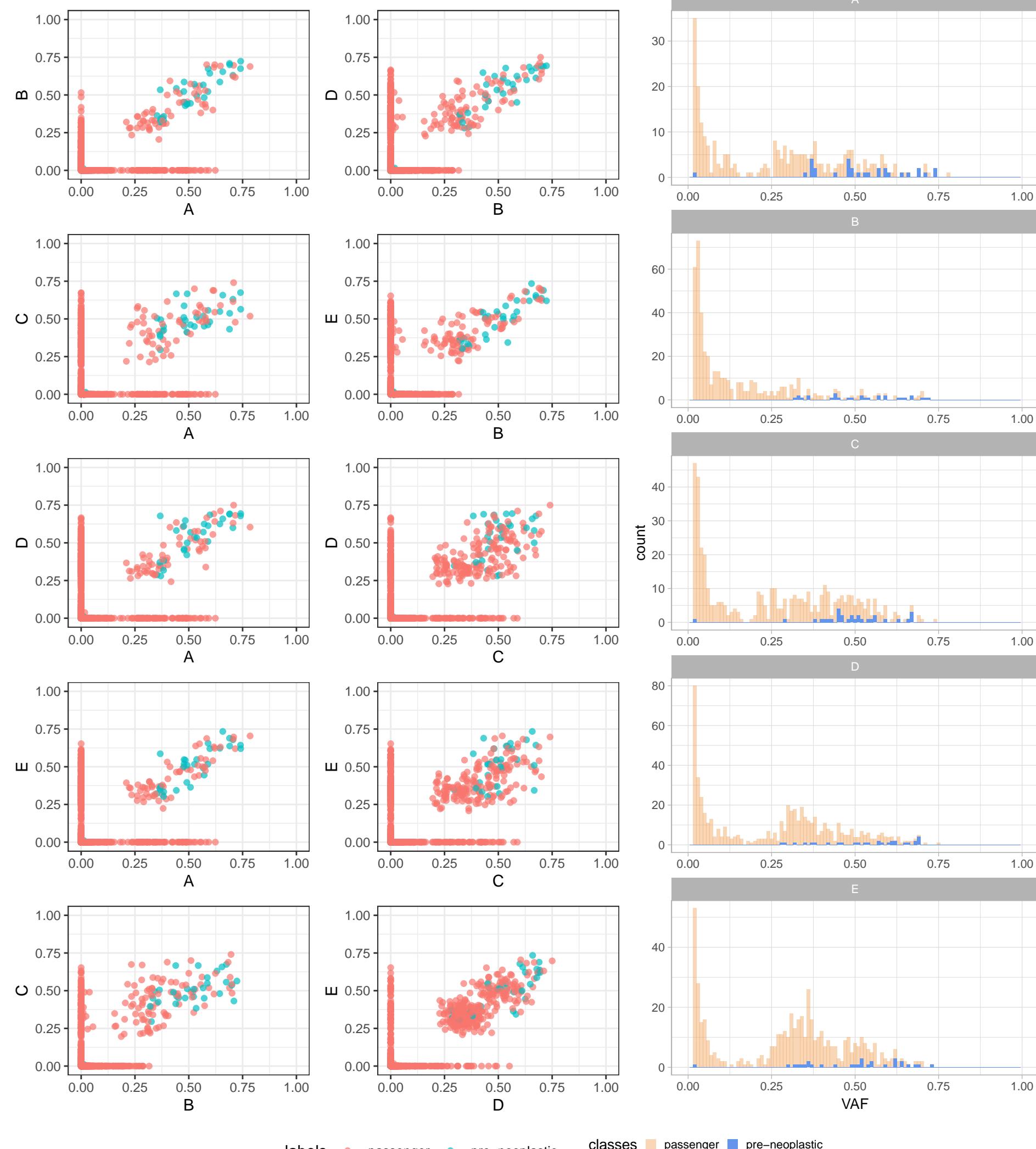
● passenger ● pre-neoplastic

Chromosome 17

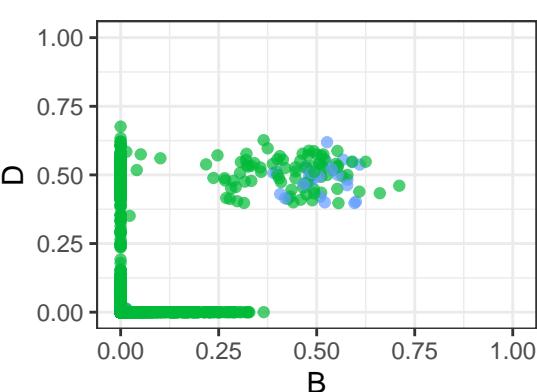
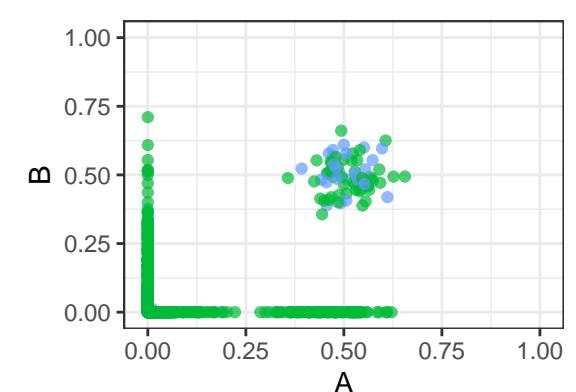
Chromosome 17



