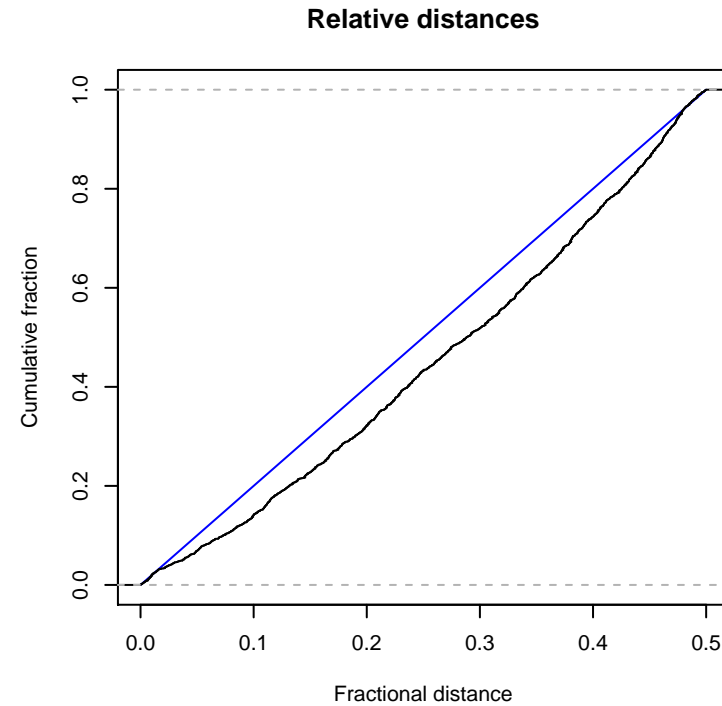
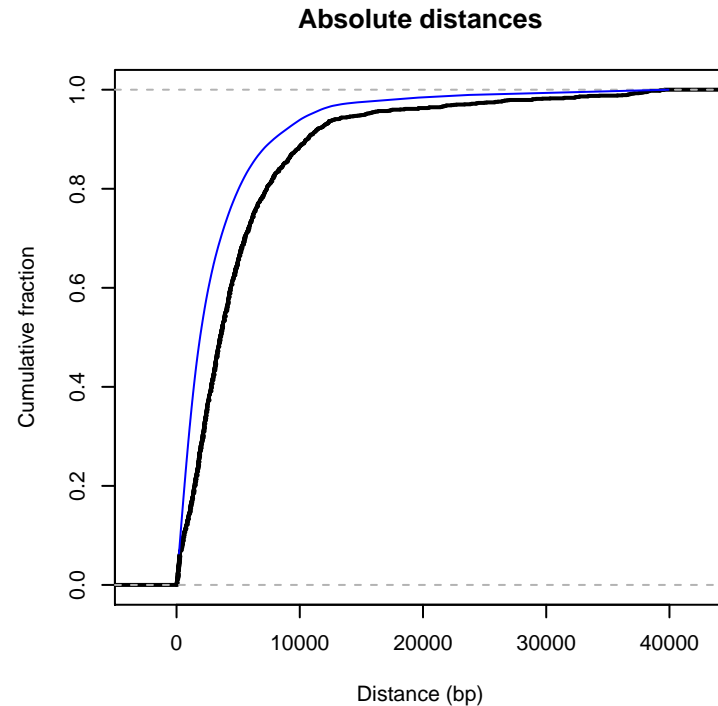


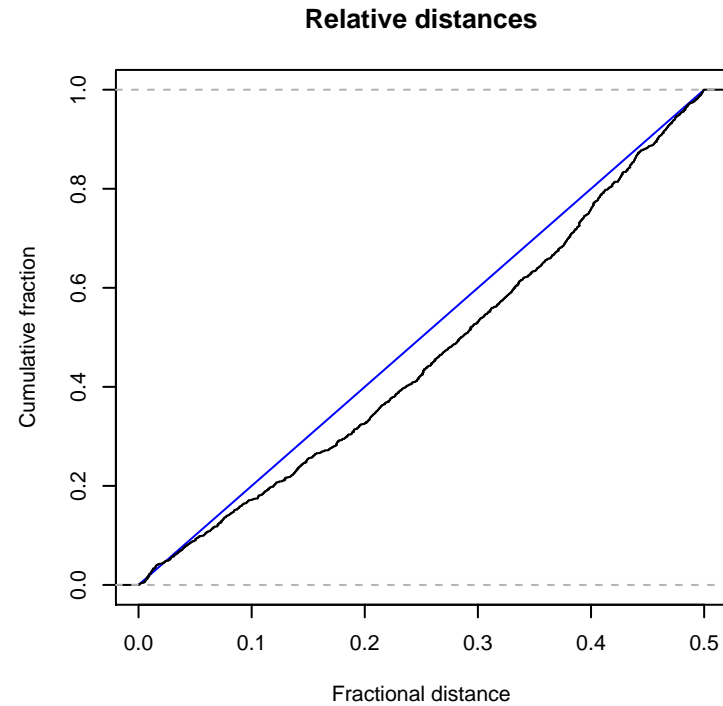
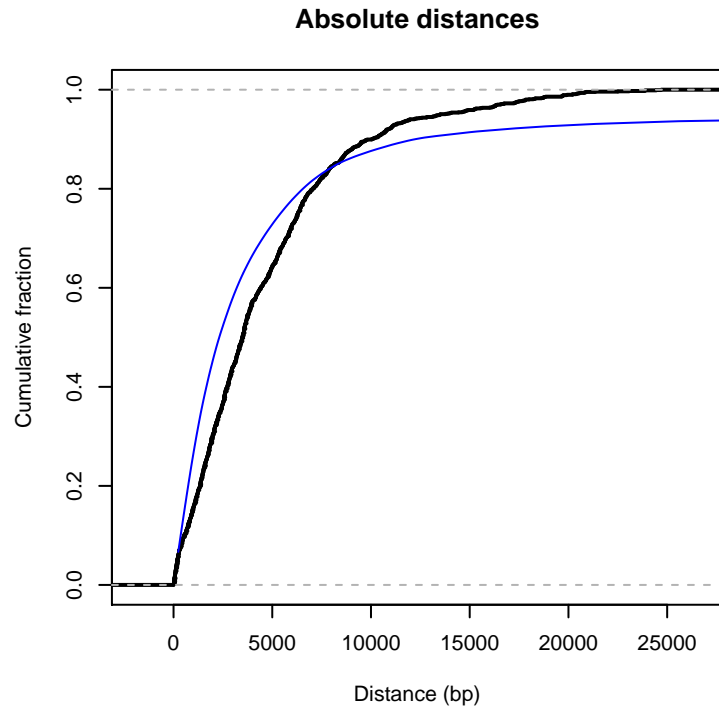
pcontig_000

Query population : 1836
Reference population : 487
Relative Ks p-value : 5.80047e-12
Relative ecdf deviation area : 0.0275253
Relative ecdf area correlation : -0.10996
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : FALSE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 4.11103e-61
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.375602



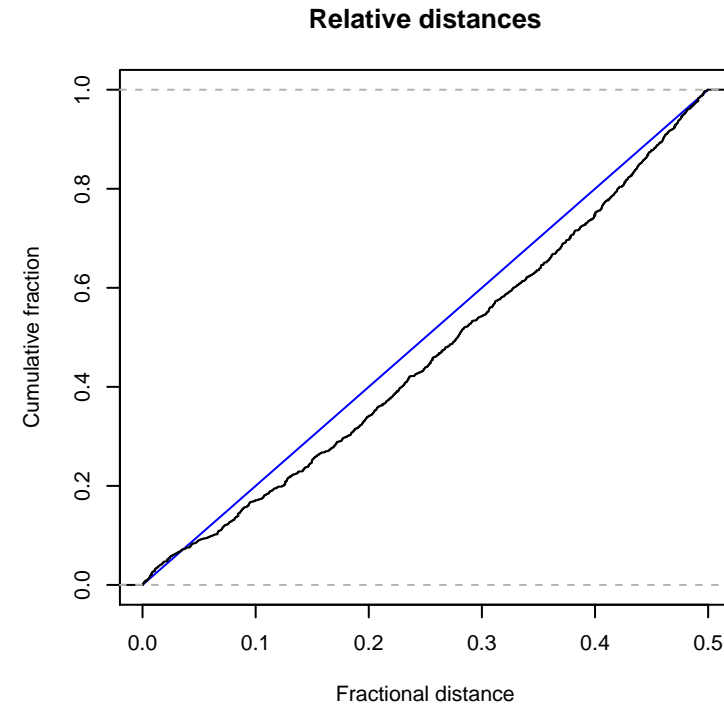
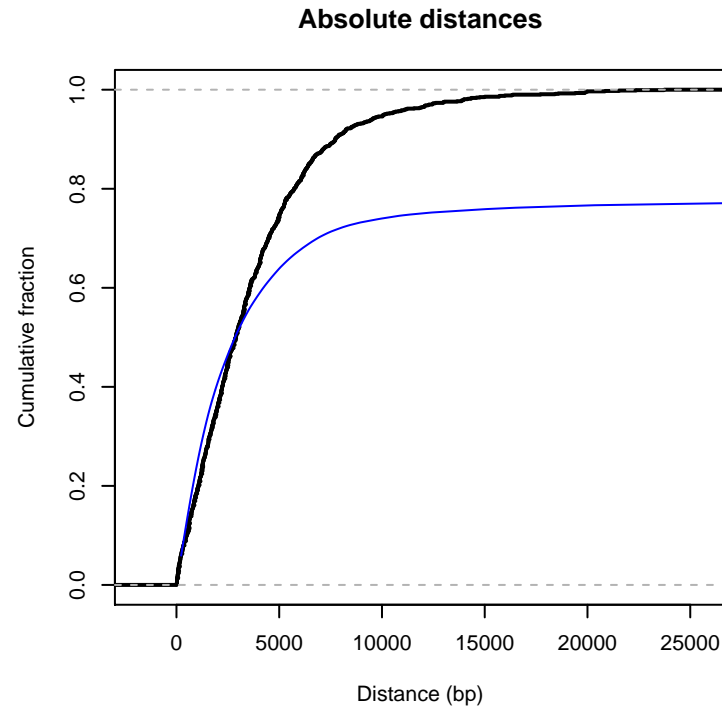
pcontig_001

Query population : 1560
Reference population : 427
Relative Ks p-value : $3.77123\text{e-}09$
Relative ecdf deviation area : 0.0212515
Relative ecdf area correlation : -0.0853142
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 : TRUE
Projection test p-value : $2.07023\text{e-}31$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.468088



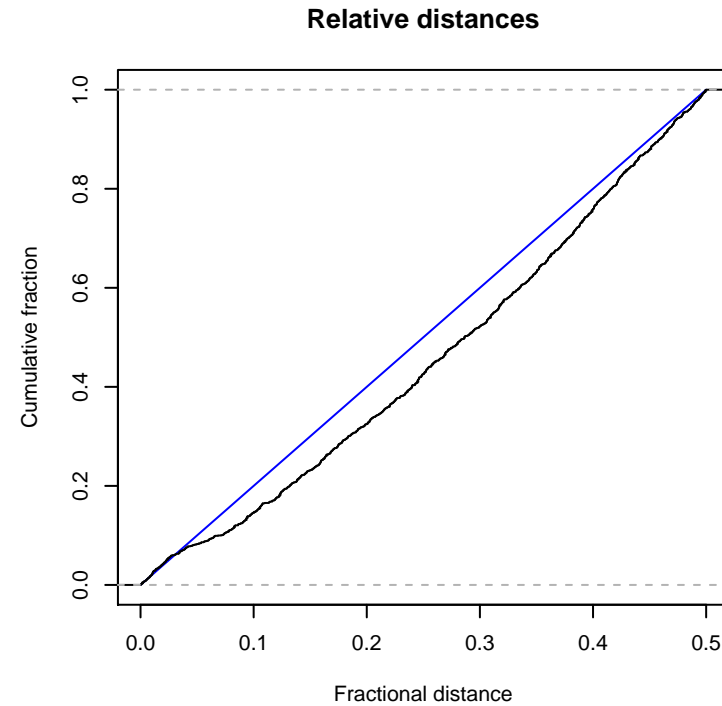
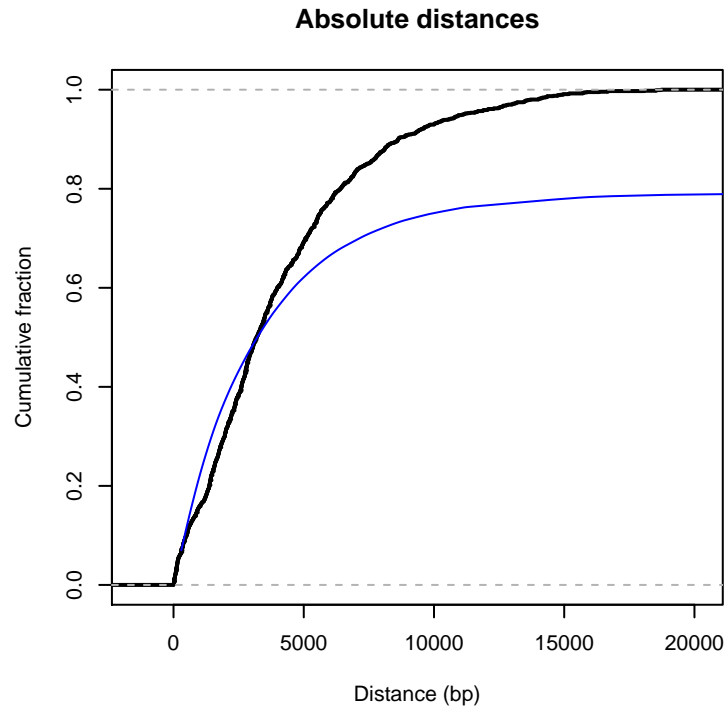
pcontig_002

Query population : 1204
Reference population : 400
Relative Ks p-value : $7.15787\text{e-}05$
Relative ecdf deviation area : 0.0206926
Relative ecdf area correlation : -0.080221
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 : TRUE
Projection test p-value : $3.98738\text{e-}22$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.496003



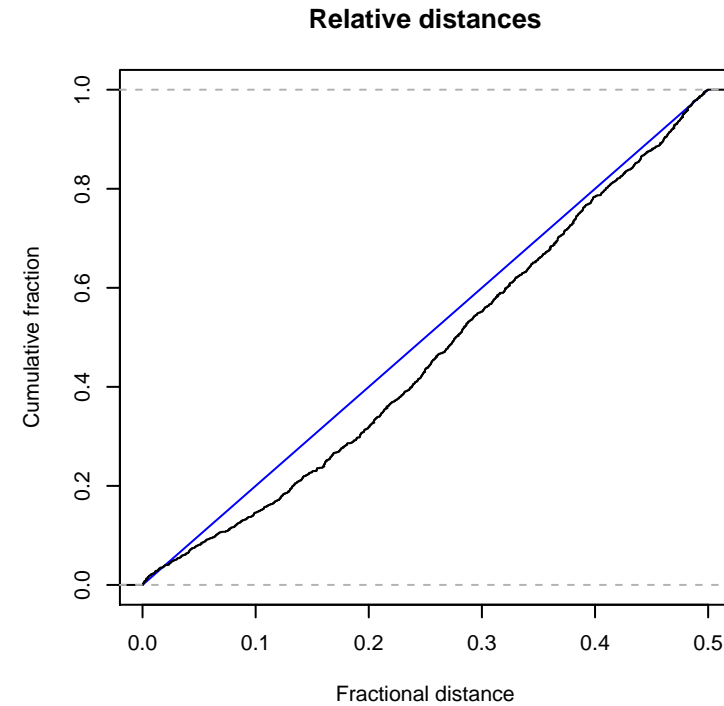
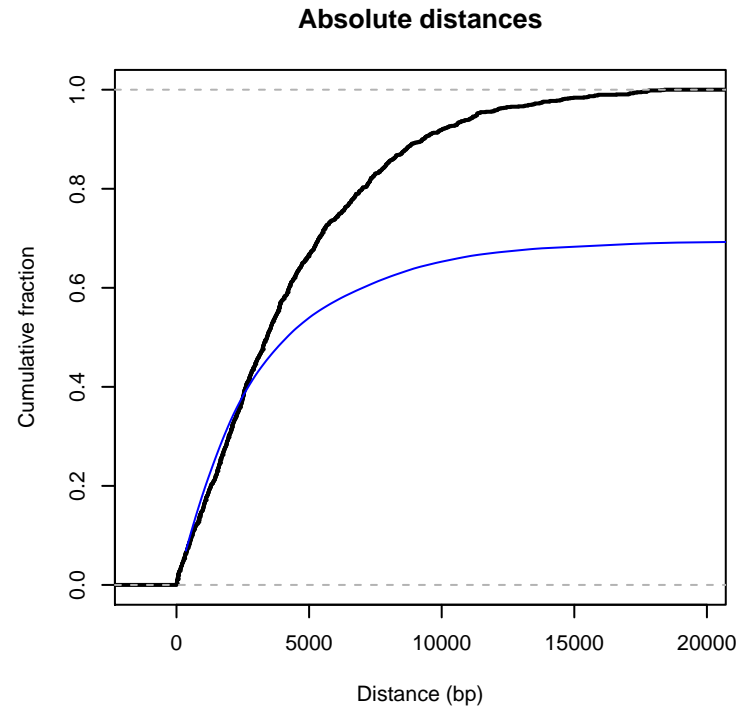
pcontig_003

Query population : 1462
Reference population : 360
Relative Ks p-value : 2.68612e-09
Relative ecdf deviation area : 0.0245255
Relative ecdf area correlation : -0.0982222
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 : TRUE
Projection test p-value : 3.7865e-16
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.553549



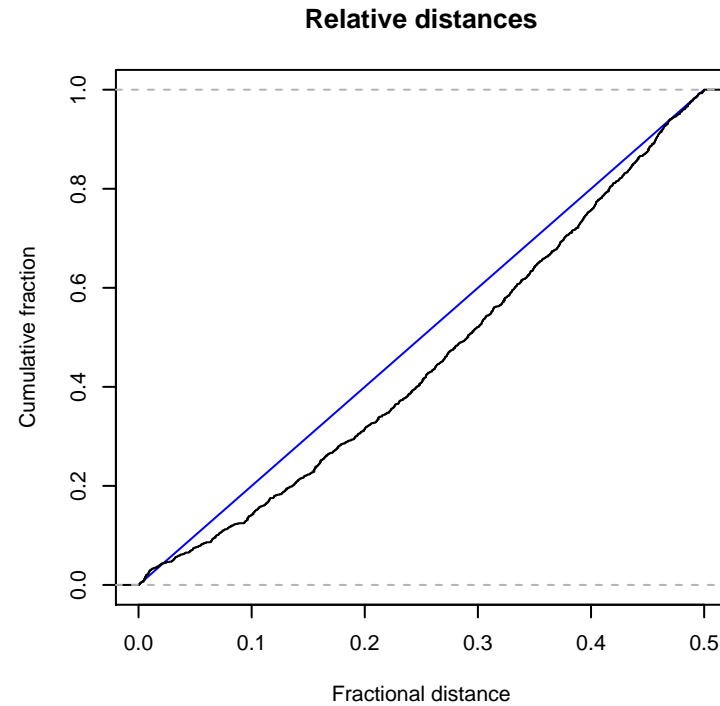
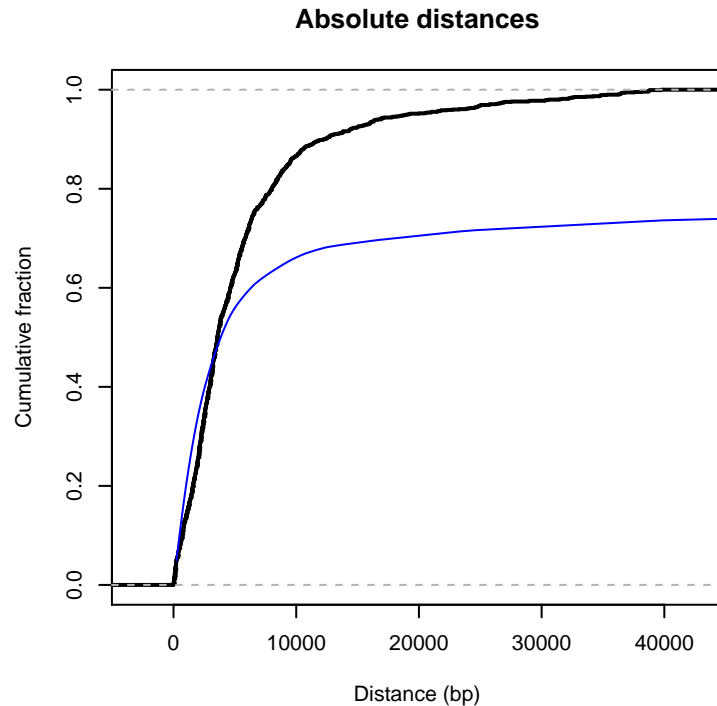
pcontig_004

Query population : 1370
Reference population : 300
Relative Ks p-value : 3.14341e-09
Relative ecdf deviation area : 0.0211782
Relative ecdf area correlation : -0.0841468
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 : TRUE
Projection test p-value : 7.31852e-14
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.569179



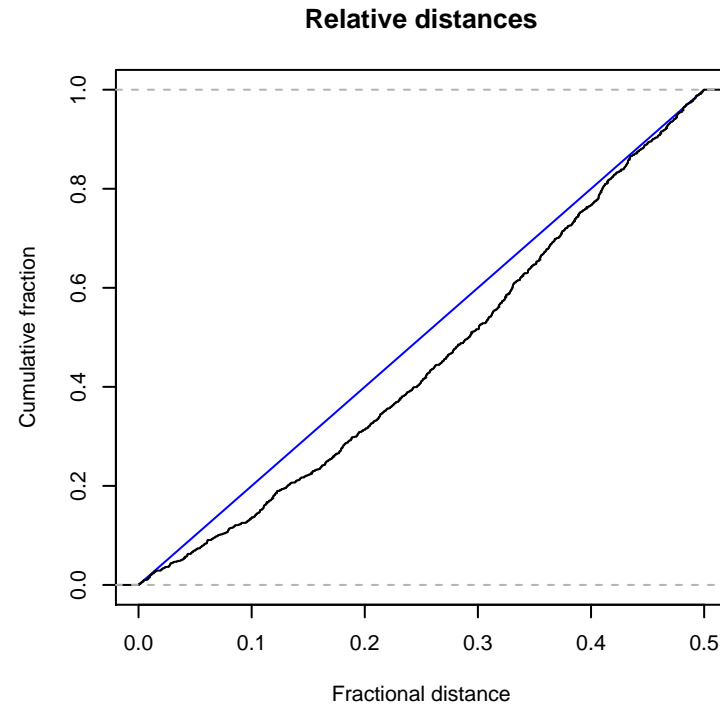
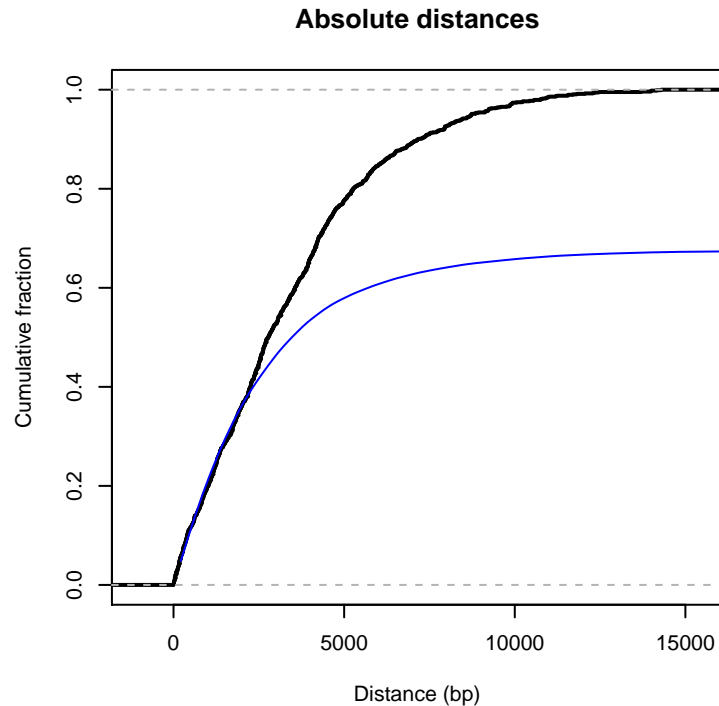
pcontig_005

Query population : 1300
Reference population : 318
Relative Ks p-value : $1.20241\text{e-}10$
Relative ecdf deviation area : 0.0264104
Relative ecdf area correlation : -0.105097
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 : TRUE
Projection test p-value : $1.44456\text{e-}20$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.4845



pcontig_006

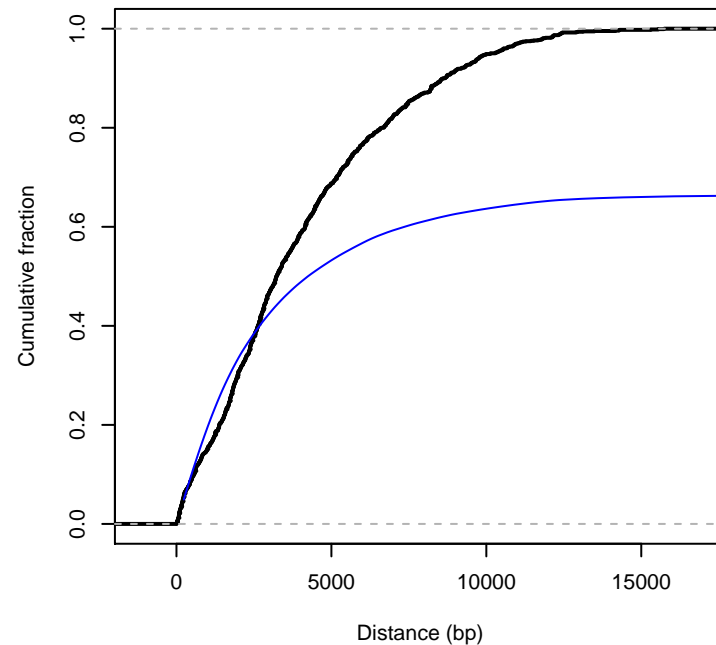
Query population : 1069
Reference population : 347
Relative Ks p-value : 2.17214×10^{-8}
Relative ecdf deviation area : 0.0252592
Relative ecdf area correlation : -0.101237
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 9.36978×10^{-6}
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.71949



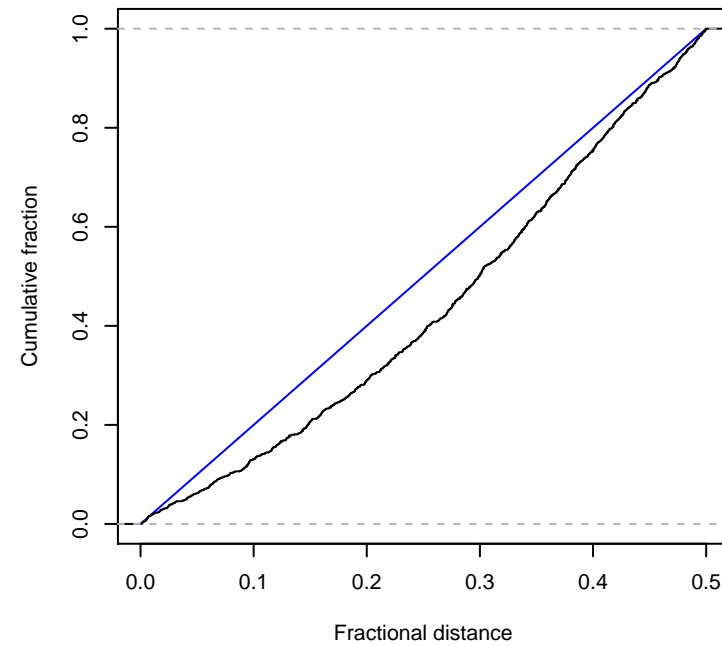
pcontig_007

Query population : 1310
Reference population : 320
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.0338471
Relative ecdf area correlation : -0.133799
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 : TRUE
Projection test p-value : 5.06268e-15
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.534122

Absolute distances

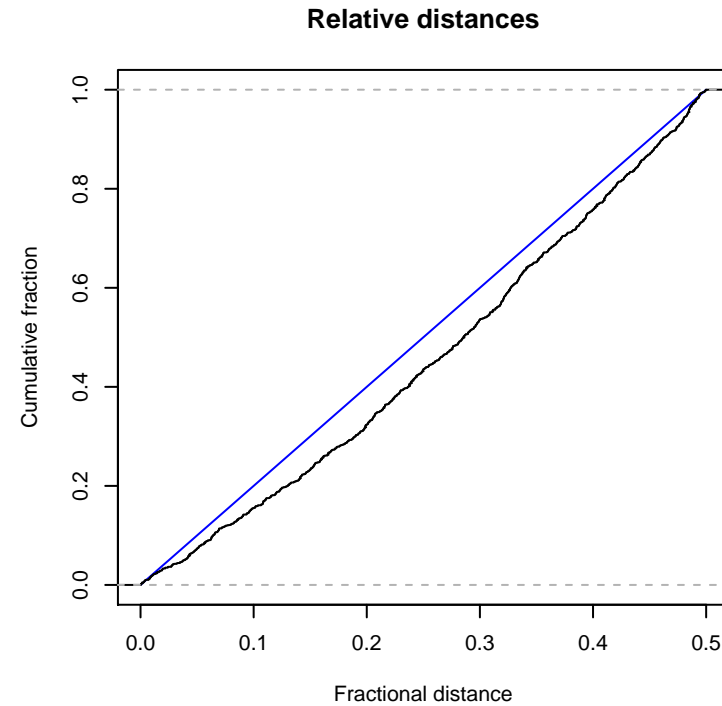
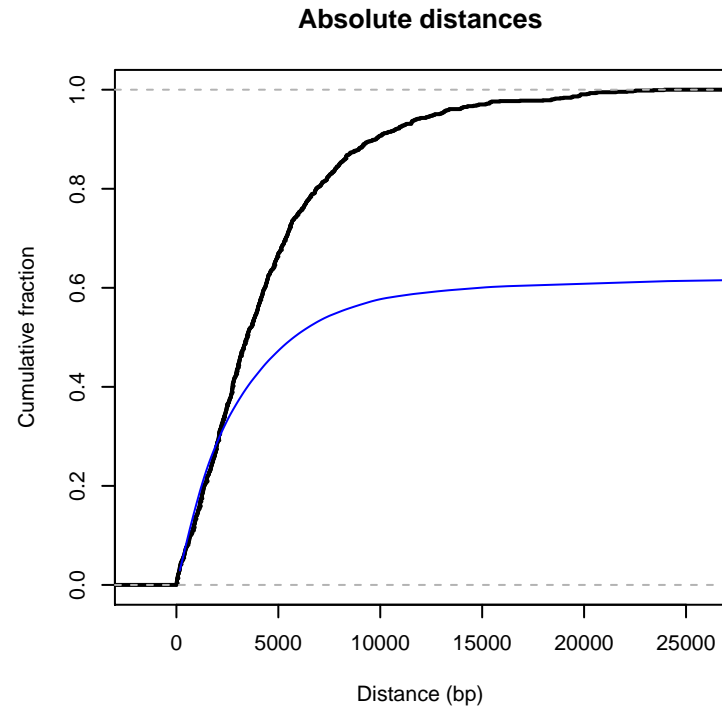


Relative distances



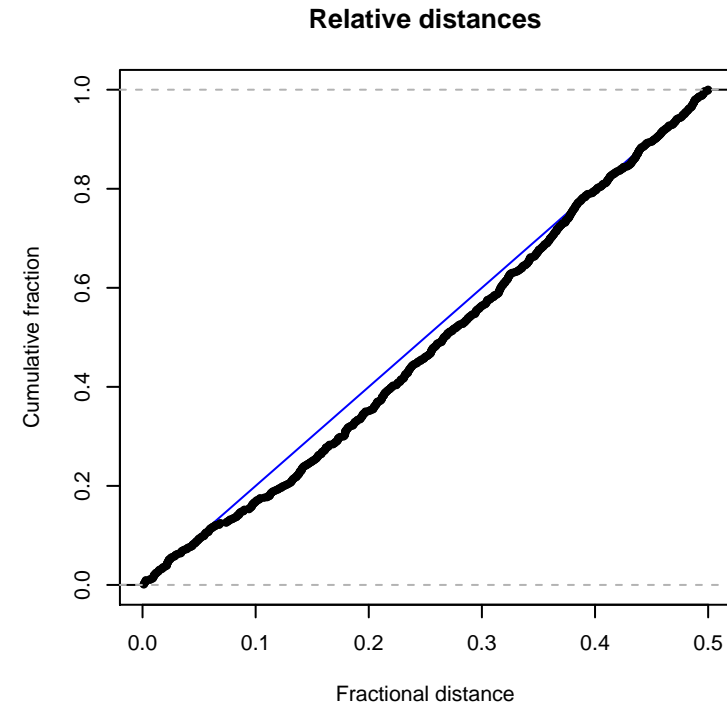
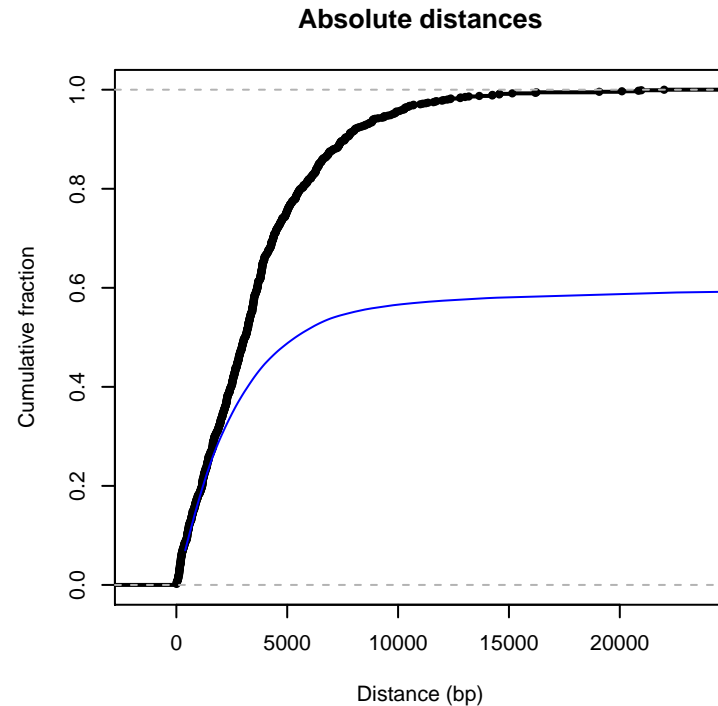
pcontig_008

Query population : 1175
Reference population : 267
Relative Ks p-value : 2.47332e-07
Relative ecdf deviation area : 0.0235791
Relative ecdf area correlation : -0.0949365
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 : TRUE
Projection test p-value : 1.48538e-13
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.515139



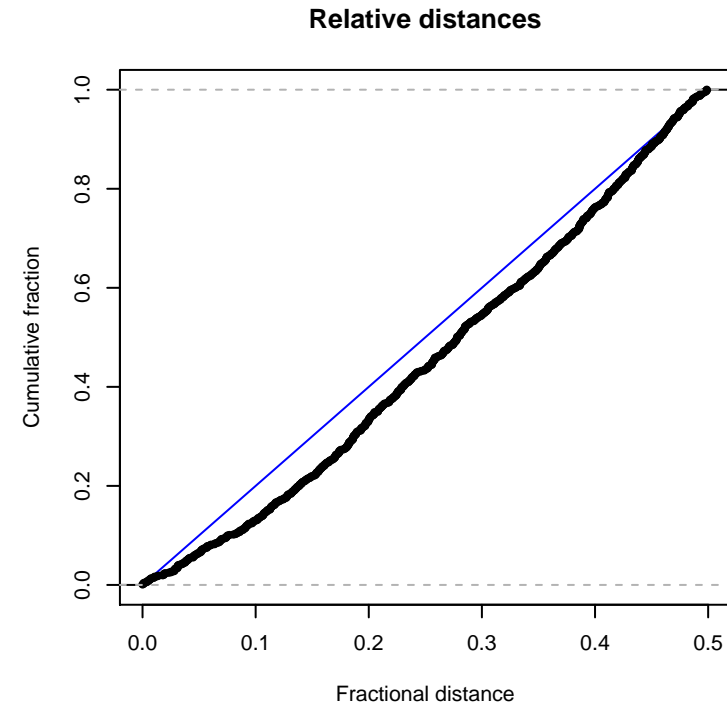
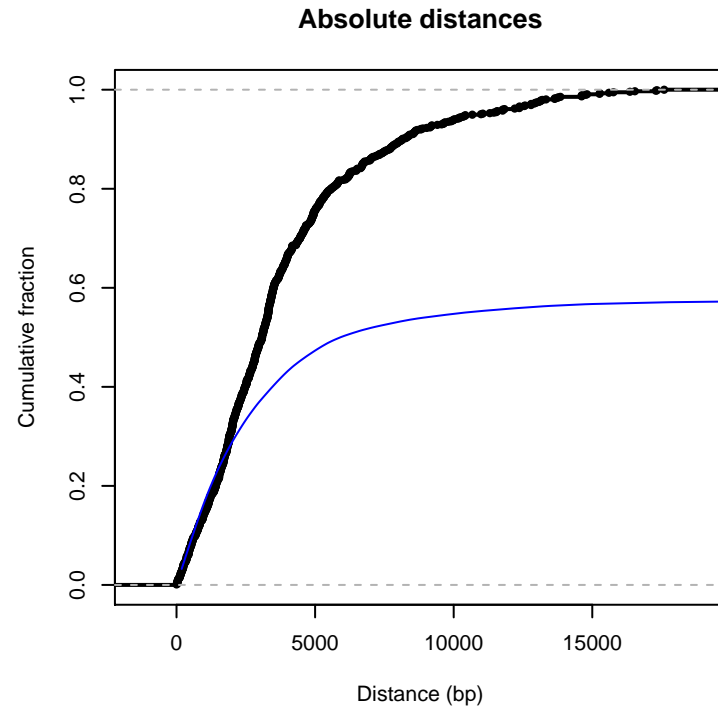
pcontig_009

Query population : 954
Reference population : 269
Relative Ks p-value : 0.00370196
Relative ecdf deviation area : 0.0126397
Relative ecdf area correlation : -0.0504131
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 : 0.5
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.345032
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.02513



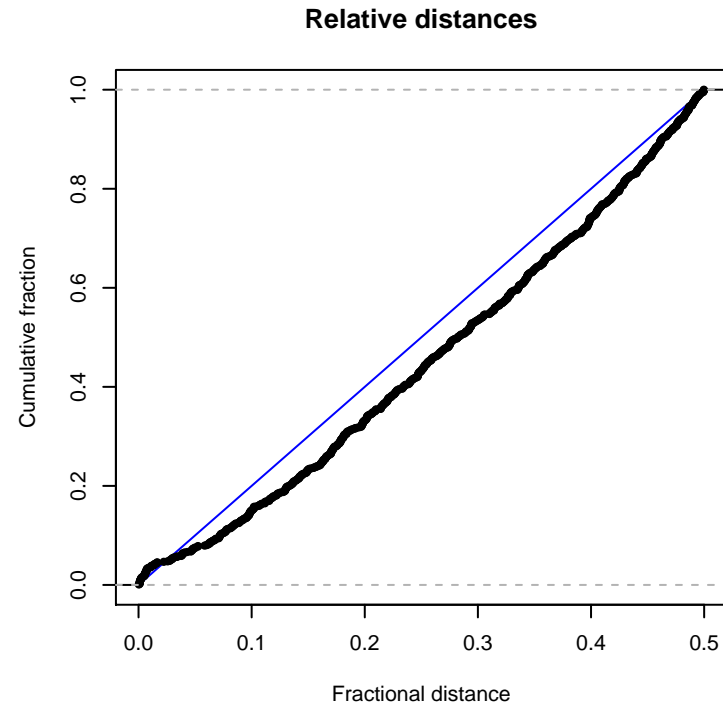
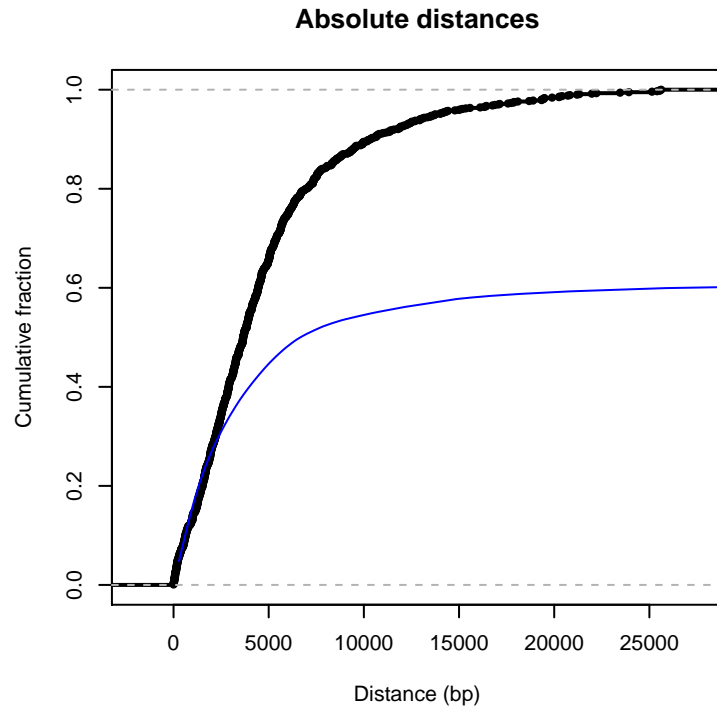
pcontig_010

Query population : 972
Reference population : 267
Relative Ks p-value : 2.09221e-06
Relative ecdf deviation area : 0.0245331
Relative ecdf area correlation : -0.0971911
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 : TRUE
Projection test p-value : 1.0638e-08
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.553594



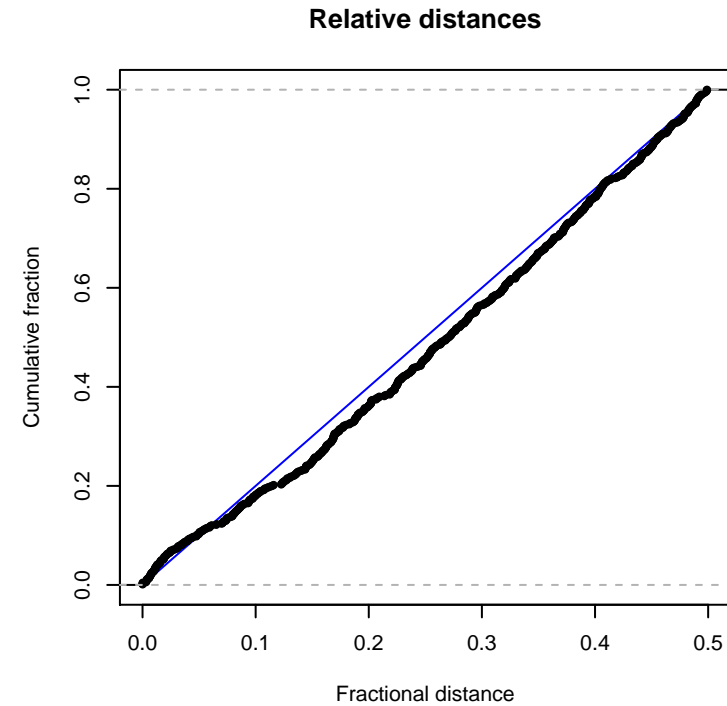
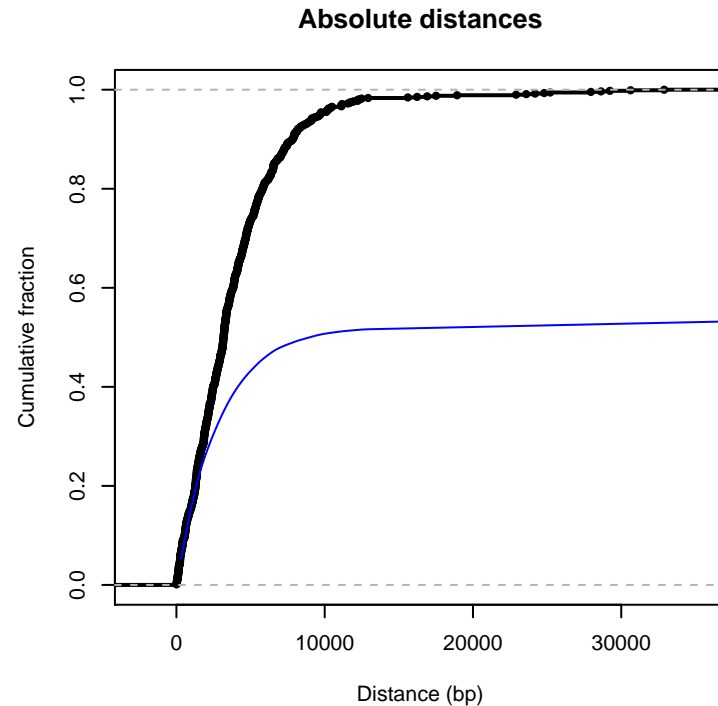
pcontig_011

Query population : 1007
Reference population : 255
Relative Ks p-value : 5.41182e-06
Relative ecdf deviation area : 0.026646
Relative ecdf area correlation : -0.103724
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 : TRUE
Projection test p-value : 5.24723e-07
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.63489



pcontig_012

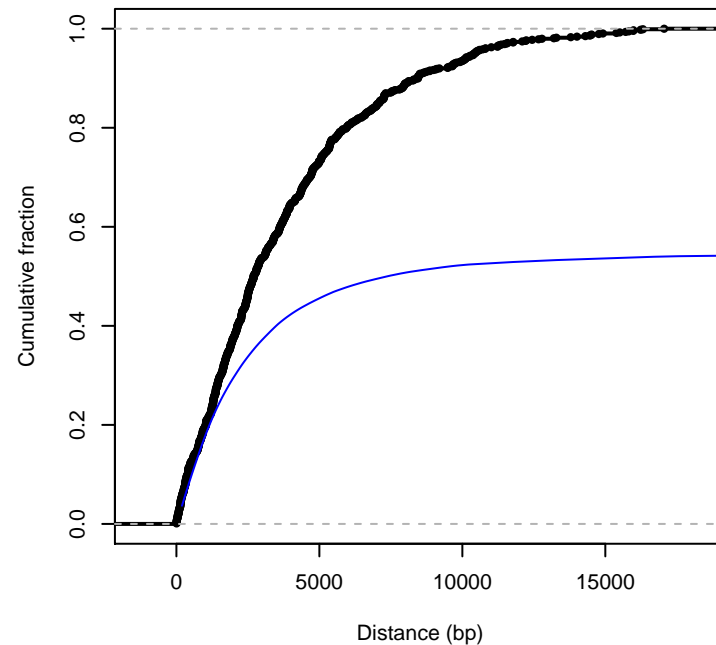
Query population : 897
Reference population : 254
Relative Ks p-value : 0.00802085
Relative ecdf deviation area : 0.0136926
Relative ecdf area correlation : -0.0502635
Relative ecdf deviation area p-value : 0.02
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0106152
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.79549



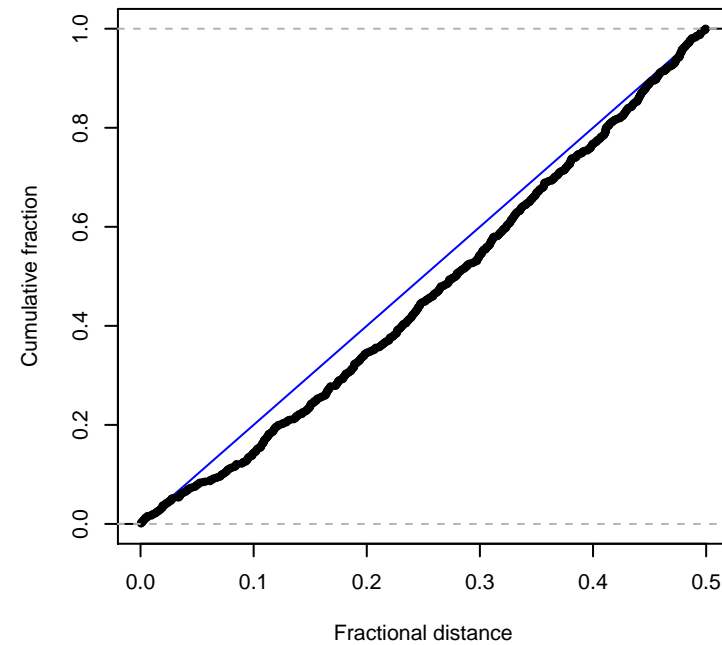
pcontig_013

Query population : 936
Reference population : 290
Relative Ks p-value : 0.000239108
Relative ecdf deviation area : 0.019774
Relative ecdf area correlation : -0.0786415
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 : TRUE
Projection test p-value : 0.221437
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.933221

Absolute distances

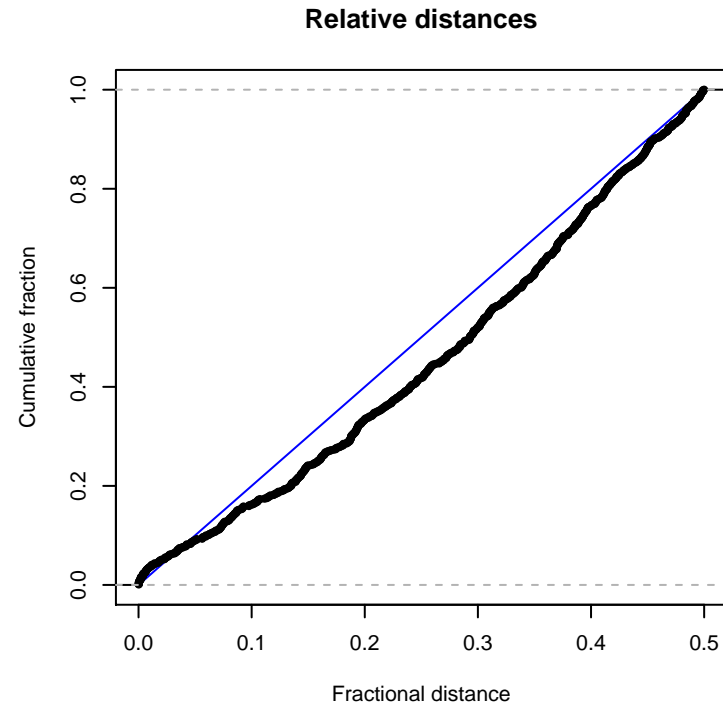
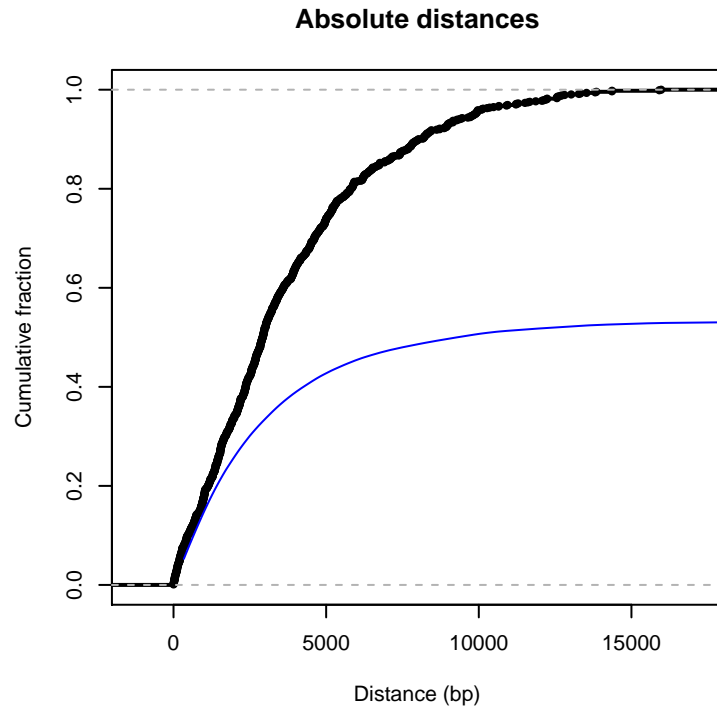


Relative distances



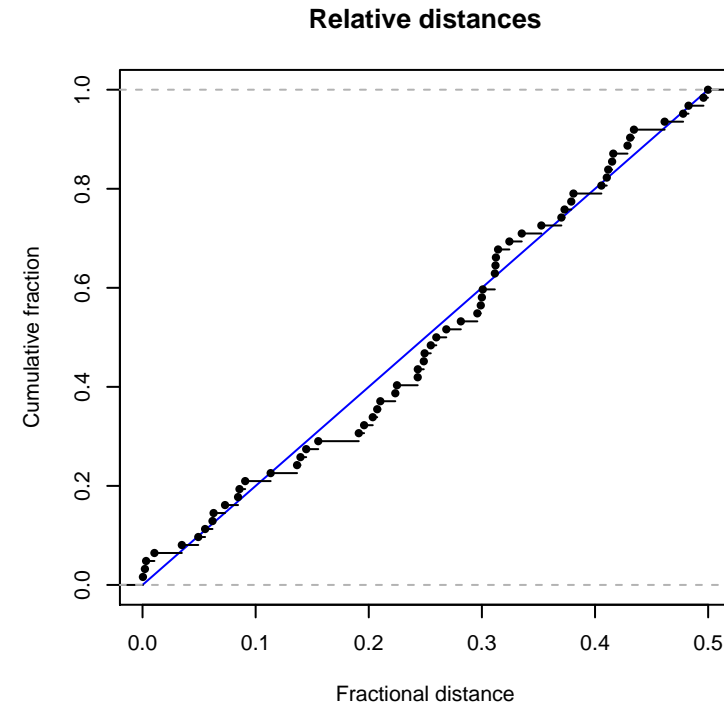
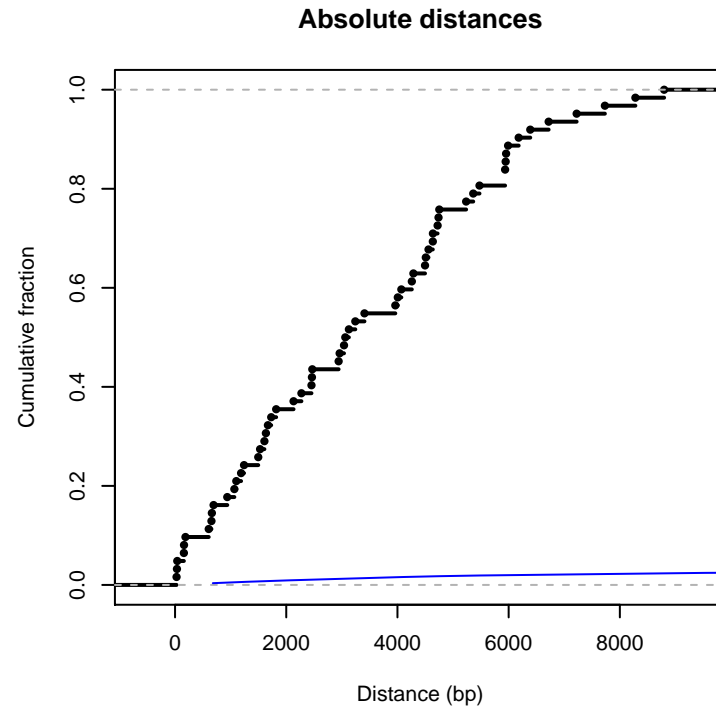
pcontig_014

Query population : 941
Reference population : 239
Relative Ks p-value : 4.27427e-07
Relative ecdf deviation area : 0.0246499
Relative ecdf area correlation : -0.0955631
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 : 0.18
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.258865
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.938198



