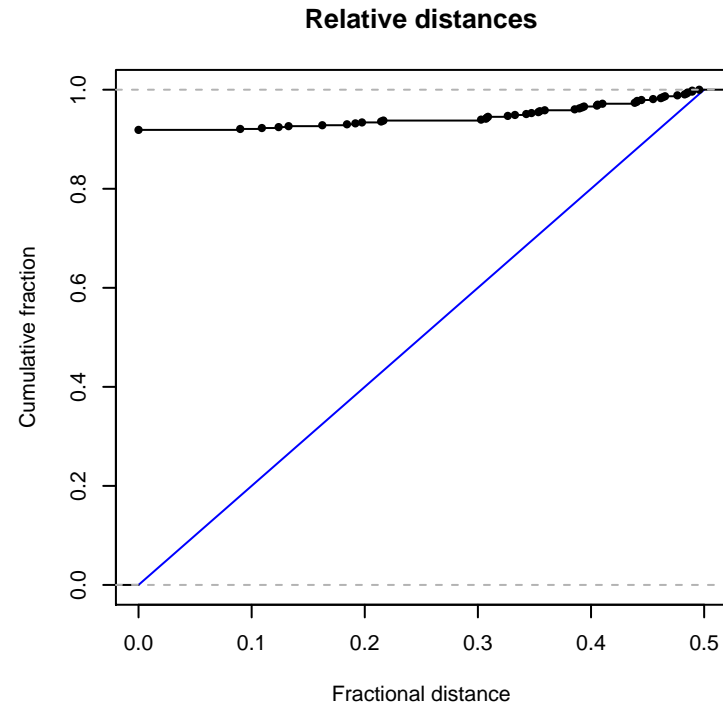
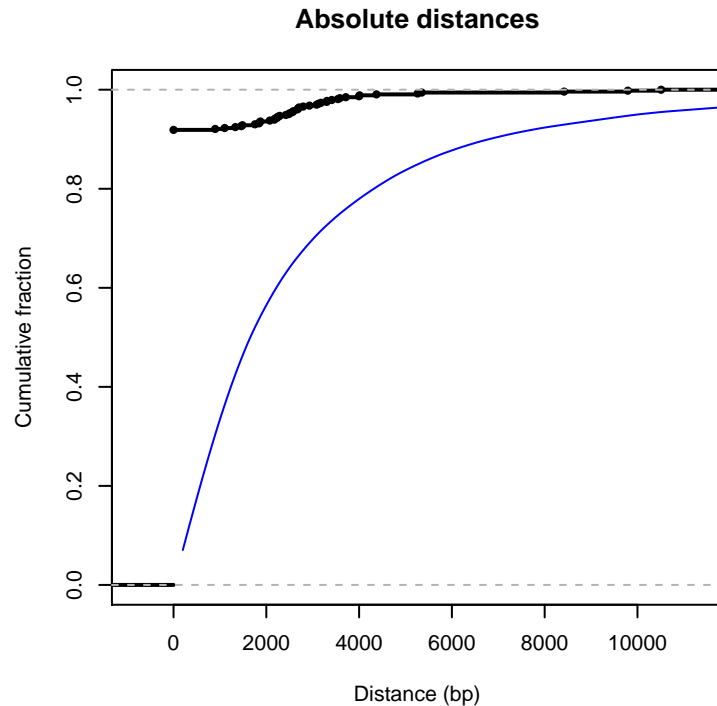


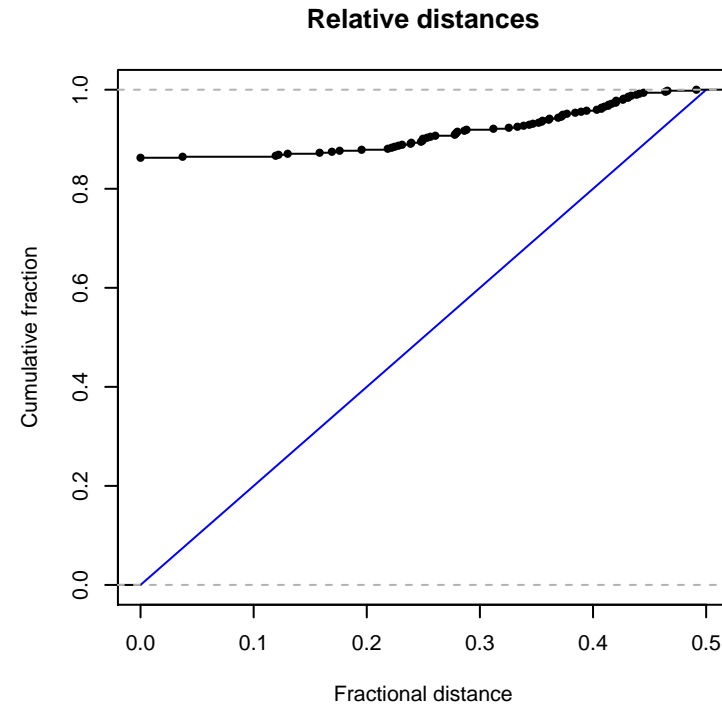
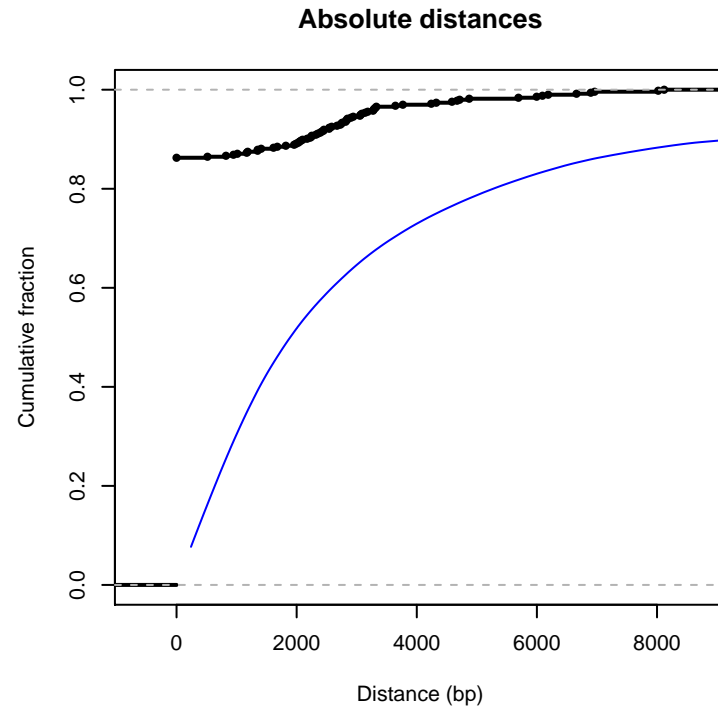
pcontig_000

Query population : 530
Reference population : 540
Relative Ks p-value : 0
Relative ecdf deviation area : 0.221583
Relative ecdf area correlation : 0.886335
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.34964



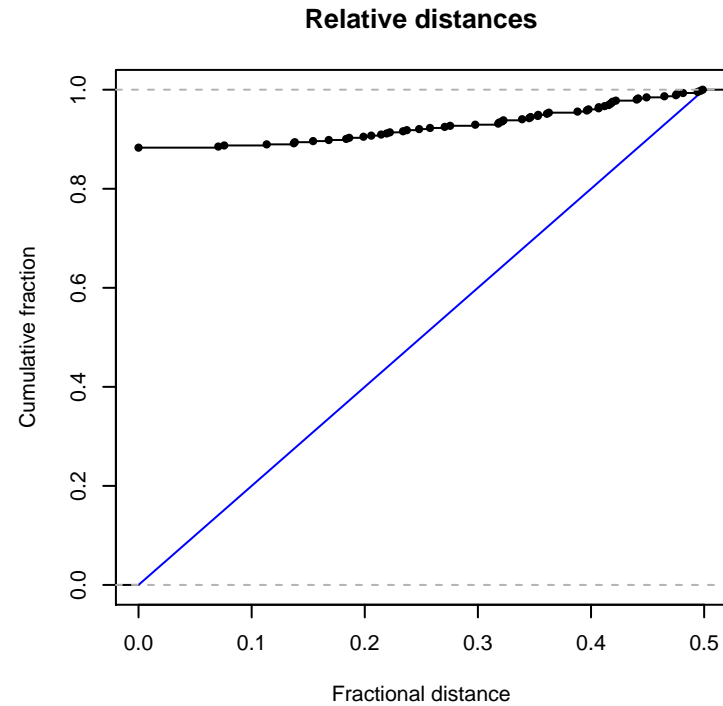
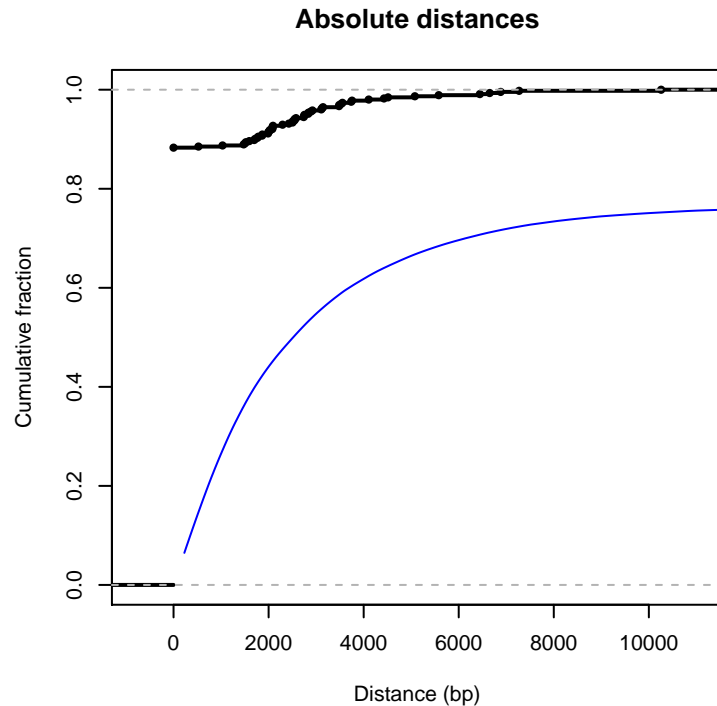
pcontig_001

Query population : 495
Reference population : 490
Relative Ks p-value : 0
Relative ecdf deviation area : 0.205569
Relative ecdf area correlation : 0.822146
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.47099



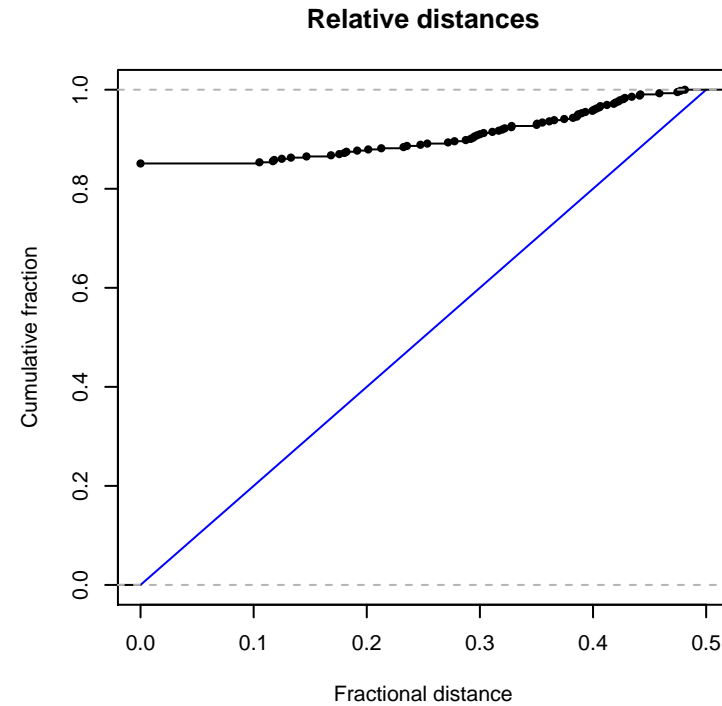
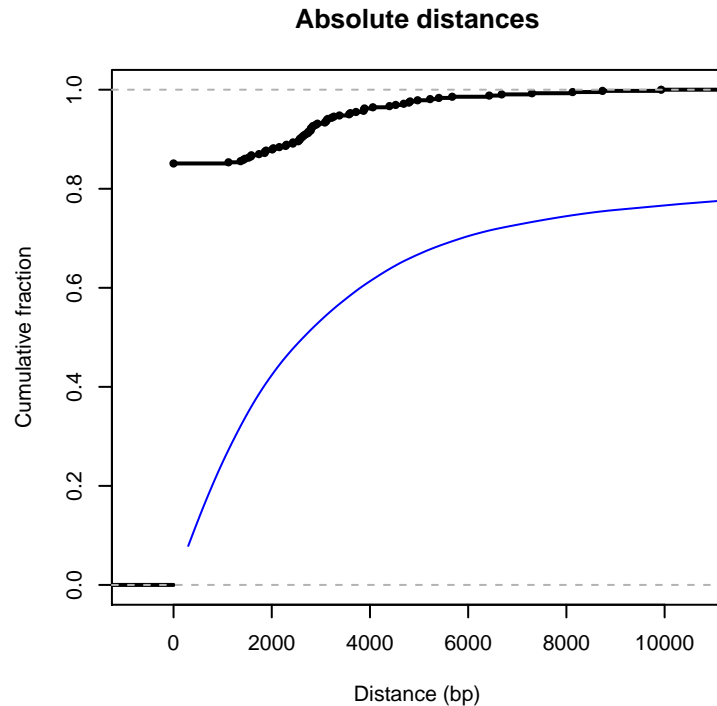
pcontig_002

Query population : 453
Reference population : 436
Relative Ks p-value : 0
Relative ecdf deviation area : 0.212318
Relative ecdf area correlation : 0.849297
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.55356



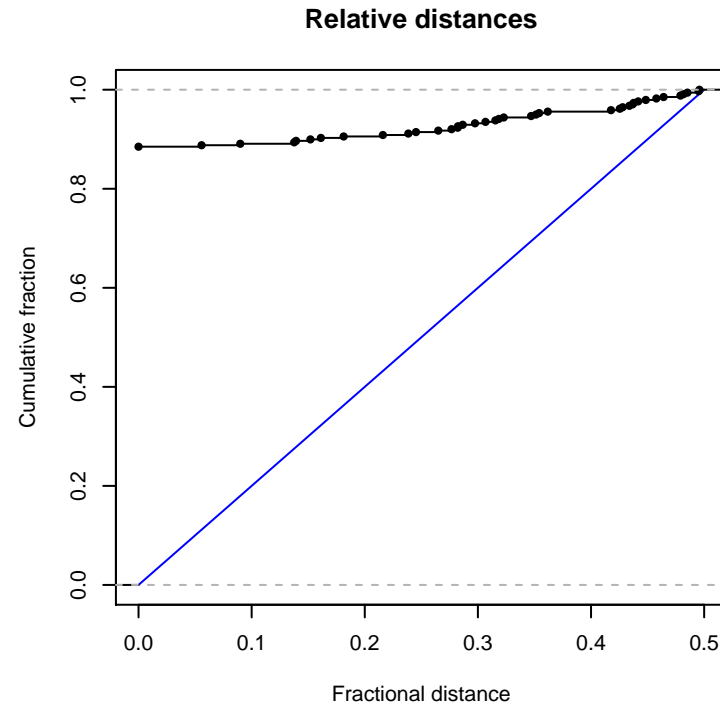
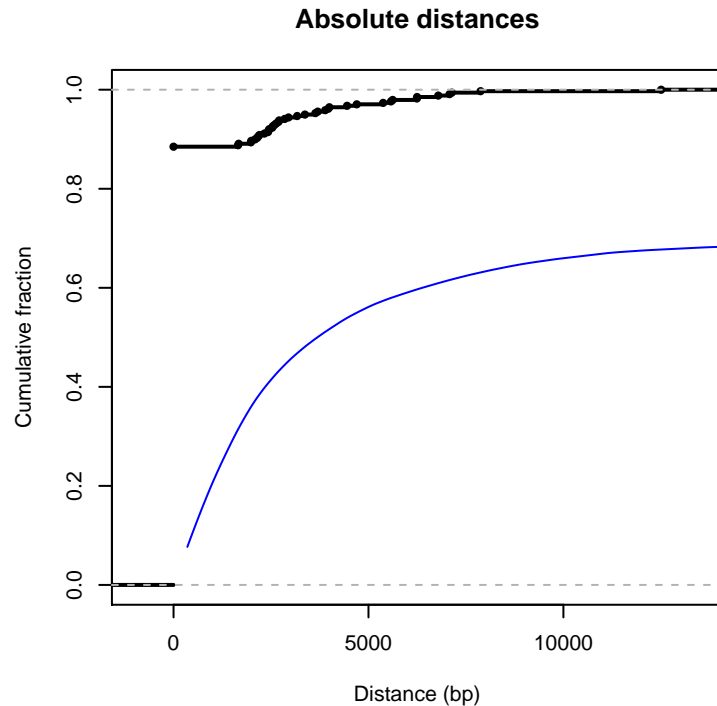
pcontig_003

Query population : 423
Reference population : 403
Relative Ks p-value : 0
Relative ecdf deviation area : 0.202145
Relative ecdf area correlation : 0.808721
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.30916



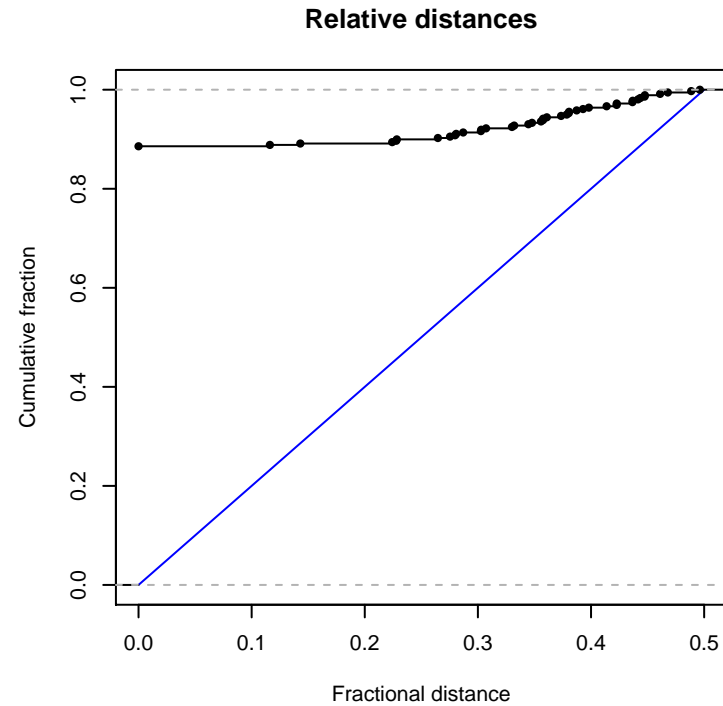
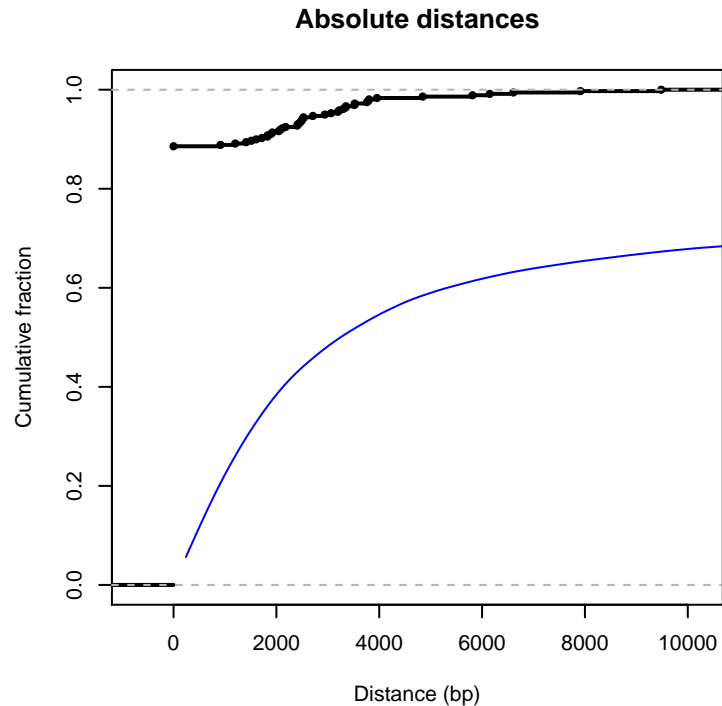
pcontig_004

Query population : 339
Reference population : 332
Relative Ks p-value : 0
Relative ecdf deviation area : 0.212217
Relative ecdf area correlation : 0.848813
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.77774



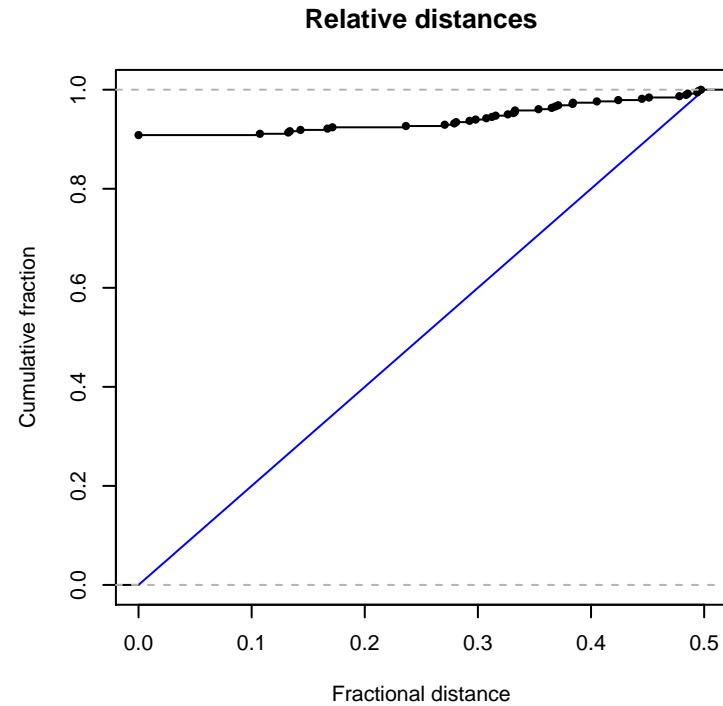
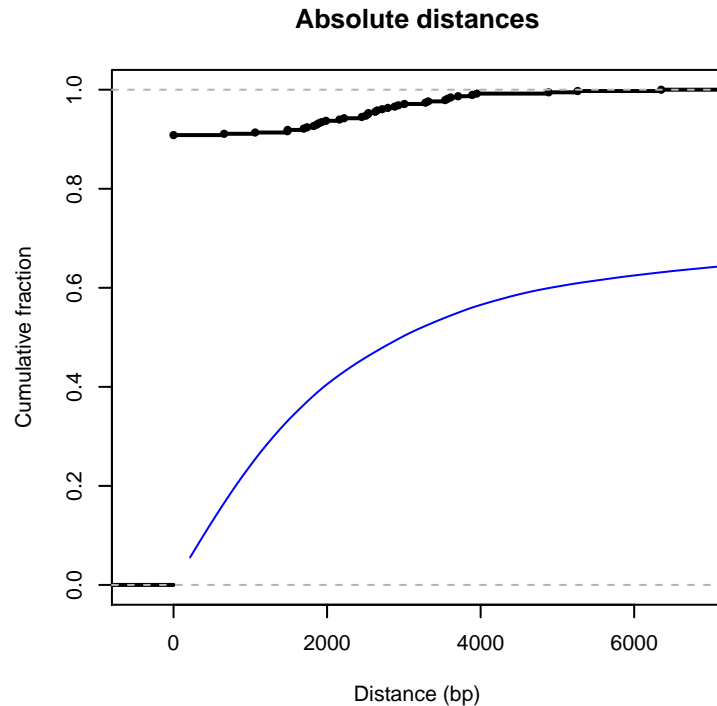
pcontig_005

Query population : 359
Reference population : 359
Relative Ks p-value : 0
Relative ecdf deviation area : 0.209542
Relative ecdf area correlation : 0.837951
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.30315



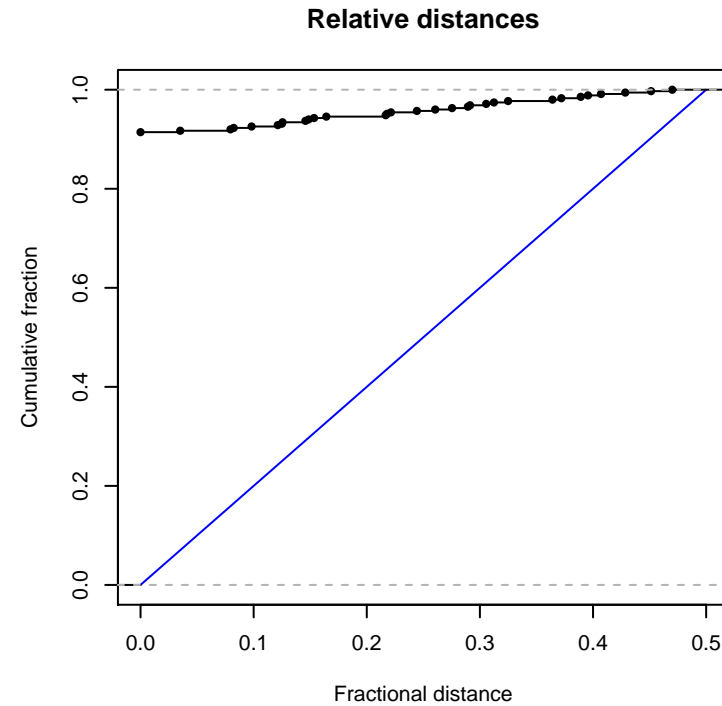
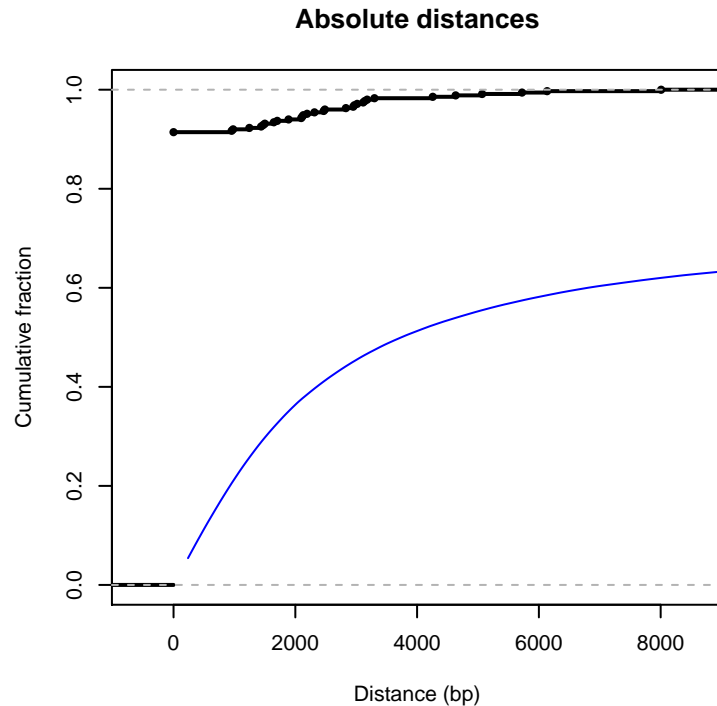
pcontig_006

Query population : 382
Reference population : 395
Relative Ks p-value : 0
Relative ecdf deviation area : 0.219503
Relative ecdf area correlation : 0.877947
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.3865



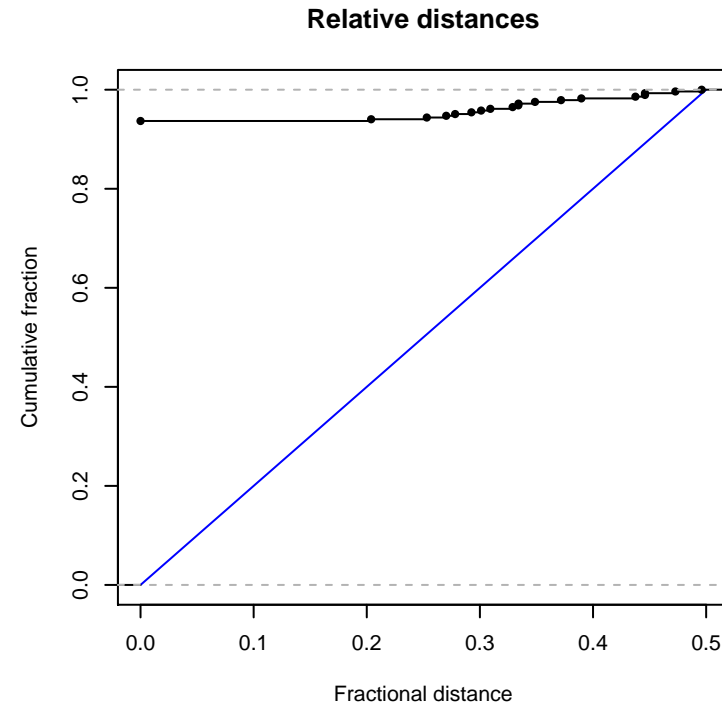
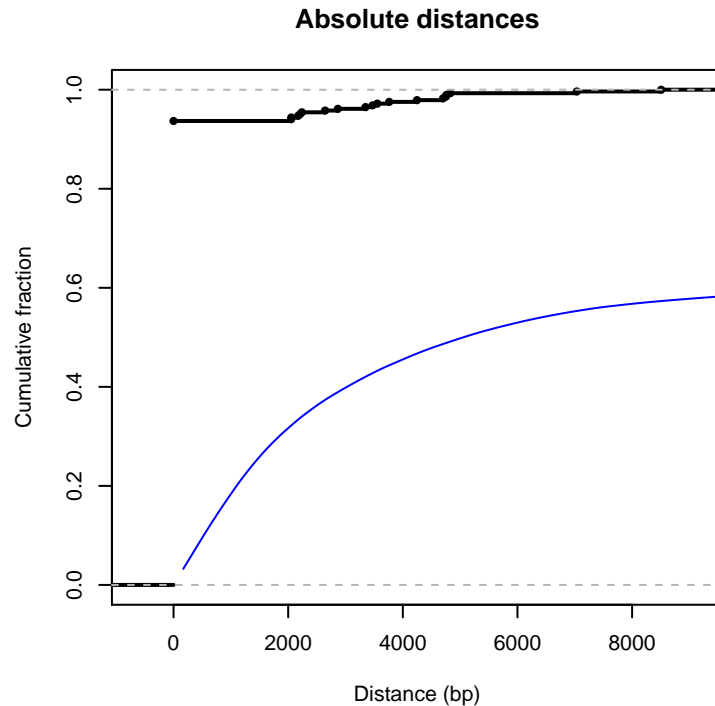
pcontig_007

Query population : 350
Reference population : 349
Relative Ks p-value : 0
Relative ecdf deviation area : 0.228551
Relative ecdf area correlation : 0.914098
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.17369



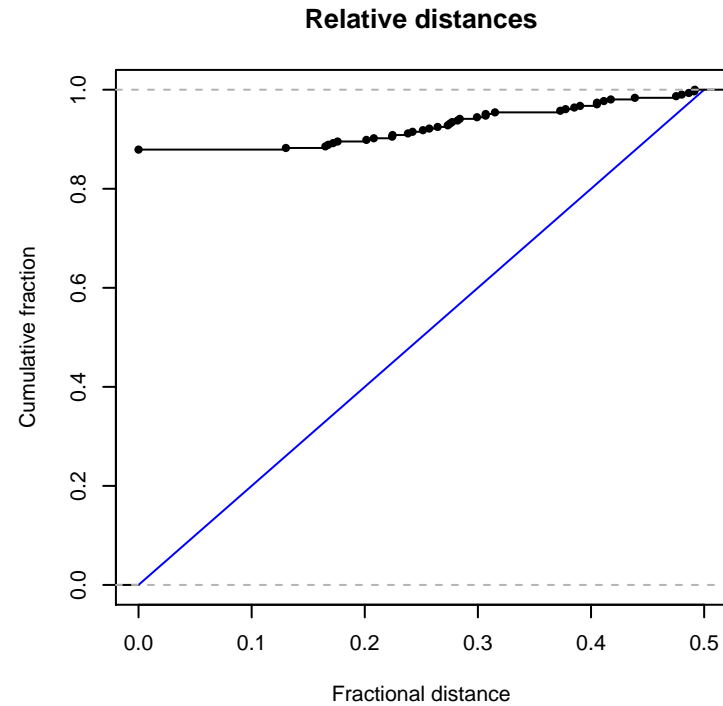
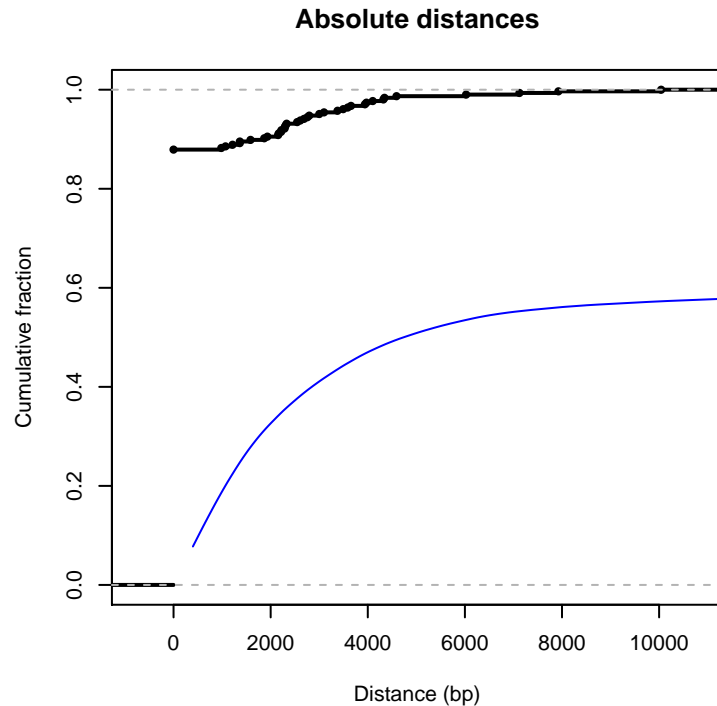
pcontig_008

Query population : 285
Reference population : 293
Relative Ks p-value : 0
Relative ecdf deviation area : 0.227833
Relative ecdf area correlation : 0.911392
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.77952



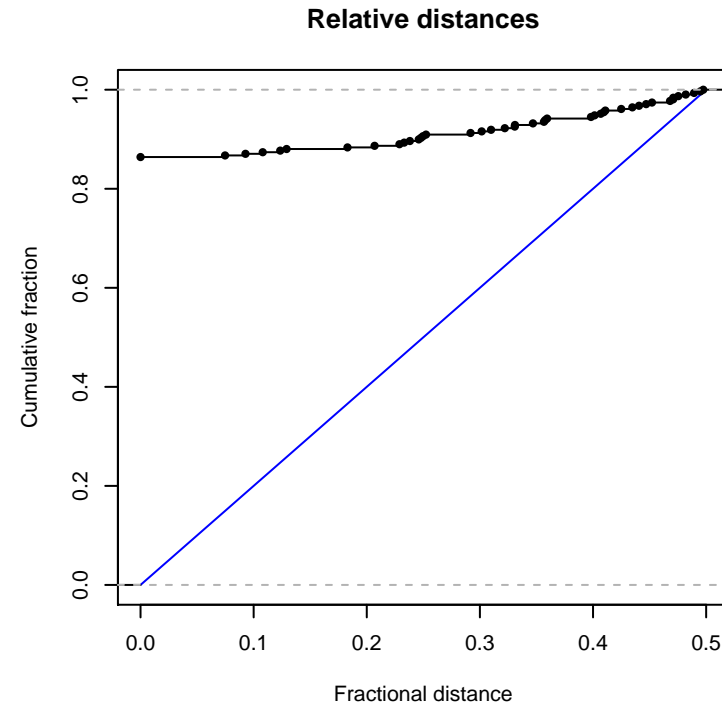
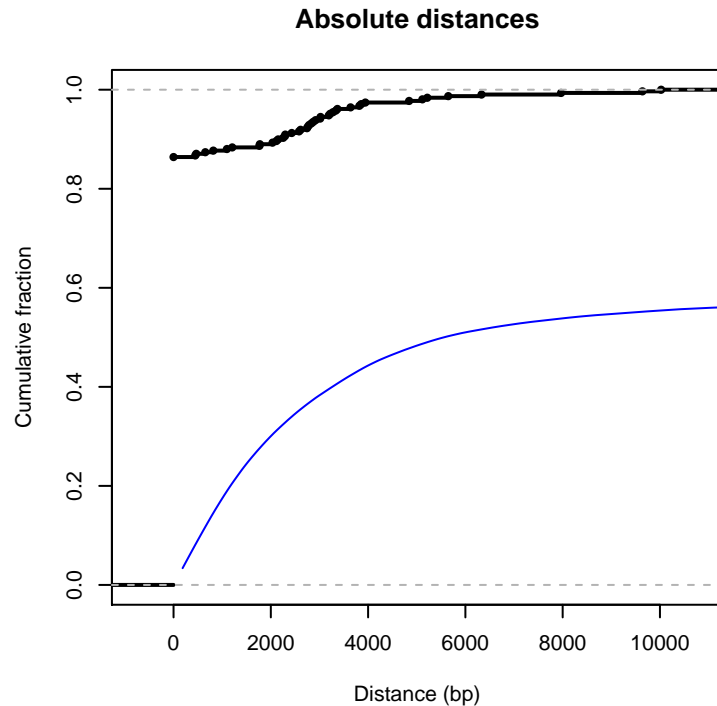
pcontig_009

Query population : 306
Reference population : 298
Relative Ks p-value : 0
Relative ecdf deviation area : 0.212681
Relative ecdf area correlation : 0.84875
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.50532



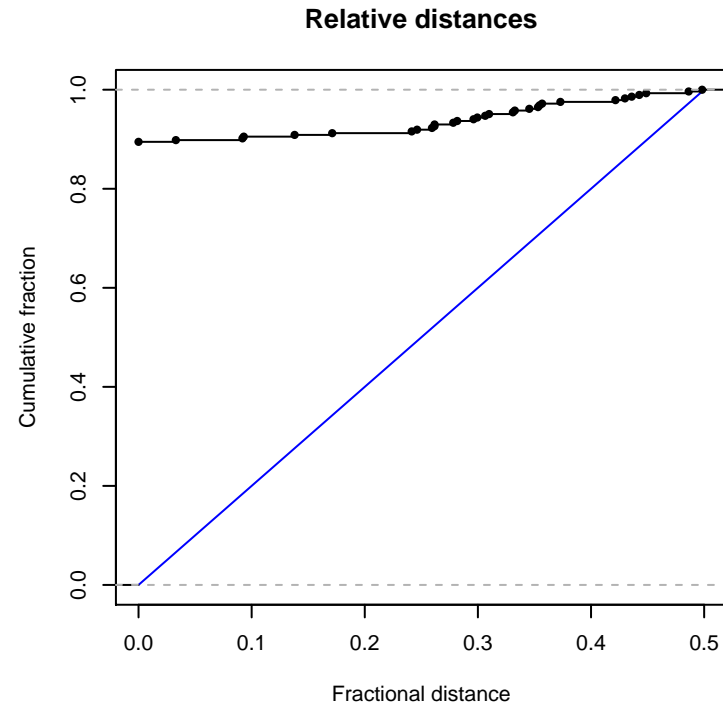
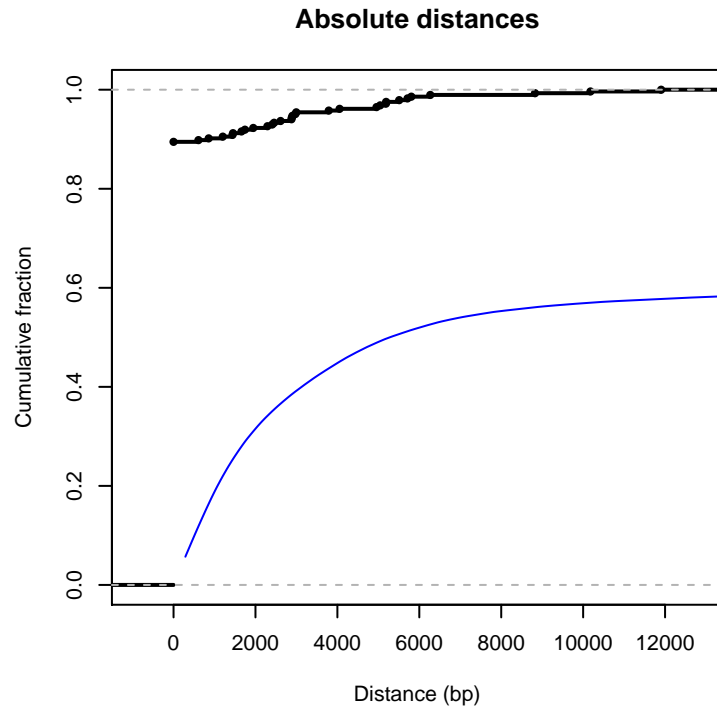
pcontig_010

Query population : 309
Reference population : 279
Relative Ks p-value : 0
Relative ecdf deviation area : 0.204836
Relative ecdf area correlation : 0.818814
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.46539



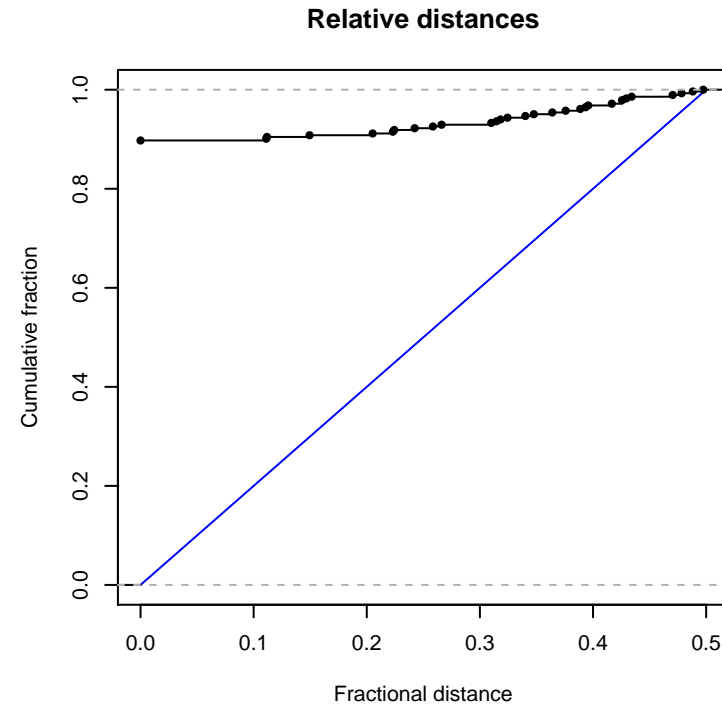
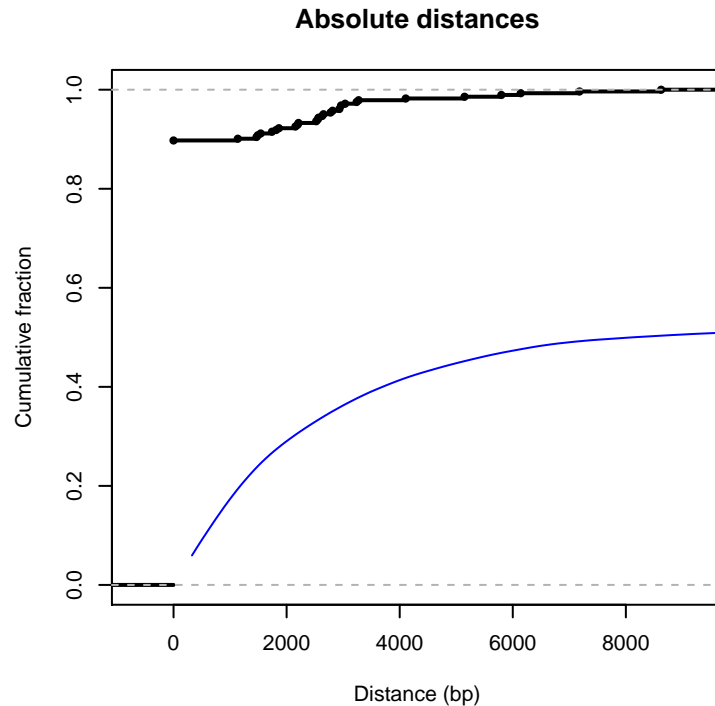
pcontig_011

Query population : 285
Reference population : 302
Relative Ks p-value : 0
Relative ecdf deviation area : 0.217988
Relative ecdf area correlation : 0.871172
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.0659



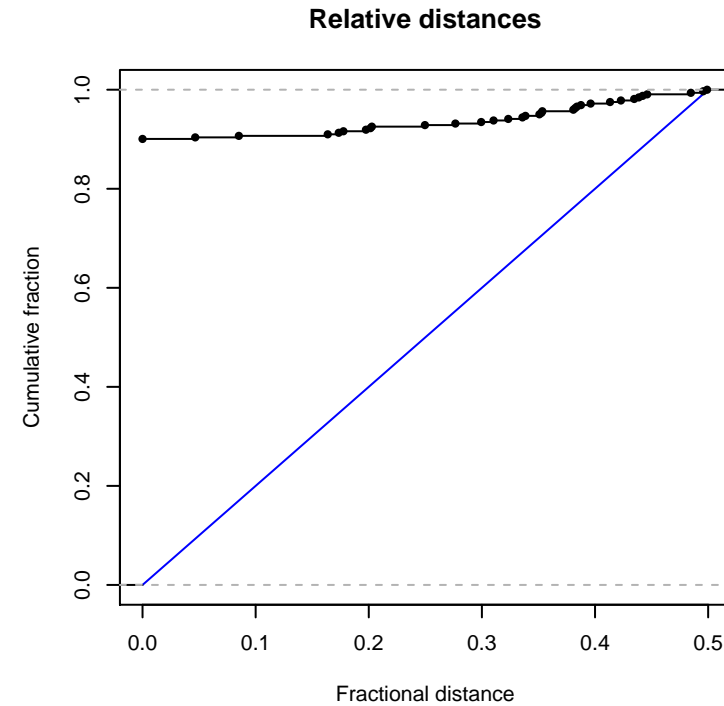
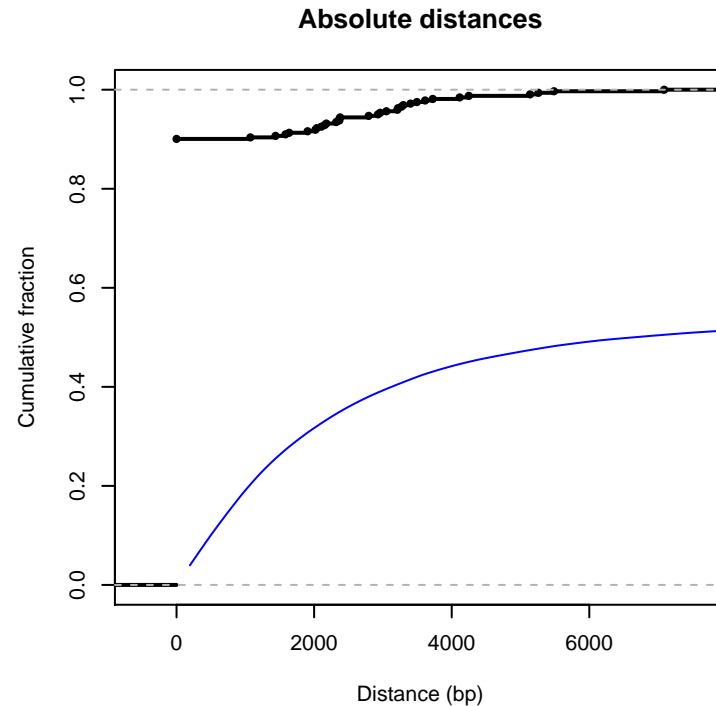
pcontig_012

Query population : 283
Reference population : 280
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215511
Relative ecdf area correlation : 0.862469
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.29482



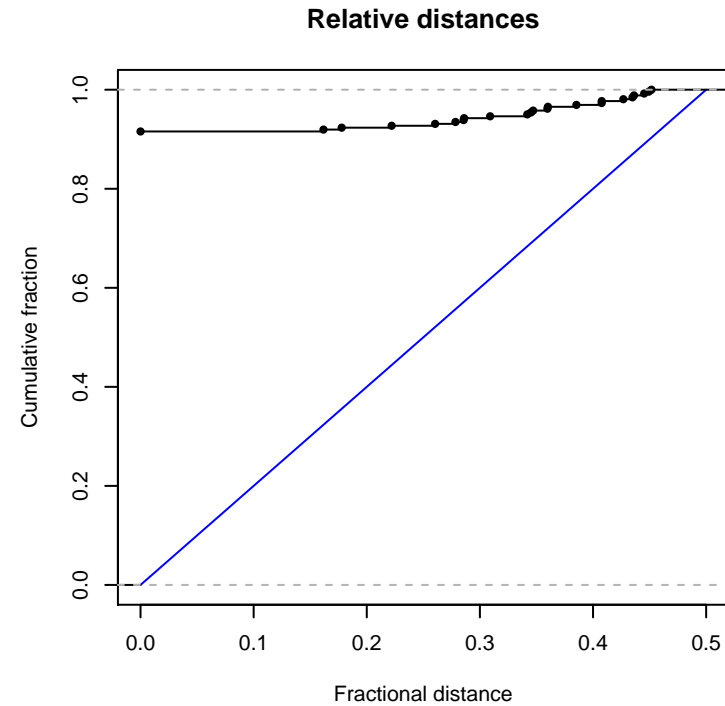
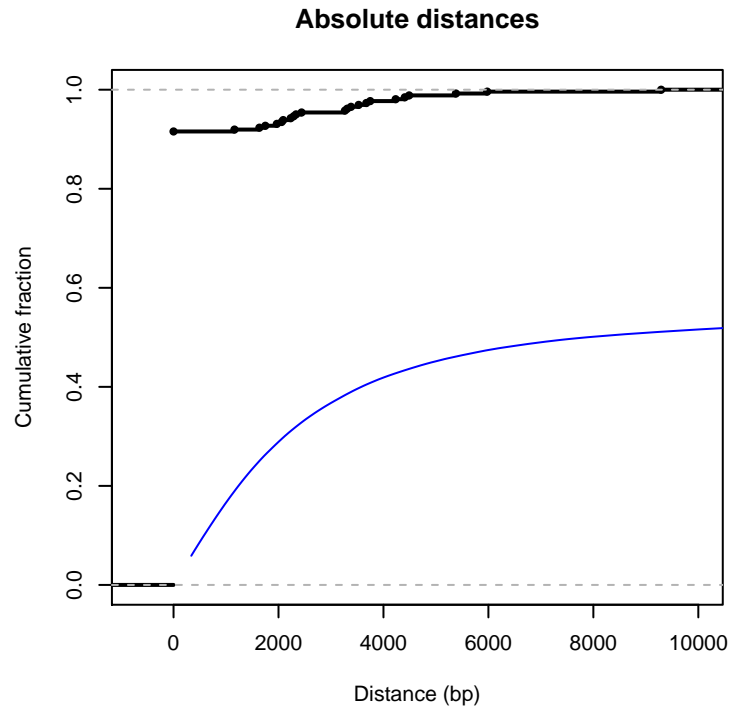
pcontig_013

Query population : 322
Reference population : 312
Relative Ks p-value : 0
Relative ecdf deviation area : 0.217884
Relative ecdf area correlation : 0.87023
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.76298