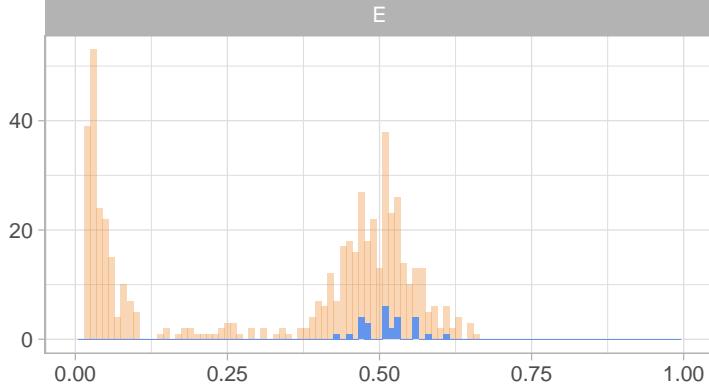
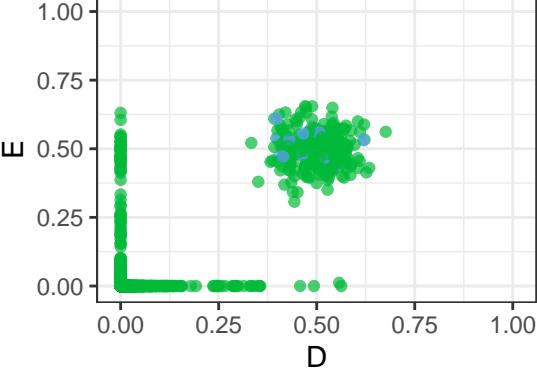
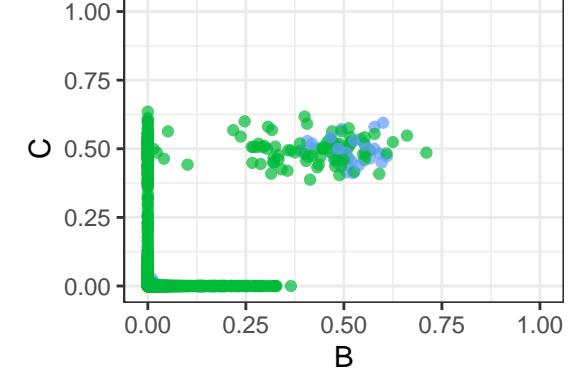
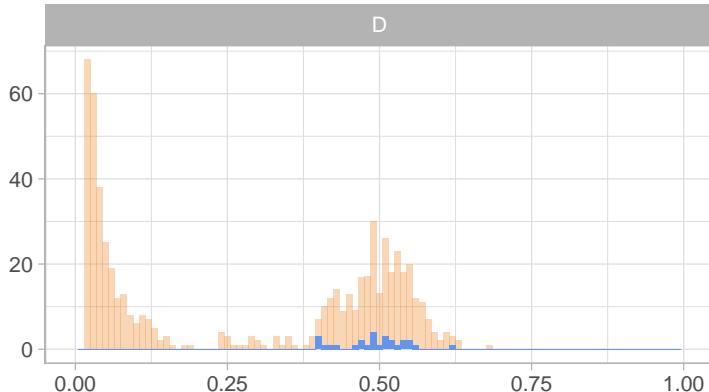
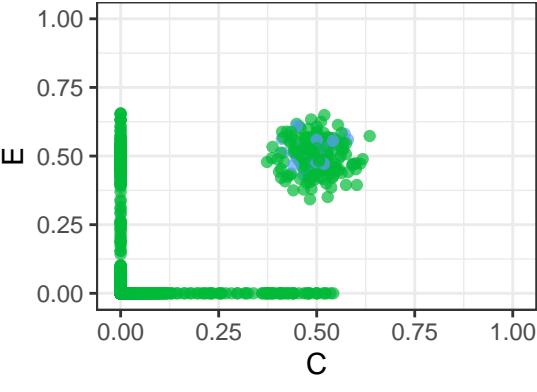
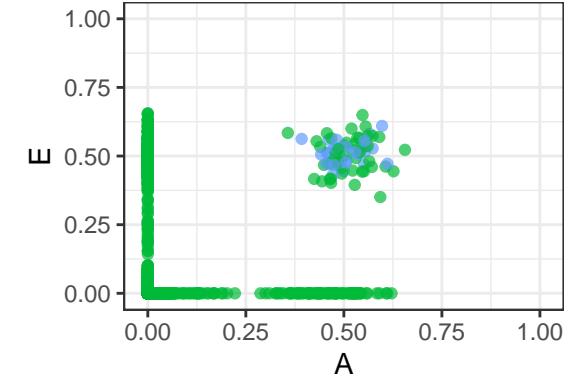
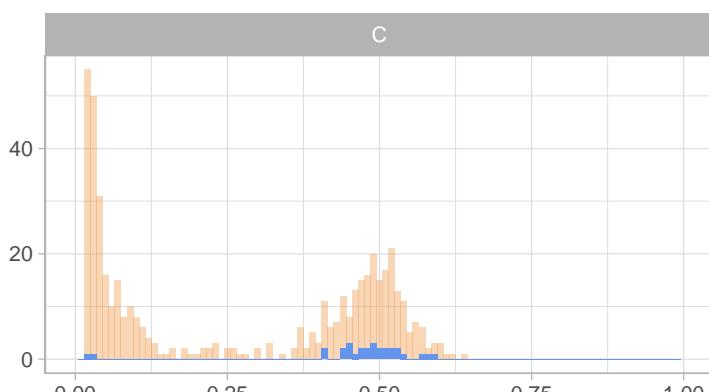