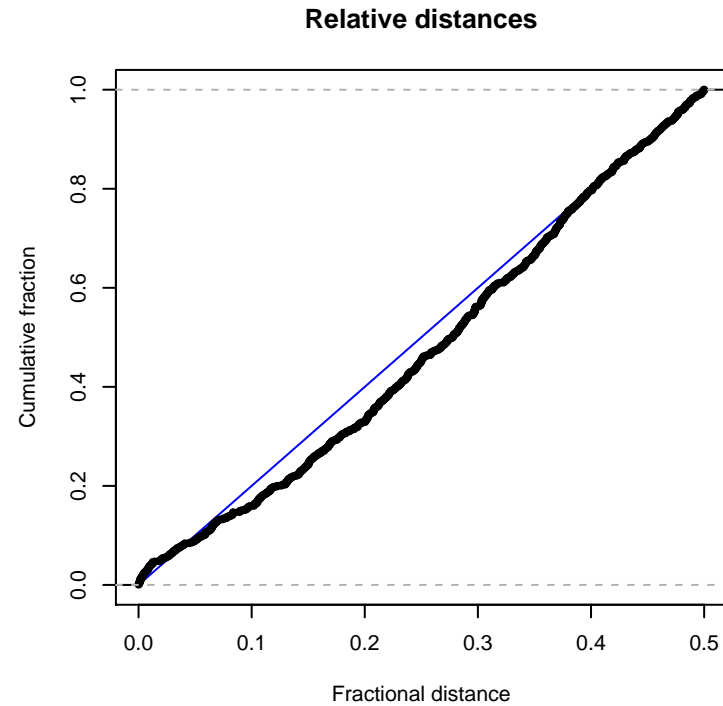
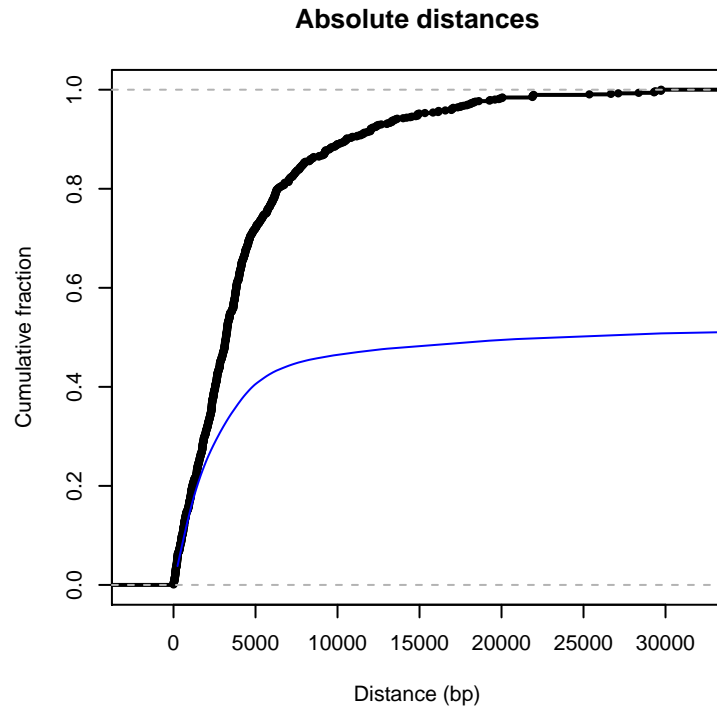
pcontig_015

Query population : 62
Reference population : 8
Relative Ks p-value : 0.636596
Relative ecdf deviation area : 0.0138161
Relative ecdf area correlation : -0.0227526
Relative ecdf deviation area p-value : 0.66
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 : 1.88911e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 40.6861



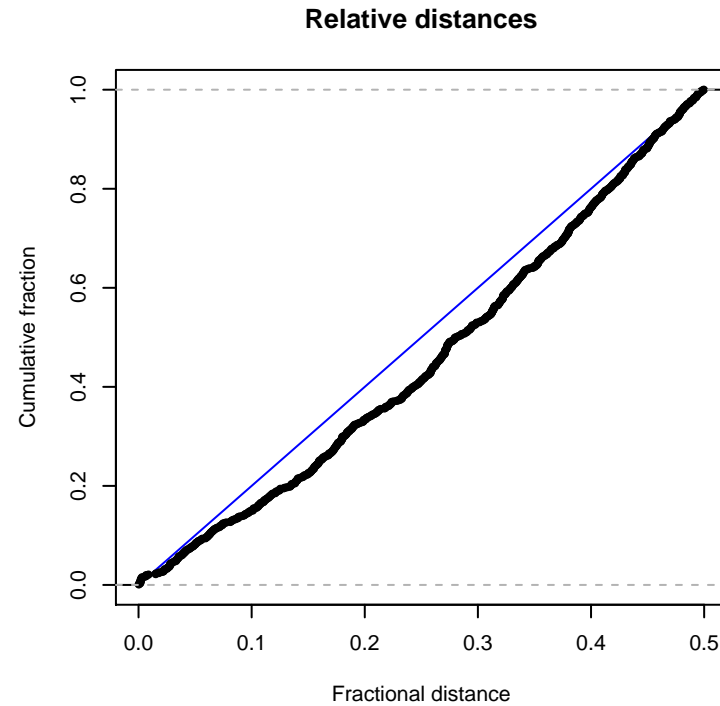
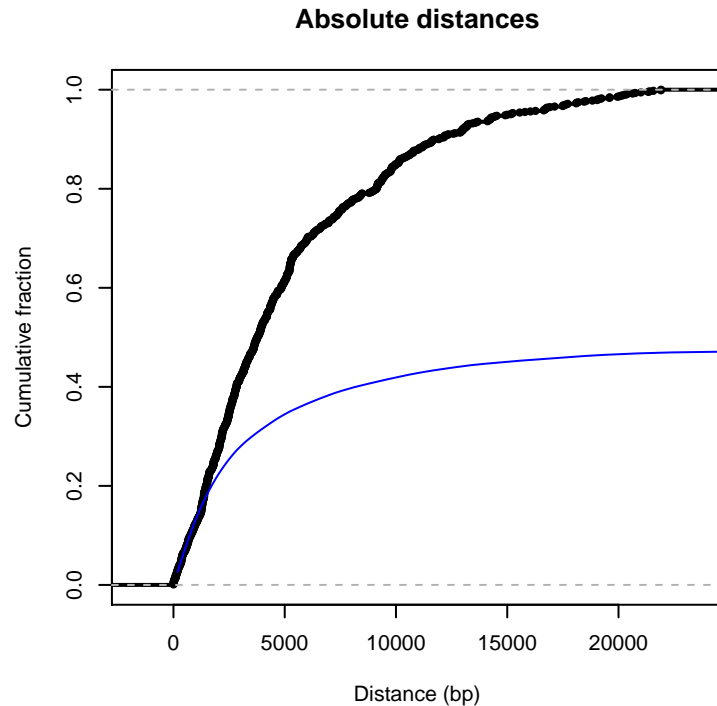
pcontig_016

Query population : 956
Reference population : 240
Relative Ks p-value : 9.44363e-05
Relative ecdf deviation area : 0.01459
Relative ecdf area correlation : -0.0560822
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 : 0.49
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0563407
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.863143



pcontig_017

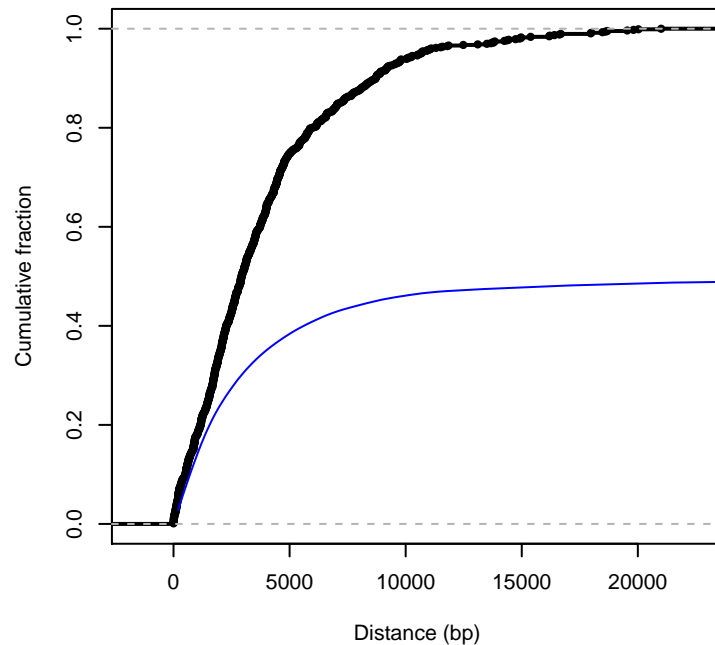
Query population : 912
Reference population : 219
Relative Ks p-value : 6.77292e-07
Relative ecdf deviation area : 0.0234854
Relative ecdf area correlation : -0.0937222
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.5
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.324373
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.950648



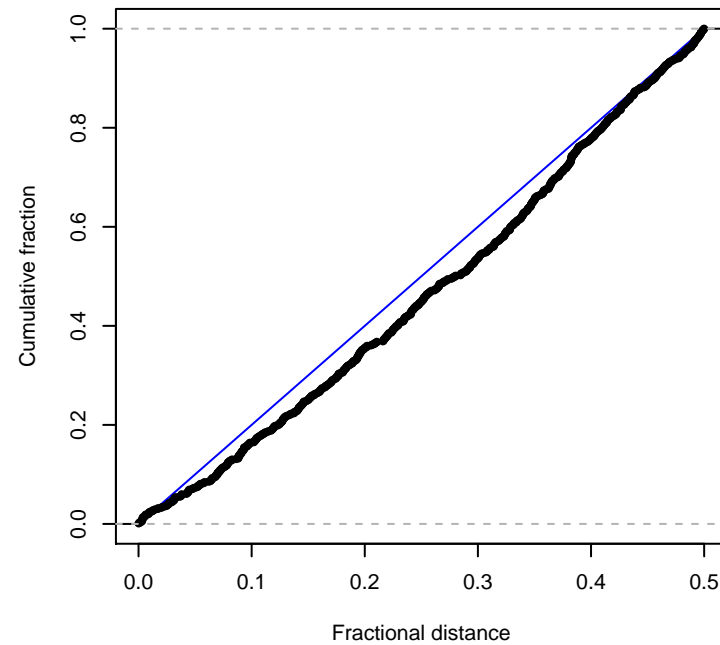
pcontig_018

Query population : 854
Reference population : 221
Relative Ks p-value : 0.000413541
Relative ecdf deviation area : 0.0189402
Relative ecdf area correlation : -0.0751105
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 : 0.08
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0518583
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.828752

Absolute distances



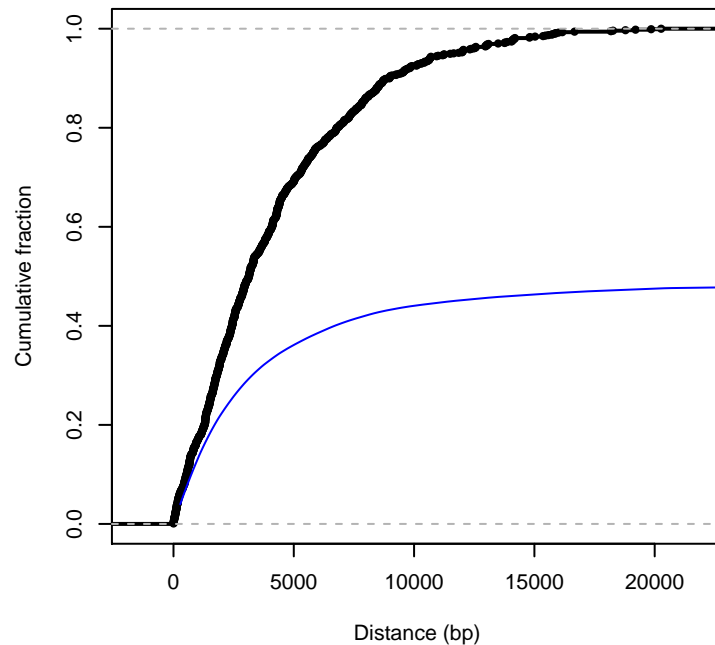
Relative distances



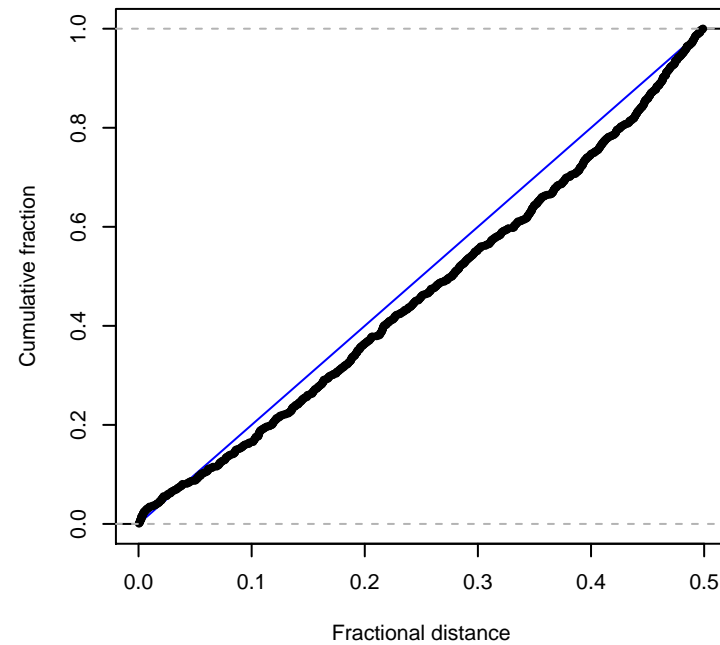
pcontig_019

Query population : 1007
Reference population : 217
Relative Ks p-value : 0.000117378
Relative ecdf deviation area : 0.0188505
Relative ecdf area correlation : -0.0737692
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 : 0.00754411
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.23217

Absolute distances



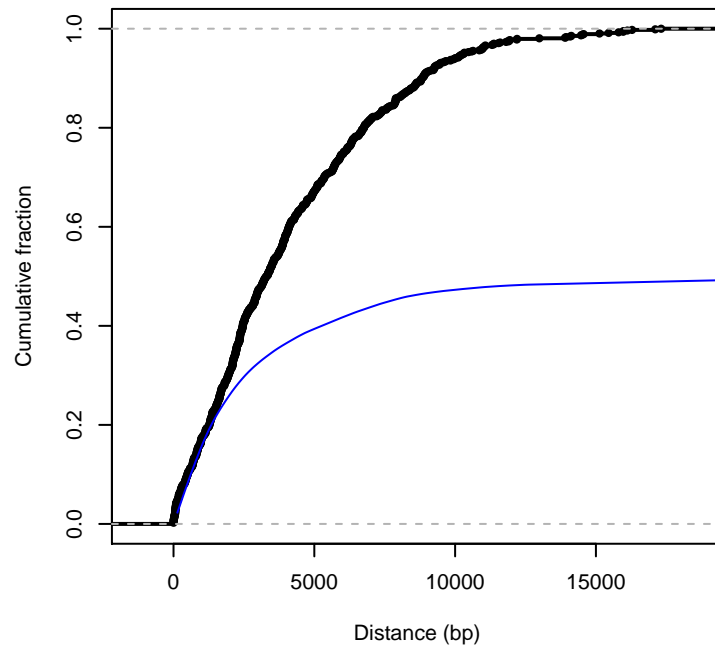
Relative distances



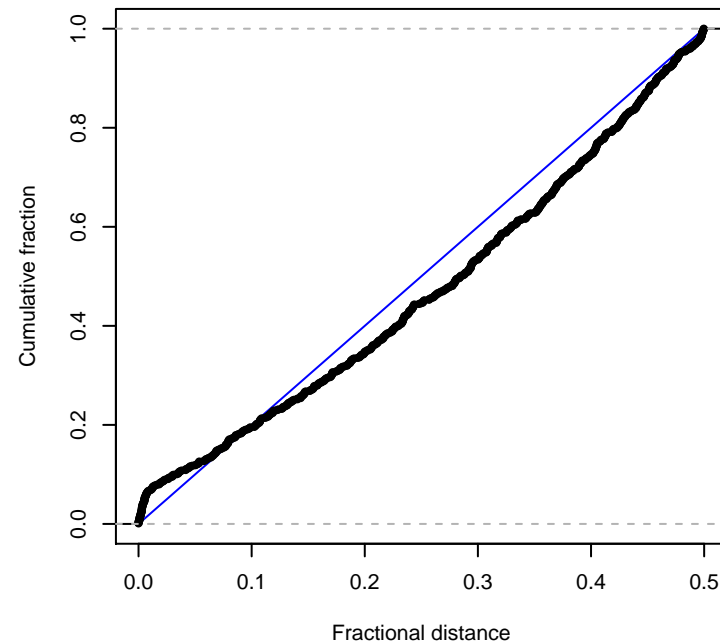
pcontig_020

Query population : 826
Reference population : 255
Relative Ks p-value : 0.000165031
Relative ecdf deviation area : 0.0202775
Relative ecdf area correlation : -0.0641958
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 : 0.3
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00572417
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.761343

Absolute distances

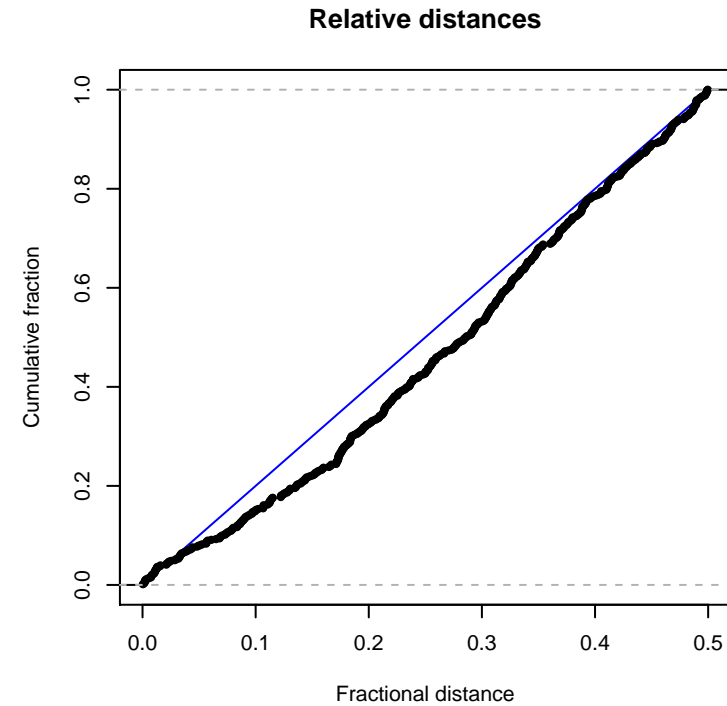
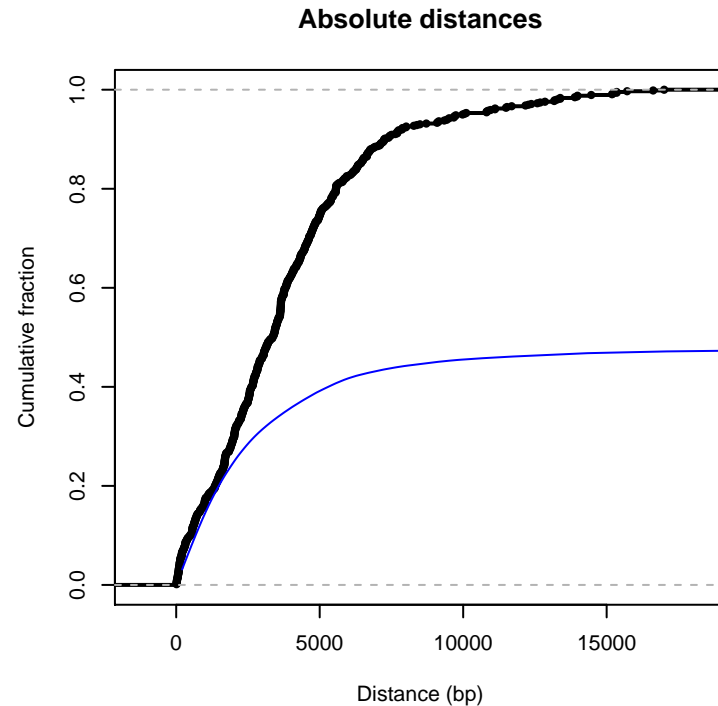


Relative distances



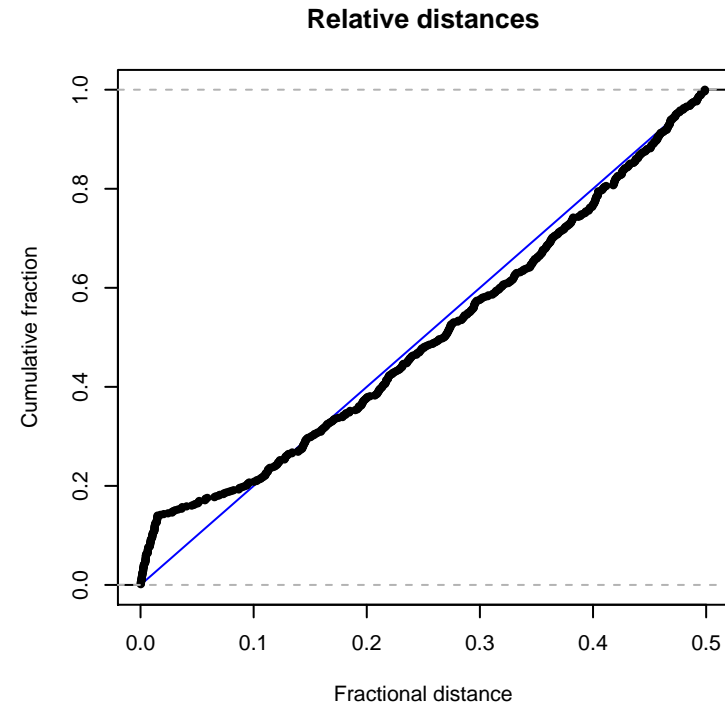
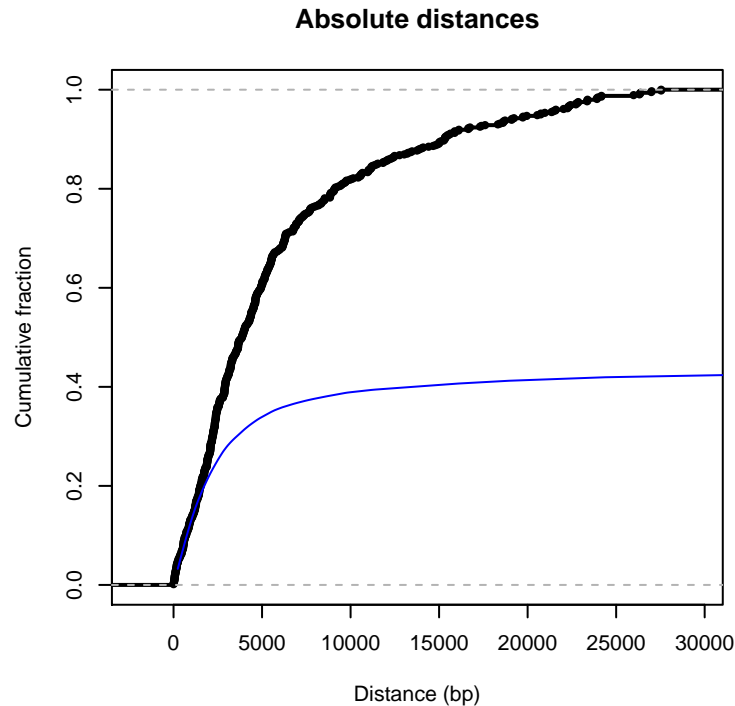
pcontig_021

Query population : 659
Reference population : 233
Relative Ks p-value : 4.51307e-06
Relative ecdf deviation area : 0.0215246
Relative ecdf area correlation : -0.0854618
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 : 0.06
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0389582
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.818069



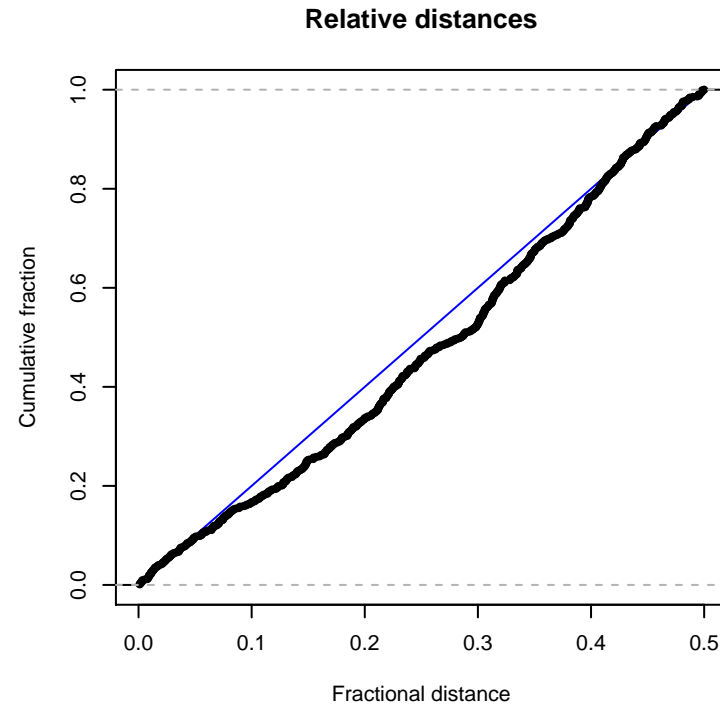
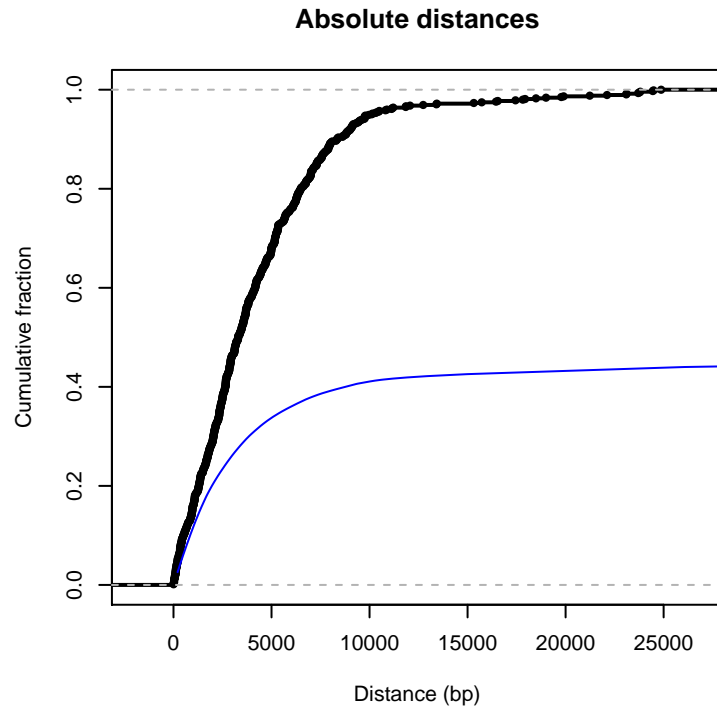
pcontig_022

Query population : 643
Reference population : 209
Relative Ks p-value : 3.57482e-07
Relative ecdf deviation area : 0.0139085
Relative ecdf area correlation : -0.00991242
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 : 0.34
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.000230462
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.611474



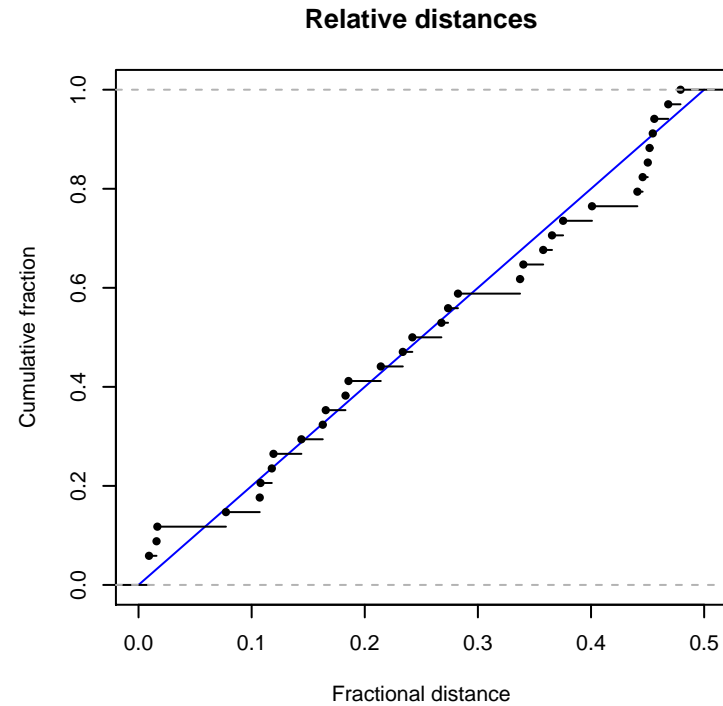
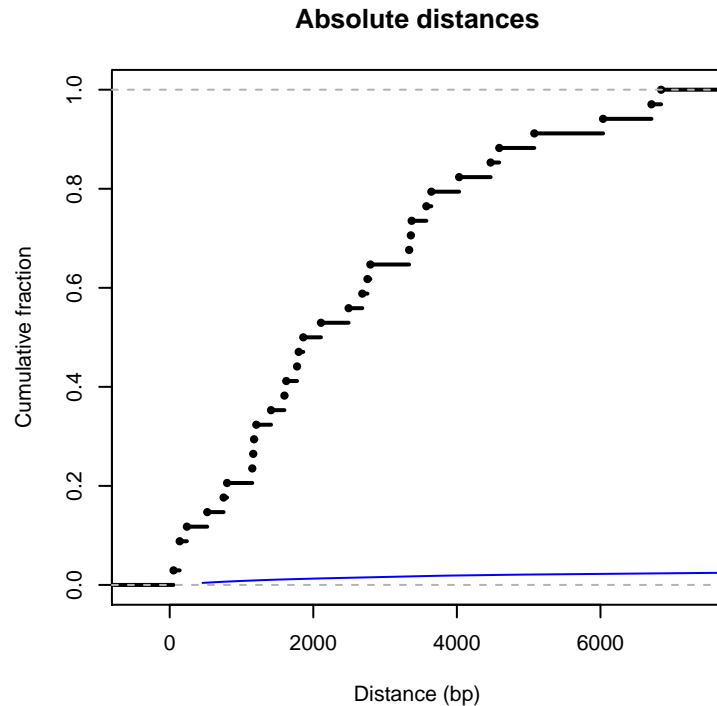
pcontig_023

Query population : 747
Reference population : 190
Relative Ks p-value : 0.000256579
Relative ecdf deviation area : 0.016402
Relative ecdf area correlation : -0.0625376
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 : 0.16
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.14291
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.87389



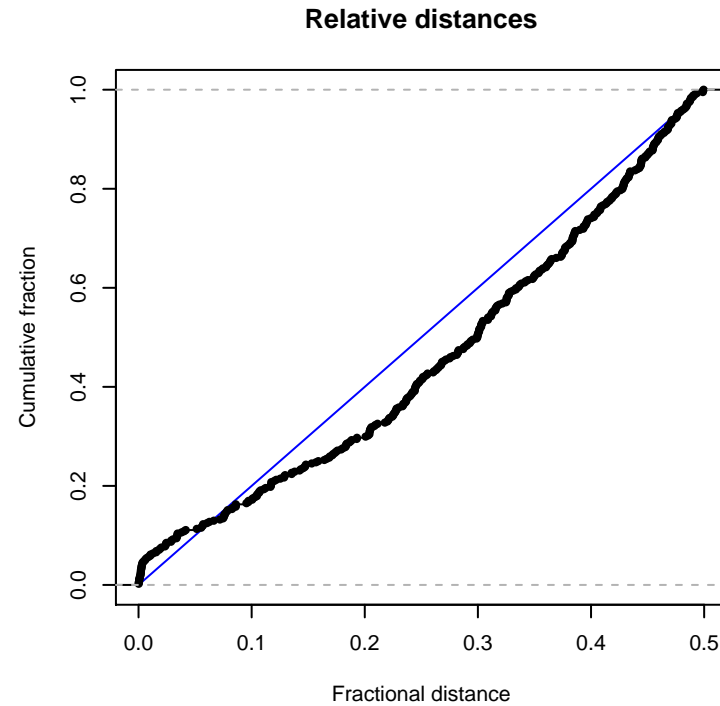
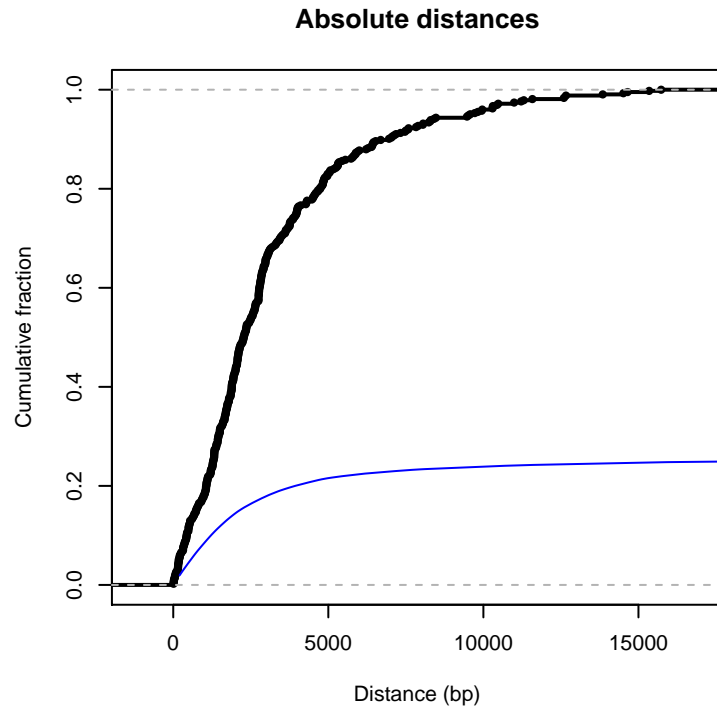
pcontig_024

Query population : 34
Reference population : 14
Relative Ks p-value : 0.694606
Relative ecdf deviation area : 0.0176466
Relative ecdf area correlation : -0.0303895
Relative ecdf deviation area p-value : 0.75
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 : 1.24909e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 37.7634



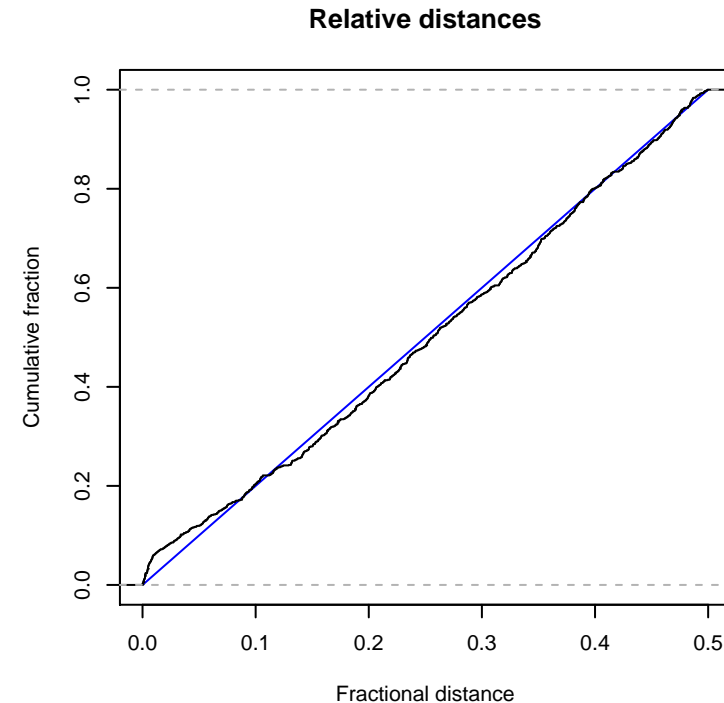
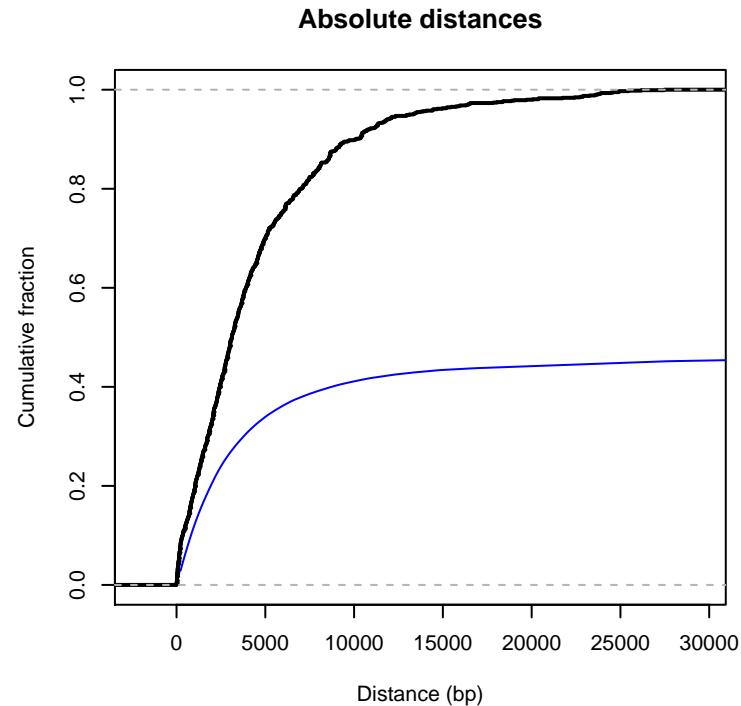
pcontig_025

Query population : 424
Reference population : 145
Relative Ks p-value : 4.58906e-05
Relative ecdf deviation area : 0.0280417
Relative ecdf area correlation : -0.100321
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 : 1.69329e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.89867



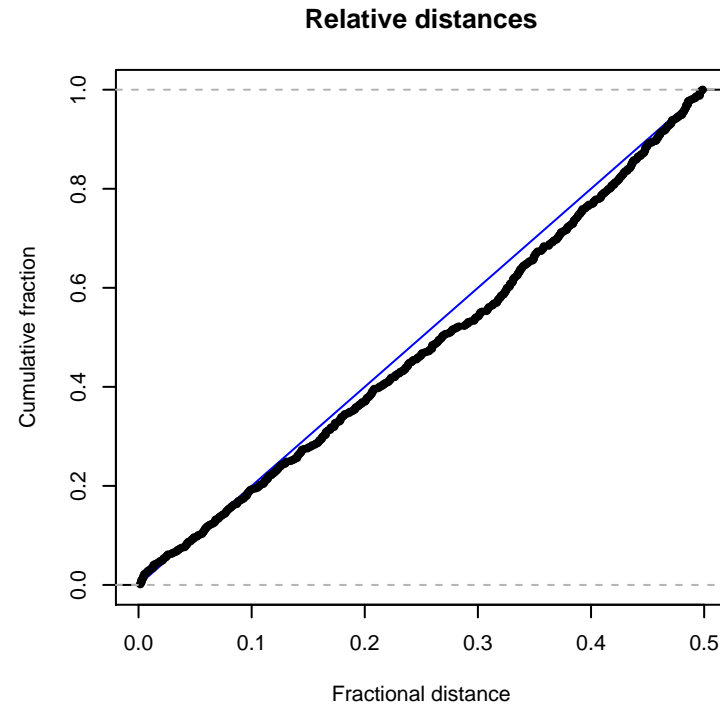
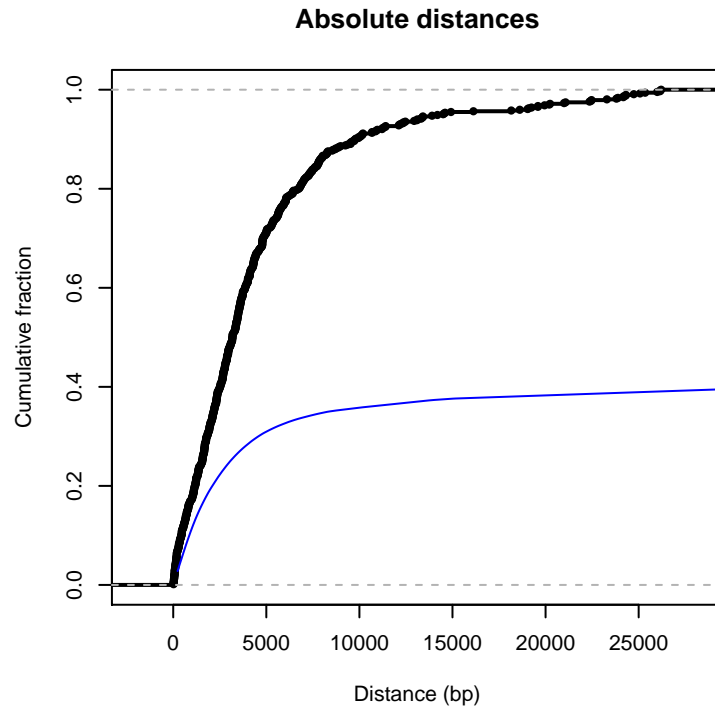
pcontig_026

Query population : 1040
Reference population : 198
Relative Ks p-value : 0.0582501
Relative ecdf deviation area : 0.00685427
Relative ecdf area correlation : -0.00974652
Relative ecdf deviation area p-value : 0.13
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 : 3.75301e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.43703



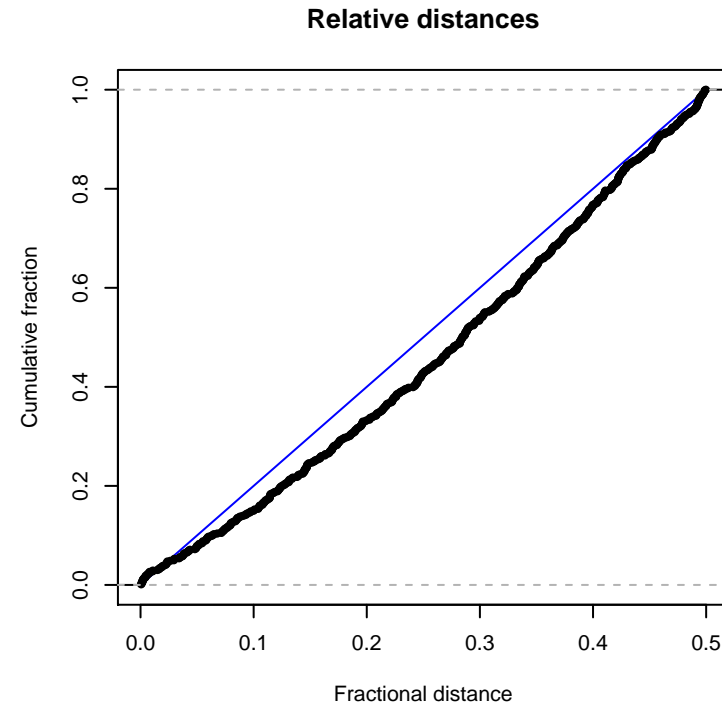
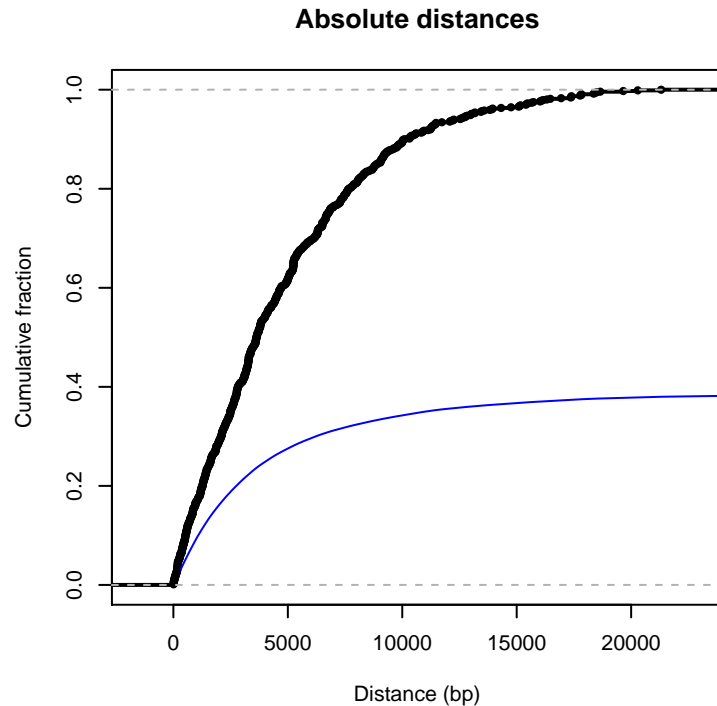
pcontig_027

Query population : 667
Reference population : 184
Relative Ks p-value : 0.00757932
Relative ecdf deviation area : 0.0126297
Relative ecdf area correlation : -0.0488765
Relative ecdf deviation area p-value : 0.04
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 : 3.6161e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.54596



pcontig_028

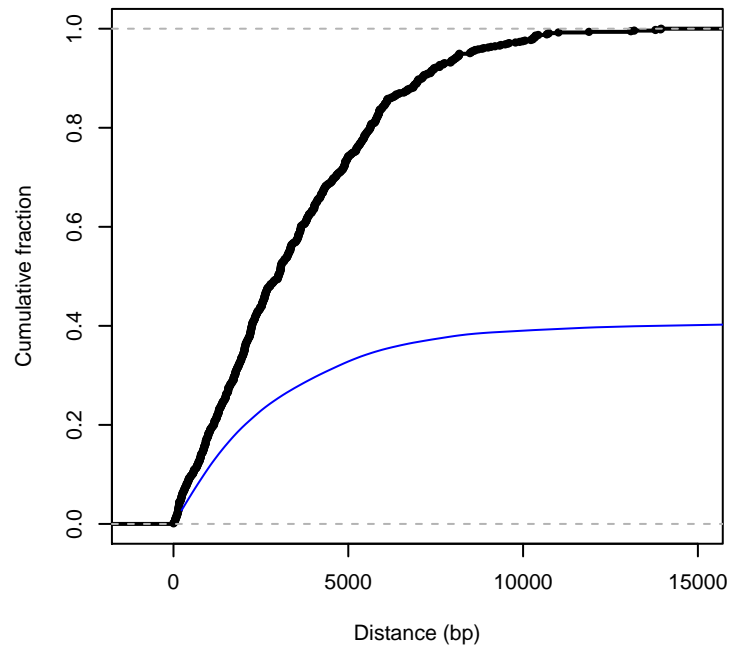
Query population : 761
Reference population : 151
Relative Ks p-value : 3.8529×10^{-5}
Relative ecdf deviation area : 0.0229701
Relative ecdf area correlation : -0.0910457
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00201943
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.32991



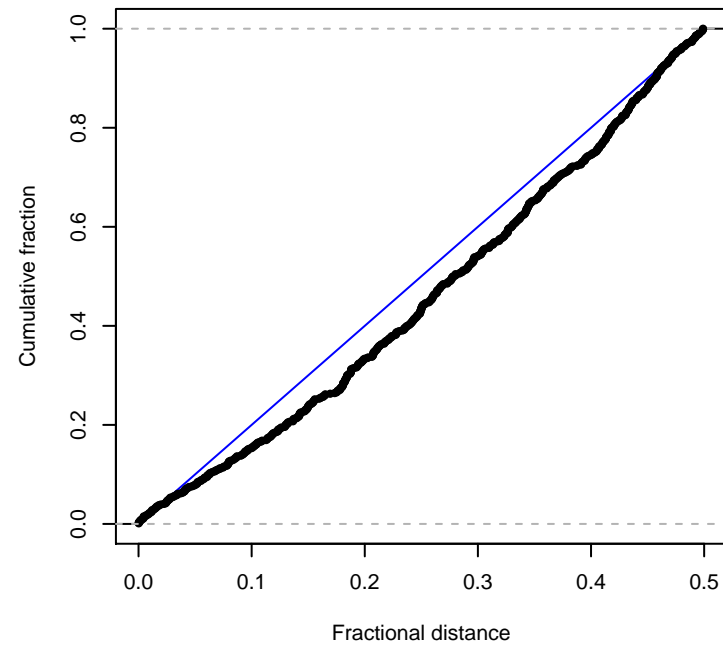
pcontig_029

Query population : 791
Reference population : 182
Relative Ks p-value : 1.41012e-05
Relative ecdf deviation area : 0.0227174
Relative ecdf area correlation : -0.0898992
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 : 0.321898
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.04679

Absolute distances

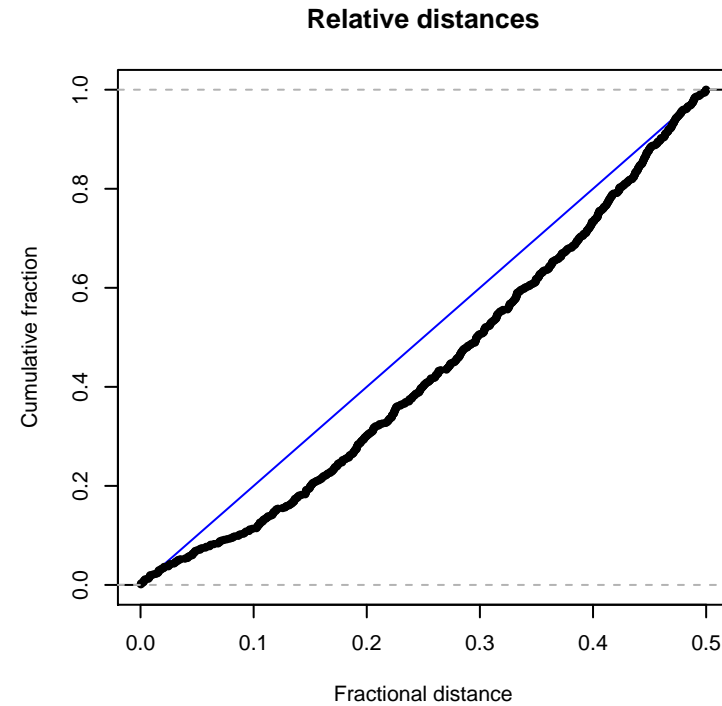
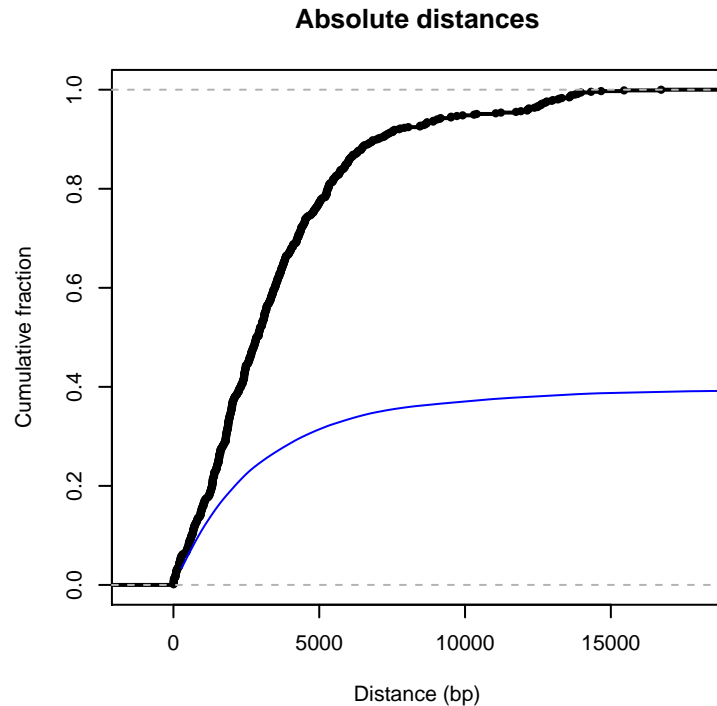


Relative distances



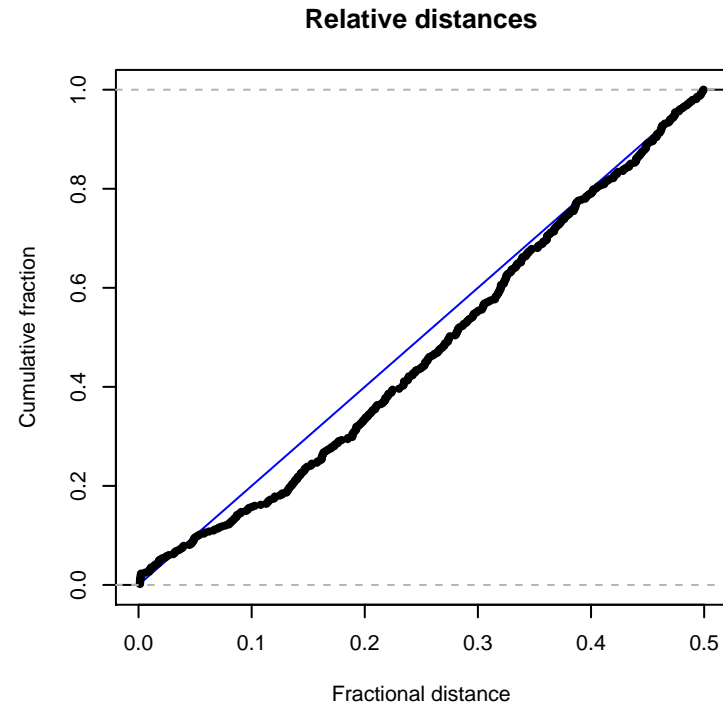
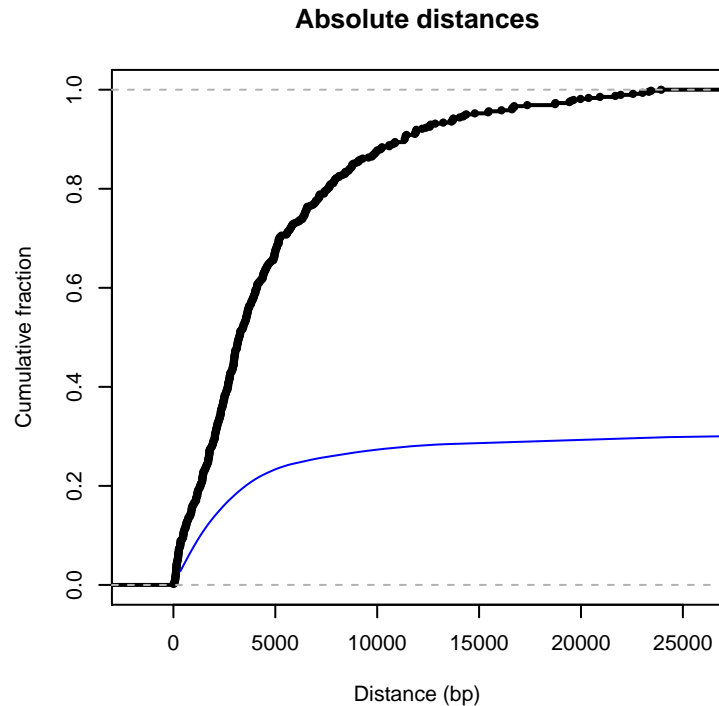
pcontig_030

Query population : 715
Reference population : 185
Relative Ks p-value : 2.88405e-08
Relative ecdf deviation area : 0.0349895
Relative ecdf area correlation : -0.139529
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 : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.21924
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.08457