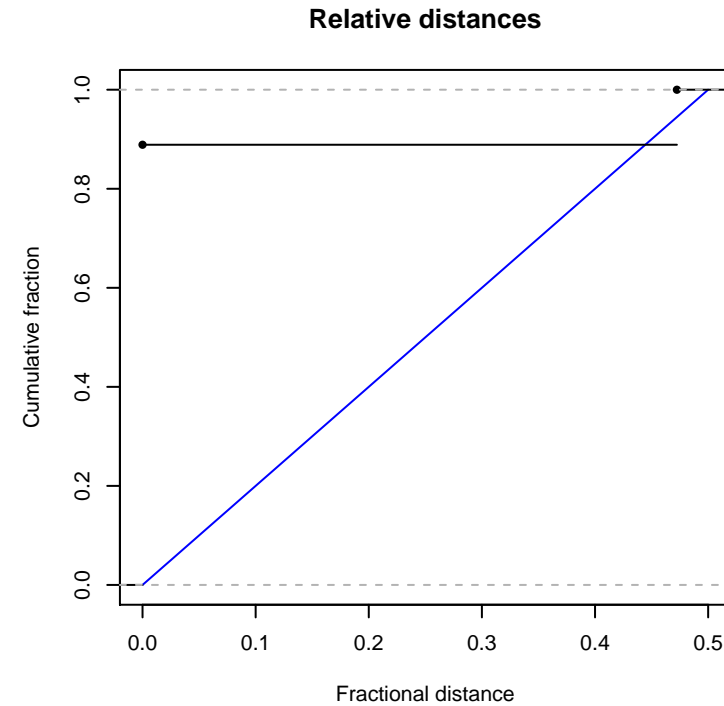
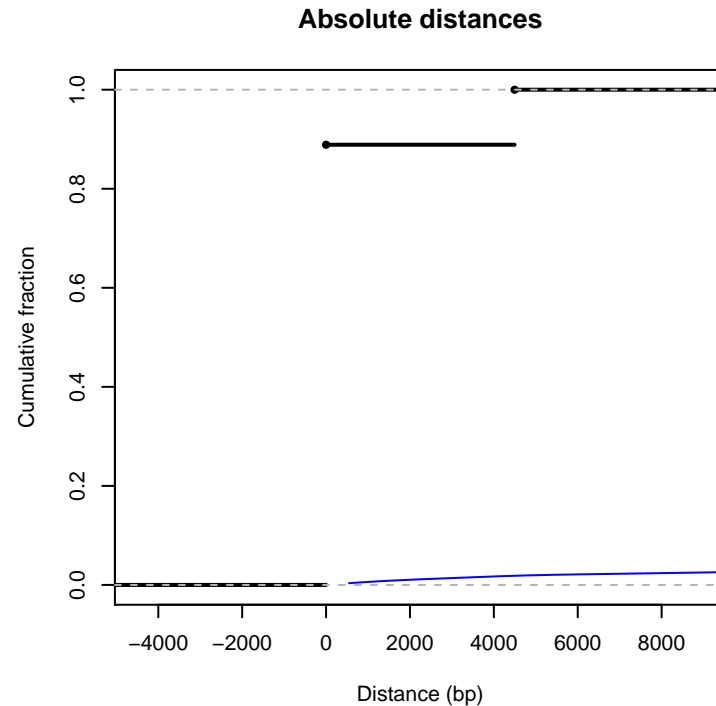
pcontig_014

Query population : 261
Reference population : 267
Relative Ks p-value : 0
Relative ecdf deviation area : 0.221085
Relative ecdf area correlation : 0.883836
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.22006



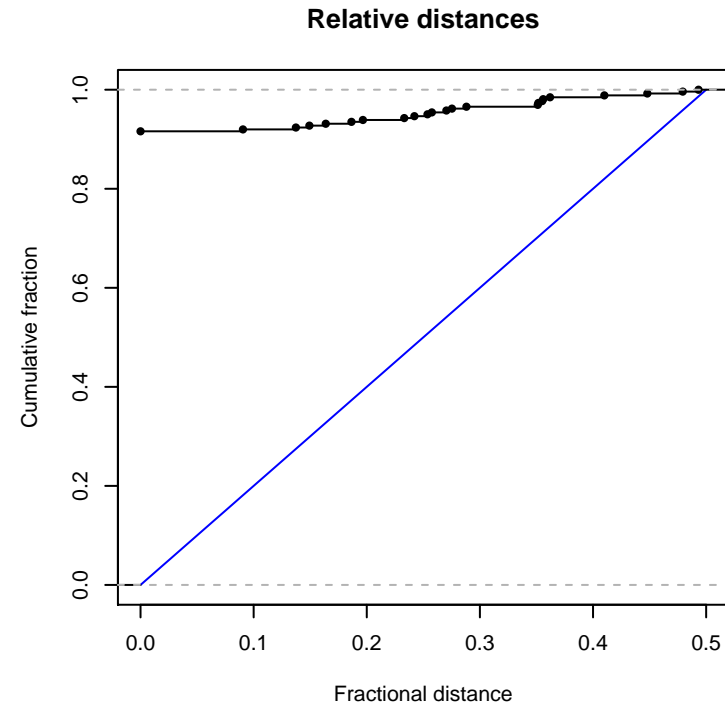
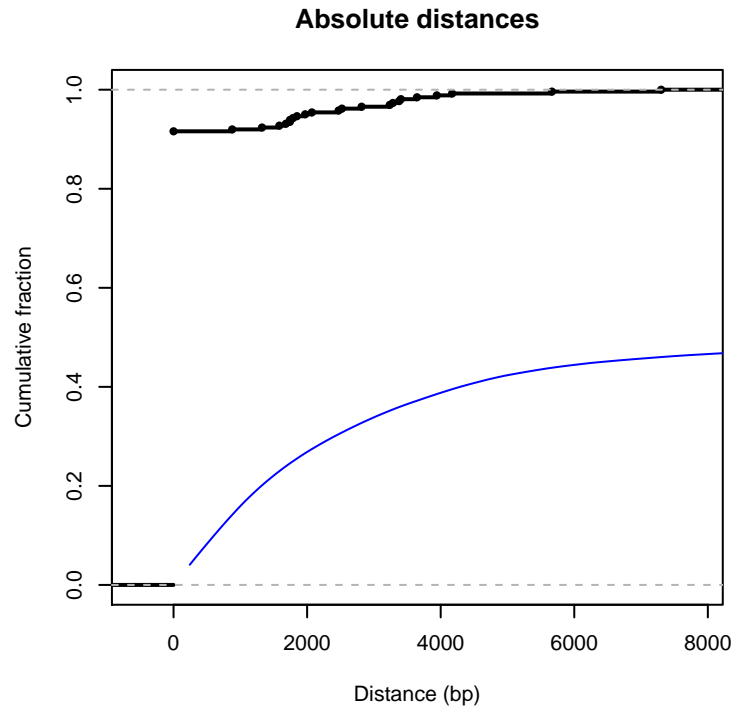
pcontig_015

Query population : 9
Reference population : 10
Relative Ks p-value : 5.16276e-09
Relative ecdf deviation area : 0.199091
Relative ecdf area correlation : 0.79005
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 237.585



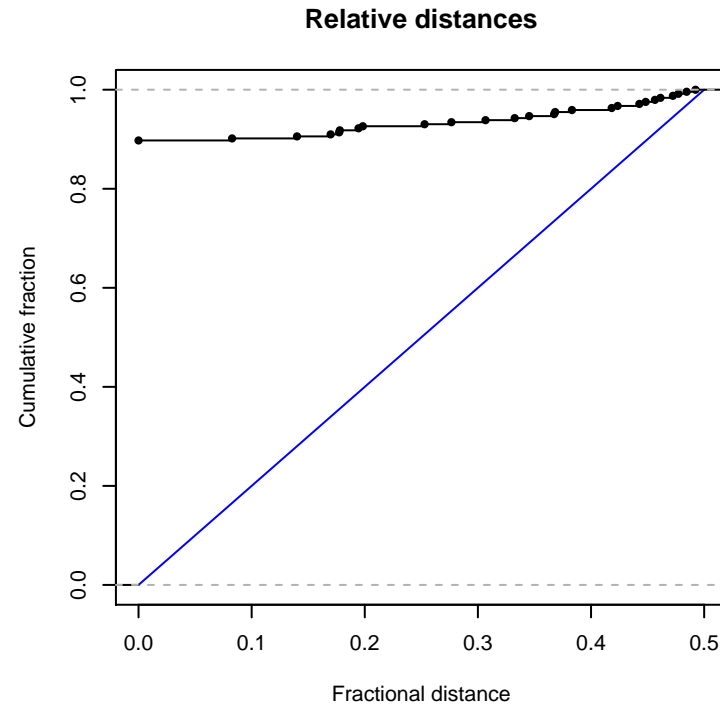
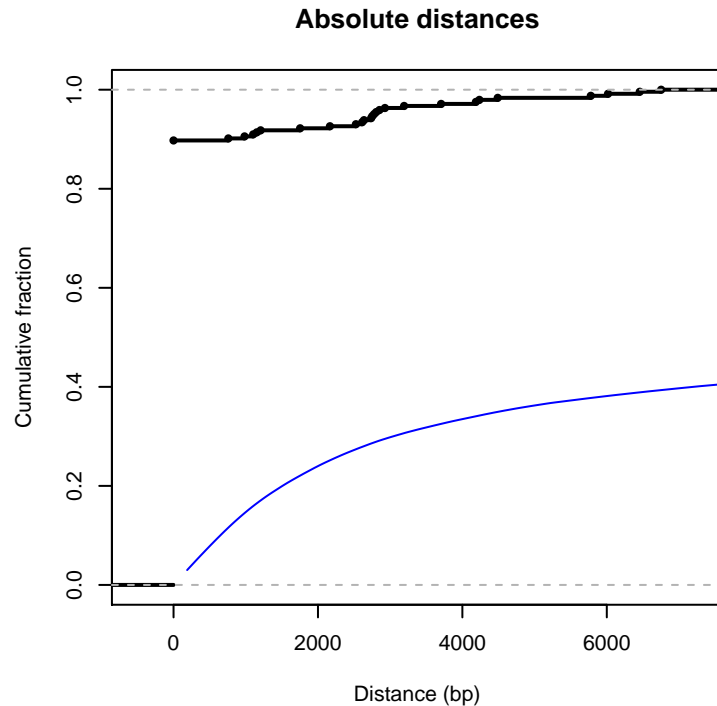
pcontig_016

Query population : 262
Reference population : 257
Relative Ks p-value : 0
Relative ecdf deviation area : 0.225732
Relative ecdf area correlation : 0.903048
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.39296



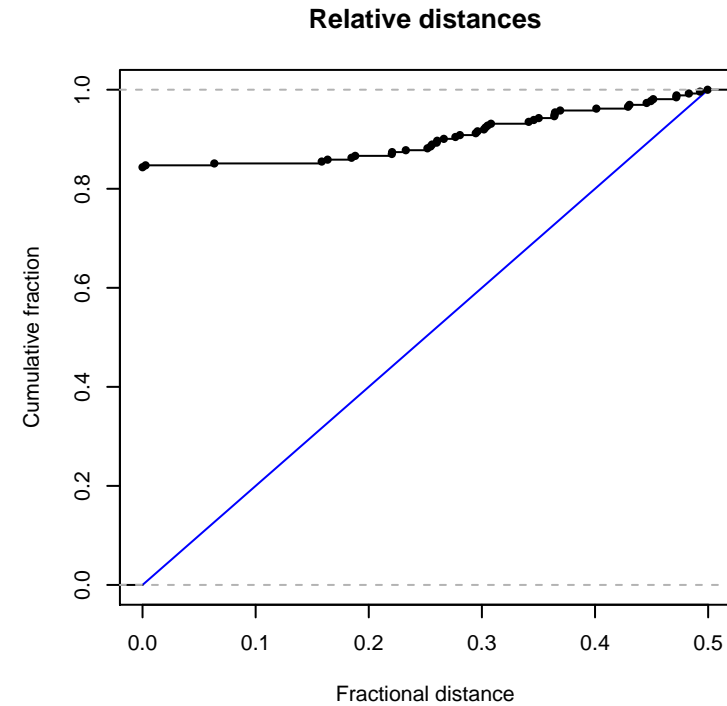
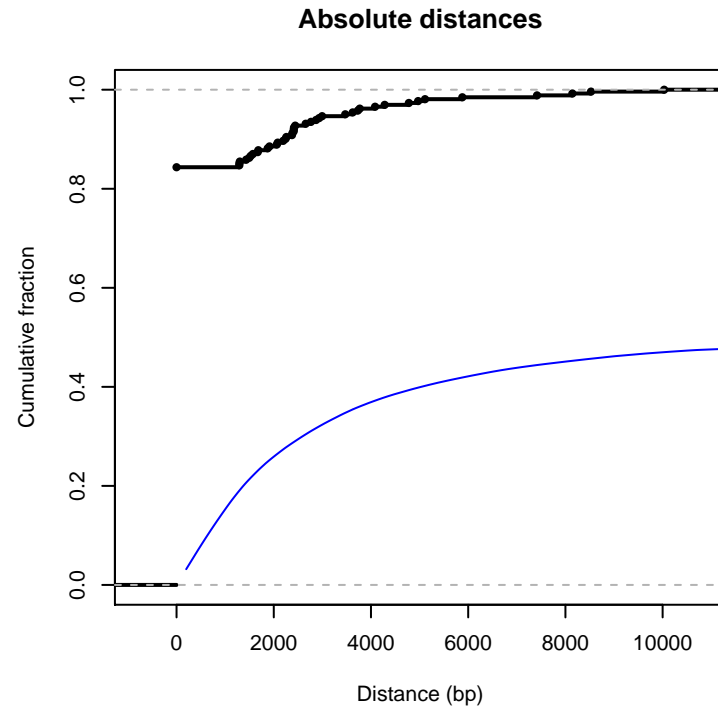
pcontig_017

Query population : 244
Reference population : 244
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215762
Relative ecdf area correlation : 0.863103
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.10557



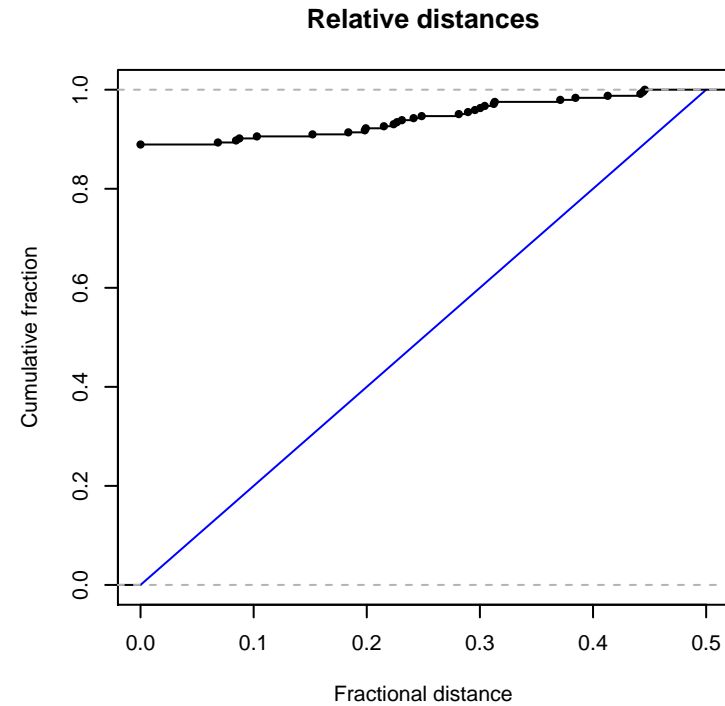
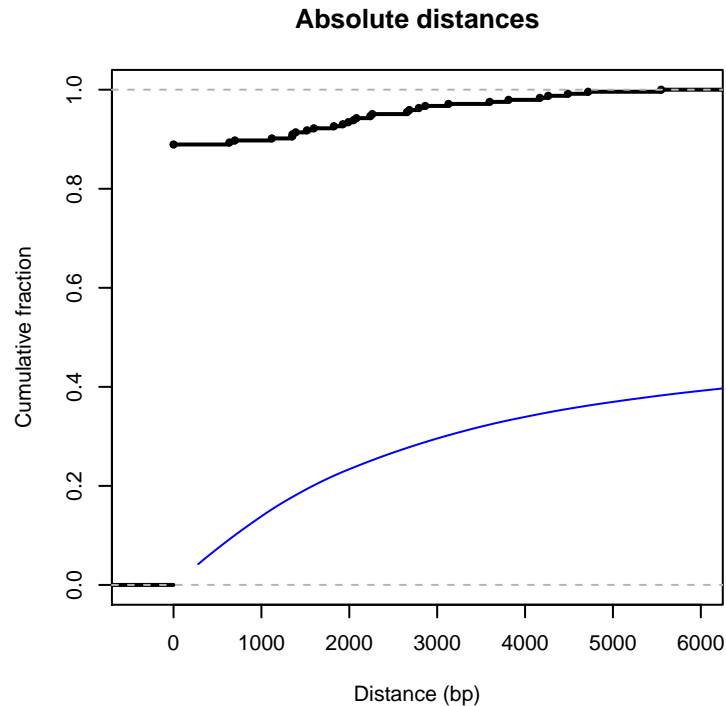
pcontig_018

Query population : 262
Reference population : 245
Relative Ks p-value : 0
Relative ecdf deviation area : 0.200212
Relative ecdf area correlation : 0.803426
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.22098



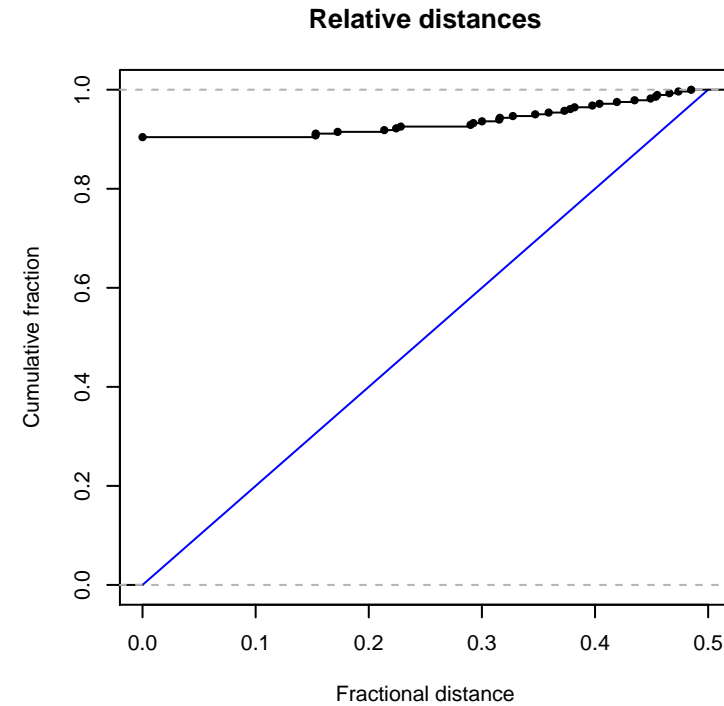
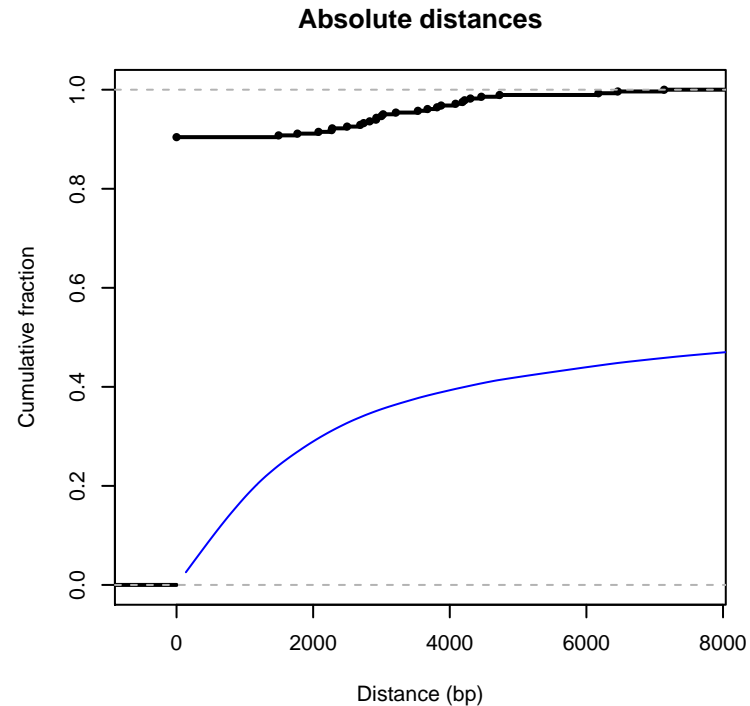
pcontig_019

Query population : 244
Reference population : 229
Relative Ks p-value : 0
Relative ecdf deviation area : 0.221146
Relative ecdf area correlation : 0.884271
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.14508



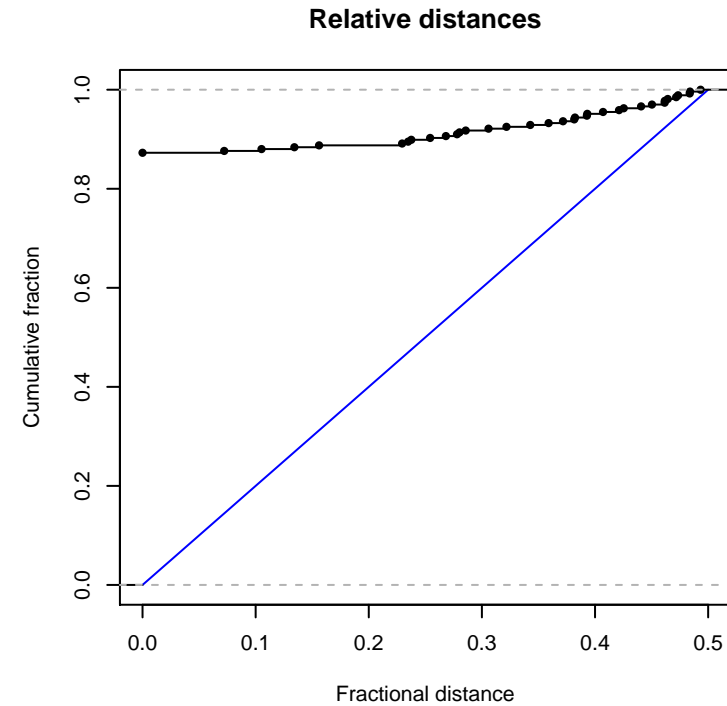
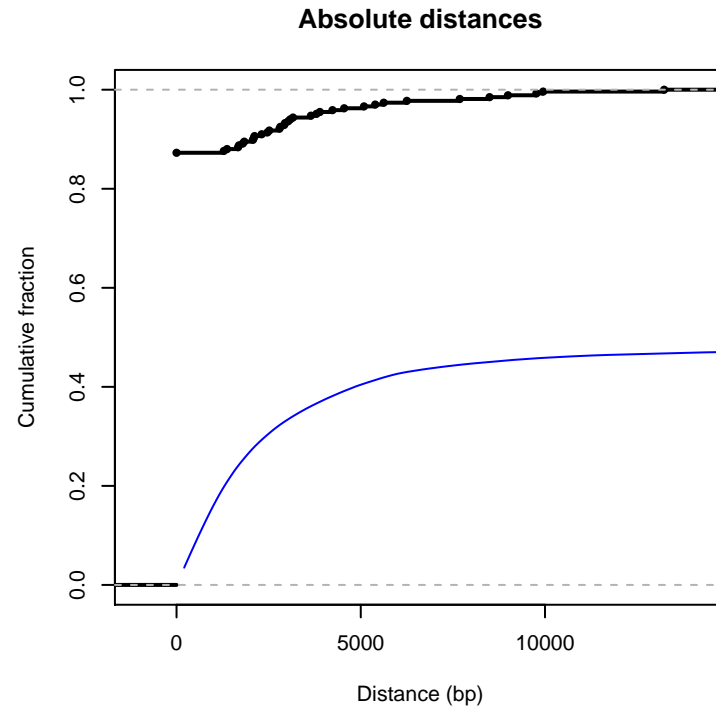
pcontig_020

Query population : 282
Reference population : 287
Relative Ks p-value : 0
Relative ecdf deviation area : 0.21708
Relative ecdf area correlation : 0.868612
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.38069



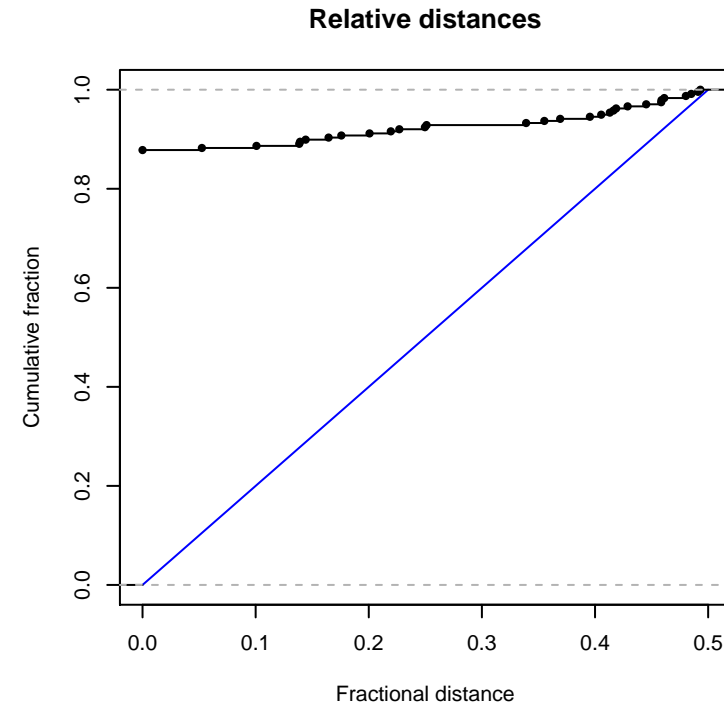
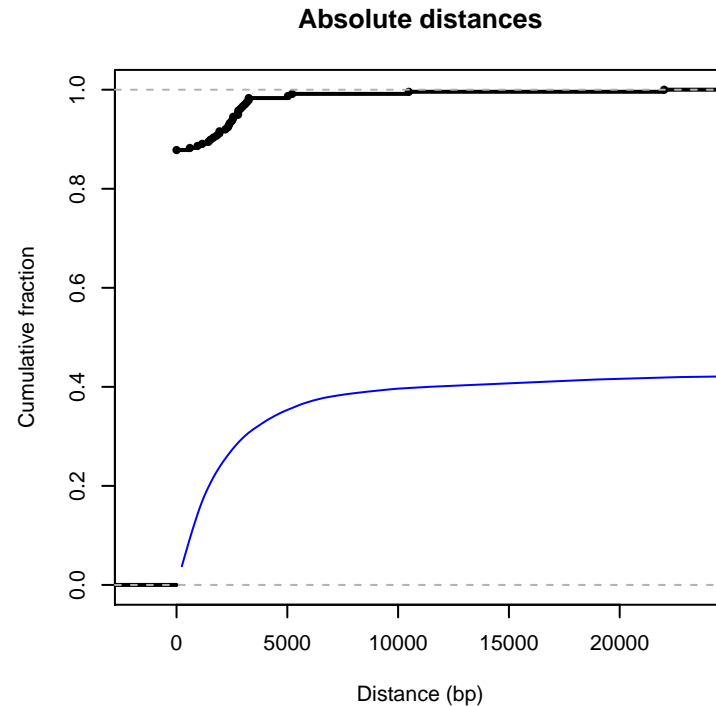
pcontig_021

Query population : 267
Reference population : 258
Relative Ks p-value : 0
Relative ecdf deviation area : 0.206199
Relative ecdf area correlation : 0.824345
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.97678



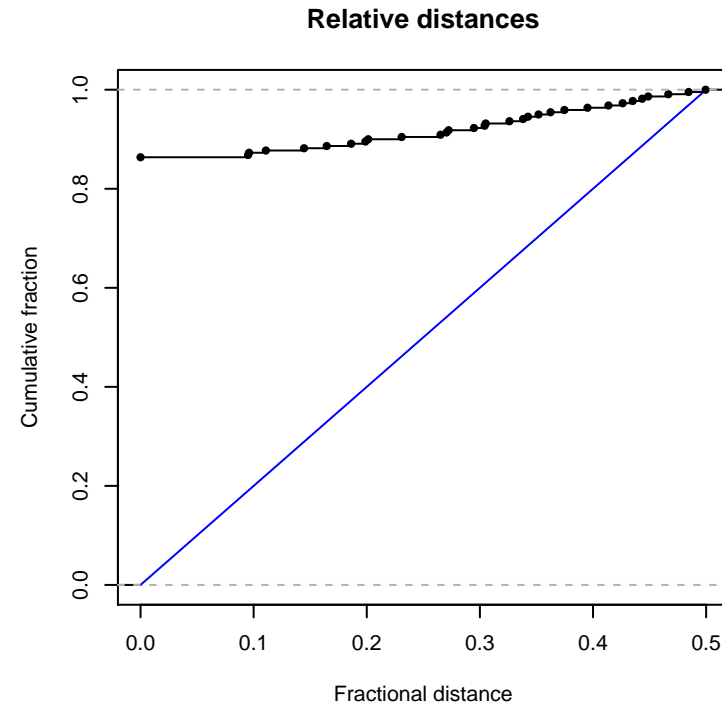
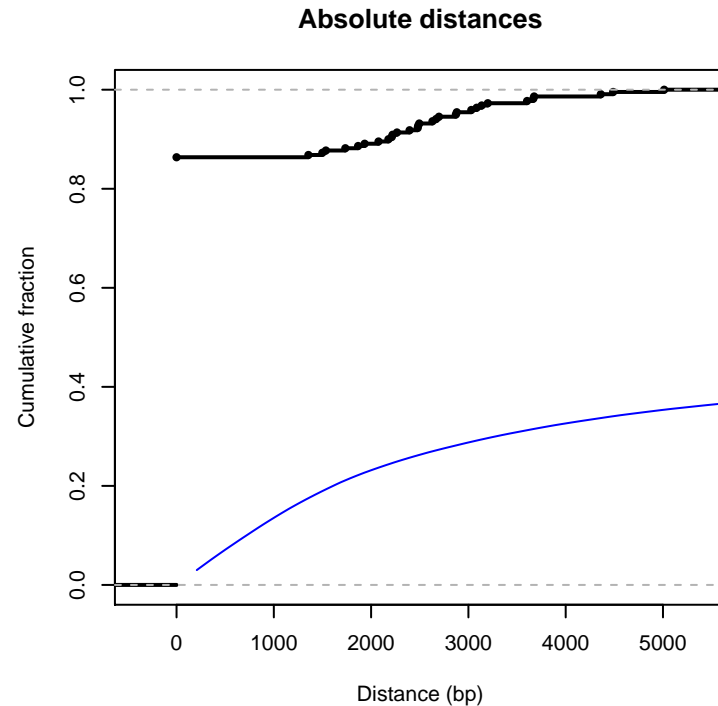
pcontig_022

Query population : 238
Reference population : 241
Relative Ks p-value : 0
Relative ecdf deviation area : 0.21062
Relative ecdf area correlation : 0.842388
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.00763



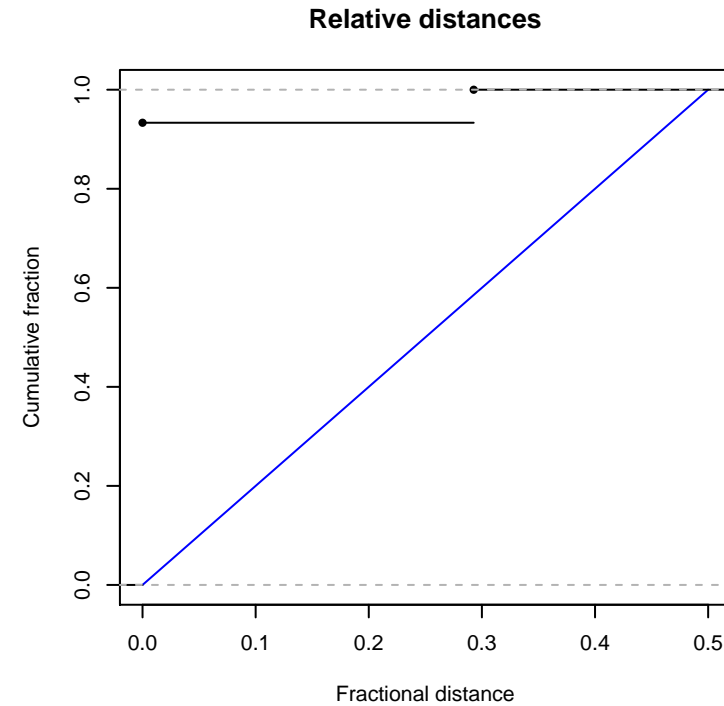
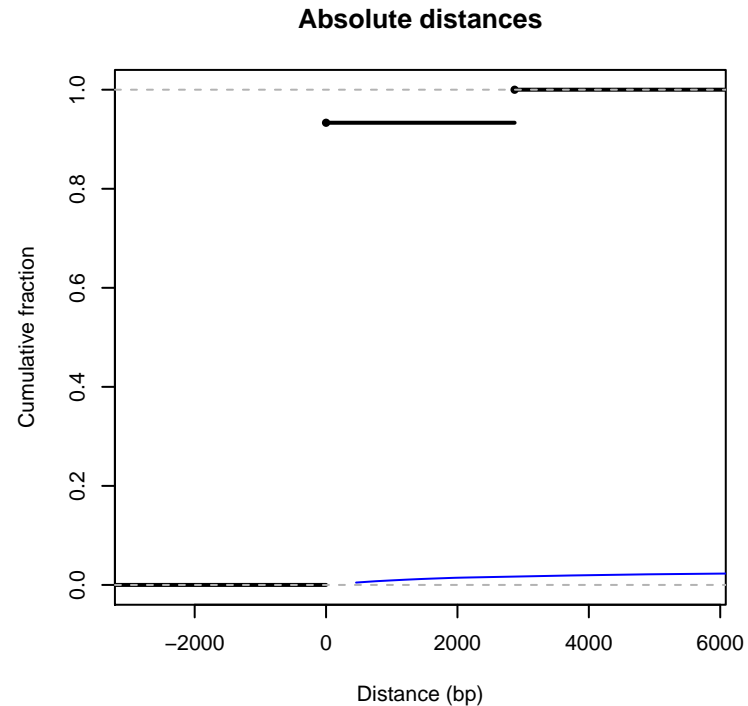
pcontig_023

Query population : 220
Reference population : 221
Relative Ks p-value : 0
Relative ecdf deviation area : 0.207672
Relative ecdf area correlation : 0.831841
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.20072



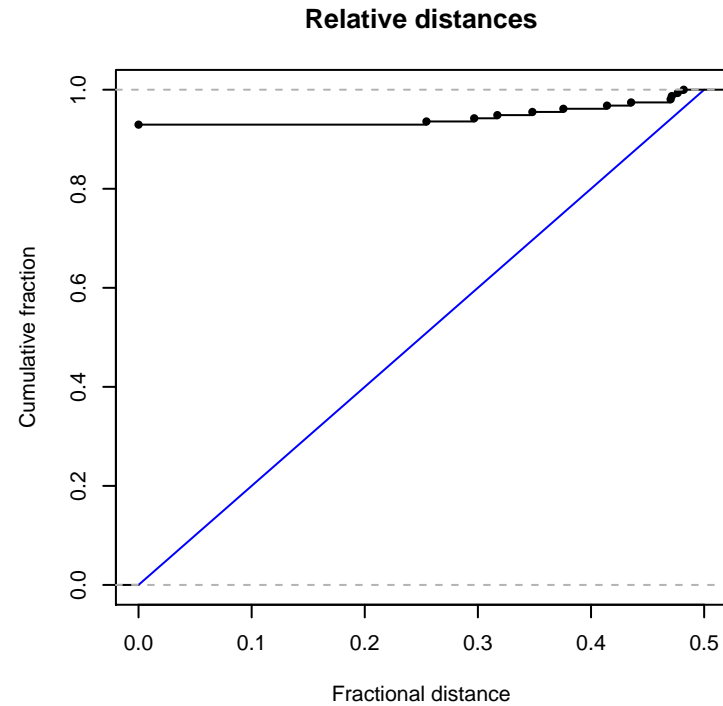
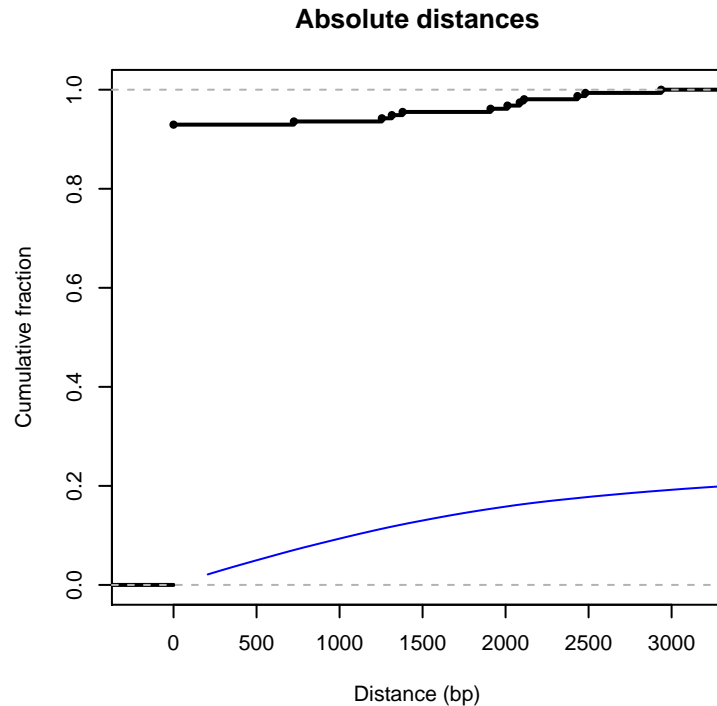
pcontig_024

Query population : 15
Reference population : 16
Relative Ks p-value : 0
Relative ecdf deviation area : 0.230688
Relative ecdf area correlation : 0.921933
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 120.968



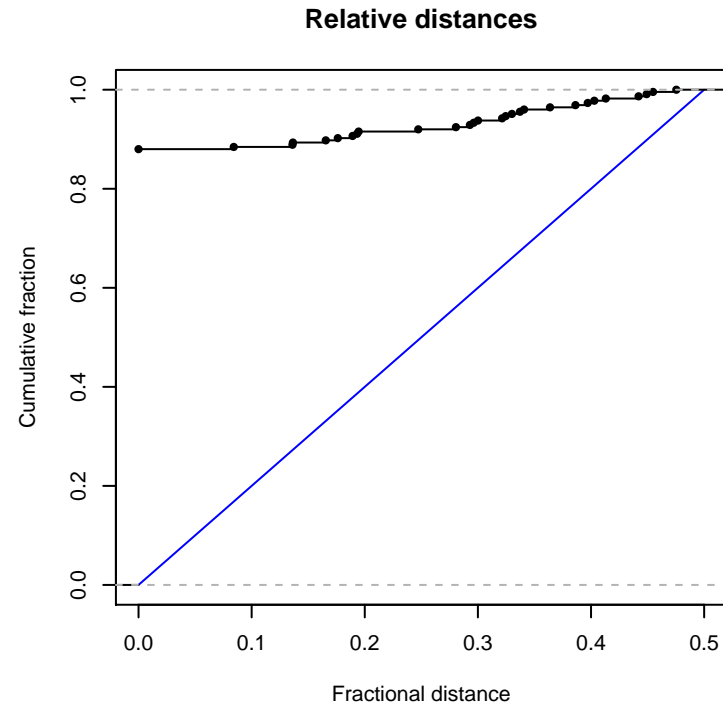
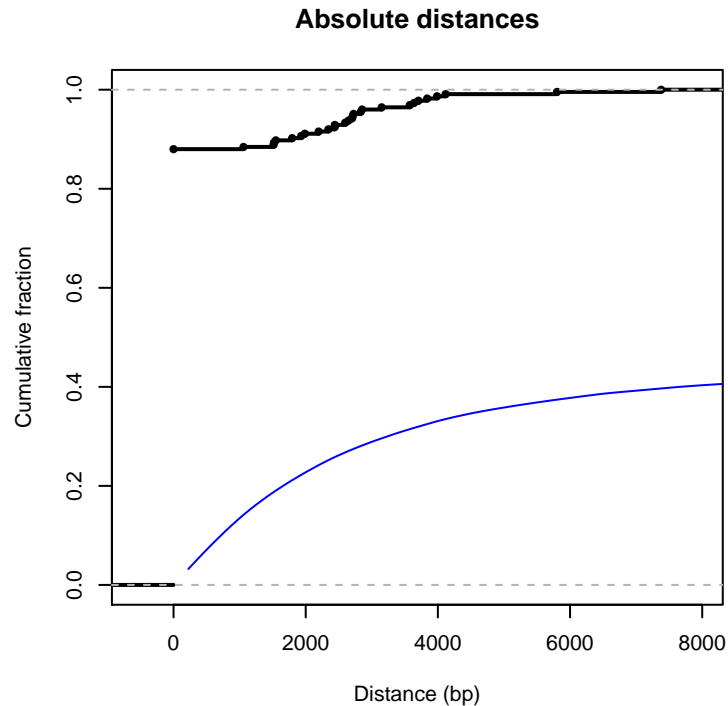
pcontig_025

Query population : 156
Reference population : 158
Relative Ks p-value : 0
Relative ecdf deviation area : 0.2222
Relative ecdf area correlation : 0.888666
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 13.1098



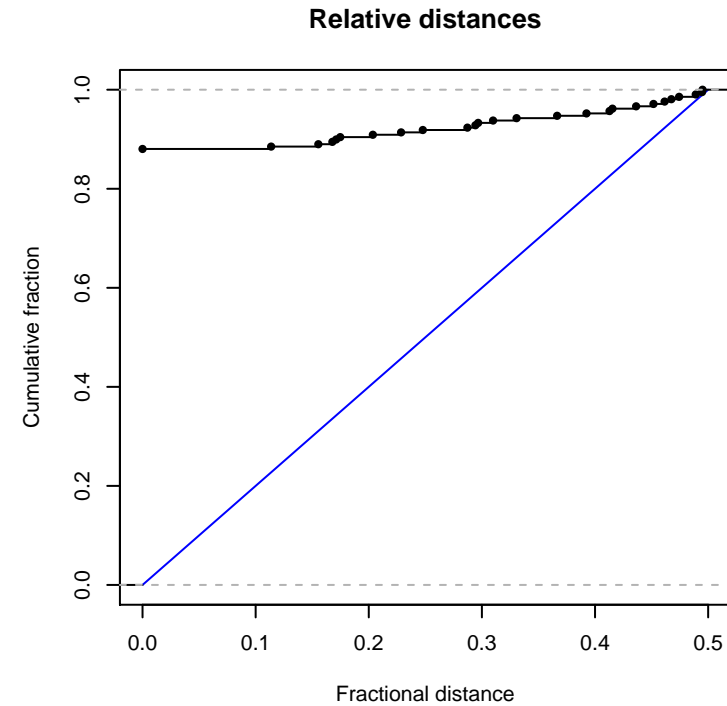
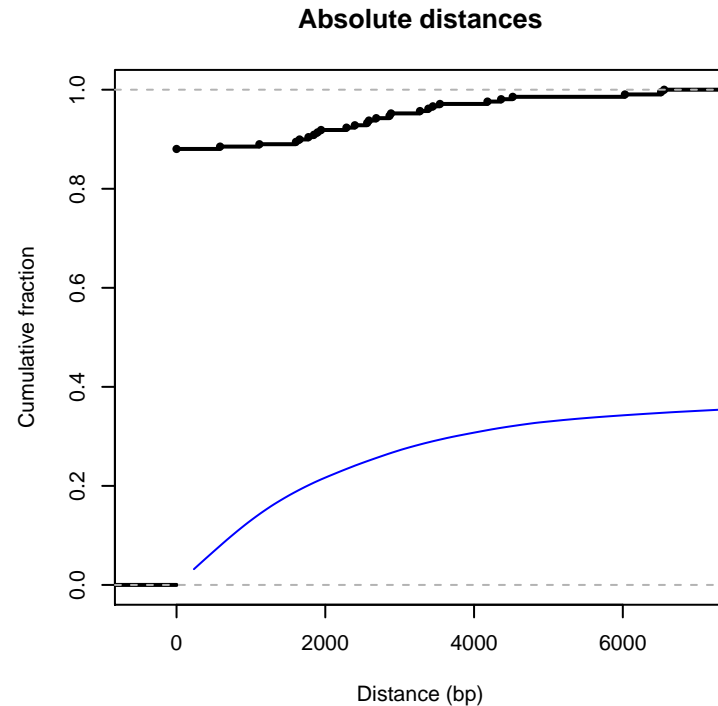
pcontig_026

Query population : 225
Reference population : 220
Relative Ks p-value : 0
Relative ecdf deviation area : 0.213974
Relative ecdf area correlation : 0.855445
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.10236



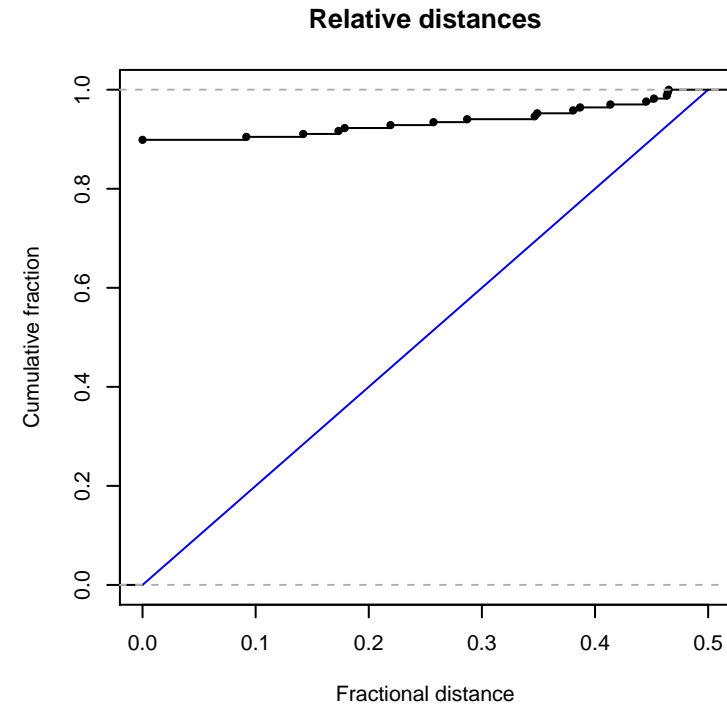
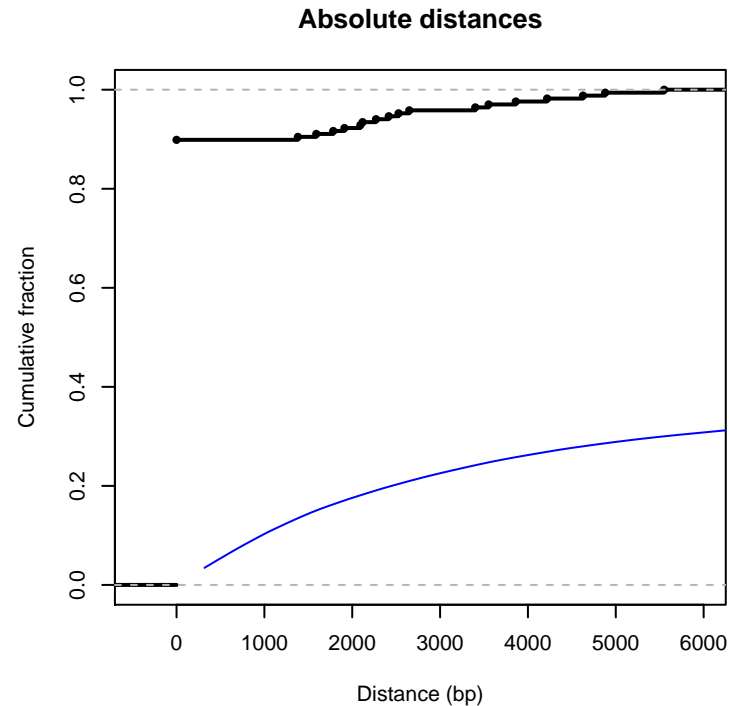
pcontig_027

Query population : 209
Reference population : 209
Relative Ks p-value : 0
Relative ecdf deviation area : 0.210065
Relative ecdf area correlation : 0.840408
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.7005



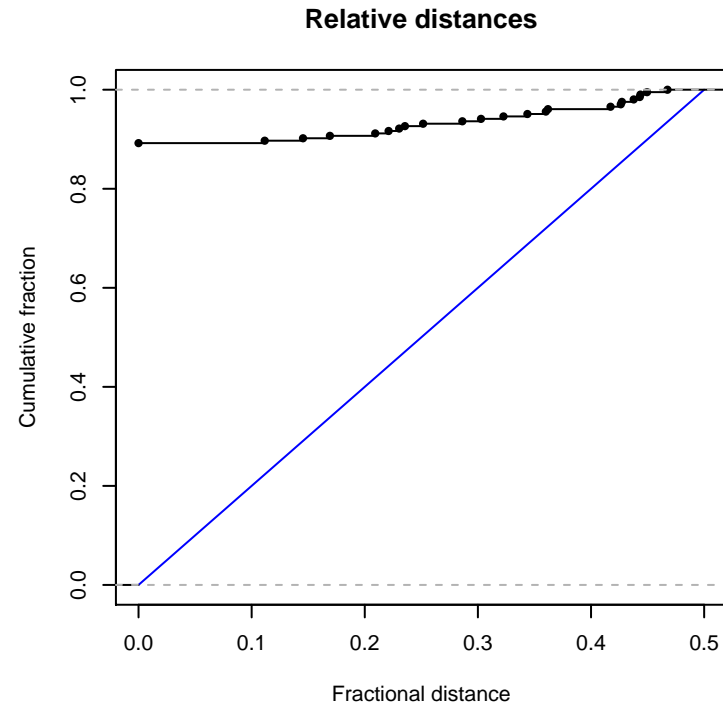
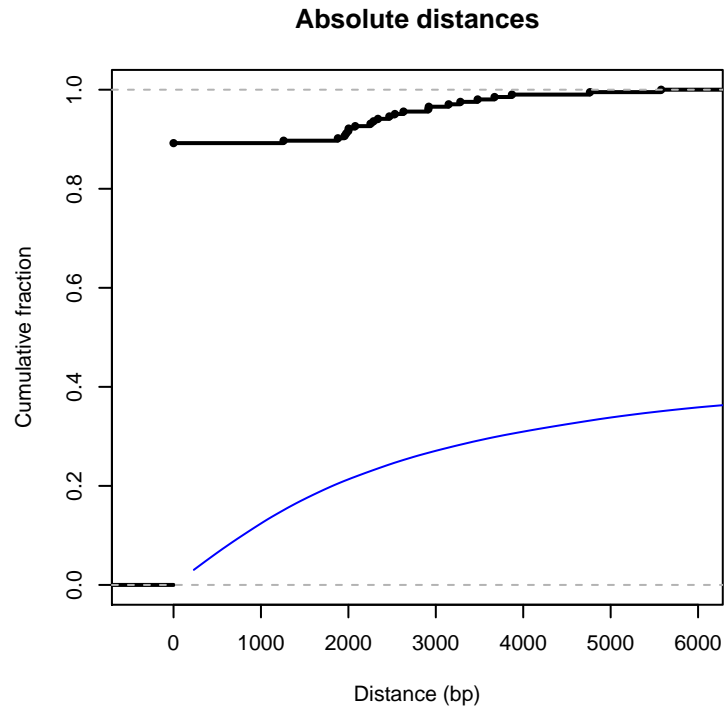
pcontig_028

Query population : 168
Reference population : 166
Relative Ks p-value : 0
Relative ecdf deviation area : 0.217164
Relative ecdf area correlation : 0.868665
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.50243