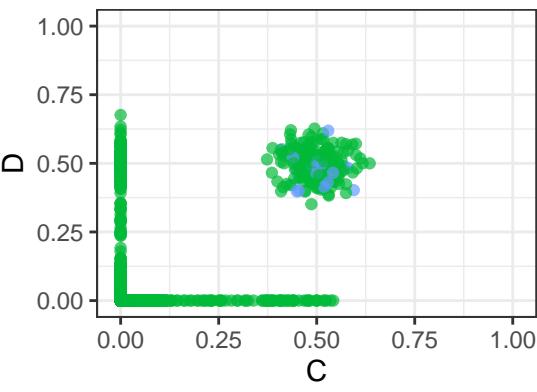
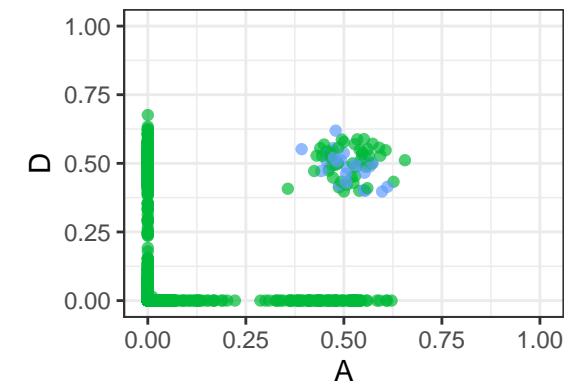
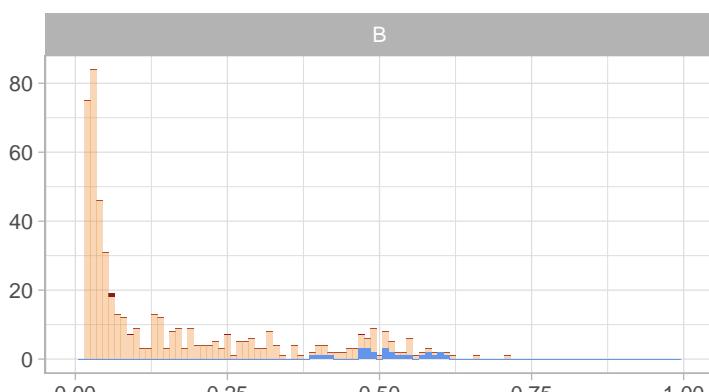
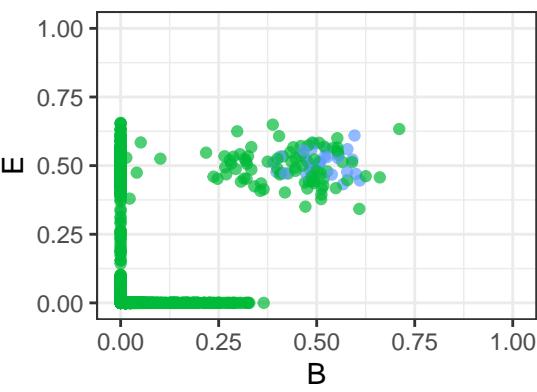
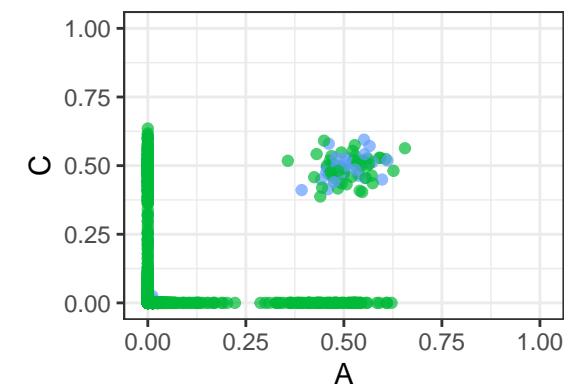
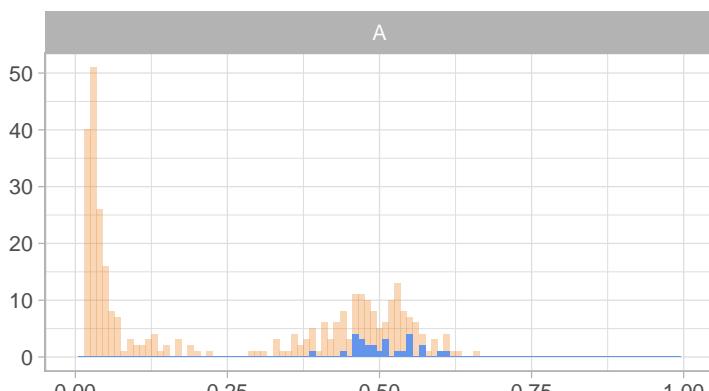
Chromosome 18