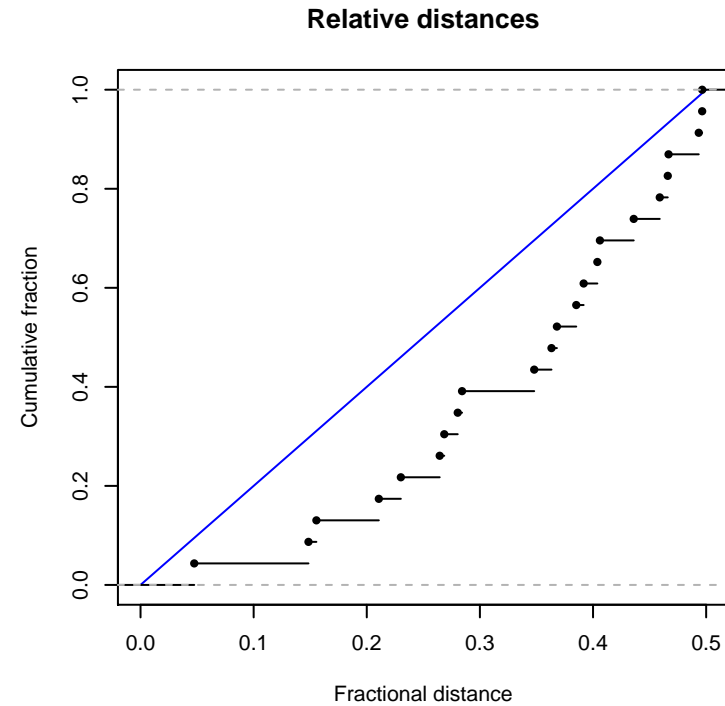
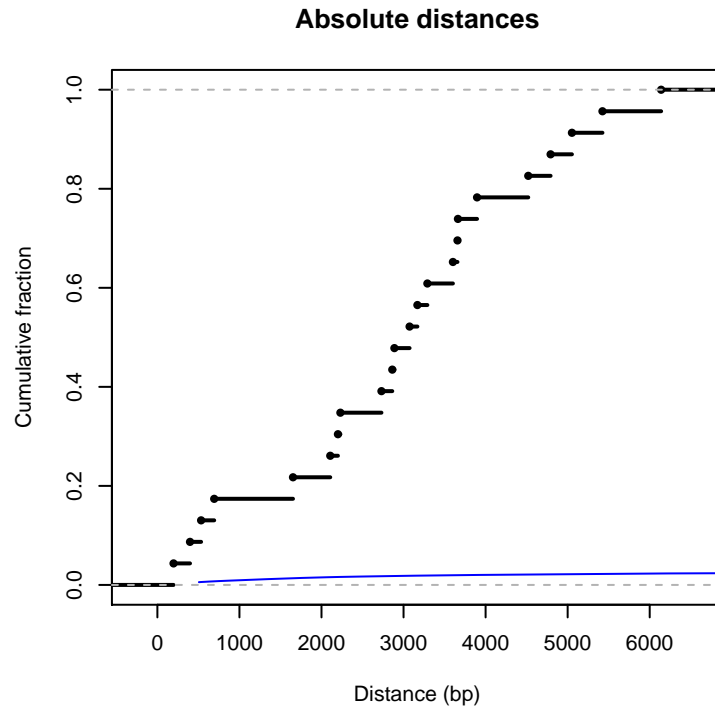
pcontig_031

Query population : 482
Reference population : 124
Relative Ks p-value : 0.00361867
Relative ecdf deviation area : 0.0176363
Relative ecdf area correlation : -0.06817
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 : 8.98448e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.70554



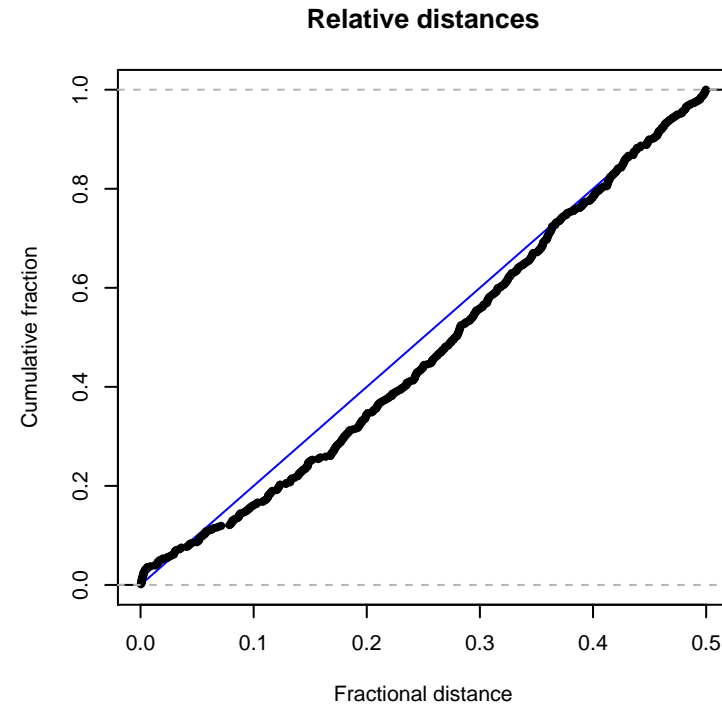
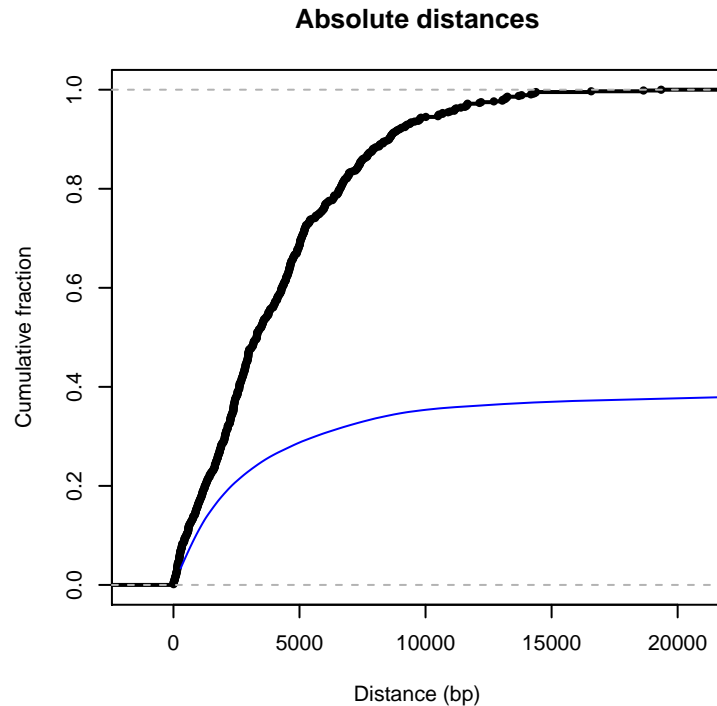
pcontig_032

Query population : 23
Reference population : 17
Relative Ks p-value : 0.0175862
Relative ecdf deviation area : 0.0920124
Relative ecdf area correlation : -0.368723
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 : 0.000409975
Projection test lower tail : FALSE
Projection test observed to expected ratio : 13.7205



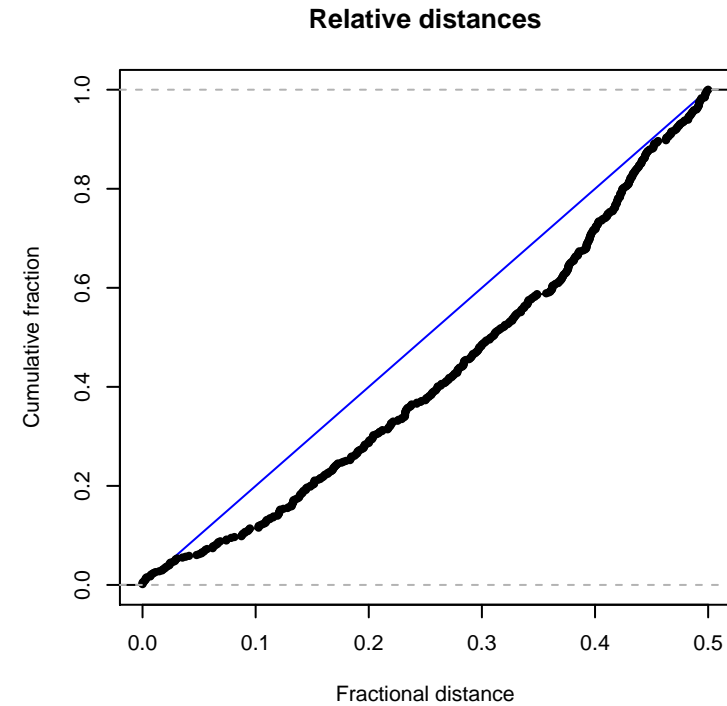
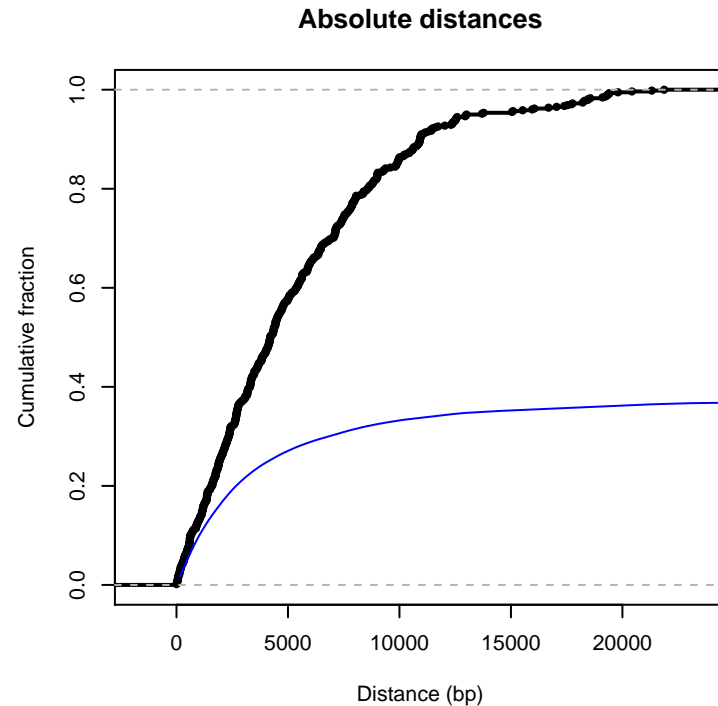
pcontig_033

Query population : 637
Reference population : 181
Relative Ks p-value : 0.00107993
Relative ecdf deviation area : 0.0163346
Relative ecdf area correlation : -0.0614225
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 : 0.18755
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.11239



pcontig_034

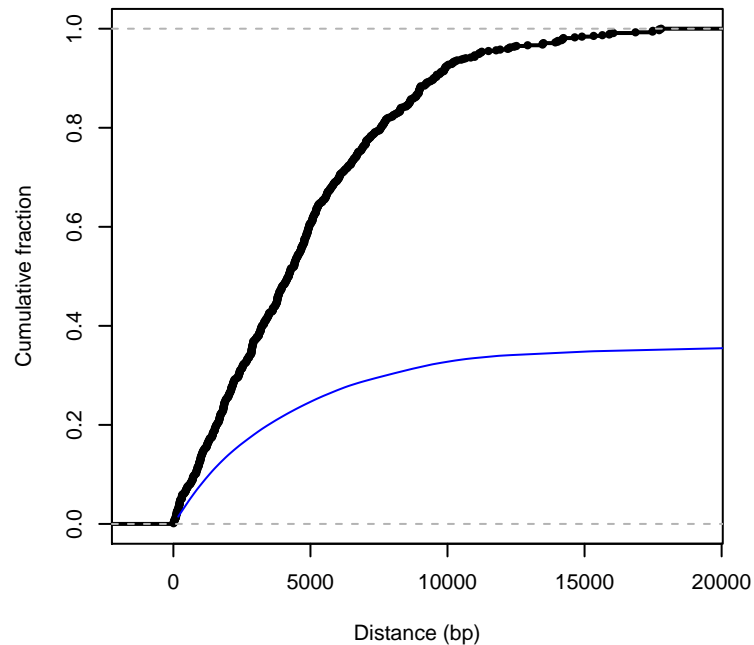
Query population : 579
Reference population : 163
Relative Ks p-value : 5.78306e-09
Relative ecdf deviation area : 0.0406771
Relative ecdf area correlation : -0.16254
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.281289
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.07412



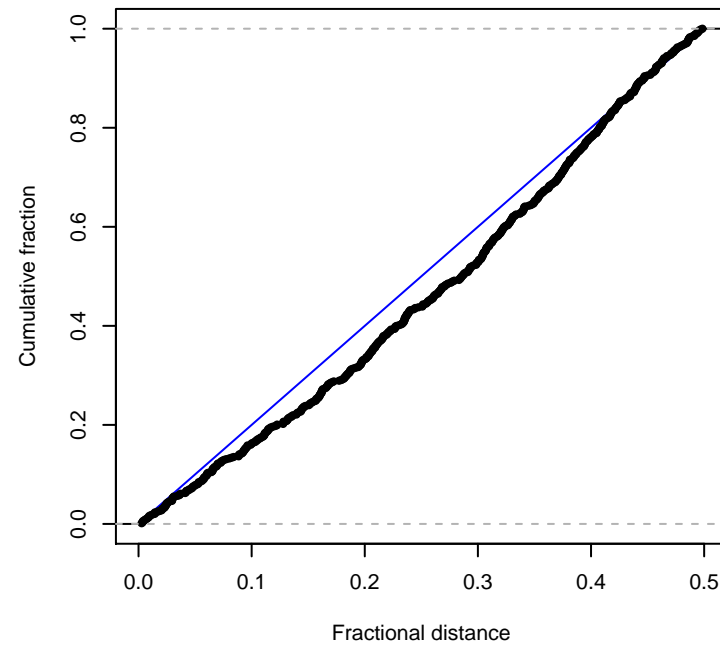
pcontig_035

Query population : 688
Reference population : 129
Relative Ks p-value : 0.000830779
Relative ecdf deviation area : 0.0192015
Relative ecdf area correlation : -0.07349
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 : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.389457
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.942358

Absolute distances



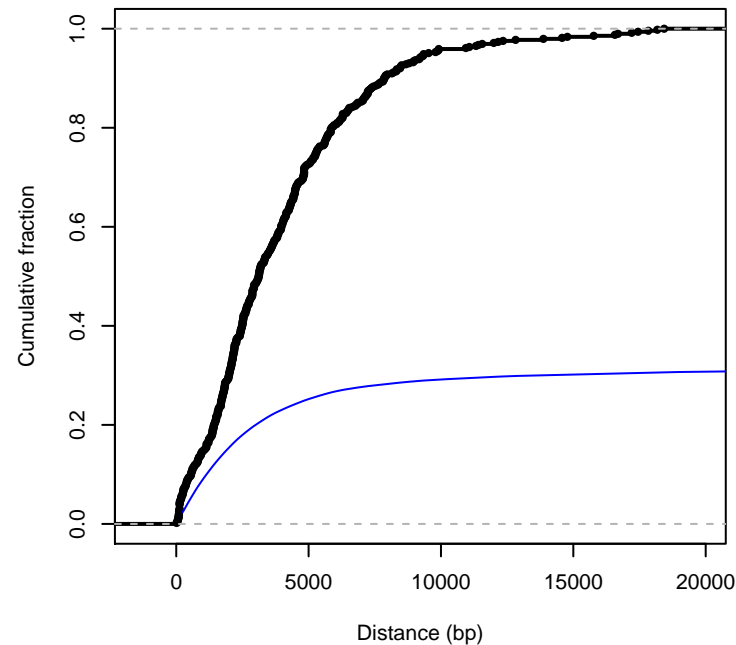
Relative distances



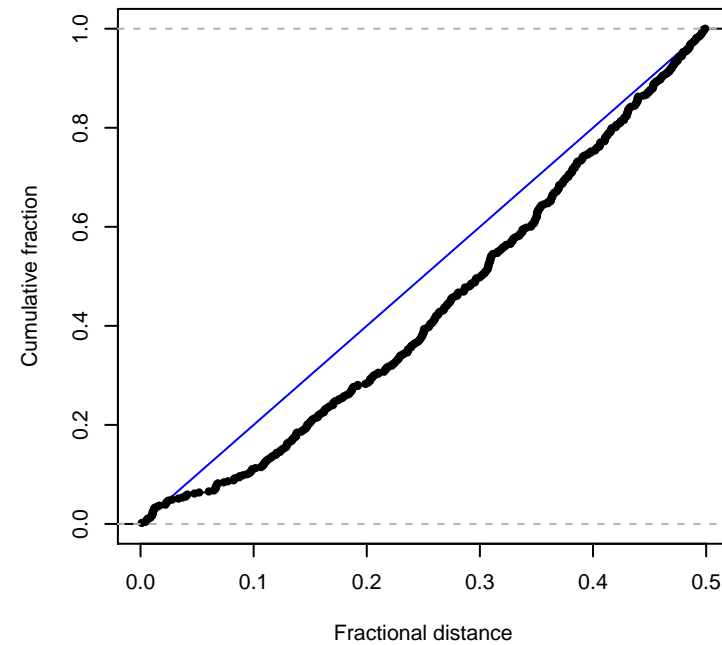
pcontig_036

Query population : 488
Reference population : 148
Relative Ks p-value : 2.46651e-07
Relative ecdf deviation area : 0.0349197
Relative ecdf area correlation : -0.139204
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 : 0.0157384
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.36606

Absolute distances



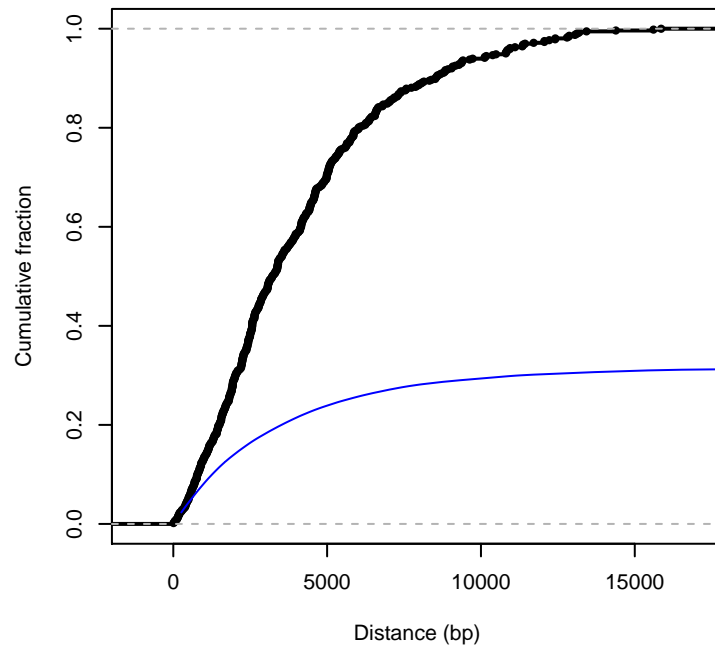
Relative distances



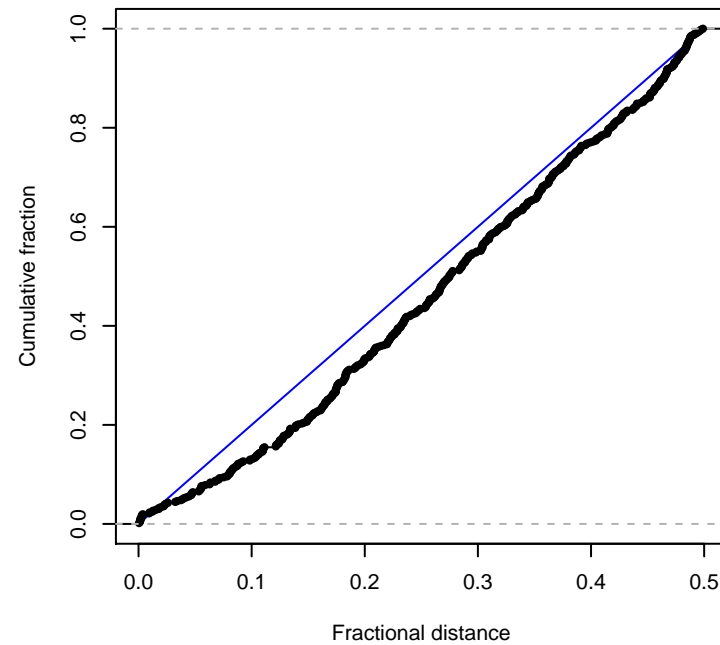
pcontig_037

Query population : 562
Reference population : 137
Relative Ks p-value : 9.40239×10^{-5}
Relative ecdf deviation area : 0.023669
Relative ecdf area correlation : -0.0939648
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 : 5.69947×10^{-7}
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.83233

Absolute distances

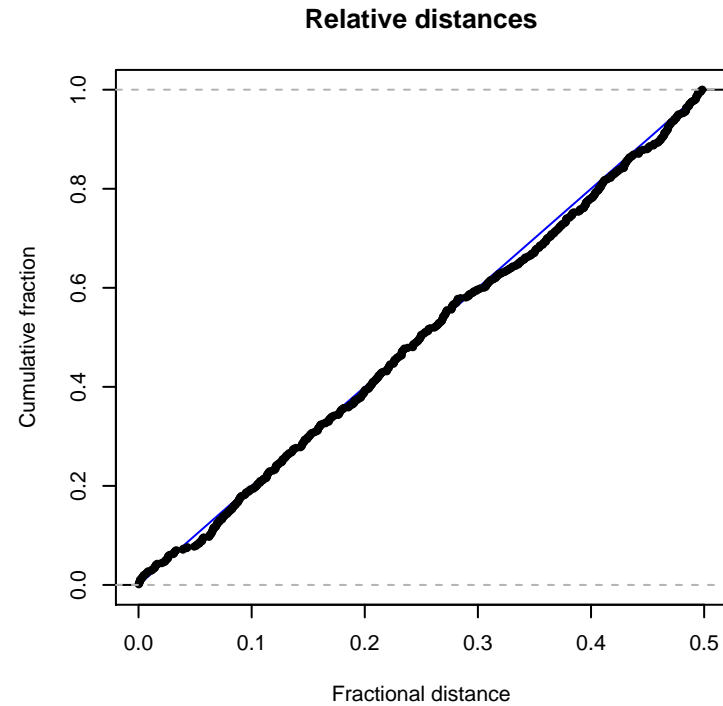
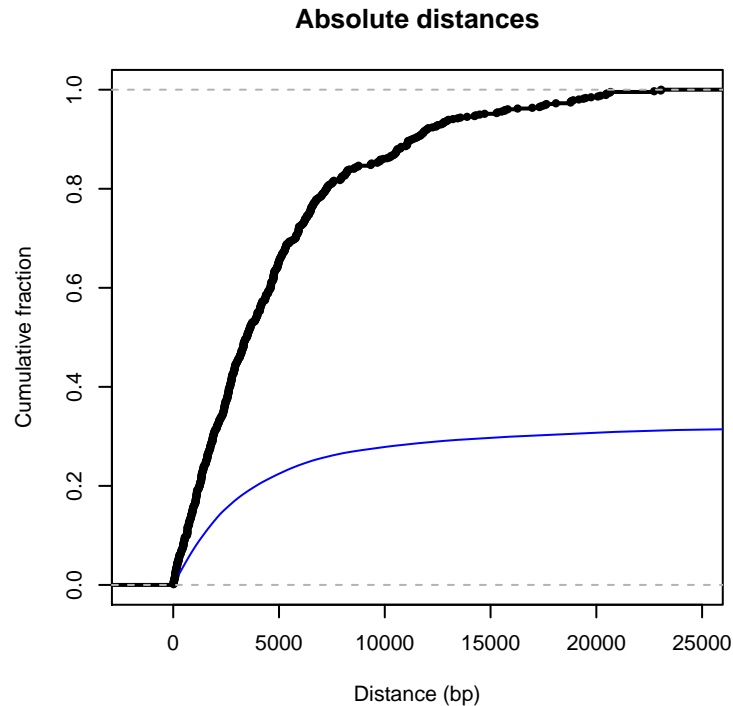


Relative distances



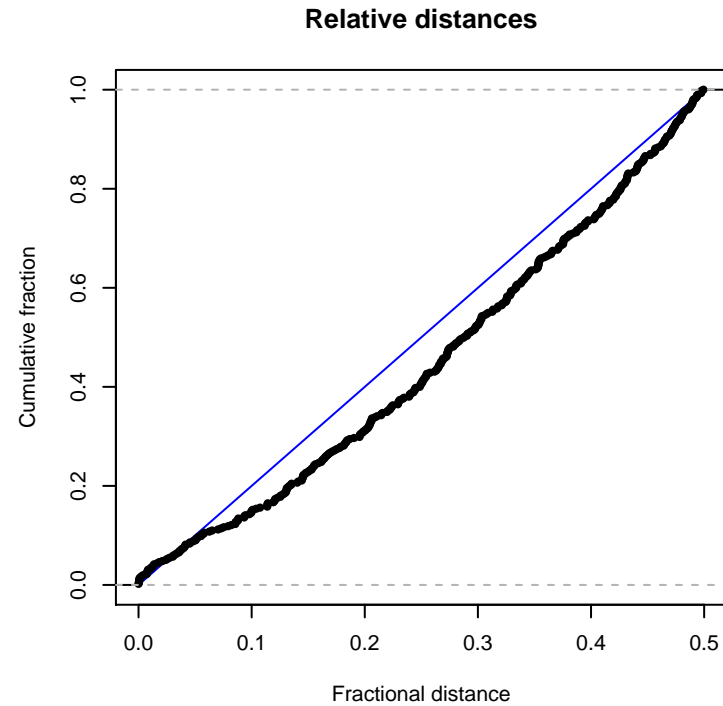
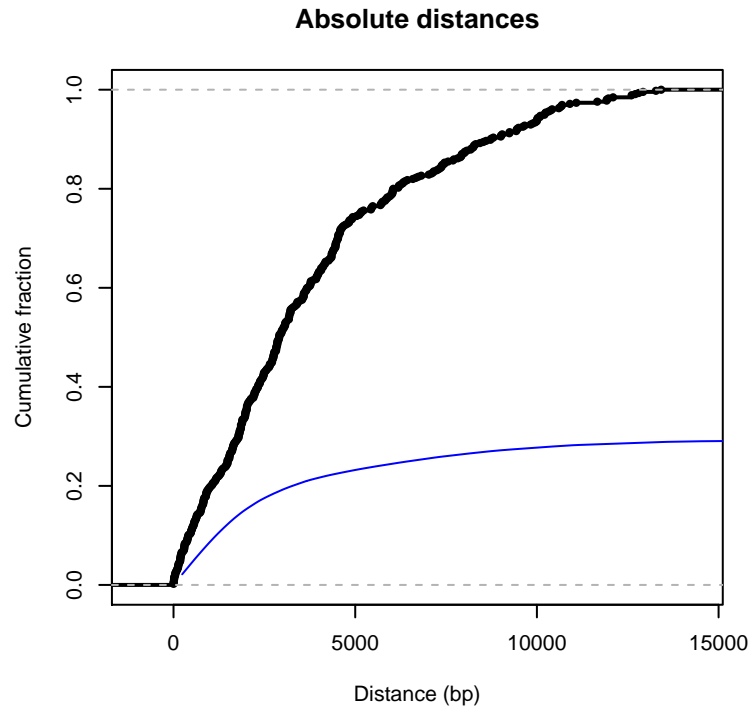
pcontig_039

Query population : 658
Reference population : 121
Relative Ks p-value : 0.557203
Relative ecdf deviation area : 0.00551244
Relative ecdf area correlation : -0.0183847
Relative ecdf deviation area p-value : 0.49
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 : 5.65043e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.67738



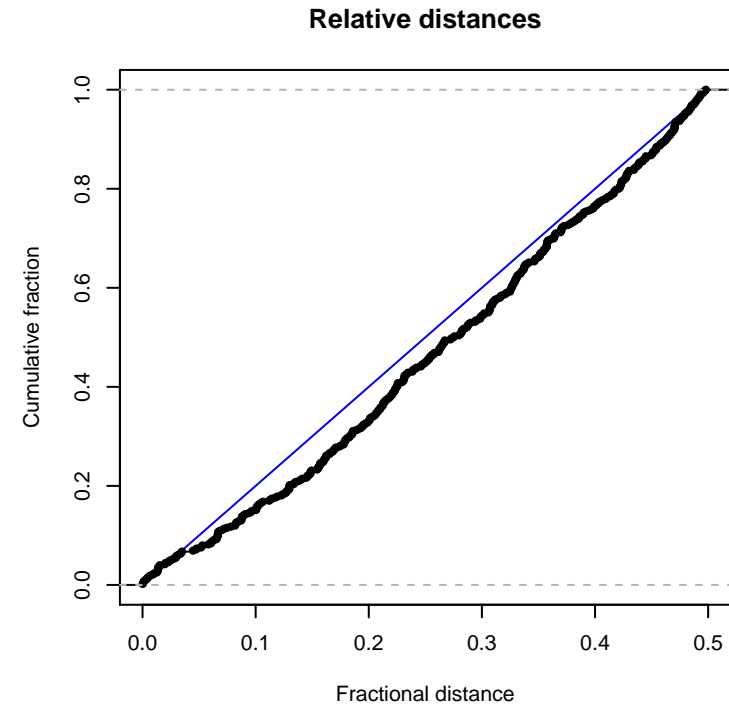
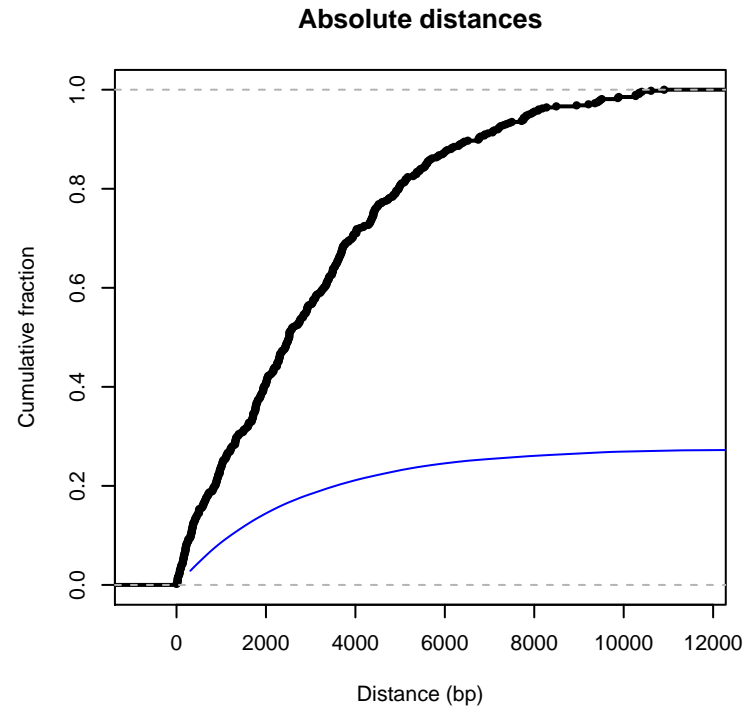
pcontig_040

Query population : 455
Reference population : 138
Relative Ks p-value : 0.000217896
Relative ecdf deviation area : 0.0280646
Relative ecdf area correlation : -0.110474
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 : 0.000116943
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.64742



pcontig_041

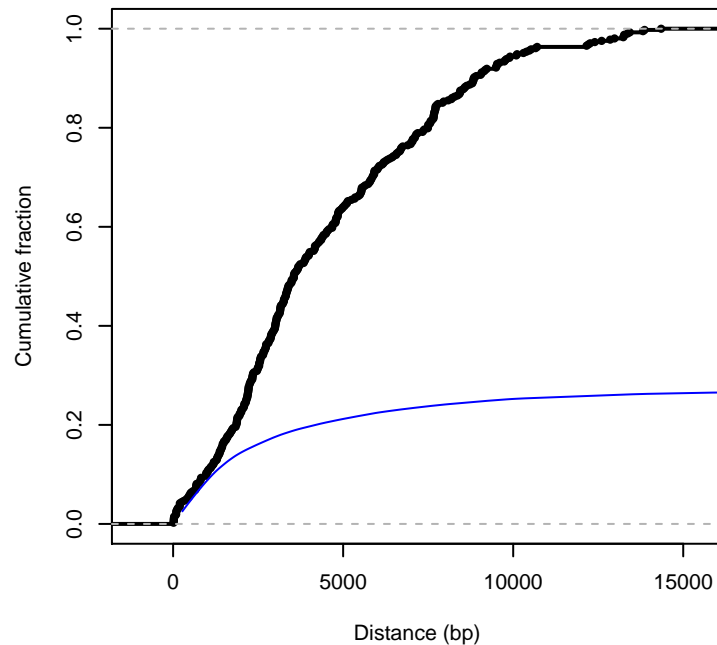
Query population : 476
Reference population : 142
Relative Ks p-value : 0.00650356
Relative ecdf deviation area : 0.0200483
Relative ecdf area correlation : -0.0805304
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.74225e-14
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.49925



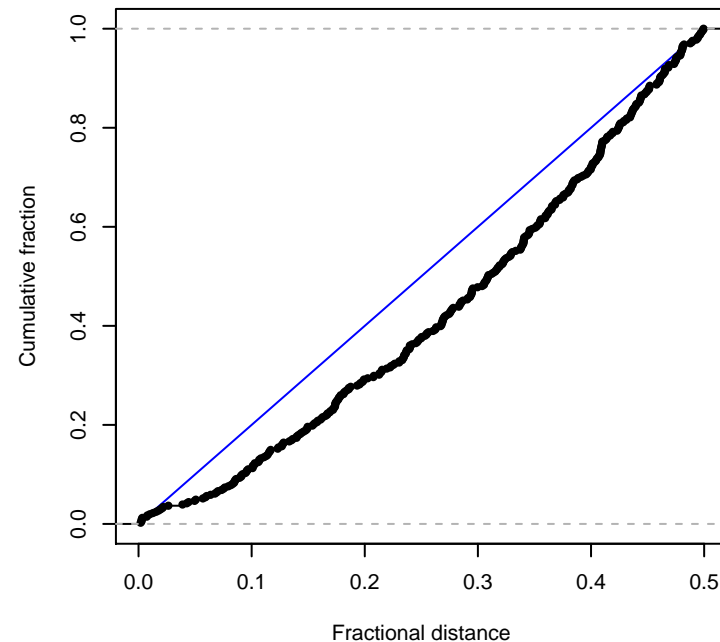
pcontig_042

Query population : 408
Reference population : 144
Relative Ks p-value : 3.67818e-07
Relative ecdf deviation area : 0.0410162
Relative ecdf area correlation : -0.164103
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 : 0.273978
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.865117

Absolute distances

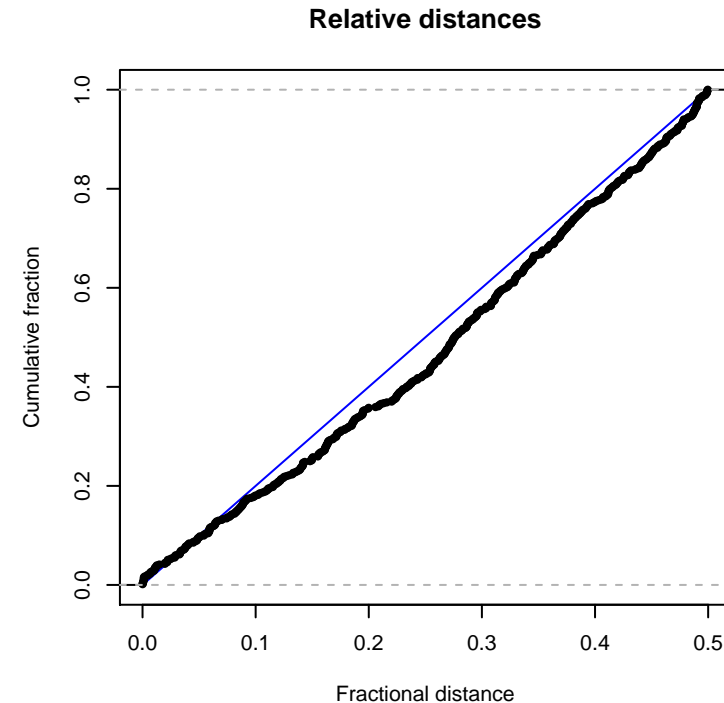
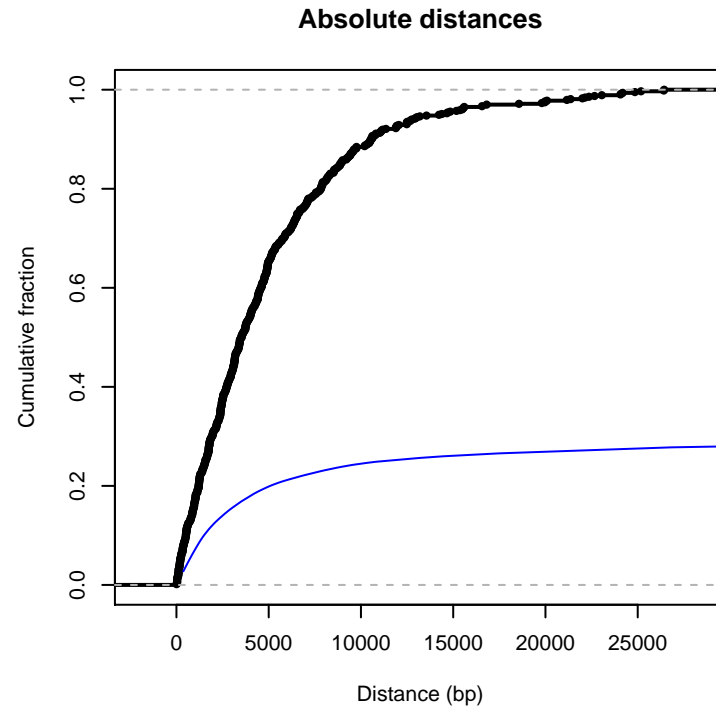


Relative distances



pcontig_043

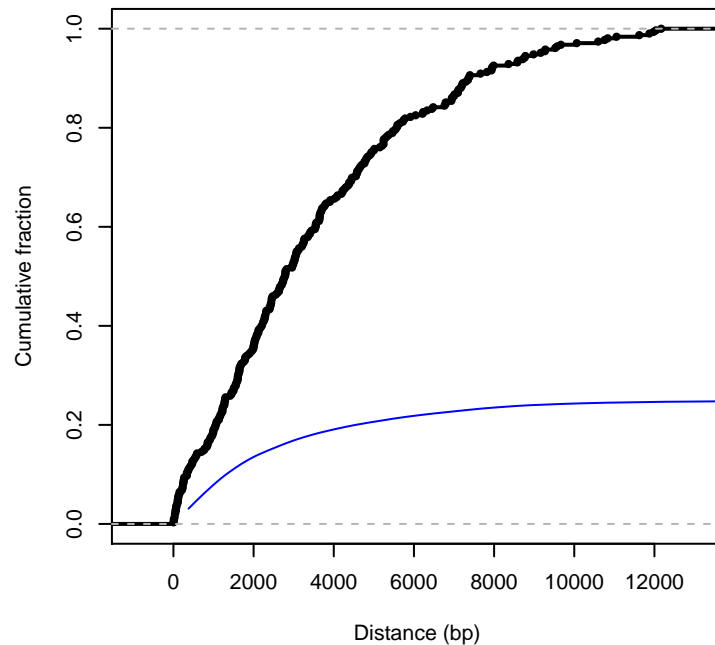
Query population : 632
Reference population : 113
Relative Ks p-value : 0.000811934
Relative ecdf deviation area : 0.0169567
Relative ecdf area correlation : -0.0668963
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.12323e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.04254



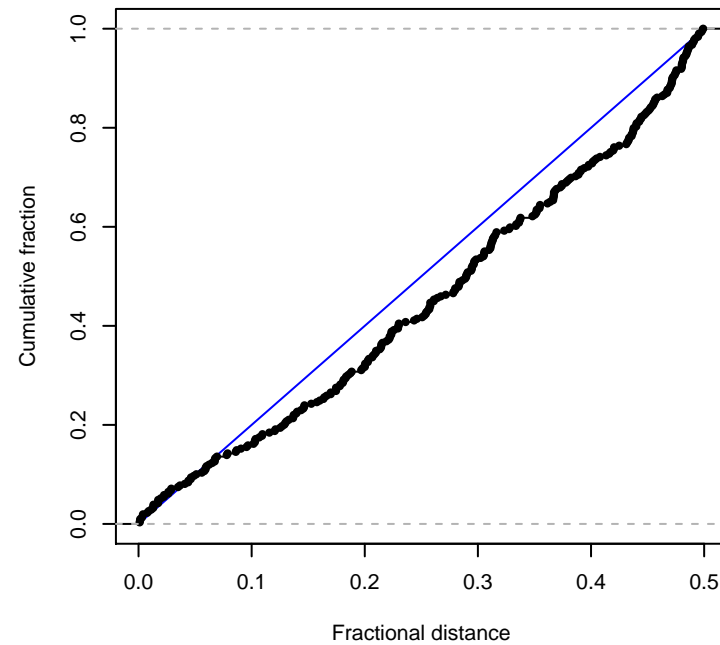
pcontig_044

Query population : 309
Reference population : 126
Relative Ks p-value : 0.00494066
Relative ecdf deviation area : 0.0275233
Relative ecdf area correlation : -0.108765
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 : 0.000642919
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.72813

Absolute distances

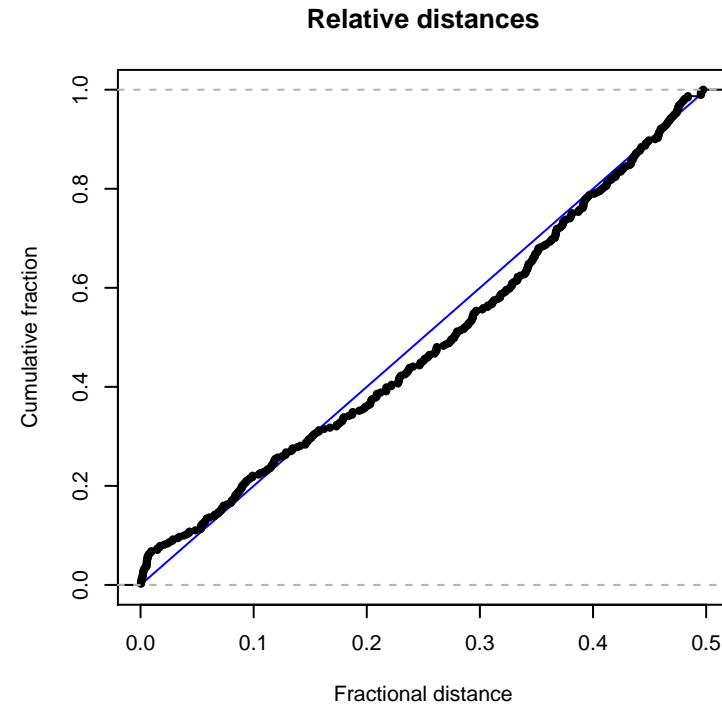
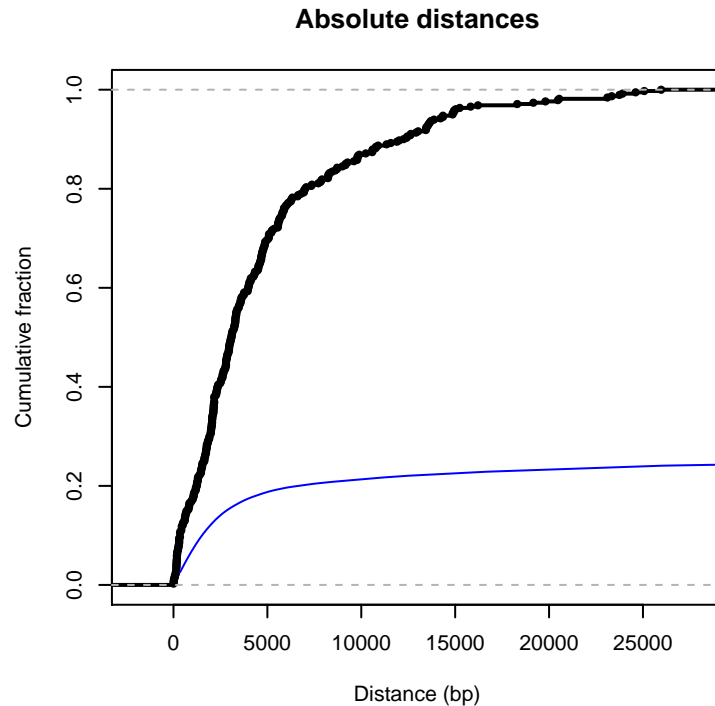


Relative distances



pcontig_045

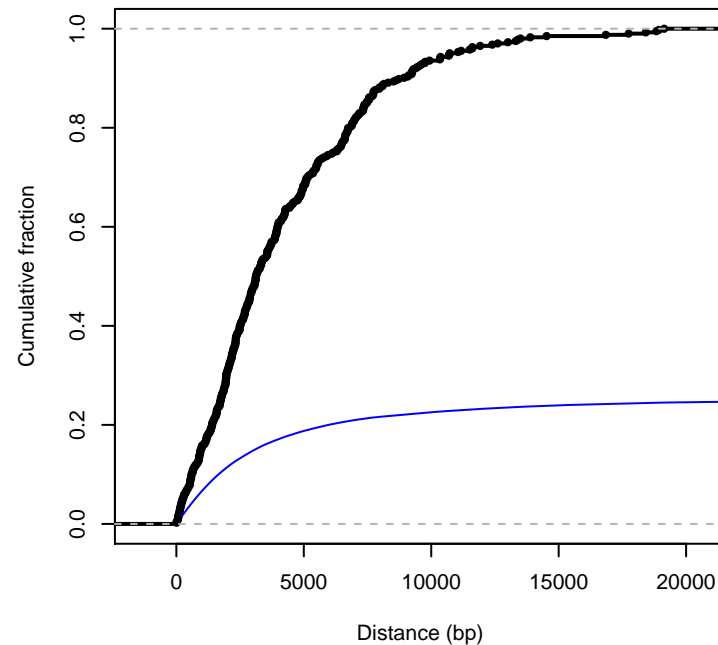
Query population : 381
Reference population : 113
Relative Ks p-value : 0.134623
Relative ecdf deviation area : 0.0126711
Relative ecdf area correlation : -0.0294422
Relative ecdf deviation area p-value : 0.09
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0011506
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.64073



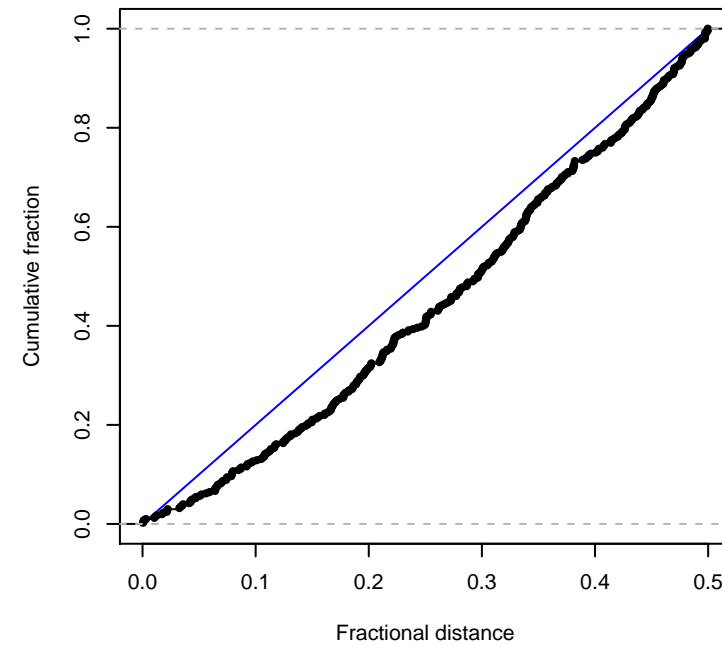
pcontig_046

Query population : 404
Reference population : 110
Relative Ks p-value : 0.000247186
Relative ecdf deviation area : 0.0316137
Relative ecdf area correlation : -0.125592
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 : 0.00852032
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.53423

Absolute distances

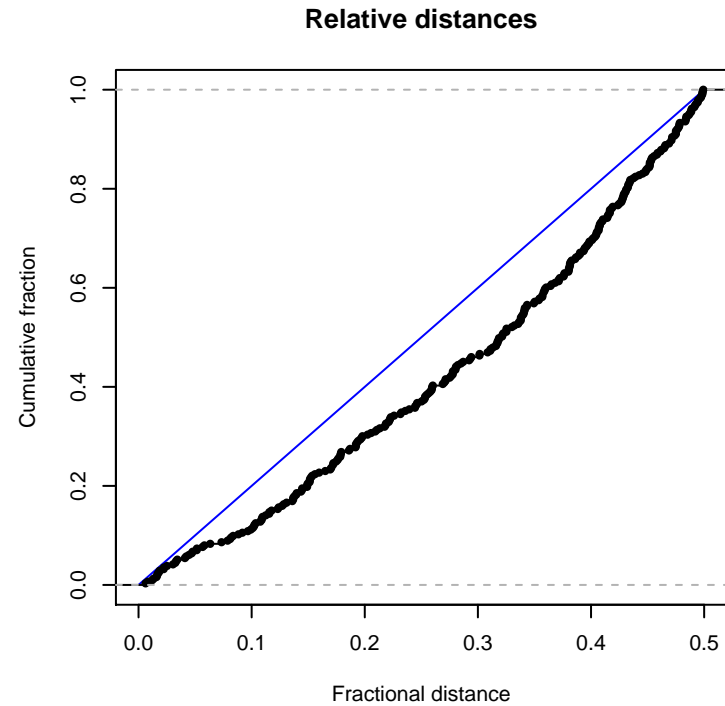
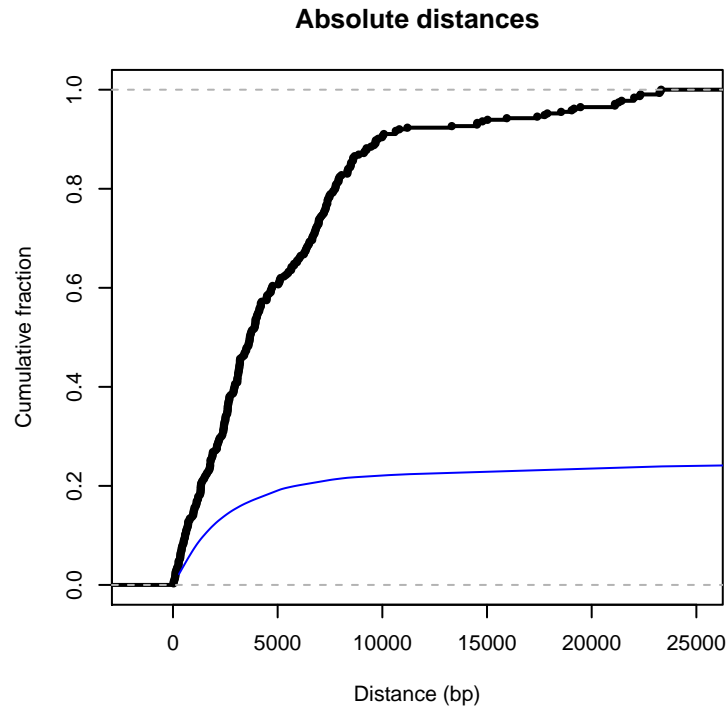


Relative distances



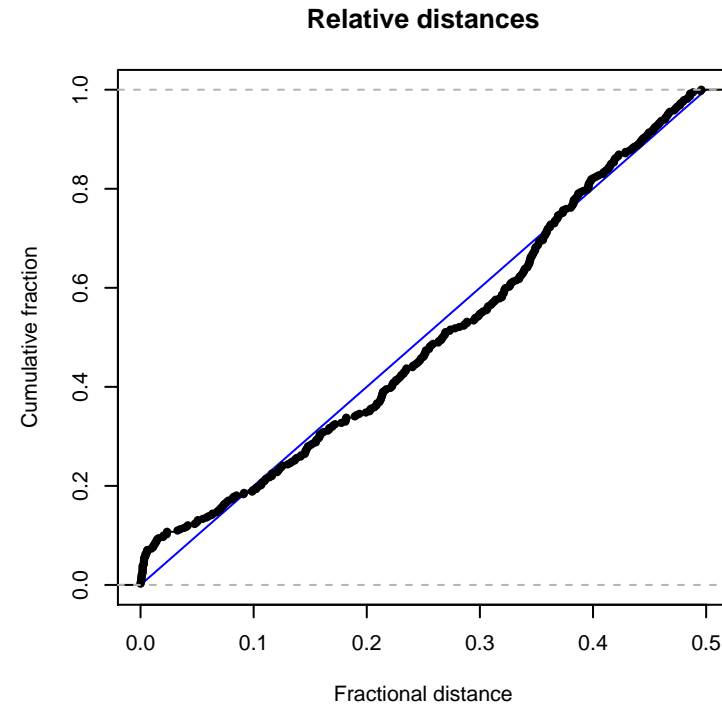
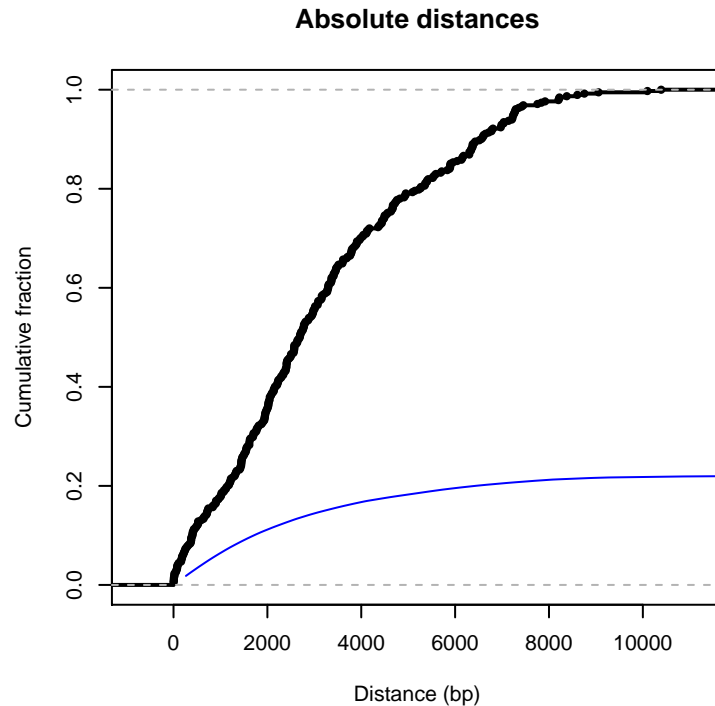
pcontig_047

Query population : 313
Reference population : 117
Relative Ks p-value : 9.46369e-07
Relative ecdf deviation area : 0.0442998
Relative ecdf area correlation : -0.177759
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 : 0.115508
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.23043



pcontig_048

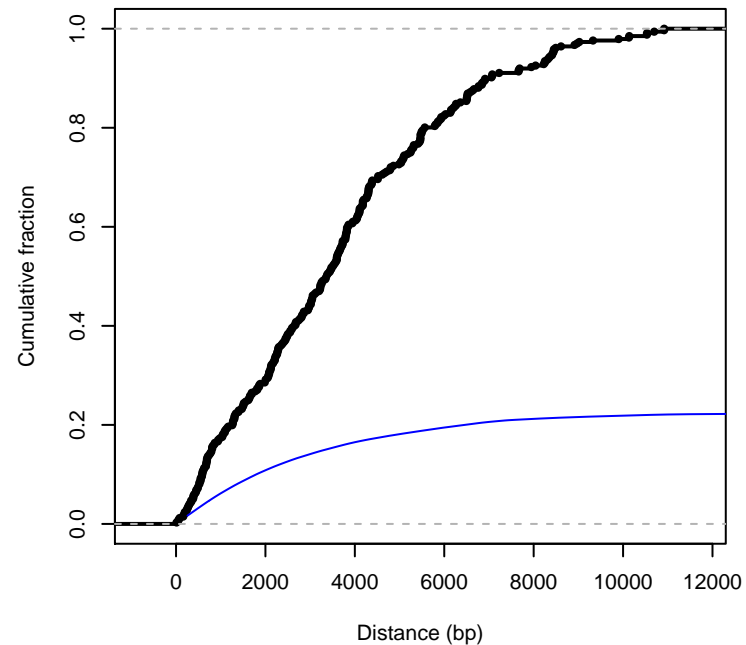
Query population : 382
Reference population : 106
Relative Ks p-value : 0.100694
Relative ecdf deviation area : 0.0136921
Relative ecdf area correlation : -0.0184008
Relative ecdf deviation area p-value : 0.08
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.23451e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.16266



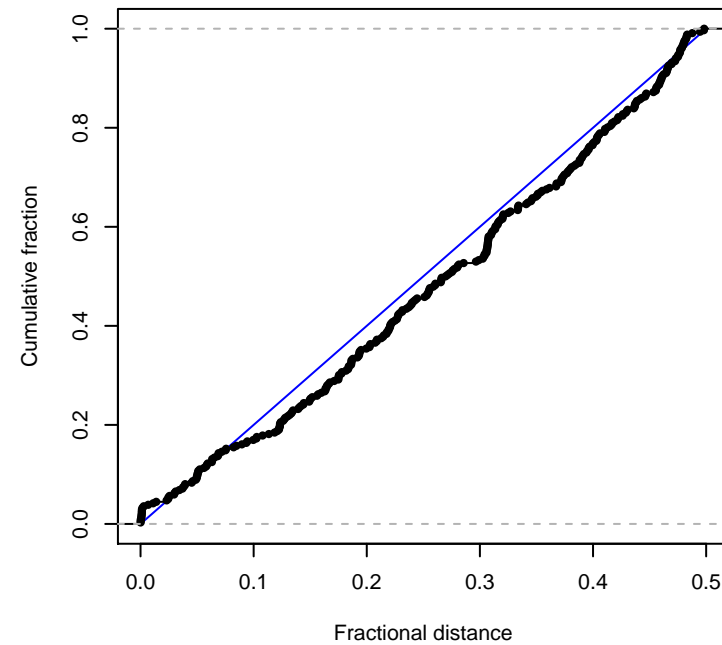
pcontig_049

Query population : 336
Reference population : 100
Relative Ks p-value : 0.0595766
Relative ecdf deviation area : 0.0160418
Relative ecdf area correlation : -0.060421
Relative ecdf deviation area p-value : 0.07
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 : 0.11628
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.24029