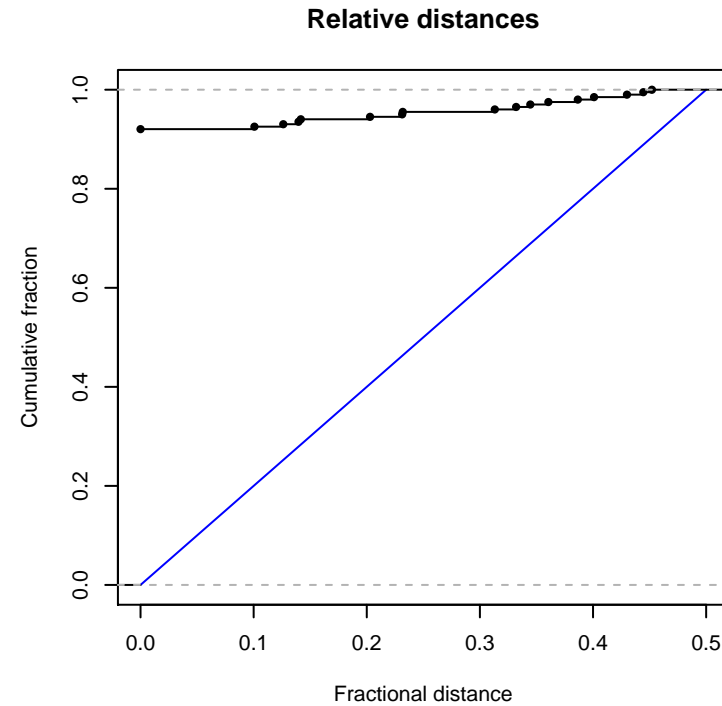
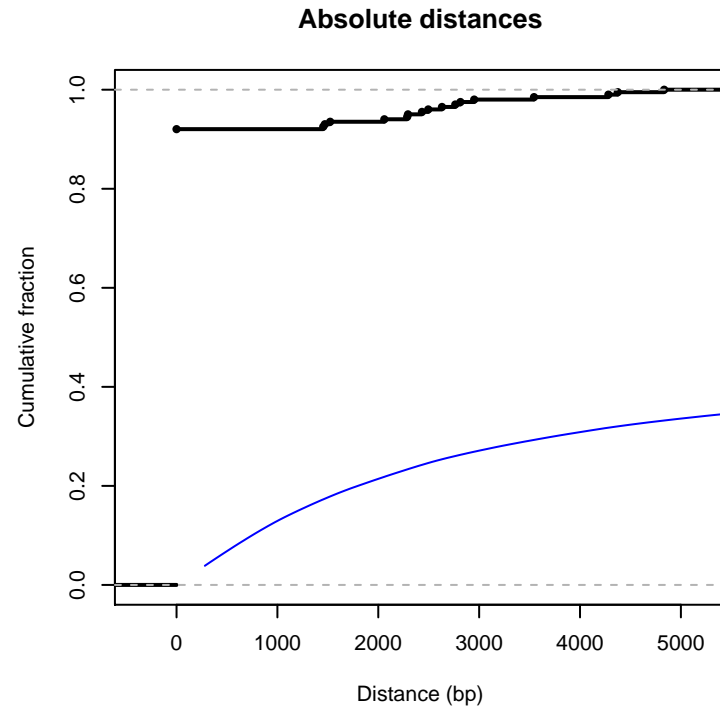
pcontig_029

Query population : 204
Reference population : 201
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215344
Relative ecdf area correlation : 0.861498
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.92393



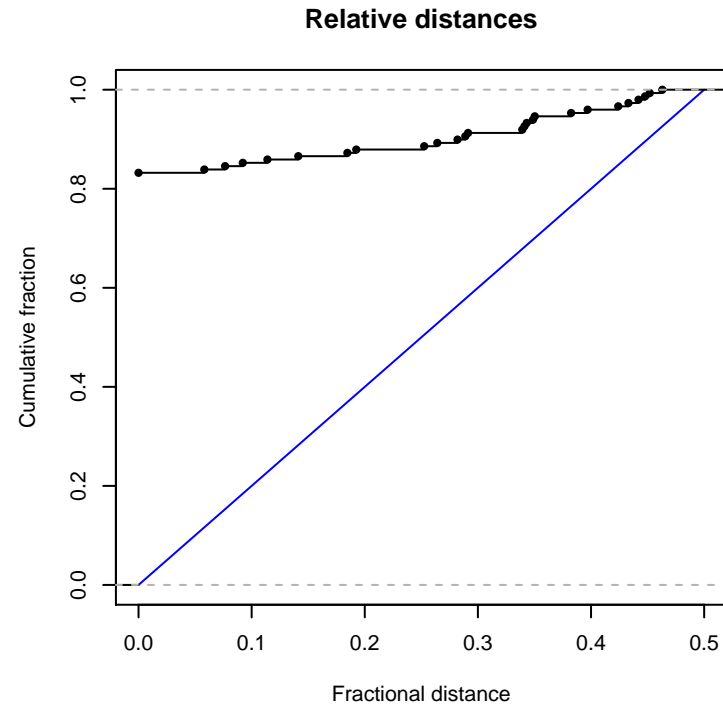
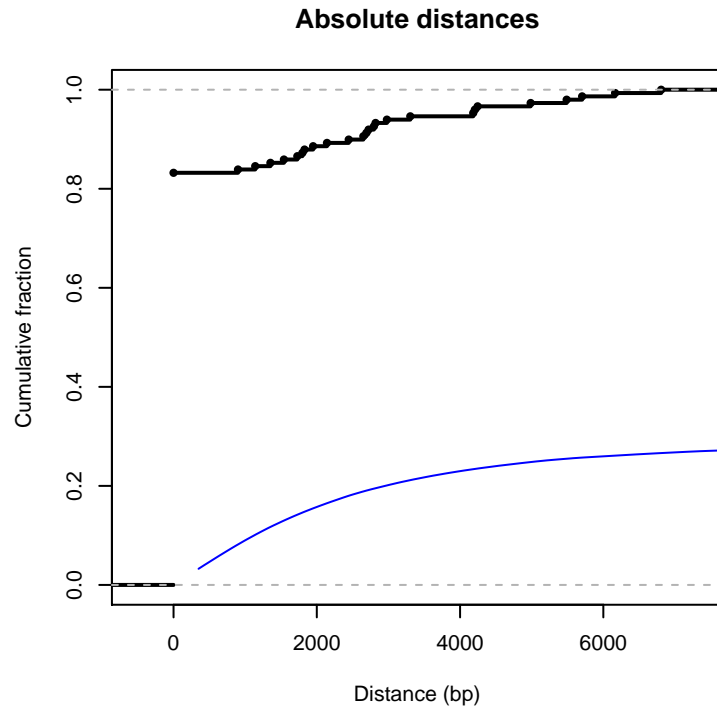
pcontig_030

Query population : 201
Reference population : 211
Relative Ks p-value : 0
Relative ecdf deviation area : 0.226879
Relative ecdf area correlation : 0.907692
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.90027



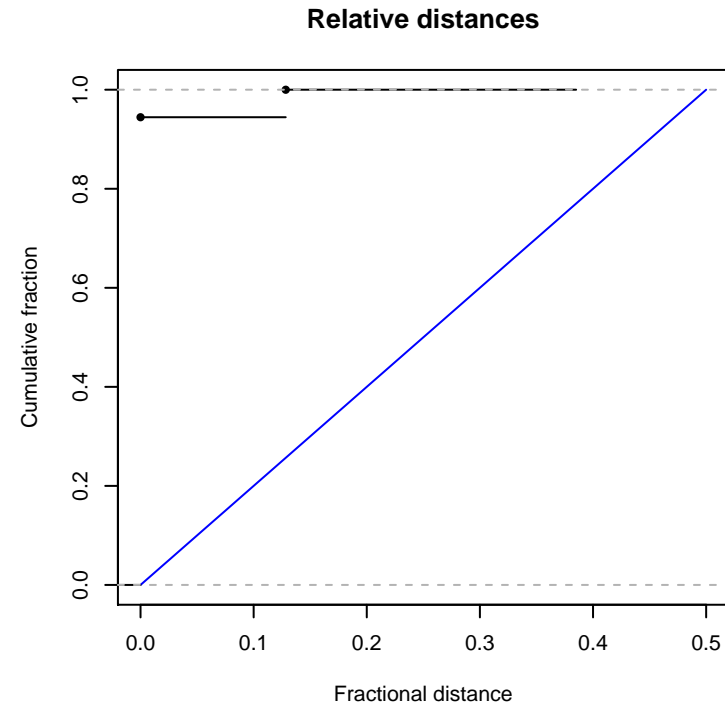
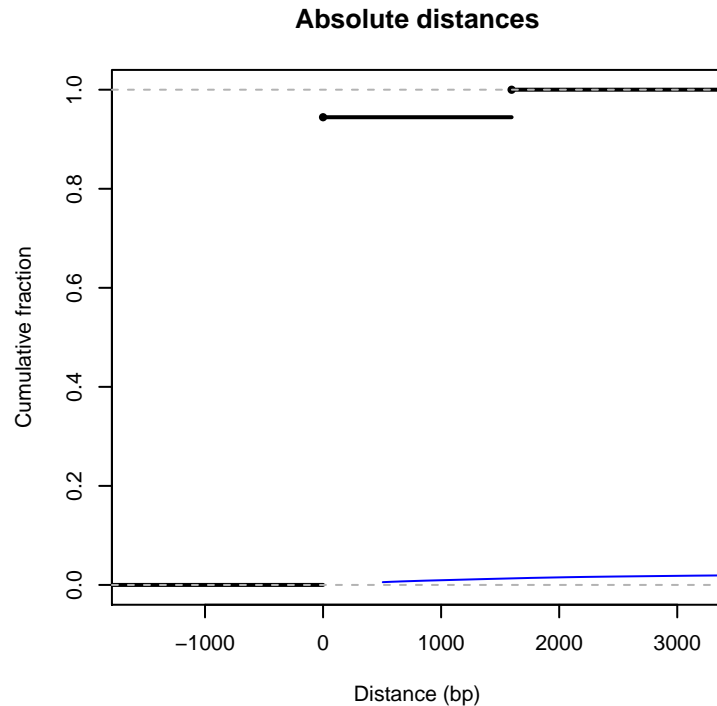
pcontig_031

Query population : 149
Reference population : 143
Relative Ks p-value : 0
Relative ecdf deviation area : 0.20026
Relative ecdf area correlation : 0.801294
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.0828



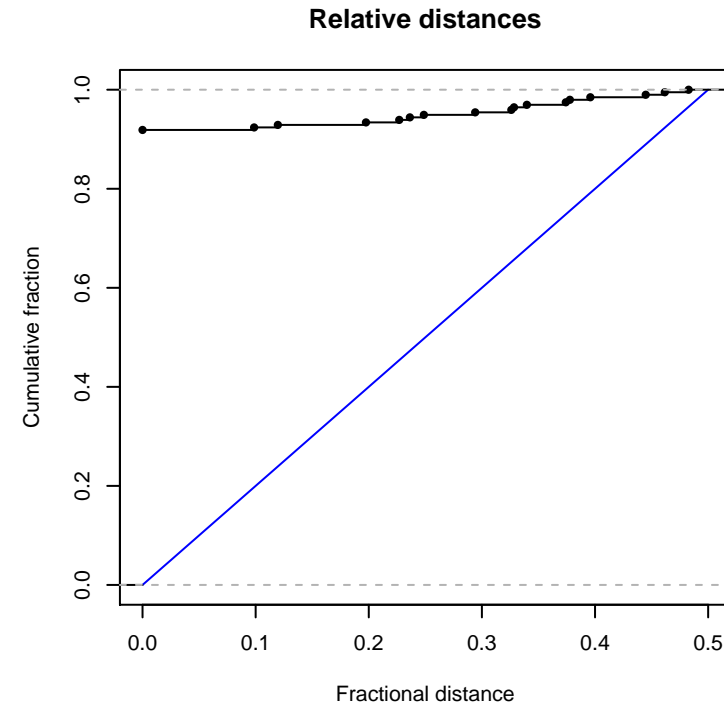
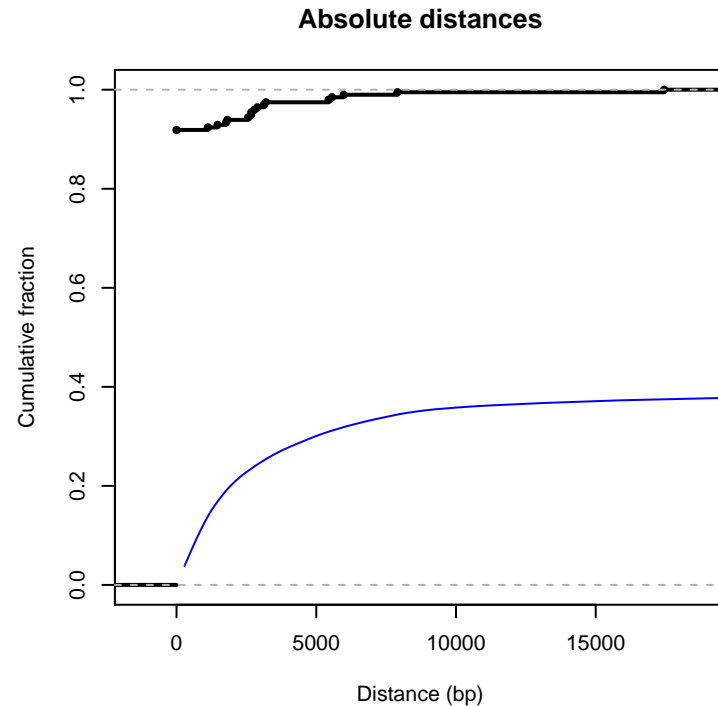
pcontig_032

Query population : 18
Reference population : 17
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.242902
Relative ecdf area correlation : 0.971477
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 148.505



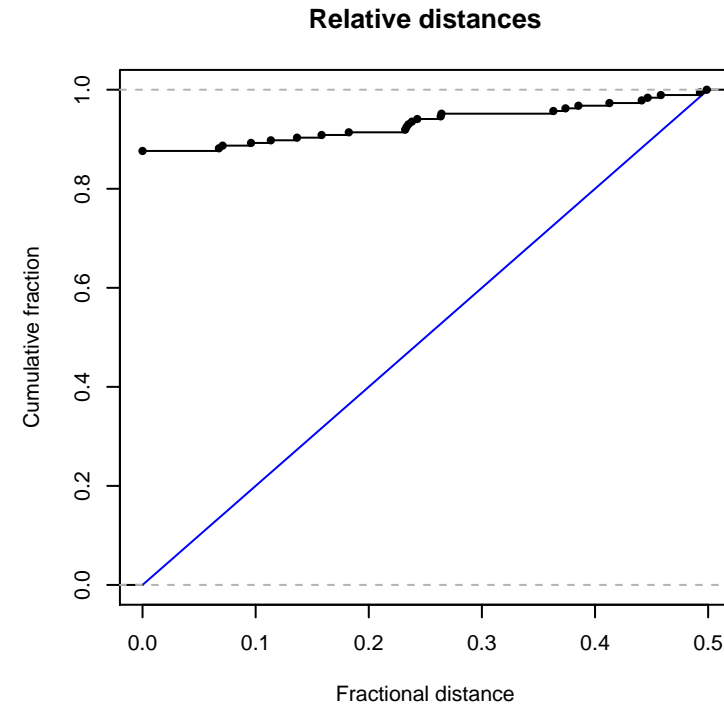
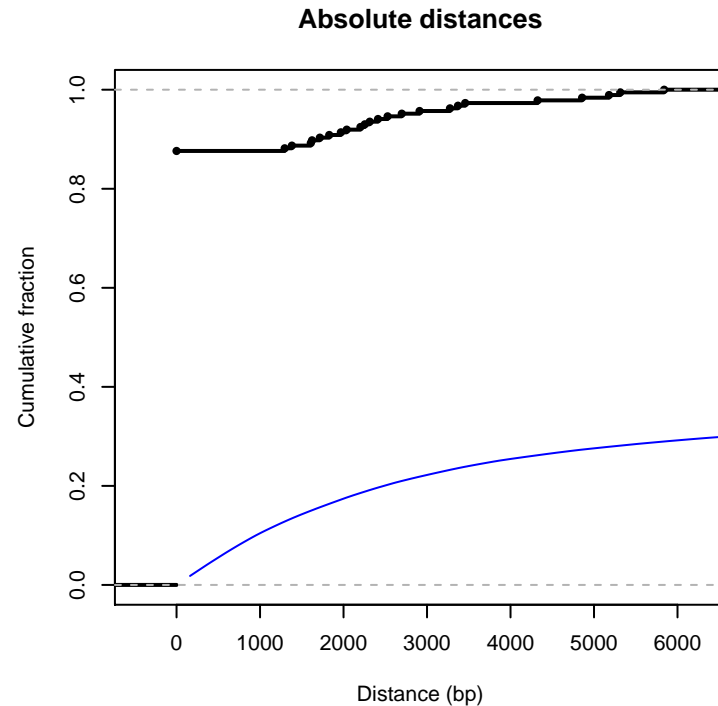
pcontig_033

Query population : 197
Reference population : 205
Relative Ks p-value : 0
Relative ecdf deviation area : 0.224764
Relative ecdf area correlation : 0.899431
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.91497



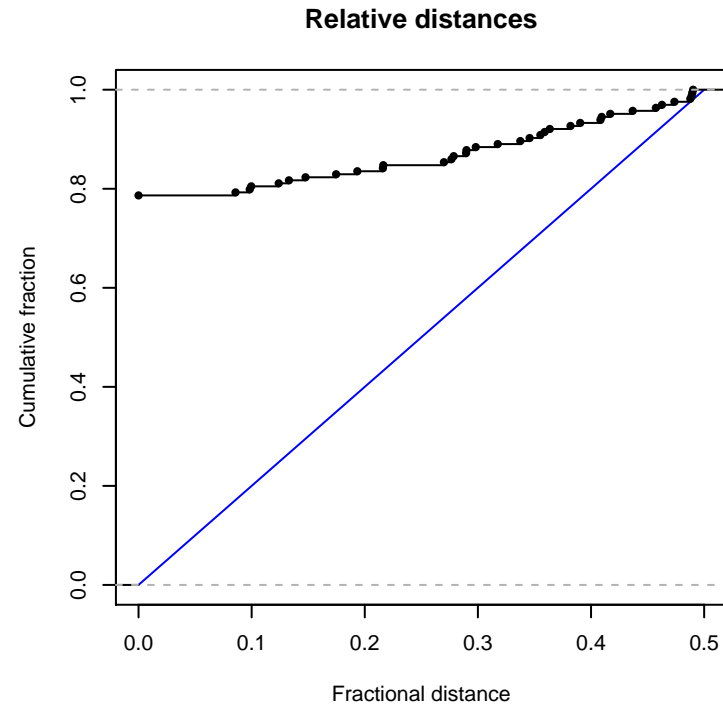
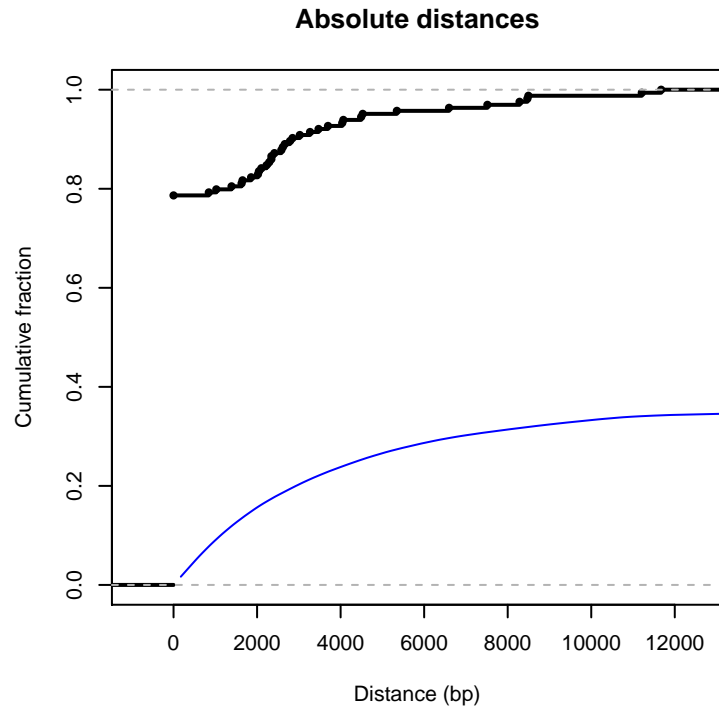
pcontig_034

Query population : 186
Reference population : 172
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215587
Relative ecdf area correlation : 0.862213
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.3187



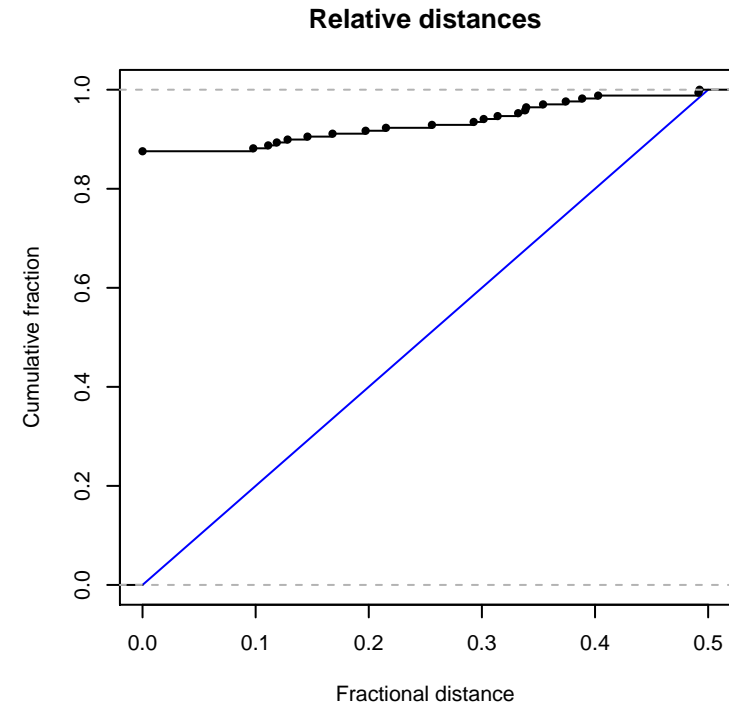
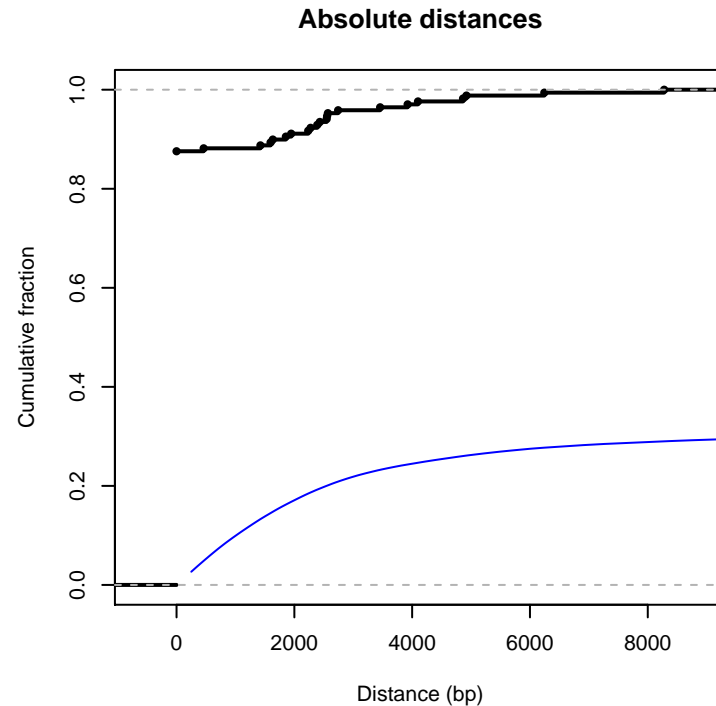
pcontig_035

Query population : 164
Reference population : 146
Relative Ks p-value : 0
Relative ecdf deviation area : 0.182603
Relative ecdf area correlation : 0.730144
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.7471



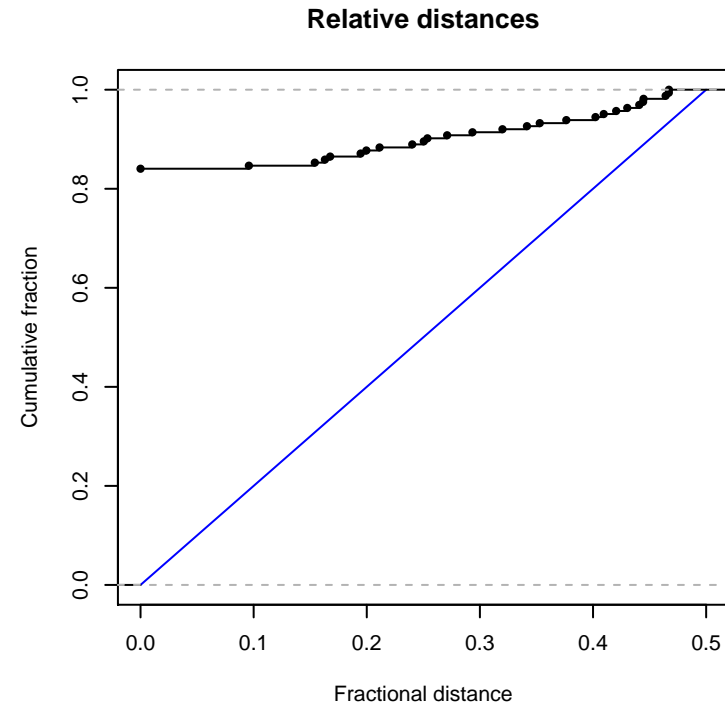
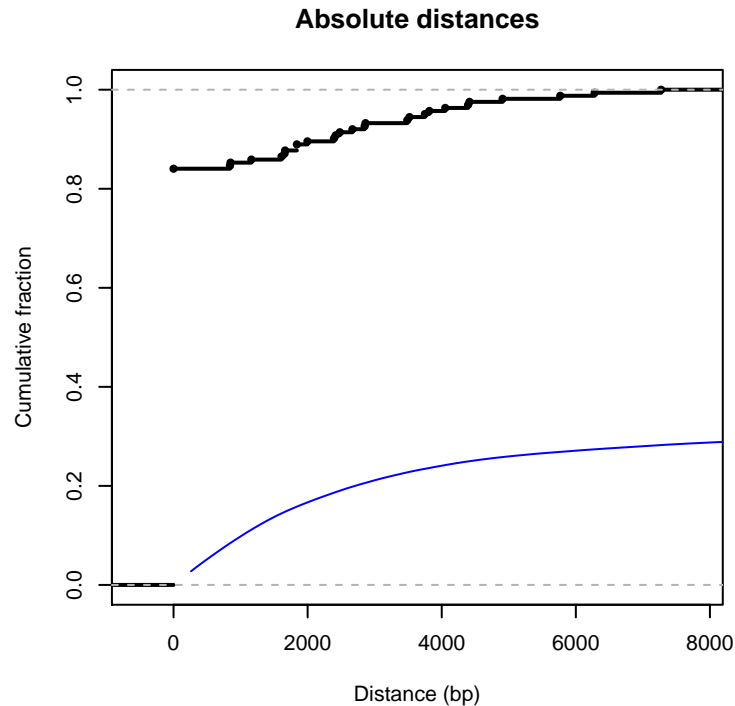
pcontig_036

Query population : 169
Reference population : 163
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215203
Relative ecdf area correlation : 0.861324
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.2135



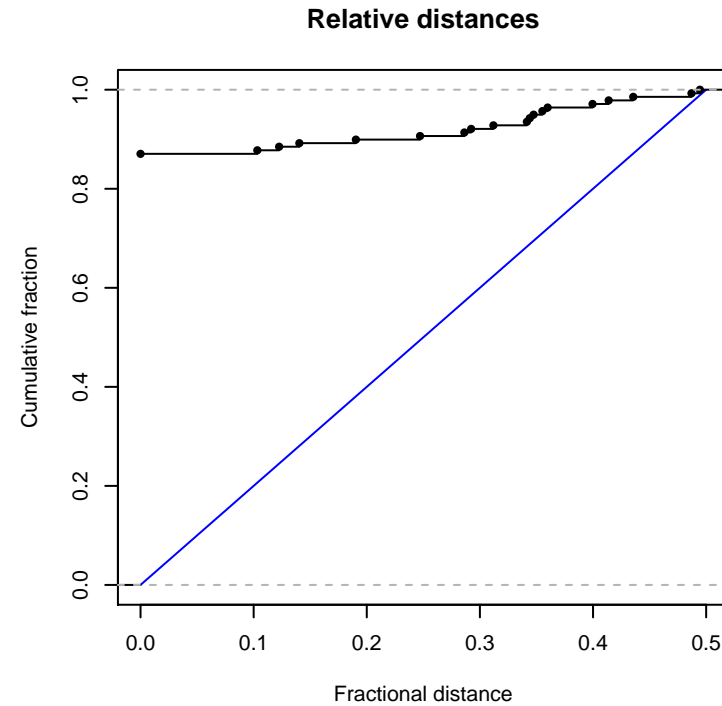
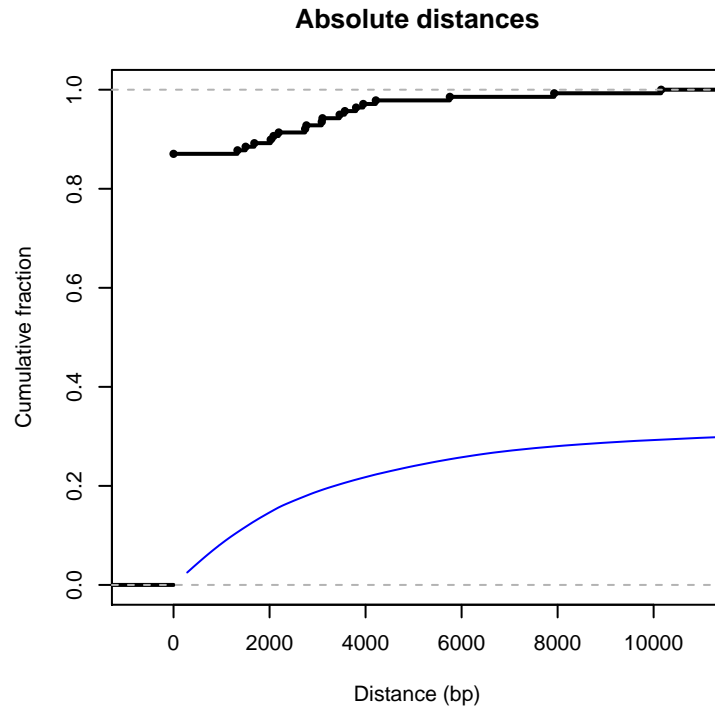
pcontig_037

Query population : 163
Reference population : 162
Relative Ks p-value : 0
Relative ecdf deviation area : 0.199251
Relative ecdf area correlation : 0.796908
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.96124



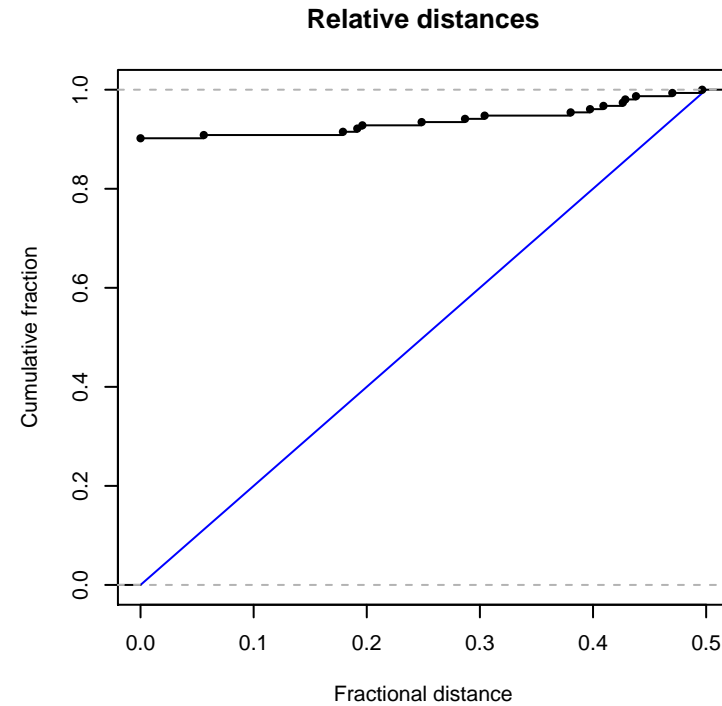
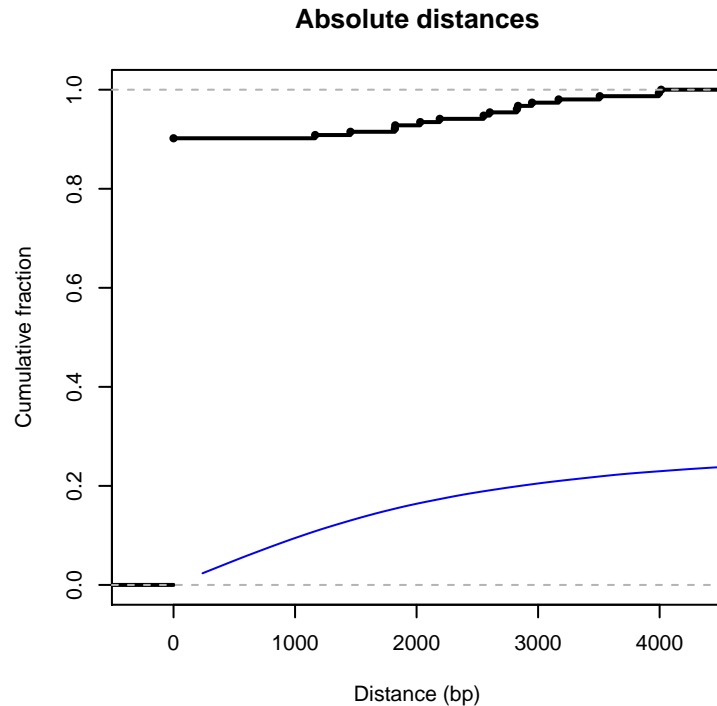
pcontig_039

Query population : 139
Reference population : 135
Relative Ks p-value : 0
Relative ecdf deviation area : 0.209355
Relative ecdf area correlation : 0.836756
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.89426



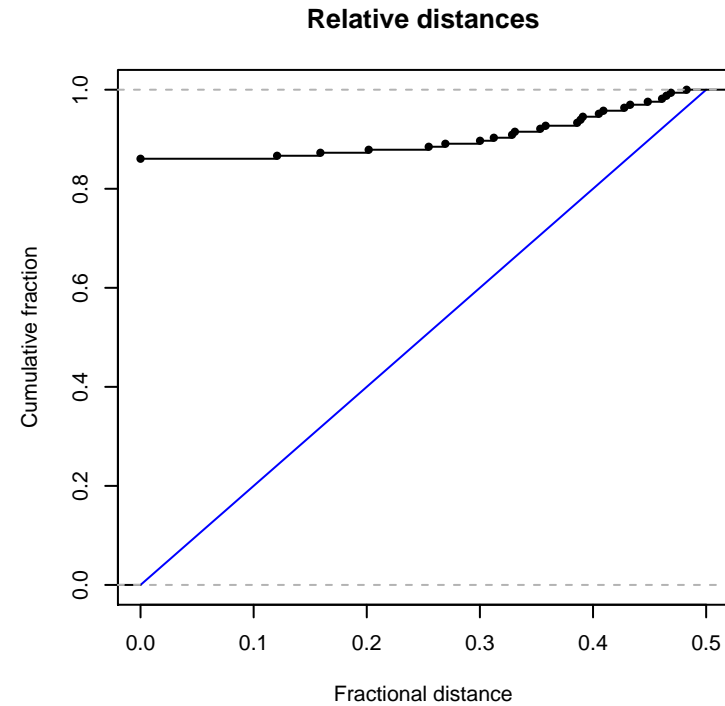
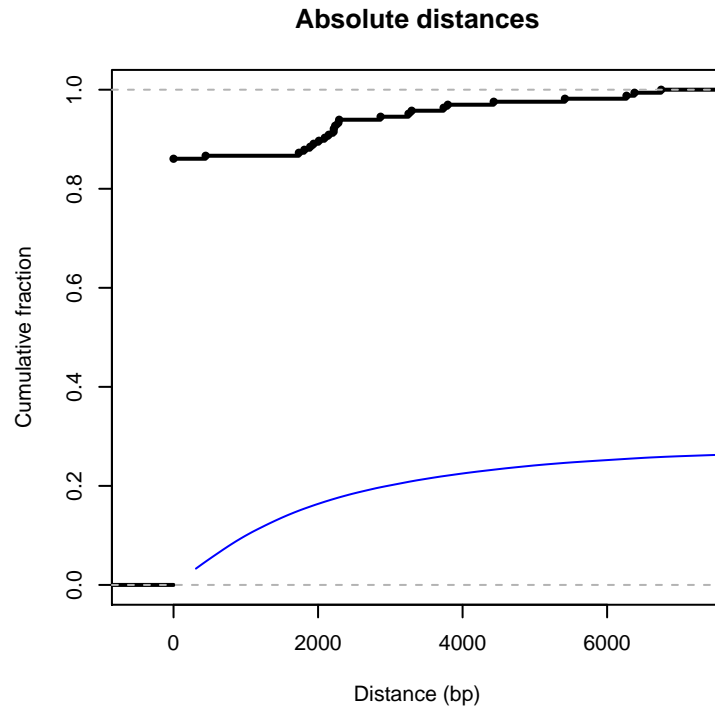
pcontig_040

Query population : 153
Reference population : 151
Relative Ks p-value : 0
Relative ecdf deviation area : 0.217881
Relative ecdf area correlation : 0.871675
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.0603



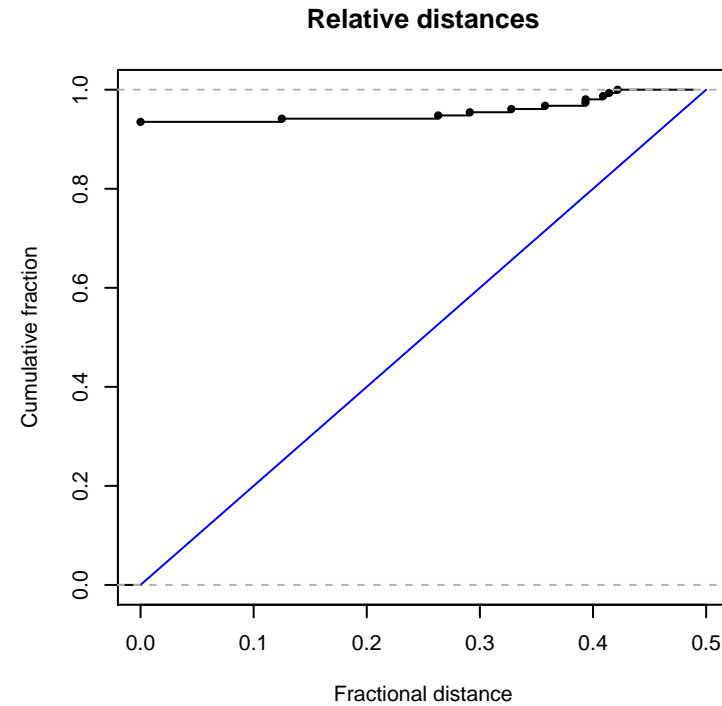
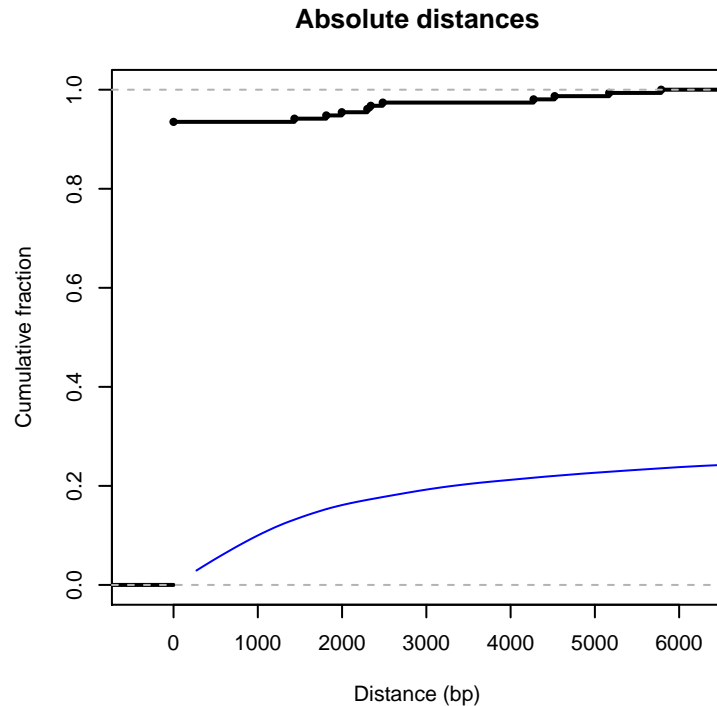
pcontig_041

Query population : 165
Reference population : 163
Relative Ks p-value : 0
Relative ecdf deviation area : 0.200597
Relative ecdf area correlation : 0.802287
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.4769



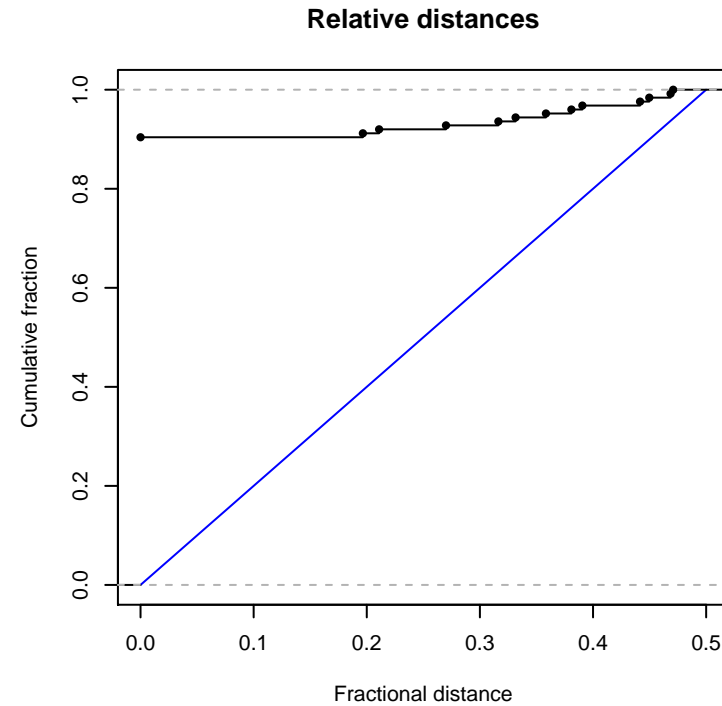
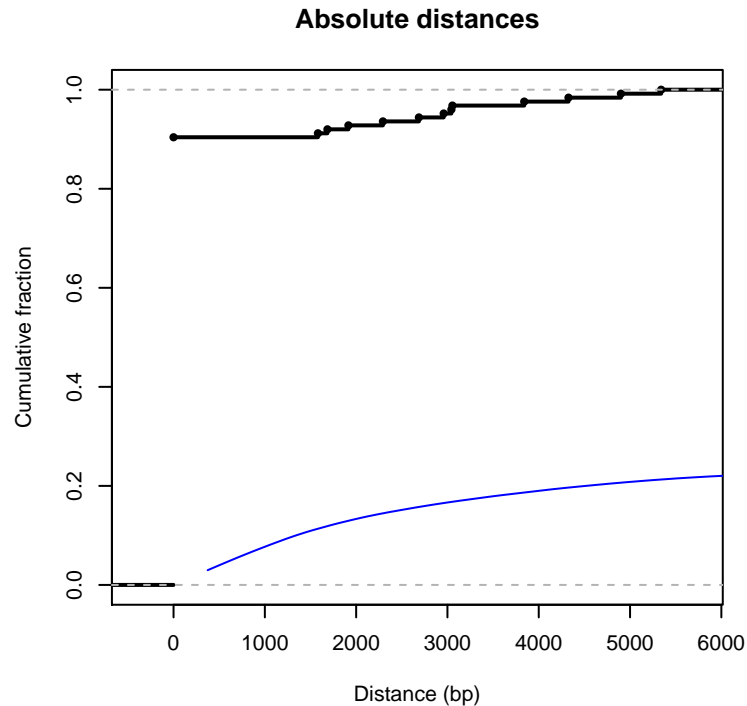
pcontig_042

Query population : 154
Reference population : 164
Relative Ks p-value : 0
Relative ecdf deviation area : 0.227972
Relative ecdf area correlation : 0.911796
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.6759



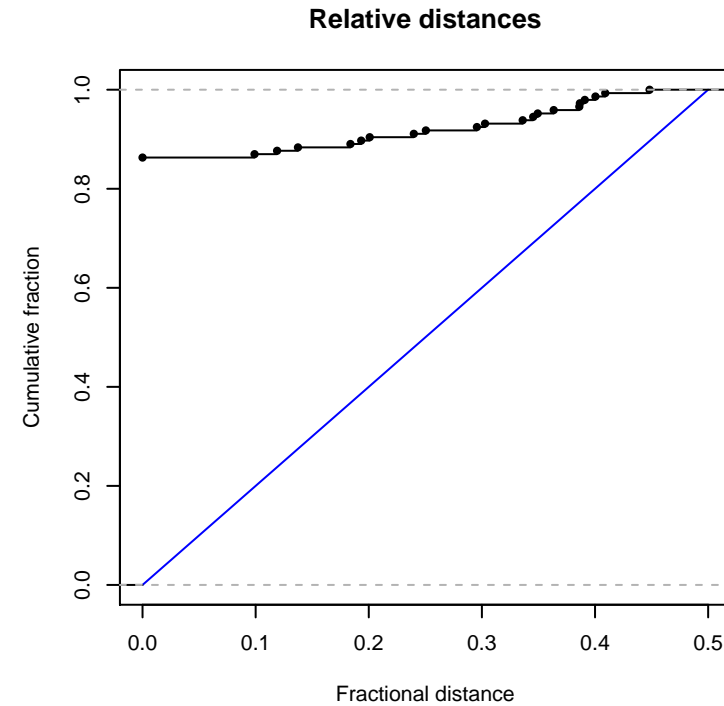
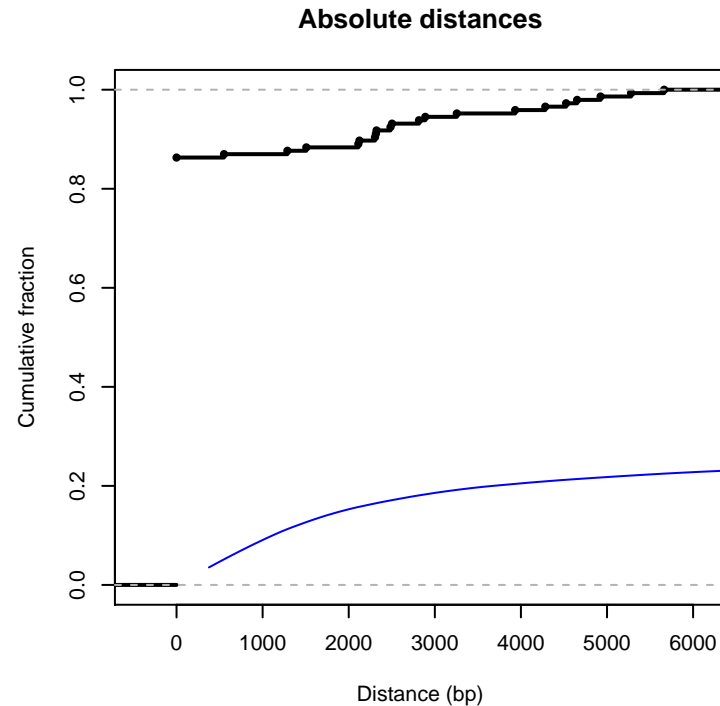
pcontig_043

Query population : 125
Reference population : 122
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215844
Relative ecdf area correlation : 0.862849
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.4318



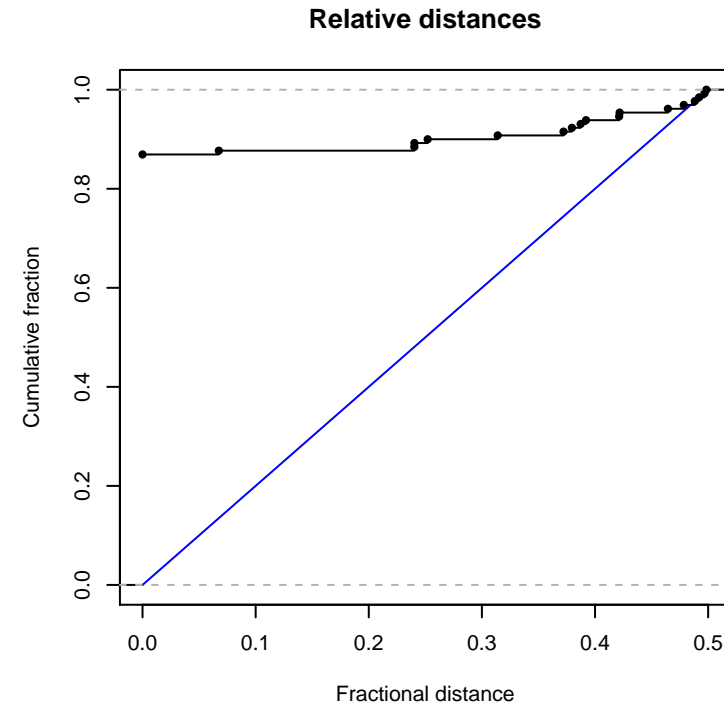
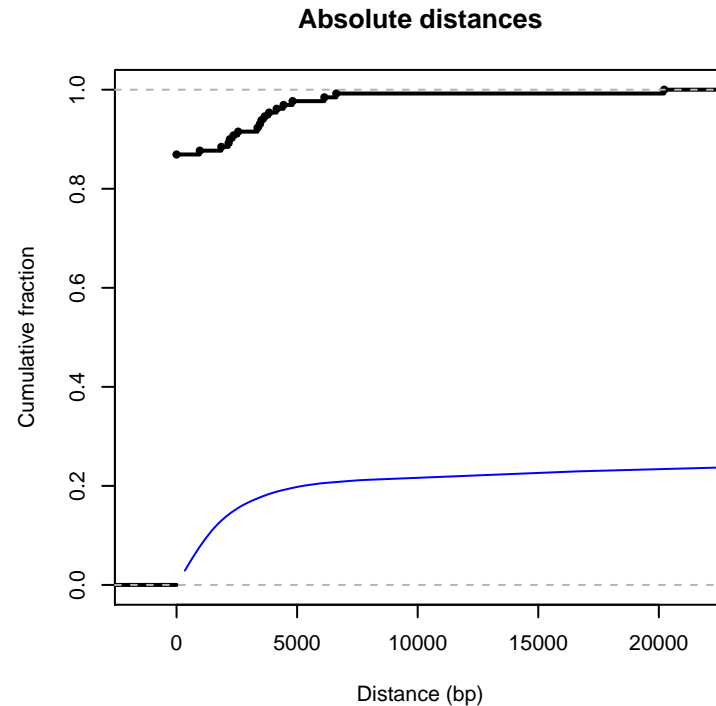
pcontig_044

Query population : 146
Reference population : 144
Relative Ks p-value : 0
Relative ecdf deviation area : 0.21022
Relative ecdf area correlation : 0.840072
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.0304