Chromosome 19



Chromosome 19



labels

● driver

● passenger

● pre-neoplastic

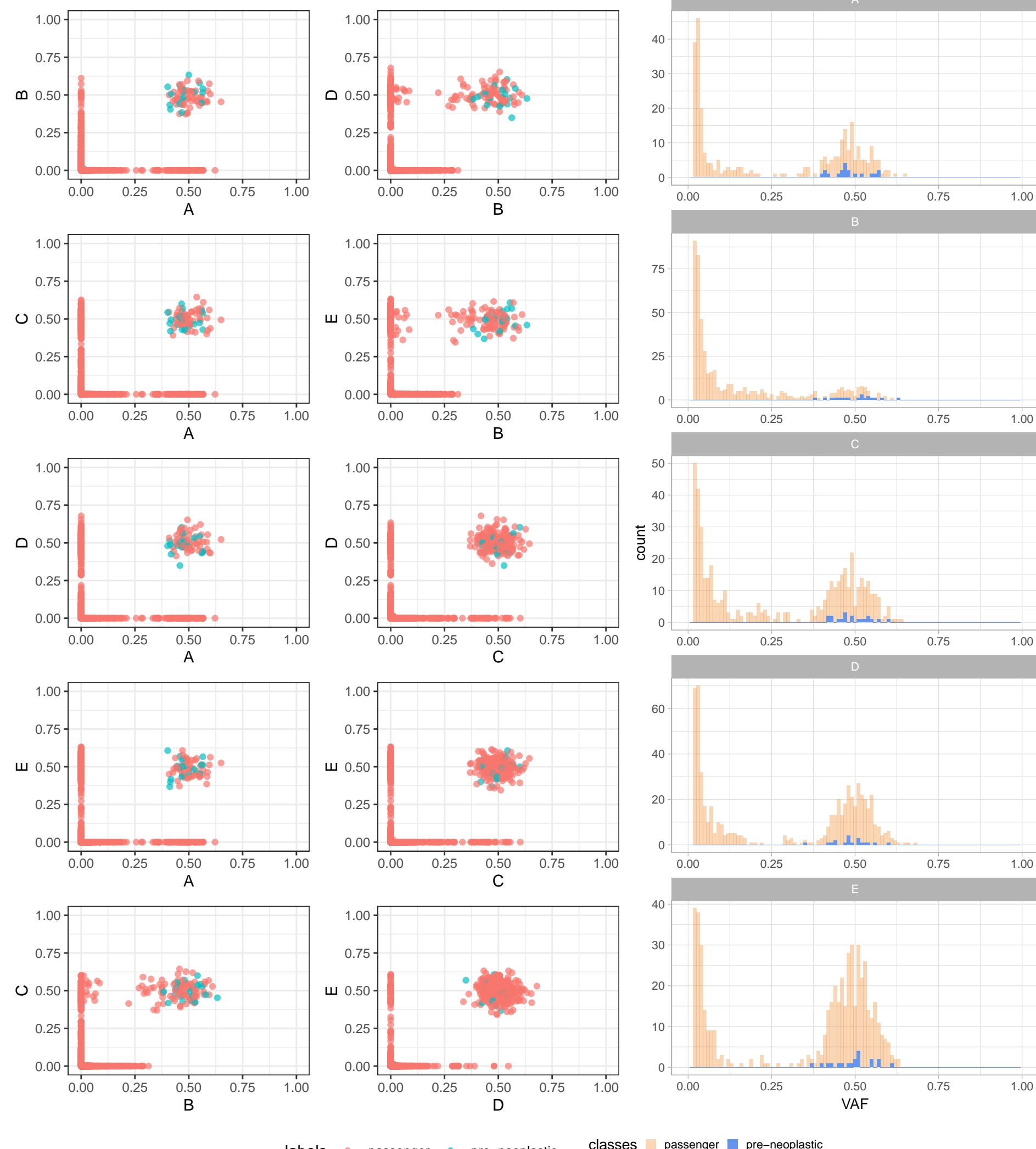