Absolute distances

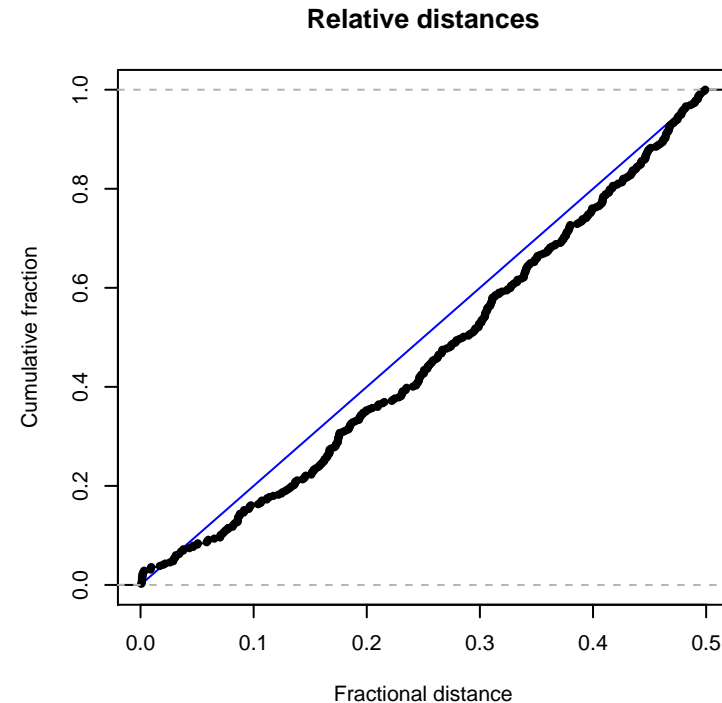
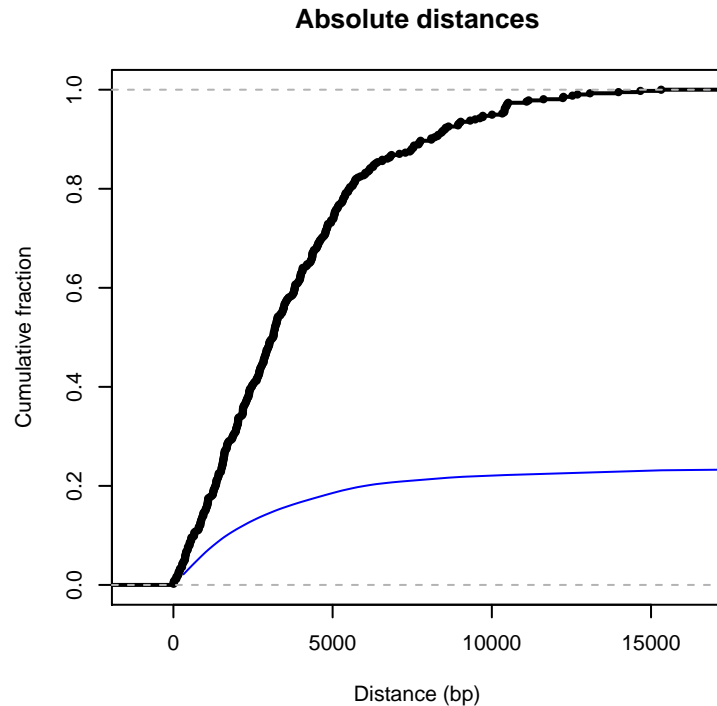


Relative distances



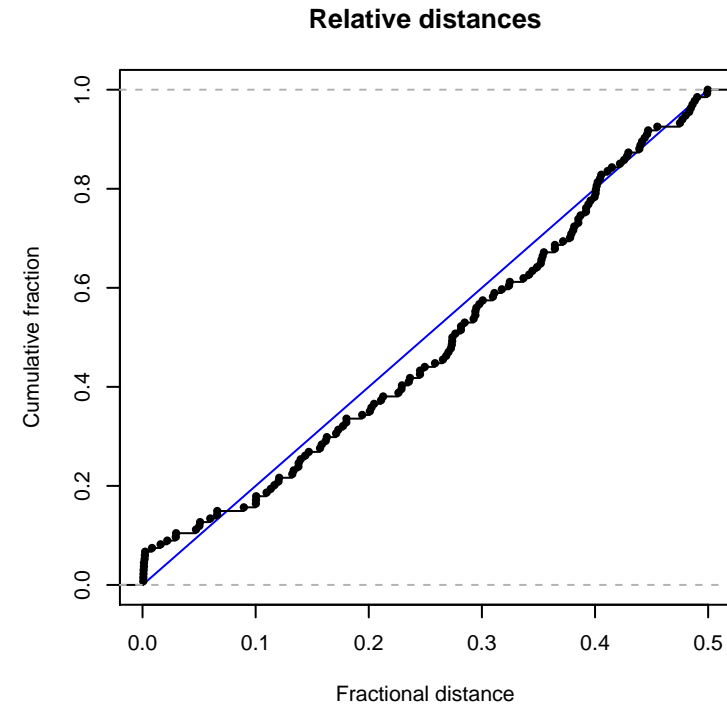
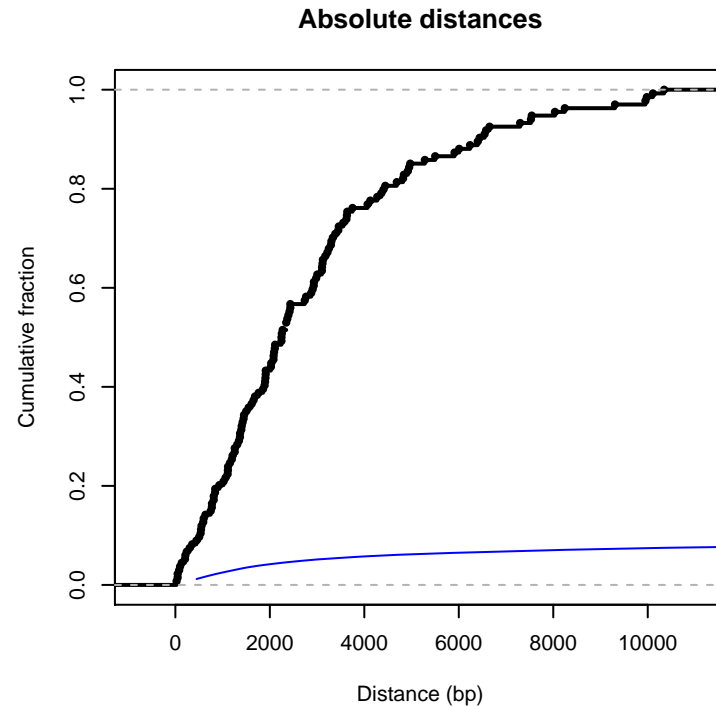
pcontig_050

Query population : 417
Reference population : 104
Relative Ks p-value : 0.00385204
Relative ecdf deviation area : 0.0228551
Relative ecdf area correlation : -0.0887715
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 : 0.101292
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.24733



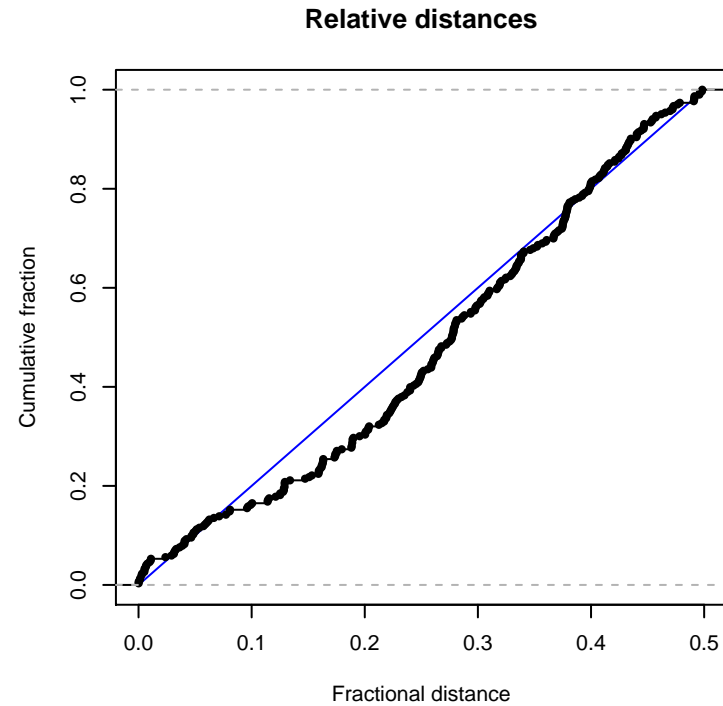
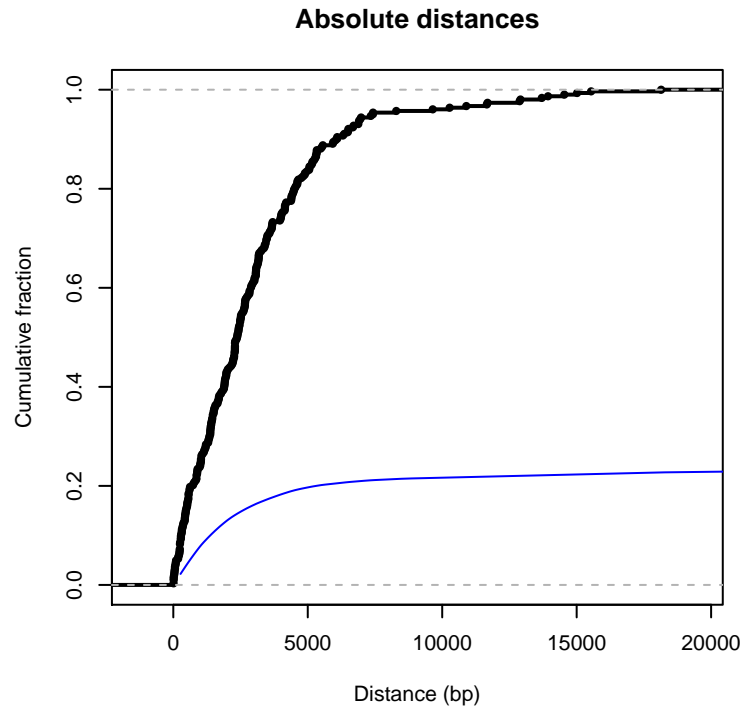
pcontig_051

Query population : 134
Reference population : 41
Relative Ks p-value : 0.308991
Relative ecdf deviation area : 0.0180033
Relative ecdf area correlation : -0.0492036
Relative ecdf deviation area p-value : 0.15
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 : 1.37327e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.48489



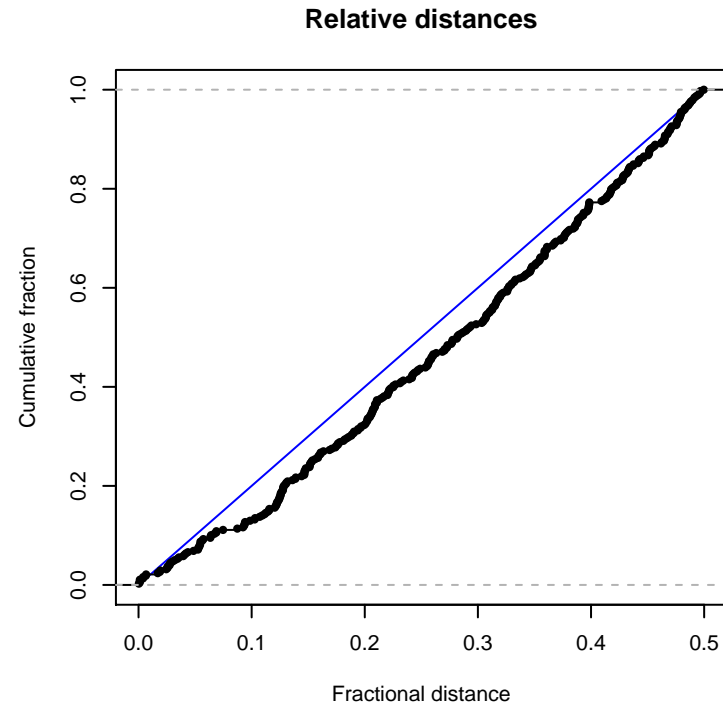
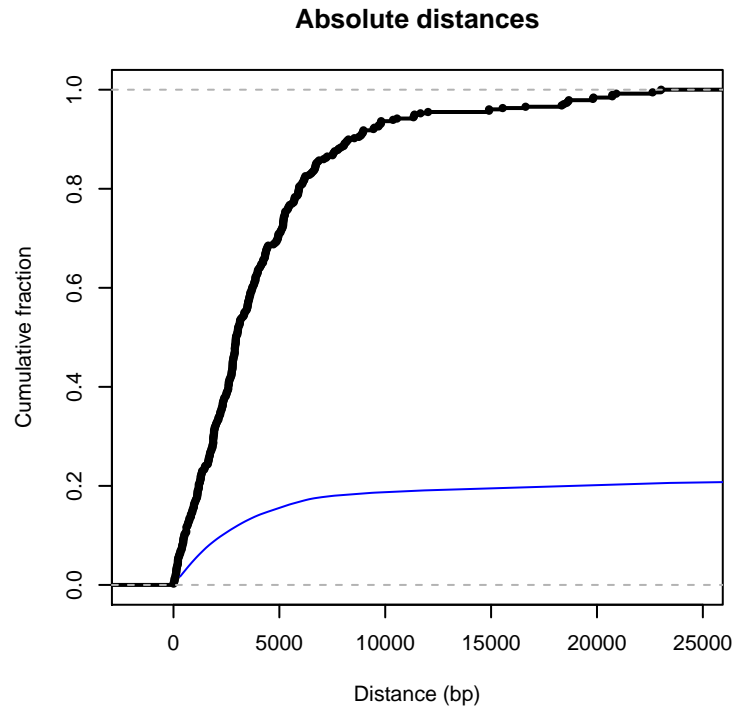
pcontig_052

Query population : 303
Reference population : 127
Relative Ks p-value : 0.00182251
Relative ecdf deviation area : 0.0197019
Relative ecdf area correlation : -0.0613426
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 : 6.7963e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.45962



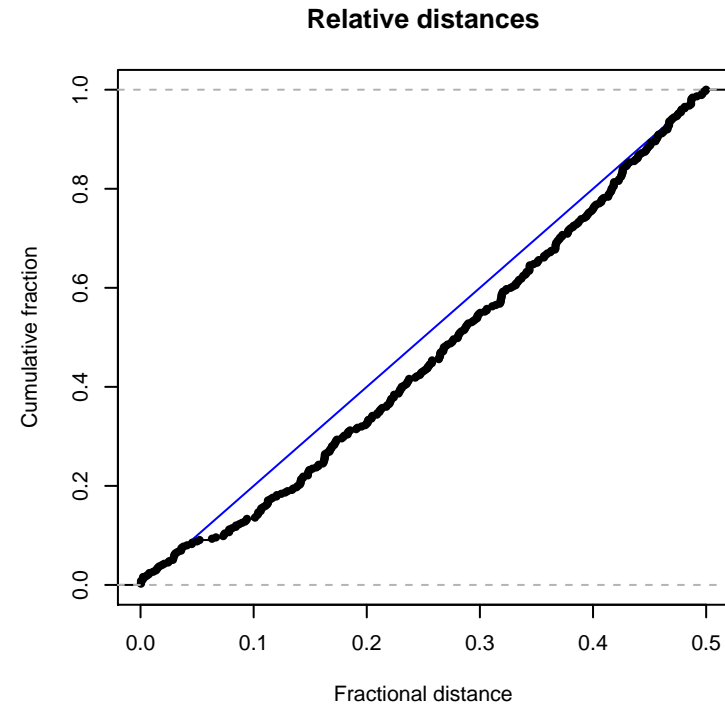
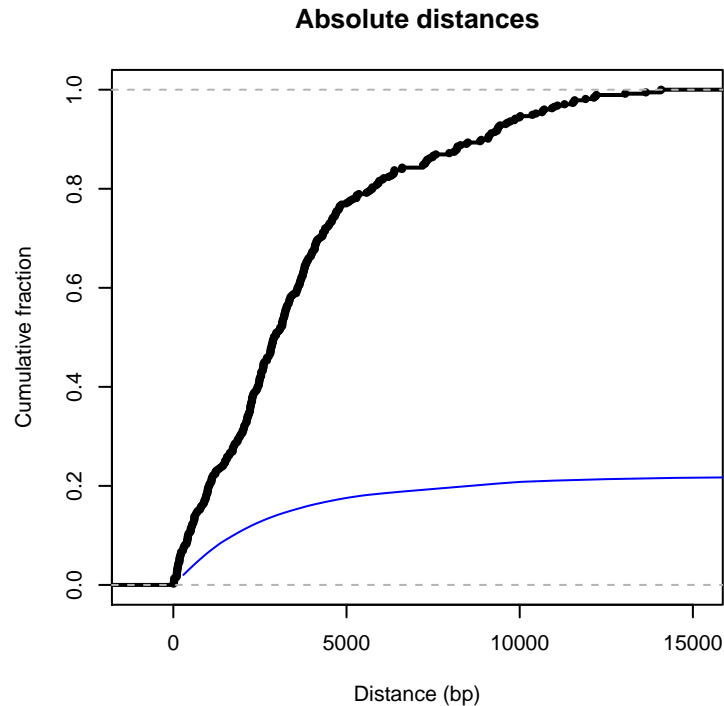
pcontig_054

Query population : 378
Reference population : 83
Relative Ks p-value : 0.00635302
Relative ecdf deviation area : 0.0242431
Relative ecdf area correlation : -0.0961311
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 : 5.78731e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.23313



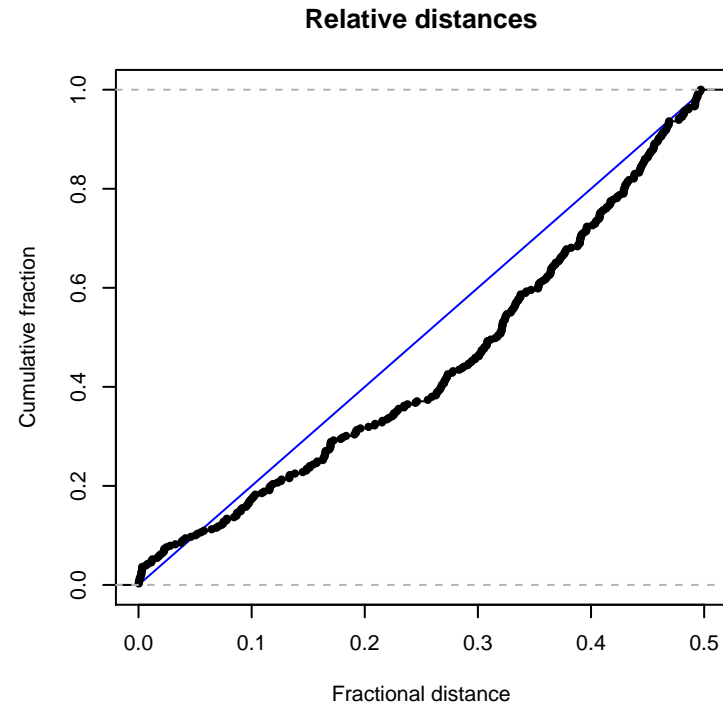
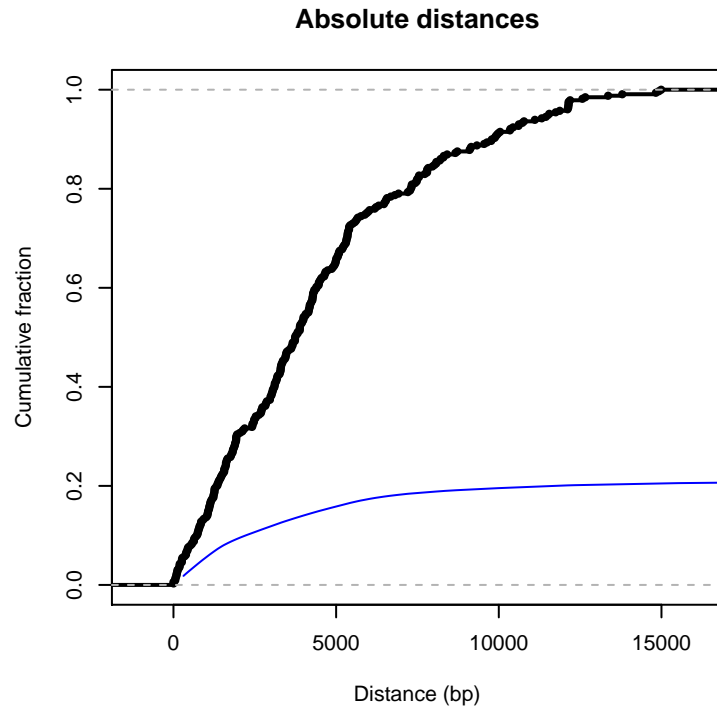
pcontig_055

Query population : 375
Reference population : 107
Relative Ks p-value : 0.0135773
Relative ecdf deviation area : 0.0224003
Relative ecdf area correlation : -0.0884896
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 : 2.86948e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.93515



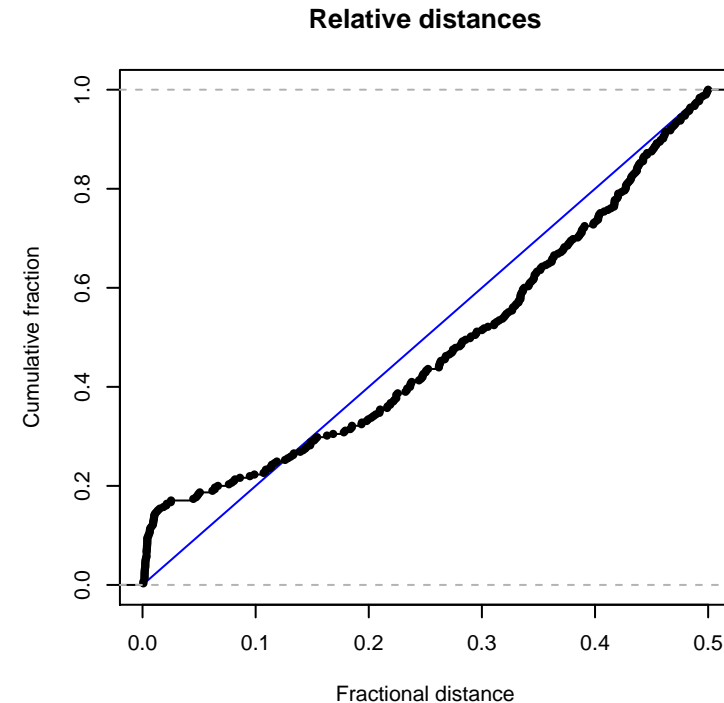
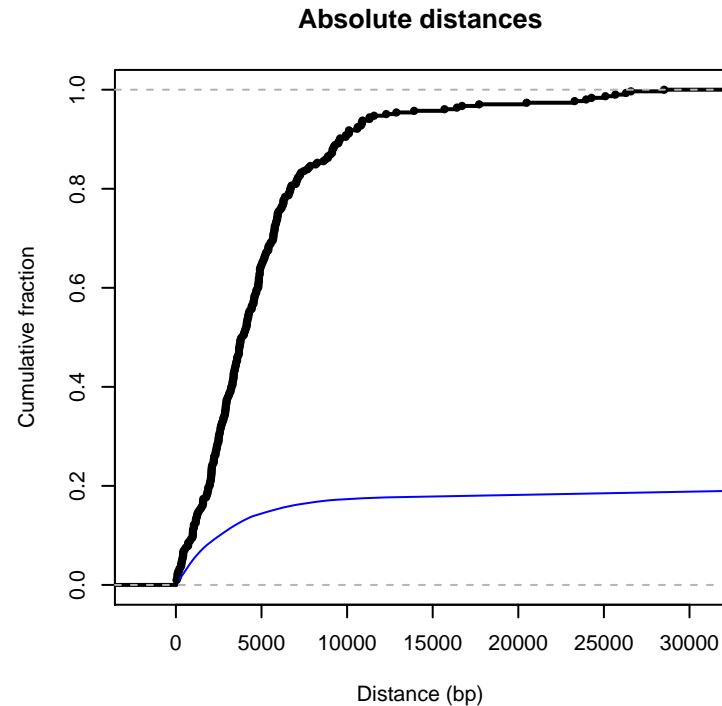
pcontig_056

Query population : 329
Reference population : 91
Relative Ks p-value : 1.72545e-06
Relative ecdf deviation area : 0.0339174
Relative ecdf area correlation : -0.128212
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 : 0.000152857
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.03815



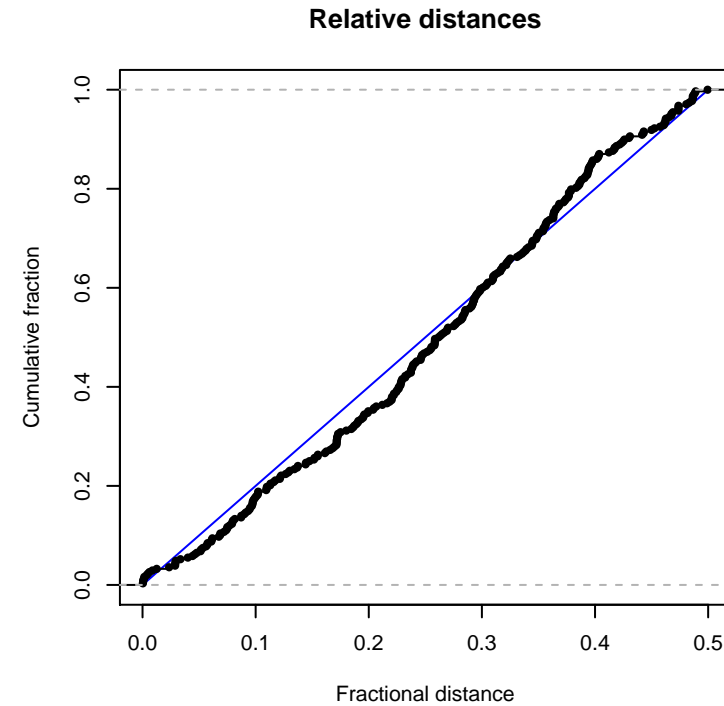
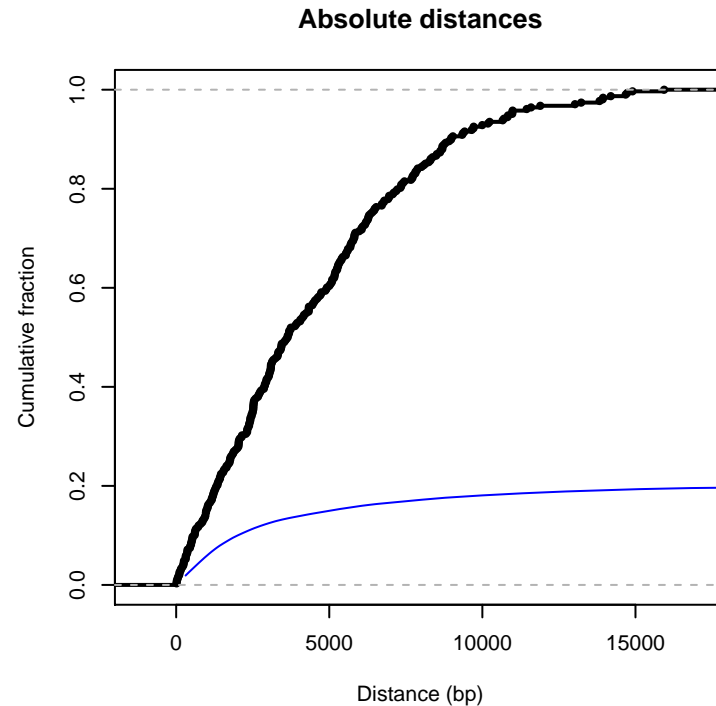
pcontig_057

Query population : 305
Reference population : 81
Relative Ks p-value : 0.000181589
Relative ecdf deviation area : 0.0287805
Relative ecdf area correlation : -0.0516814
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.115138
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.28926



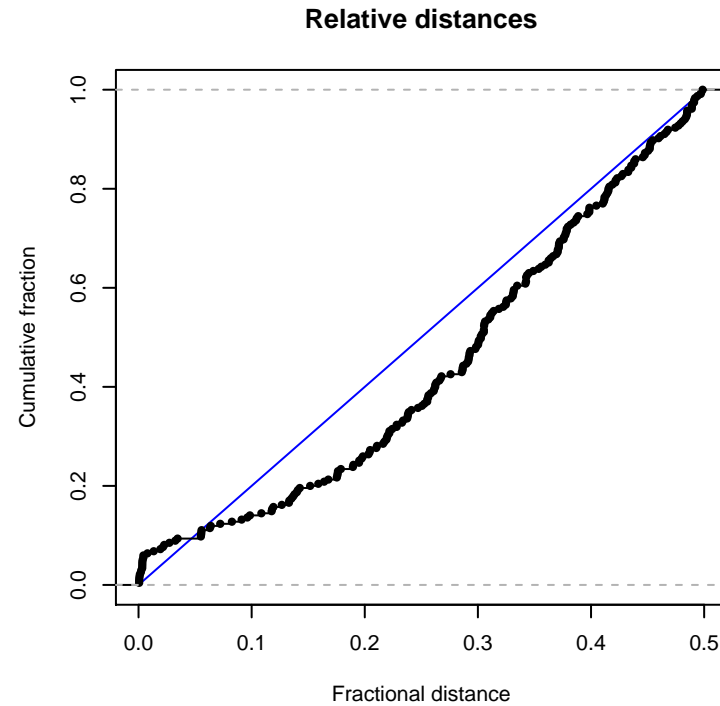
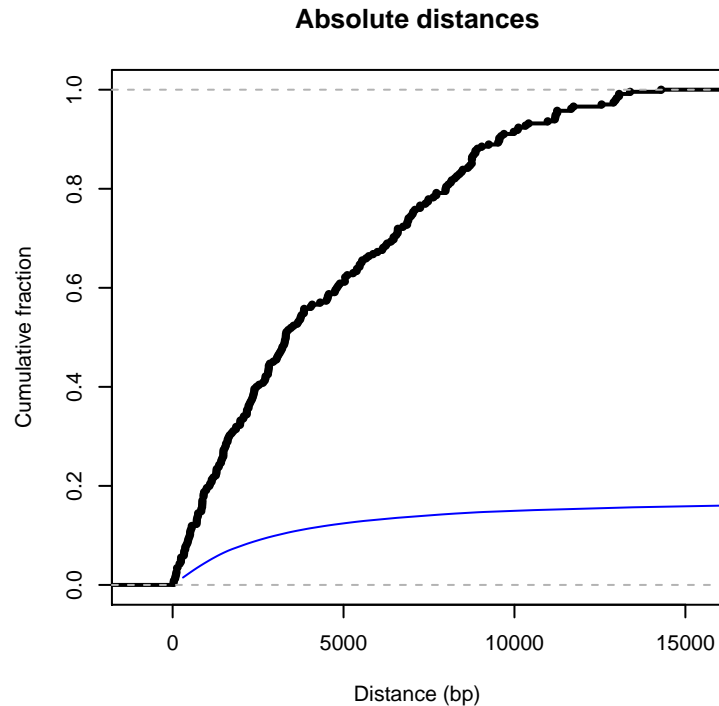
pcontig_058

Query population : 308
Reference population : 95
Relative Ks p-value : 0.0959358
Relative ecdf deviation area : 0.0146431
Relative ecdf area correlation : -0.024648
Relative ecdf deviation area p-value : 0.08
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 : 0.0145399
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.55502



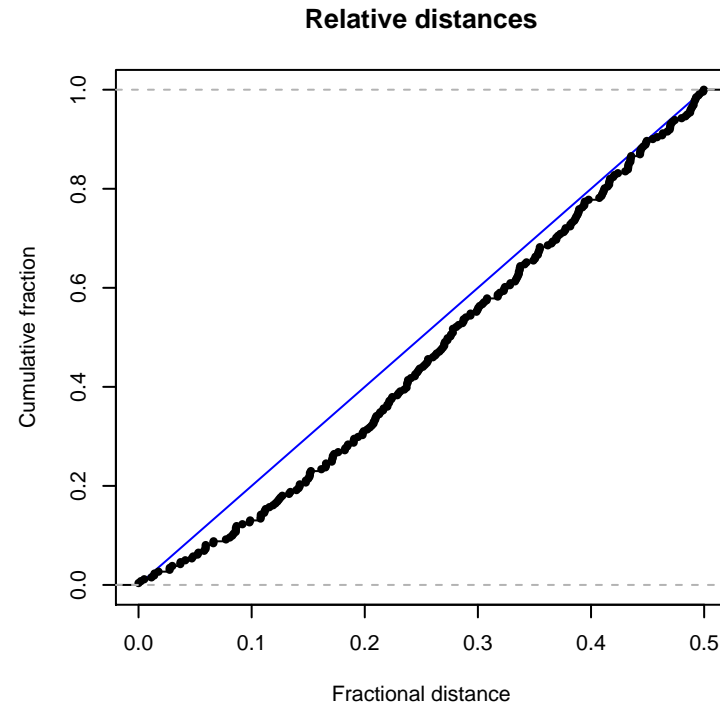
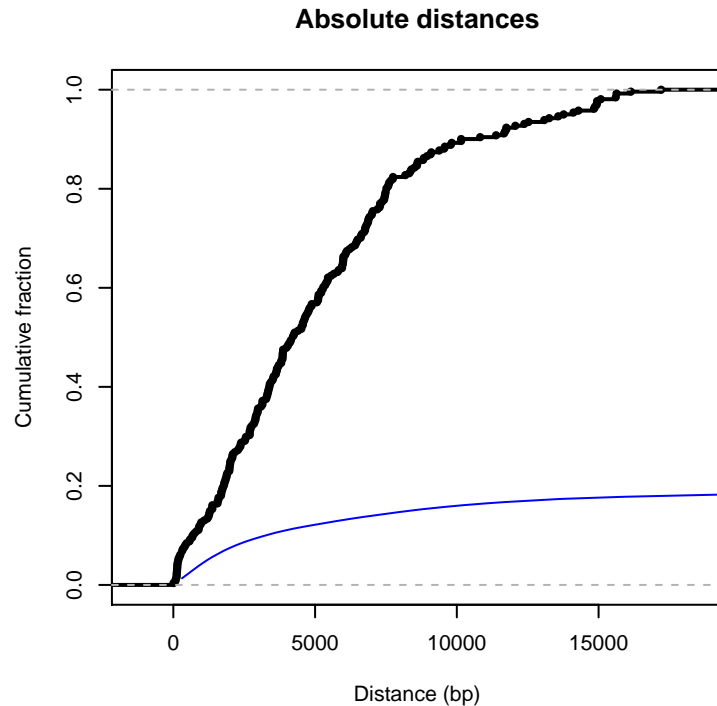
pcontig_059

Query population : 235
Reference population : 76
Relative Ks p-value : 4.17603e-05
Relative ecdf deviation area : 0.0365353
Relative ecdf area correlation : -0.135129
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 : 7.83689e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.2995



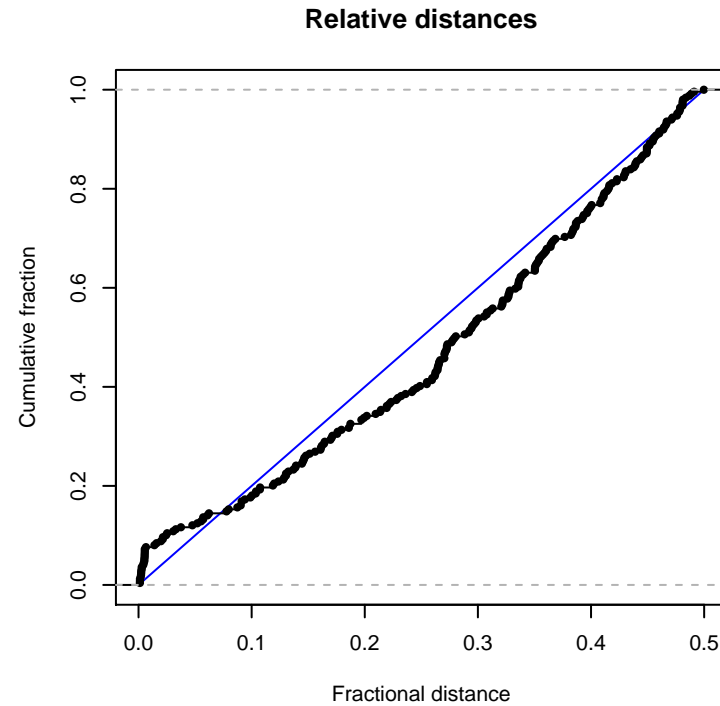
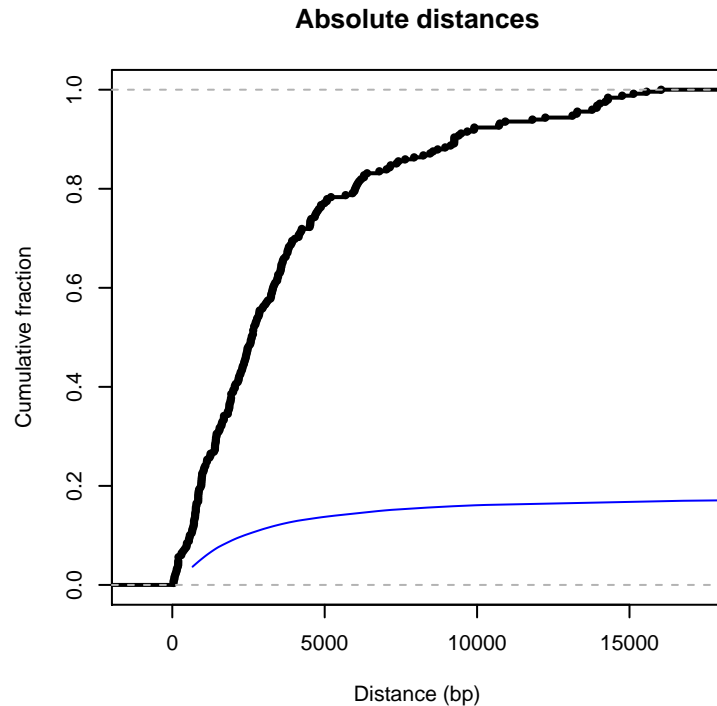
pcontig_060

Query population : 261
Reference population : 67
Relative Ks p-value : 0.0145007
Relative ecdf deviation area : 0.0241721
Relative ecdf area correlation : -0.0980146
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 : 0.00104754
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.95643



pcontig_062

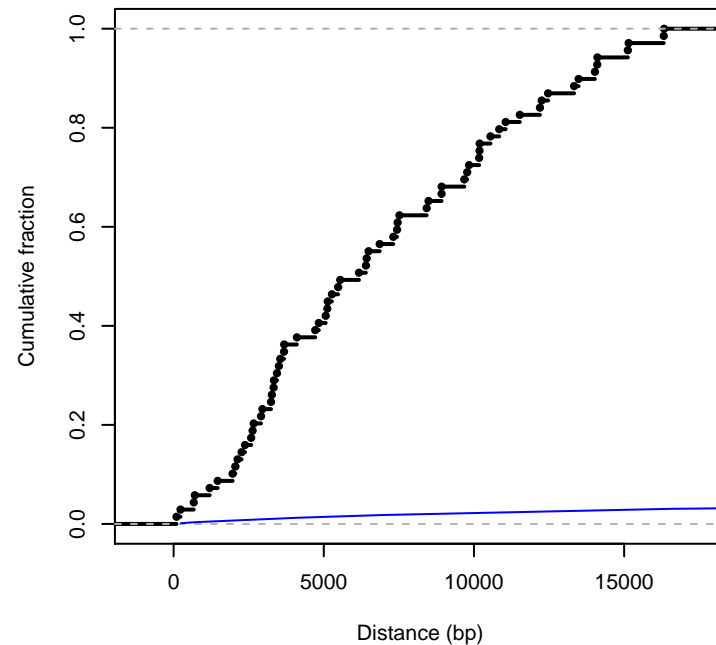
Query population : 249
Reference population : 85
Relative Ks p-value : 0.00536683
Relative ecdf deviation area : 0.0233444
Relative ecdf area correlation : -0.0717191
Relative ecdf deviation area p-value : 0.04
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 7.69168e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.21661



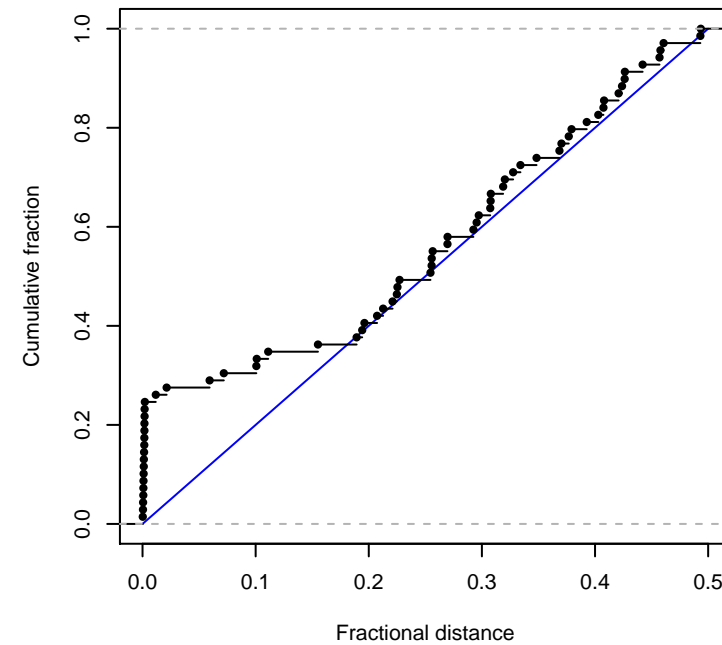
pcontig_063

Query population : 69
Reference population : 9
Relative Ks p-value : 0.000474267
Relative ecdf deviation area : 0.0312248
Relative ecdf area correlation : 0.120225
Relative ecdf deviation area p-value : 0.07
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 : 5.73315e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.6607

Absolute distances

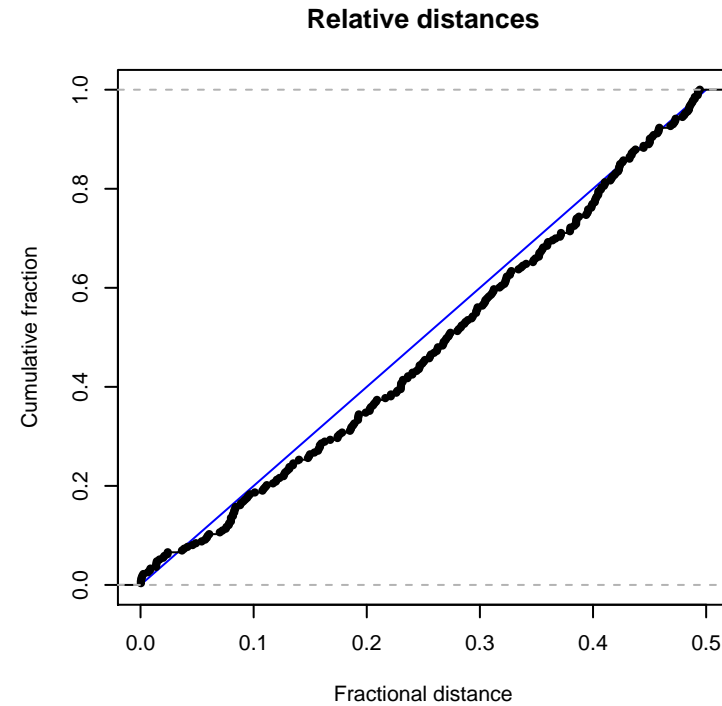
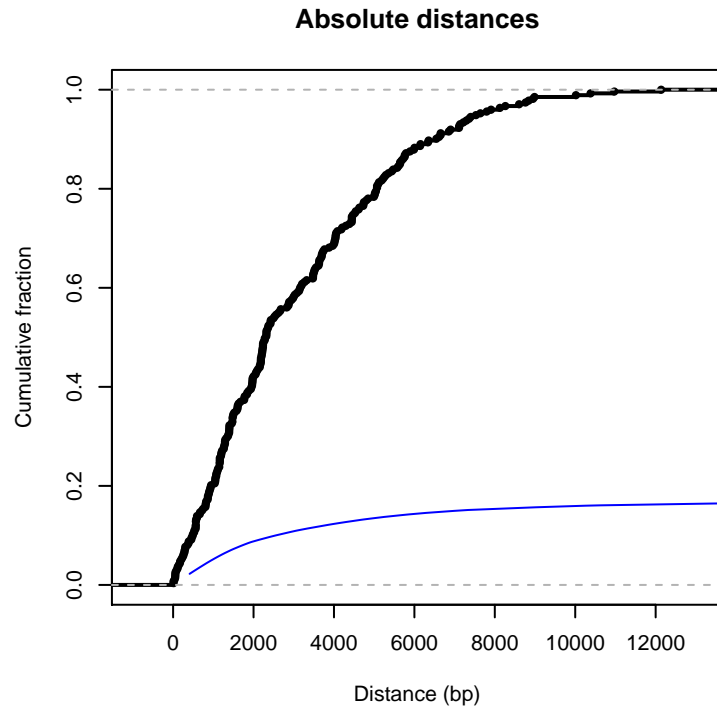


Relative distances



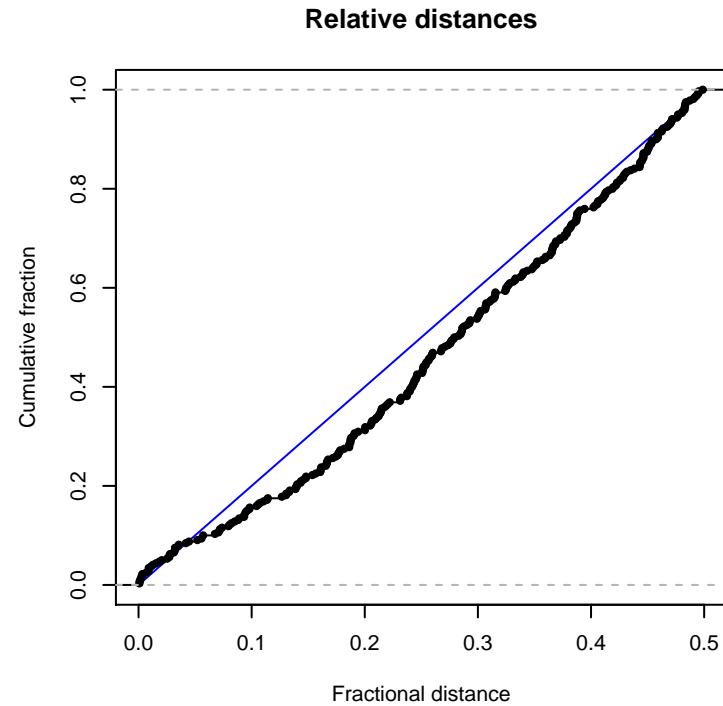
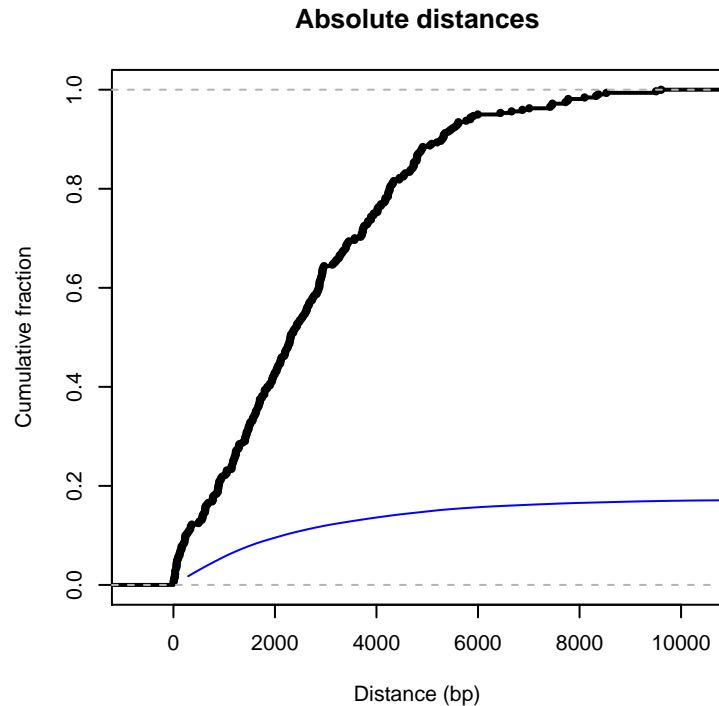
pcontig_064

Query population : 273
Reference population : 84
Relative Ks p-value : 0.159235
Relative ecdf deviation area : 0.0150519
Relative ecdf area correlation : -0.0569495
Relative ecdf deviation area p-value : 0.05
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 : 1.72196e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.69944



pcontig_065

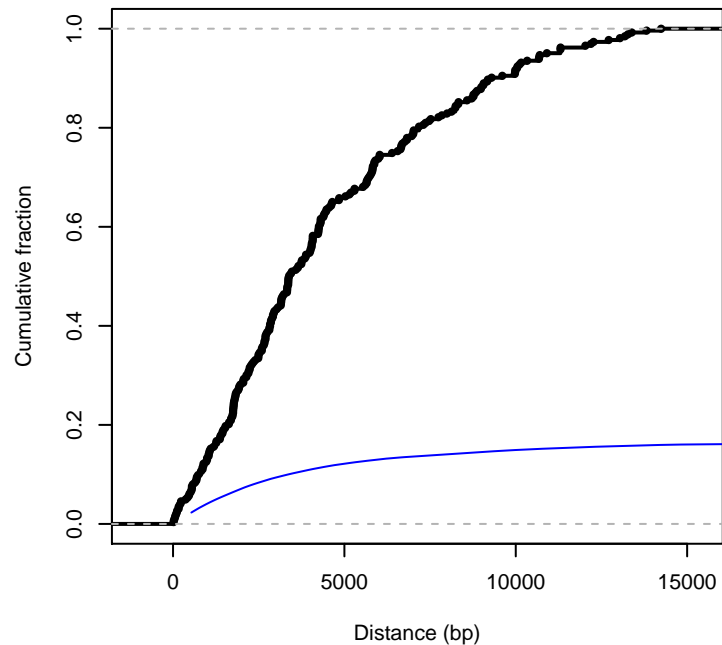
Query population : 320
Reference population : 93
Relative Ks p-value : 0.00461927
Relative ecdf deviation area : 0.0242204
Relative ecdf area correlation : -0.094126
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.50381e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.87791



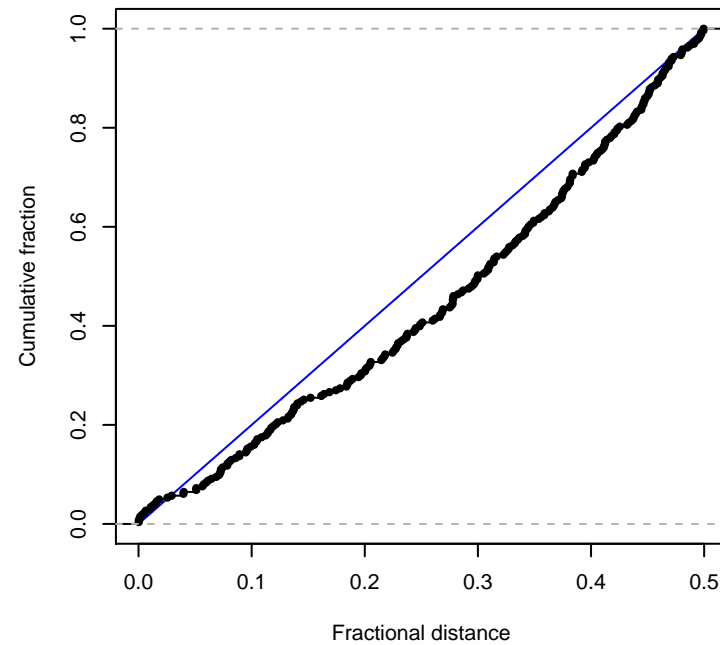
pcontig_066

Query population : 263
Reference population : 66
Relative Ks p-value : 0.00128879
Relative ecdf deviation area : 0.0315987
Relative ecdf area correlation : -0.124558
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 : 0.00301705
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.06126

Absolute distances

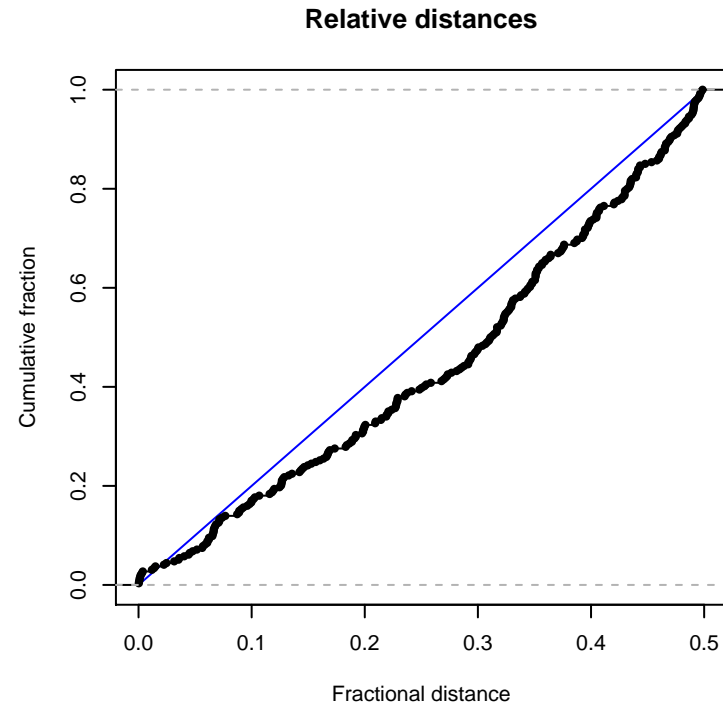
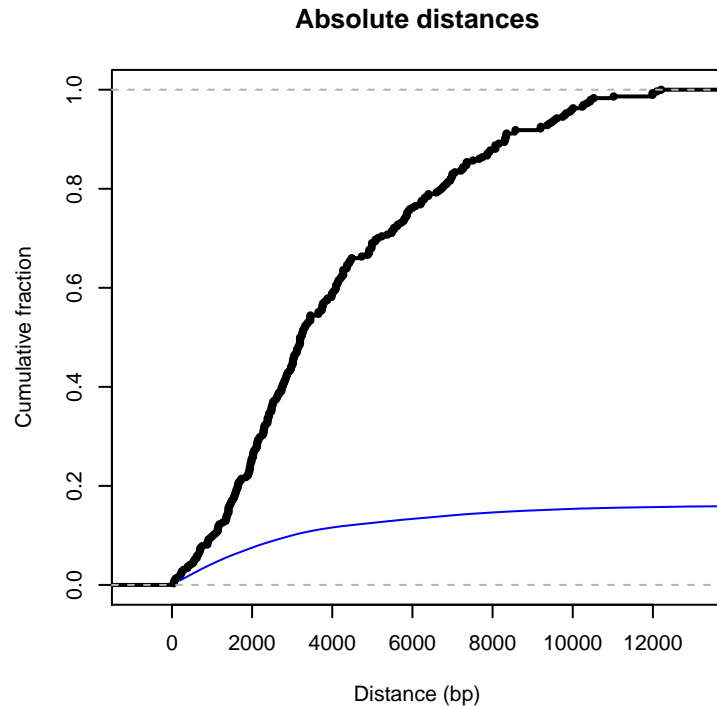