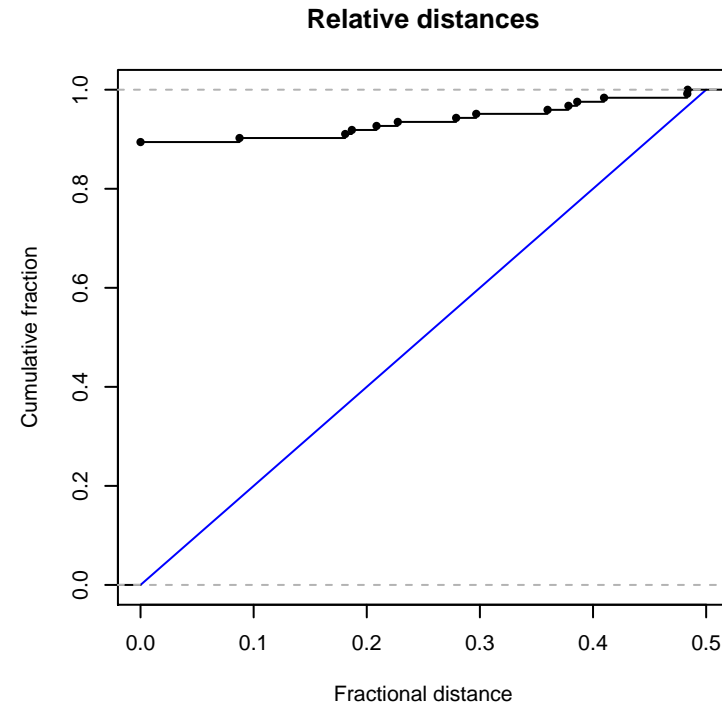
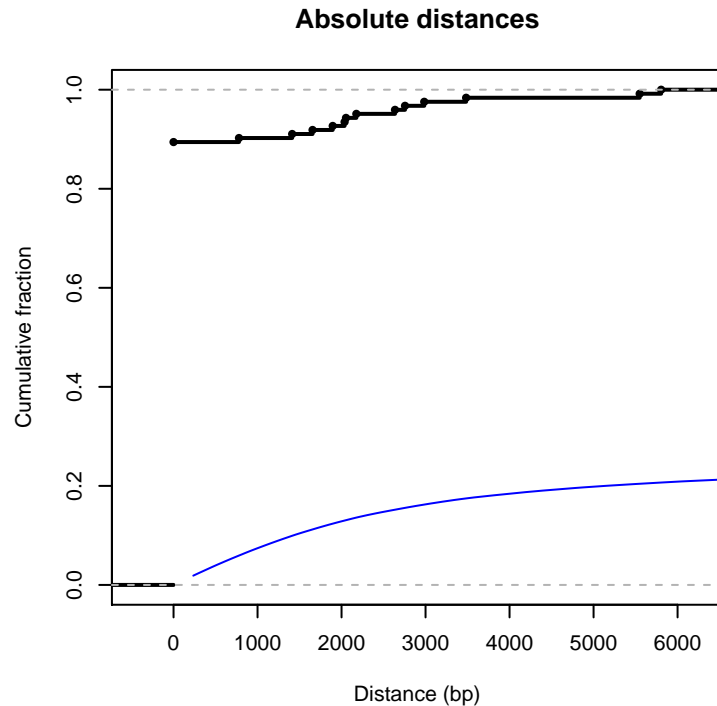
pcontig_045

Query population : 130
Reference population : 128
Relative Ks p-value : 0
Relative ecdf deviation area : 0.200953
Relative ecdf area correlation : 0.802879
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.2262



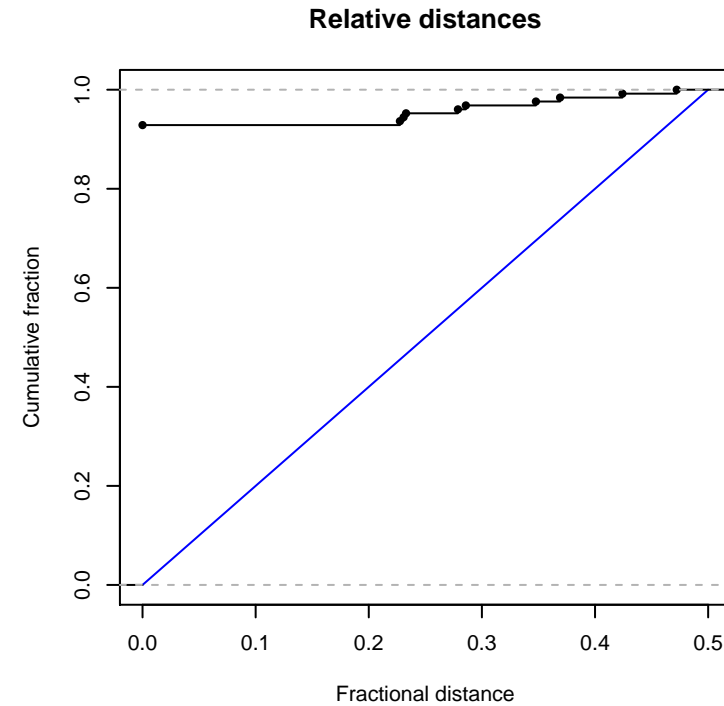
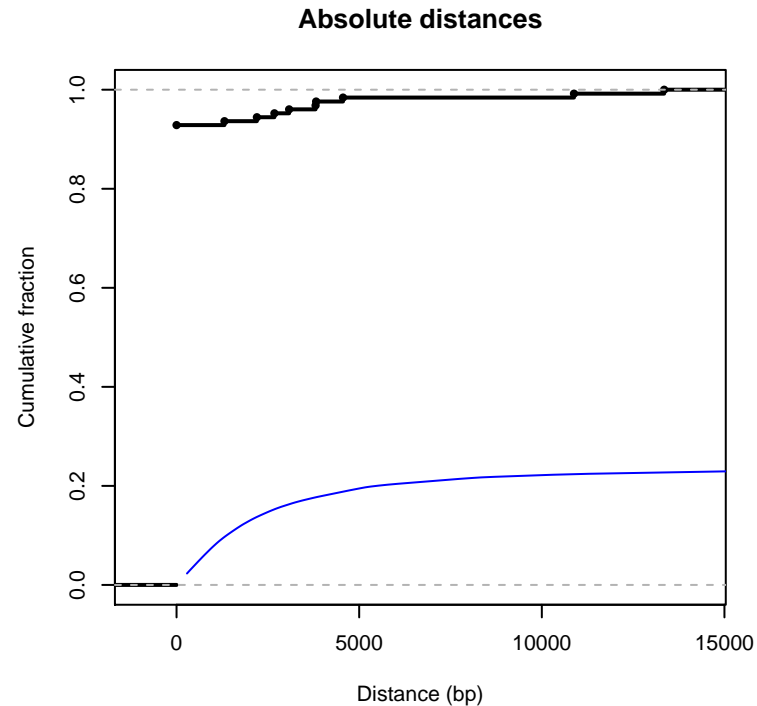
pcontig_046

Query population : 123
Reference population : 122
Relative Ks p-value : 0
Relative ecdf deviation area : 0.217548
Relative ecdf area correlation : 0.87096
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 15.2437



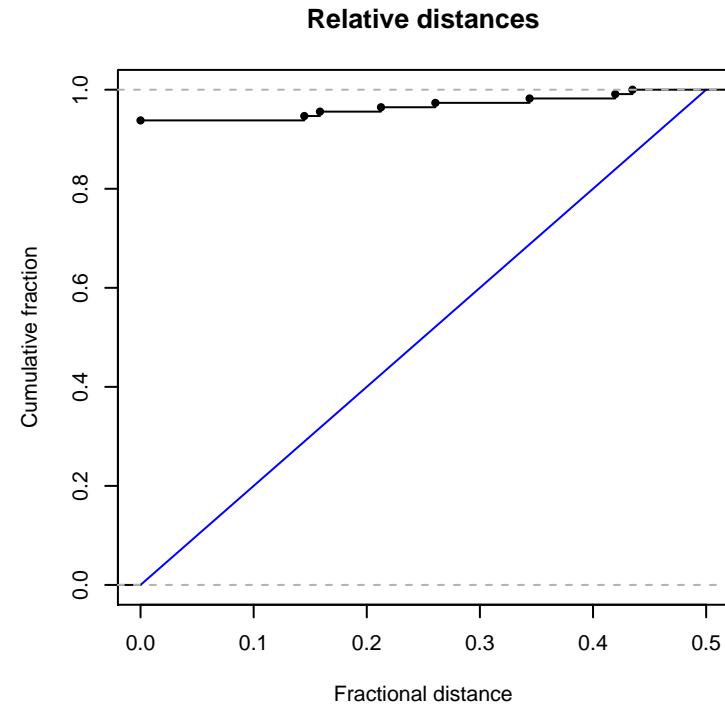
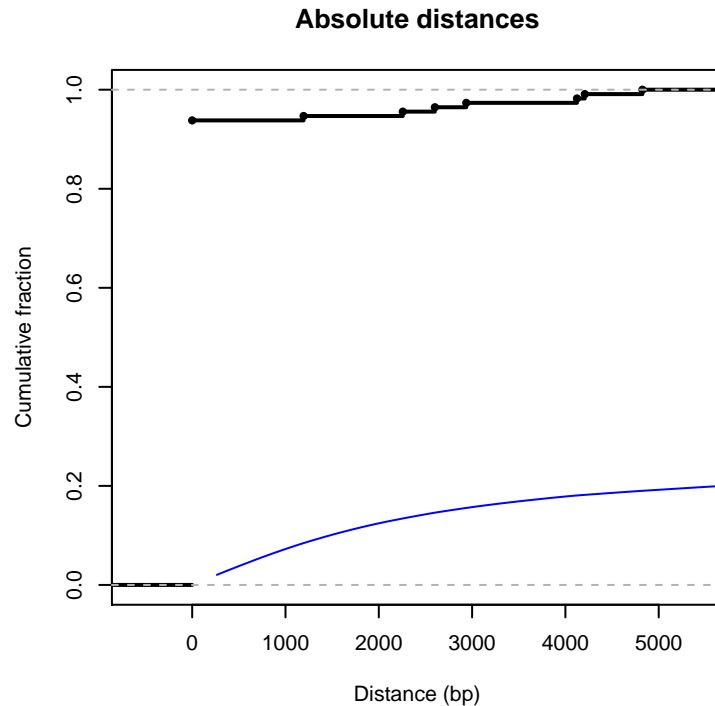
pcontig_047

Query population : 126
Reference population : 124
Relative Ks p-value : 0
Relative ecdf deviation area : 0.22717
Relative ecdf area correlation : 0.908914
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 13.007



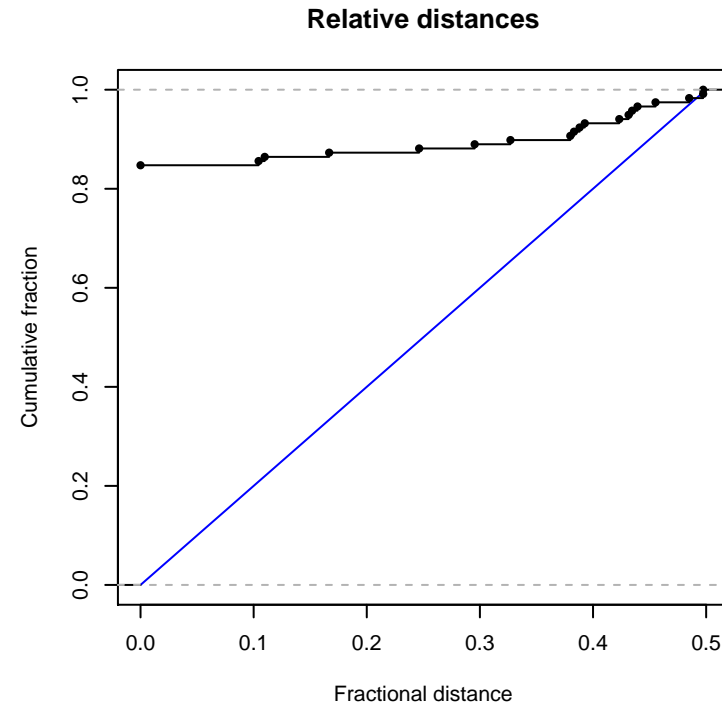
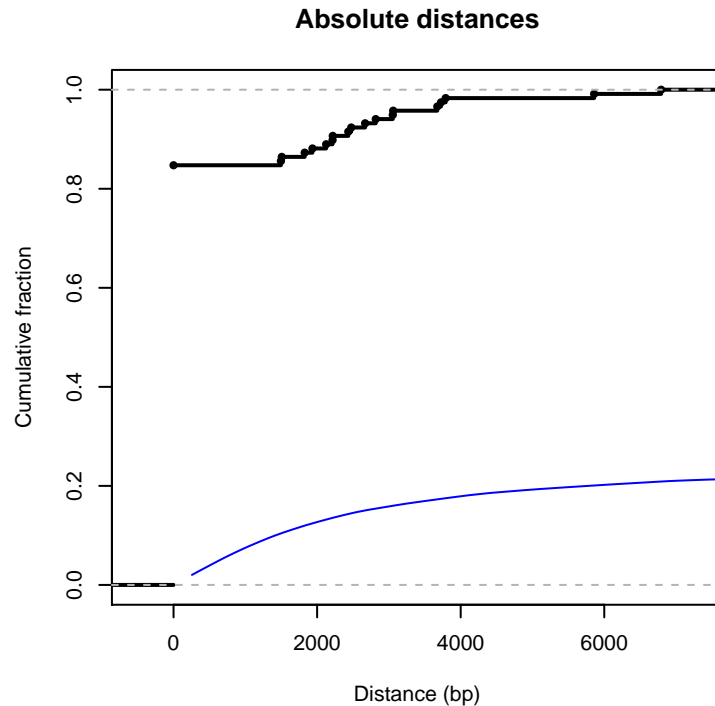
pcontig_048

Query population : 113
Reference population : 118
Relative Ks p-value : 0
Relative ecdf deviation area : 0.232482
Relative ecdf area correlation : 0.930086
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 16.1266



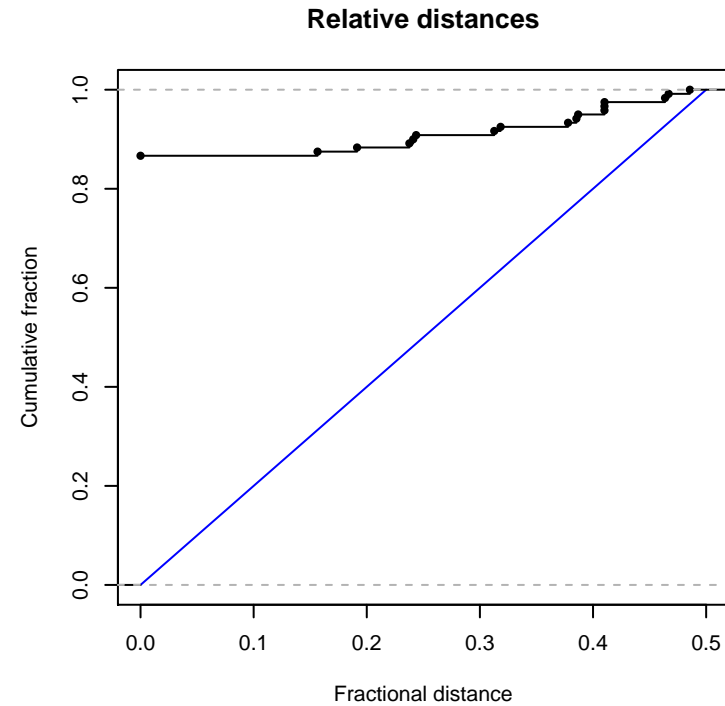
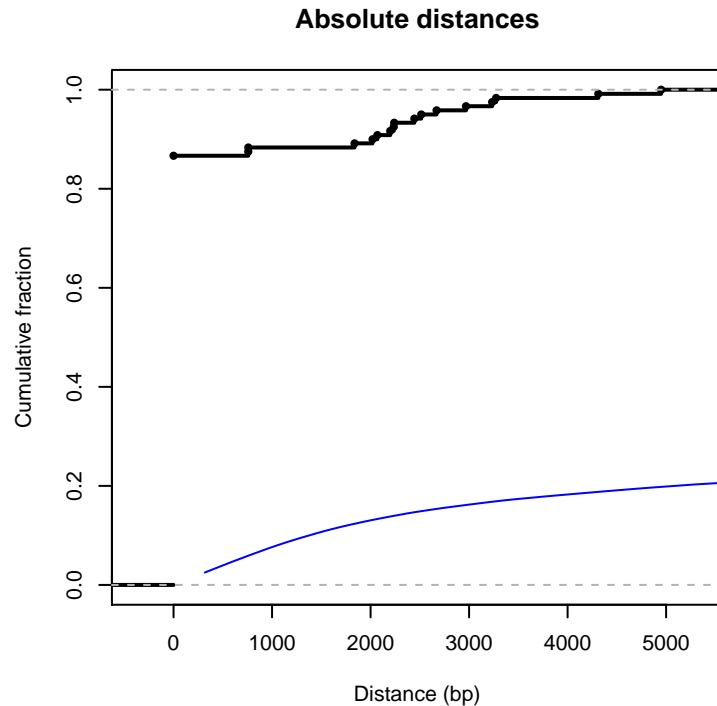
pcontig_049

Query population : 118
Reference population : 121
Relative Ks p-value : 0
Relative ecdf deviation area : 0.19542
Relative ecdf area correlation : 0.781116
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.9017



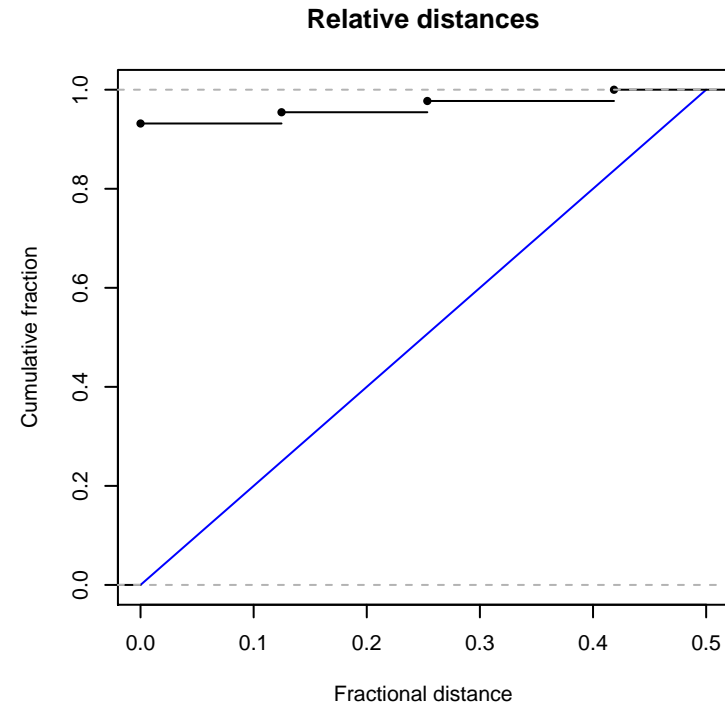
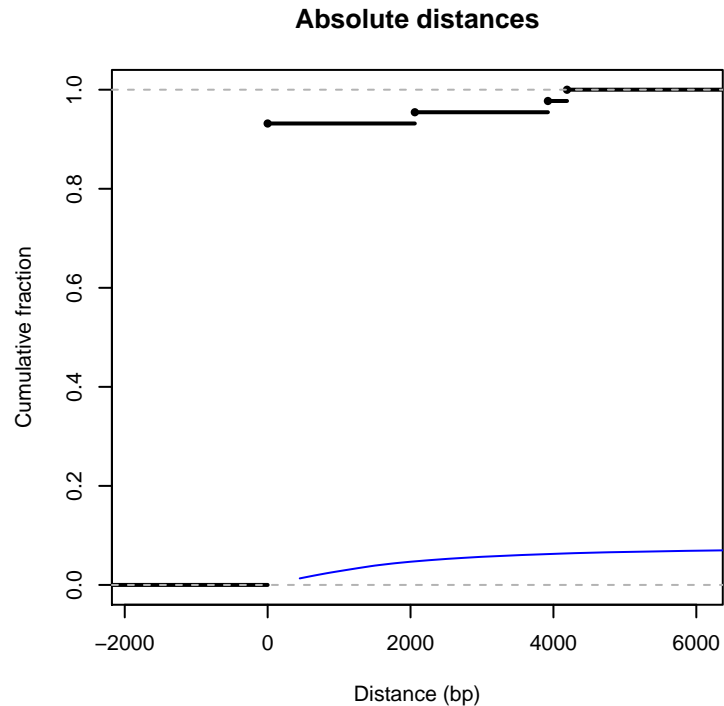
pcontig_050

Query population : 120
Reference population : 121
Relative Ks p-value : 0
Relative ecdf deviation area : 0.204352
Relative ecdf area correlation : 0.816735
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 13.0675



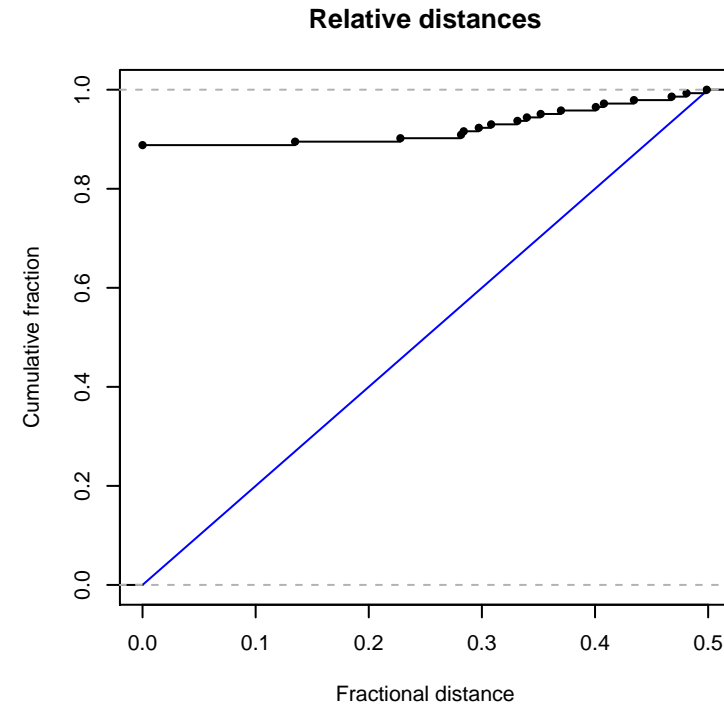
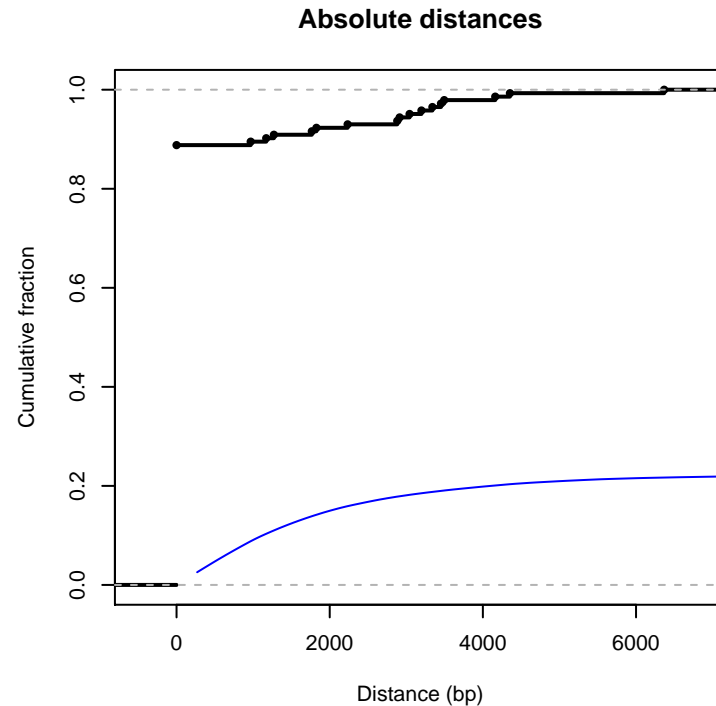
pcontig_051

Query population : 44
Reference population : 45
Relative Ks p-value : 0
Relative ecdf deviation area : 0.231939
Relative ecdf area correlation : 0.927574
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 44.0262



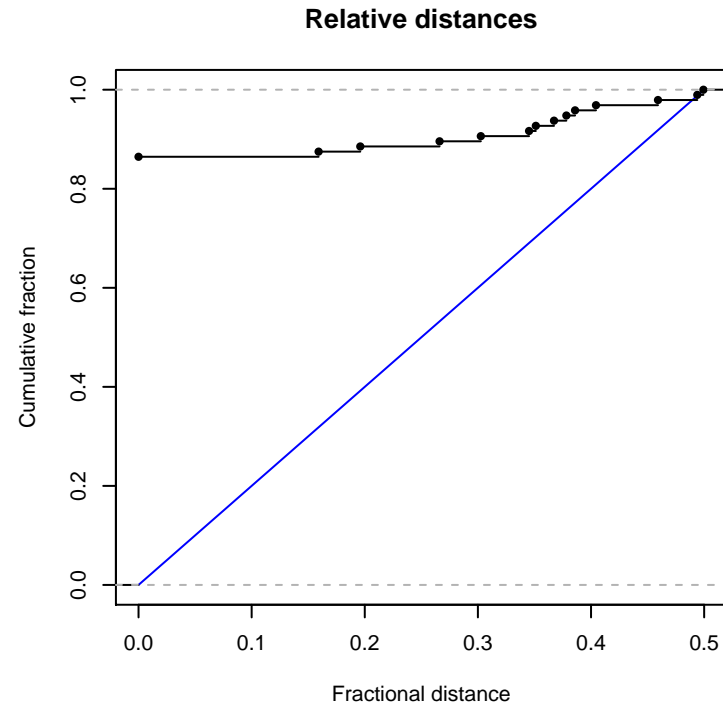
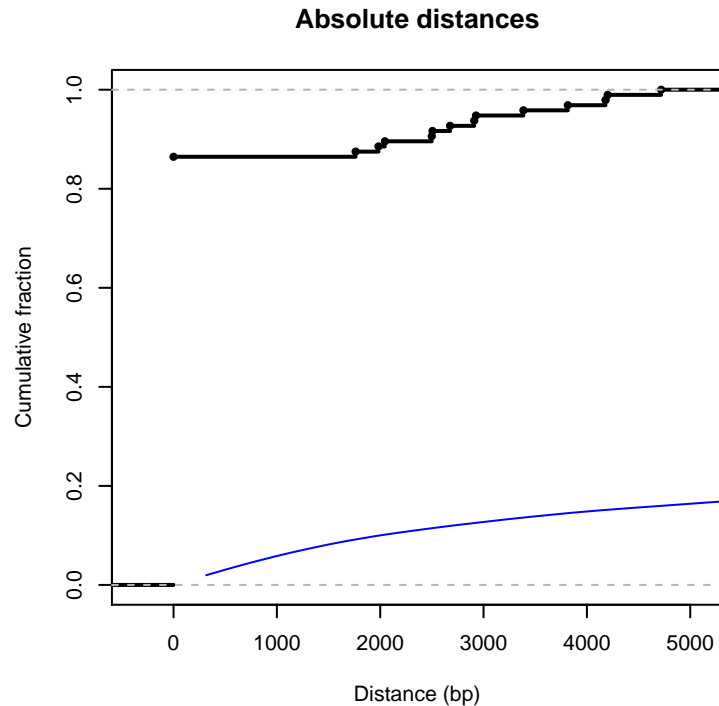
pcontig_052

Query population : 143
Reference population : 146
Relative Ks p-value : 0
Relative ecdf deviation area : 0.210722
Relative ecdf area correlation : 0.842877
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.2597



pcontig_054

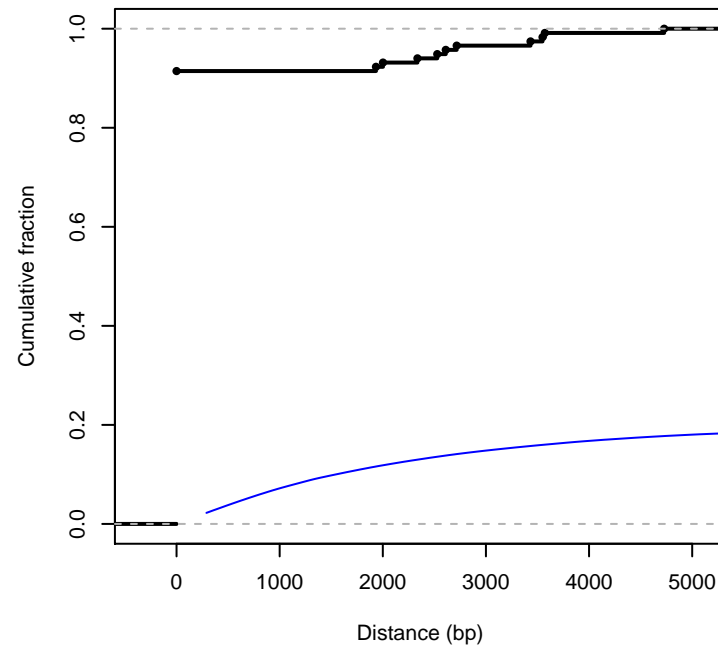
Query population : 96
Reference population : 95
Relative Ks p-value : 1.33227e-15
Relative ecdf deviation area : 0.202082
Relative ecdf area correlation : 0.807974
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 18.3908



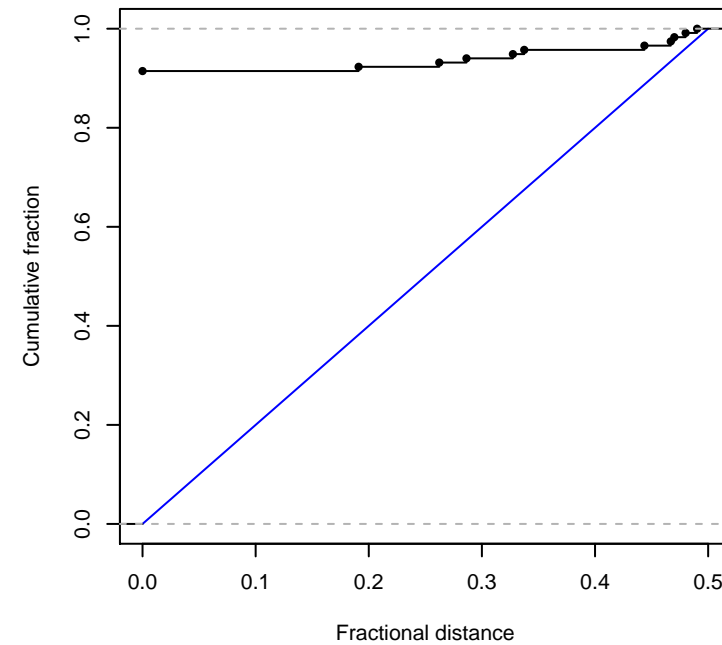
pcontig_055

Query population : 117
Reference population : 118
Relative Ks p-value : 0
Relative ecdf deviation area : 0.217883
Relative ecdf area correlation : 0.871603
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.37

Absolute distances

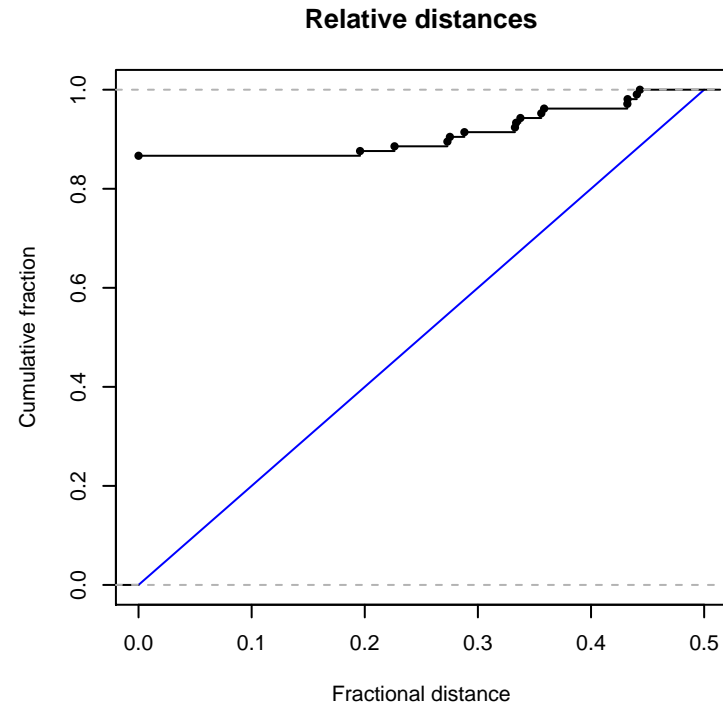
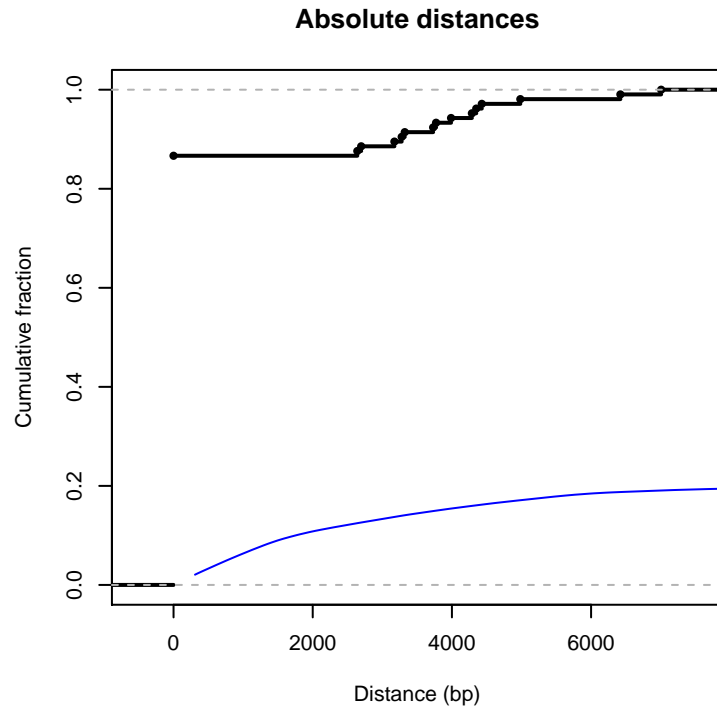


Relative distances



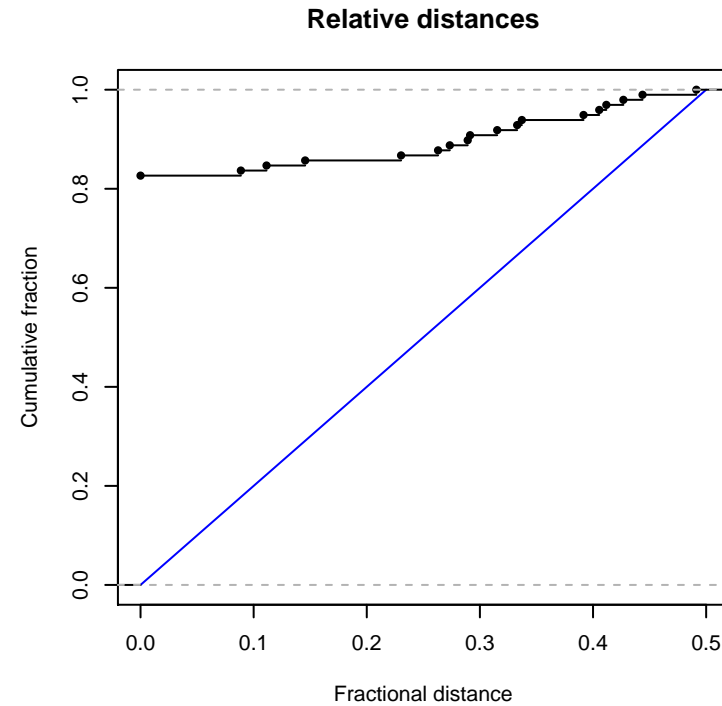
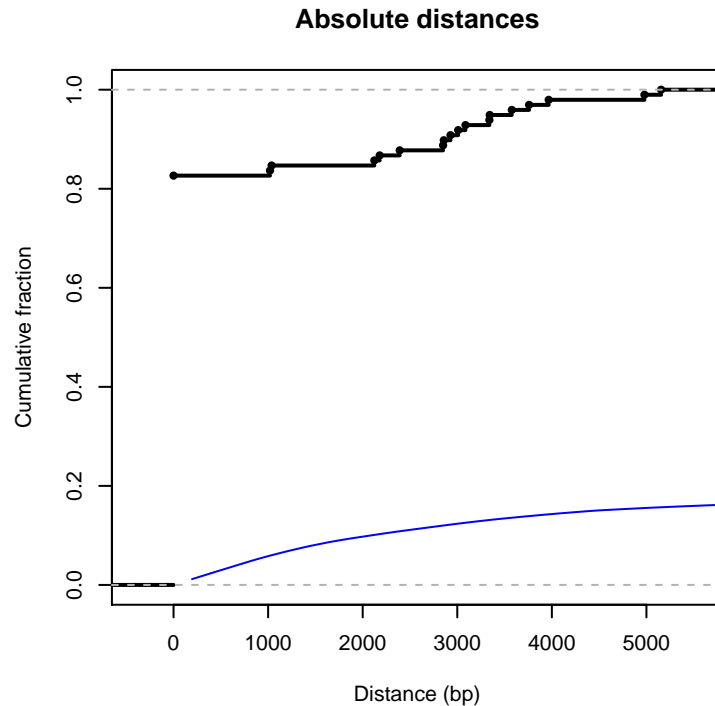
pcontig_056

Query population : 105
Reference population : 103
Relative Ks p-value : 0
Relative ecdf deviation area : 0.204944
Relative ecdf area correlation : 0.819986
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.5692



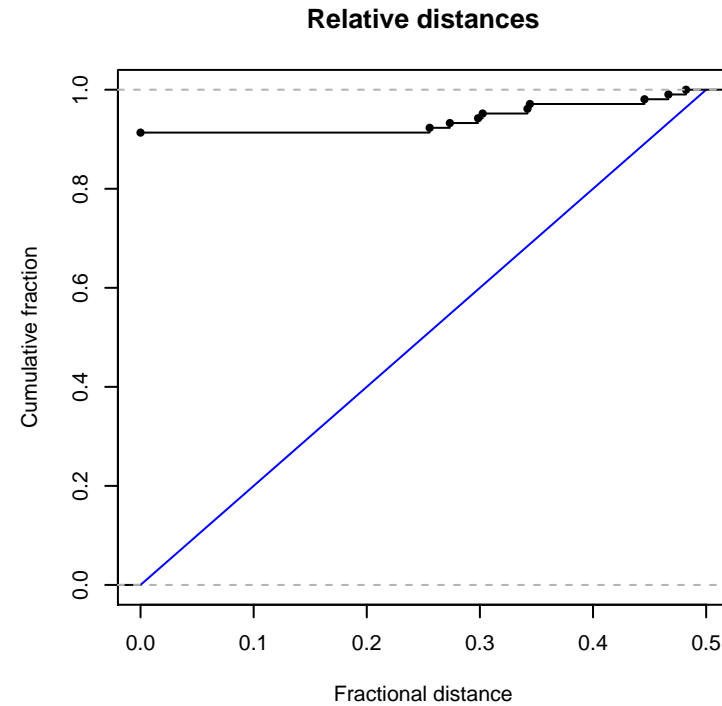
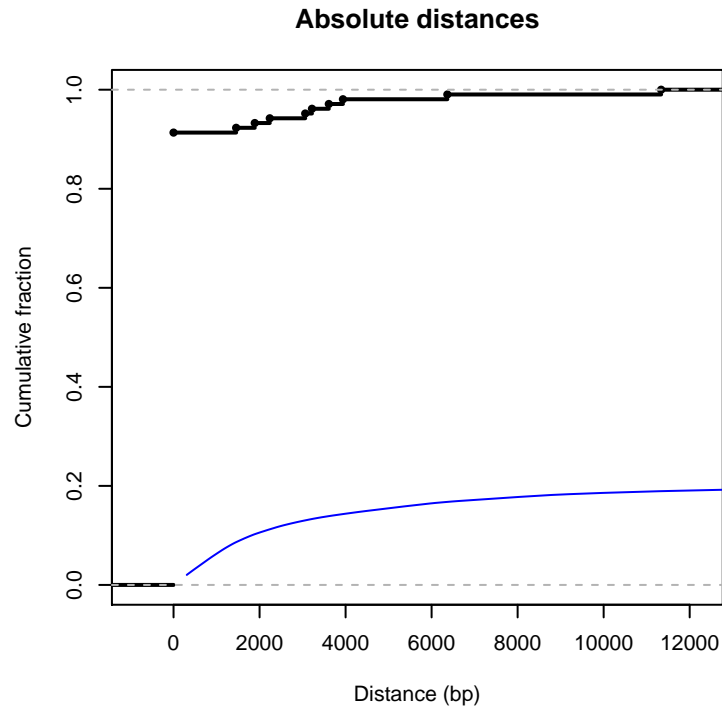
pcontig_057

Query population : 98
Reference population : 92
Relative Ks p-value : 4.44089e-16
Relative ecdf deviation area : 0.195725
Relative ecdf area correlation : 0.78575
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 15.5714



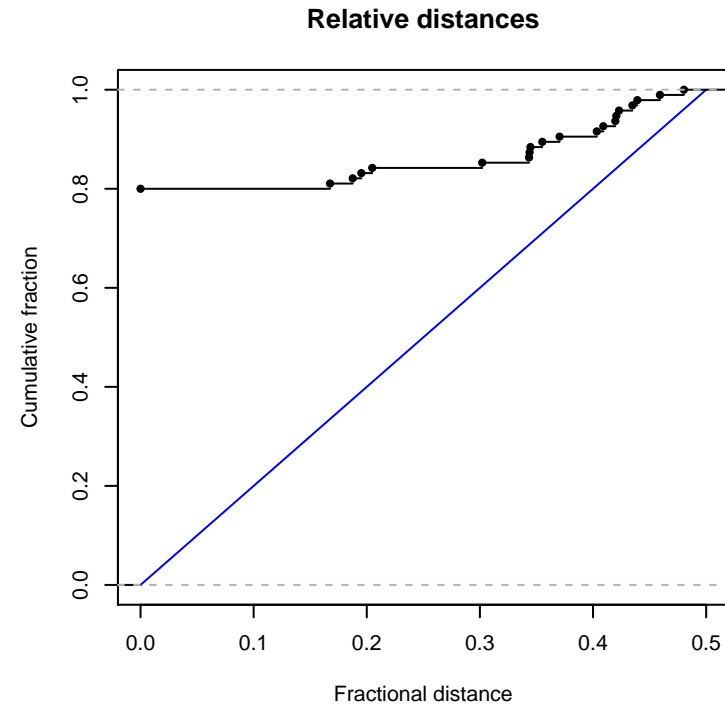
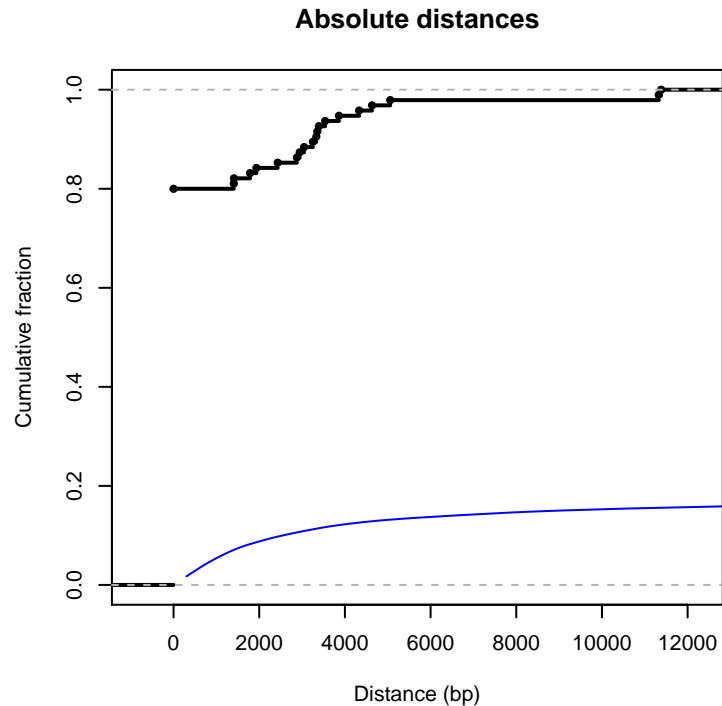
pcontig_058

Query population : 104
Reference population : 101
Relative Ks p-value : 0
Relative ecdf deviation area : 0.2191
Relative ecdf area correlation : 0.876519
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 17.4083



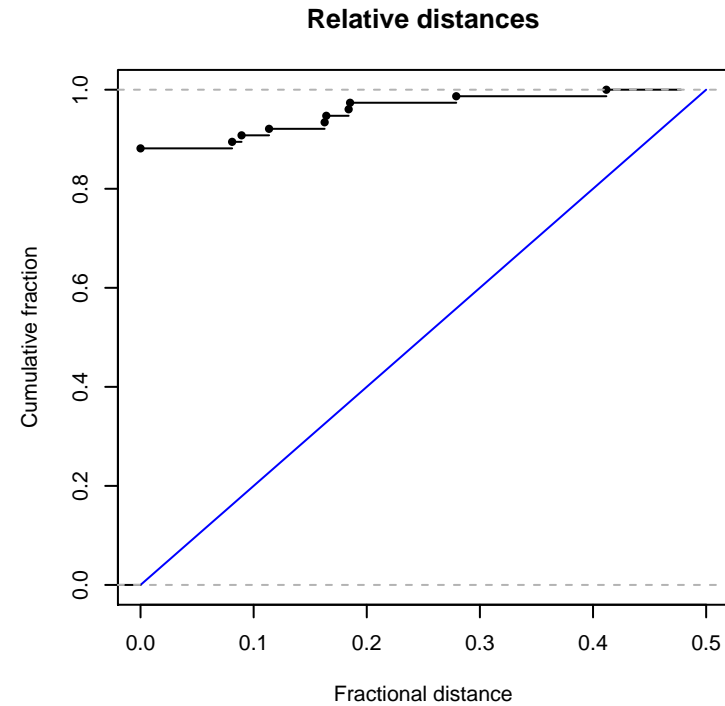
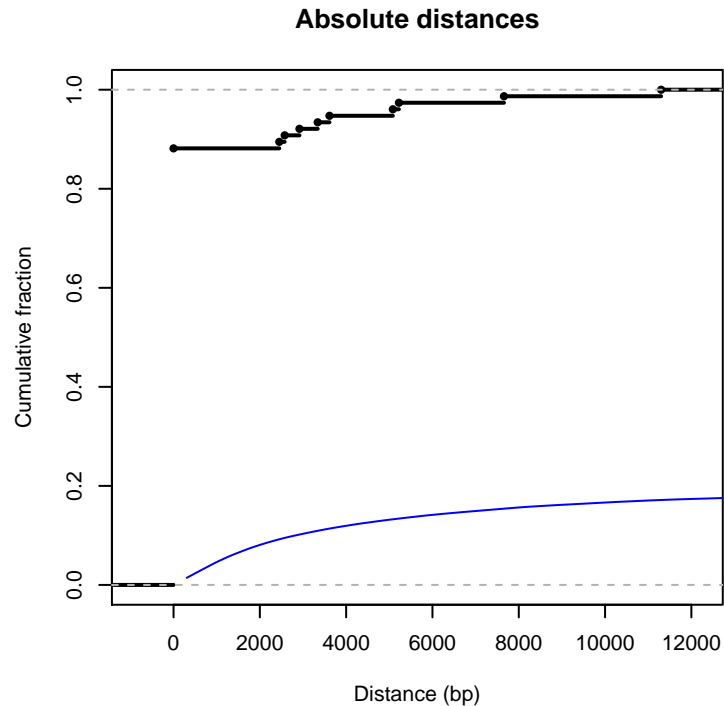
pcontig_059

Query population : 95
Reference population : 88
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.179373
Relative ecdf area correlation : 0.717717
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 15.2789



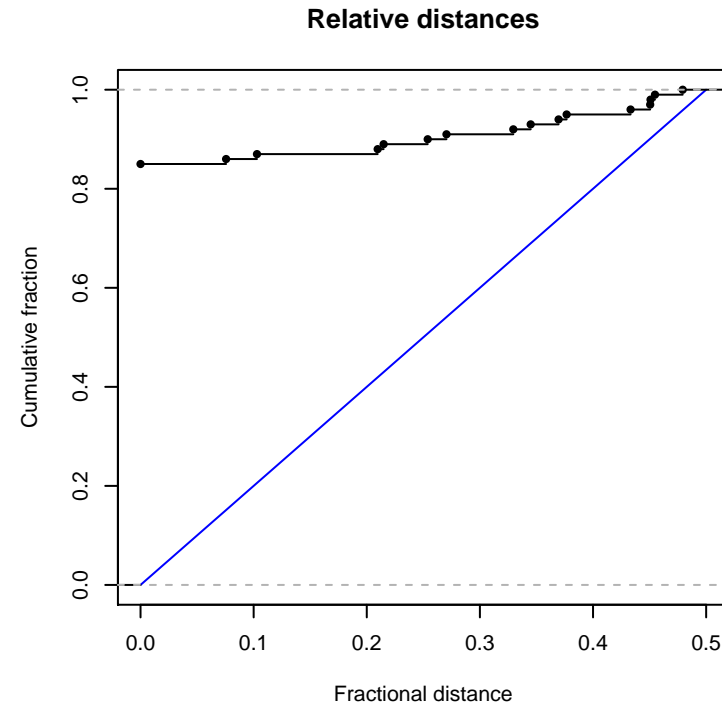
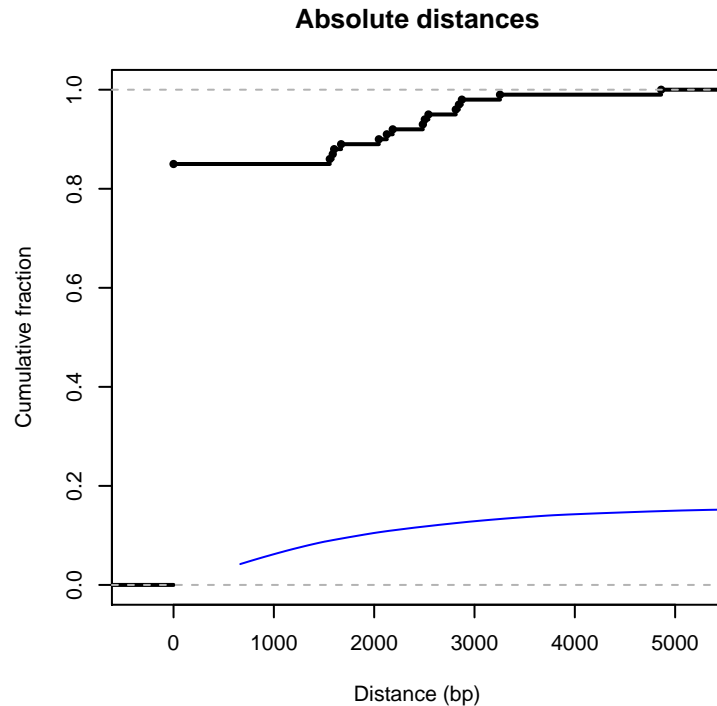
pcontig_060

Query population : 76
Reference population : 72
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.228047
Relative ecdf area correlation : 0.912056
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 18.3506



pcontig_062

Query population : 100
Reference population : 97
Relative Ks p-value : 0
Relative ecdf deviation area : 0.20196
Relative ecdf area correlation : 0.807333
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 15.0676



pcontig_063

Query population : 9
Reference population : 9
Relative Ks p-value : 4.44089e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 336.032