classes

■ driver

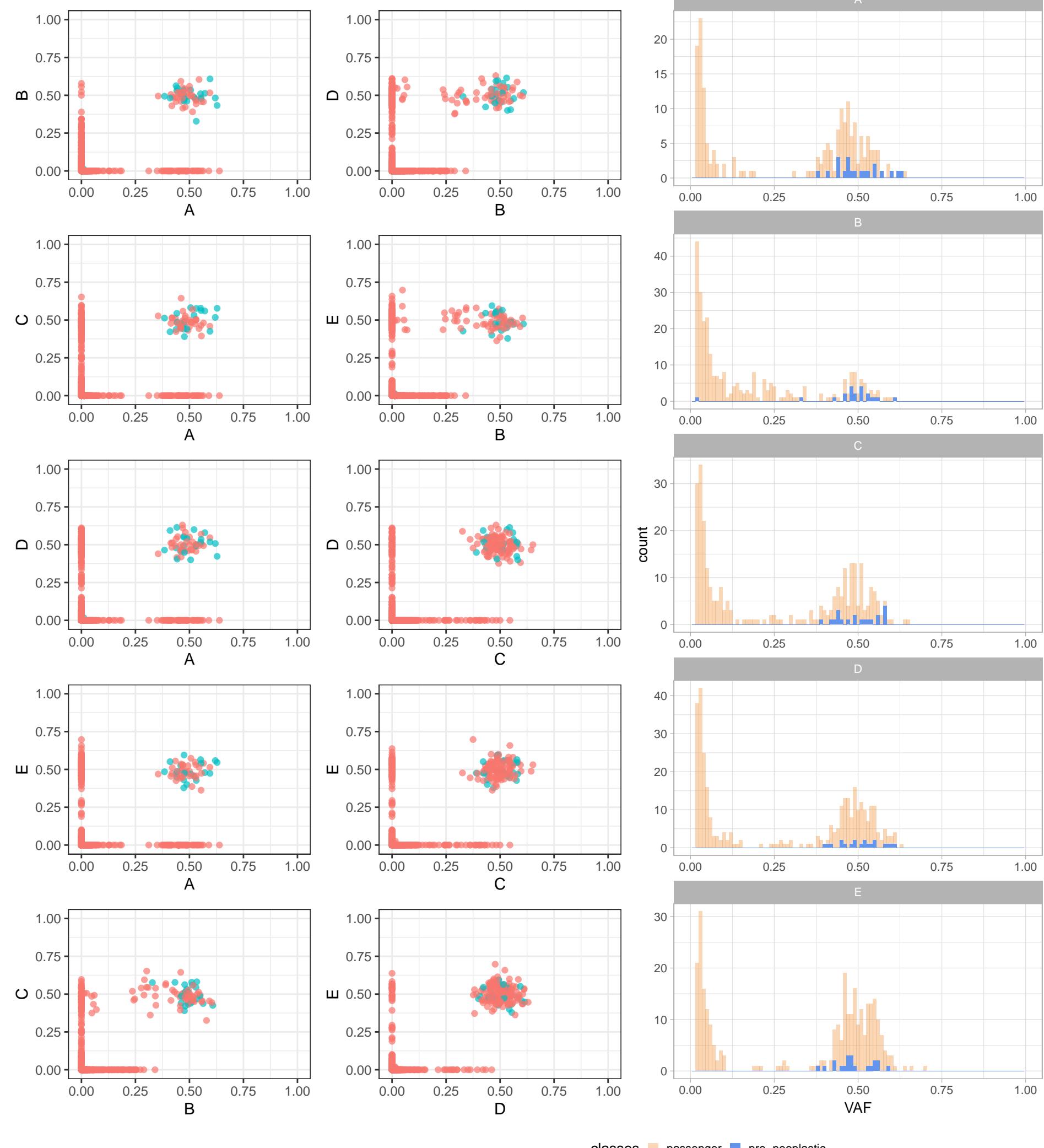
■ passenger

■ pre-neoplastic