Relative distances



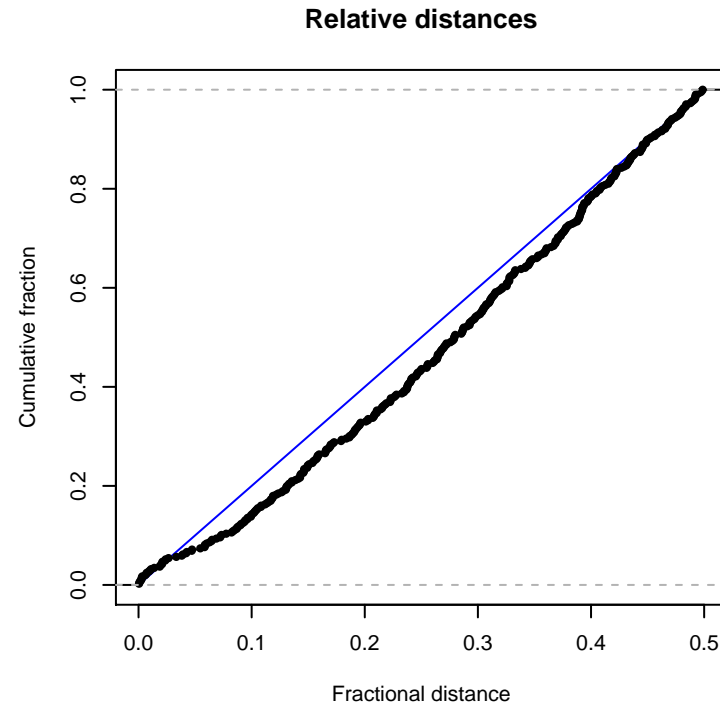
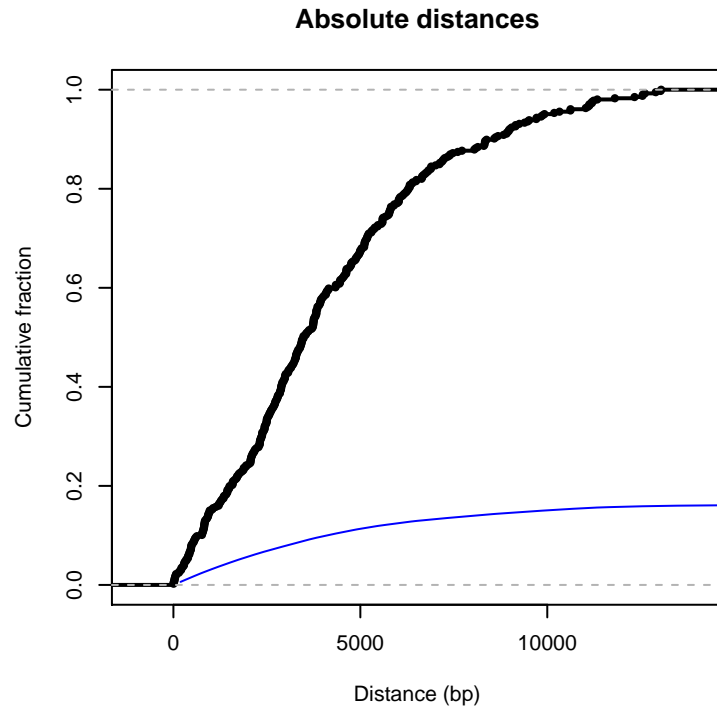
pcontig_067

Query population : 294
Reference population : 69
Relative Ks p-value : 1.77804e-05
Relative ecdf deviation area : 0.0335231
Relative ecdf area correlation : -0.131326
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 : 0.133917
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.29613



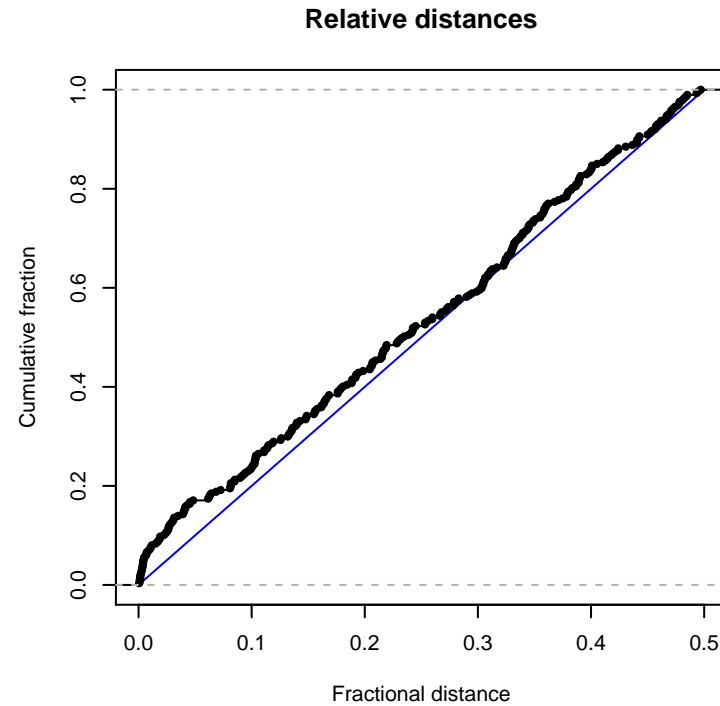
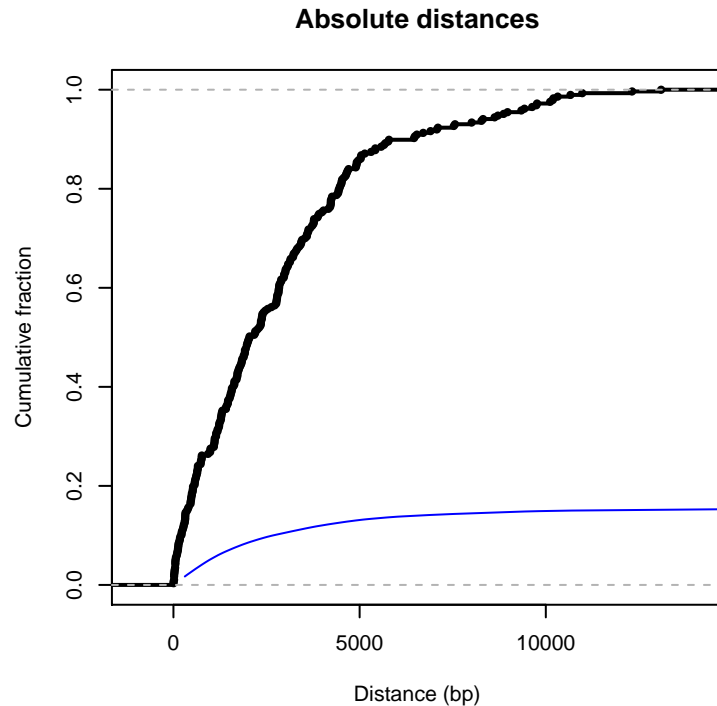
pcontig_068

Query population : 406
Reference population : 50
Relative Ks p-value : 0.00790455
Relative ecdf deviation area : 0.0213066
Relative ecdf area correlation : -0.0841329
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 : 2.11631e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.44186



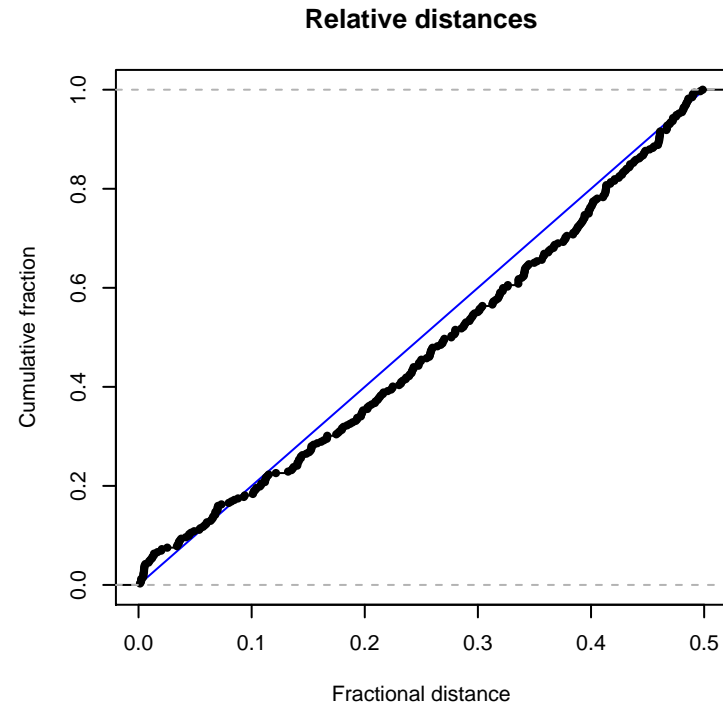
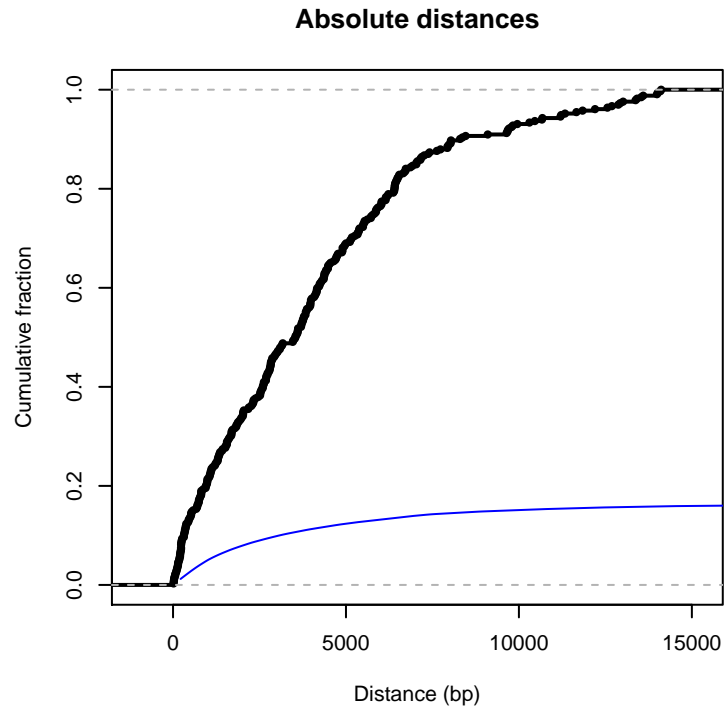
pcontig_069

Query population : 287
Reference population : 86
Relative Ks p-value : 0.070517
Relative ecdf deviation area : 0.0154009
Relative ecdf area correlation : 0.0611533
Relative ecdf deviation area p-value : 0.05
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 : 4.67115



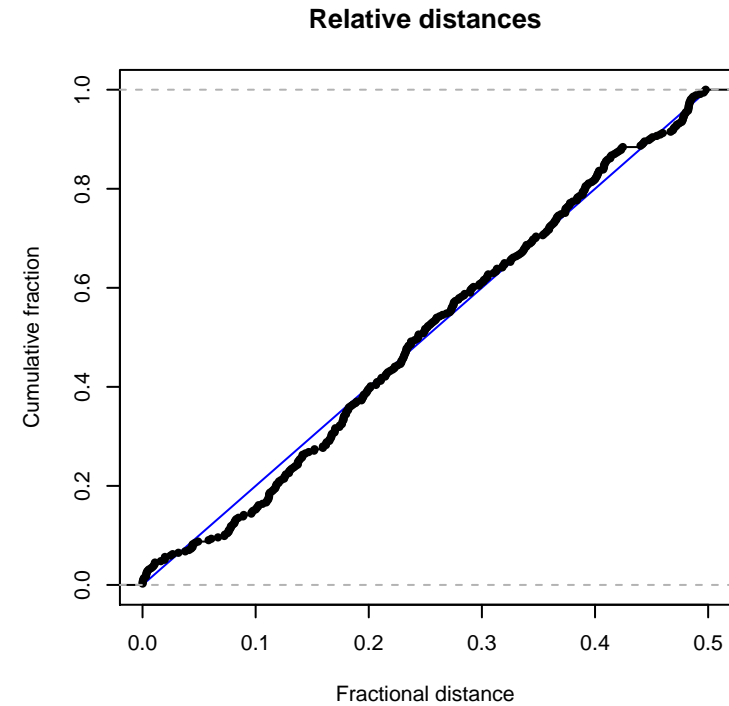
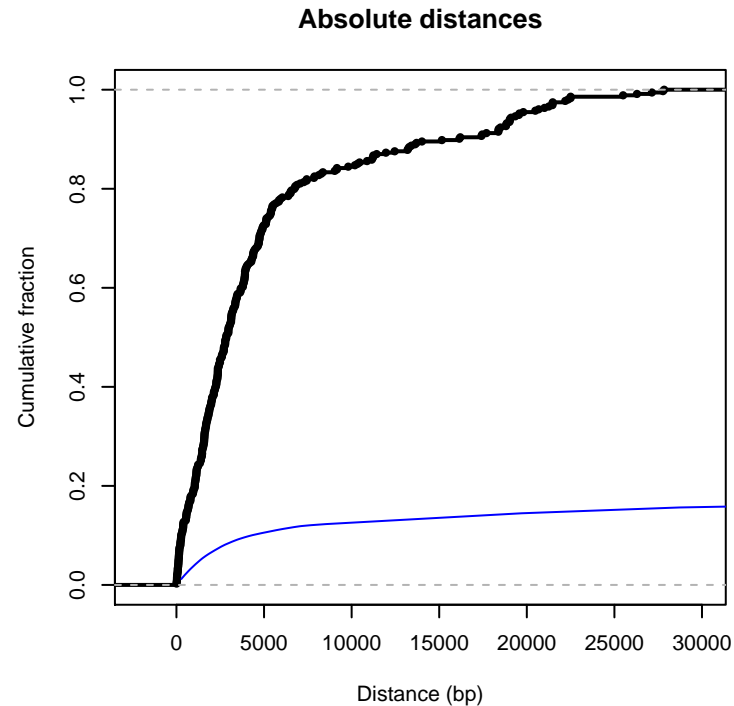
pcontig_070

Query population : 332
Reference population : 85
Relative Ks p-value : 0.110608
Relative ecdf deviation area : 0.0169161
Relative ecdf area correlation : -0.0580964
Relative ecdf deviation area p-value : 0.03
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 : 1.03206e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.68581



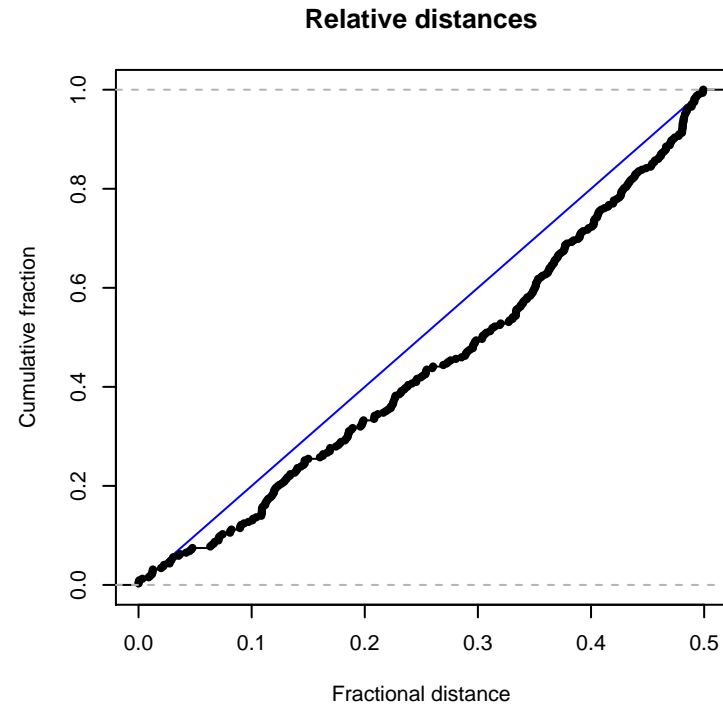
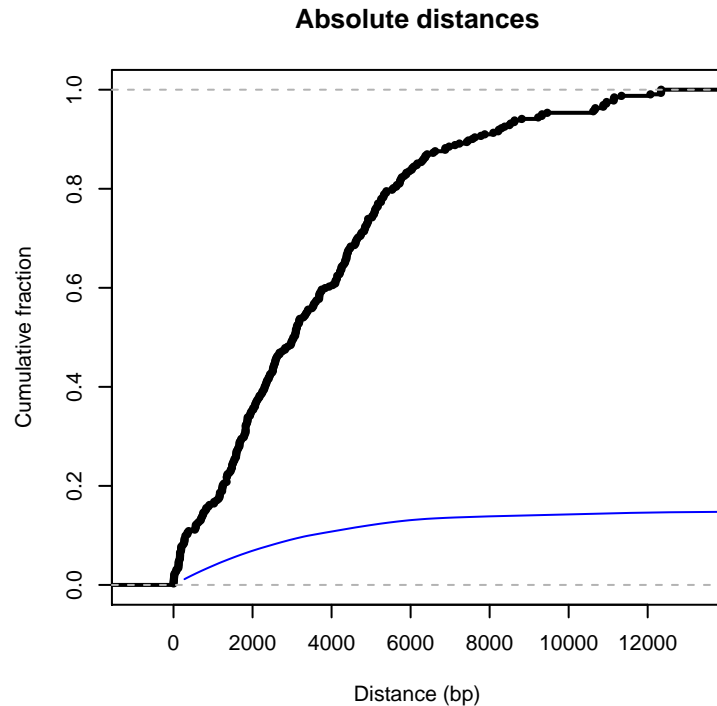
pcontig_072

Query population : 354
Reference population : 66
Relative Ks p-value : 0.238331
Relative ecdf deviation area : 0.00936825
Relative ecdf area correlation : -0.00987101
Relative ecdf deviation area p-value : 0.25
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 : 4.63014



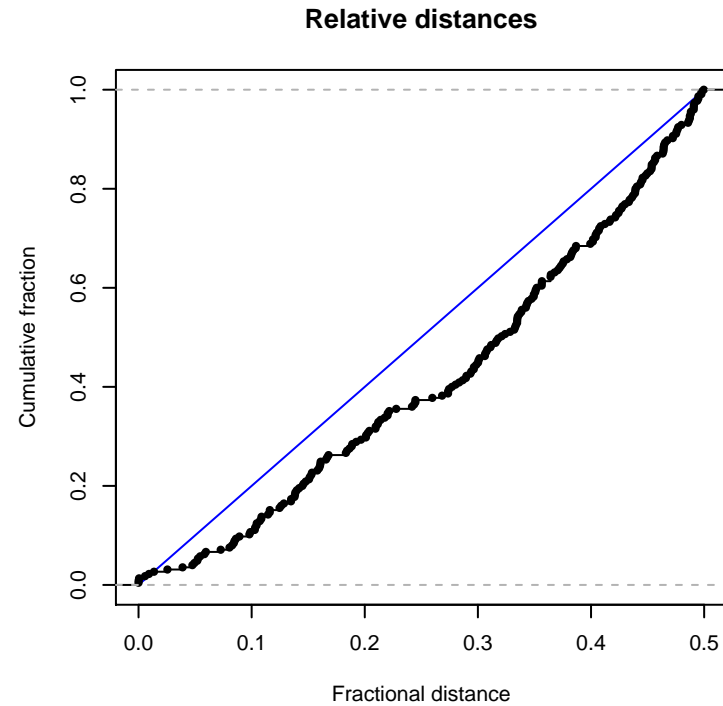
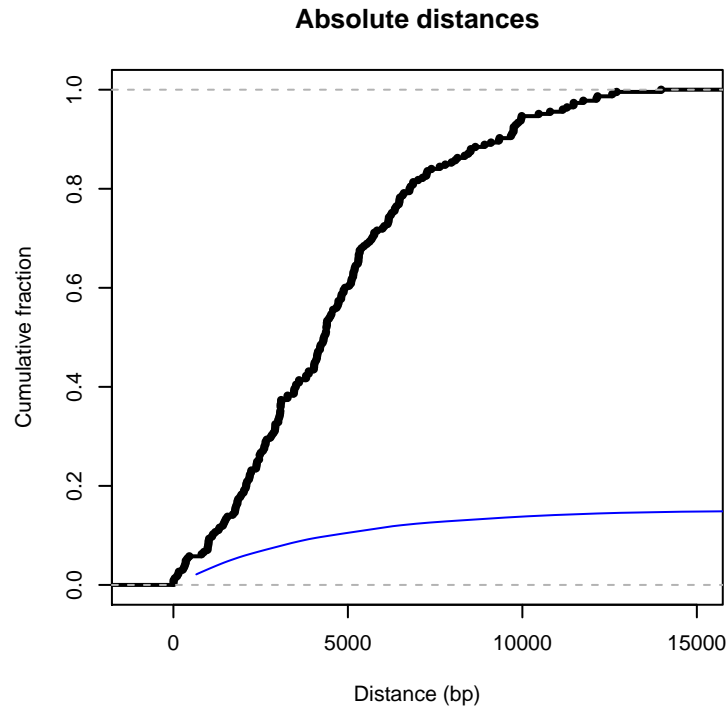
pcontig_073

Query population : 322
Reference population : 65
Relative Ks p-value : 6.07555e-05
Relative ecdf deviation area : 0.0333372
Relative ecdf area correlation : -0.130887
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 : 1.96903e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.41593



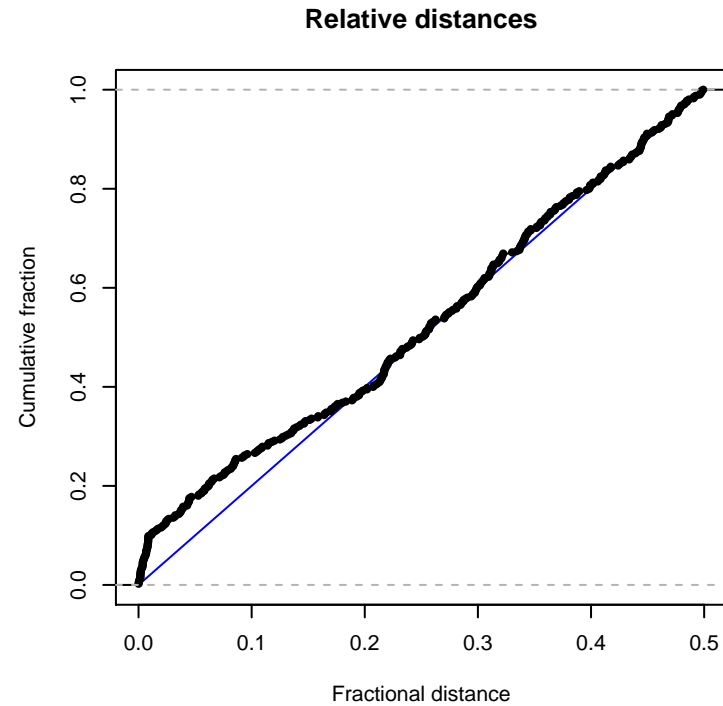
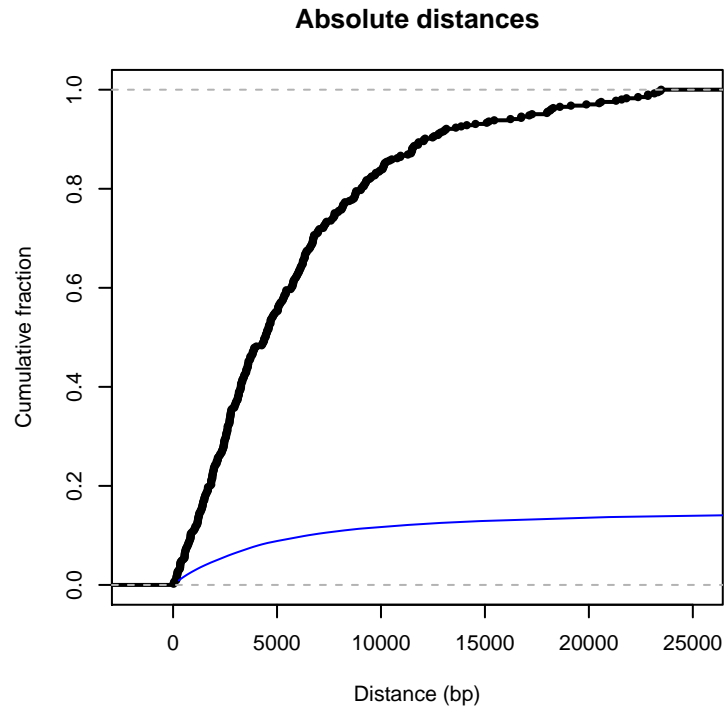
pcontig_074

Query population : 225
Reference population : 50
Relative Ks p-value : 9.00367e-06
Relative ecdf deviation area : 0.0456621
Relative ecdf area correlation : -0.182839
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 : 0.00368394
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.19994



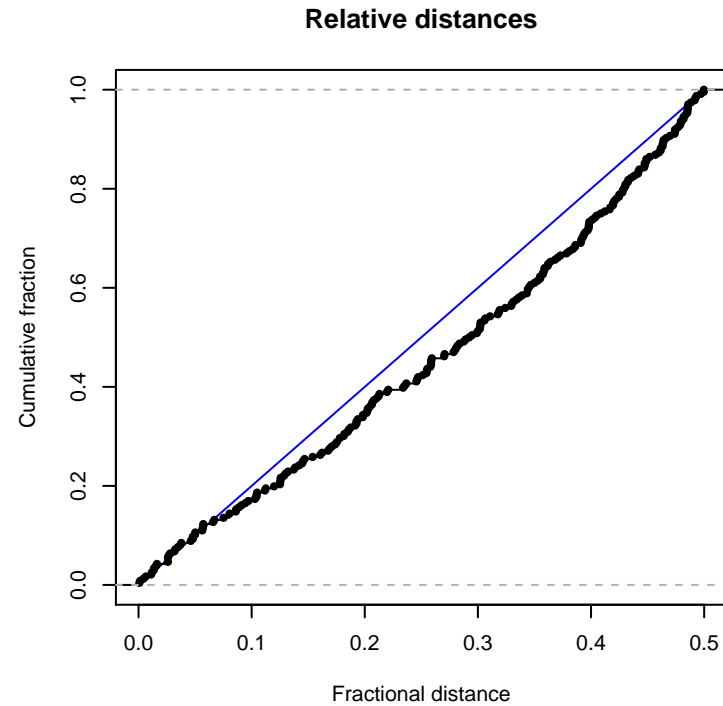
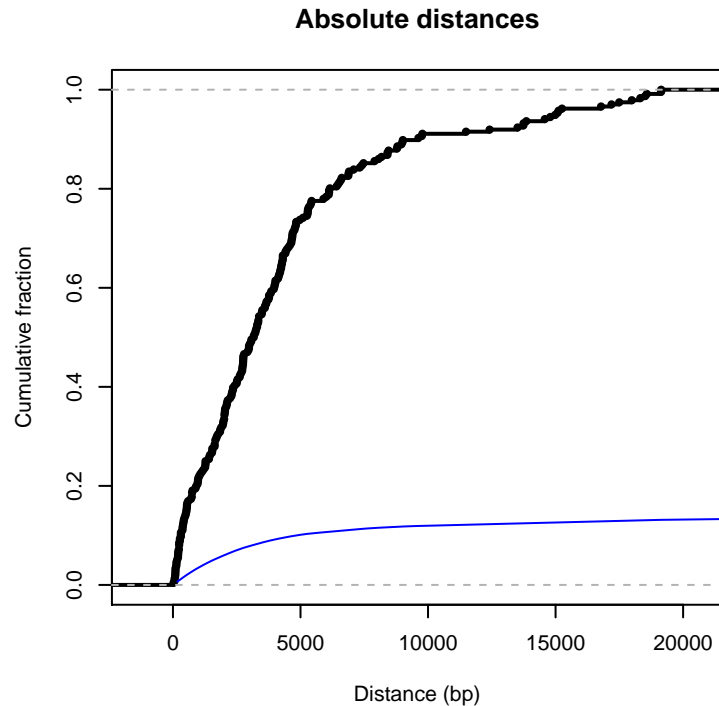
pcontig_075

Query population : 405
Reference population : 51
Relative Ks p-value : 0.00552047
Relative ecdf deviation area : 0.0129133
Relative ecdf area correlation : 0.0456117
Relative ecdf deviation area p-value : 0.11
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 : 1.45943e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.64434



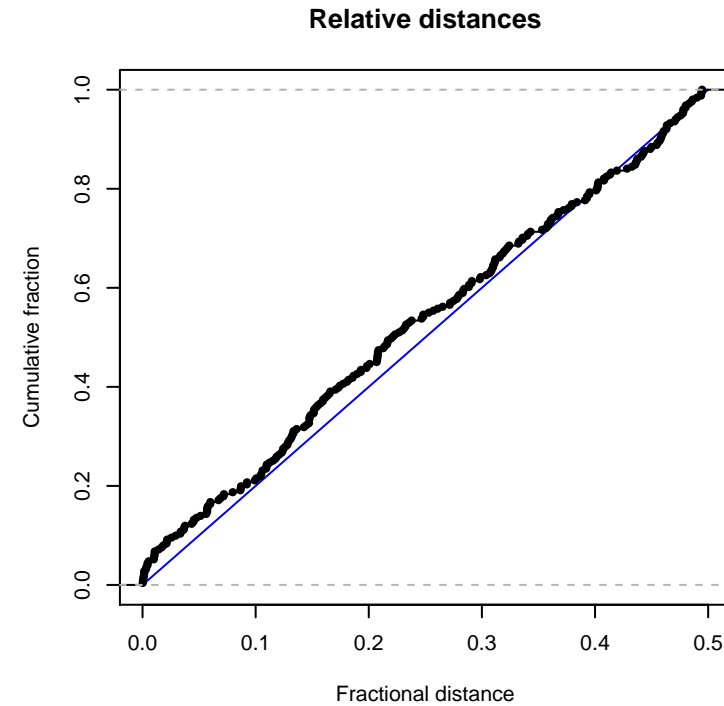
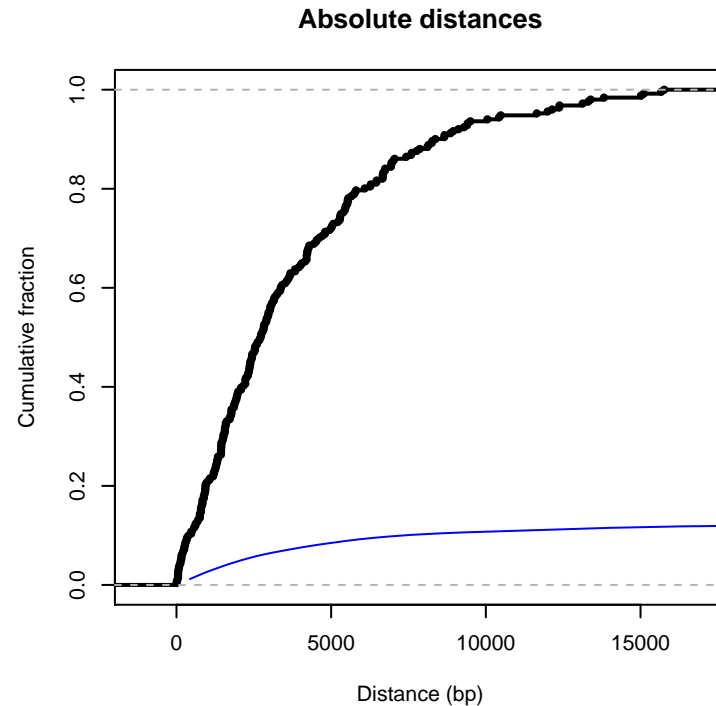
pcontig_077

Query population : 236
Reference population : 59
Relative Ks p-value : 0.0152438
Relative ecdf deviation area : 0.0264438
Relative ecdf area correlation : -0.103062
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 : 3.24474e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.26541



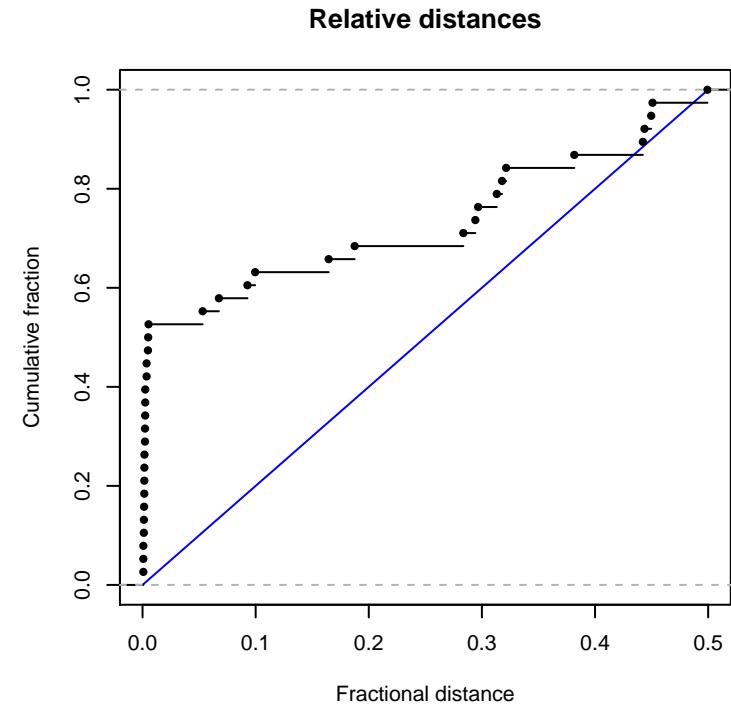
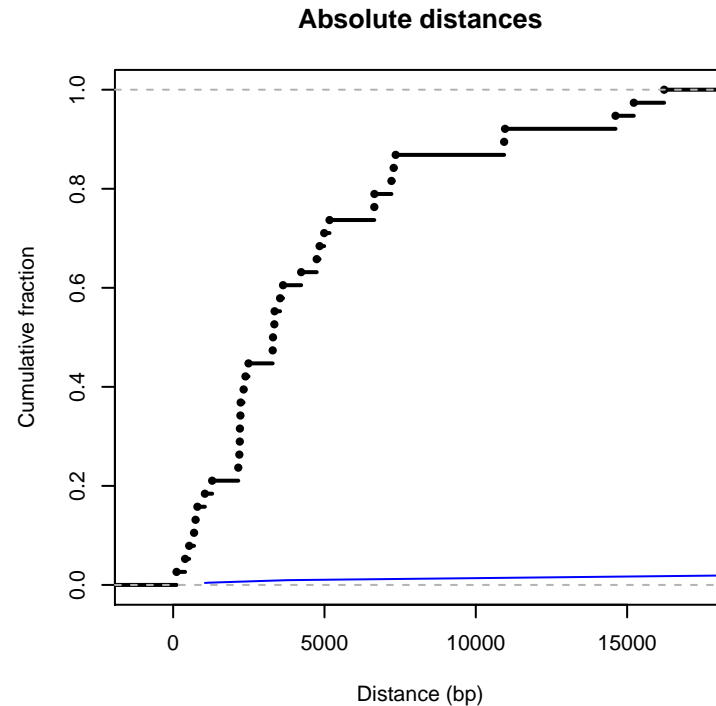
pcontig_078

Query population : 251
Reference population : 42
Relative Ks p-value : 0.326701
Relative ecdf deviation area : 0.0131834
Relative ecdf area correlation : 0.0468925
Relative ecdf deviation area p-value : 0.22
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 : 7.59202



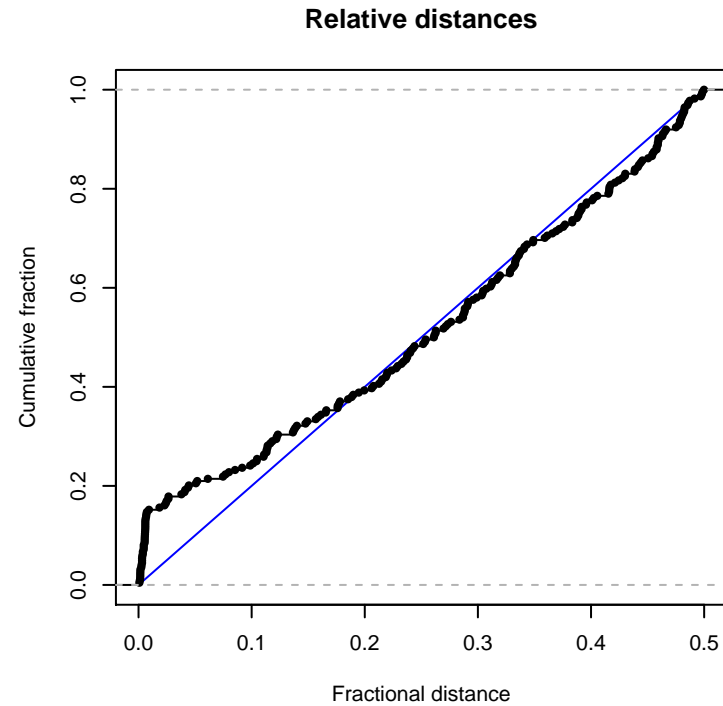
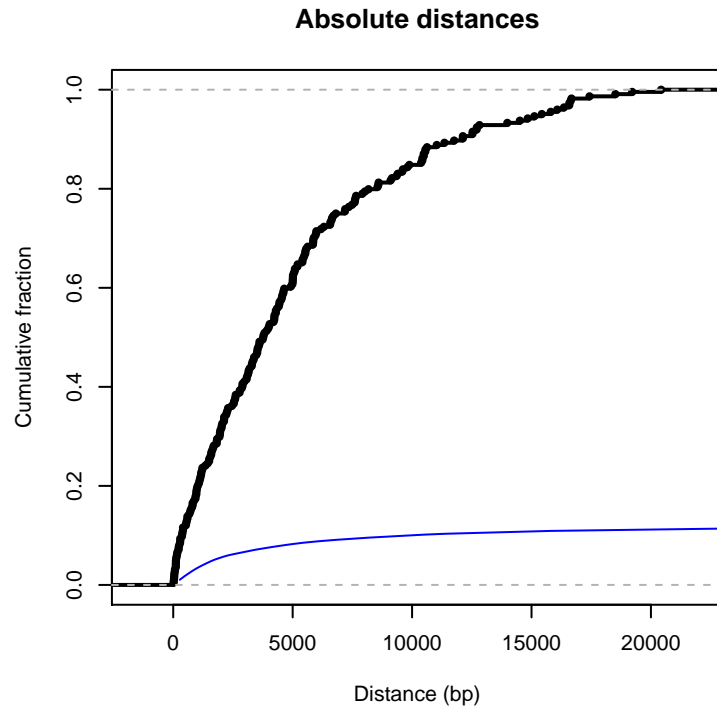
pcontig_079

Query population : 38
Reference population : 6
Relative Ks p-value : 6.50253e-10
Relative ecdf deviation area : 0.113217
Relative ecdf area correlation : 0.452047
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 : 5.89054e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 27.0724



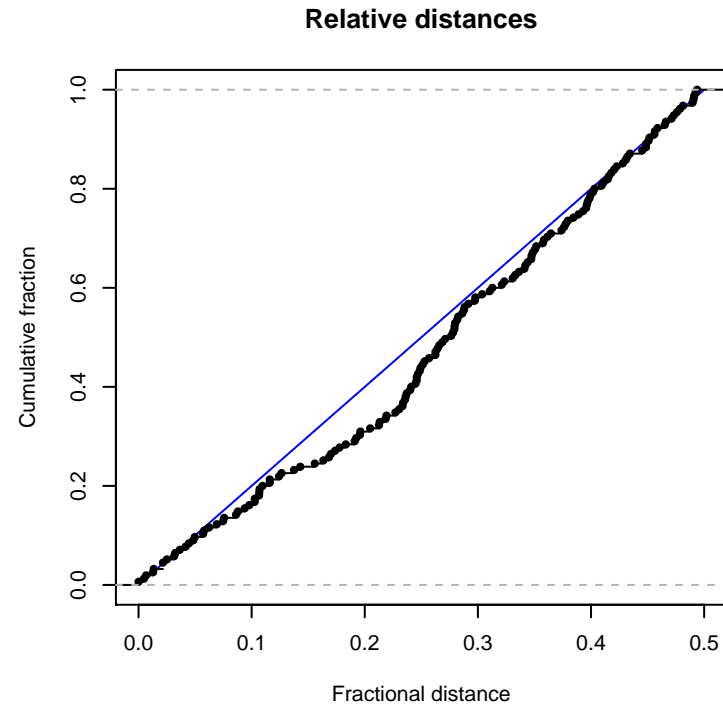
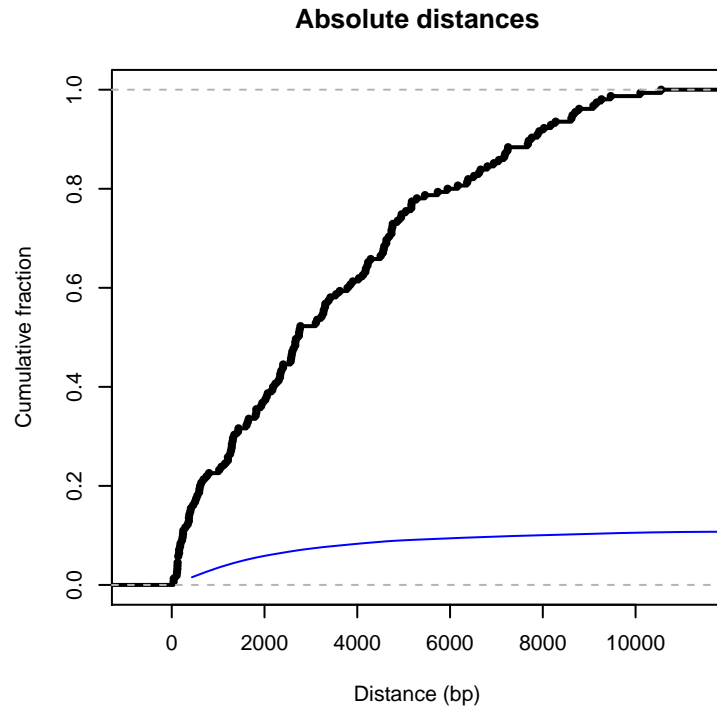
pcontig_080

Query population : 224
Reference population : 58
Relative Ks p-value : 0.000695268
Relative ecdf deviation area : 0.0180044
Relative ecdf area correlation : 0.0192055
Relative ecdf deviation area p-value : 0.04
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 : 7.10175e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.94014



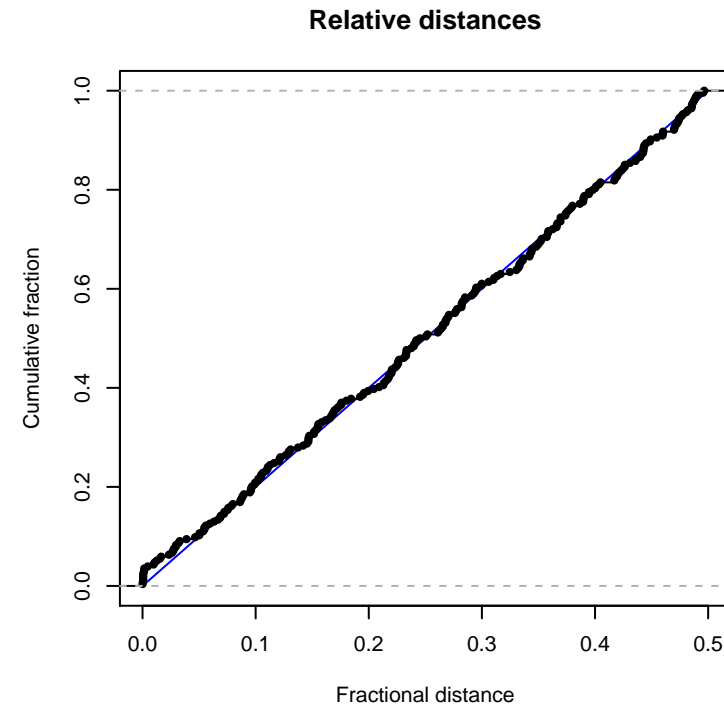
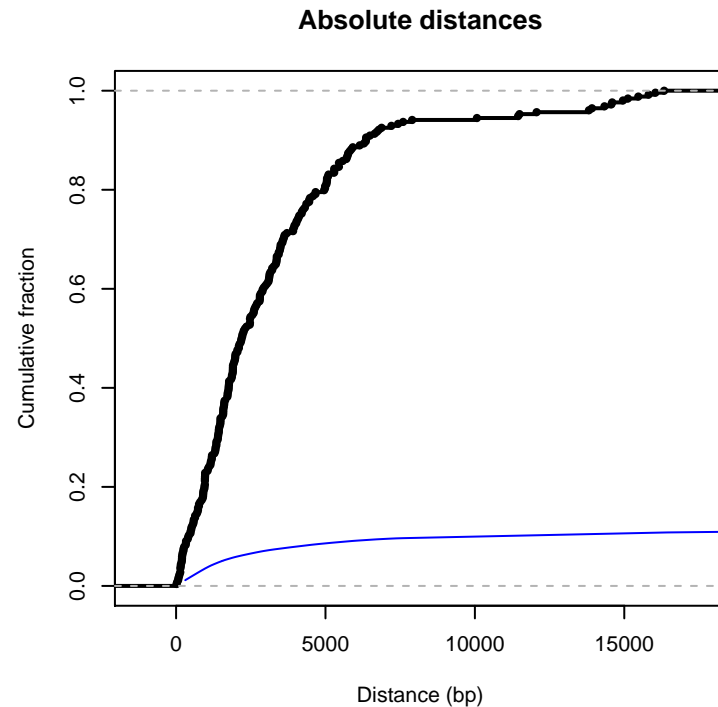
pcontig_081

Query population : 155
Reference population : 55
Relative Ks p-value : 0.0397809
Relative ecdf deviation area : 0.0182933
Relative ecdf area correlation : -0.0714968
Relative ecdf deviation area p-value : 0.16
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 : 3.33289e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.02195



pcontig_082

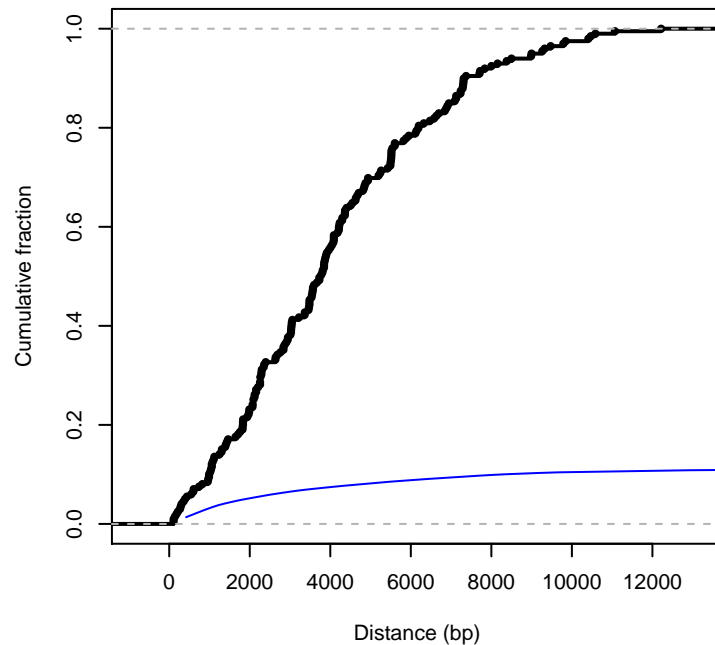
Query population : 254
Reference population : 58
Relative Ks p-value : 0.95386
Relative ecdf deviation area : 0.00398103
Relative ecdf area correlation : 0.00075362
Relative ecdf deviation area p-value : 0.98
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.25484e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.56603



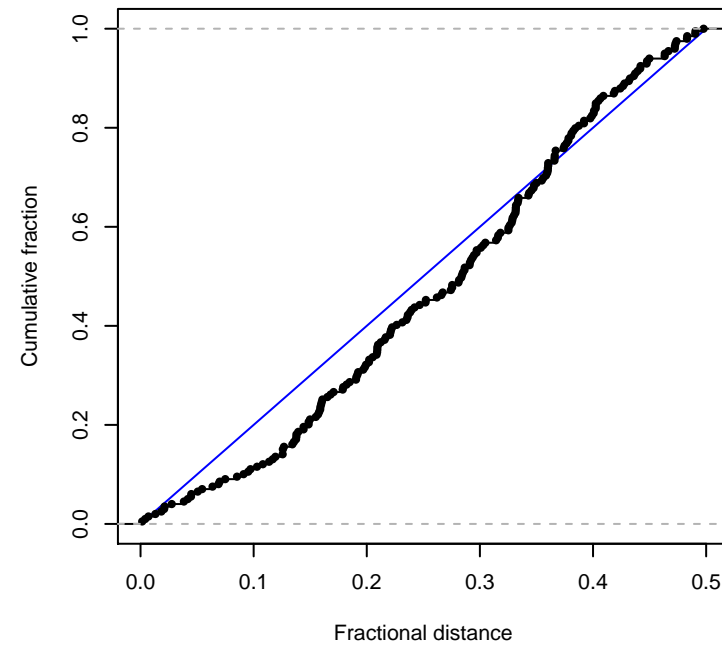
pcontig_083

Query population : 199
Reference population : 50
Relative Ks p-value : 0.00984334
Relative ecdf deviation area : 0.0250583
Relative ecdf area correlation : -0.0740531
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 : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.102053
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.48726

Absolute distances



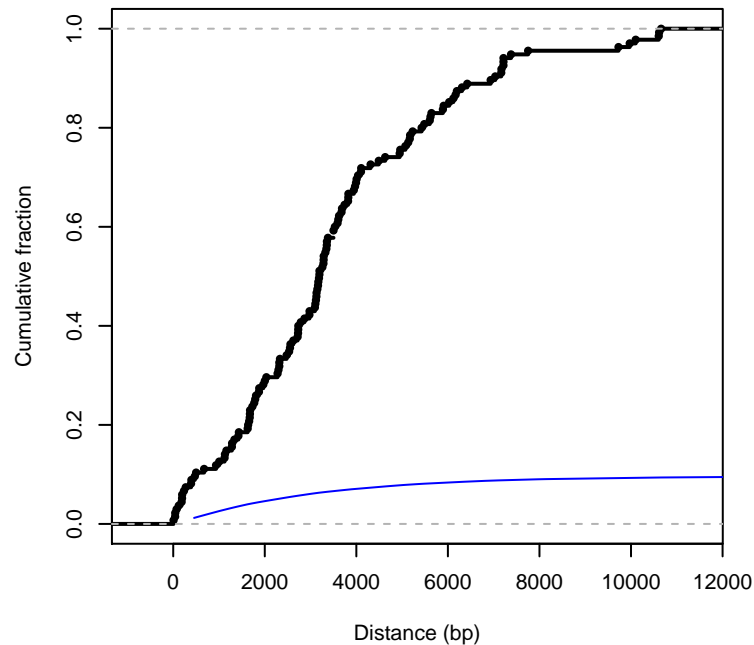
Relative distances



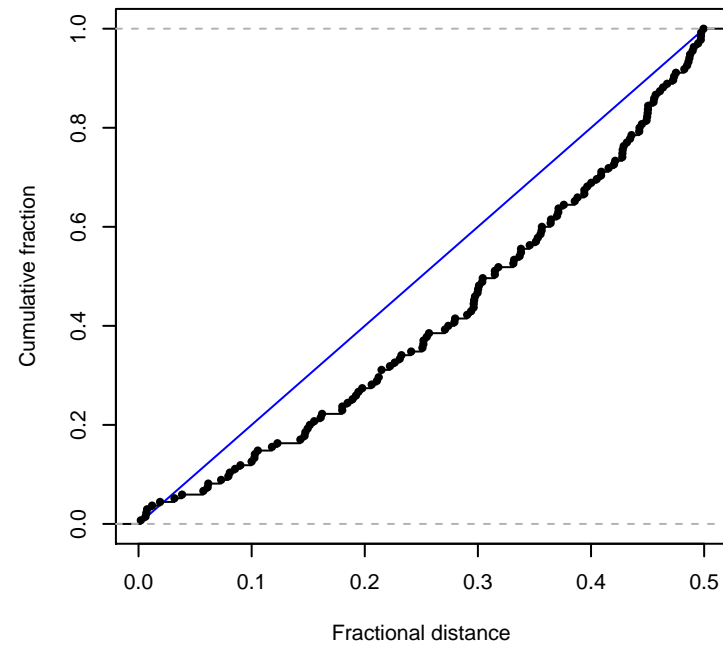
pcontig_084

Query population : 135
Reference population : 41
Relative Ks p-value : 0.0011529
Relative ecdf deviation area : 0.0483433
Relative ecdf area correlation : -0.192009
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 : 3.5378e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.06802

Absolute distances



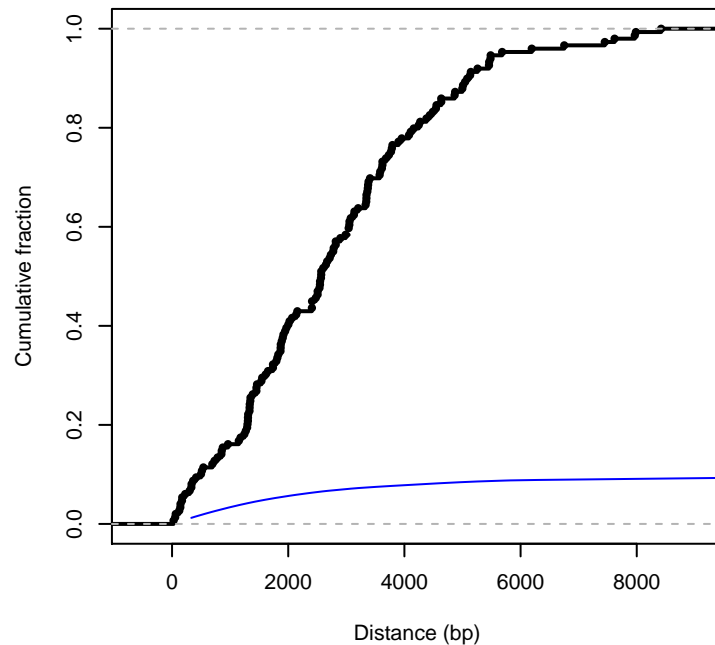
Relative distances



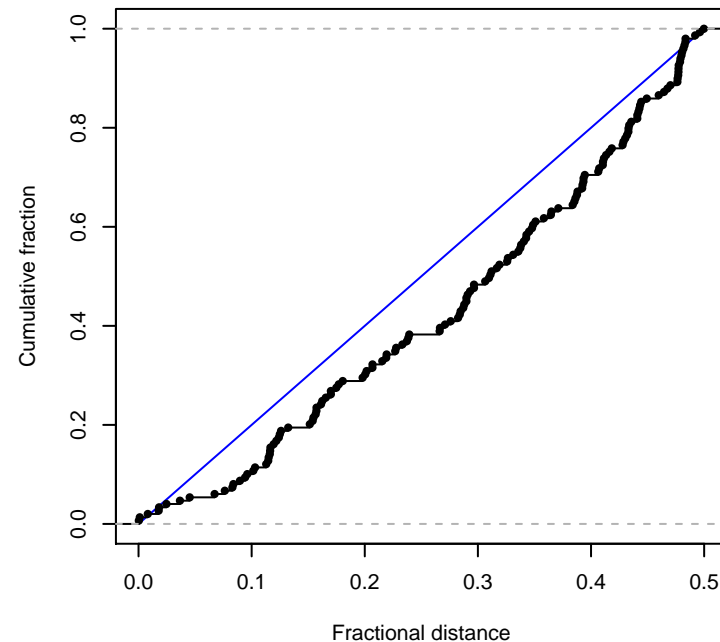
pcontig_086

Query population : 149
Reference population : 57
Relative Ks p-value : 0.00147503
Relative ecdf deviation area : 0.0426617
Relative ecdf area correlation : -0.169701
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 : 3.47725e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.93115