Absolute distances

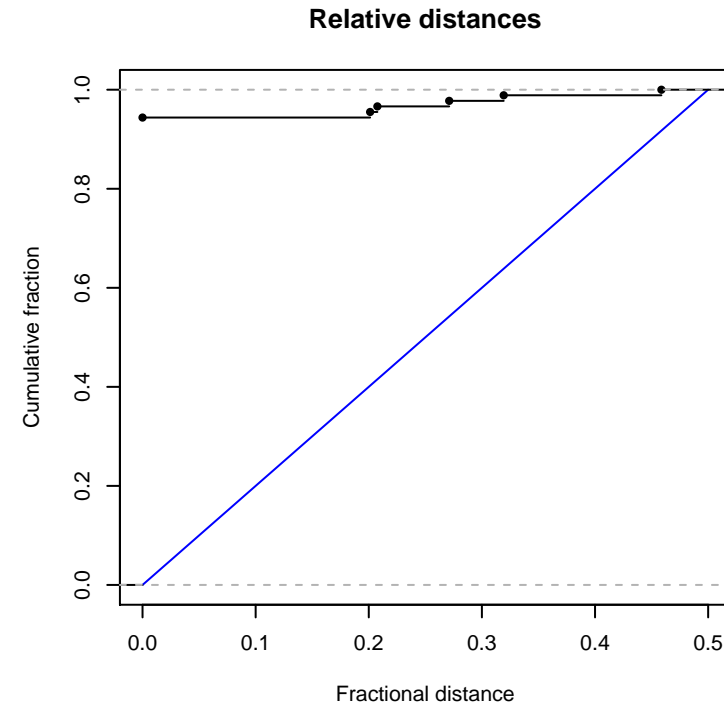
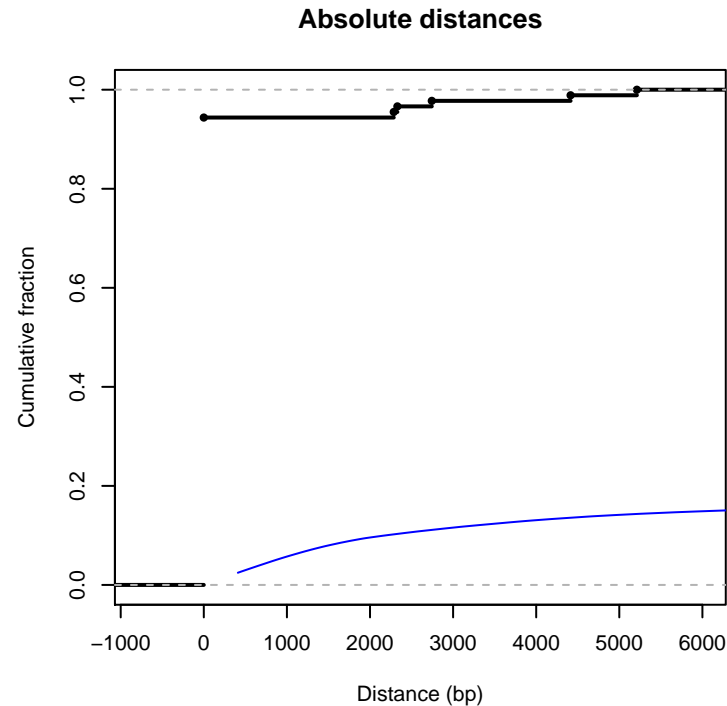


Relative distances



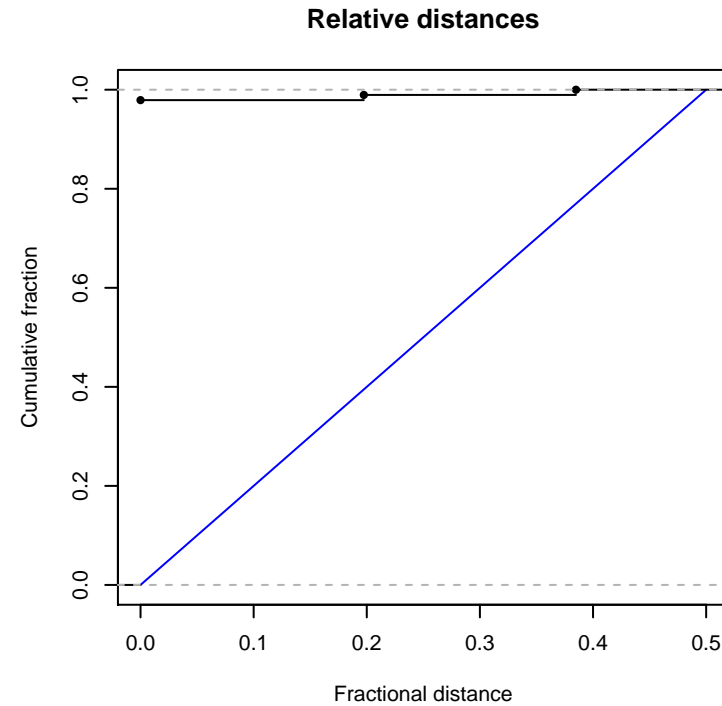
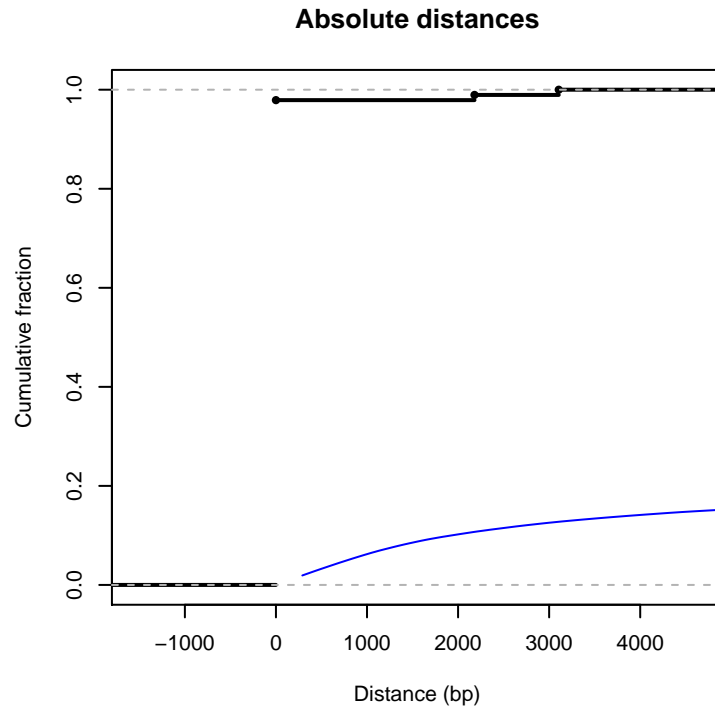
pcontig_064

Query population : 89
Reference population : 92
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.233564
Relative ecdf area correlation : 0.934479
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 20.3715



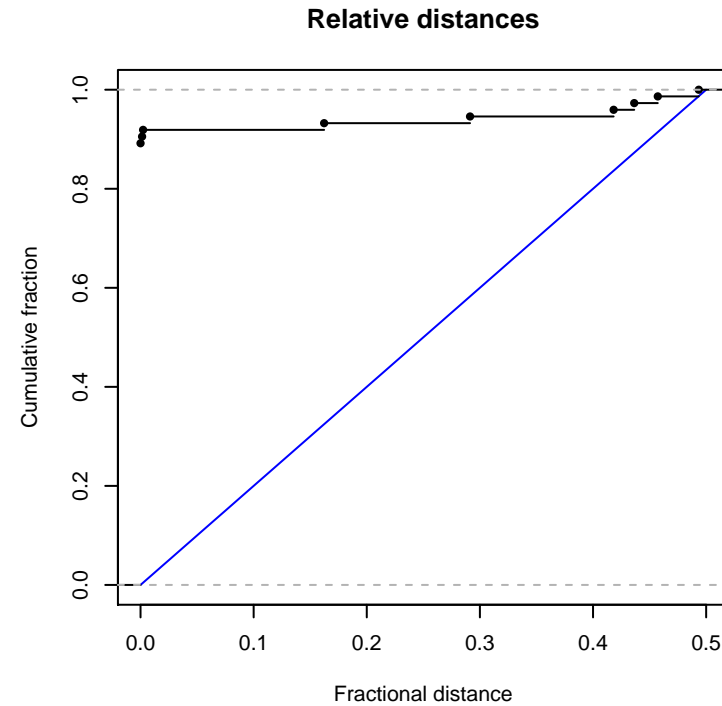
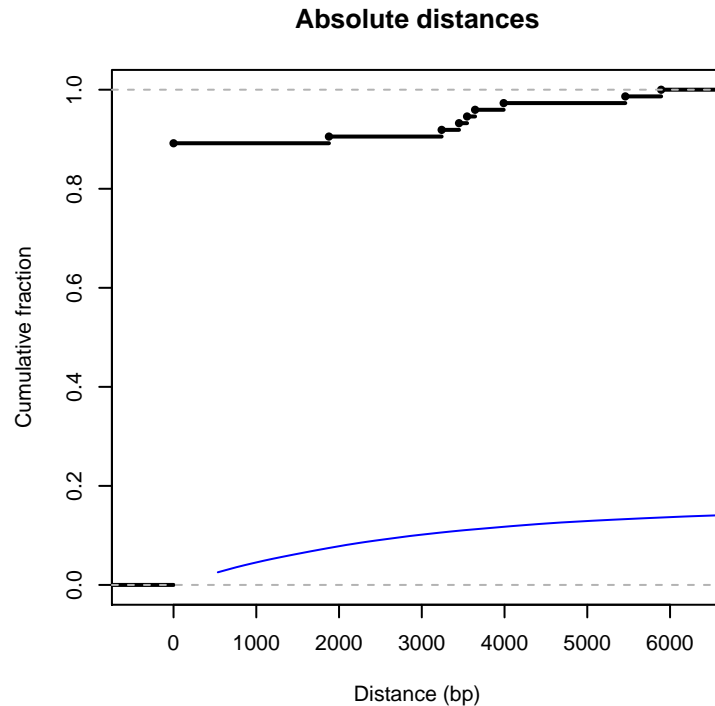
pcontig_065

Query population : 95
Reference population : 101
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.244007
Relative ecdf area correlation : 0.975481
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 18.873



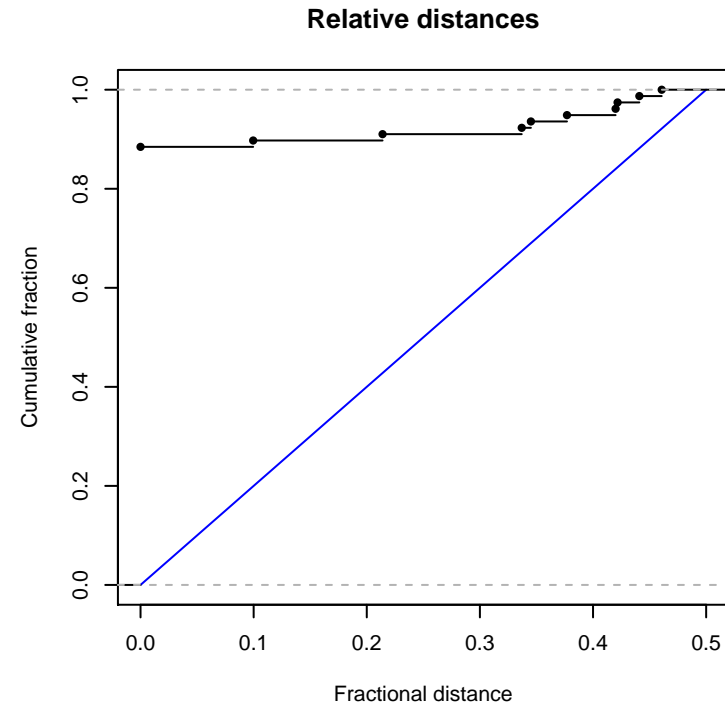
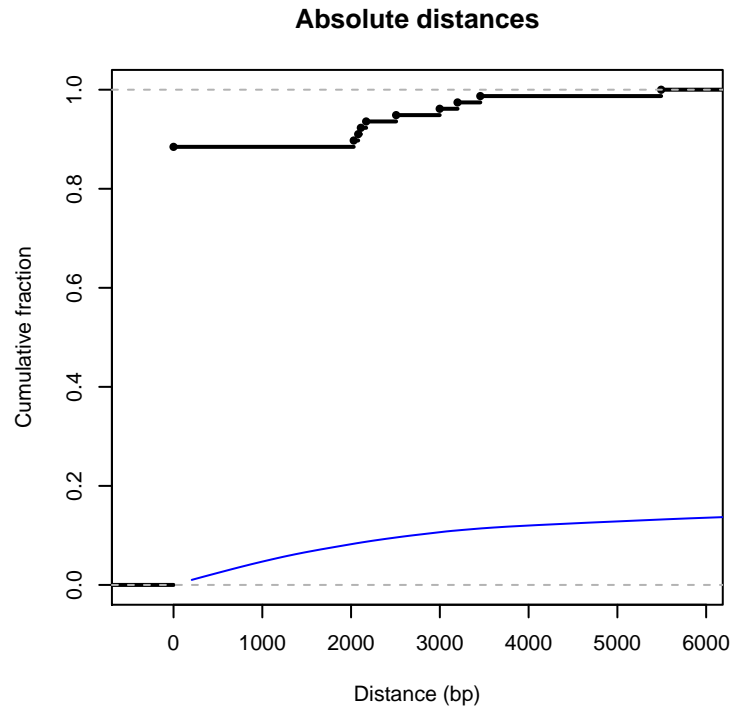
pcontig_066

Query population : 74
Reference population : 73
Relative Ks p-value : 1.33227e-15
Relative ecdf deviation area : 0.219334
Relative ecdf area correlation : 0.877699
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 25.9979



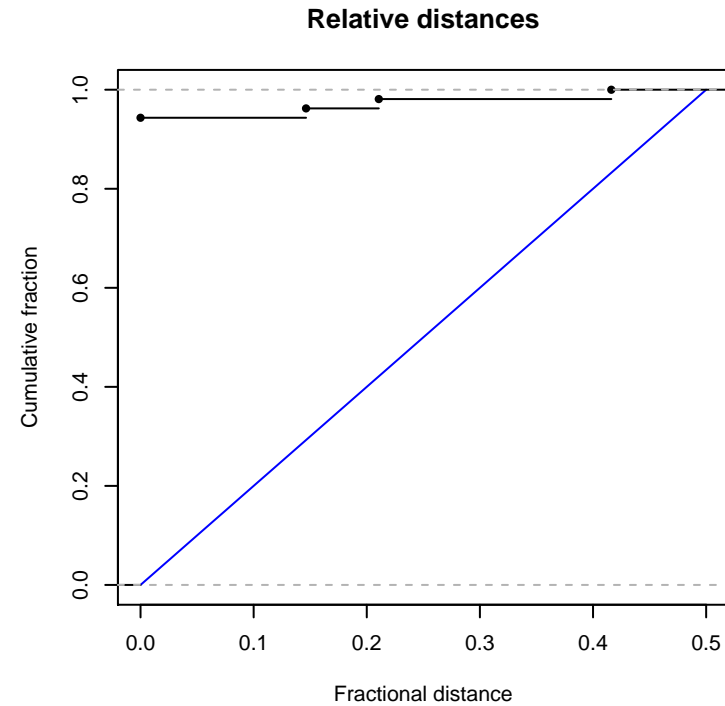
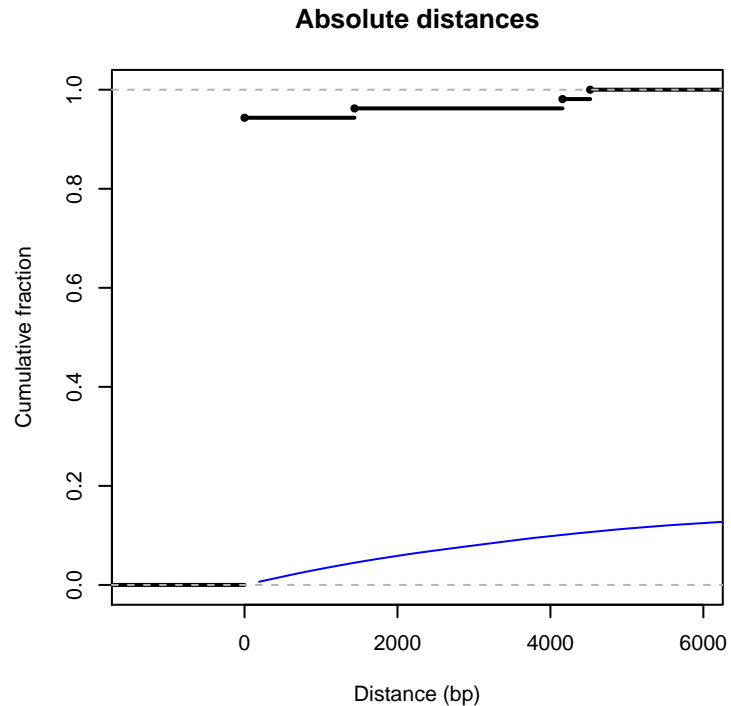
pcontig_067

Query population : 78
Reference population : 76
Relative Ks p-value : 3.33067e-16
Relative ecdf deviation area : 0.209996
Relative ecdf area correlation : 0.840213
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 22.1589



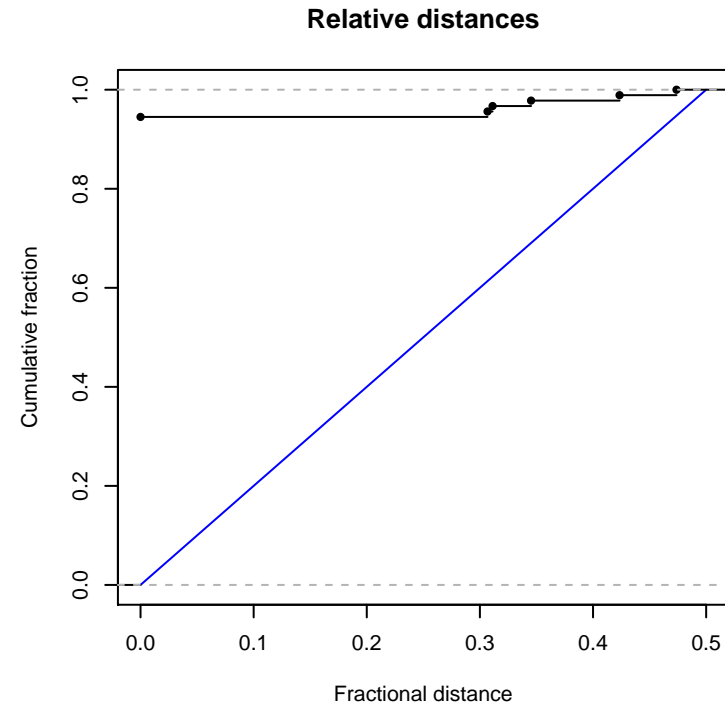
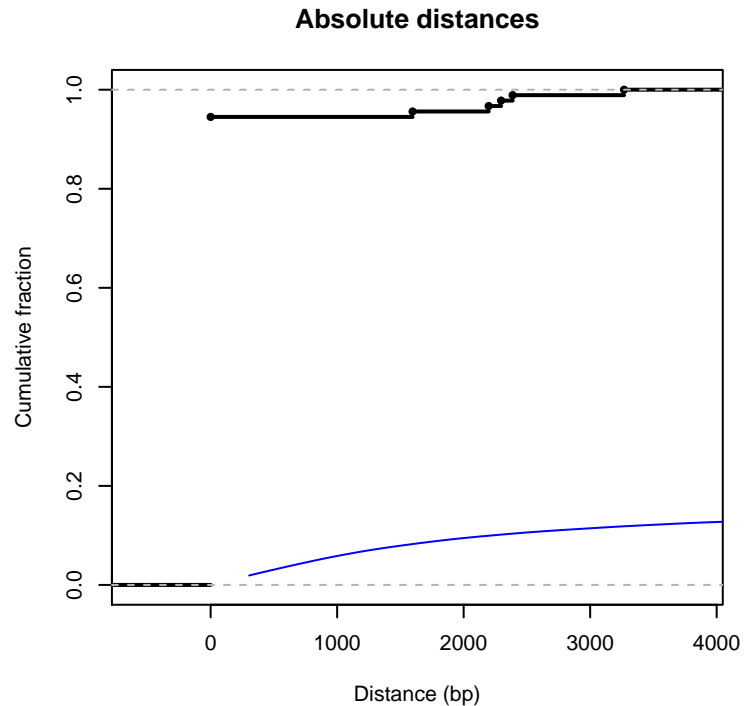
pcontig_068

Query population : 53
Reference population : 52
Relative Ks p-value : 0
Relative ecdf deviation area : 0.235405
Relative ecdf area correlation : 0.941653
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 48.0791



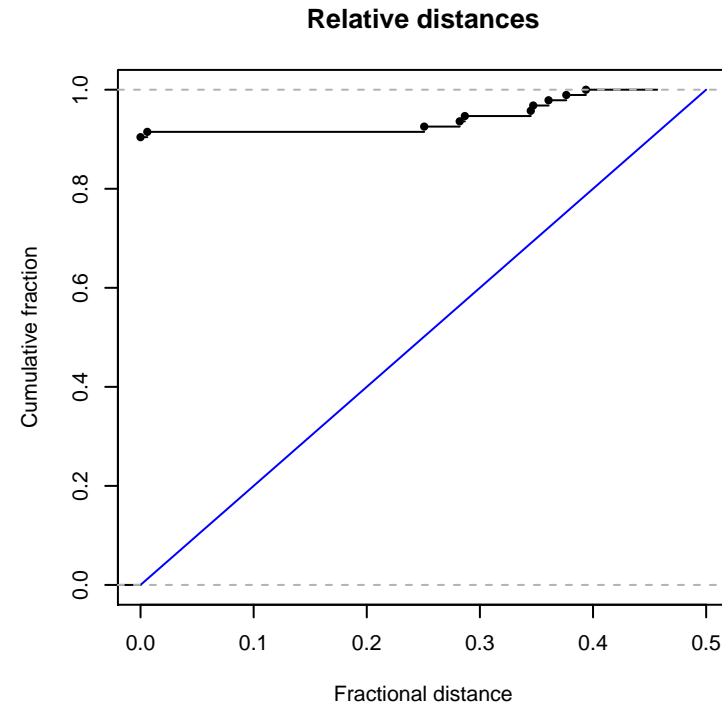
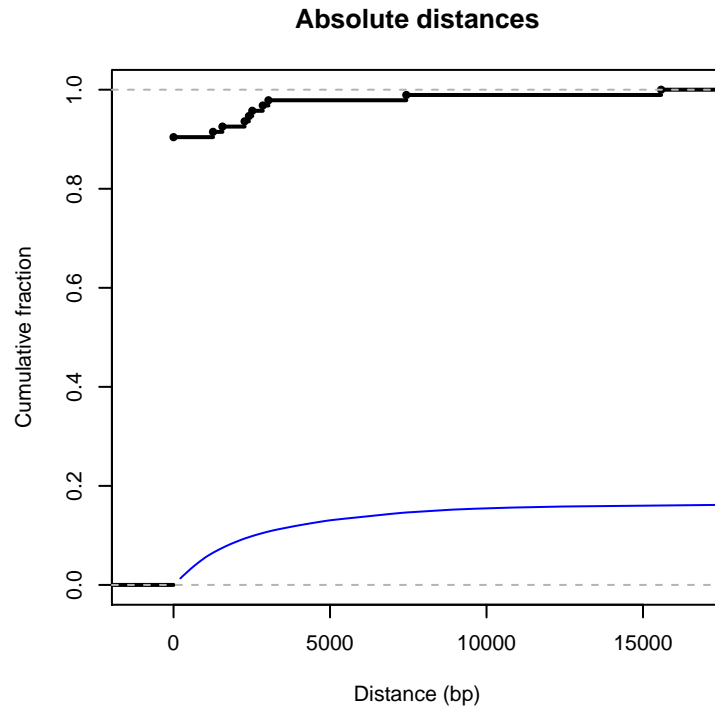
pcontig_069

Query population : 91
Reference population : 96
Relative Ks p-value : 3.33067e-16
Relative ecdf deviation area : 0.229594
Relative ecdf area correlation : 0.918221
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 20.2768



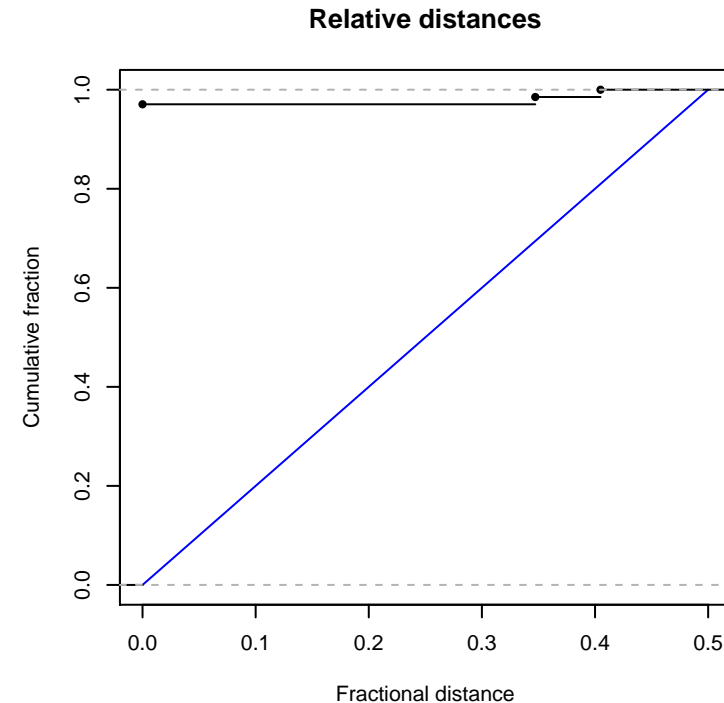
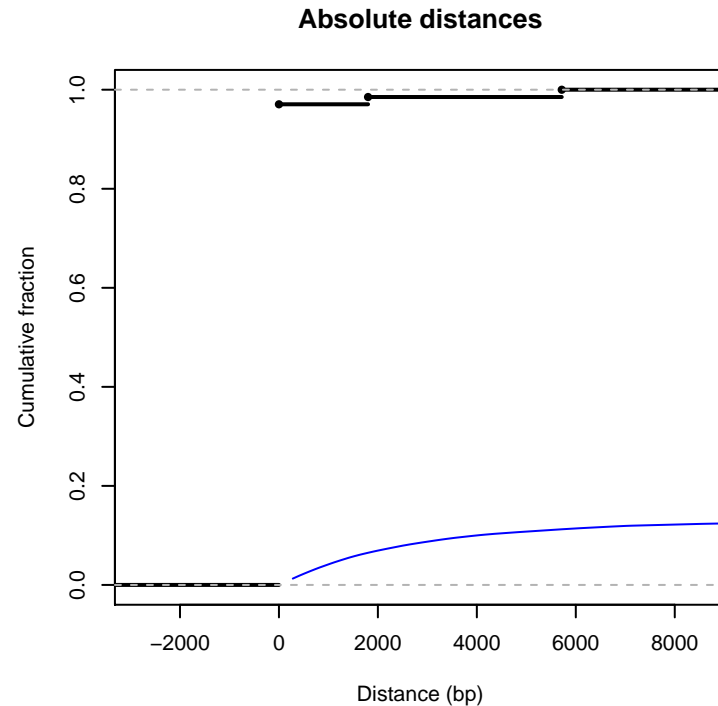
pcontig_070

Query population : 94
Reference population : 93
Relative Ks p-value : 0
Relative ecdf deviation area : 0.221804
Relative ecdf area correlation : 0.887298
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 23.8834



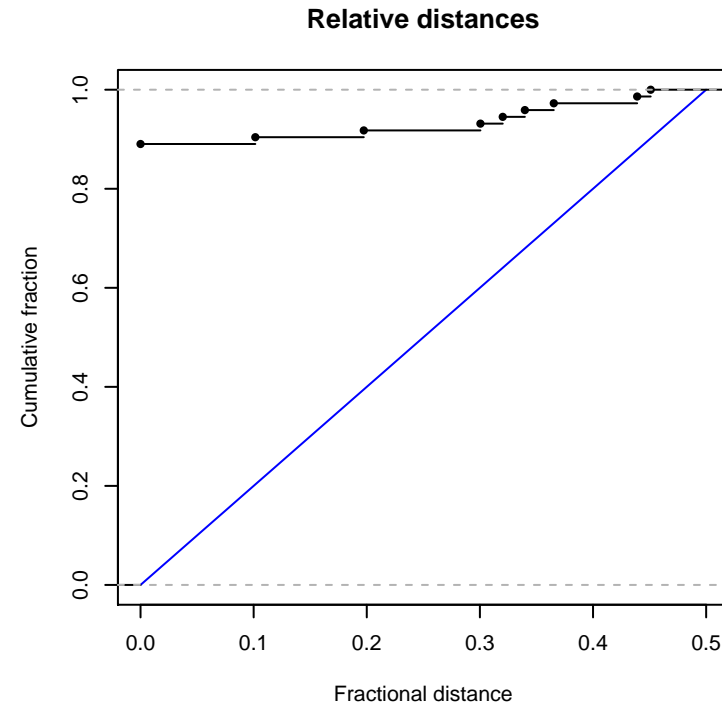
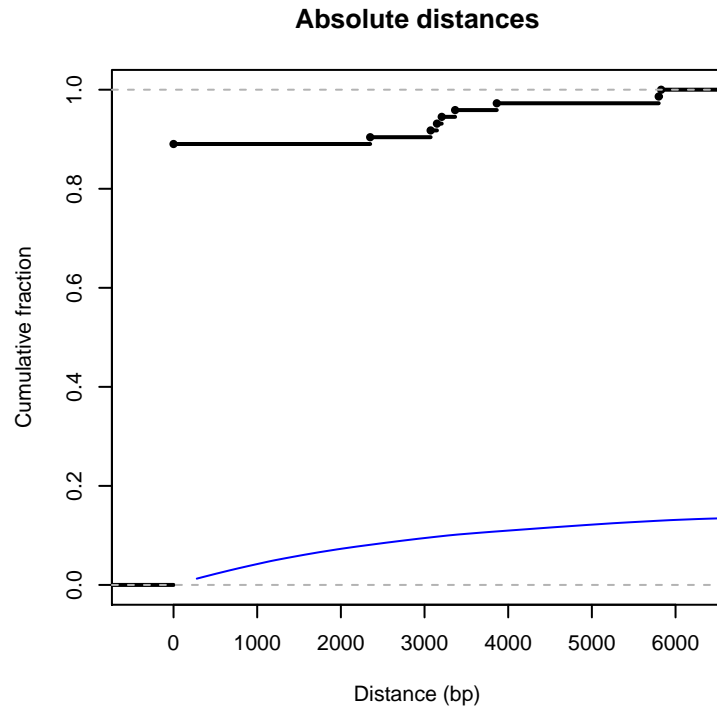
pcontig_072

Query population : 68
Reference population : 70
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.238971
Relative ecdf area correlation : 0.955763
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 29.311



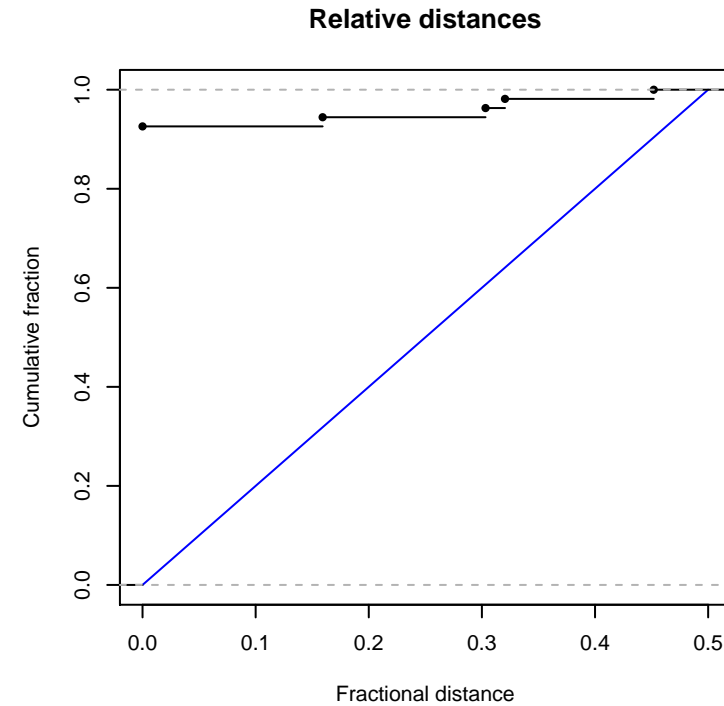
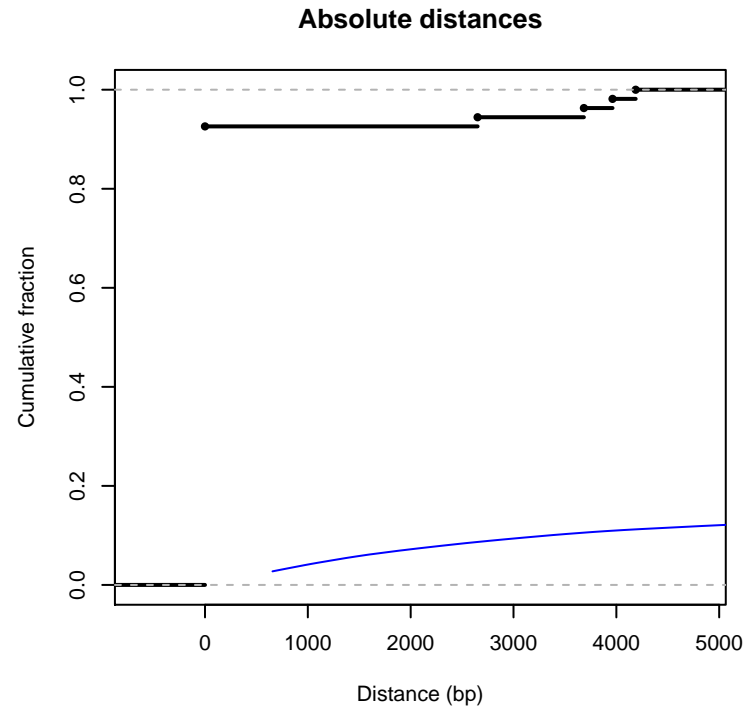
pcontig_073

Query population : 73
Reference population : 70
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215549
Relative ecdf area correlation : 0.862217
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 25.8651



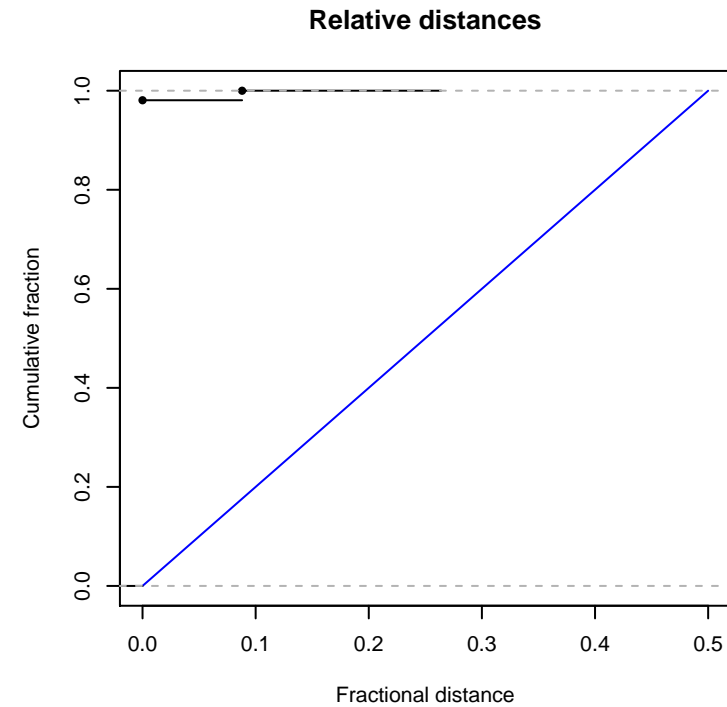
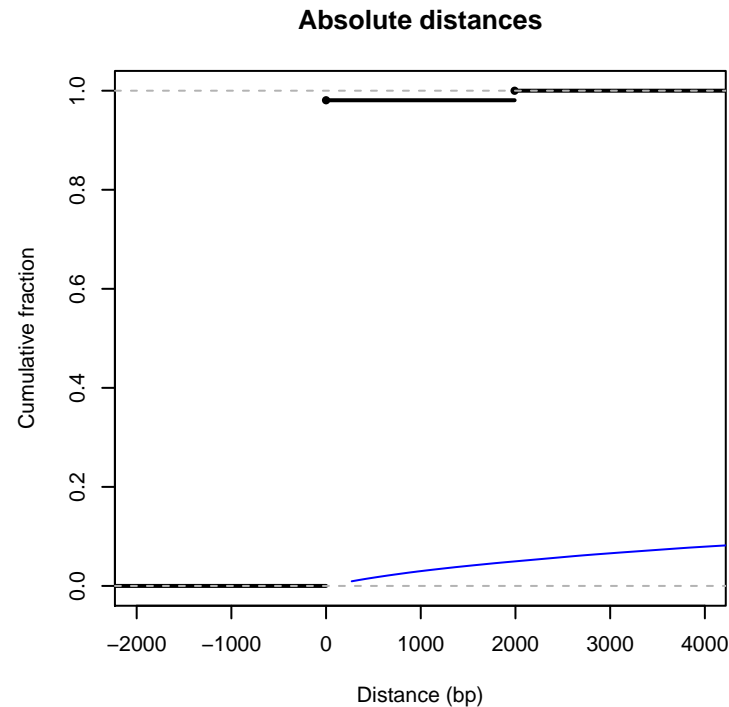
pcontig_074

Query population : 54
Reference population : 64
Relative Ks p-value : 6.66134e-16
Relative ecdf deviation area : 0.22713
Relative ecdf area correlation : 0.908535
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 25.4749



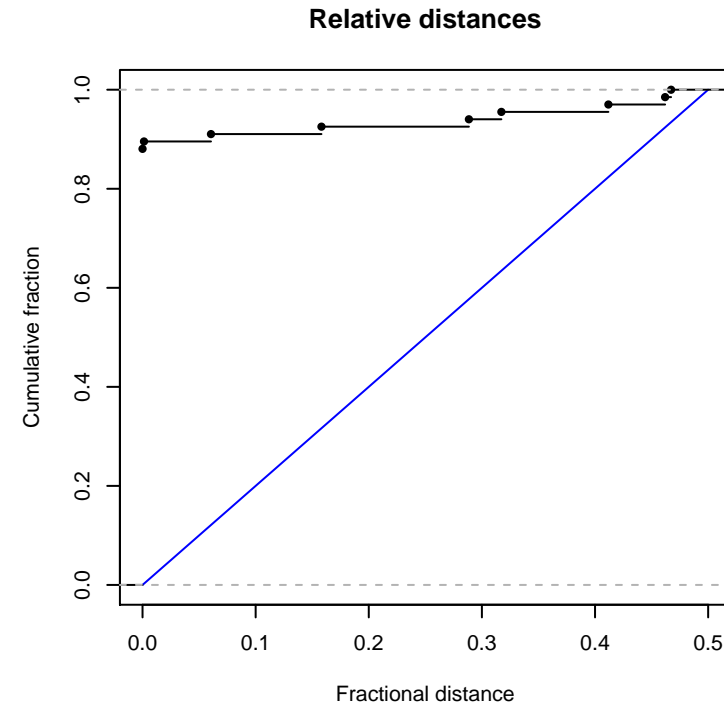
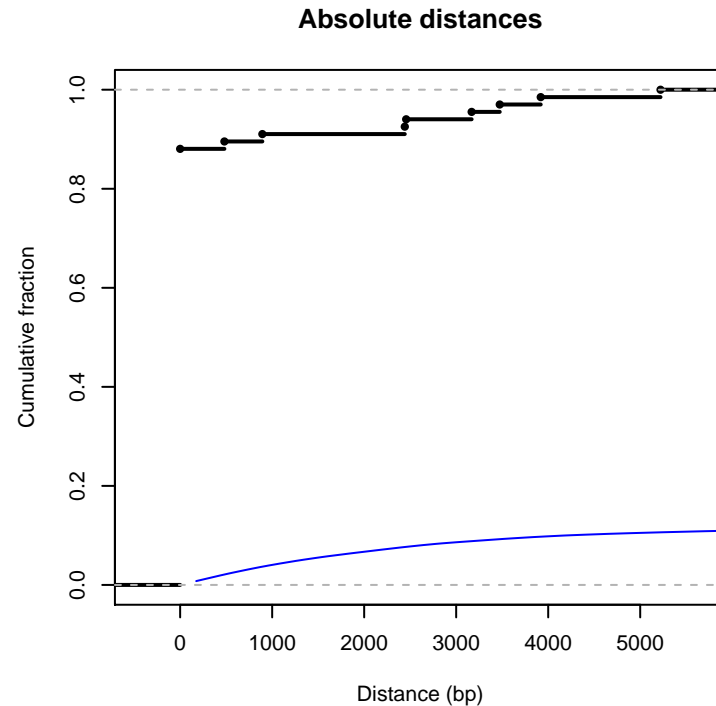
pcontig_075

Query population : 52
Reference population : 53
Relative Ks p-value : 0
Relative ecdf deviation area : 0.248359
Relative ecdf area correlation : 0.99323
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 64.9504



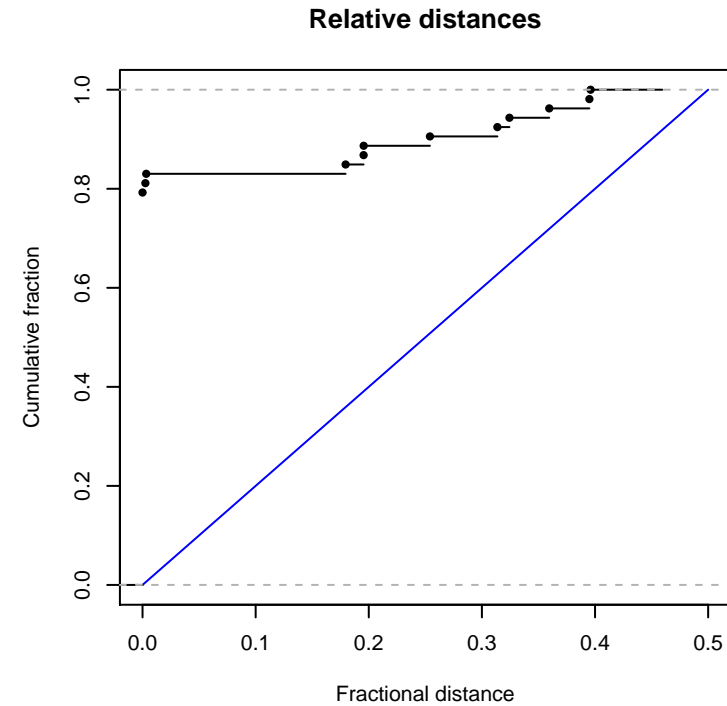
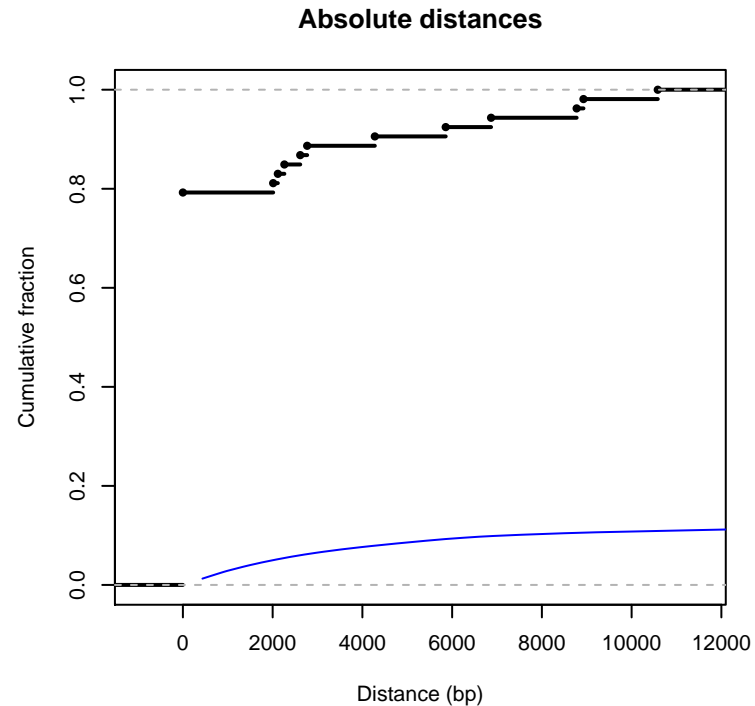
pcontig_077

Query population : 67
Reference population : 68
Relative Ks p-value : 0
Relative ecdf deviation area : 0.217651
Relative ecdf area correlation : 0.870641
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 23.4468



pcontig_078

Query population : 53
Reference population : 45
Relative Ks p-value : 0
Relative ecdf deviation area : 0.200606
Relative ecdf area correlation : 0.802345
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 36.2724



pcontig_079

Query population : 6
Reference population : 7
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 405.276

Absolute distances

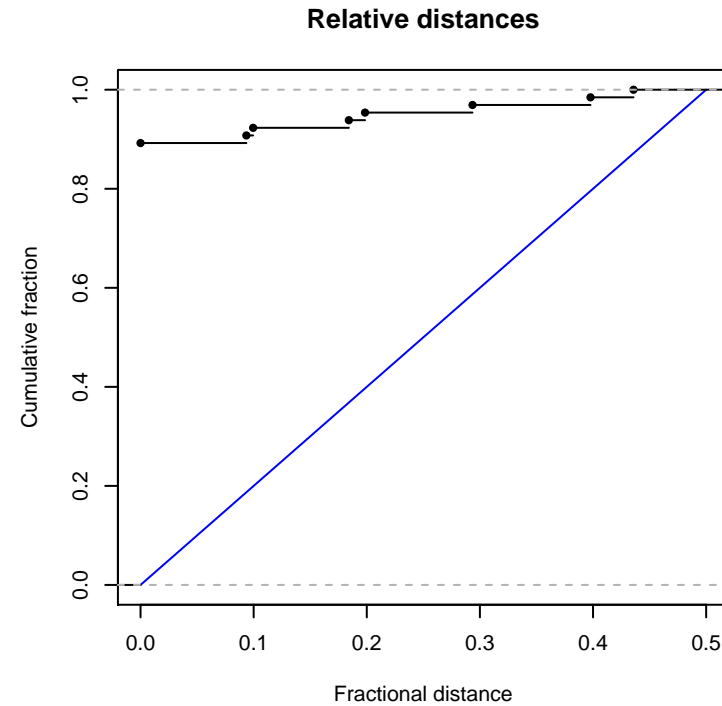
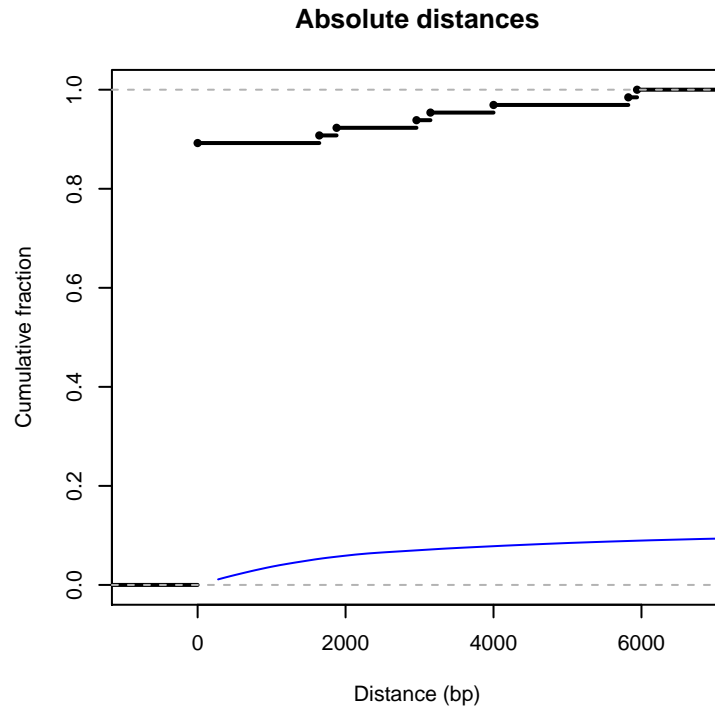


Relative distances



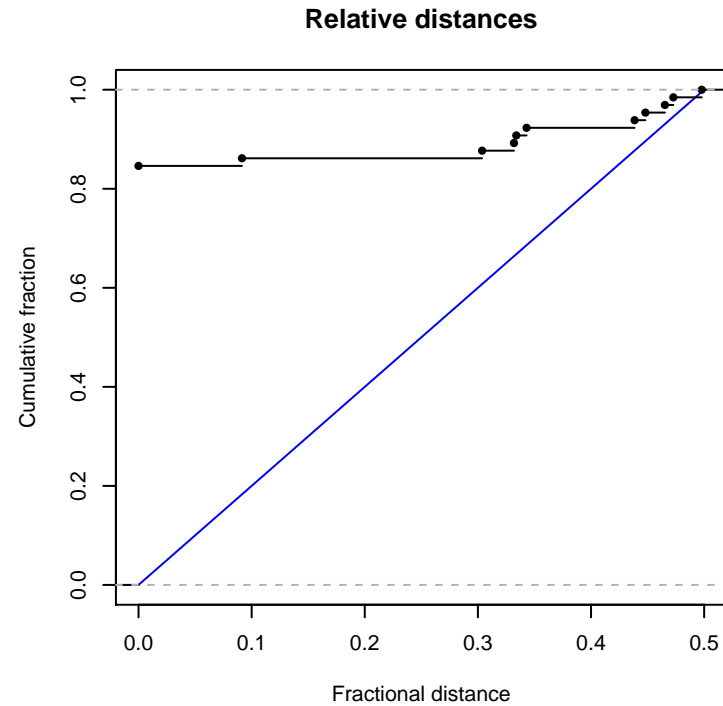
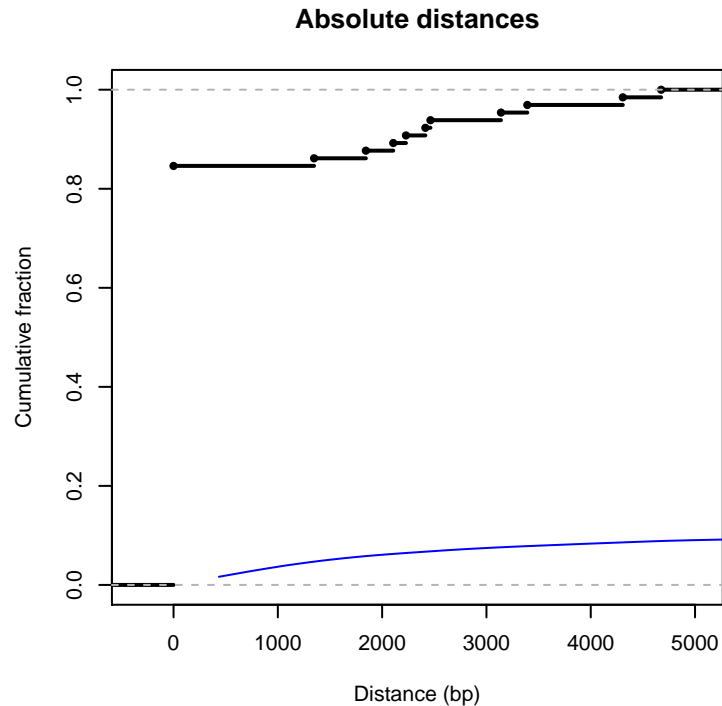
pcontig_080

Query population : 65
Reference population : 62
Relative Ks p-value : 0
Relative ecdf deviation area : 0.22373
Relative ecdf area correlation : 0.895214
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 30.9528