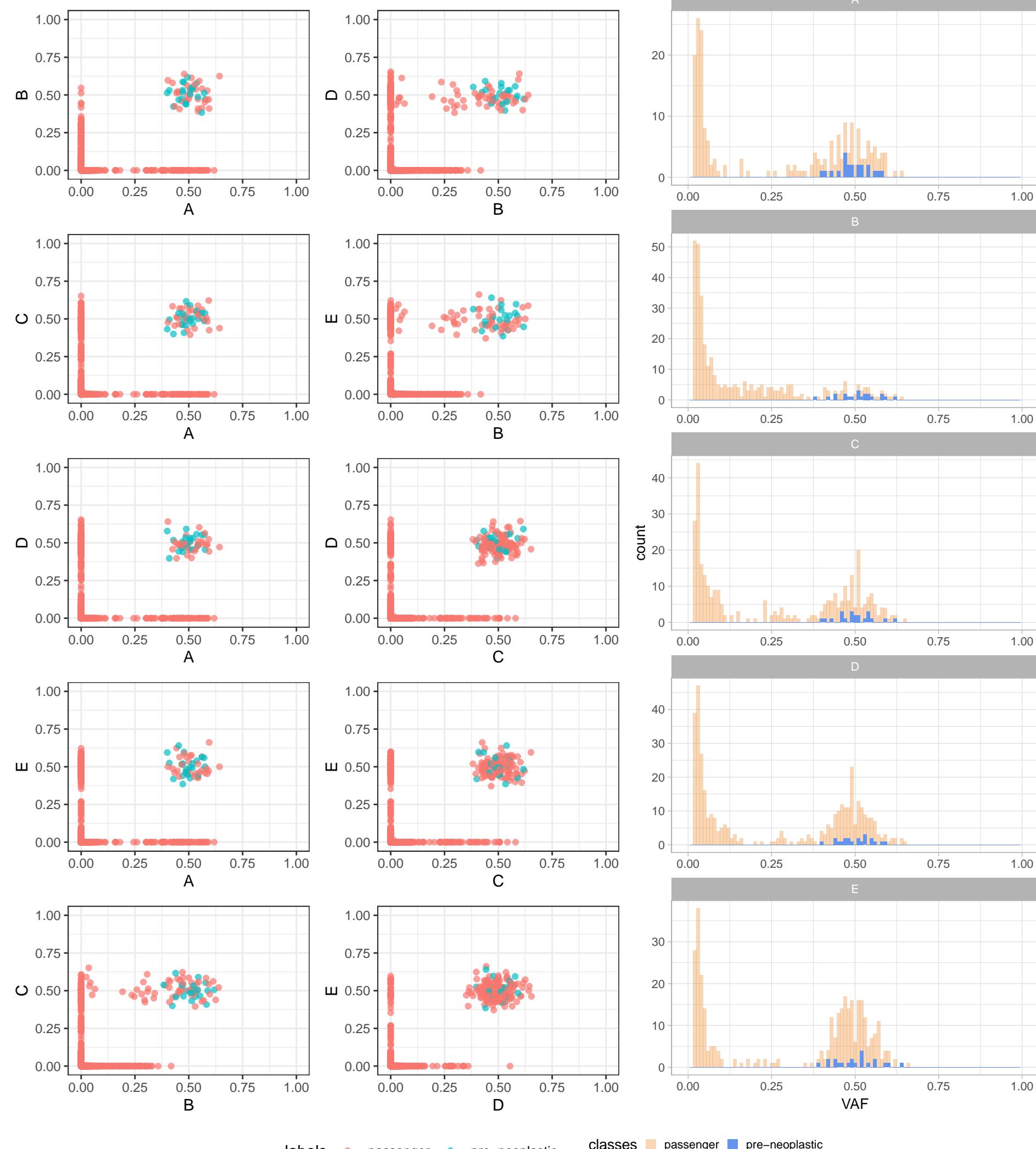
Chromosome 20



Chromosome 21

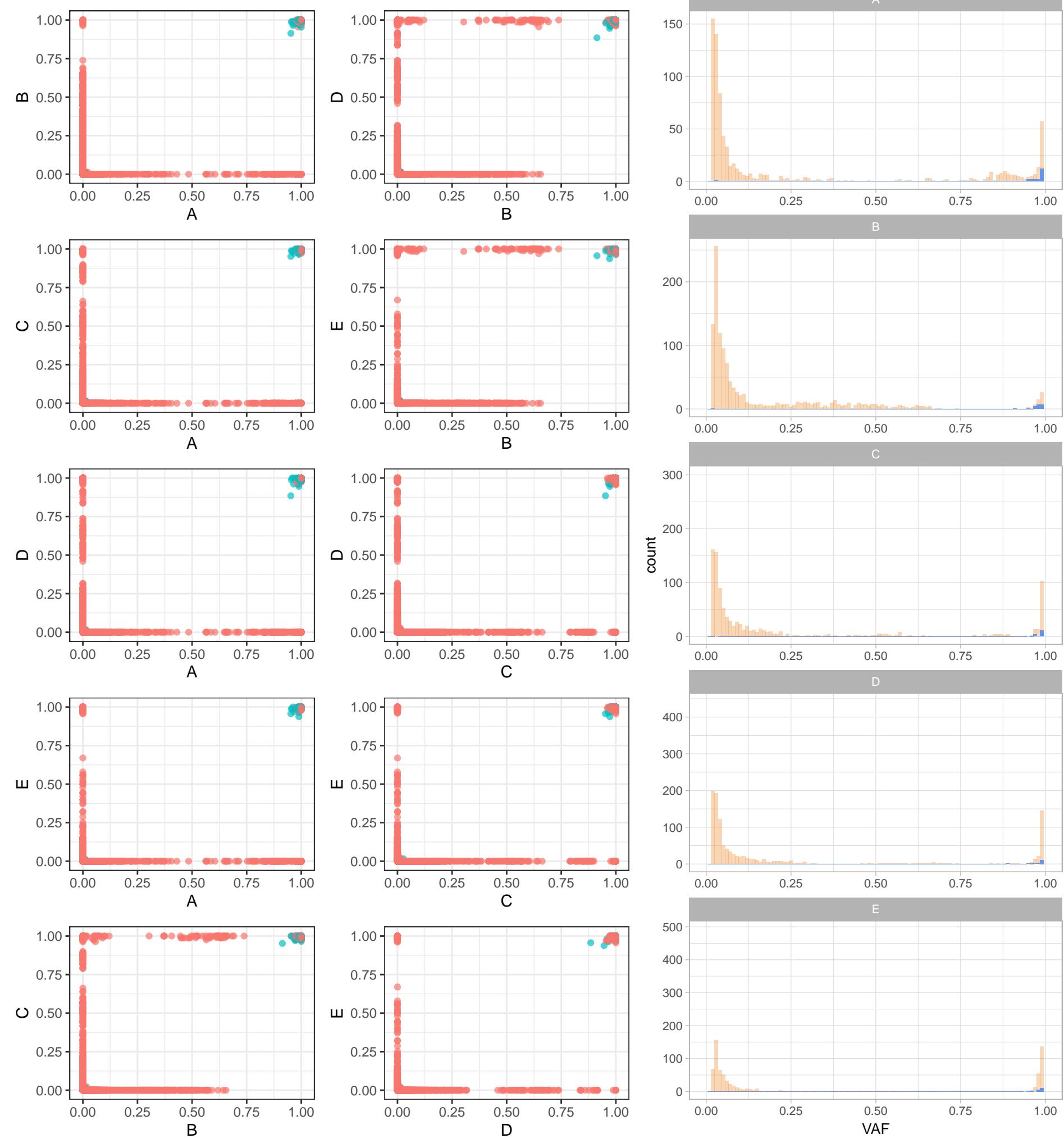