Absolute distances

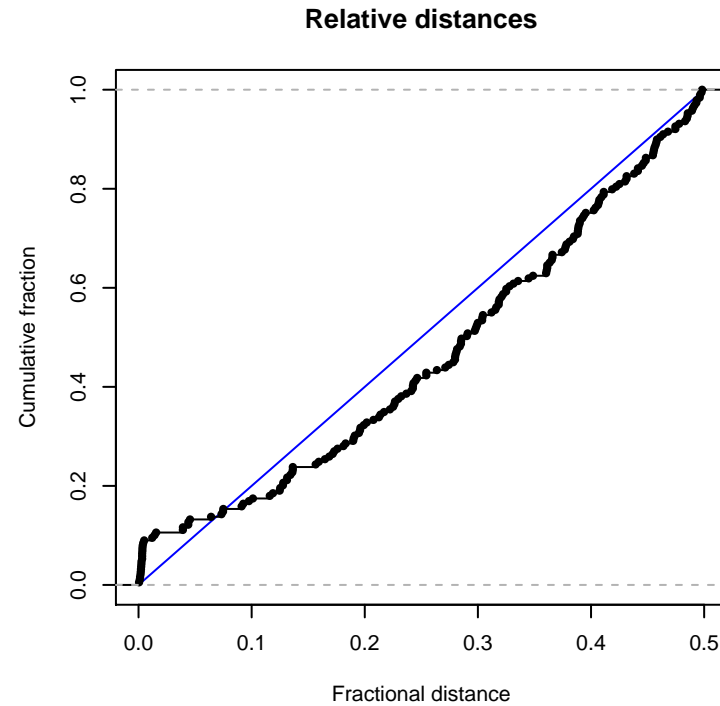
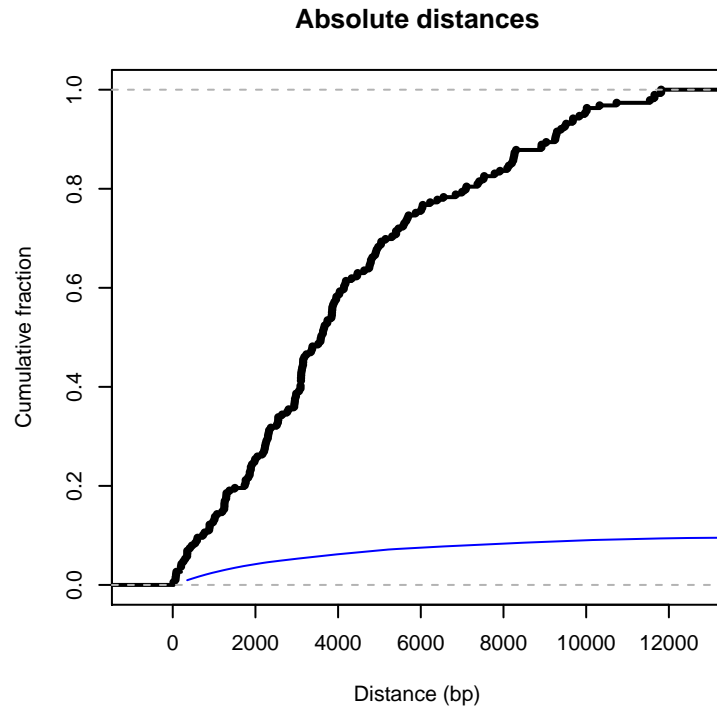


Relative distances



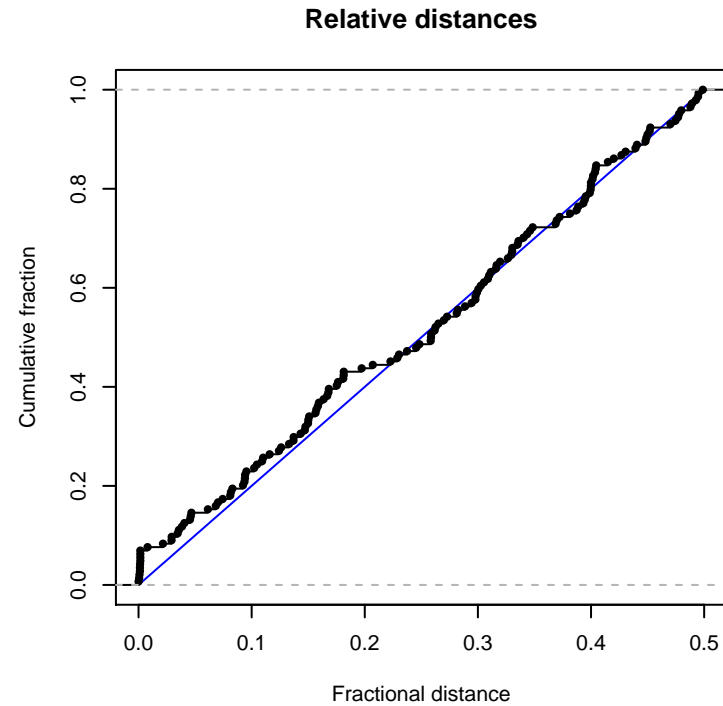
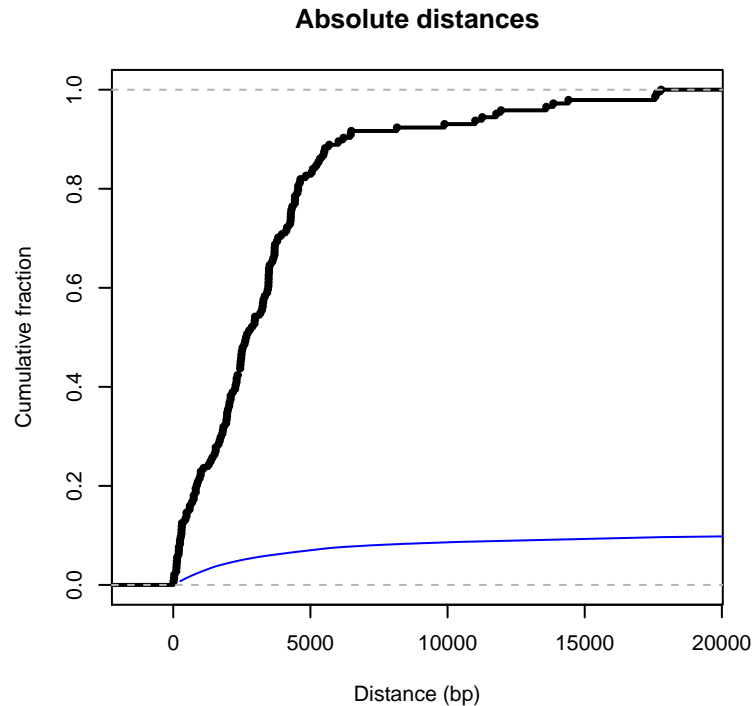
pcontig_087

Query population : 189
Reference population : 42
Relative Ks p-value : 0.0173311
Relative ecdf deviation area : 0.0286531
Relative ecdf area correlation : -0.0926609
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 : 2.56181e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.9557



pcontig_088

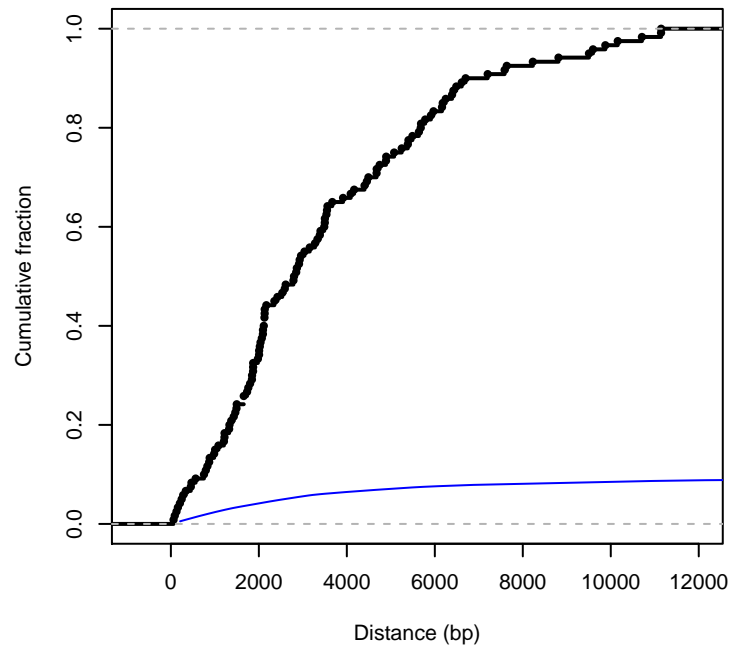
Query population : 144
Reference population : 46
Relative Ks p-value : 0.523824
Relative ecdf deviation area : 0.0100938
Relative ecdf area correlation : 0.0275574
Relative ecdf deviation area p-value : 0.7
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure 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 : 8.81153



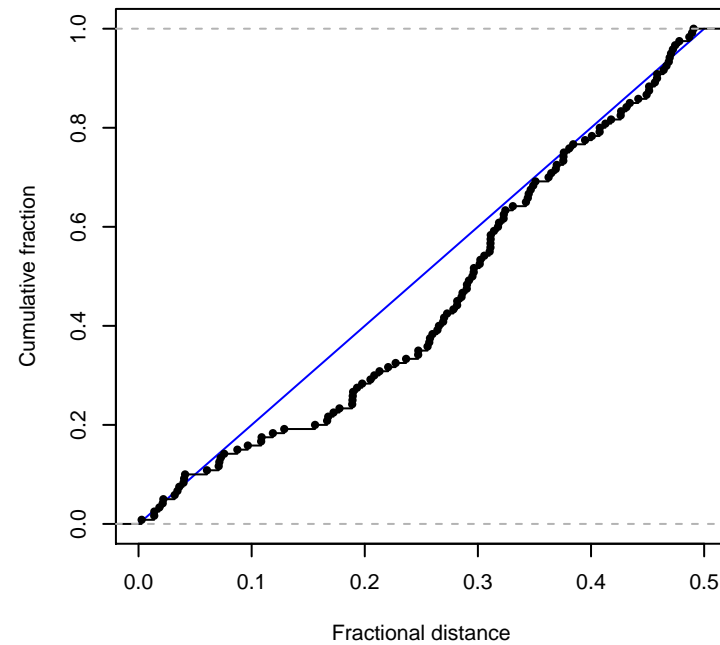
pcontig_089

Query population : 120
Reference population : 39
Relative Ks p-value : 0.00396918
Relative ecdf deviation area : 0.0289115
Relative ecdf area correlation : -0.112197
Relative ecdf deviation area p-value : 0.03
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 : 3.73293e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.12175

Absolute distances

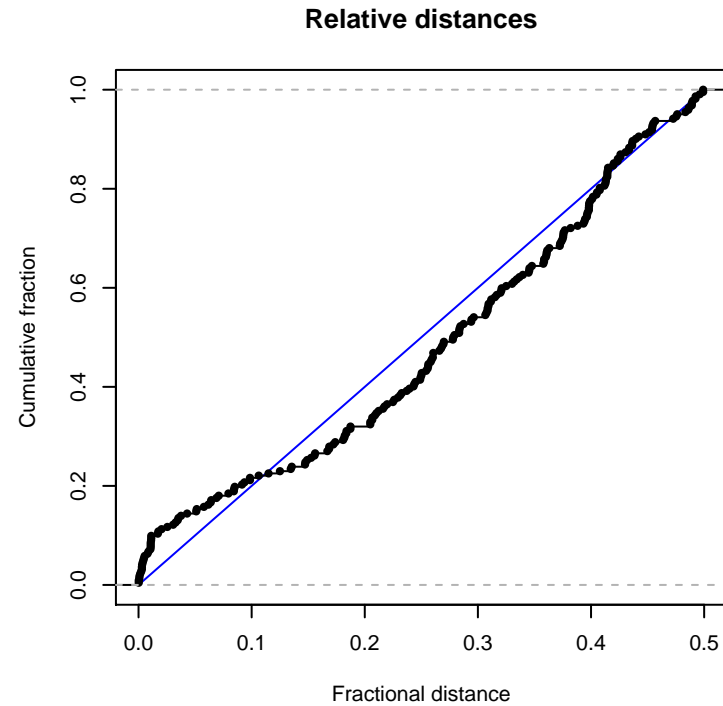
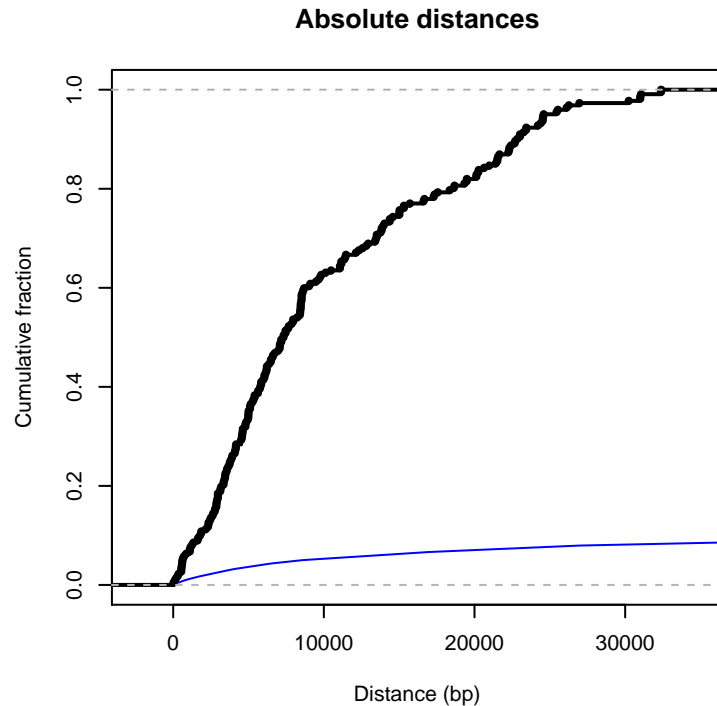


Relative distances



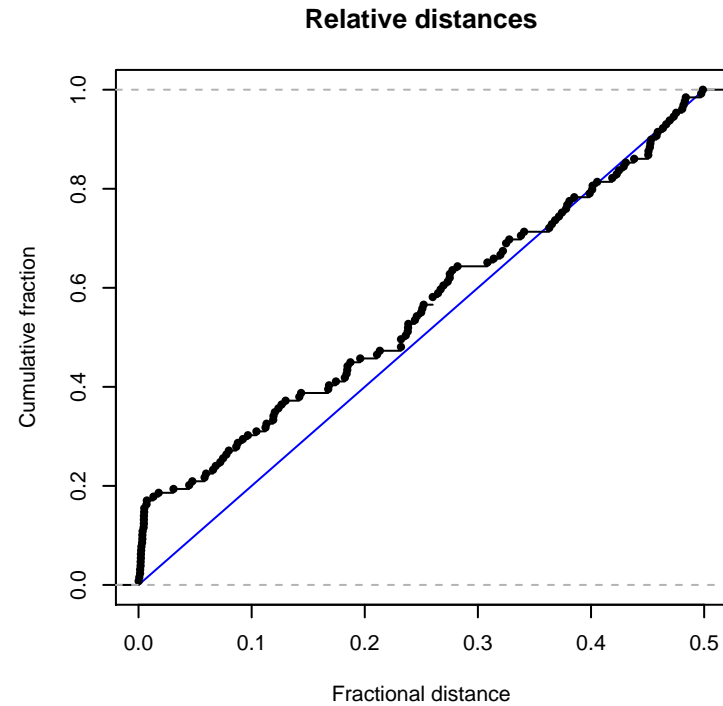
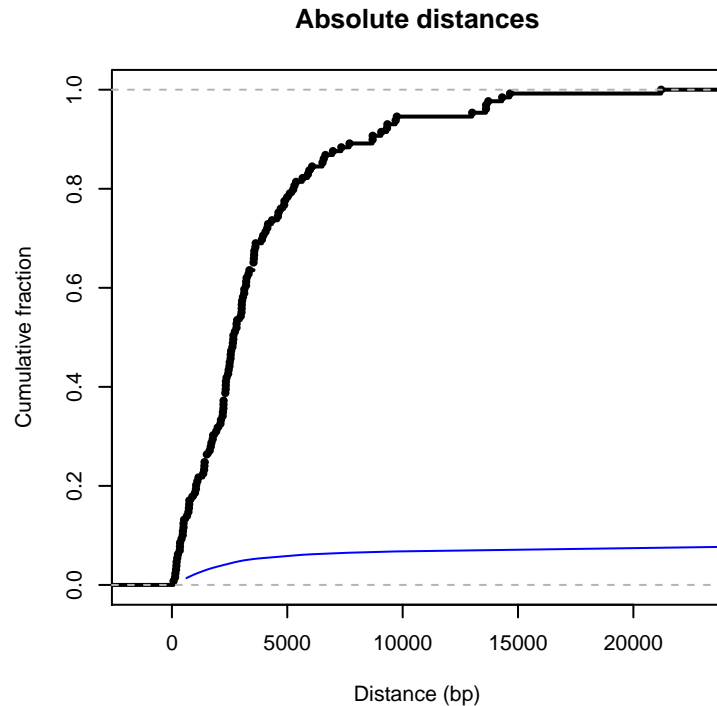
pcontig_090

Query population : 222
Reference population : 20
Relative Ks p-value : 0.0552148
Relative ecdf deviation area : 0.0223409
Relative ecdf area correlation : -0.048502
Relative ecdf deviation area p-value : 0.04
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 : 1.51177e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.33402



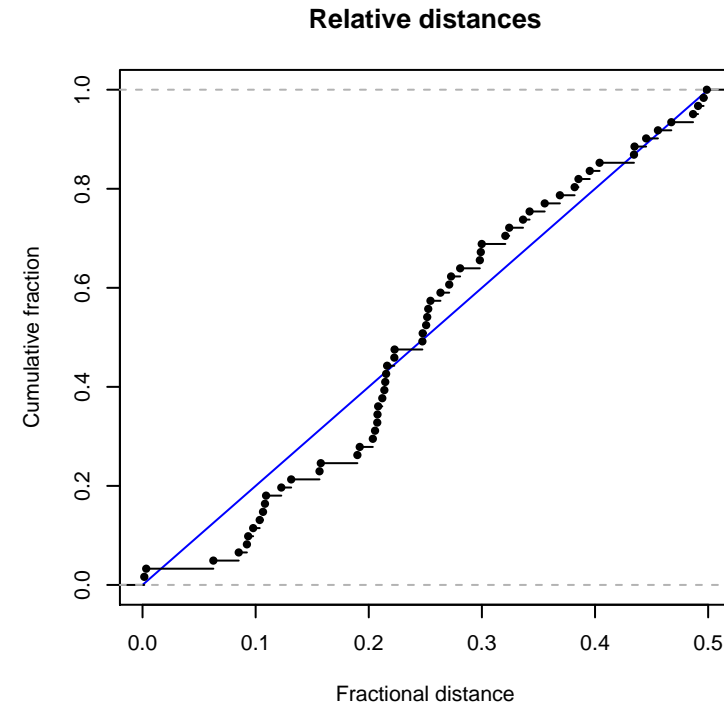
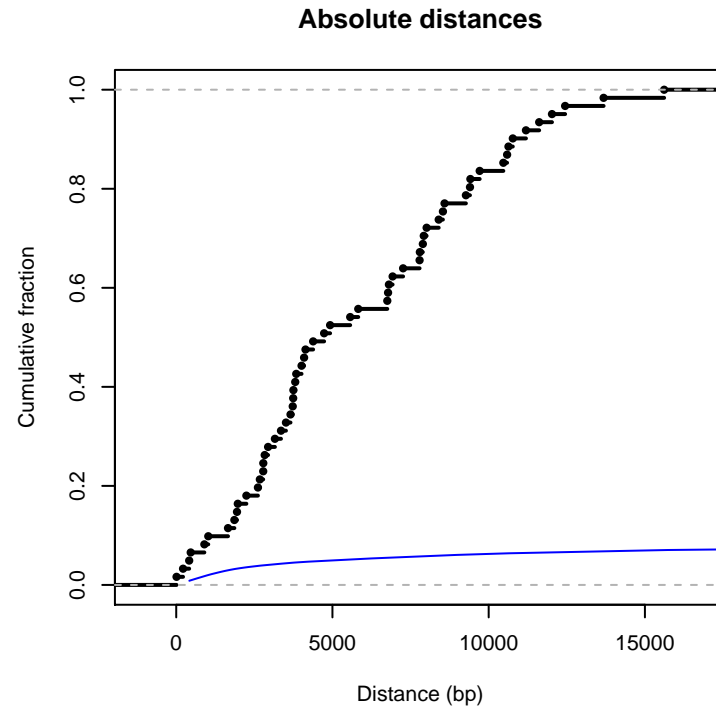
pcontig_091

Query population : 129
Reference population : 34
Relative Ks p-value : 0.00380002
Relative ecdf deviation area : 0.0270797
Relative ecdf area correlation : 0.0990329
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 : 3.27617e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.72724



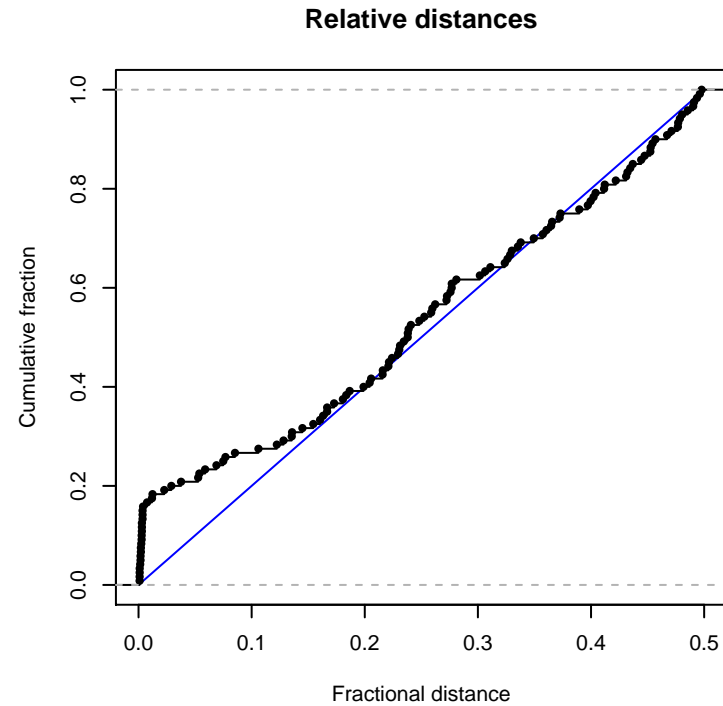
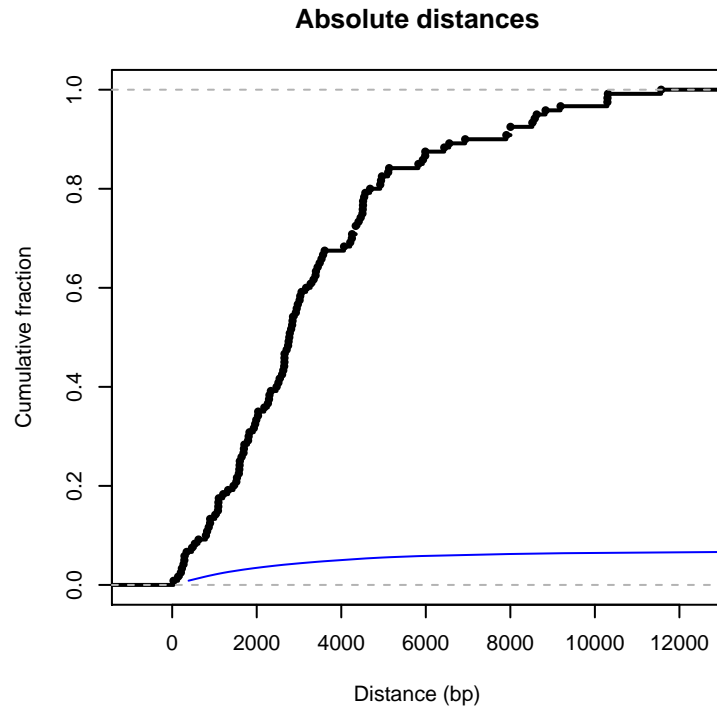
pcontig_092

Query population : 61
Reference population : 31
Relative Ks p-value : 0.204519
Relative ecdf deviation area : 0.0257597
Relative ecdf area correlation : -0.028033
Relative ecdf deviation area p-value : 0.19
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.328051
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0.852802



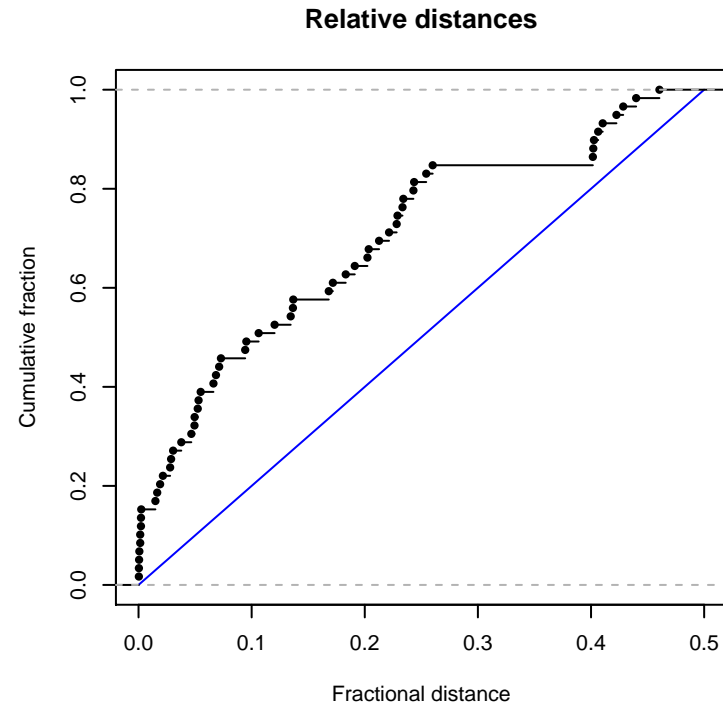
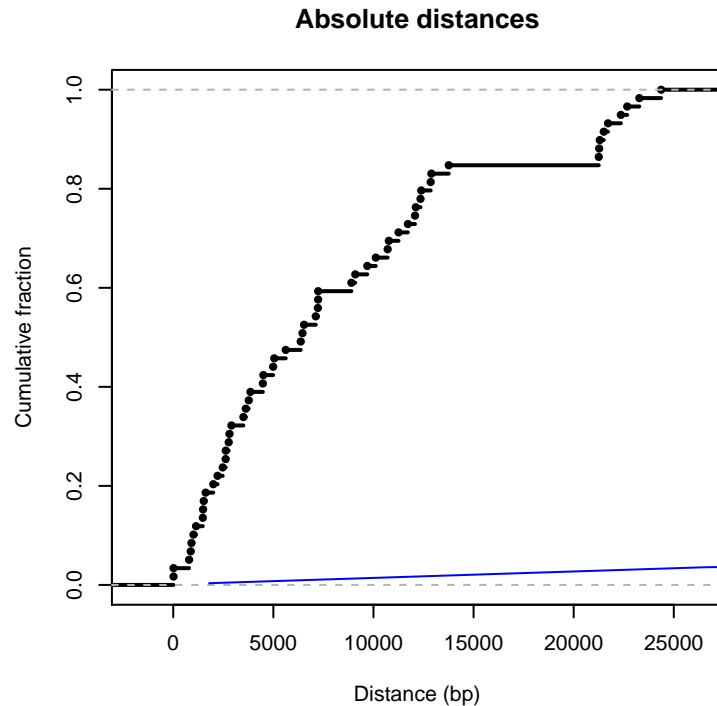
pcontig_095

Query population : 120
Reference population : 34
Relative Ks p-value : 0.00477719
Relative ecdf deviation area : 0.0201579
Relative ecdf area correlation : 0.0533033
Relative ecdf deviation area p-value : 0.15
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 : 0.00073684
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.64702



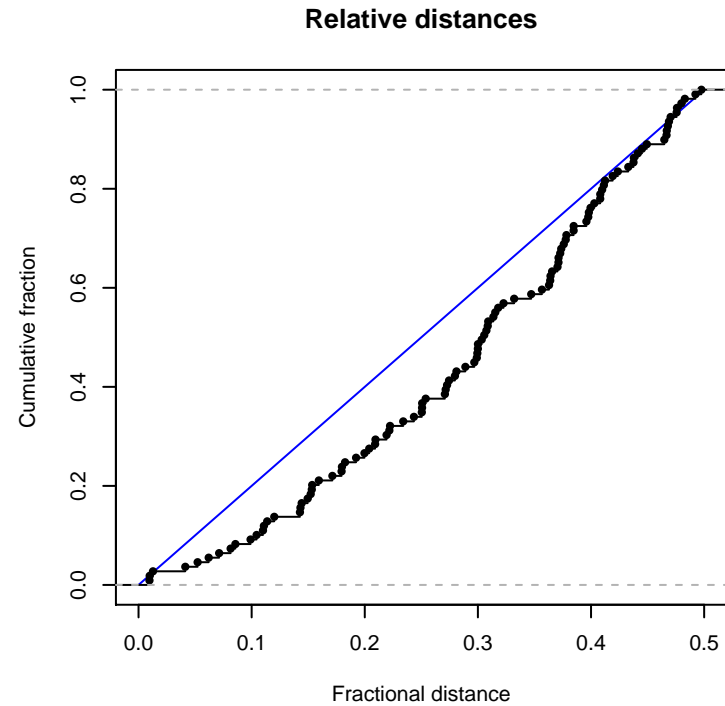
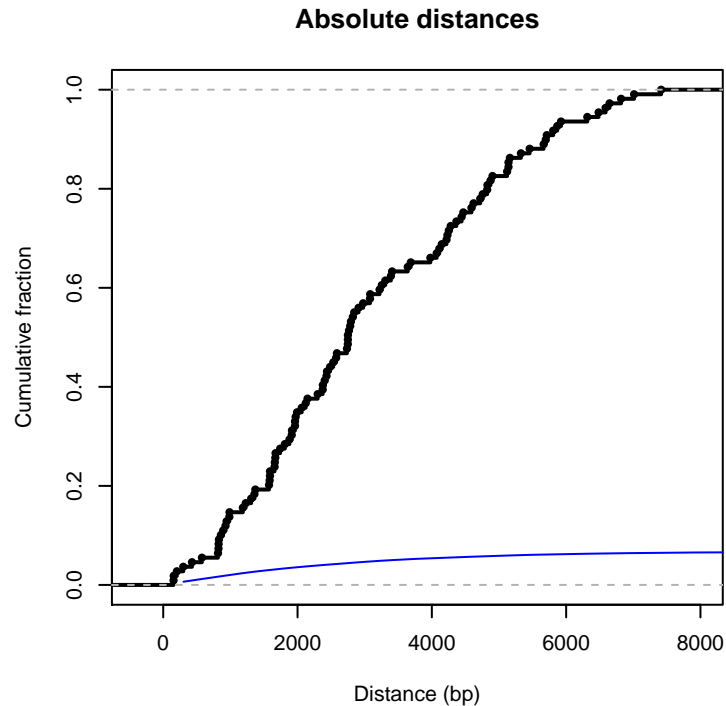
pcontig_096

Query population : 59
Reference population : 3
Relative Ks p-value : 3.92351e-06
Relative ecdf deviation area : 0.0998175
Relative ecdf area correlation : 0.398557
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 : 2.37405e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 80.6233



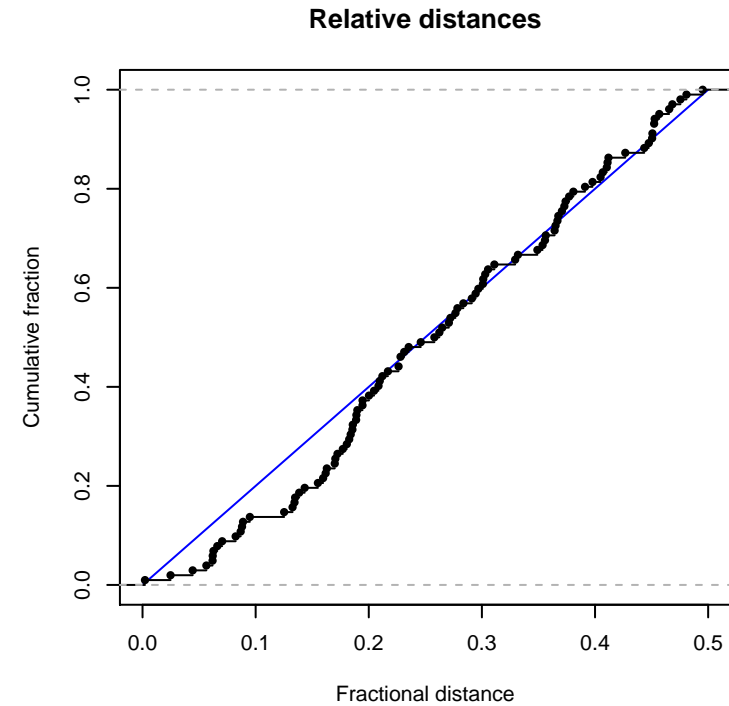
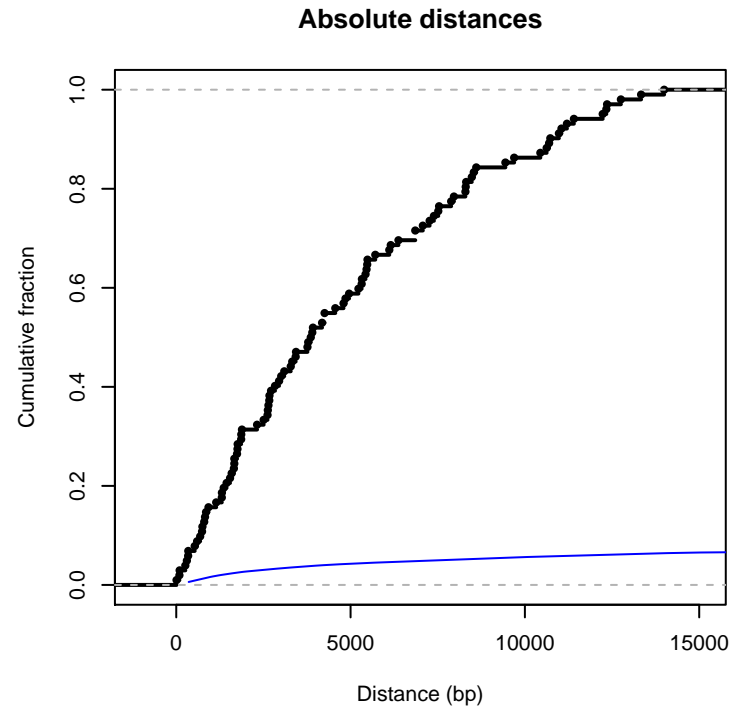
pcontig_097

Query population : 109
Reference population : 33
Relative Ks p-value : 0.00511353
Relative ecdf deviation area : 0.04308
Relative ecdf area correlation : -0.170215
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 : 0.0411117
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.12622



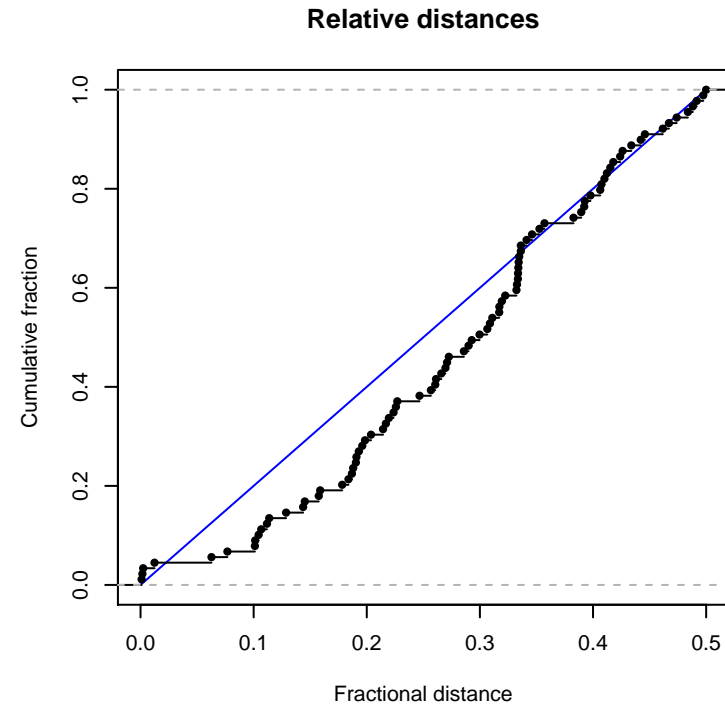
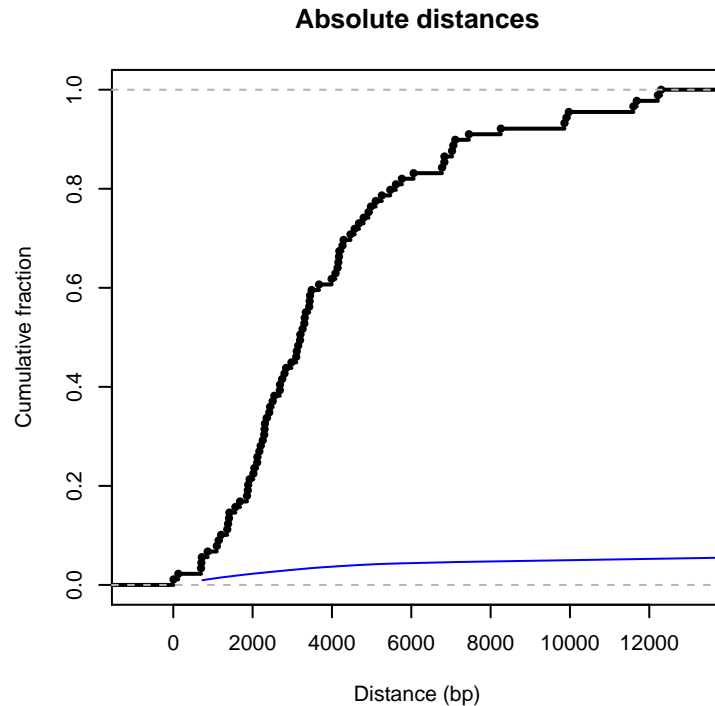
pcontig_100

Query population : 102
Reference population : 26
Relative Ks p-value : 0.115878
Relative ecdf deviation area : 0.0179616
Relative ecdf area correlation : -0.0506267
Relative ecdf deviation area p-value : 0.29
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 : 0.00146503
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.10775



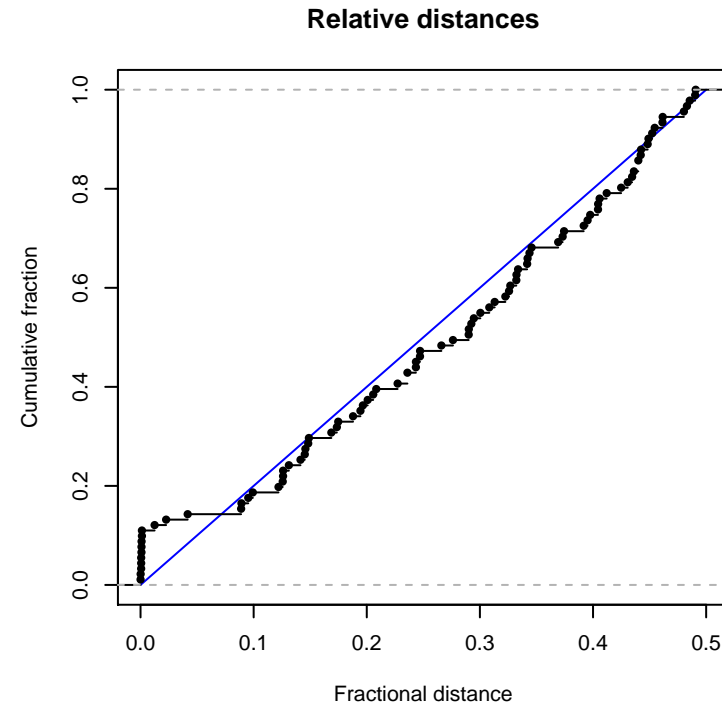
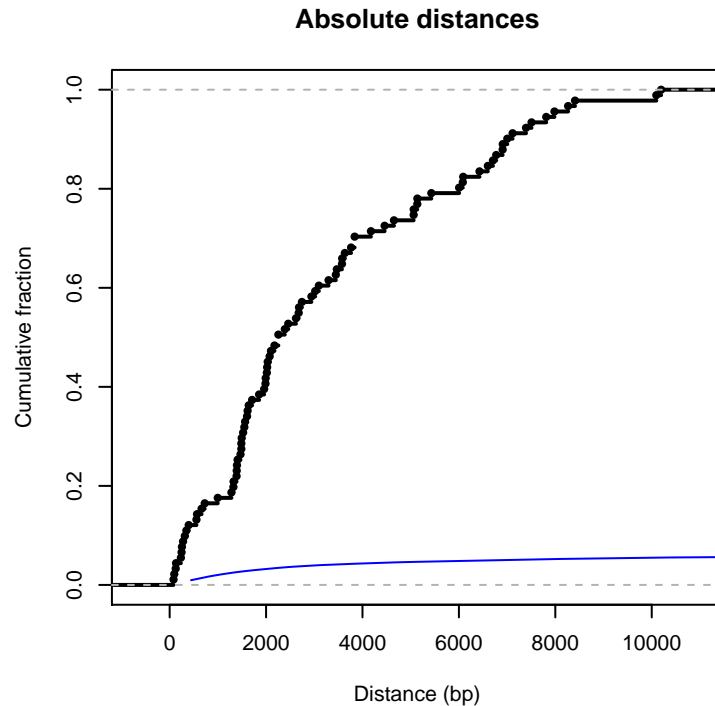
pcontig_103

Query population : 89
Reference population : 20
Relative Ks p-value : 0.0134218
Relative ecdf deviation area : 0.0343717
Relative ecdf area correlation : -0.12837
Relative ecdf deviation area p-value : 0.02
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 : 0.0235269
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.28435



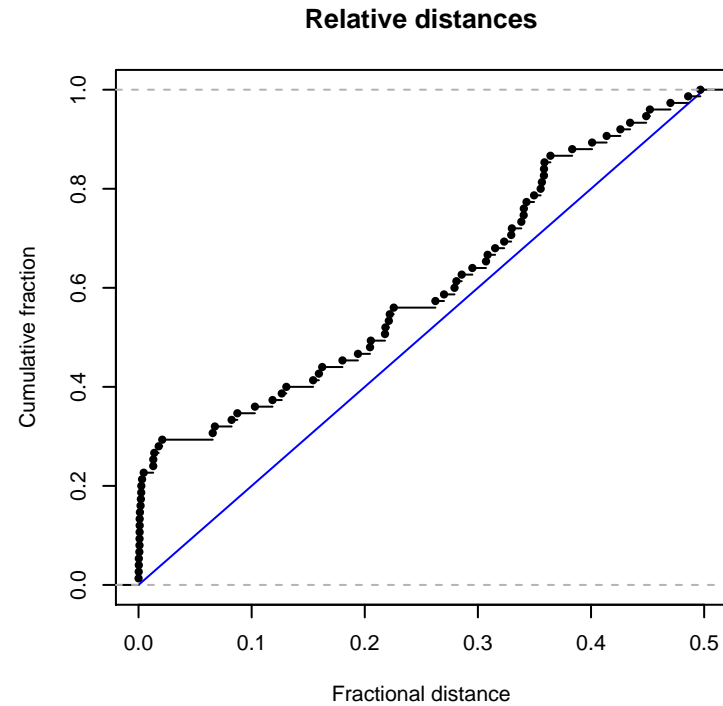
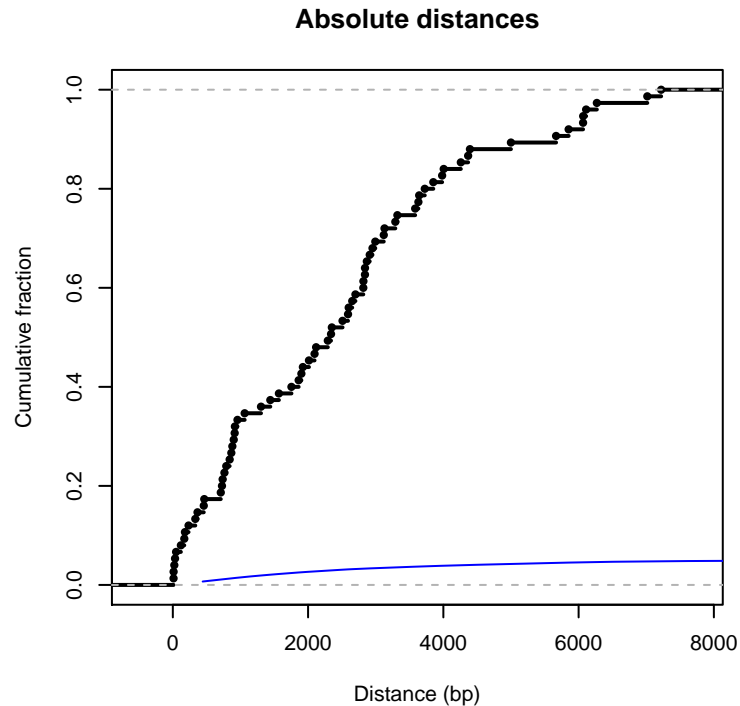
pcontig_104

Query population : 91
Reference population : 33
Relative Ks p-value : 0.227352
Relative ecdf deviation area : 0.0204925
Relative ecdf area correlation : -0.0444525
Relative ecdf deviation area p-value : 0.25
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 : 7.916e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.1391



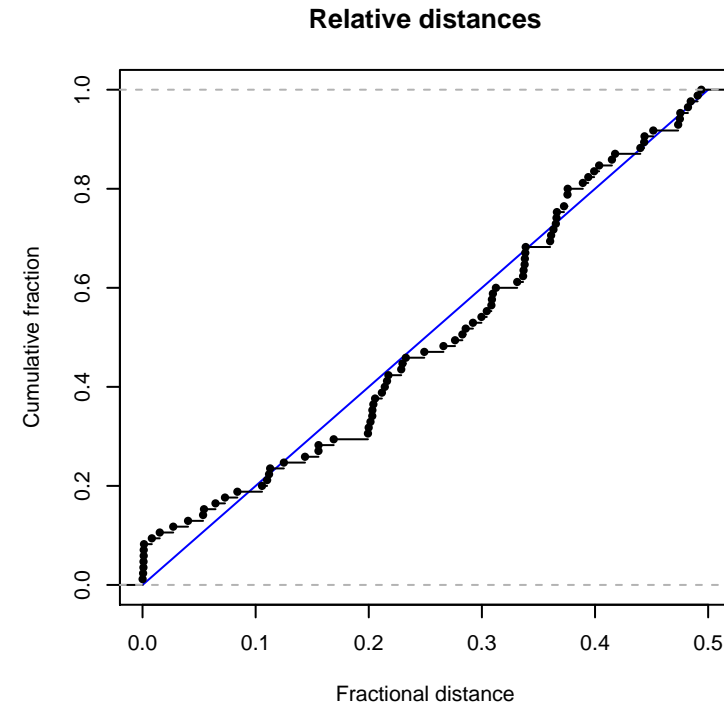
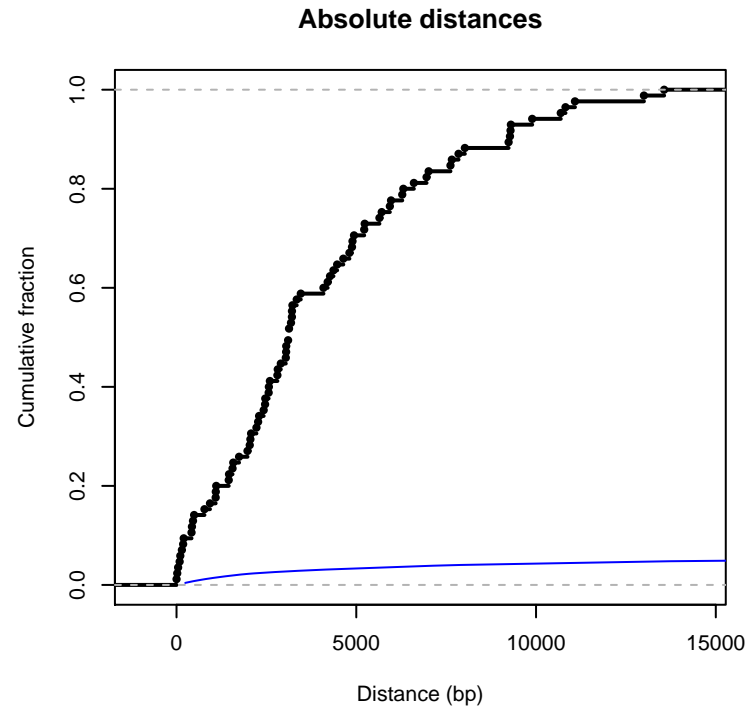
pcontig_106

Query population : 75
Reference population : 24
Relative Ks p-value : 0.000115358
Relative ecdf deviation area : 0.0483424
Relative ecdf area correlation : 0.193982
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 : 1.11022e-16
Projection test lower tail : FALSE
Projection test observed to expected ratio : 16.5383



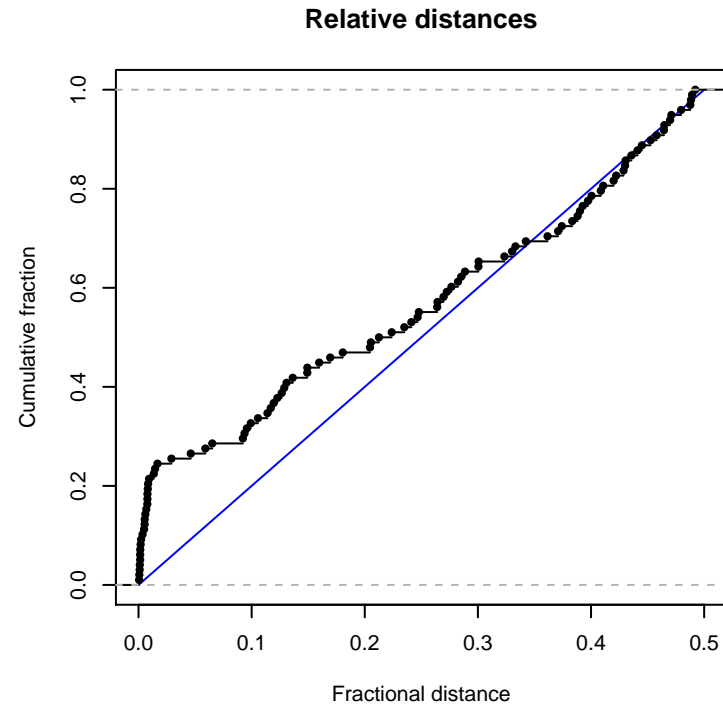
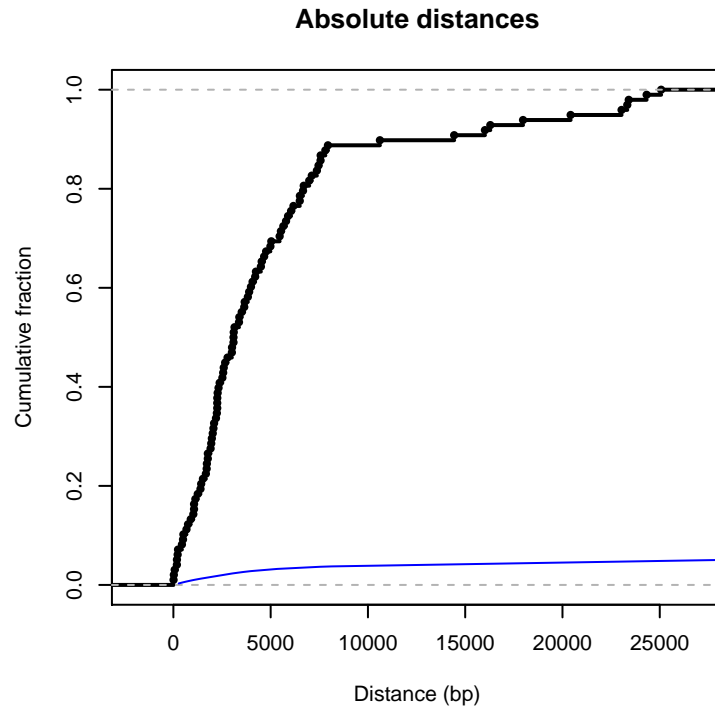
pcontig_110

Query population : 85
Reference population : 26
Relative Ks p-value : 0.291477
Relative ecdf deviation area : 0.0178791
Relative ecdf area correlation : -0.0206645
Relative ecdf deviation area p-value : 0.36
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 : 2.51006e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.84



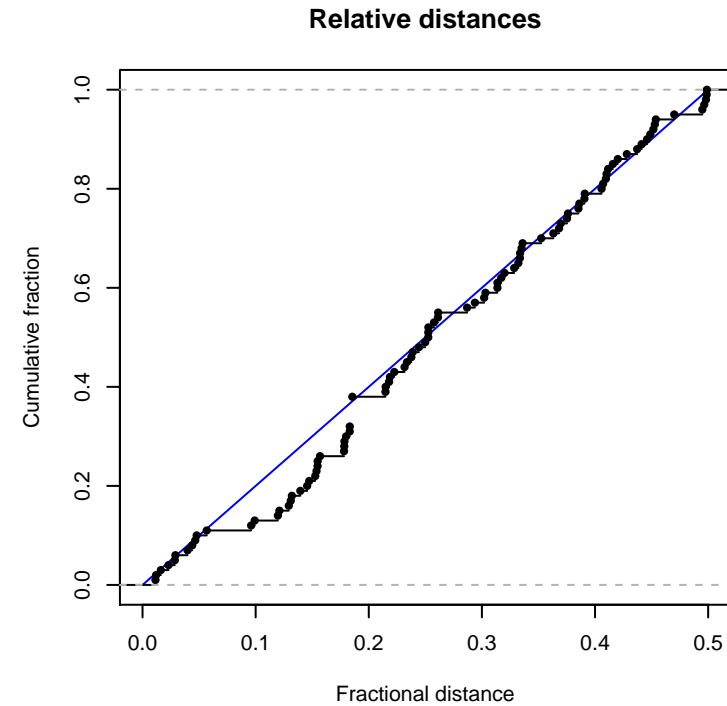
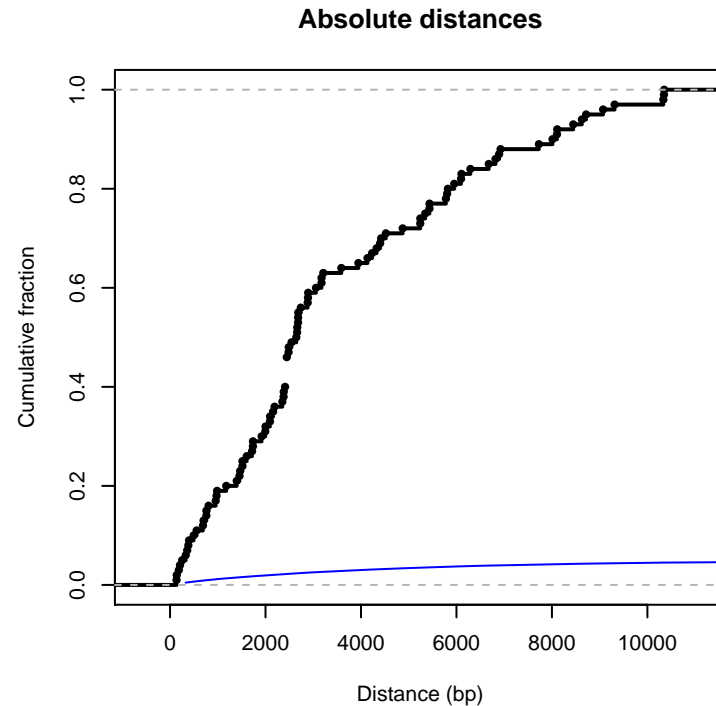
pcontig_112

Query population : 98
Reference population : 17
Relative Ks p-value : 0.000255001
Relative ecdf deviation area : 0.0354312
Relative ecdf area correlation : 0.121294
Relative ecdf deviation area p-value : 0.03
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 : 7.34901e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 13.2367