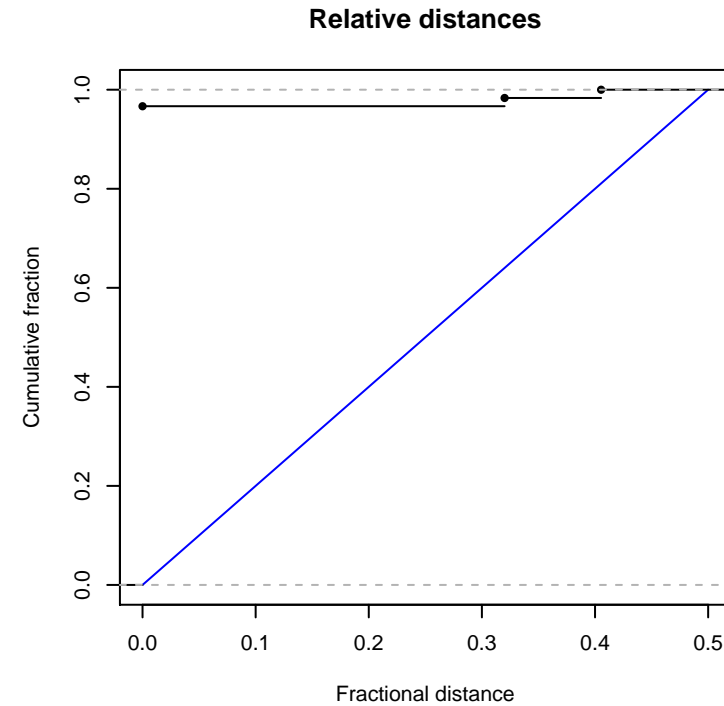
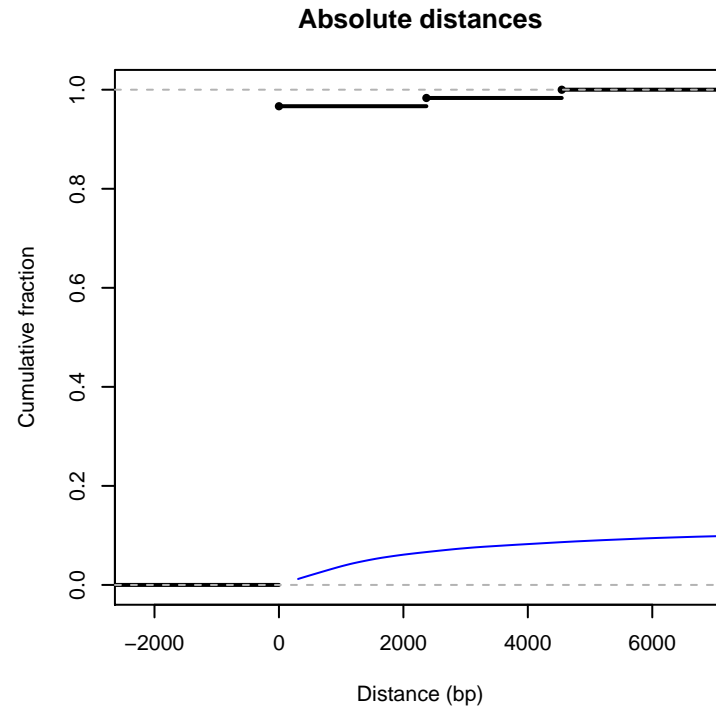
pcontig_081

Query population : 65
Reference population : 58
Relative Ks p-value : 0
Relative ecdf deviation area : 0.192358
Relative ecdf area correlation : 0.770674
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 29.7368



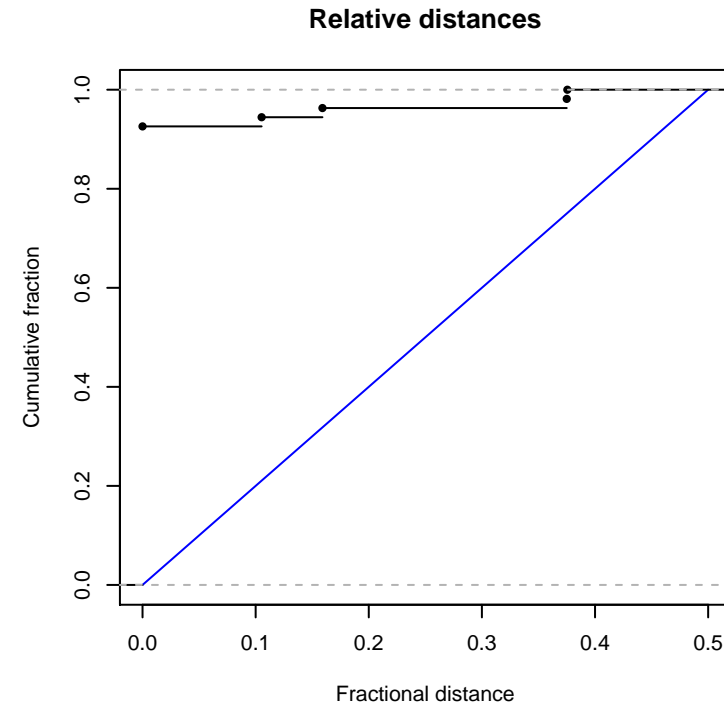
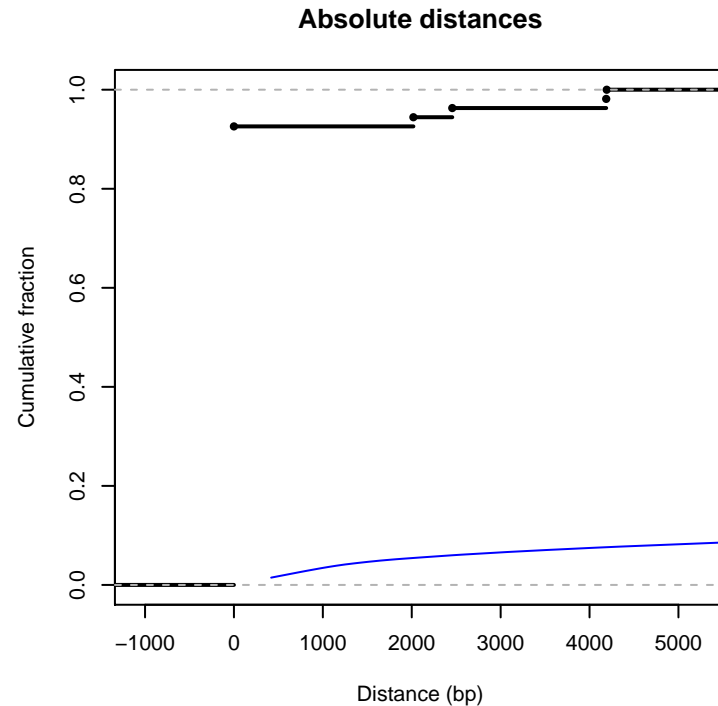
pcontig_082

Query population : 60
Reference population : 60
Relative Ks p-value : 6.66134e-16
Relative ecdf deviation area : 0.238142
Relative ecdf area correlation : 0.951635
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 37.0139



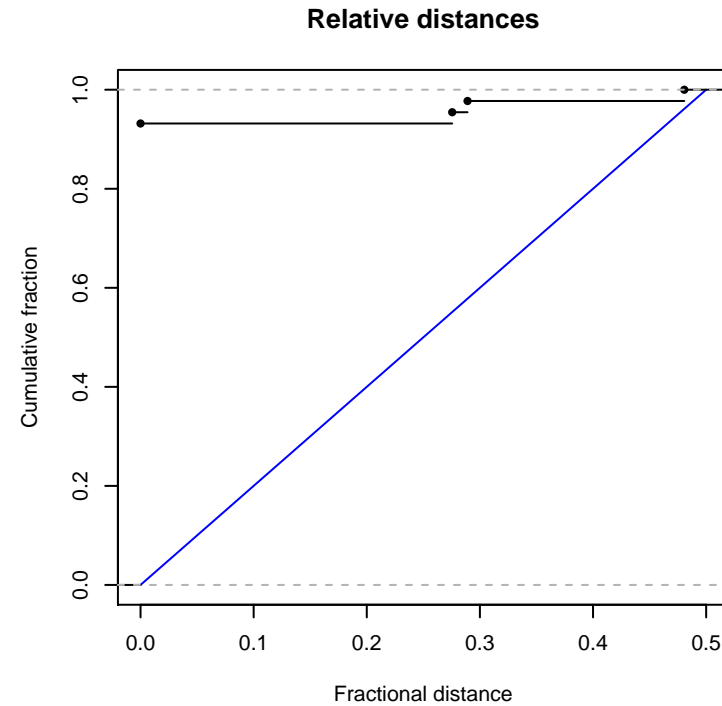
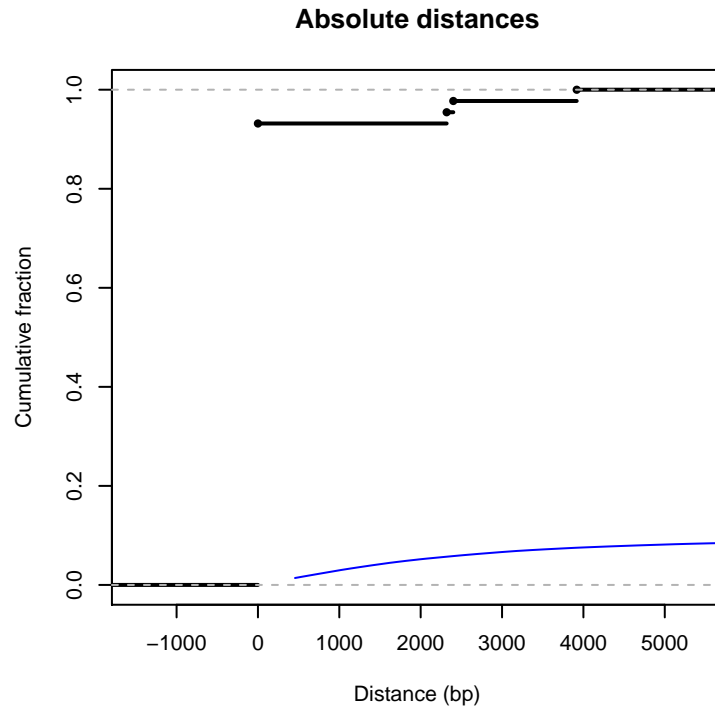
pcontig_083

Query population : 54
Reference population : 54
Relative Ks p-value : 6.66134e-16
Relative ecdf deviation area : 0.231468
Relative ecdf area correlation : 0.924825
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 35.9958



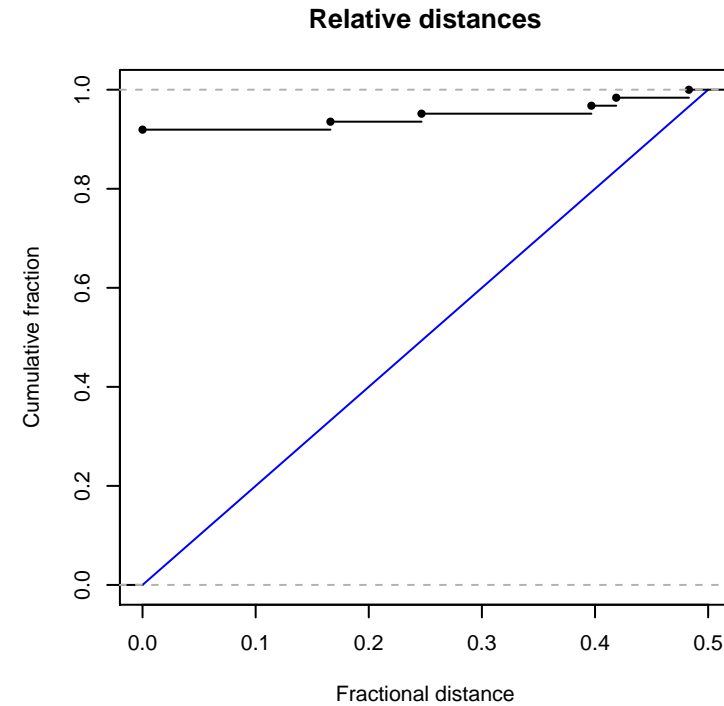
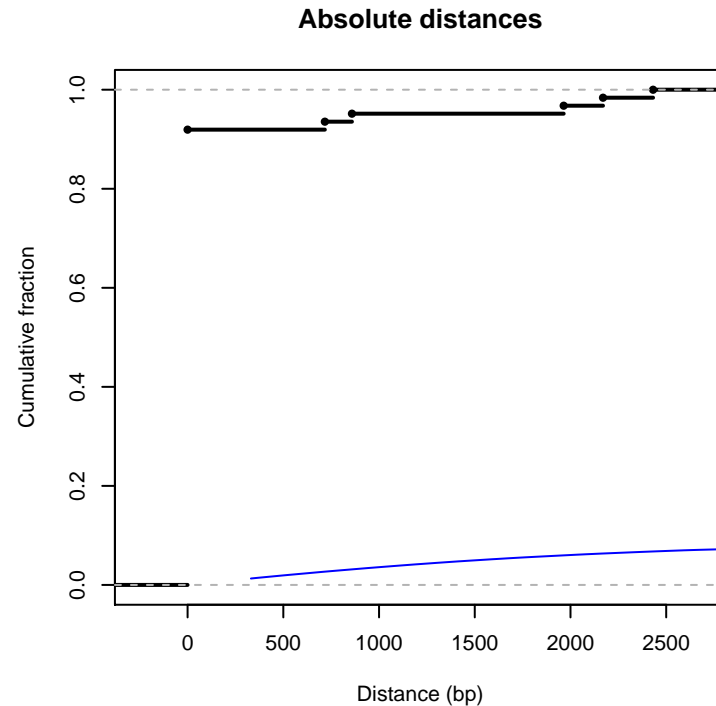
pcontig_084

Query population : 44
Reference population : 47
Relative Ks p-value : 0
Relative ecdf deviation area : 0.226287
Relative ecdf area correlation : 0.904976
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 38.5406



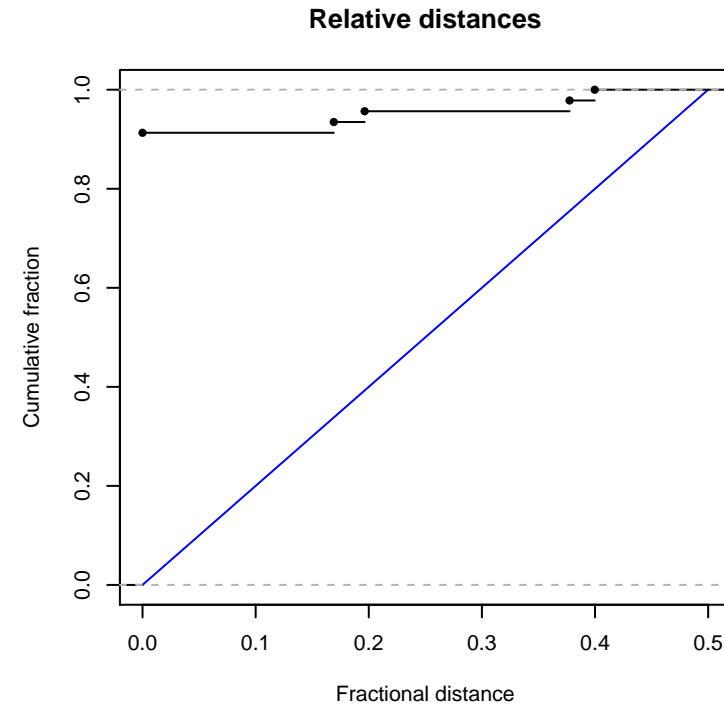
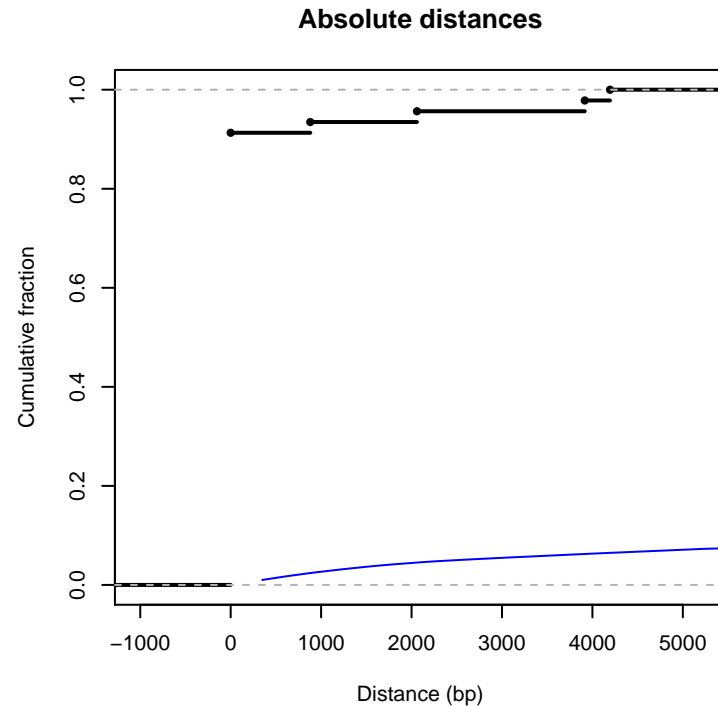
pcontig_086

Query population : 62
Reference population : 60
Relative Ks p-value : 7.77156e-16
Relative ecdf deviation area : 0.222731
Relative ecdf area correlation : 0.889596
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 38.1276



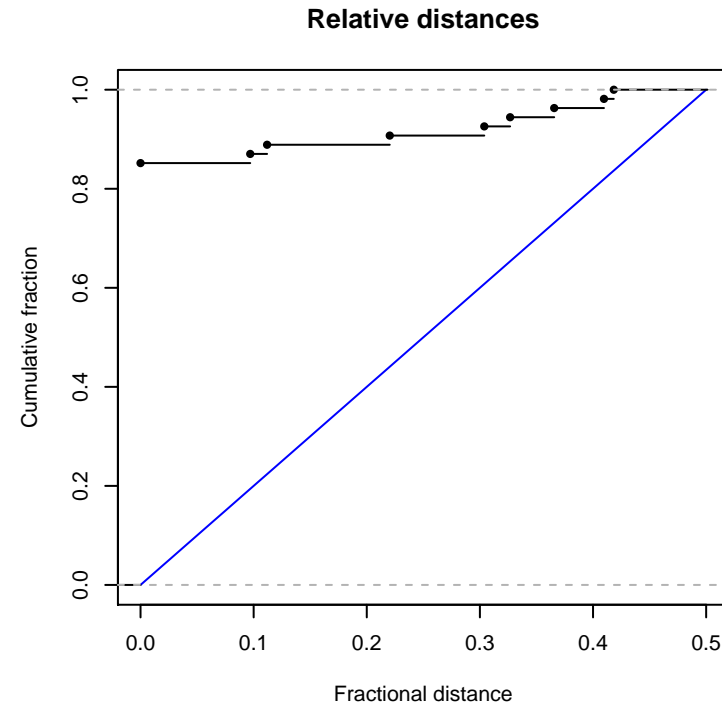
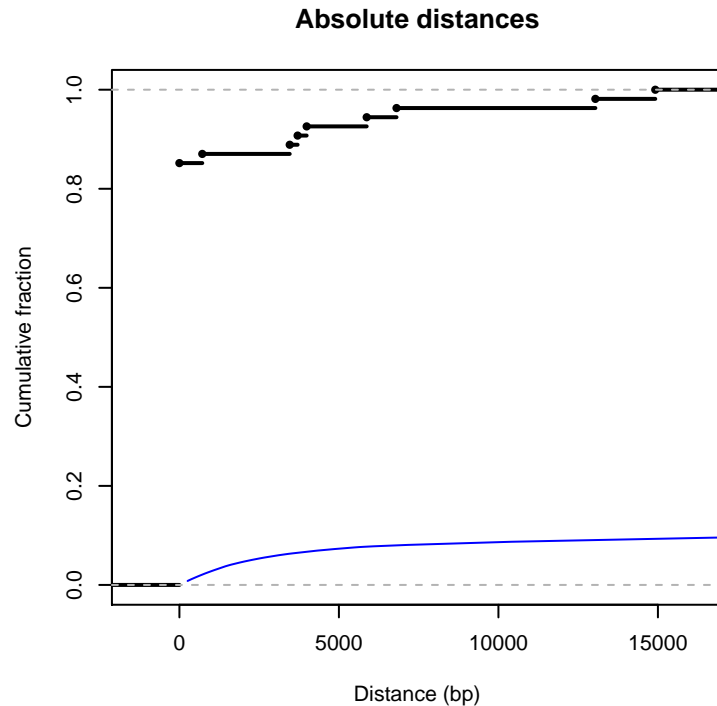
pcontig_087

Query population : 46
Reference population : 44
Relative Ks p-value : 0
Relative ecdf deviation area : 0.22535
Relative ecdf area correlation : 0.900641
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 40.7251



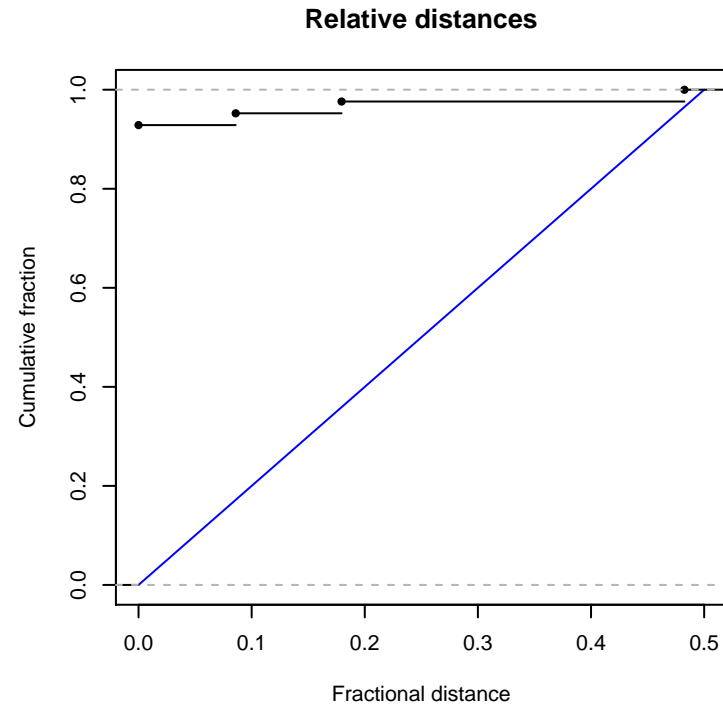
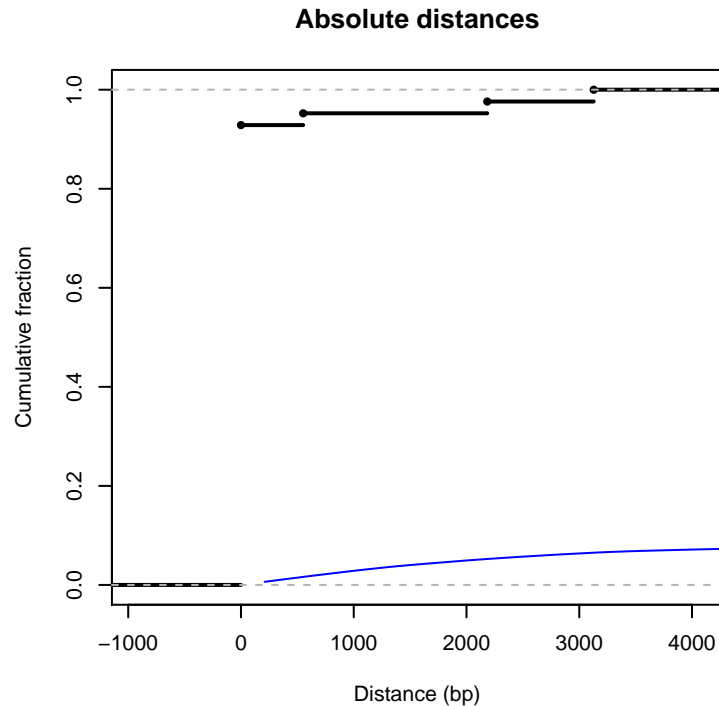
pcontig_088

Query population : 54
Reference population : 48
Relative Ks p-value : 6.66134e-16
Relative ecdf deviation area : 0.207702
Relative ecdf area correlation : 0.833078
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 39.5212



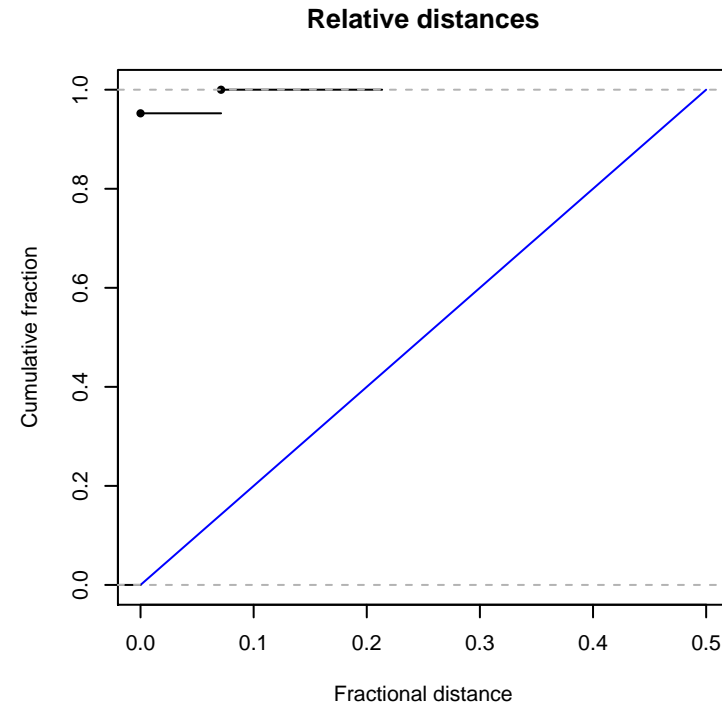
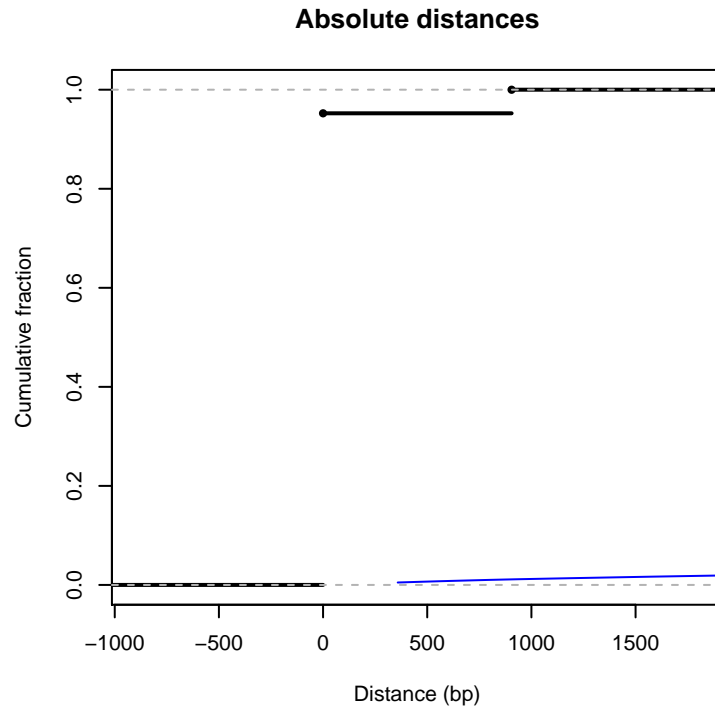
pcontig_089

Query population : 42
Reference population : 46
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.231815
Relative ecdf area correlation : 0.928767
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 34.145



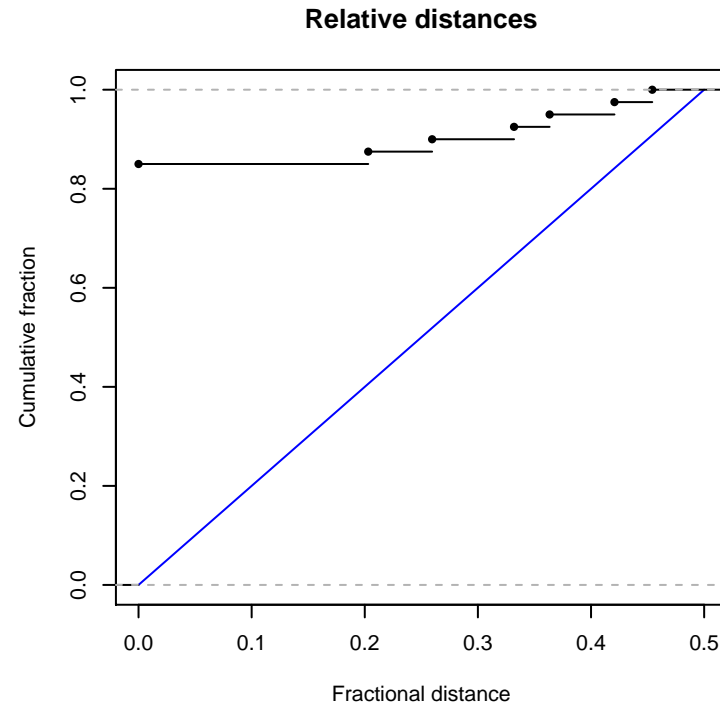
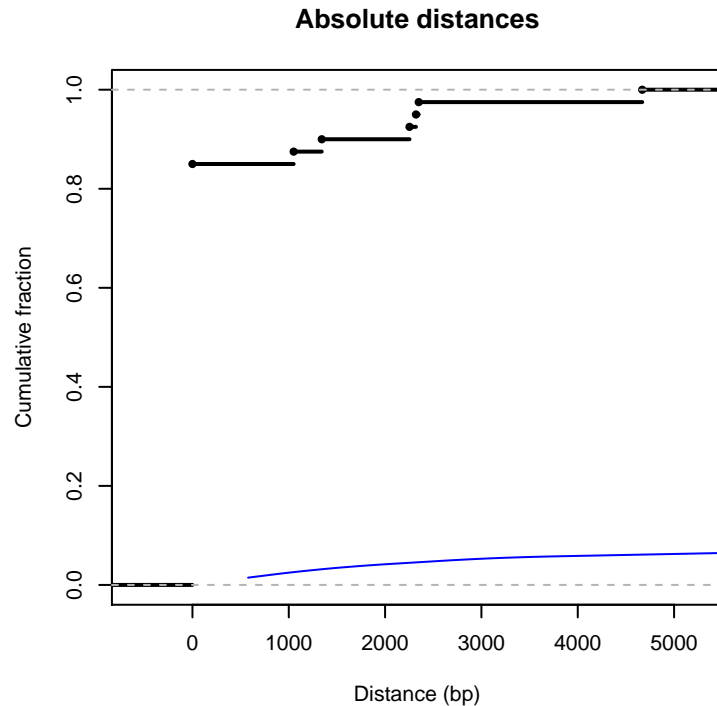
pcontig_090

Query population : 21
Reference population : 21
Relative Ks p-value : 0
Relative ecdf deviation area : 0.246801
Relative ecdf area correlation : 0.986438
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 100.153



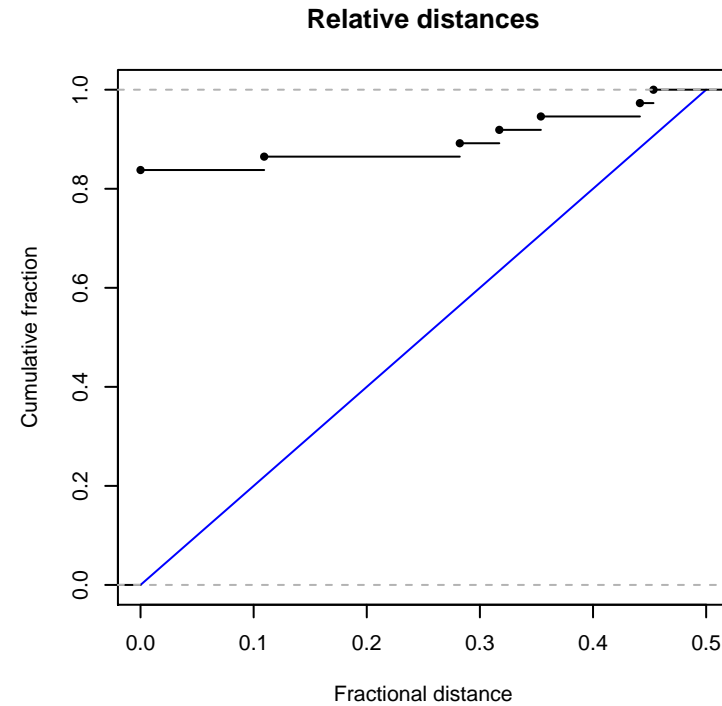
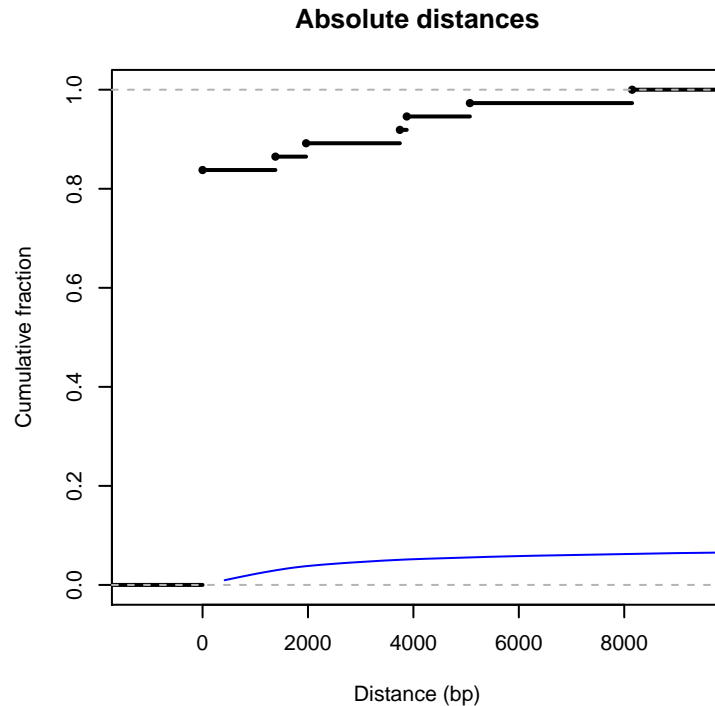
pcontig_091

Query population : 40
Reference population : 39
Relative Ks p-value : 0
Relative ecdf deviation area : 0.199039
Relative ecdf area correlation : 0.796718
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 35.4284



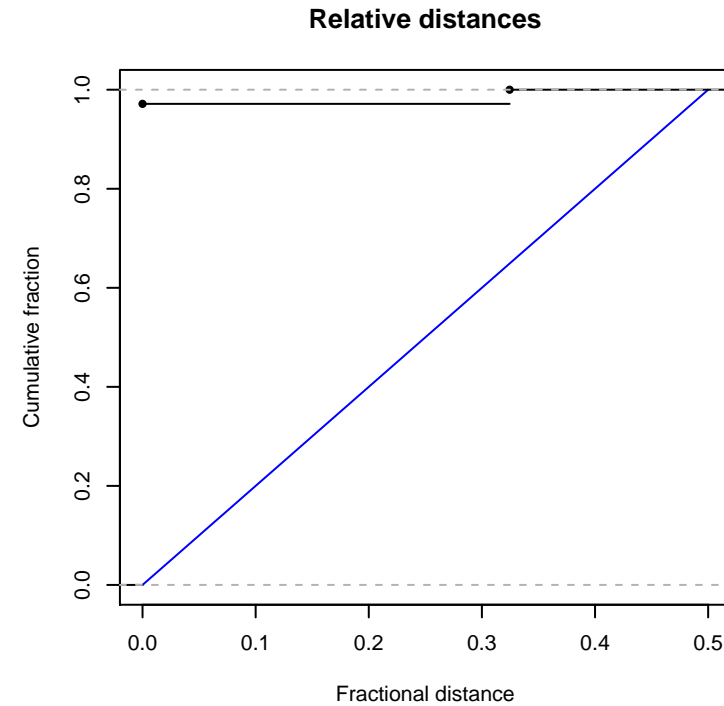
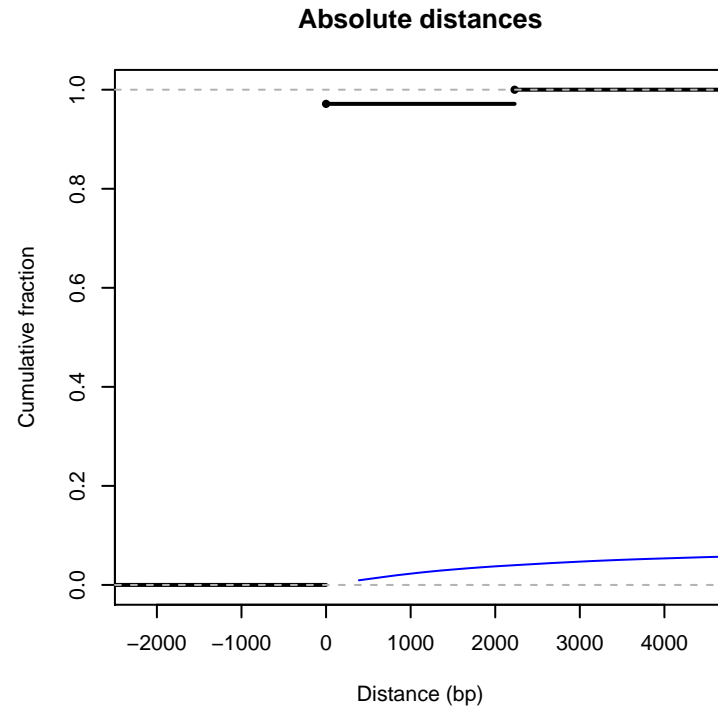
pcontig_092

Query population : 37
Reference population : 35
Relative Ks p-value : 0
Relative ecdf deviation area : 0.198664
Relative ecdf area correlation : 0.788381
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 36.8584



pcontig_095

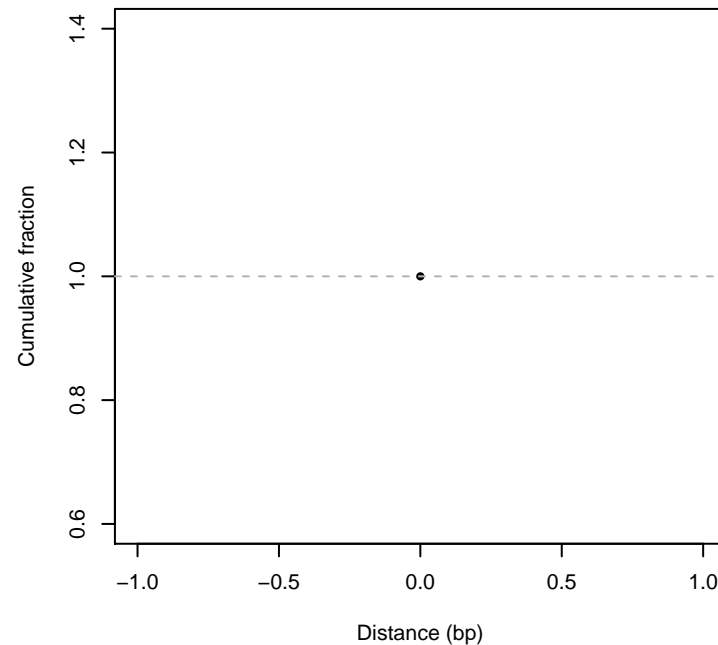
Query population : 35
Reference population : 37
Relative Ks p-value : 0
Relative ecdf deviation area : 0.240674
Relative ecdf area correlation : 0.962914
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 55.6011



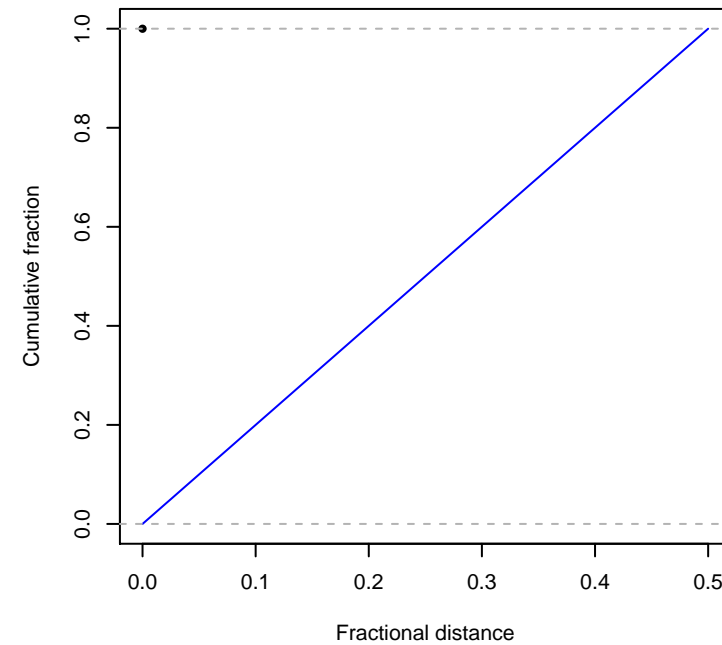
pcontig_096

Query population : 3
Reference population : 3
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2370.17

Absolute distances

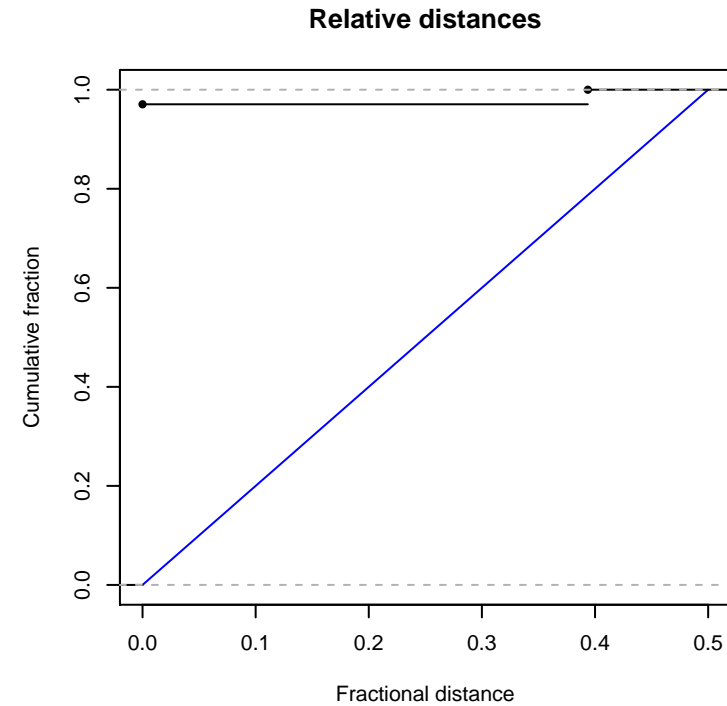
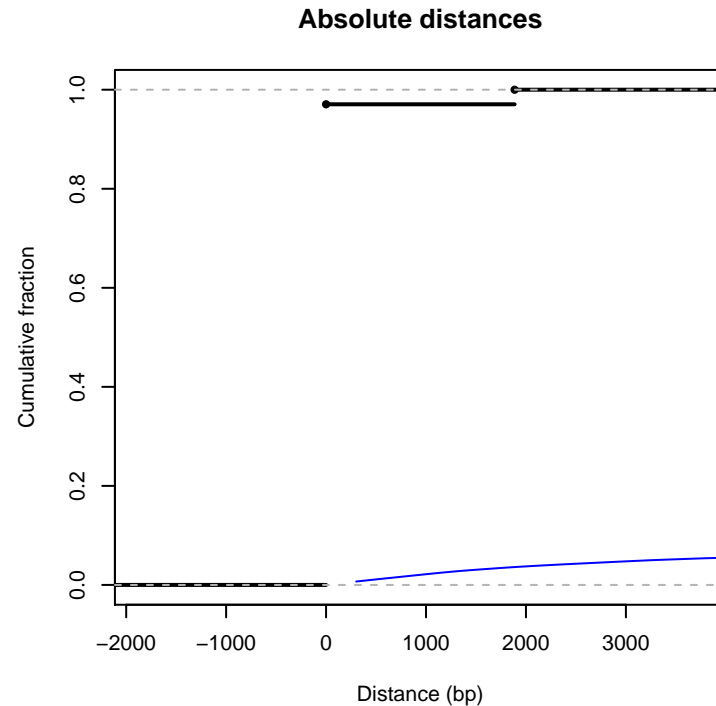


Relative distances



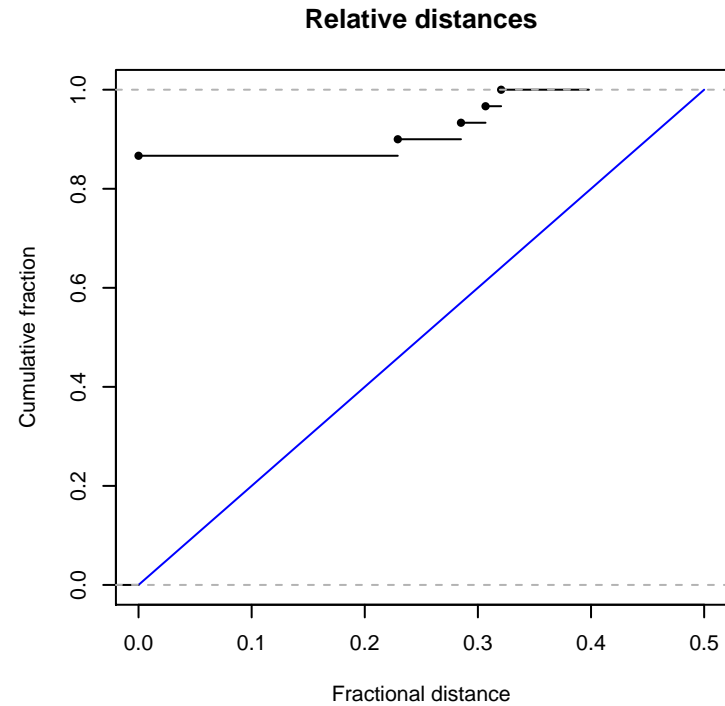
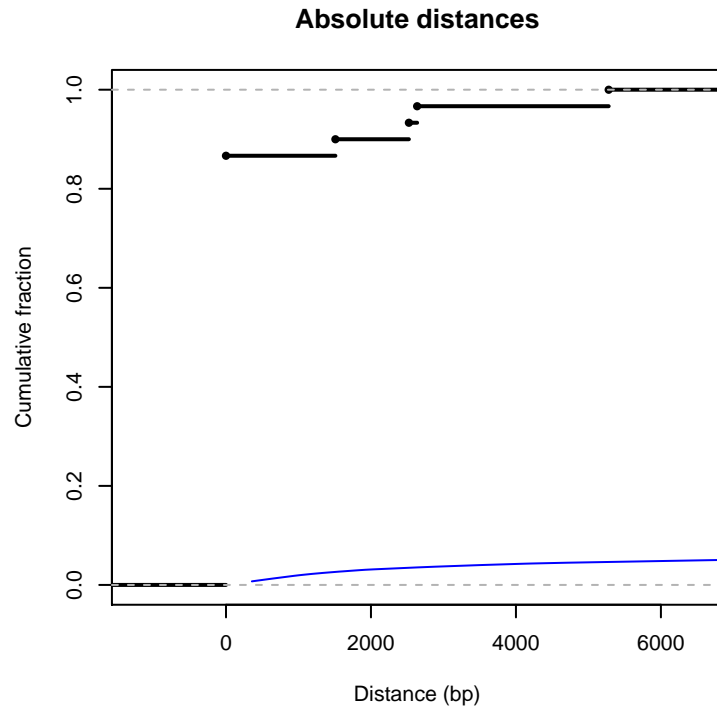
pcontig_097

Query population : 34
Reference population : 35
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.238479
Relative ecdf area correlation : 0.95369
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 52.7359



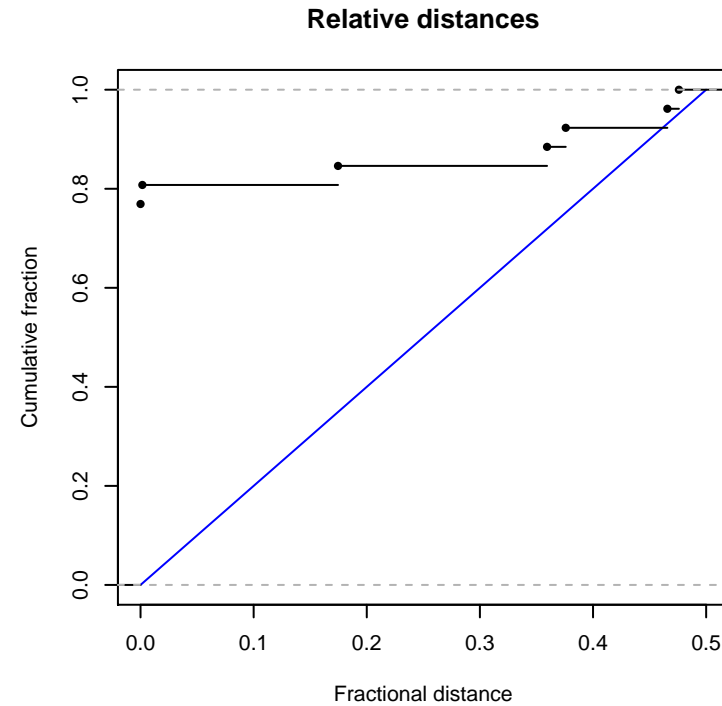
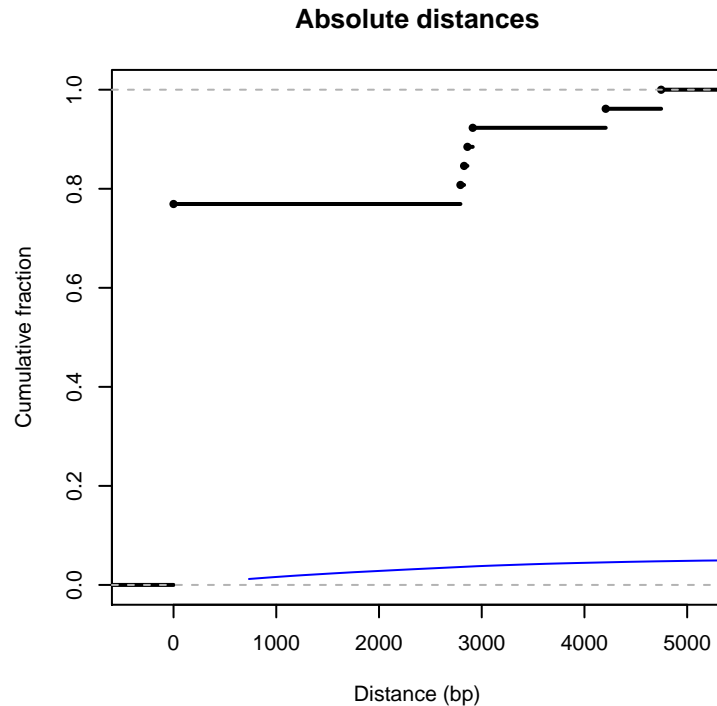
pcontig_100

Query population : 30
Reference population : 31
Relative Ks p-value : 1.22125e-15
Relative ecdf deviation area : 0.212119
Relative ecdf area correlation : 0.847797
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 54.0258



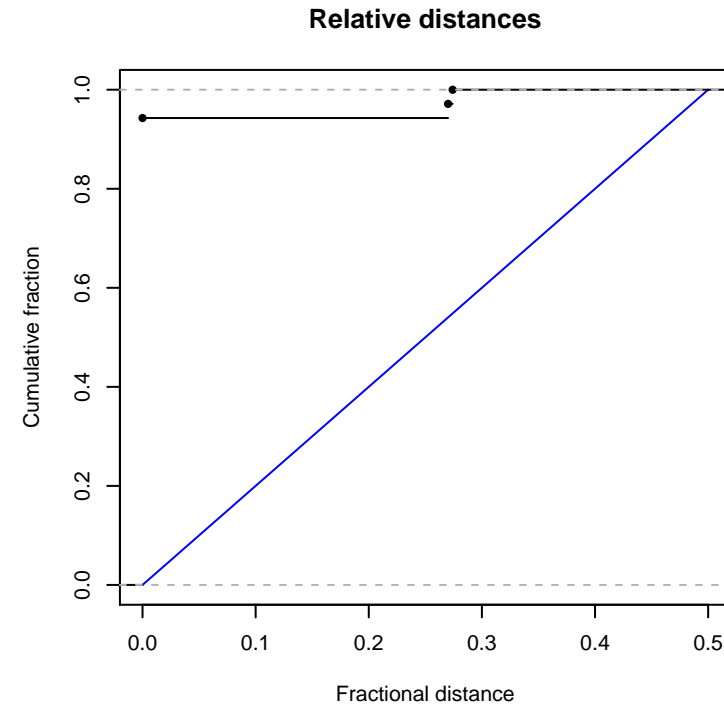
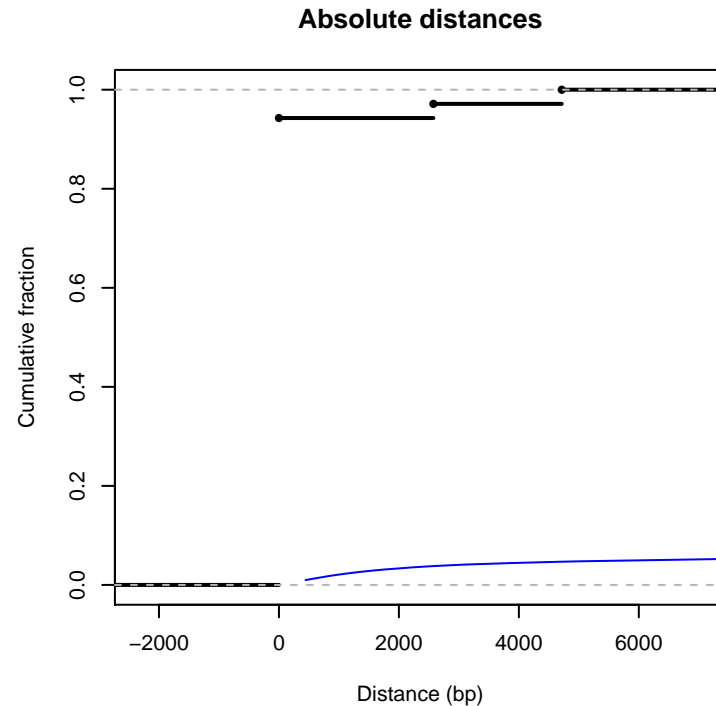
pcontig_103