Chromosome 22



Chromosome X

Chromosome X



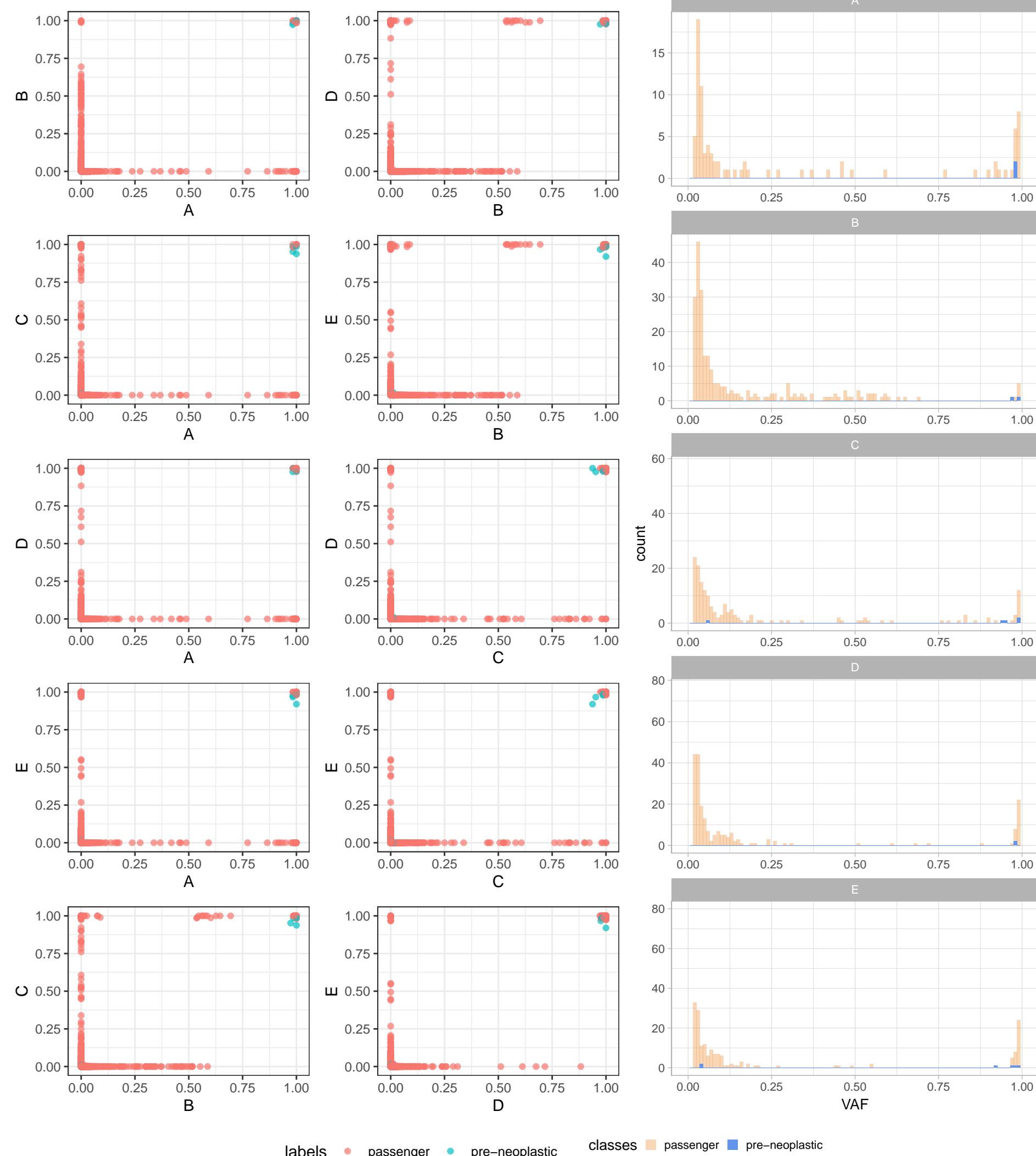
labels

● passenger ● pre-neoplastic

classes

● passenger ● pre-neoplastic

Chromosome Y



Mutational signatures