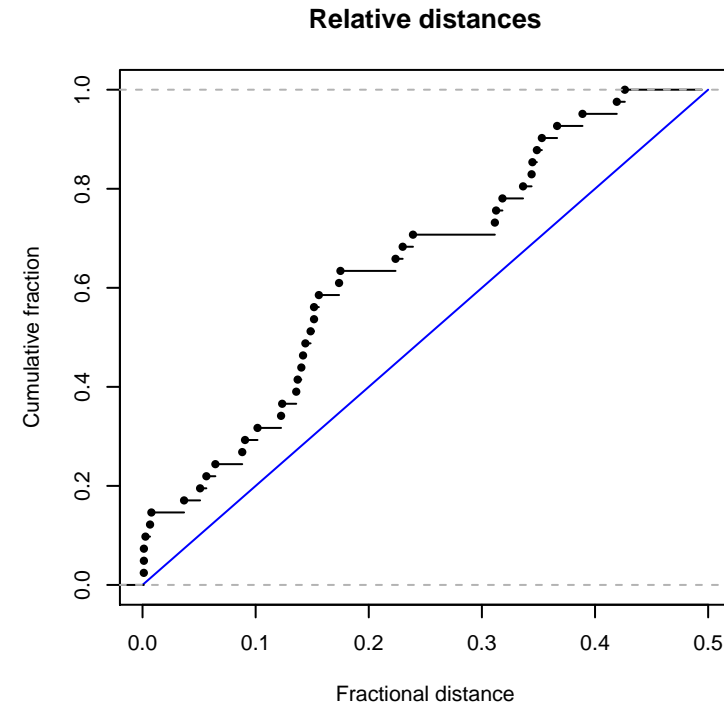
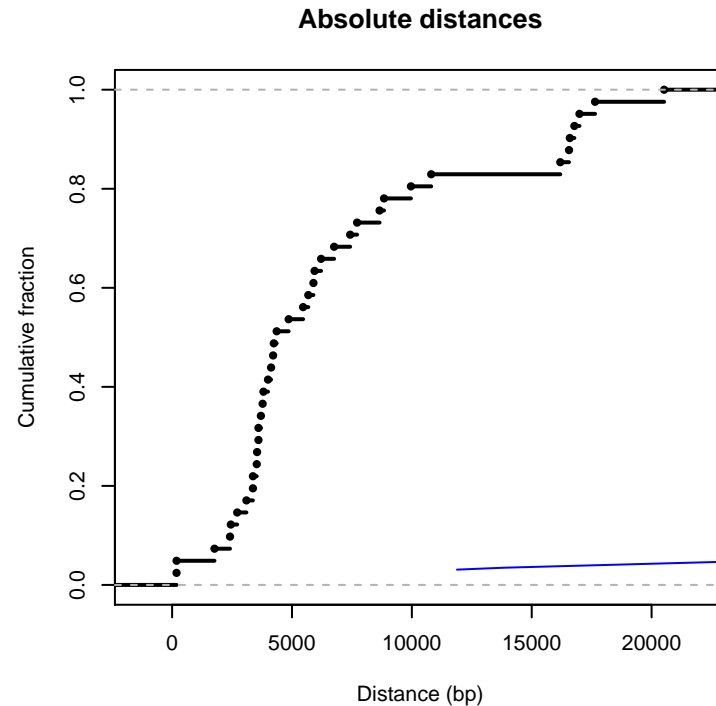
pcontig_115

Query population : 100
Reference population : 22
Relative Ks p-value : 0.182998
Relative ecdf deviation area : 0.0144772
Relative ecdf area correlation : -0.0499629
Relative ecdf deviation area p-value : 0.42
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 : 1.02691e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.6724



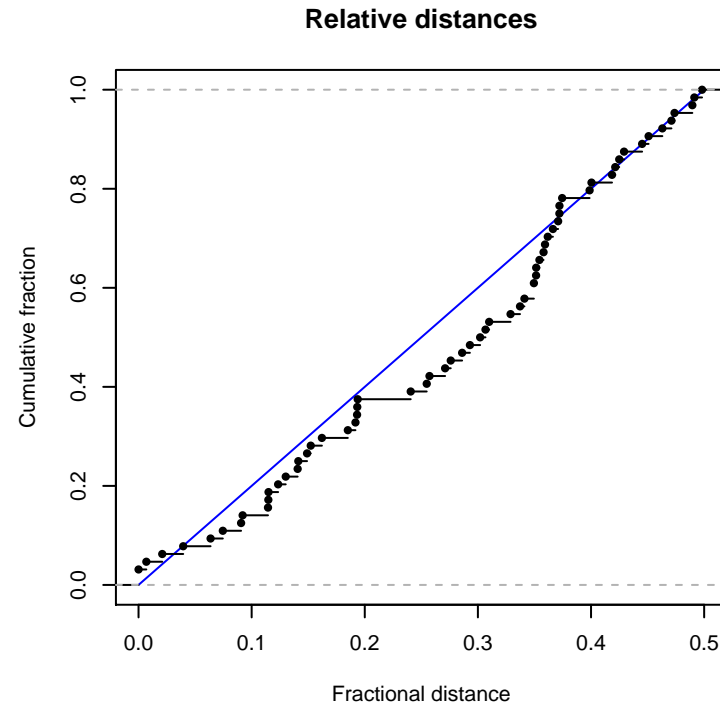
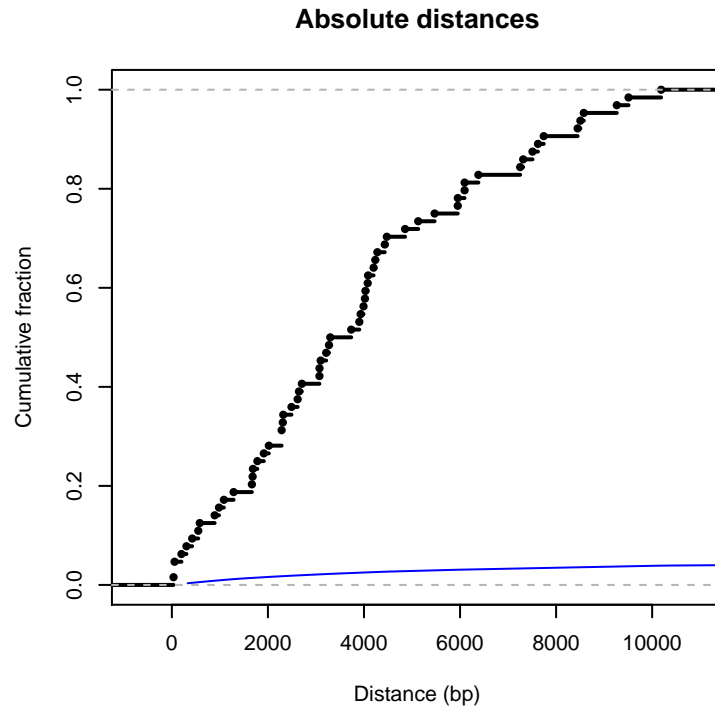
pcontig_118

Query population : 41
Reference population : 4
Relative Ks p-value : 0.00200316
Relative ecdf deviation area : 0.0699209
Relative ecdf area correlation : 0.280646
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 : 1.57983e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 42.3197



pcontig_120

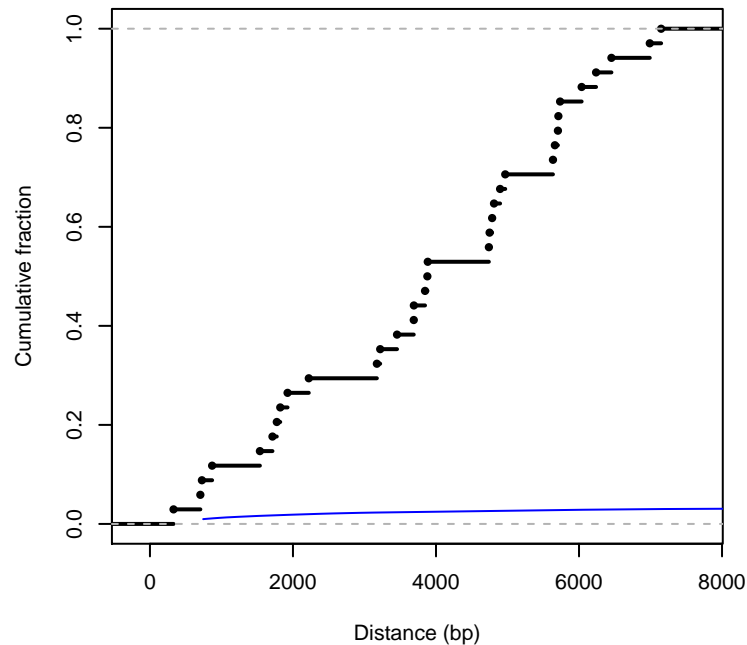
Query population : 64
Reference population : 16
Relative Ks p-value : 0.2281
Relative ecdf deviation area : 0.0243104
Relative ecdf area correlation : -0.0912631
Relative ecdf deviation area p-value : 0.29
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.83401e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.5428



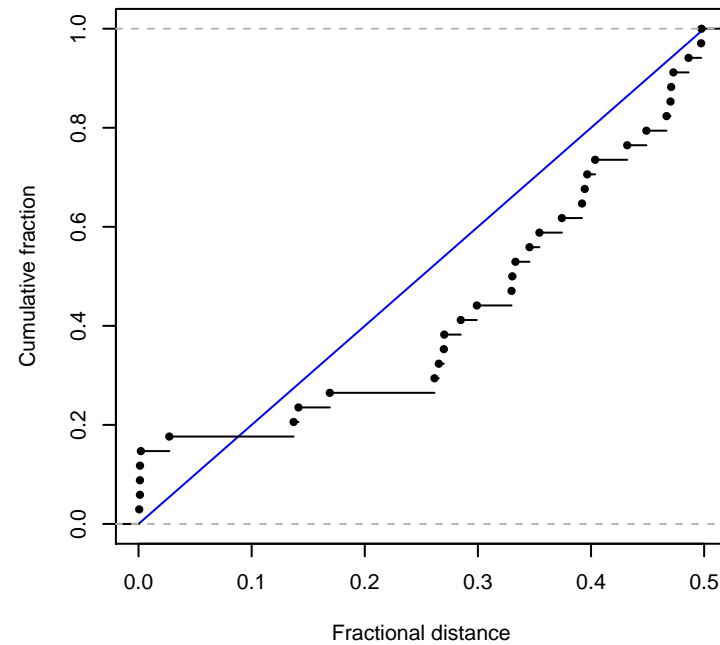
pcontig_129

Query population : 34
Reference population : 20
Relative Ks p-value : 0.0171585
Relative ecdf deviation area : 0.0583451
Relative ecdf area correlation : -0.179925
Relative ecdf deviation area p-value : 0.02
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.283757
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances



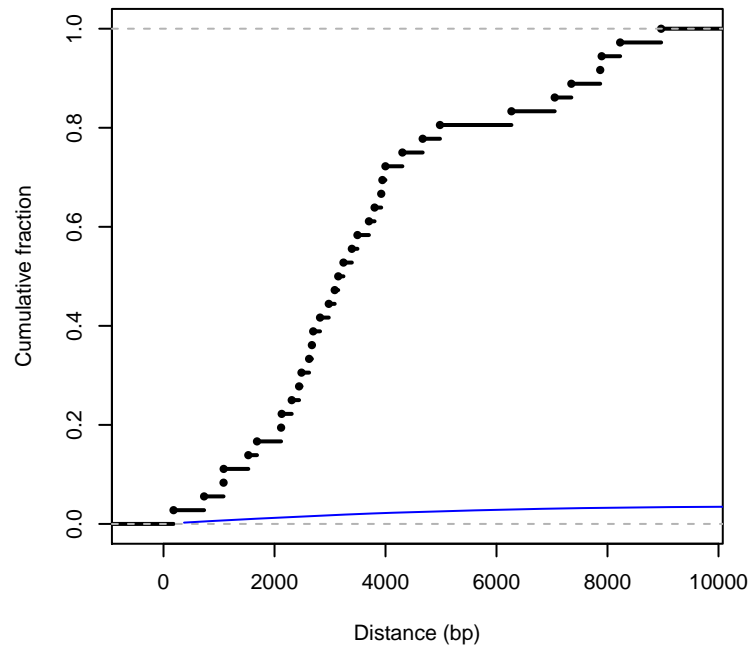
Relative distances



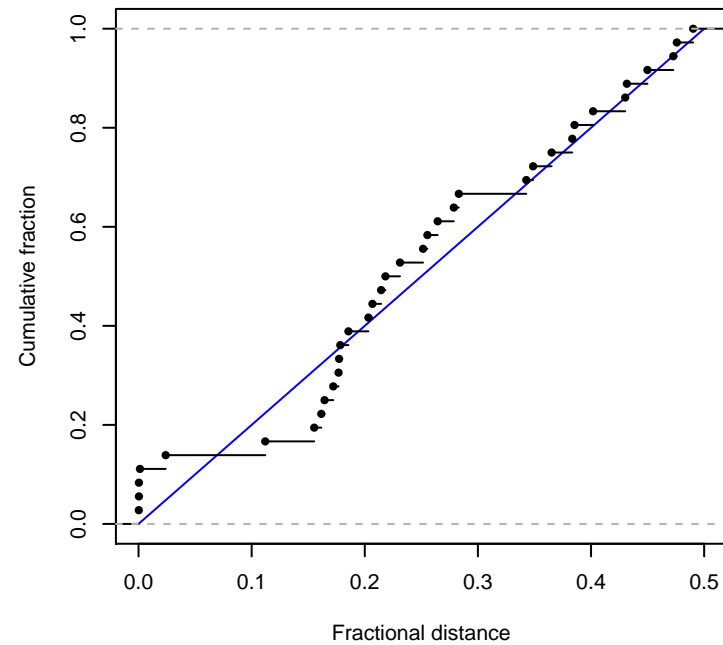
pcontig_130

Query population : 36
Reference population : 11
Relative Ks p-value : 0.406466
Relative ecdf deviation area : 0.0210047
Relative ecdf area correlation : 0.011708
Relative ecdf deviation area p-value : 0.63
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 : 0.0164717
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.10971

Absolute distances

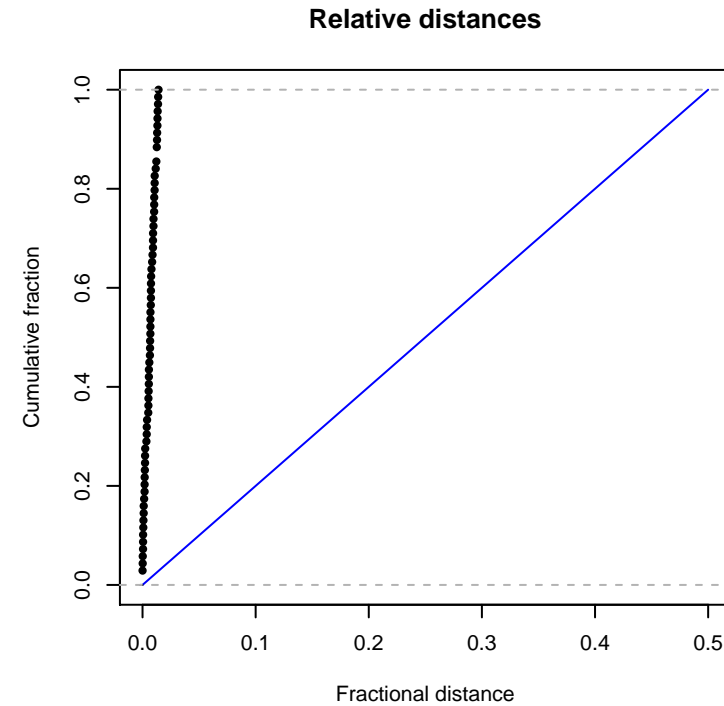
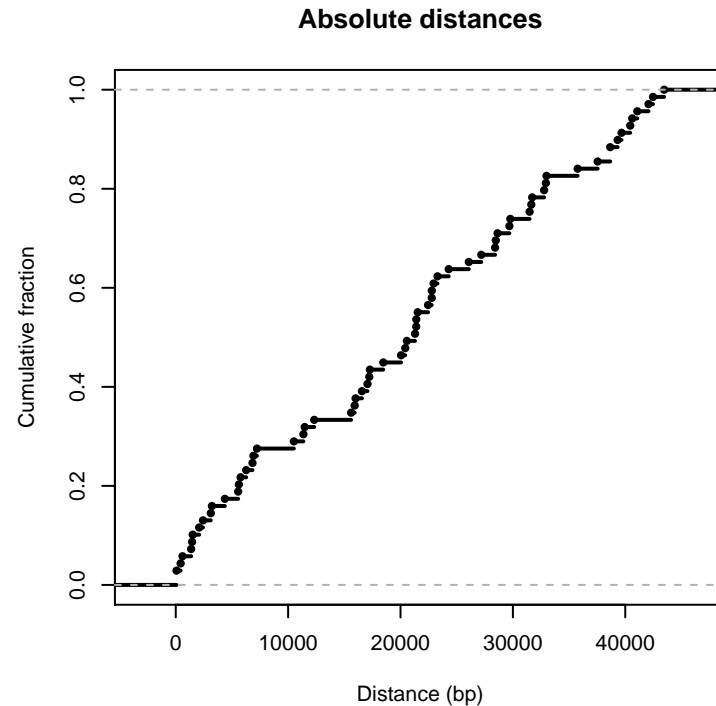


Relative distances



pcontig_134

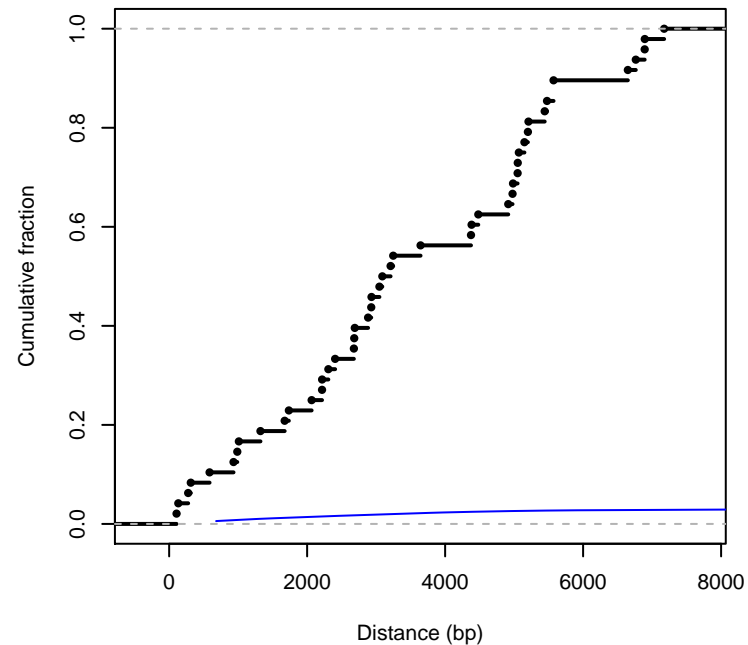
Query population : 69
Reference population : 1
Relative Ks p-value : 1.88738e-15
Relative ecdf deviation area : 0.243347
Relative ecdf area correlation : 0.973562
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.49963e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 331.111



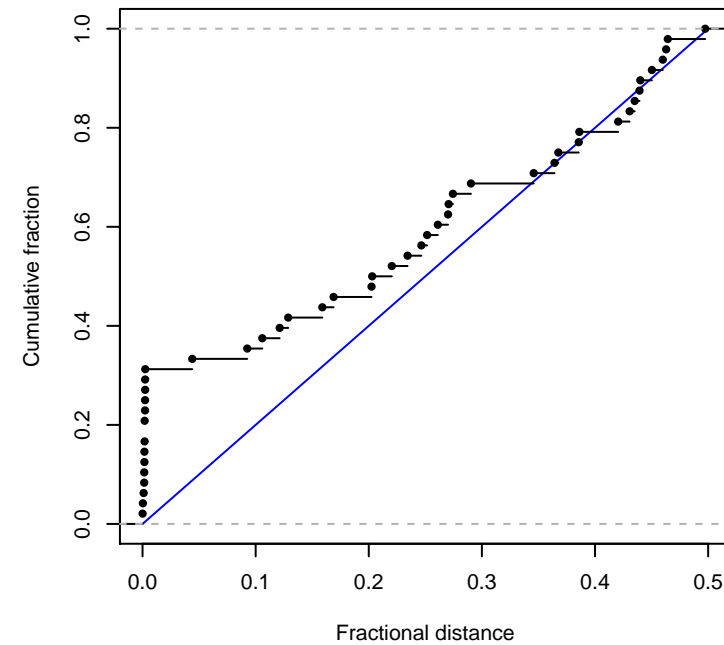
pcontig_138

Query population : 48
Reference population : 13
Relative Ks p-value : 0.000156102
Relative ecdf deviation area : 0.0463351
Relative ecdf area correlation : 0.173431
Relative ecdf deviation area p-value : 0.06000000000000001
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00168346
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.57808

Absolute distances

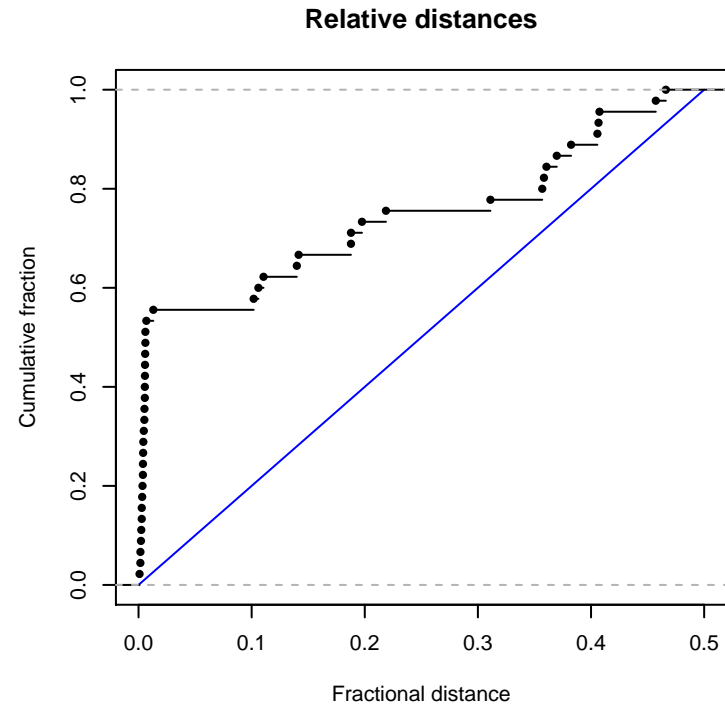
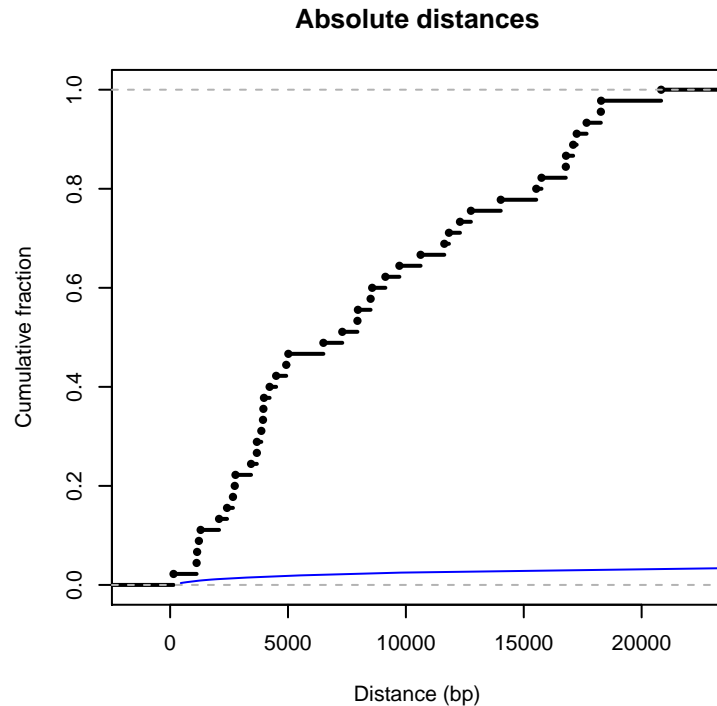


Relative distances



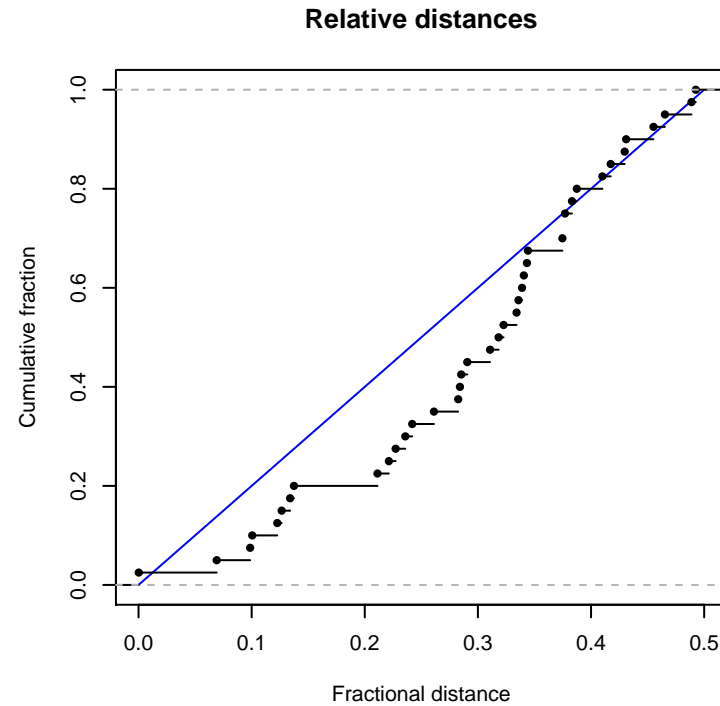
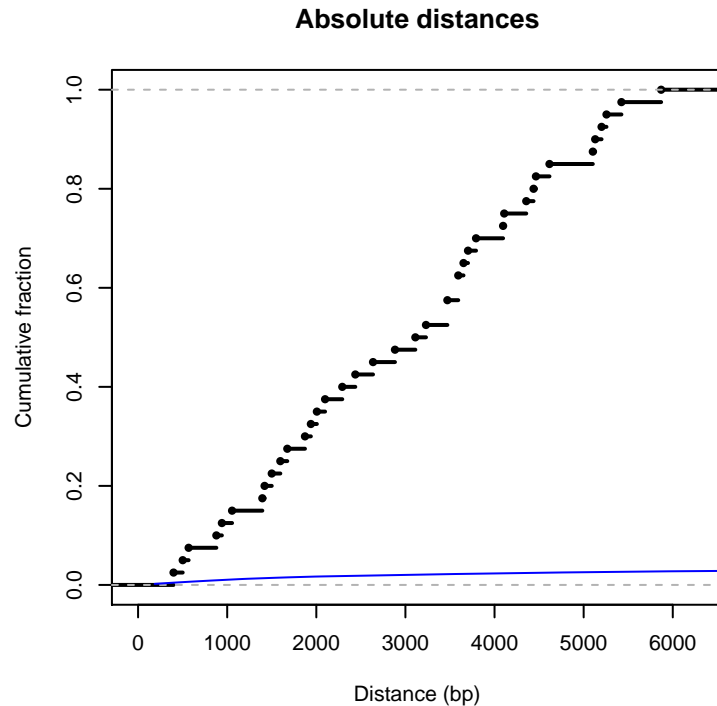
pcontig_139

Query population : 45
Reference population : 13
Relative Ks p-value : 2.72615e-12
Relative ecdf deviation area : 0.121491
Relative ecdf area correlation : 0.485649
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 : 0.019141
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.72666



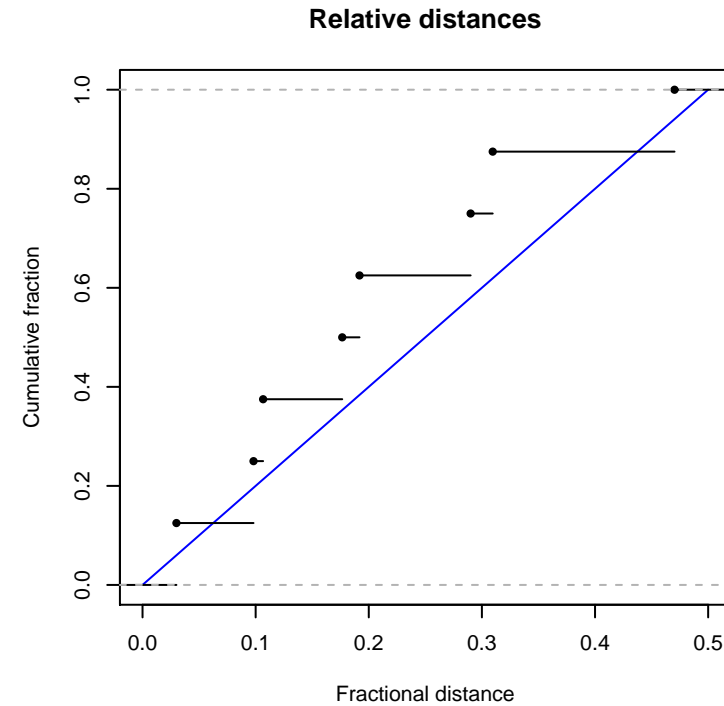
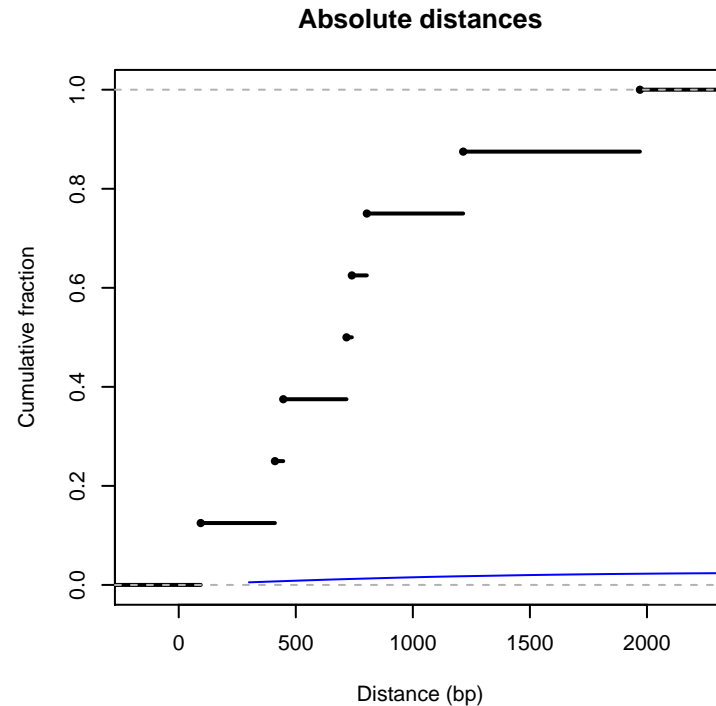
pcontig_140

Query population : 40
Reference population : 18
Relative Ks p-value : 0.0321027
Relative ecdf deviation area : 0.0468228
Relative ecdf area correlation : -0.18087
Relative ecdf deviation area p-value : 0.04
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 : 0.022047
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.37632



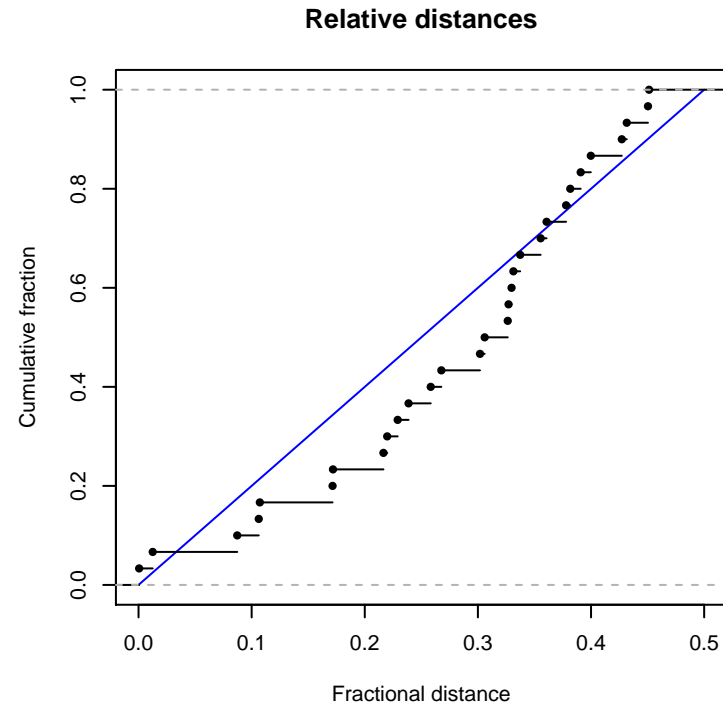
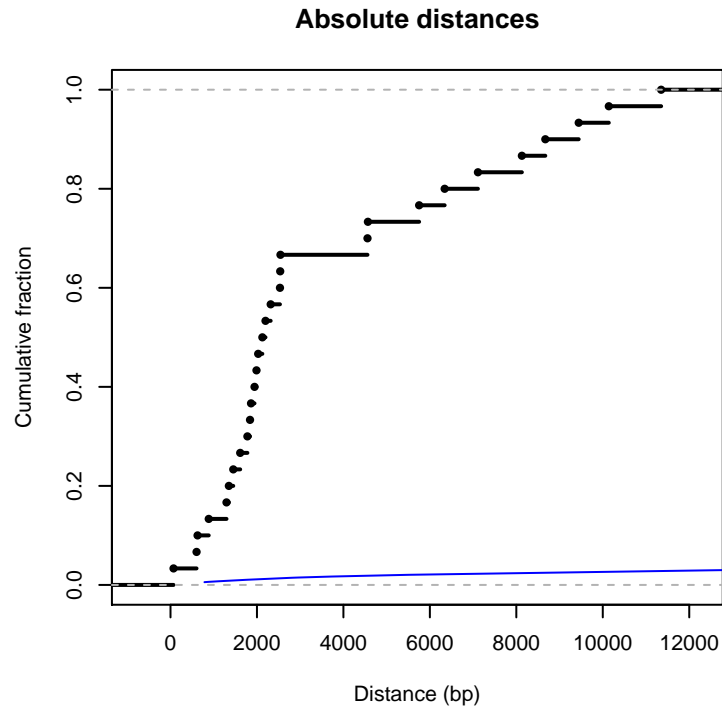
pcontig_146

Query population : 8
Reference population : 27
Relative Ks p-value : 0.585723
Relative ecdf deviation area : 0.0476673
Relative ecdf area correlation : 0.163544
Relative ecdf deviation area p-value : 0.64
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 : 0.00382296
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.4443



pcontig_147

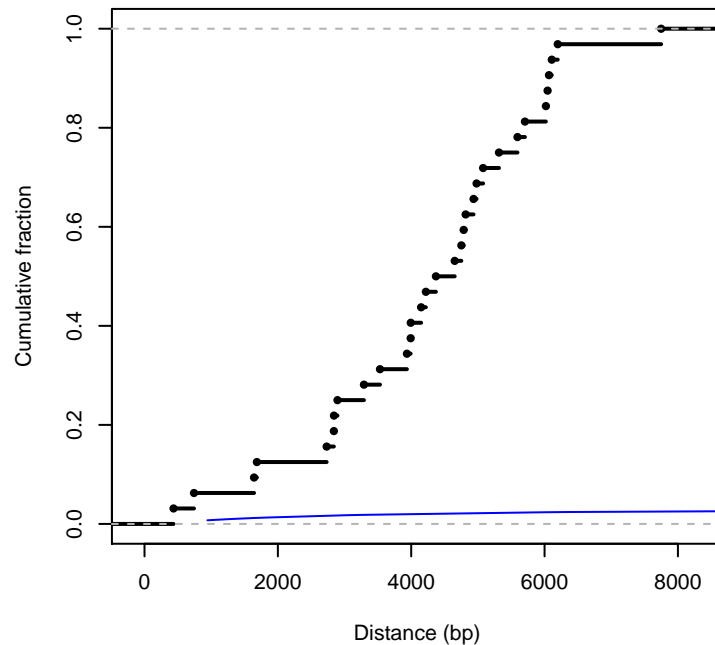
Query population : 30
Reference population : 11
Relative Ks p-value : 0.159245
Relative ecdf deviation area : 0.0412474
Relative ecdf area correlation : -0.116548
Relative ecdf deviation area p-value : 0.11
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0148454
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.38732



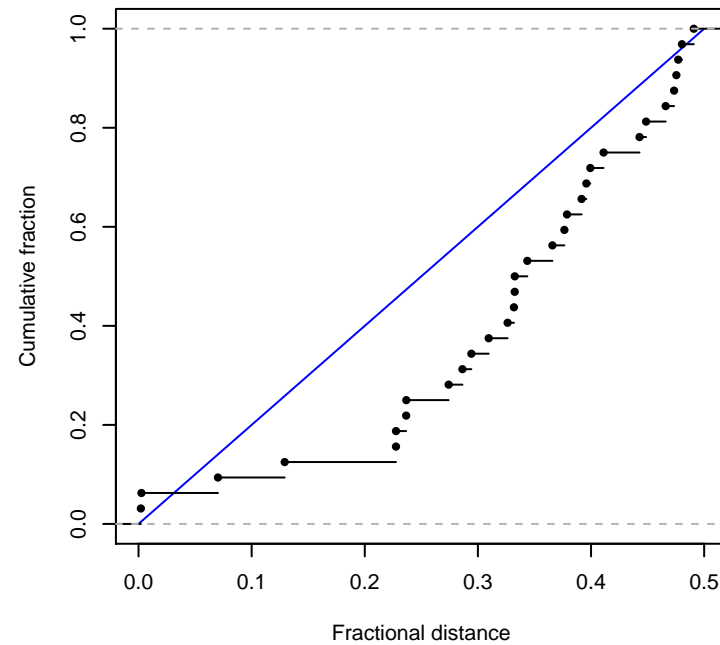
pcontig_148

Query population : 32
Reference population : 12
Relative Ks p-value : 0.00130932
Relative ecdf deviation area : 0.0779538
Relative ecdf area correlation : -0.304691
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 : 0.0347198
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.41067

Absolute distances

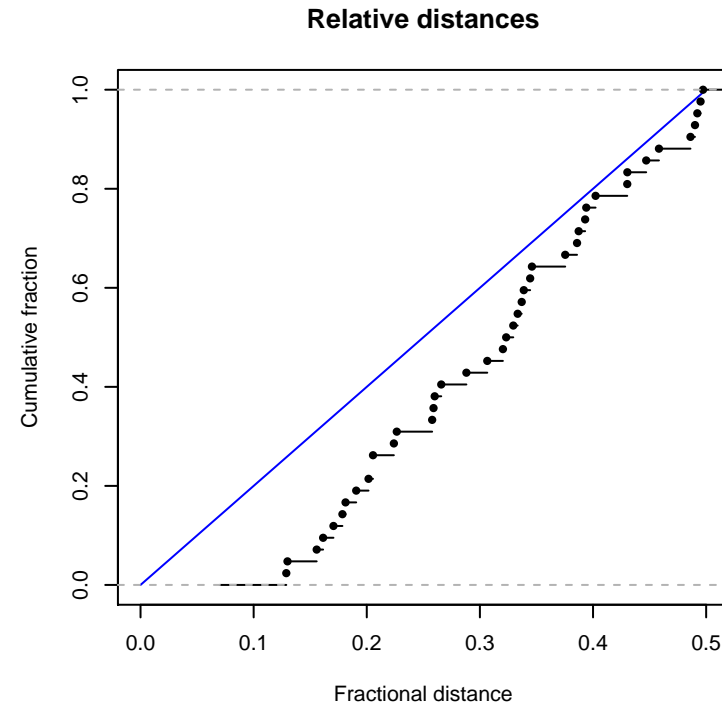
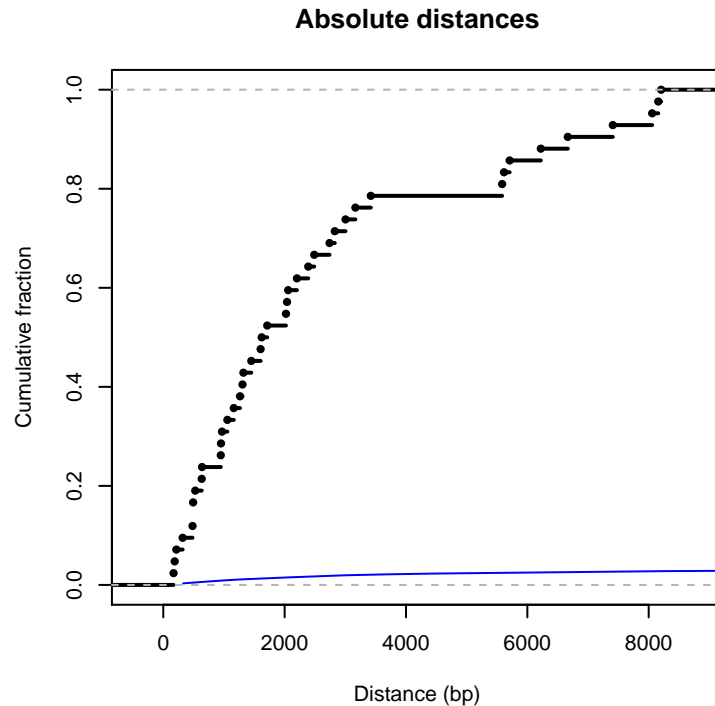


Relative distances



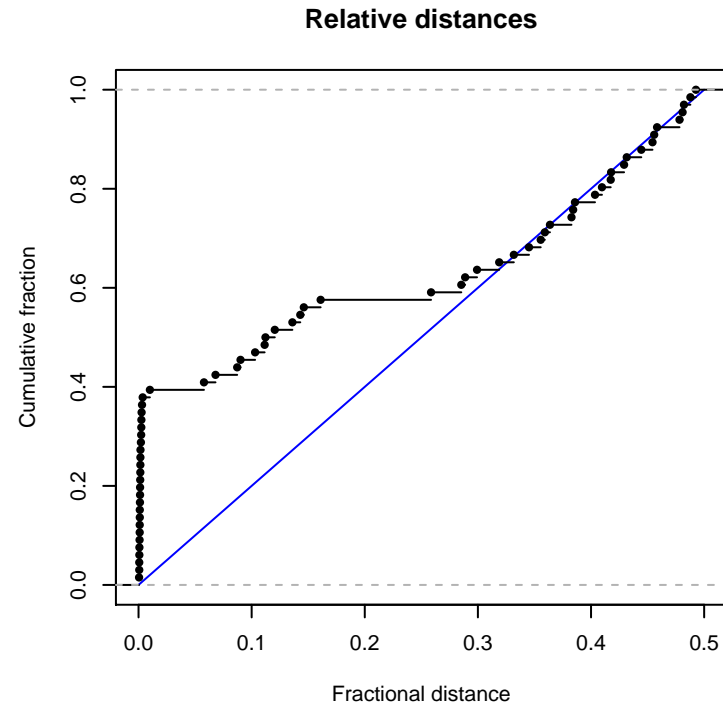
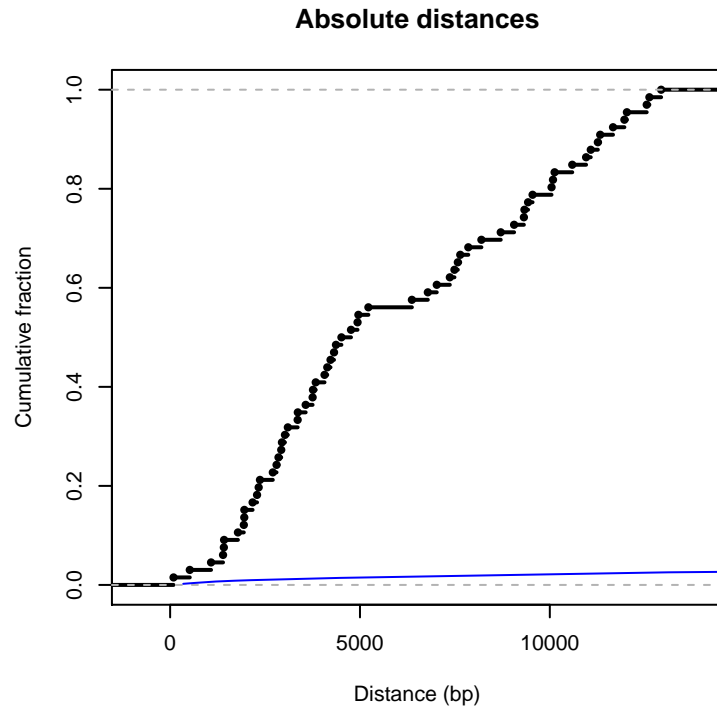
pcontig_149

Query population : 42
Reference population : 15
Relative Ks p-value : 0.00454535
Relative ecdf deviation area : 0.0653293
Relative ecdf area correlation : -0.260408
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 : 0.000116892
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.0105



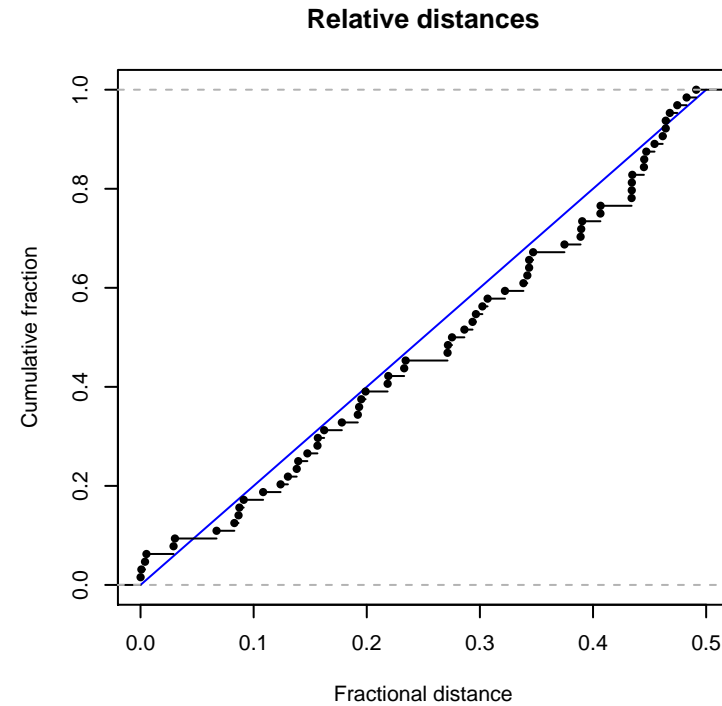
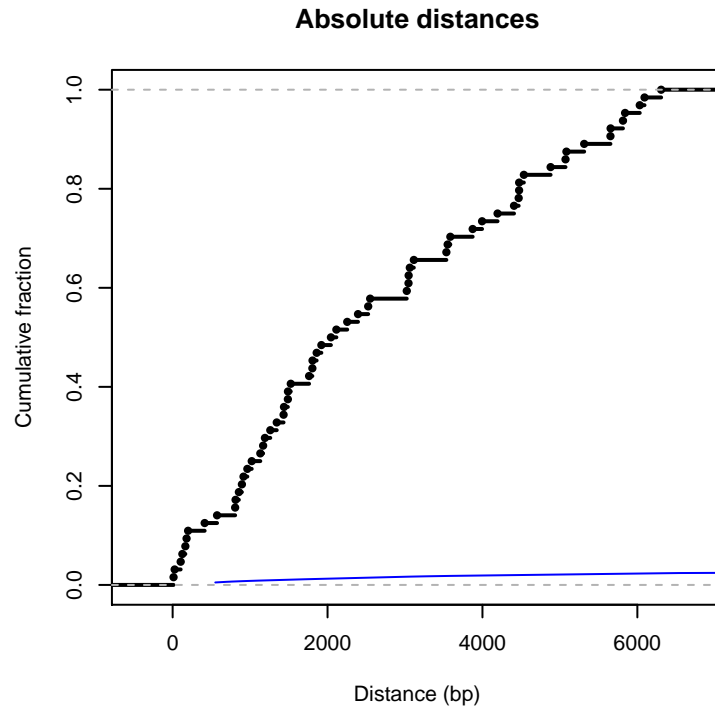
pcontig_150

Query population : 66
Reference population : 10
Relative Ks p-value : 8.64004e-09
Relative ecdf deviation area : 0.0658589
Relative ecdf area correlation : 0.243103
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0171925
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.02035



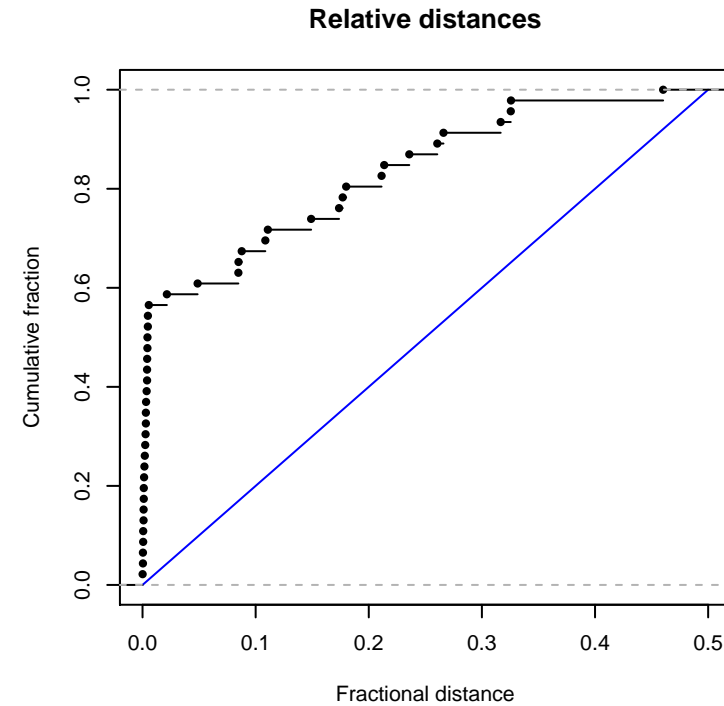
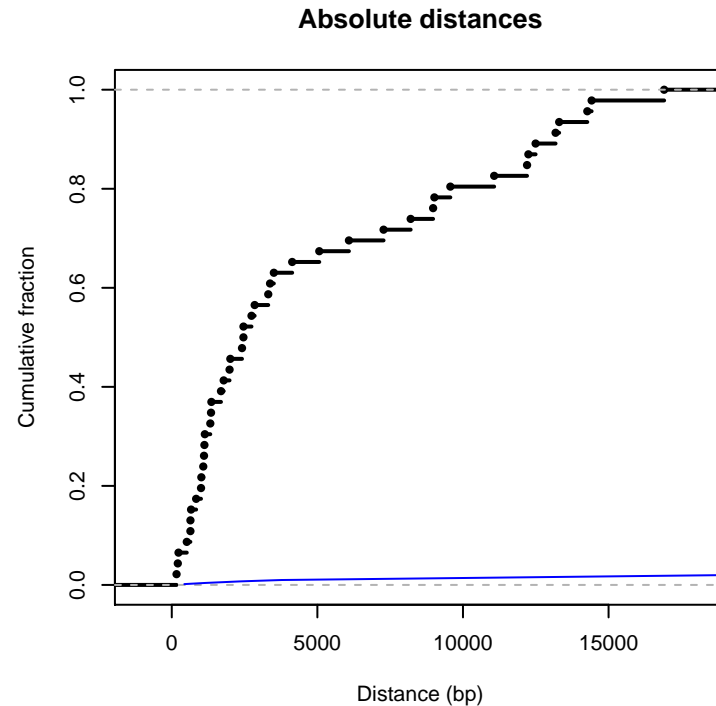
pcontig_152

Query population : 64
Reference population : 14
Relative Ks p-value : 0.479973
Relative ecdf deviation area : 0.0200979
Relative ecdf area correlation : -0.071444
Relative ecdf deviation area p-value : 0.39
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 : 2.38827e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 26.6632



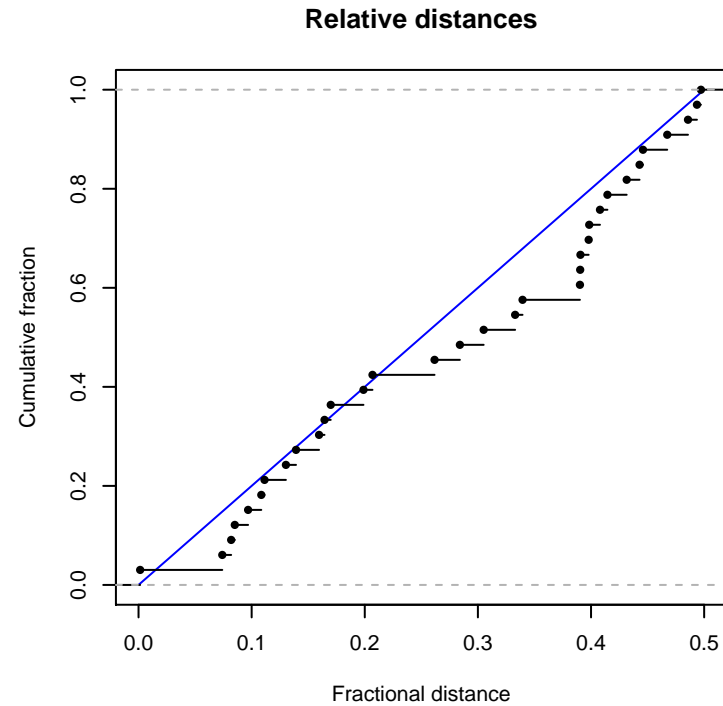
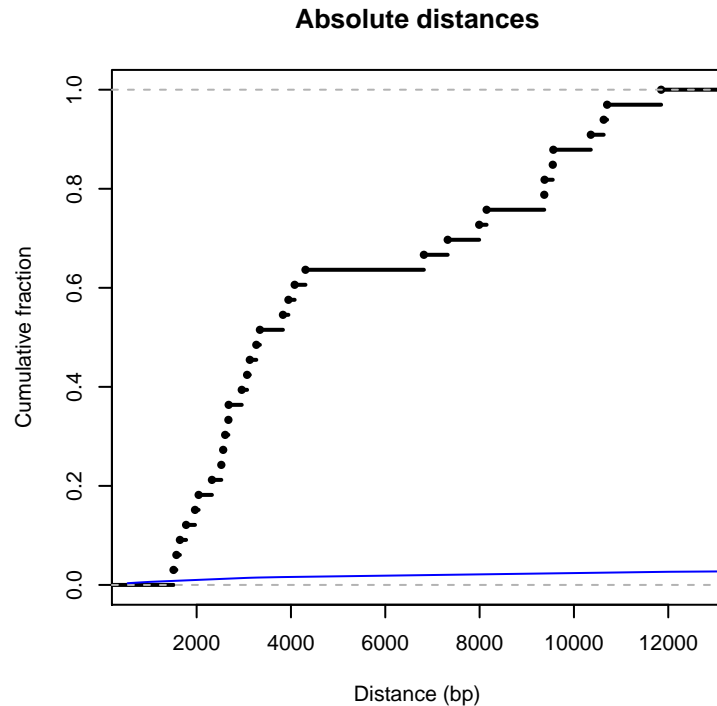
pcontig_154

Query population : 46
Reference population : 6
Relative Ks p-value : $8.17124e-14$
Relative ecdf deviation area : 0.165399
Relative ecdf area correlation : 0.660307
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 : $4.81523e-05$
Projection test lower tail : FALSE
Projection test observed to expected ratio : 29.1202