Query population : 26
Reference population : 25
Relative Ks p-value : 5.55112e-16
Relative ecdf deviation area : 0.178702
Relative ecdf area correlation : 0.714904
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 58.6244



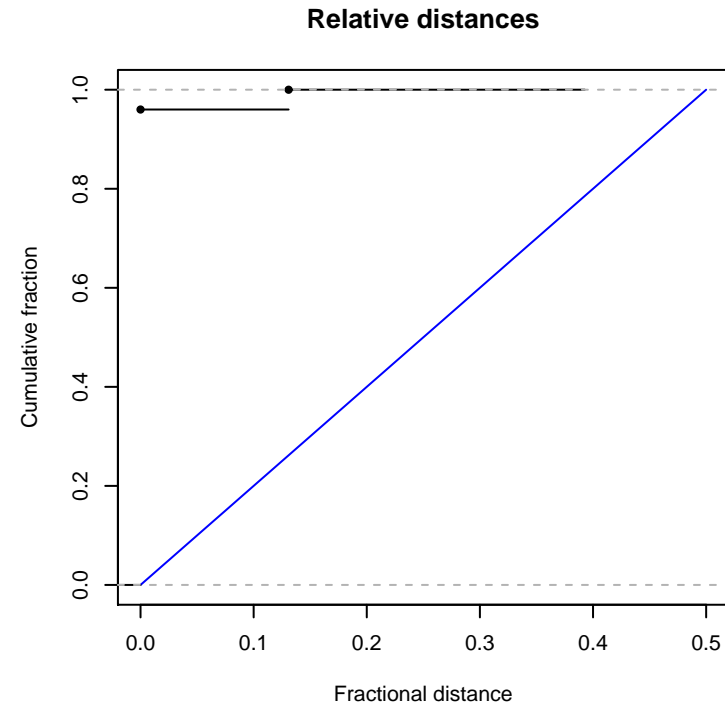
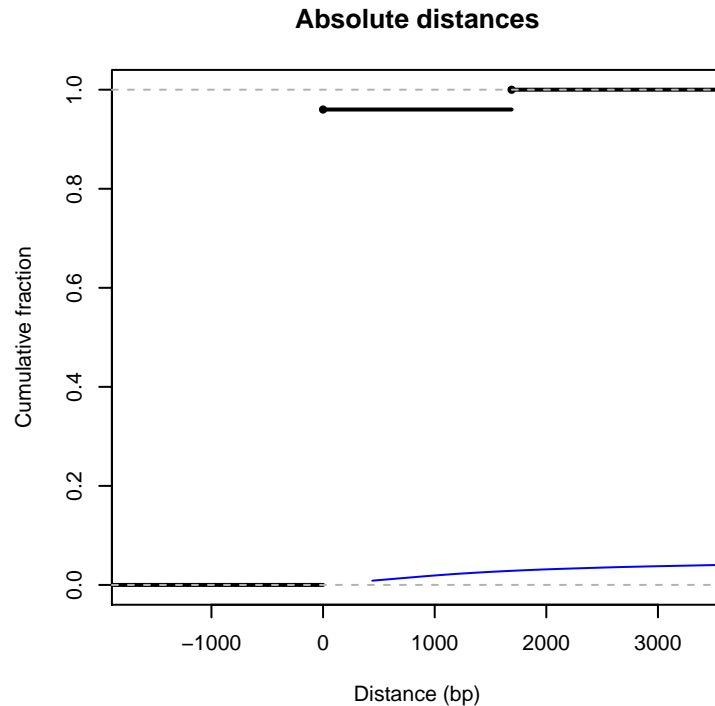
pcontig_104

Query population : 35
Reference population : 34
Relative Ks p-value : 0
Relative ecdf deviation area : 0.234369
Relative ecdf area correlation : 0.937804
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 51.4473



pcontig_106

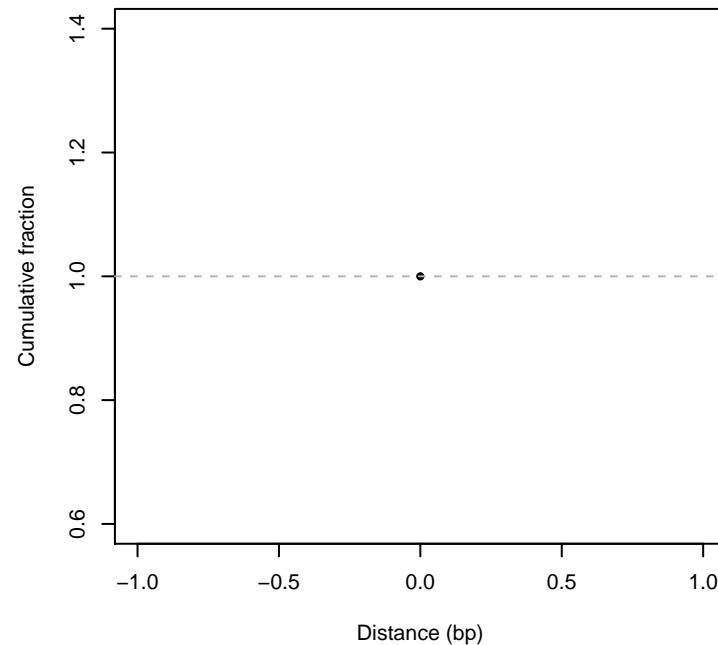
Query population : 25
Reference population : 30
Relative Ks p-value : 3.33067e-16
Relative ecdf deviation area : 0.244752
Relative ecdf area correlation : 0.979058
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 54.3949



pcontig_110

Query population : 26
Reference population : 28
Relative Ks p-value : 5.55112e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 76.8467

Absolute distances

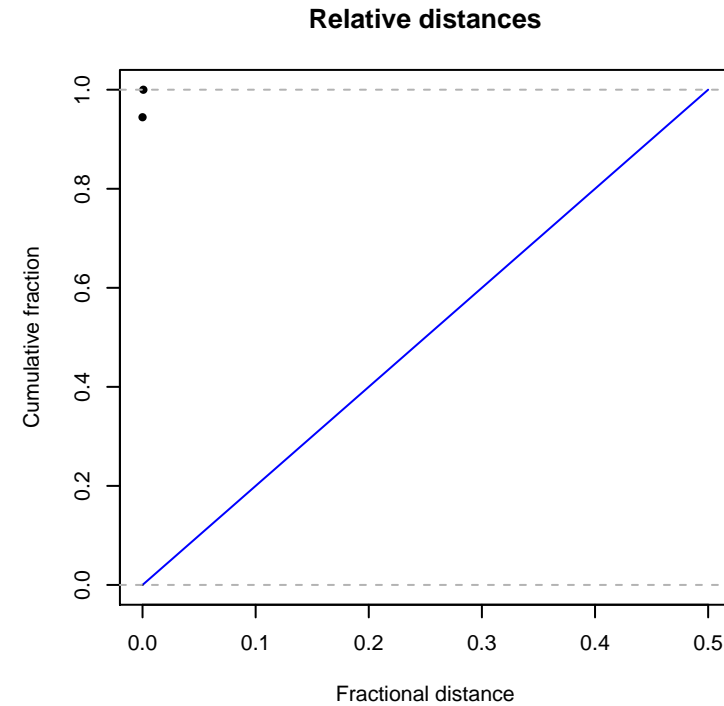
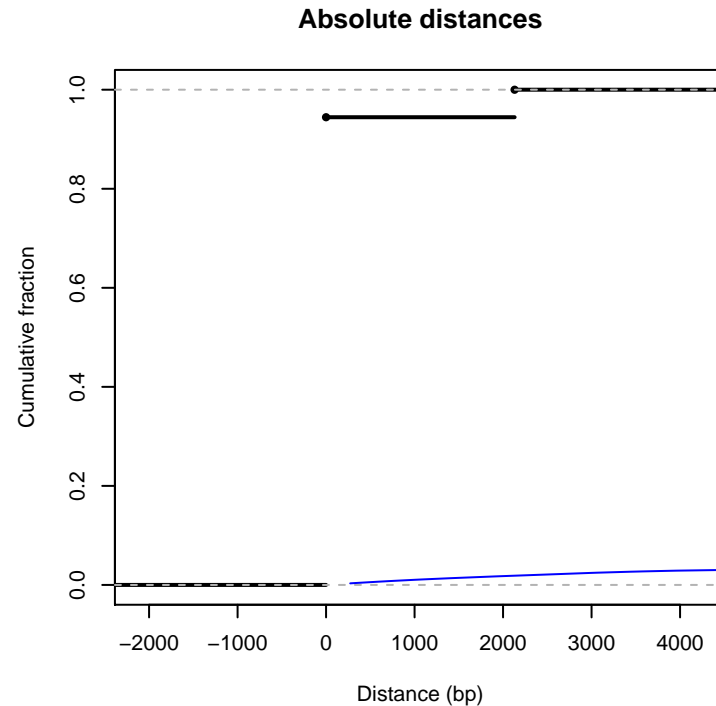


Relative distances



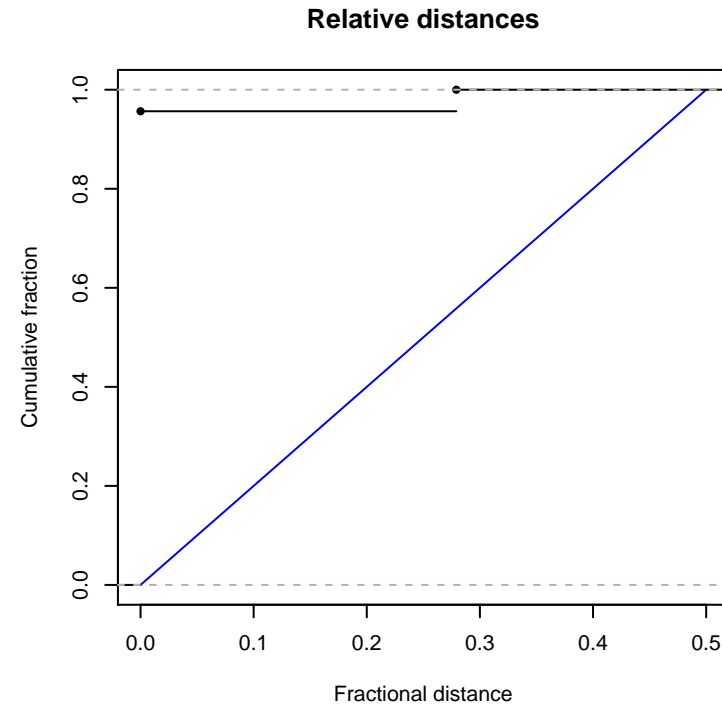
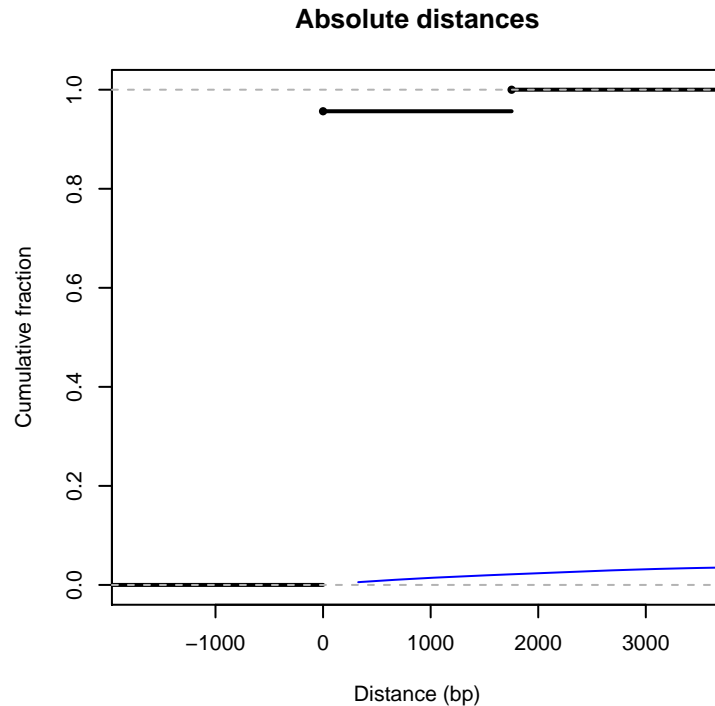
pcontig_112

Query population : 18
Reference population : 18
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.99984
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 155.818



pcontig_115

Query population : 23
Reference population : 26
Relative Ks p-value : 4.44089e-16
Relative ecdf deviation area : 0.237772
Relative ecdf area correlation : 0.951448
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 120.007



pcontig_118

Query population : 4
Reference population : 4
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 864.558

Absolute distances

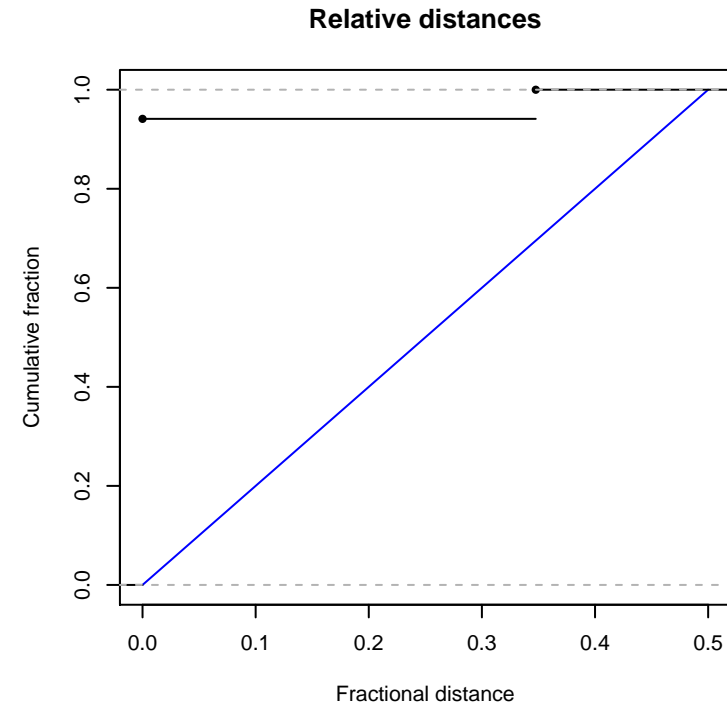
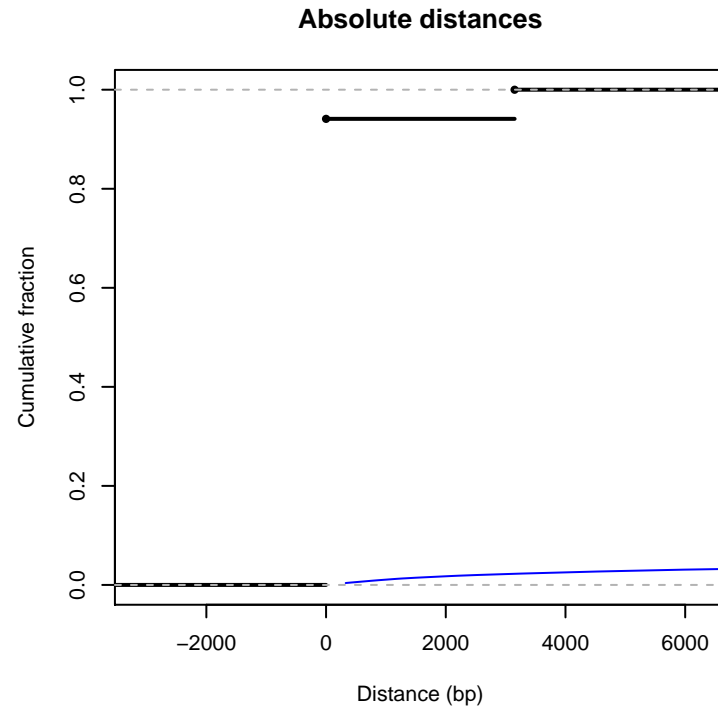


Relative distances



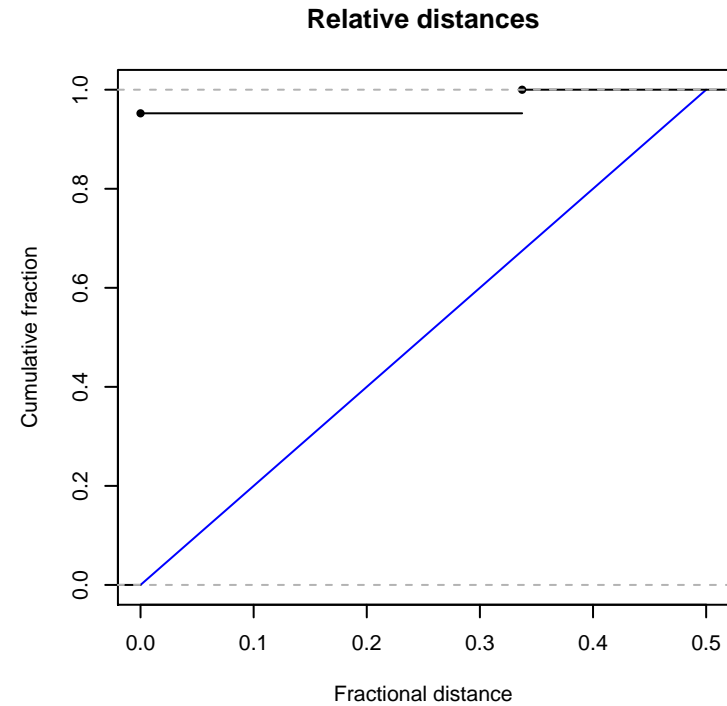
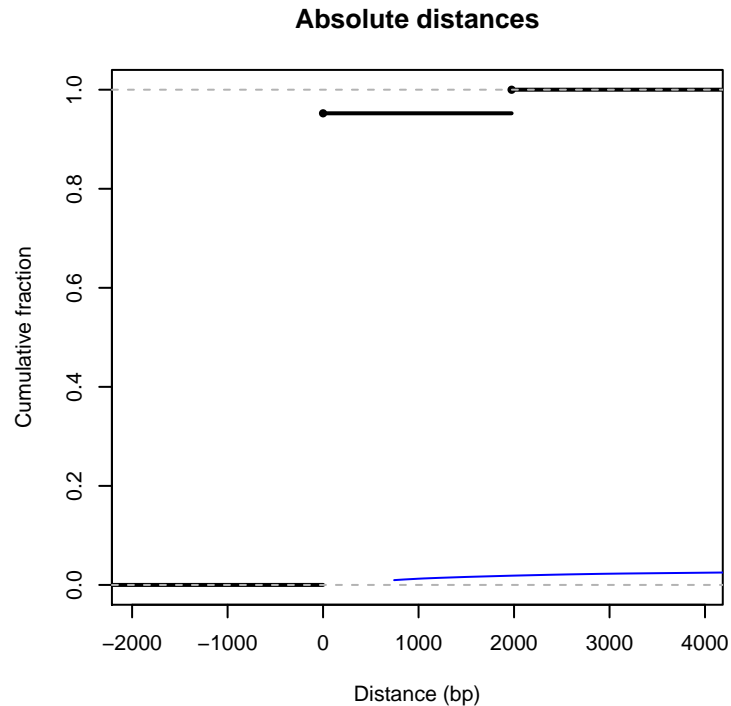
pcontig_120

Query population : 17
Reference population : 18
Relative Ks p-value : 0
Relative ecdf deviation area : 0.22978
Relative ecdf area correlation : 0.91821
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 154.762



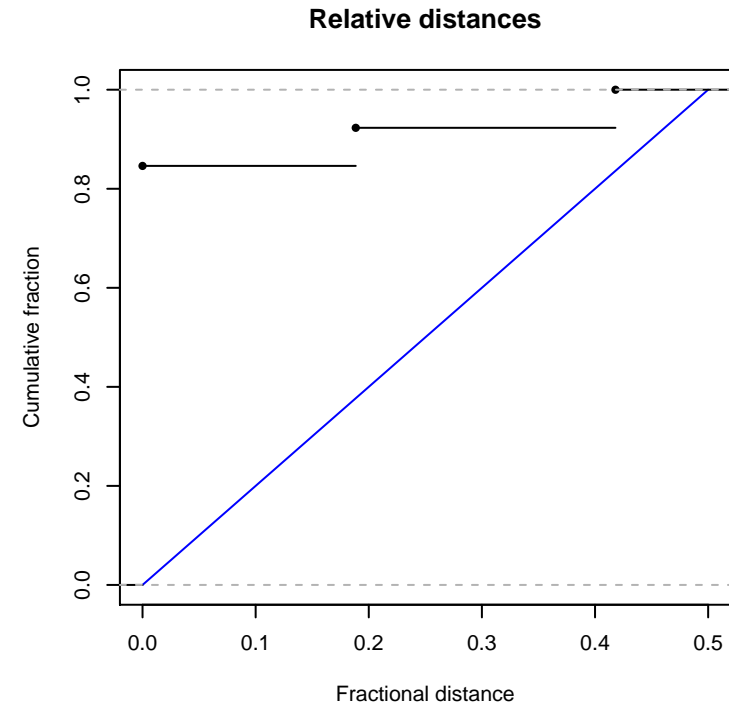
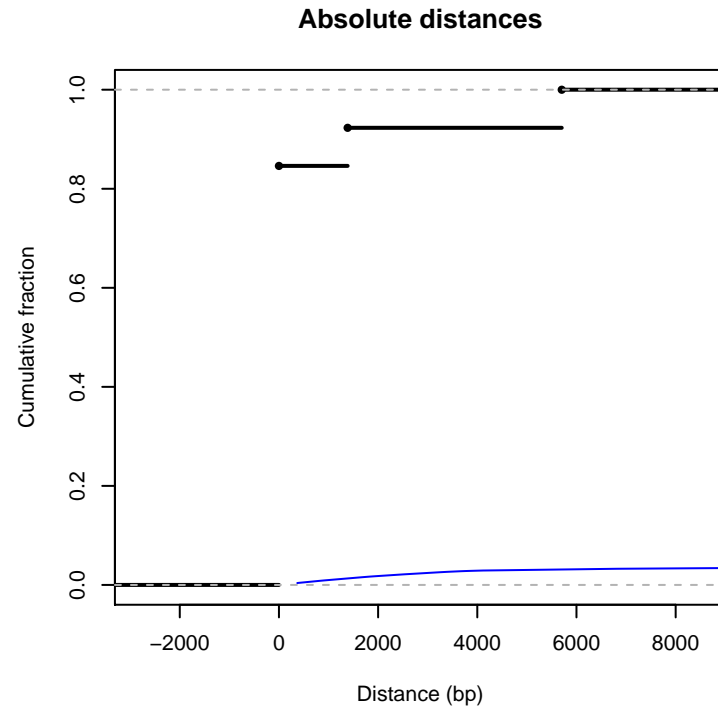
pcontig_129

Query population : 21
Reference population : 20
Relative Ks p-value : 0
Relative ecdf deviation area : 0.234032
Relative ecdf area correlation : 0.935749
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 97.1661



pcontig_130

Query population : 13
Reference population : 16
Relative Ks p-value : 5.50441e-11
Relative ecdf deviation area : 0.20332
Relative ecdf area correlation : 0.813368
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 95.8796



pcontig_134

Query population : 1
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11383.9

Absolute distances

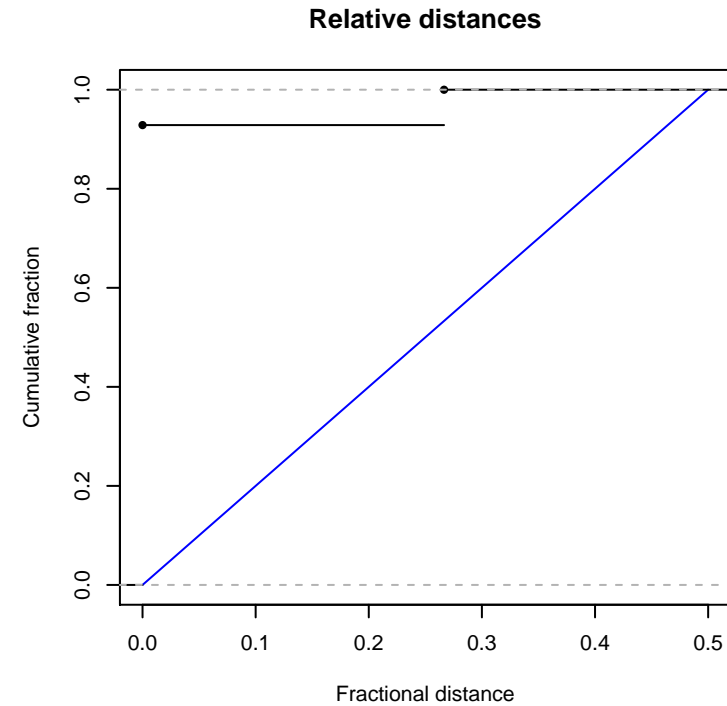
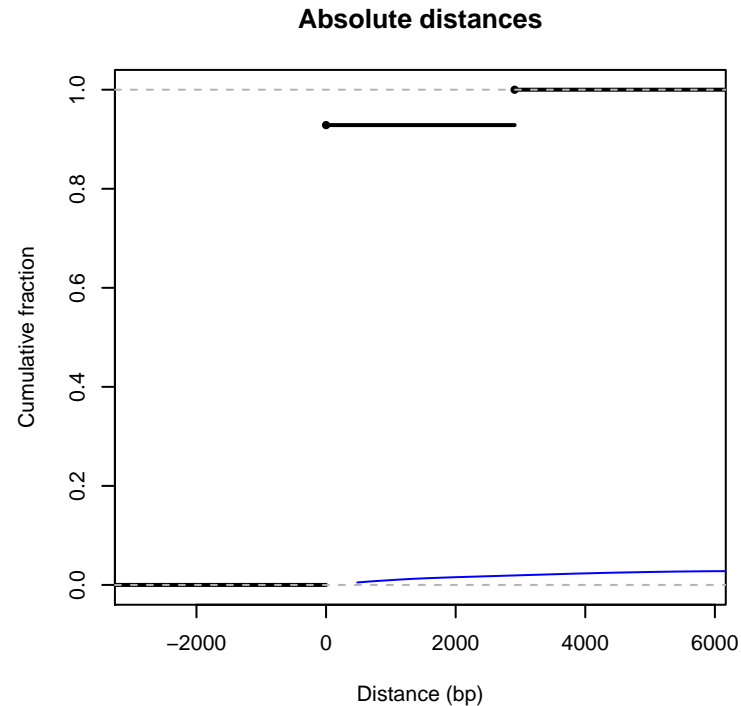


Relative distances



pcontig_138

Query population : 14
Reference population : 16
Relative Ks p-value : 6.66134e-16
Relative ecdf deviation area : 0.23095
Relative ecdf area correlation : 0.923847
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 145.897



pcontig_139

Query population : 13
Reference population : 13
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 211.965

Absolute distances



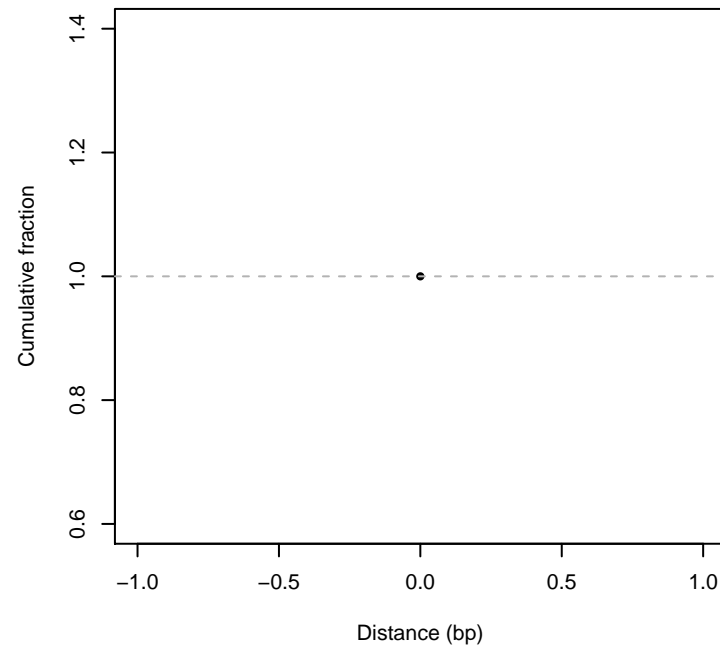
Relative distances



pcontig_140

Query population : 18
Reference population : 18
Relative Ks p-value : 2.22045e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 174.448

Absolute distances



Relative distances



pcontig_146

Query population : 27
Reference population : 31
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 68.7871

Absolute distances

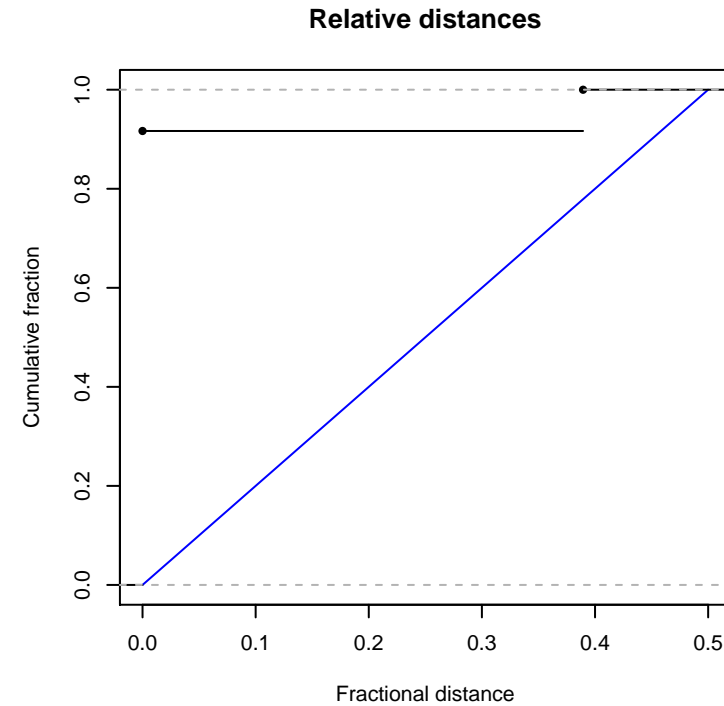
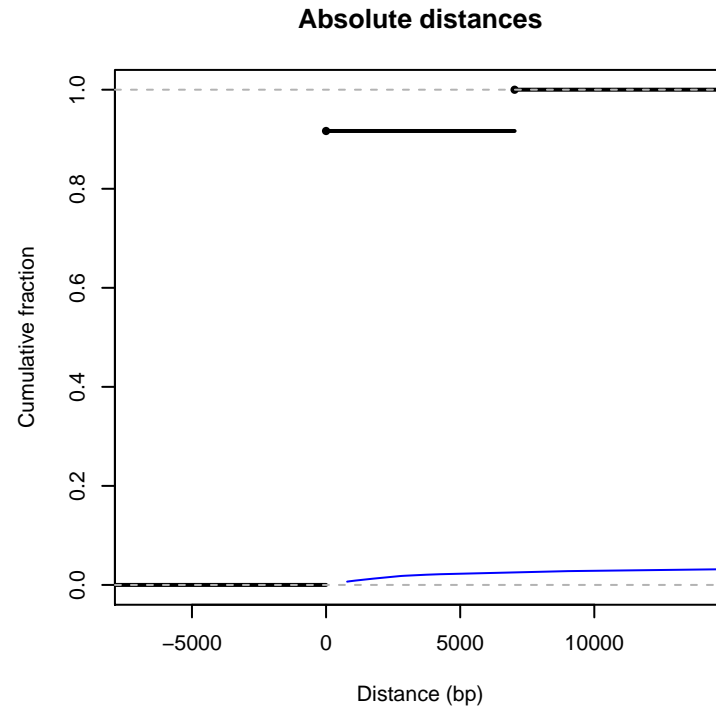


Relative distances



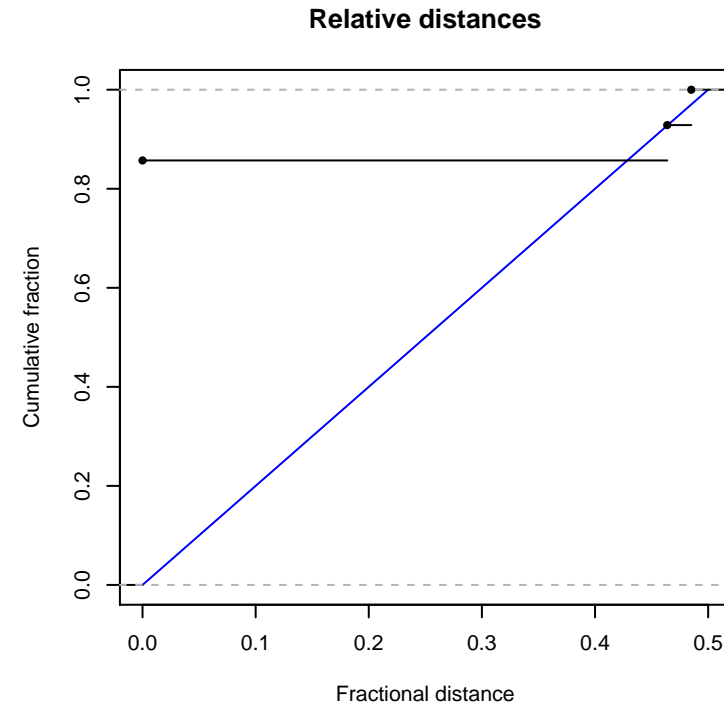
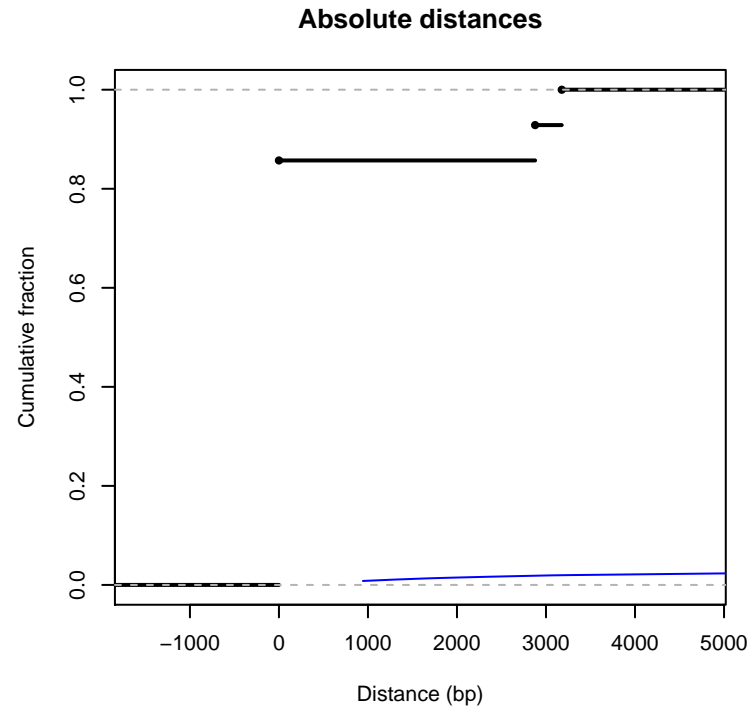
pcontig_147

Query population : 12
Reference population : 13
Relative Ks p-value : 2.24376e-13
Relative ecdf deviation area : 0.217358
Relative ecdf area correlation : 0.870194
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 99.7185



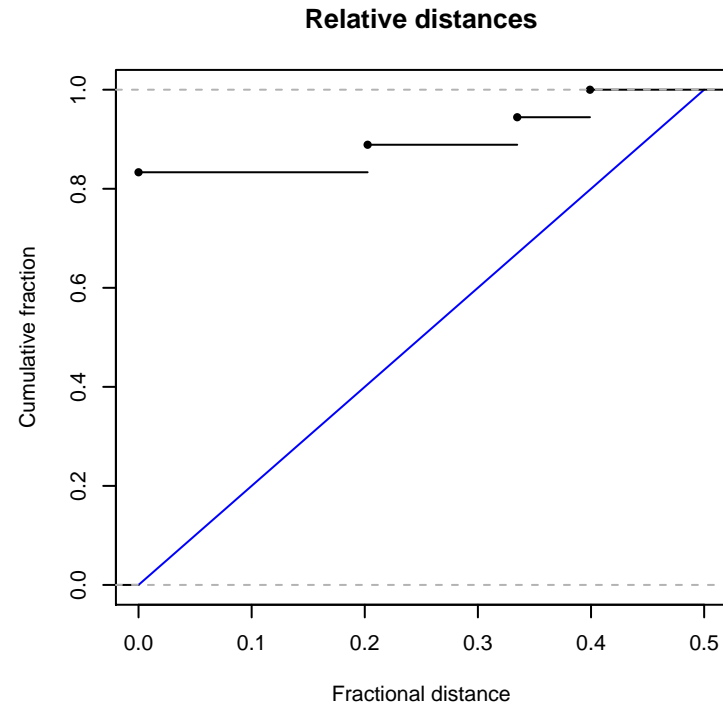
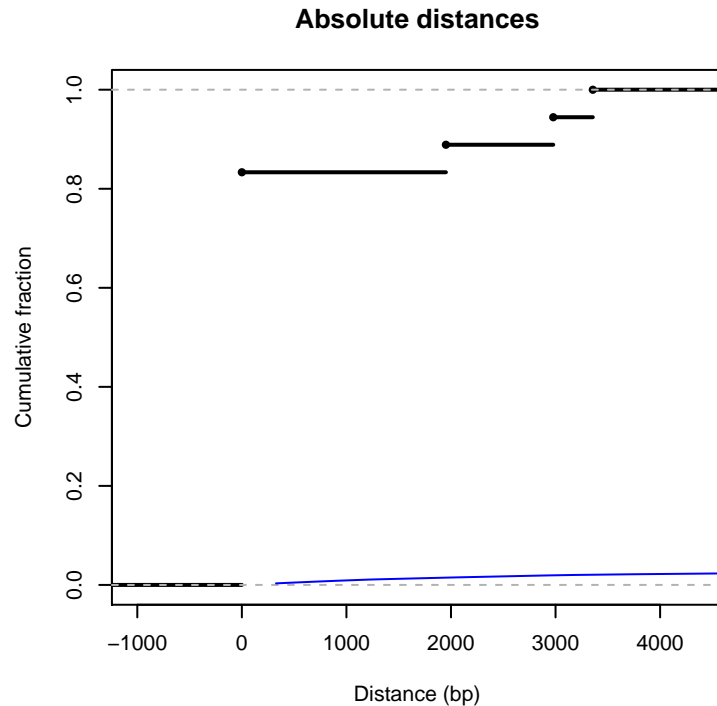
pcontig_148

Query population : 14
Reference population : 13
Relative Ks p-value : 2.97962e-12
Relative ecdf deviation area : 0.185278
Relative ecdf area correlation : 0.728877
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 88.4932



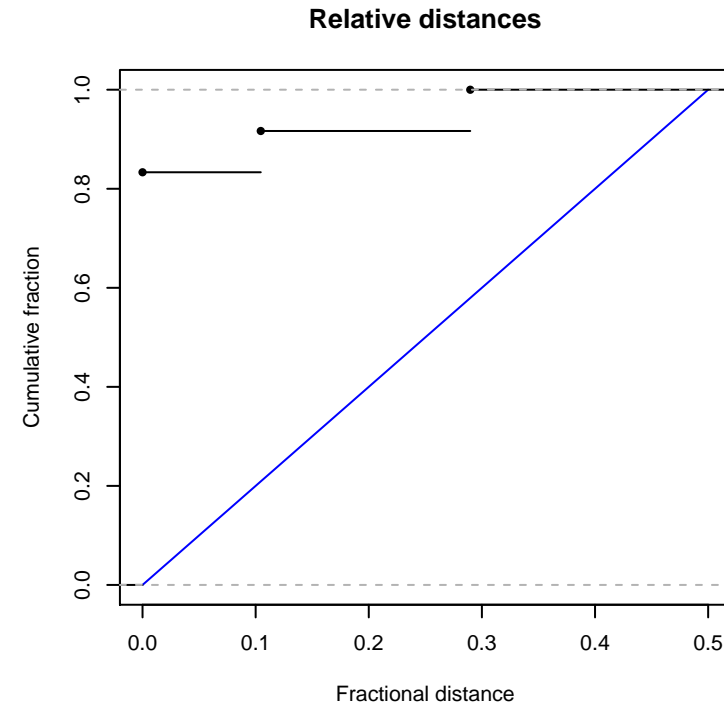
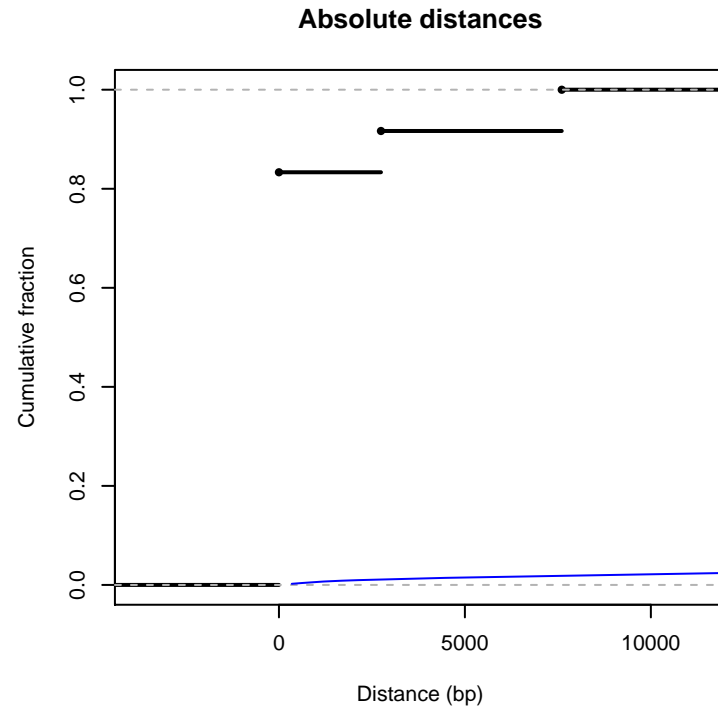
pcontig_149

Query population : 18
Reference population : 15
Relative Ks p-value : 2.13163e-14
Relative ecdf deviation area : 0.197917
Relative ecdf area correlation : 0.791923
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 139.638



pcontig_150

Query population : 12
Reference population : 10
Relative Ks p-value : 9.45771e-10
Relative ecdf deviation area : 0.217097
Relative ecdf area correlation : 0.868591
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 275.166



pcontig_152

Query population : 14
Reference population : 14
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 212.569

Absolute distances



Relative distances



pcontig_154

Query population : 6
Reference population : 6
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 667.451

Absolute distances

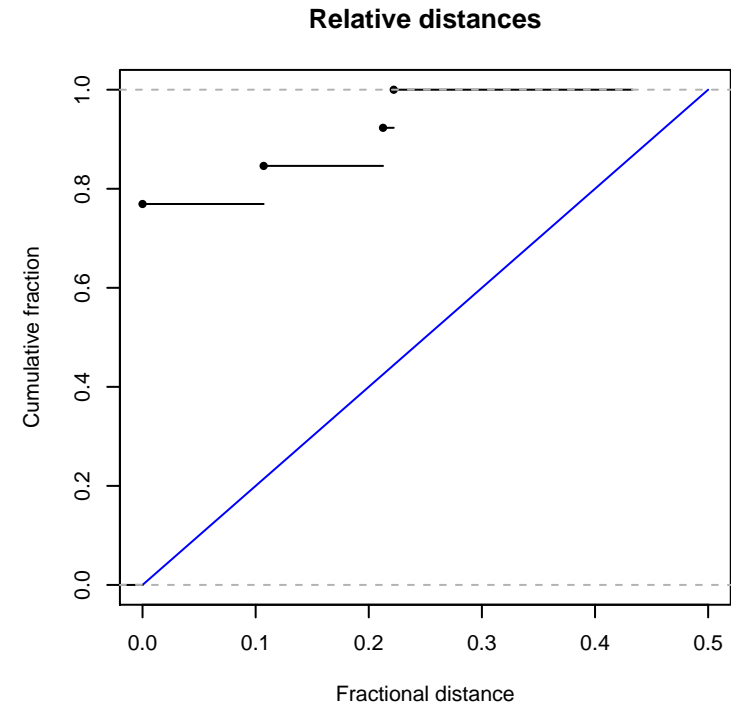
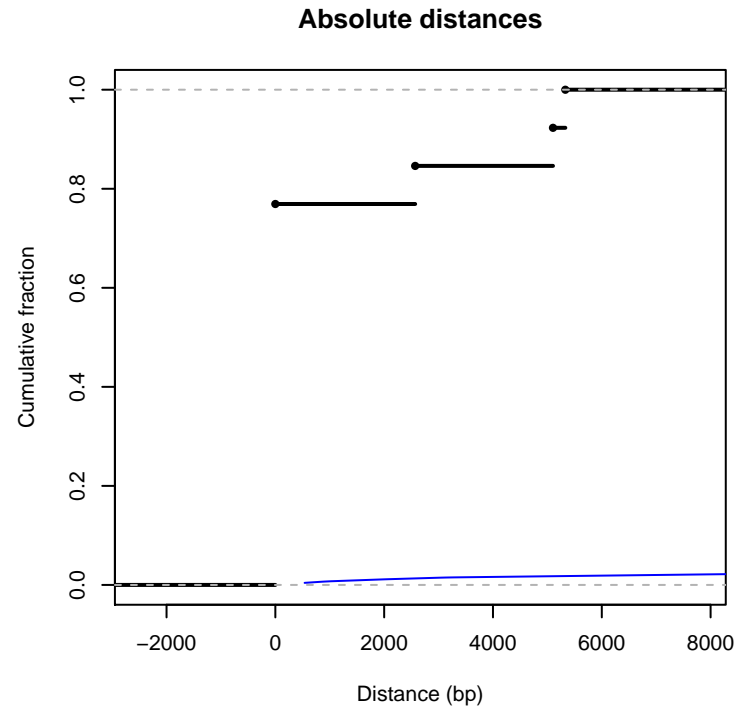


Relative distances



pcontig_157

Query population : 13
Reference population : 12
Relative Ks p-value : 1.41067e-08
Relative ecdf deviation area : 0.208905
Relative ecdf area correlation : 0.833316
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 161.563



pcontig_163

Query population : 8
Reference population : 8
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 215.865

Absolute distances



Relative distances



pcontig_164

Query population : 4
Reference population : 4
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1402.14

Absolute distances

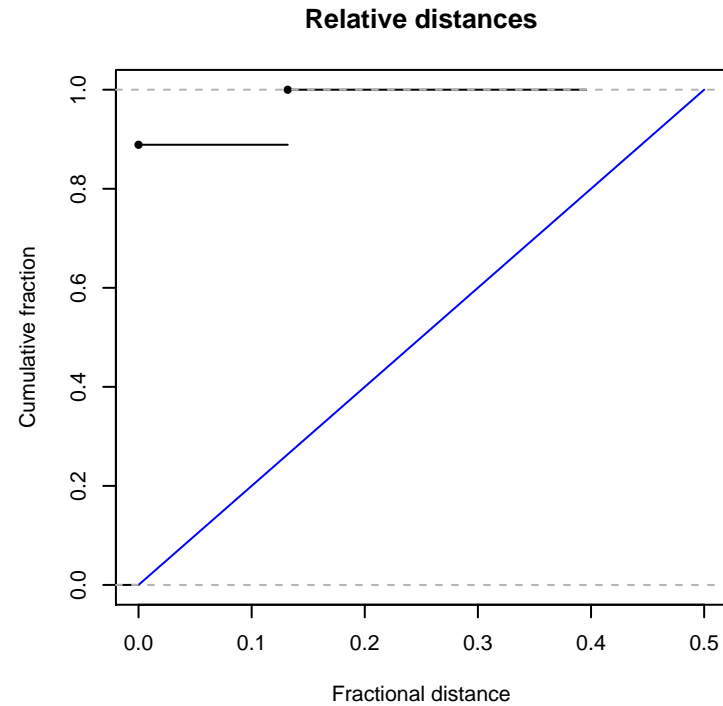
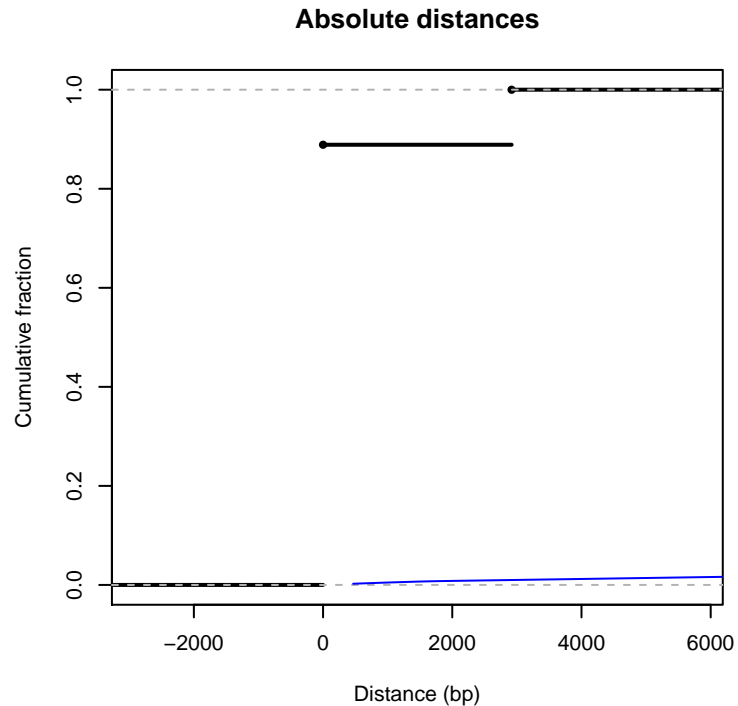


Relative distances



pcontig_165

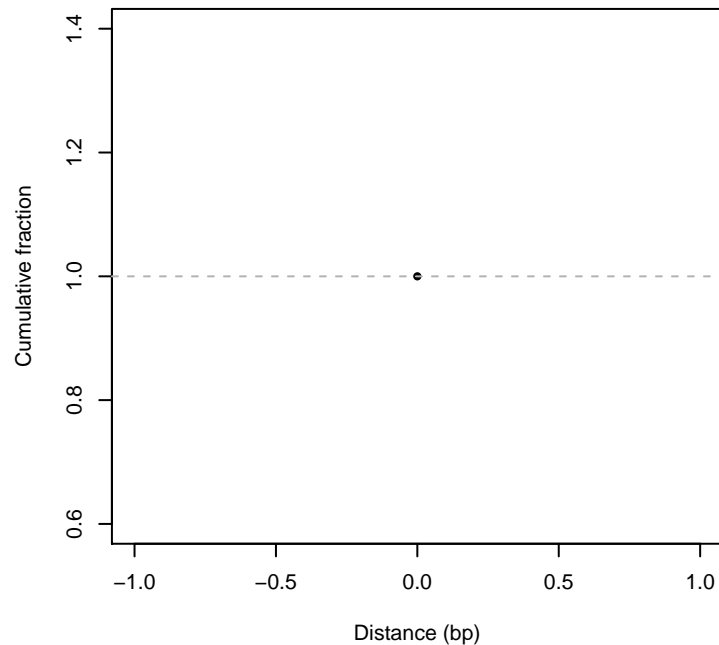
Query population : 9
Reference population : 8
Relative Ks p-value : 5.16242e-09
Relative ecdf deviation area : 0.235424
Relative ecdf area correlation : 0.941383
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 308.583



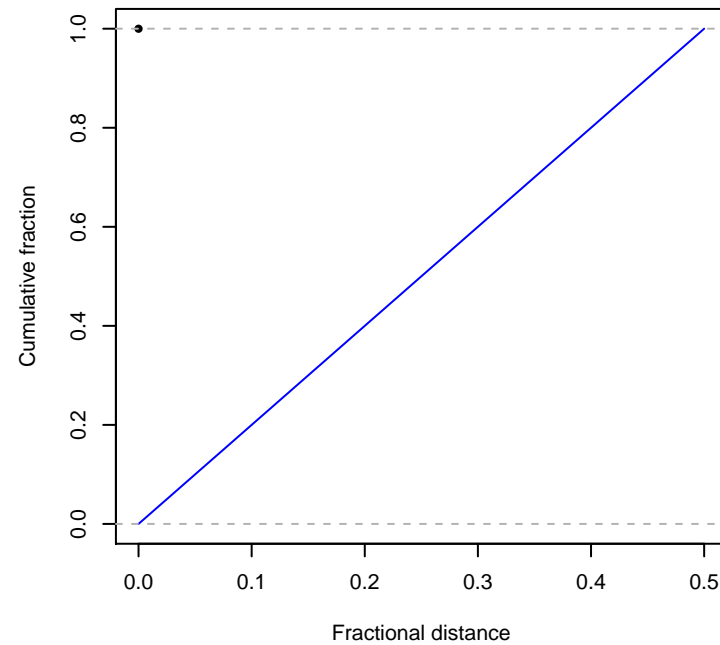
pcontig_166

Query population : 8
Reference population : 9
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 175.75

Absolute distances

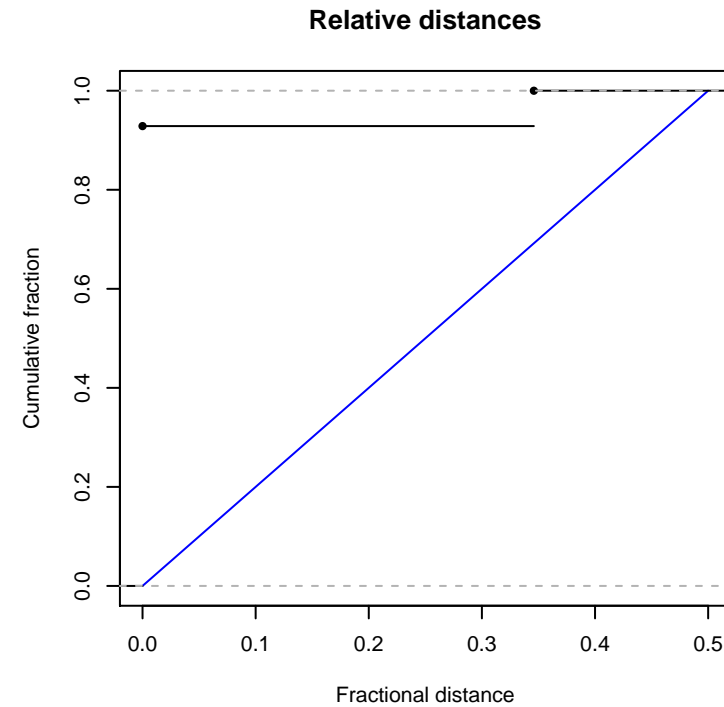
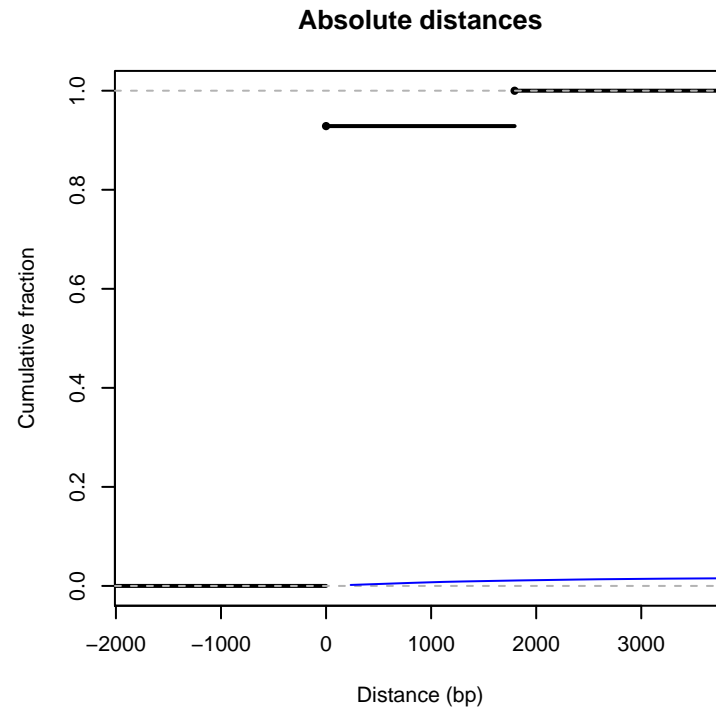


Relative distances



pcontig_170

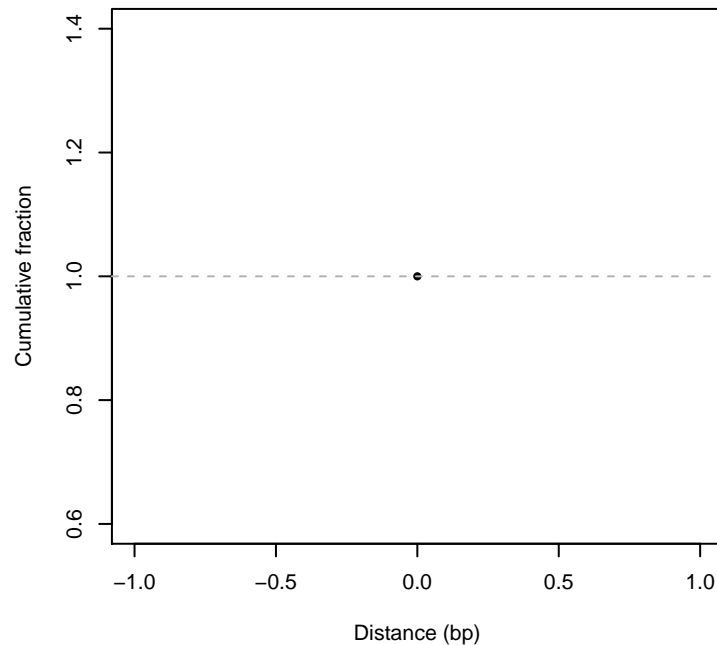
Query population : 14
Reference population : 13
Relative Ks p-value : 6.66134e-16
Relative ecdf deviation area : 0.225447
Relative ecdf area correlation : 0.901164
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 247.092



pcontig_171

Query population : 7
Reference population : 7
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 458.285

Absolute distances



Relative distances



pcontig_172

Query population : 3
Reference population : 3
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 802.48

Absolute distances

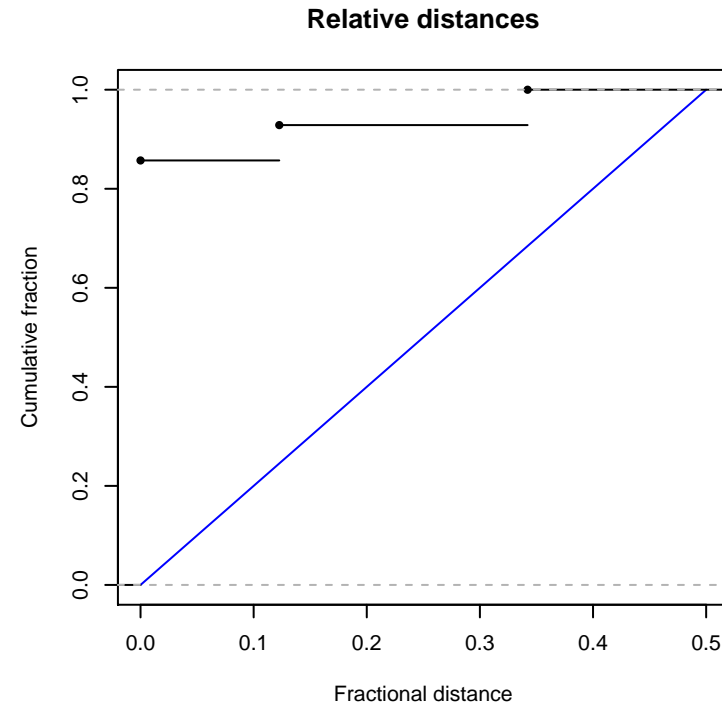
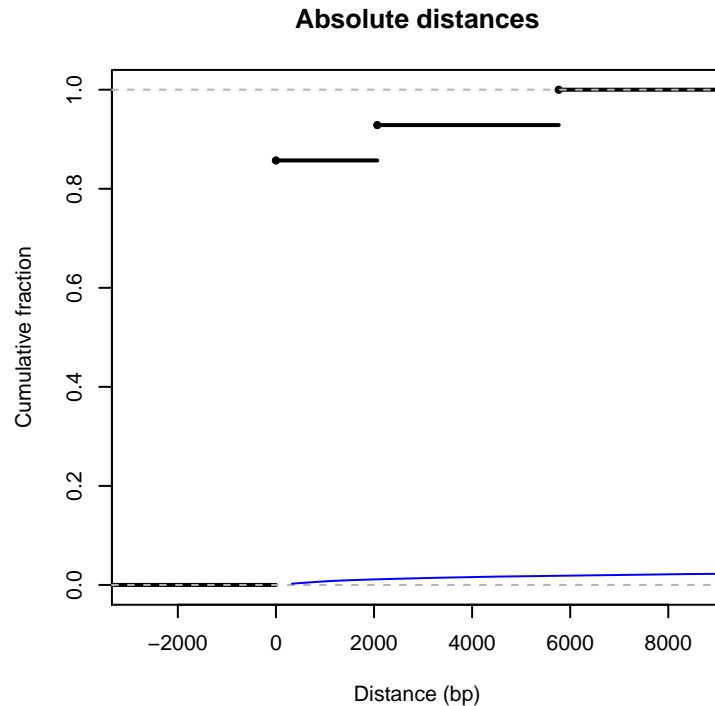


Relative distances



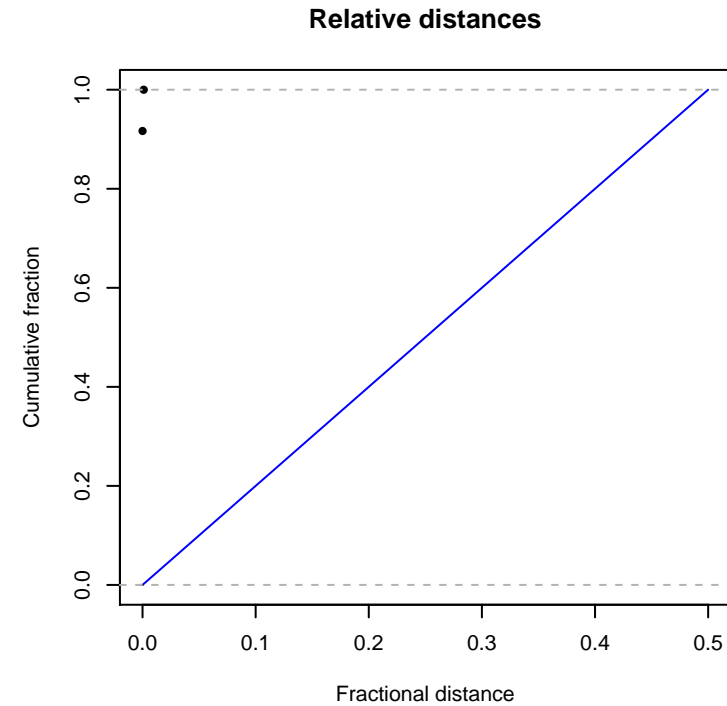
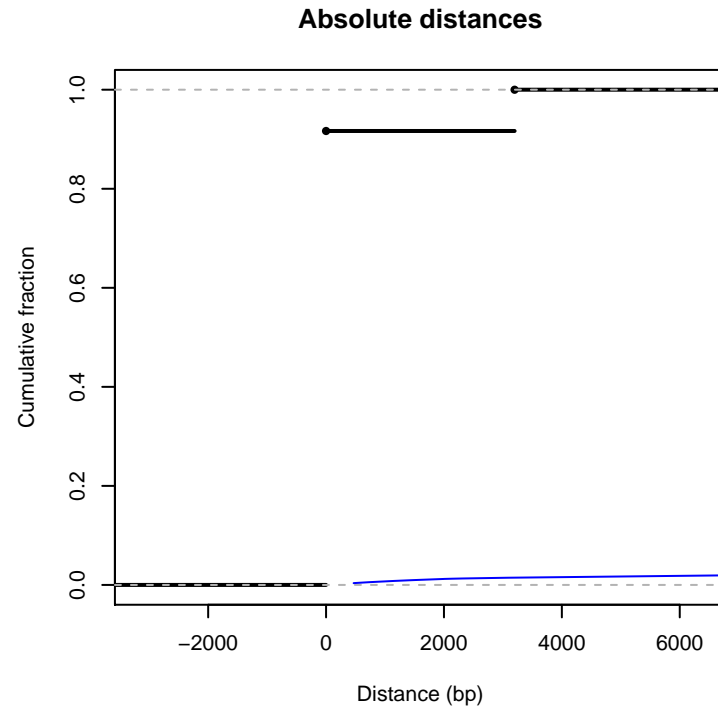
pcontig_173

Query population : 14
Reference population : 12
Relative Ks p-value : 2.97962e-12
Relative ecdf deviation area : 0.216739
Relative ecdf area correlation : 0.8672
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 216.925



pcontig_174

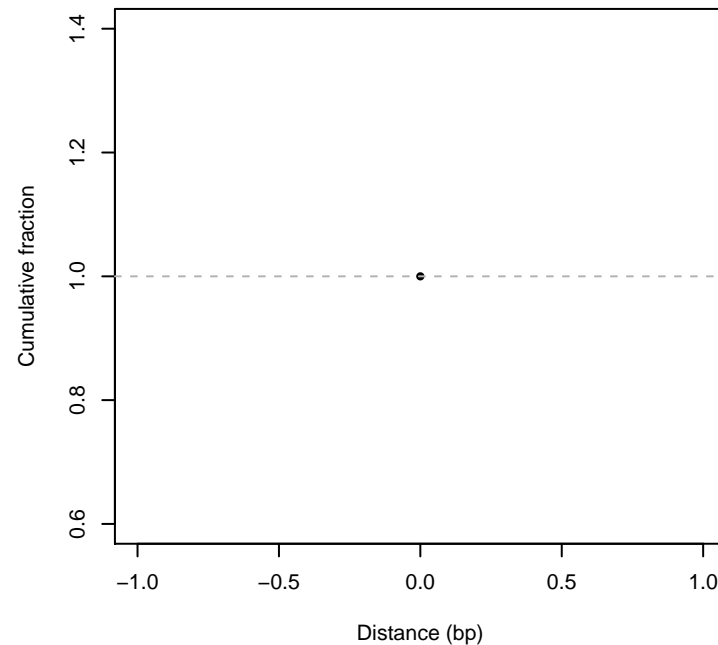
Query population : 12
Reference population : 12
Relative Ks p-value : 3.33067e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.999647
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 129.837



pcontig_176

Query population : 6
Reference population : 6
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 251.934

Absolute distances



Relative distances



pcontig_177

Query population : 4
Reference population : 4
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1221.97

Absolute distances



Relative distances



pcontig_179

Query population : 11
Reference population : 13
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 203.351

Absolute distances

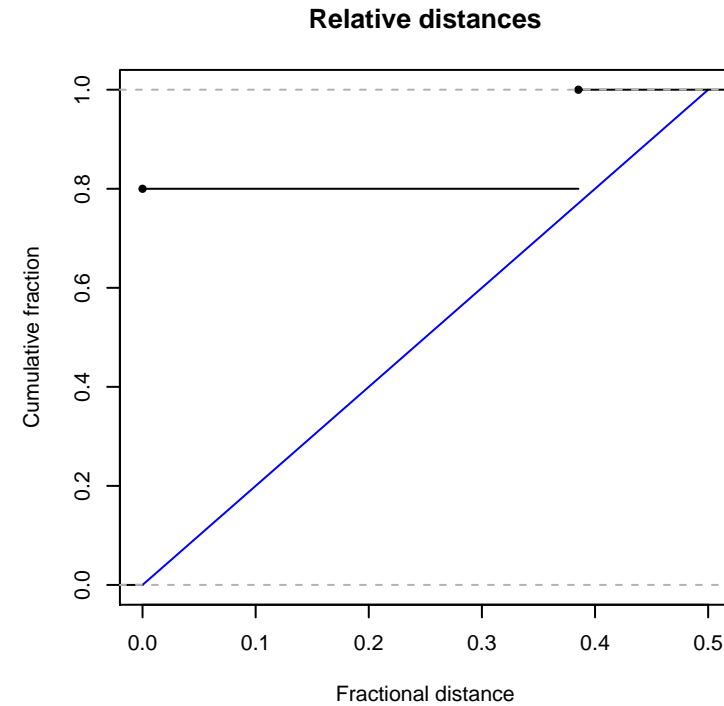
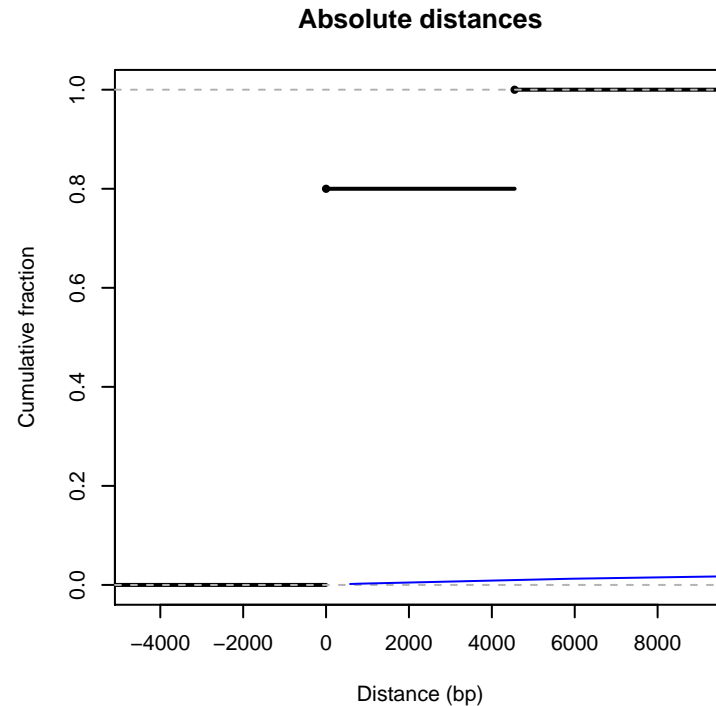


Relative distances



pcontig_181

Query population : 5
Reference population : 5
Relative Ks p-value : 0.000640008
Relative ecdf deviation area : 0.172824
Relative ecdf area correlation : 0.691768
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.88498e-14
Projection test lower tail : FALSE
Projection test observed to expected ratio : 367.453



pcontig_185

Query population : 4
Reference population : 4
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 620.771

Absolute distances

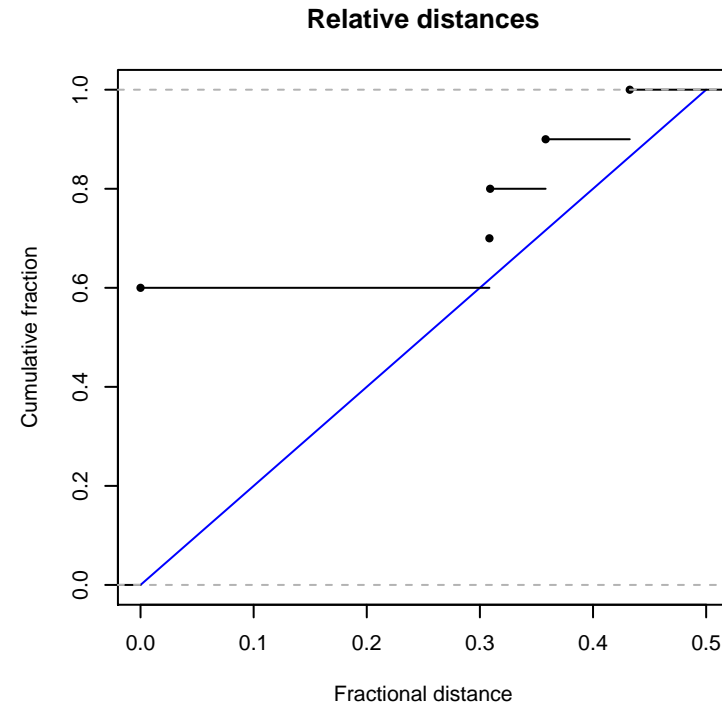
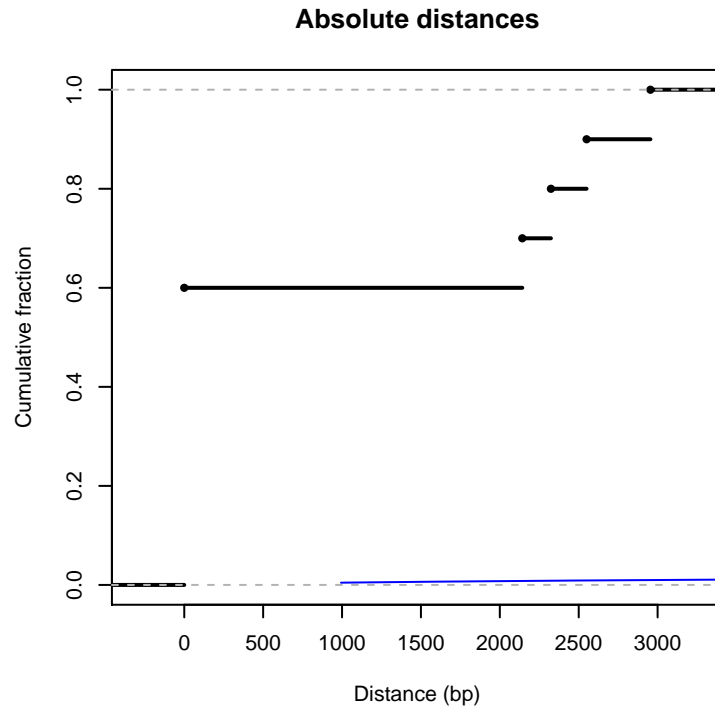


Relative distances



pcontig_186

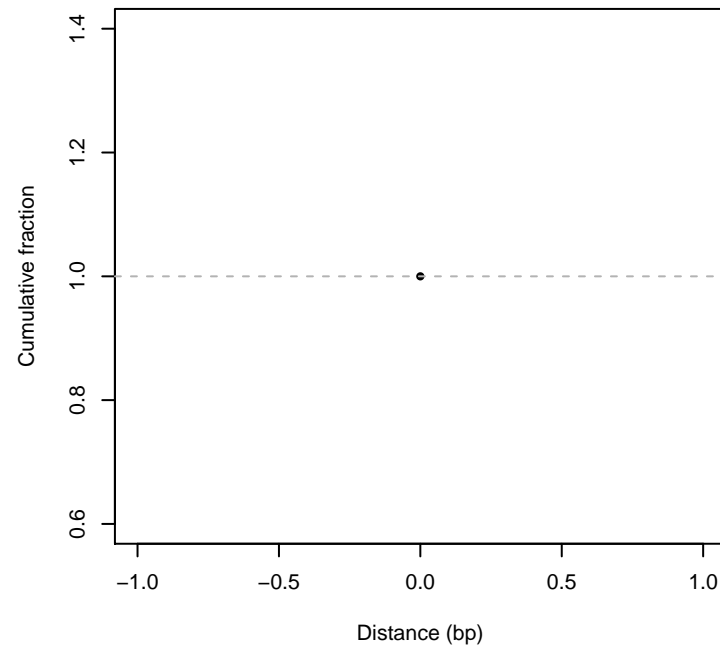
Query population : 10
Reference population : 7
Relative Ks p-value : 0.00056818
Relative ecdf deviation area : 0.107471
Relative ecdf area correlation : 0.436777
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 9.54792e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 119.34



pcontig_187

Query population : 4
Reference population : 5
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 547.811

Absolute distances

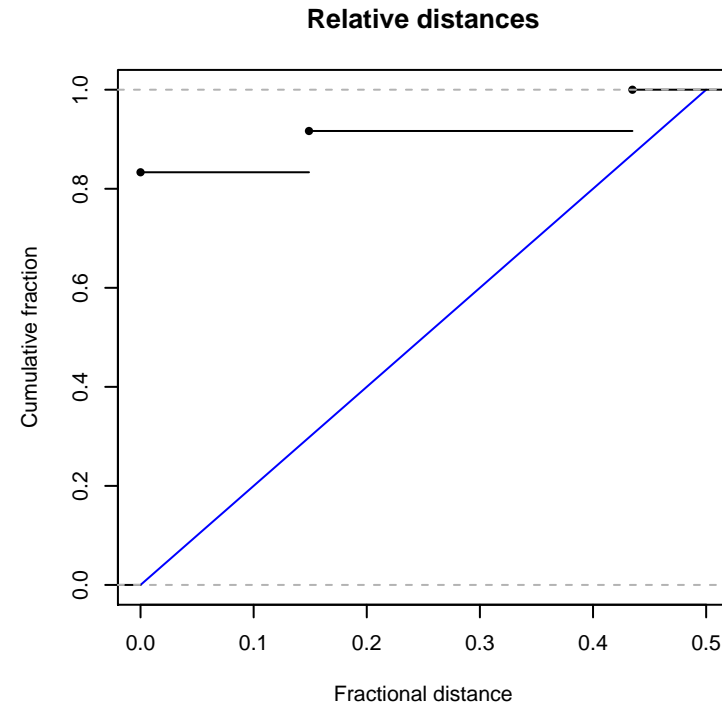
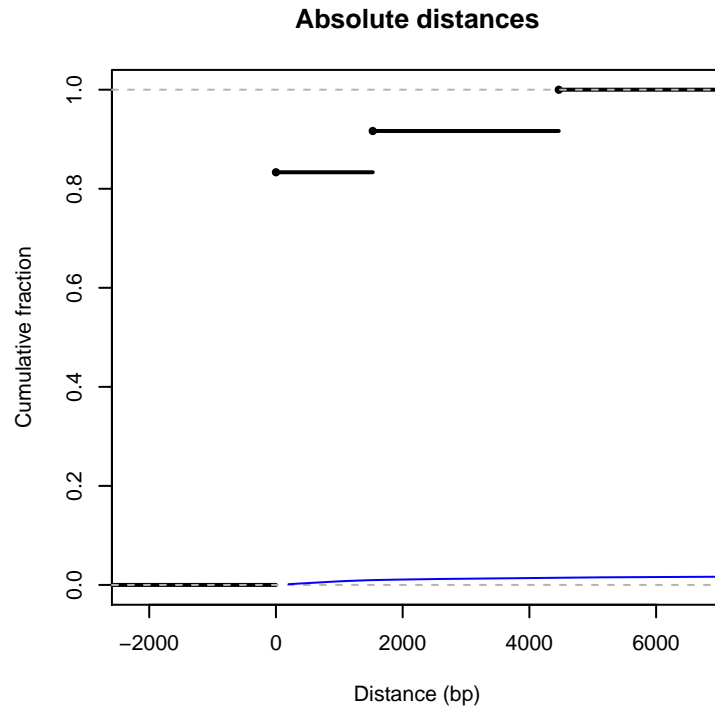


Relative distances



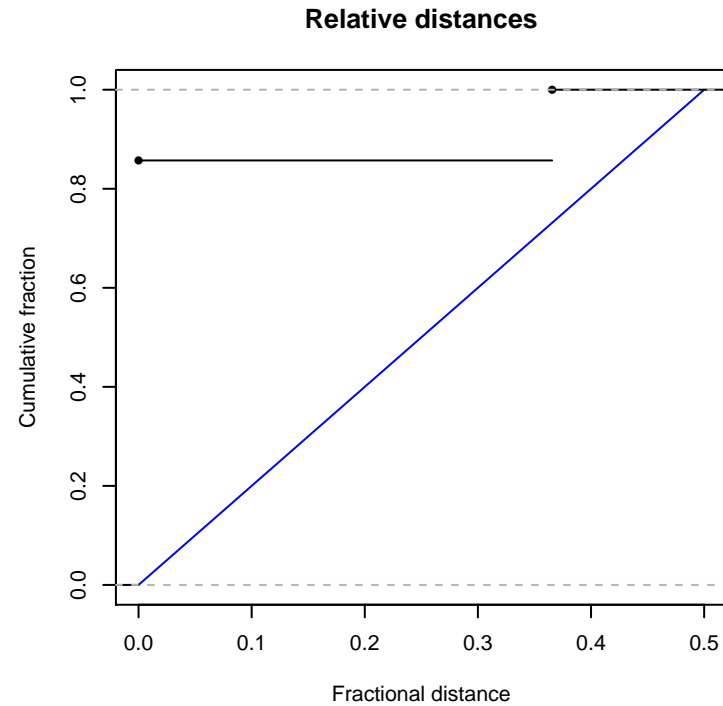
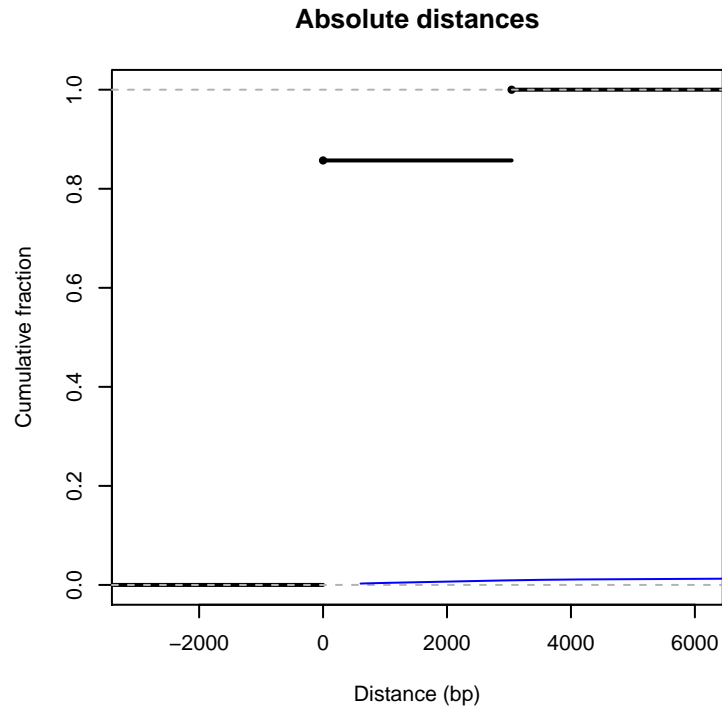
pcontig_188

Query population : 12
Reference population : 12
Relative Ks p-value : 9.45746e-10
Relative ecdf deviation area : 0.201489
Relative ecdf area correlation : 0.805423
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 122.322



pcontig_189

Query population : 7
Reference population : 7
Relative Ks p-value : 2.42865e-06
Relative ecdf deviation area : 0.197983
Relative ecdf area correlation : 0.791087
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 186.659



pcontig_191

Query population : 2
Reference population : 2
Relative Ks p-value : 5.77316e-15
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2040.15

Absolute distances



Relative distances



pcontig_193

Query population : 1
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6433.33

Absolute distances



Relative distances



pcontig_195

Query population : 11
Reference population : 11
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 187.191

Absolute distances



Relative distances



pcontig_200

Query population : 10
Reference population : 10
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 318.455

Absolute distances



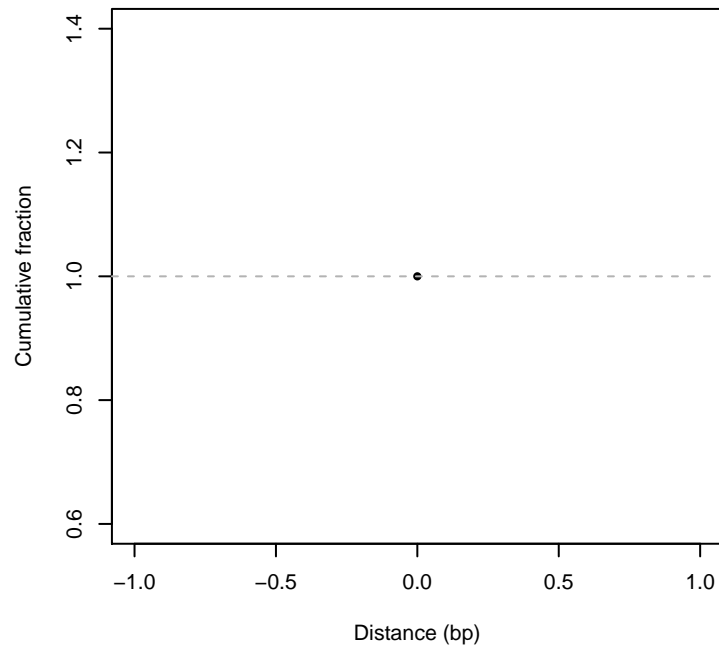
Relative distances



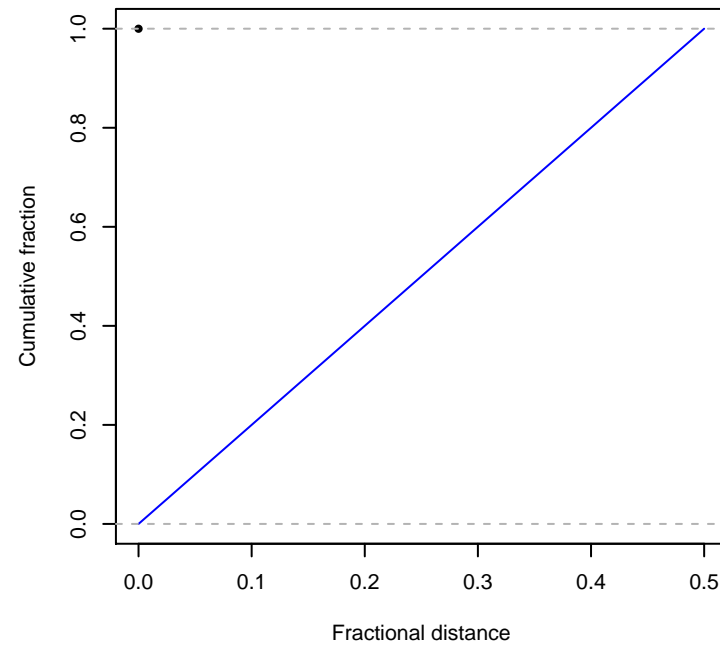
pcontig_202

Query population : 1
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2415.03

Absolute distances

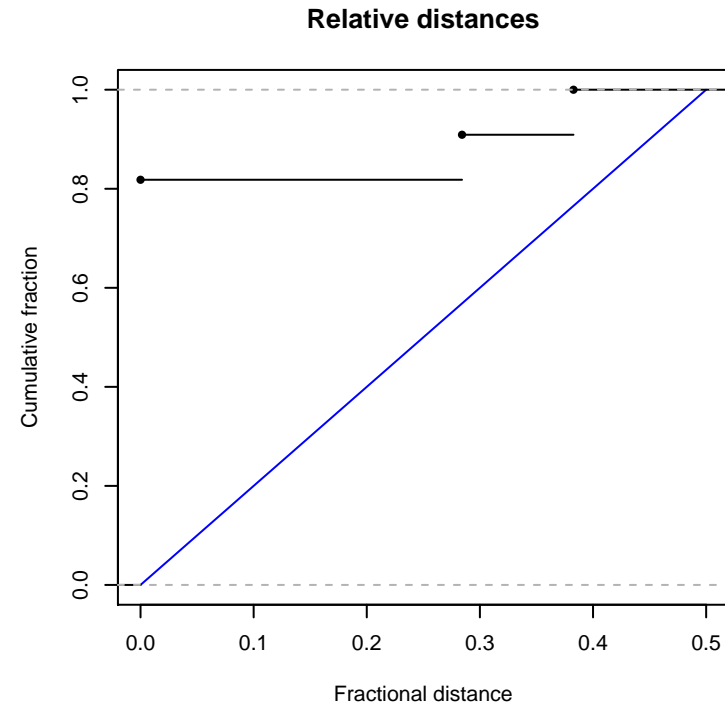
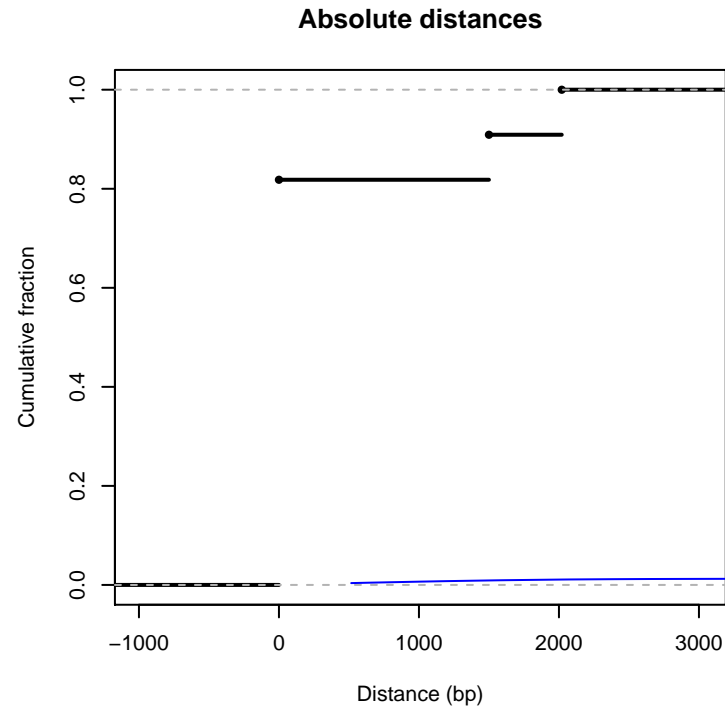


Relative distances



pcontig_203

Query population : 11
Reference population : 11
Relative Ks p-value : 1.5051e-08
Relative ecdf deviation area : 0.189582
Relative ecdf area correlation : 0.757484
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 145.668



pcontig_204

Query population : 8
Reference population : 8
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 507.67

Absolute distances



Relative distances



pcontig_205

Query population : 1
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 15703.9

Absolute distances

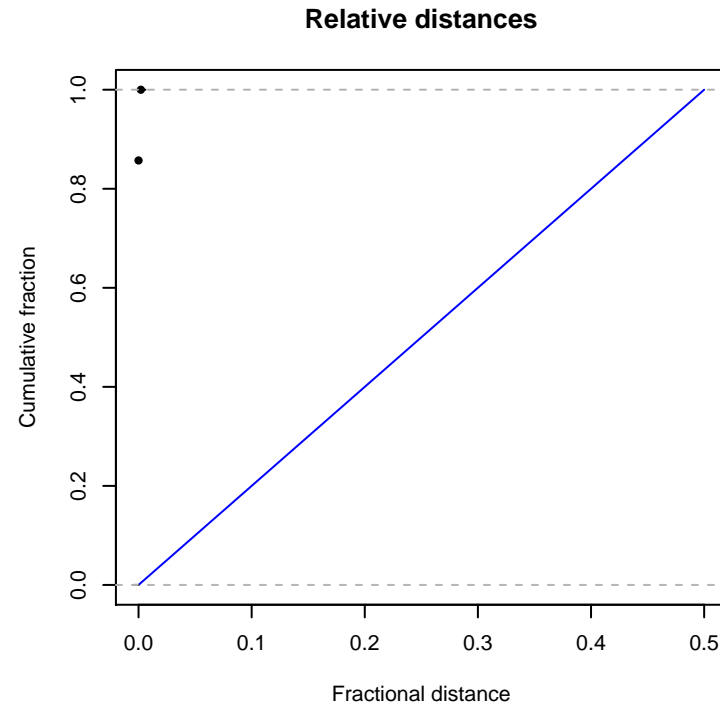
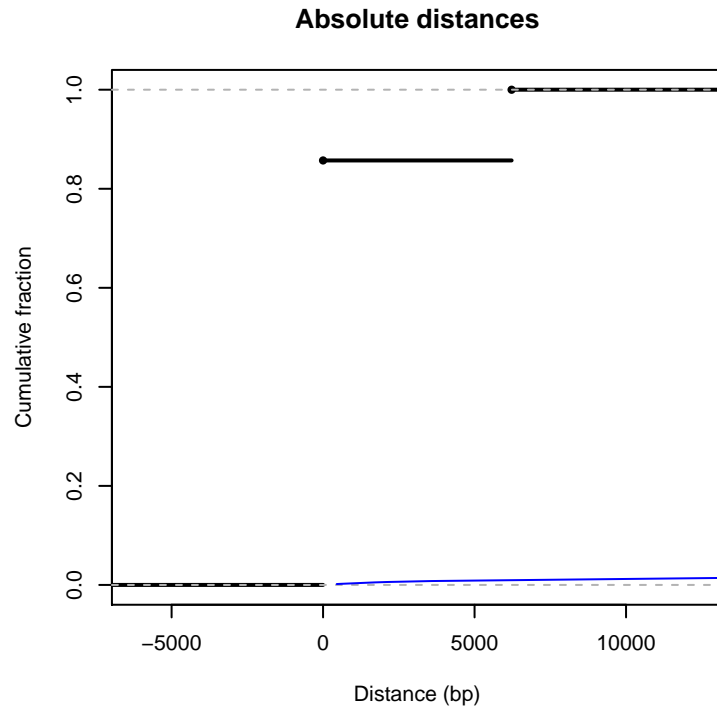


Relative distances



pcontig_207

Query population : 7
Reference population : 6
Relative Ks p-value : 5.55112e-16
Relative ecdf deviation area : 0.249605
Relative ecdf area correlation : 0.998832
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 403.877



pcontig_214

Query population : 3
Reference population : 3
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1309.22

Absolute distances



Relative distances



pcontig_218

Query population : 4
Reference population : 5
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 632.046

Absolute distances



Relative distances



pcontig_221

Query population : 4
Reference population : 4
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 511.571

Absolute distances



Relative distances



pcontig_223

Query population : 10
Reference population : 10
Relative Ks p-value : 0
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 280.916

Absolute distances



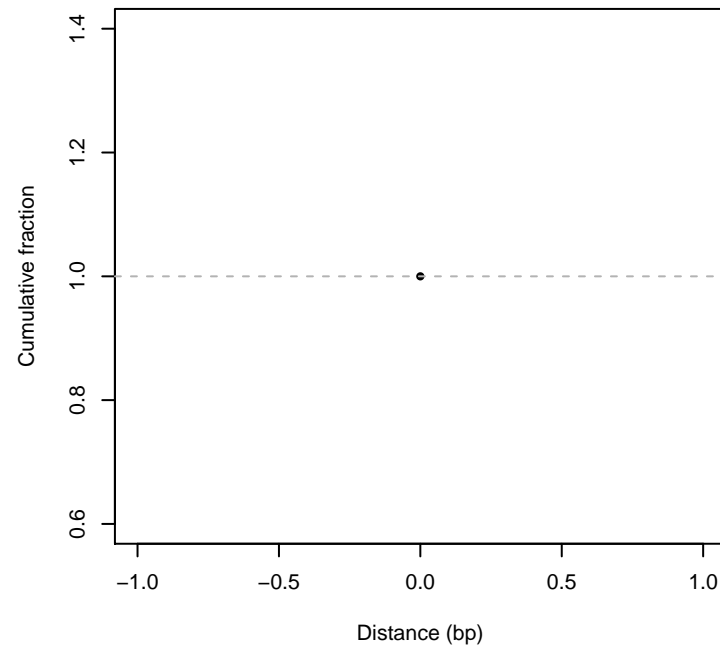
Relative distances



pcontig_225

Query population : 9
Reference population : 9
Relative Ks p-value : 4.44089e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 300.428

Absolute distances

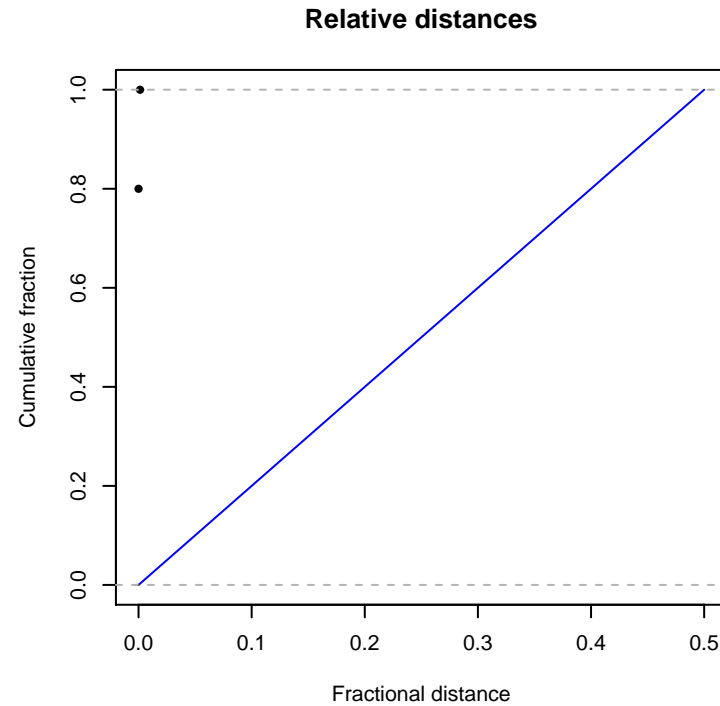
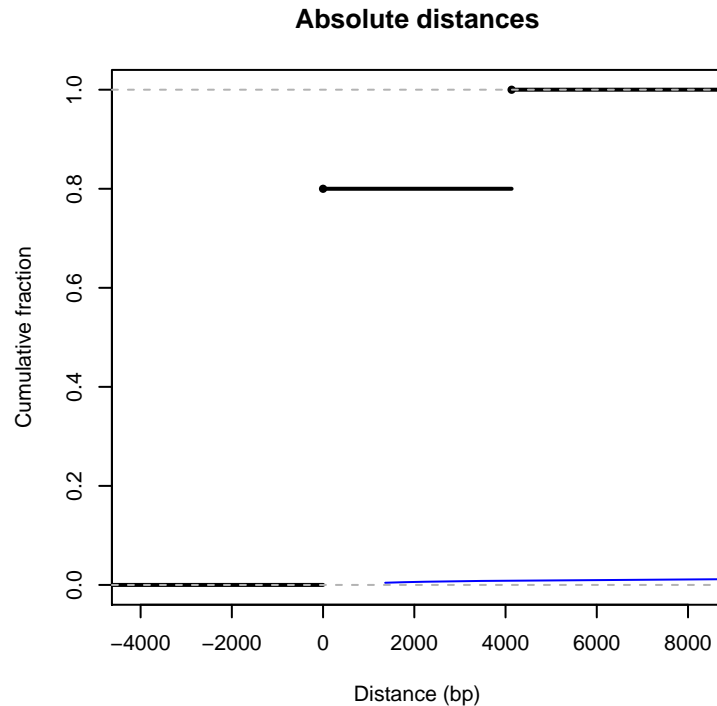


Relative distances



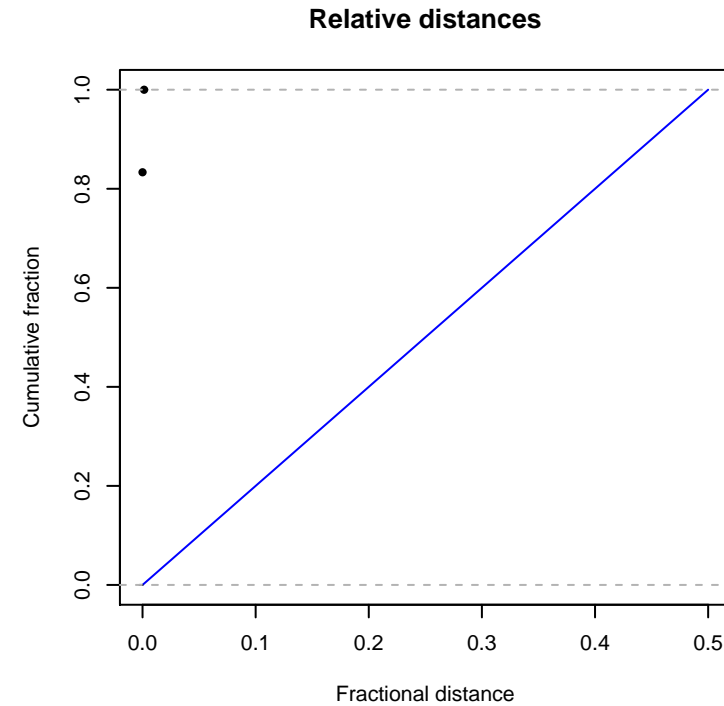
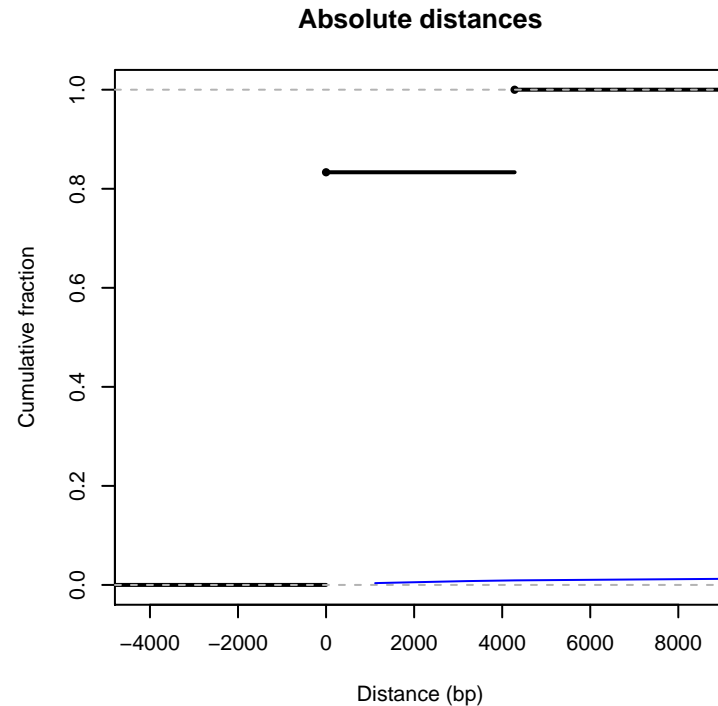
pcontig_233

Query population : 5
Reference population : 5
Relative Ks p-value : 2.95208e-13
Relative ecdf deviation area : 0.249854
Relative ecdf area correlation : 0.998914
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.17679e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 209.207



pcontig_235

Query population : 6
Reference population : 5
Relative Ks p-value : 8.88178e-16
Relative ecdf deviation area : 0.249878
Relative ecdf area correlation : 0.999062
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 606.725



pcontig_248

Query population : 7
Reference population : 7
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 1
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 245.158

Absolute distances



Relative distances



All Chromosomes

Query population : 14484
Reference population : 14354
Relative Ks p-value : 0
Relative ecdf deviation area : 0.215406
Relative ecdf area correlation : 0.861521
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 17.7471