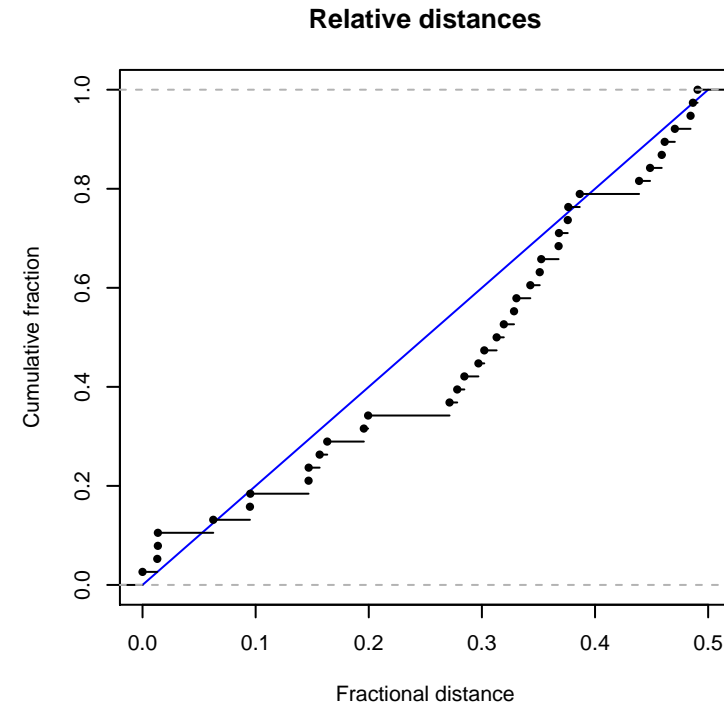
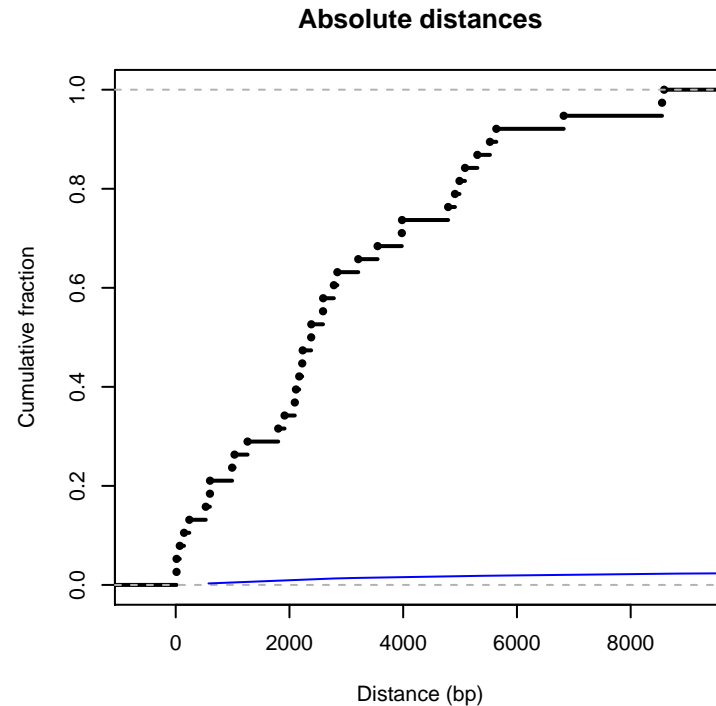
pcontig_157

Query population : 33
Reference population : 10
Relative Ks p-value : 0.109075
Relative ecdf deviation area : 0.0328162
Relative ecdf area correlation : -0.127982
Relative ecdf deviation area p-value : 0.28
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 : 0.121285
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



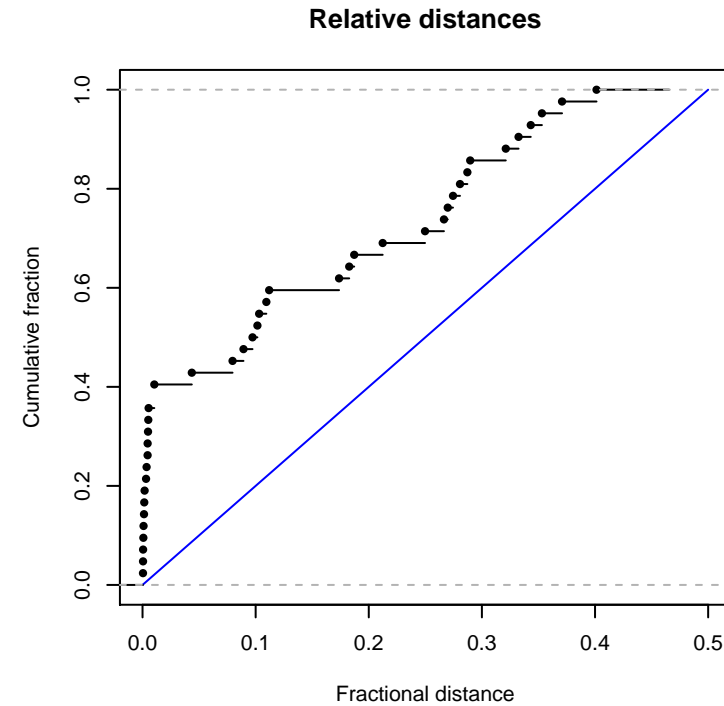
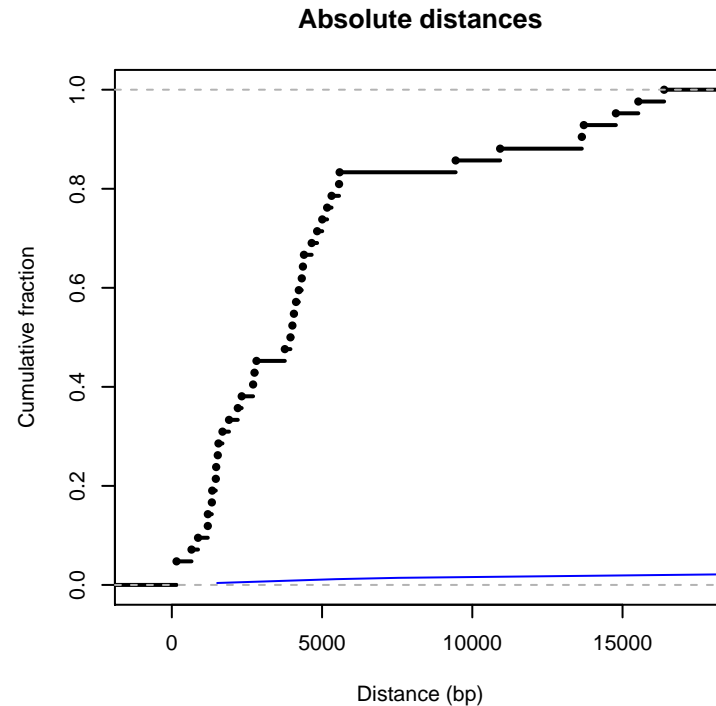
pcontig_163

Query population : 38
Reference population : 8
Relative Ks p-value : 0.0811111
Relative ecdf deviation area : 0.0352078
Relative ecdf area correlation : -0.124983
Relative ecdf deviation area p-value : 0.17
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 : 9.27012e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 22.8014



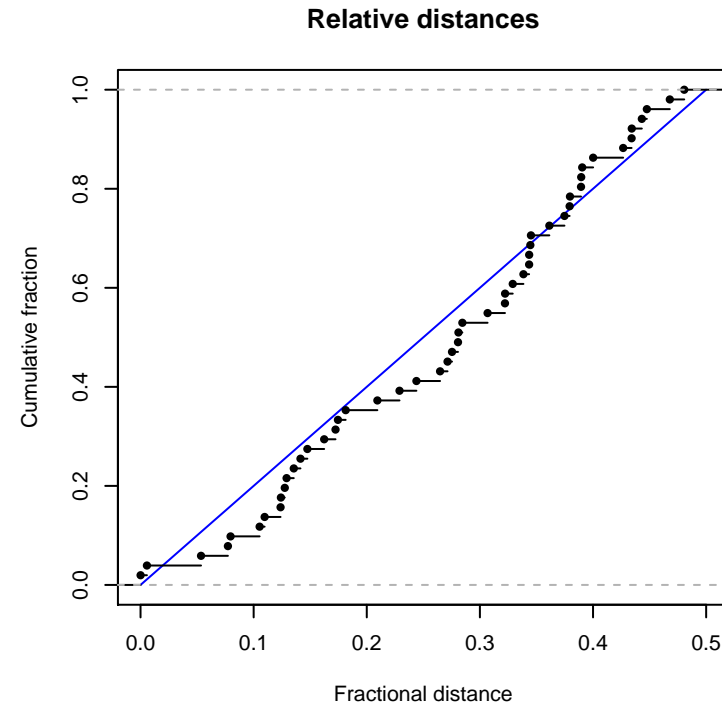
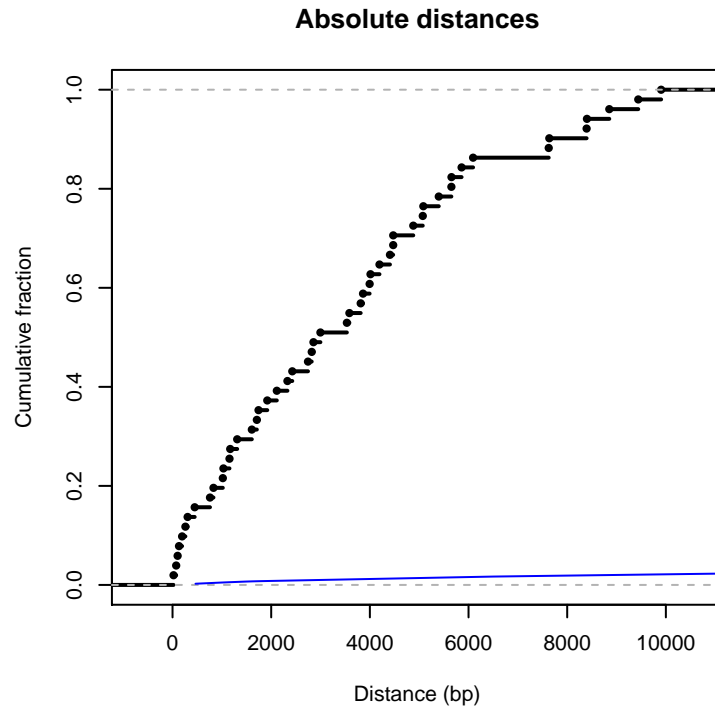
pcontig_164

Query population : 42
Reference population : 4
Relative Ks p-value : 4.44265e-06
Relative ecdf deviation area : 0.117311
Relative ecdf area correlation : 0.46754
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 : 4.03683e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 66.9997



pcontig_165

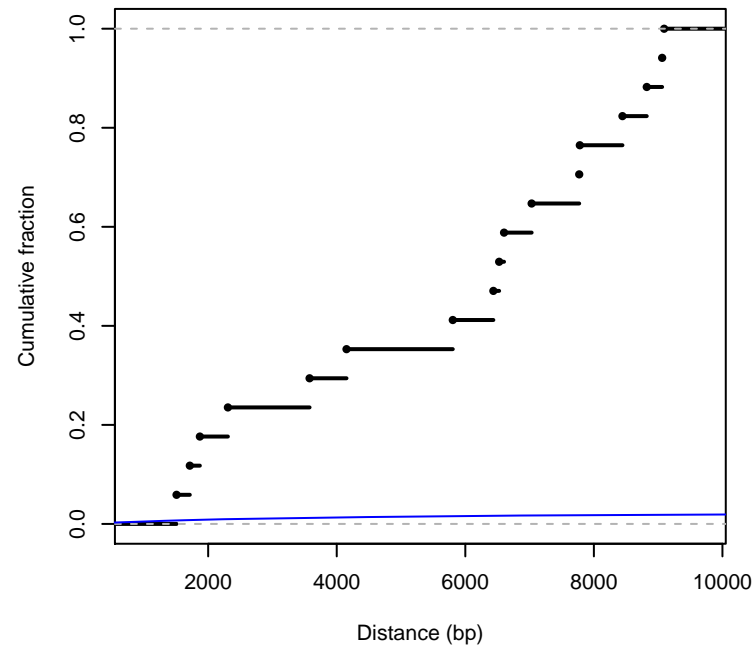
Query population : 51
Reference population : 8
Relative Ks p-value : 0.444585
Relative ecdf deviation area : 0.0254101
Relative ecdf area correlation : -0.0654603
Relative ecdf deviation area p-value : 0.26
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.63078e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 47.814



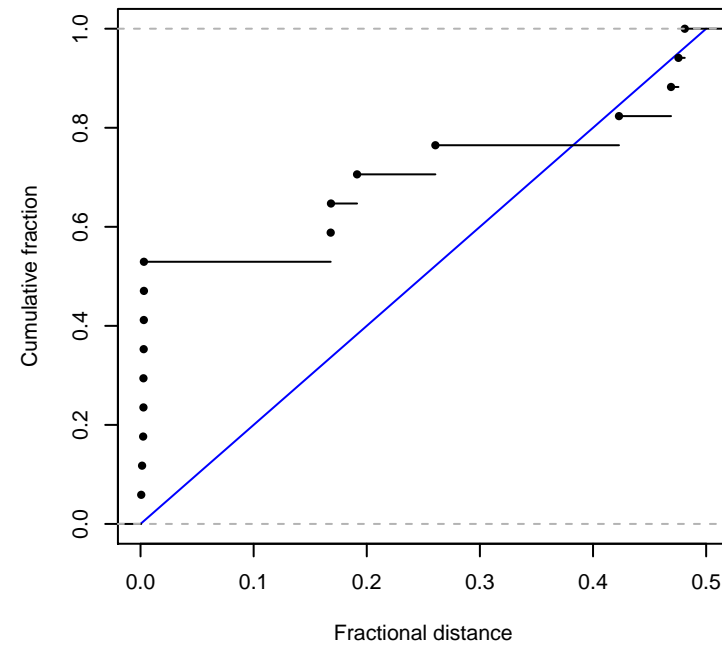
pcontig_166

Query population : 17
Reference population : 8
Relative Ks p-value : 7.30045e-05
Relative ecdf deviation area : 0.104333
Relative ecdf area correlation : 0.374559
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 : 0.13
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0851576
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

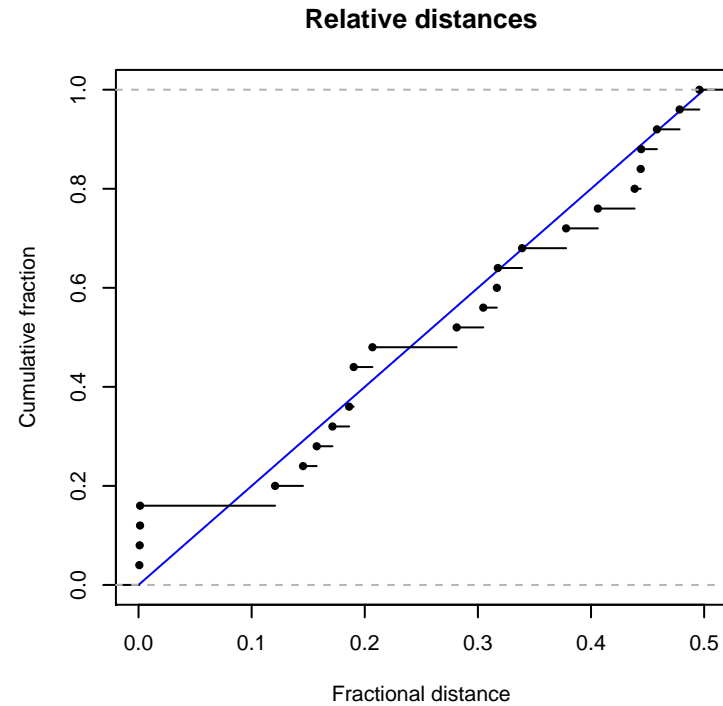
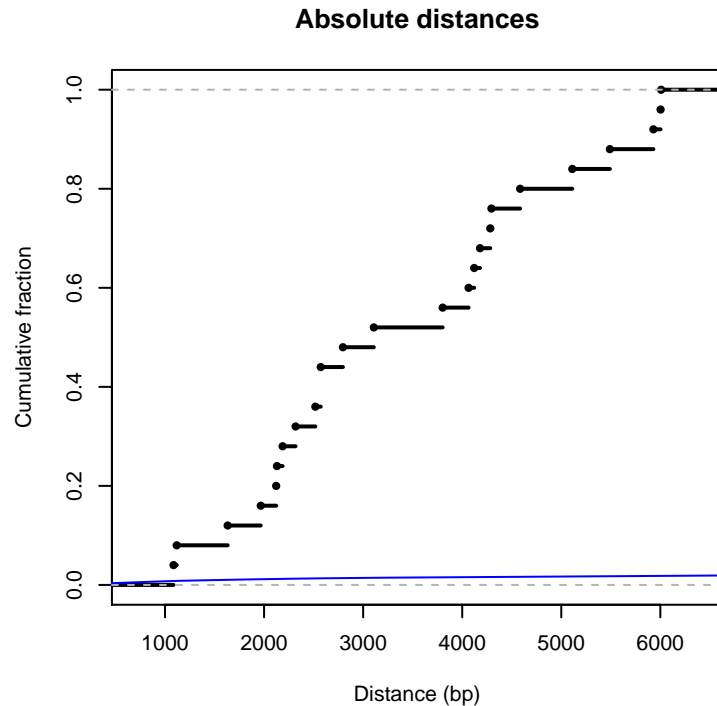


Relative distances



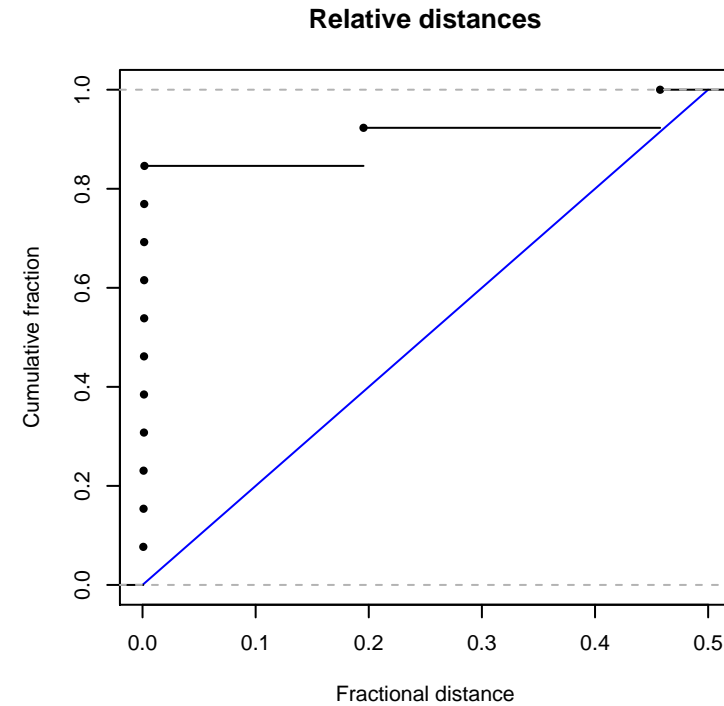
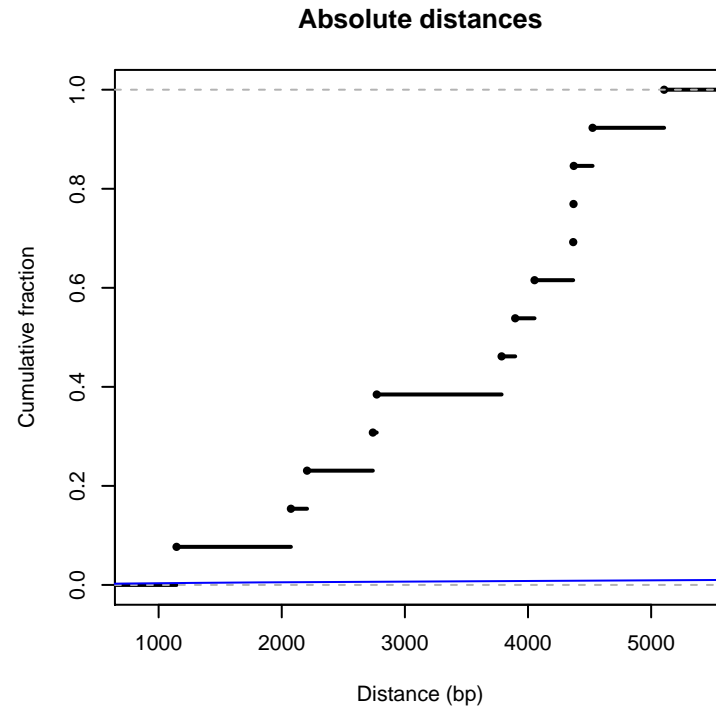
pcontig_170

Query population : 25
Reference population : 13
Relative Ks p-value : 0.51645
Relative ecdf deviation area : 0.0246719
Relative ecdf area correlation : -0.0360836
Relative ecdf deviation area p-value : 0.62
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 : 0.0895365
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



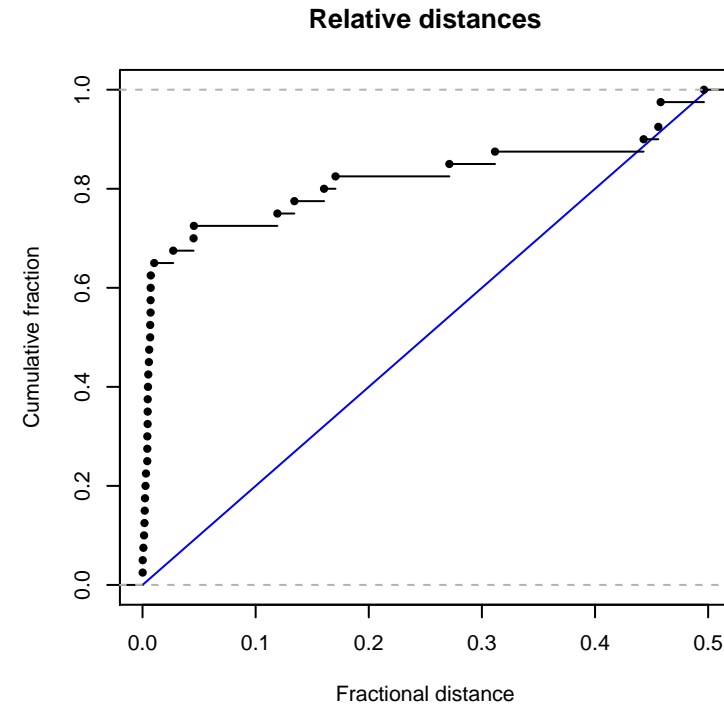
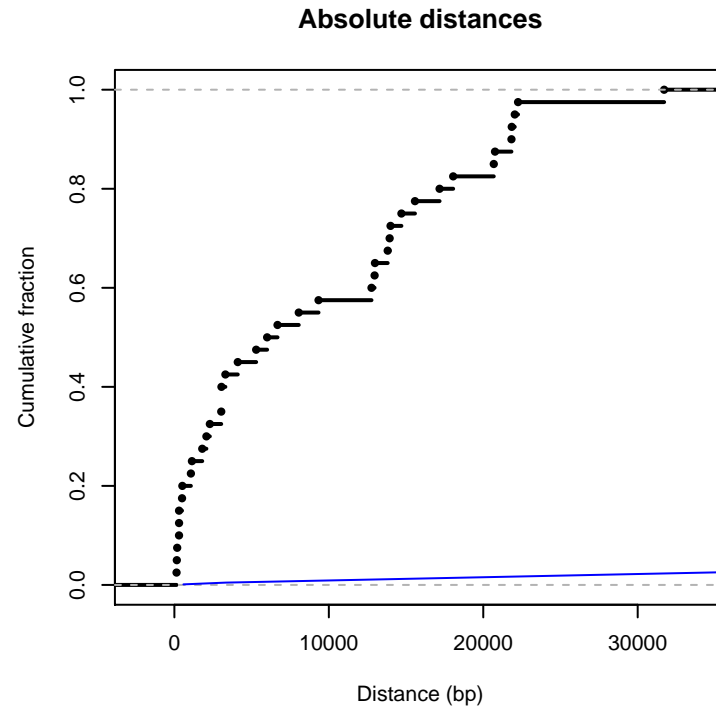
pcontig_171

Query population : 13
Reference population : 7
Relative Ks p-value : 7.31123e-11
Relative ecdf deviation area : 0.198946
Relative ecdf area correlation : 0.794866
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 : 0.0279027
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



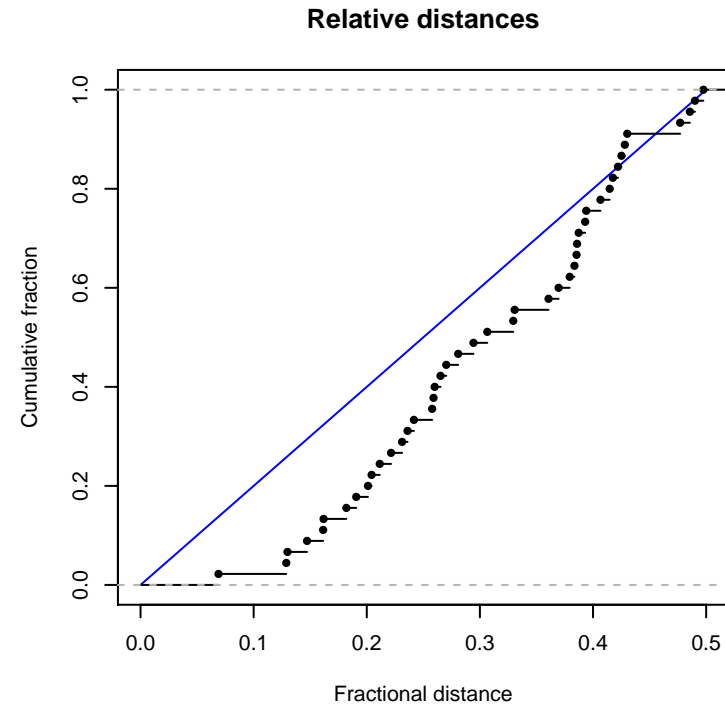
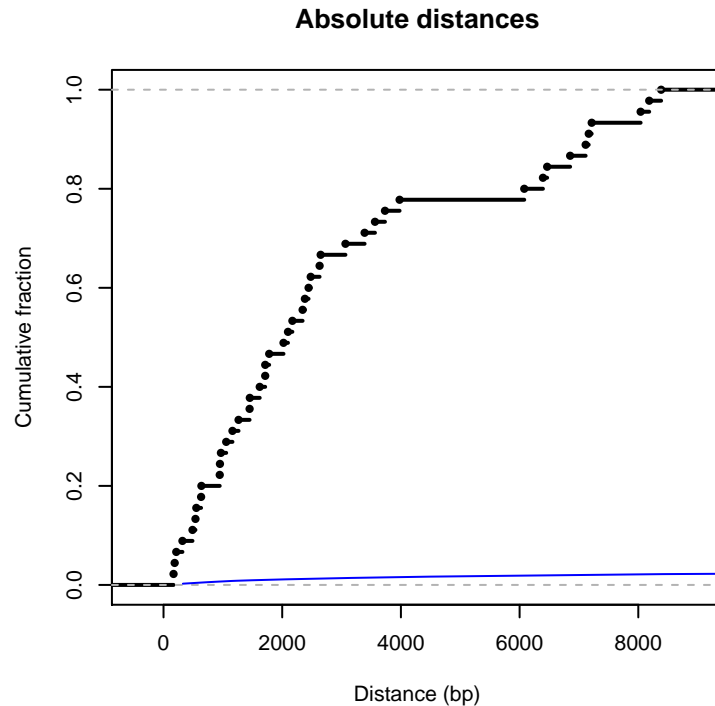
pcontig_172

Query population : 40
Reference population : 3
Relative Ks p-value : 0
Relative ecdf deviation area : 0.157539
Relative ecdf area correlation : 0.628978
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 : 1.87421e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 80.5261



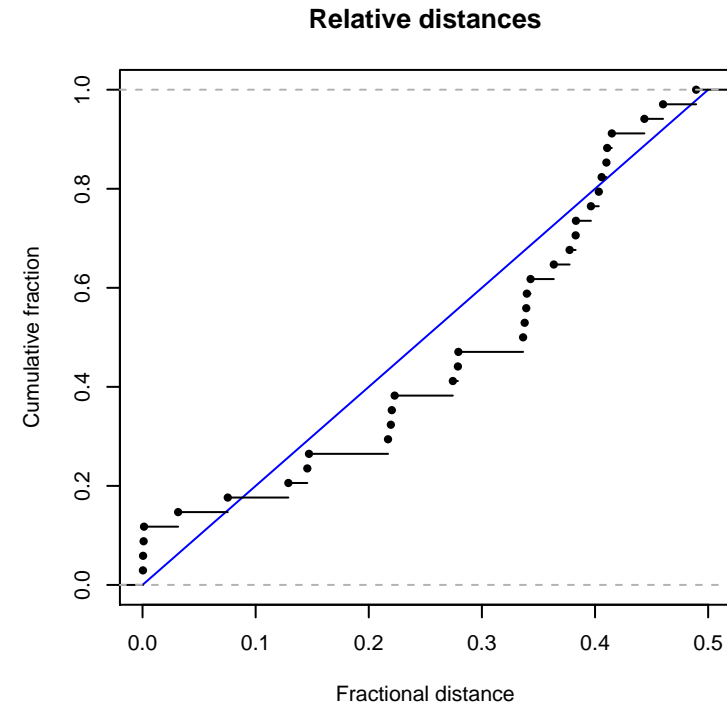
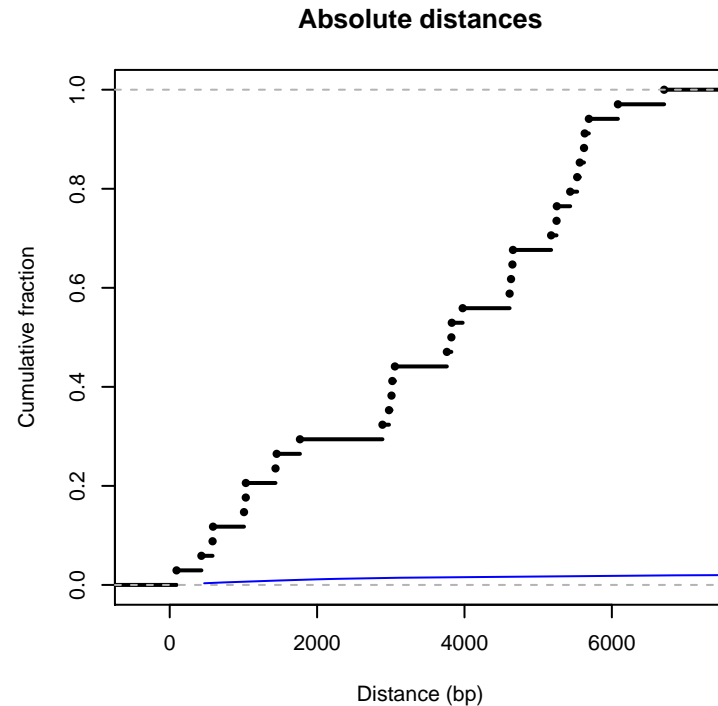
pcontig_173

Query population : 45
Reference population : 12
Relative Ks p-value : 0.0111637
Relative ecdf deviation area : 0.0604534
Relative ecdf area correlation : -0.236049
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 : 3.14849e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 16.9304



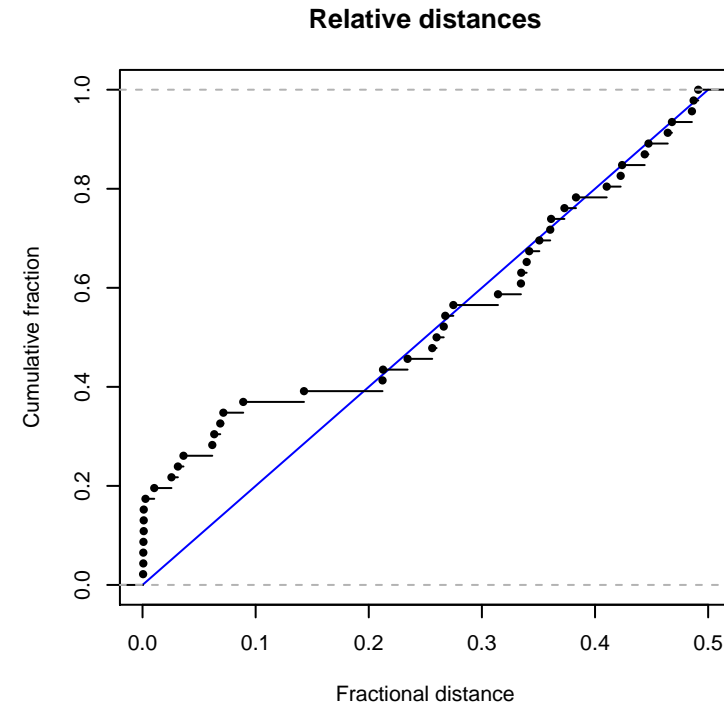
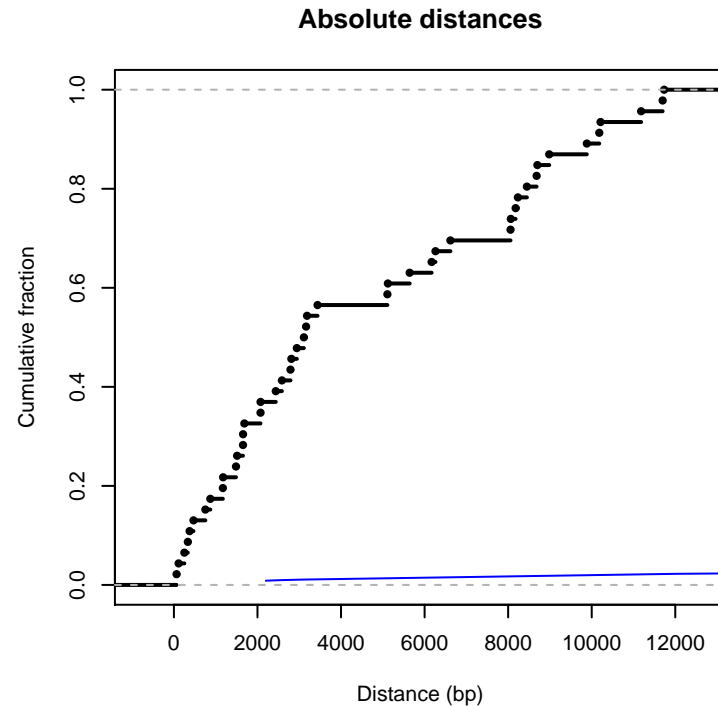
pcontig_174

Query population : 34
Reference population : 11
Relative Ks p-value : 0.107316
Relative ecdf deviation area : 0.03847
Relative ecdf area correlation : -0.0919127
Relative ecdf deviation area p-value : 0.22
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 : 0.00141104
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.05507



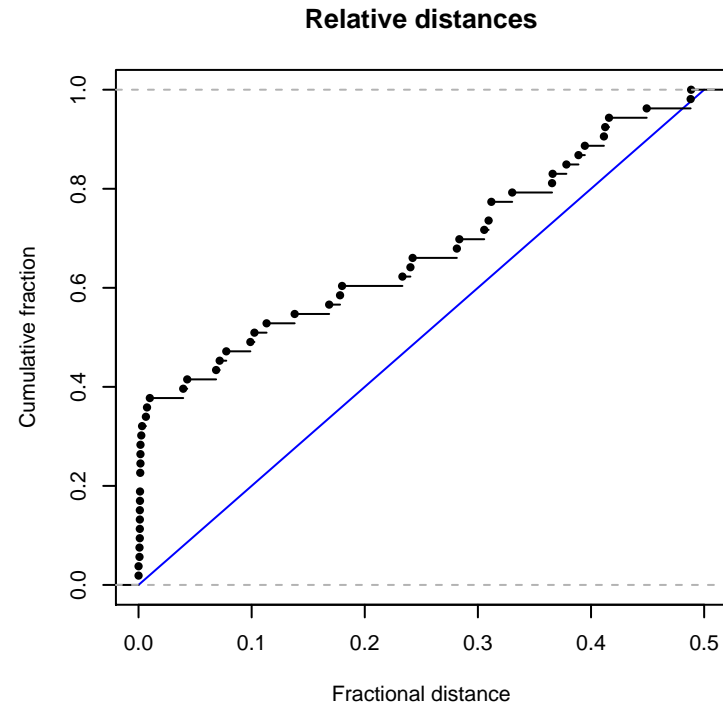
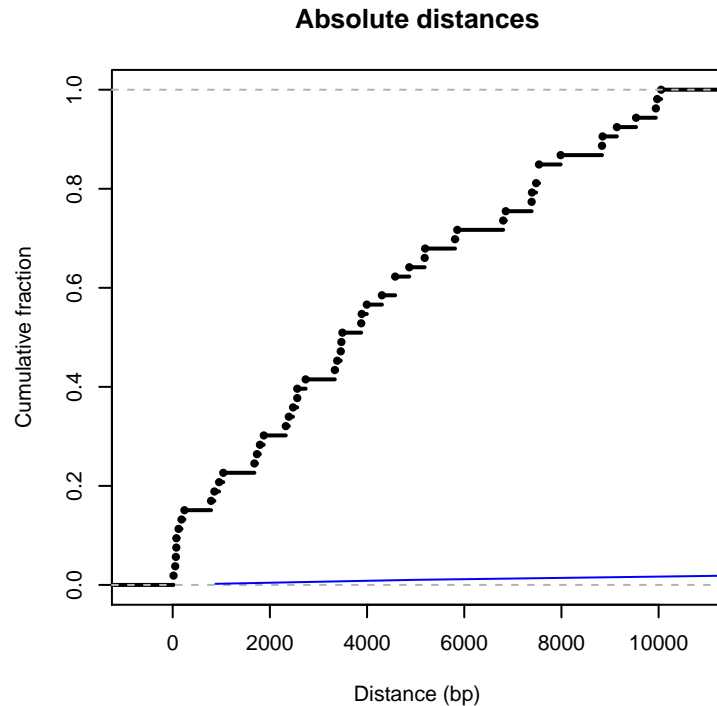
pcontig_176

Query population : 46
Reference population : 6
Relative Ks p-value : 0.0359444
Relative ecdf deviation area : 0.0319994
Relative ecdf area correlation : 0.0756
Relative ecdf deviation area p-value : 0.17
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 : 1.15966e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 21.9833



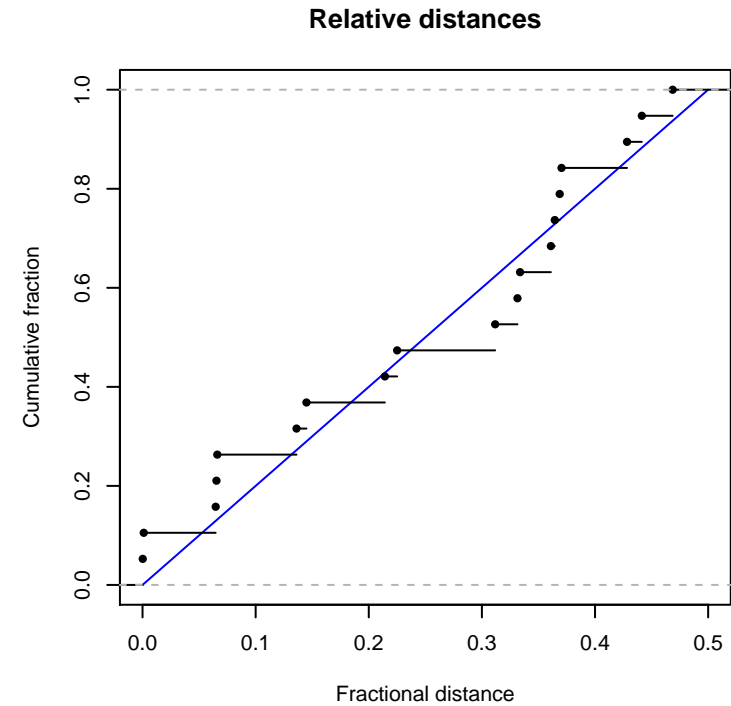
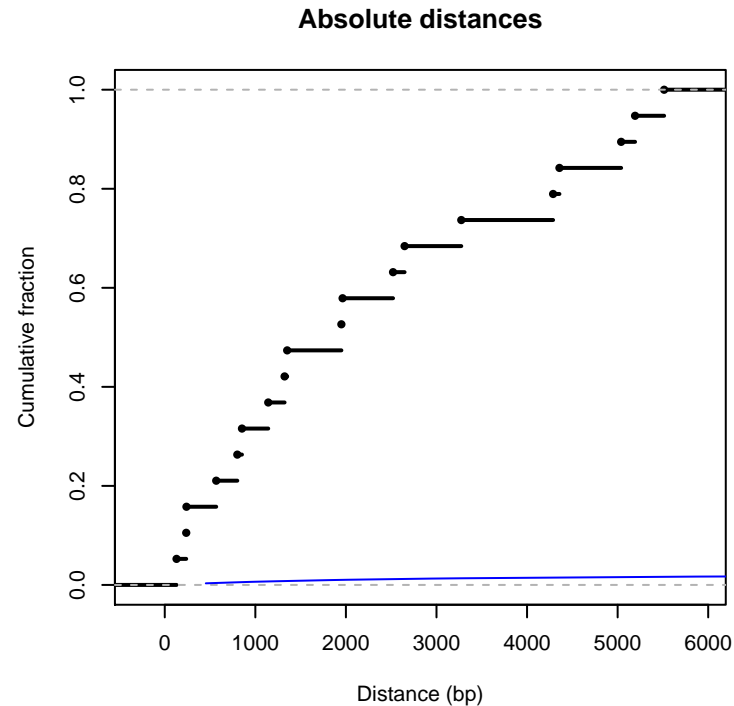
pcontig_177

Query population : 53
Reference population : 4
Relative Ks p-value : 1.44995e-06
Relative ecdf deviation area : 0.0856891
Relative ecdf area correlation : 0.340753
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 : 2.22045e-16
Projection test lower tail : FALSE
Projection test observed to expected ratio : 161.952



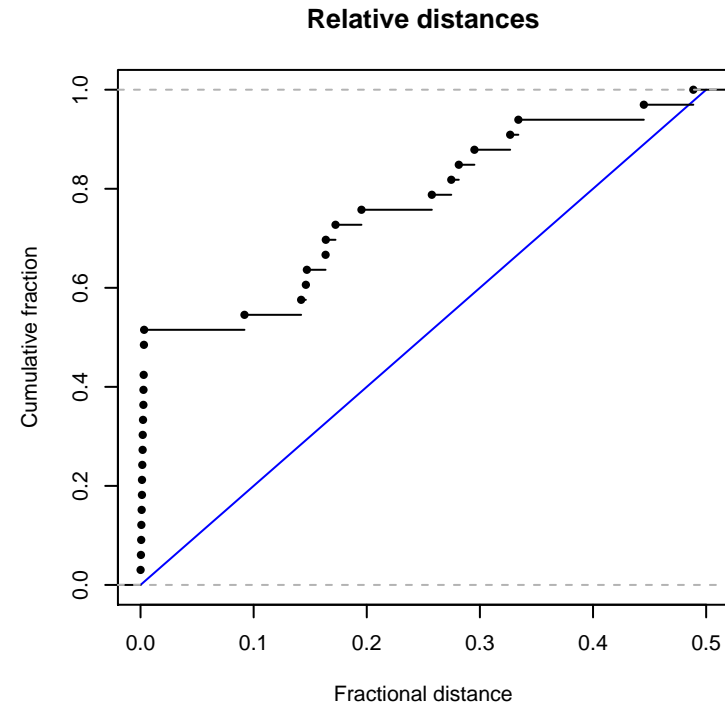
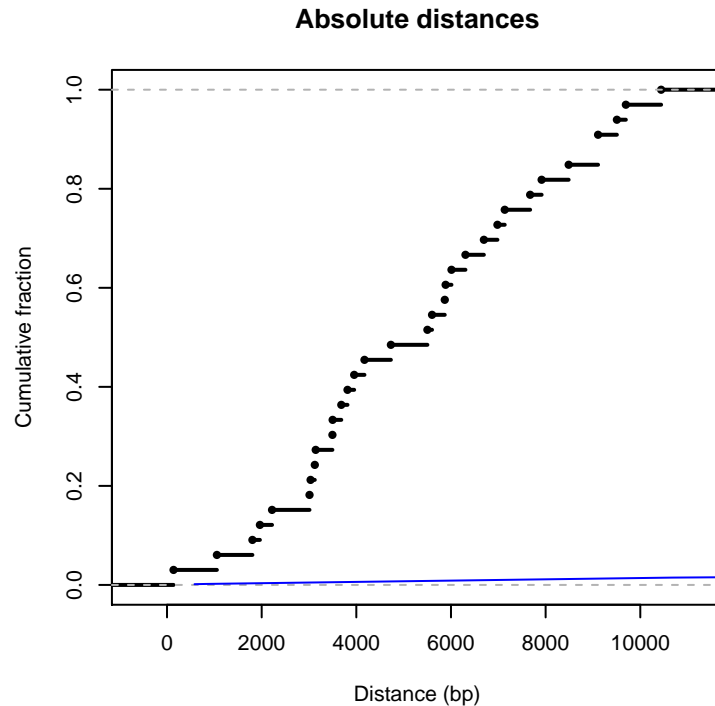
pcontig_179

Query population : 19
Reference population : 11
Relative Ks p-value : 0.733119
Relative ecdf deviation area : 0.0255405
Relative ecdf area correlation : 0.0110612
Relative ecdf deviation area p-value : 0.65
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 : 1.61253e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 61.3405



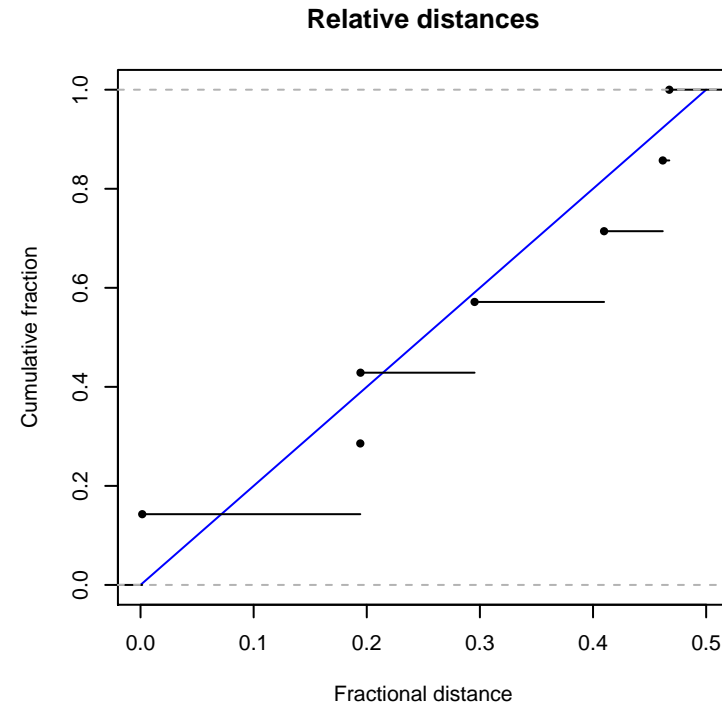
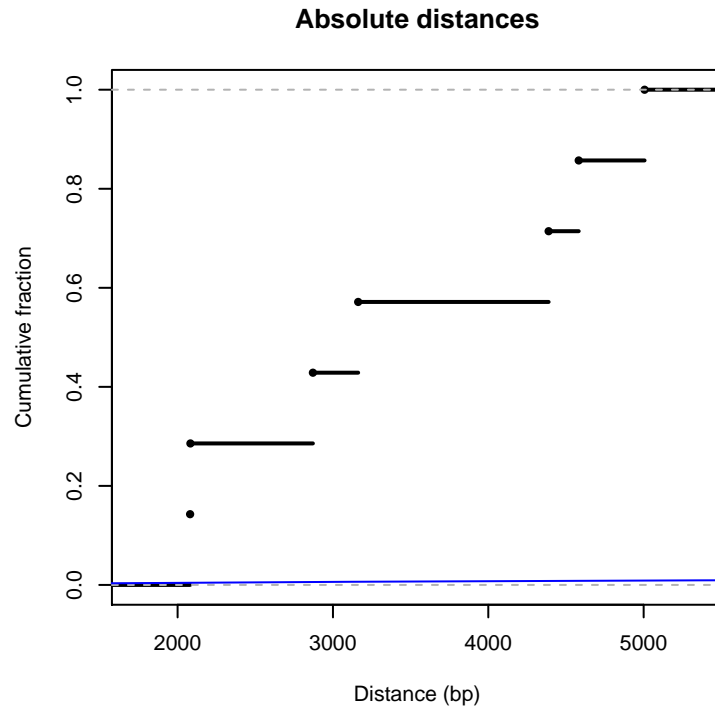
pcontig_181

Query population : 33
Reference population : 4
Relative Ks p-value : 1.91141e-08
Relative ecdf deviation area : 0.129025
Relative ecdf area correlation : 0.520615
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 : 3.78271e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 31.3263



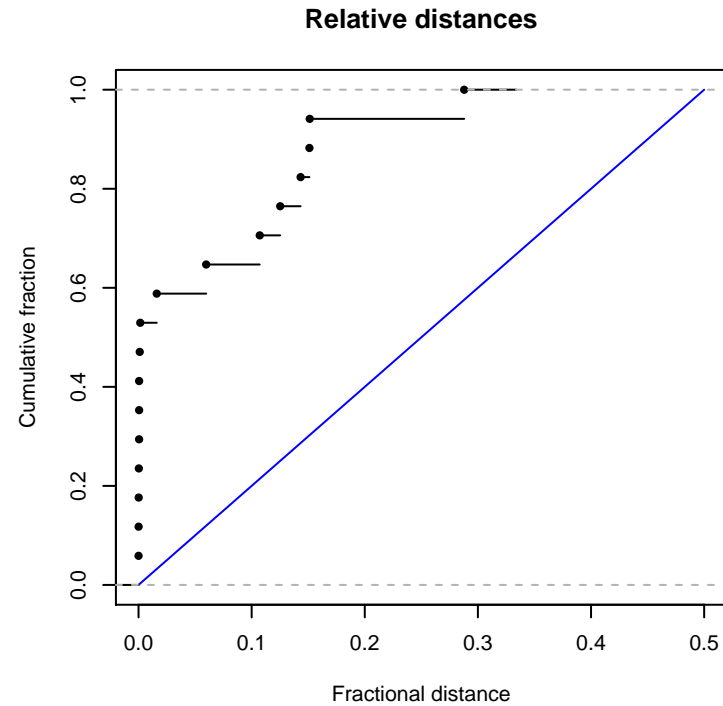
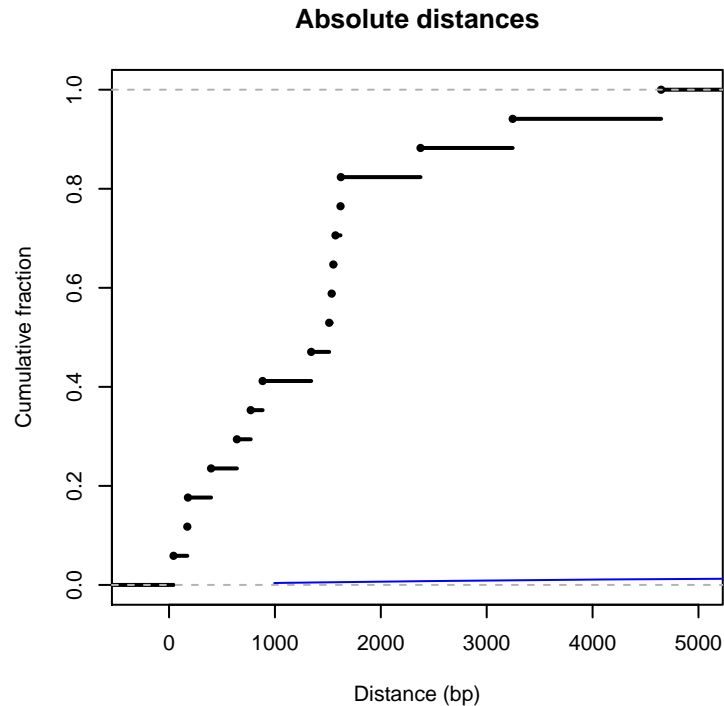
pcontig_185

Query population : 7
Reference population : 4
Relative Ks p-value : 0.697303
Relative ecdf deviation area : 0.0520437
Relative ecdf area correlation : -0.156789
Relative ecdf deviation area p-value : 0.61
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0111834
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



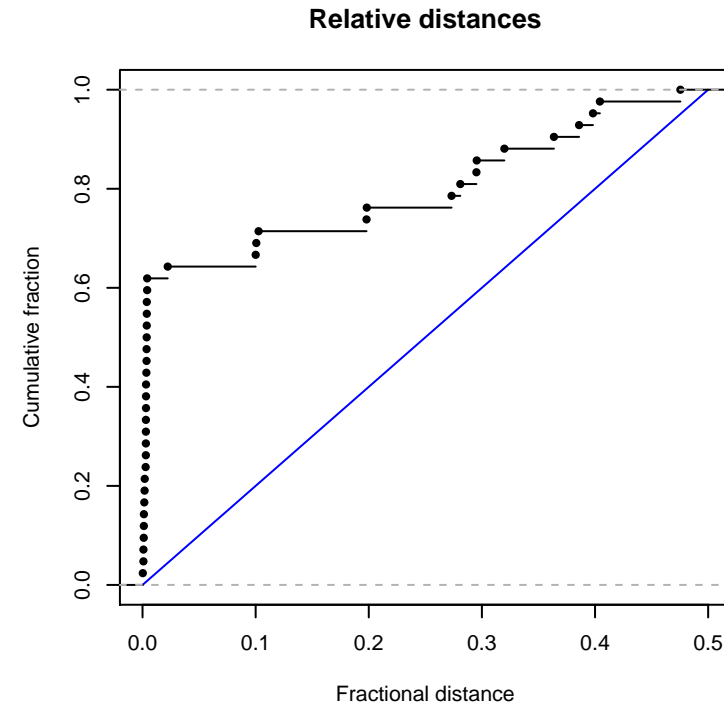
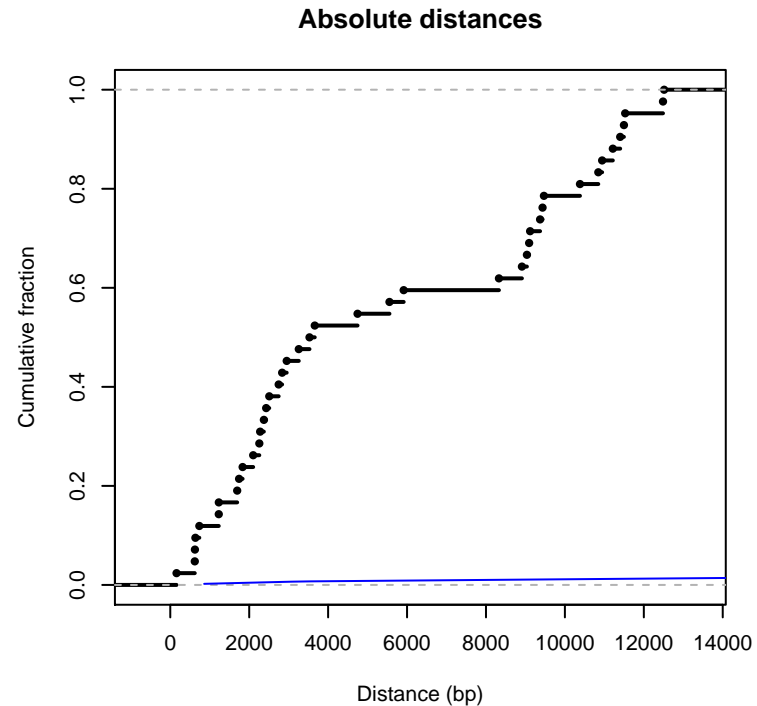
pcontig_186

Query population : 17
Reference population : 6
Relative Ks p-value : 2.8967e-07
Relative ecdf deviation area : 0.188619
Relative ecdf area correlation : 0.753794
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 : 190.989



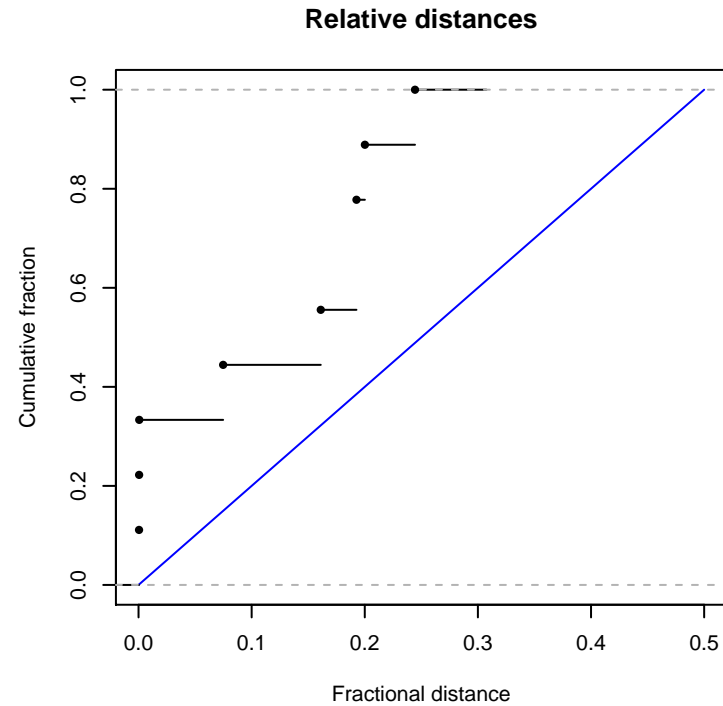
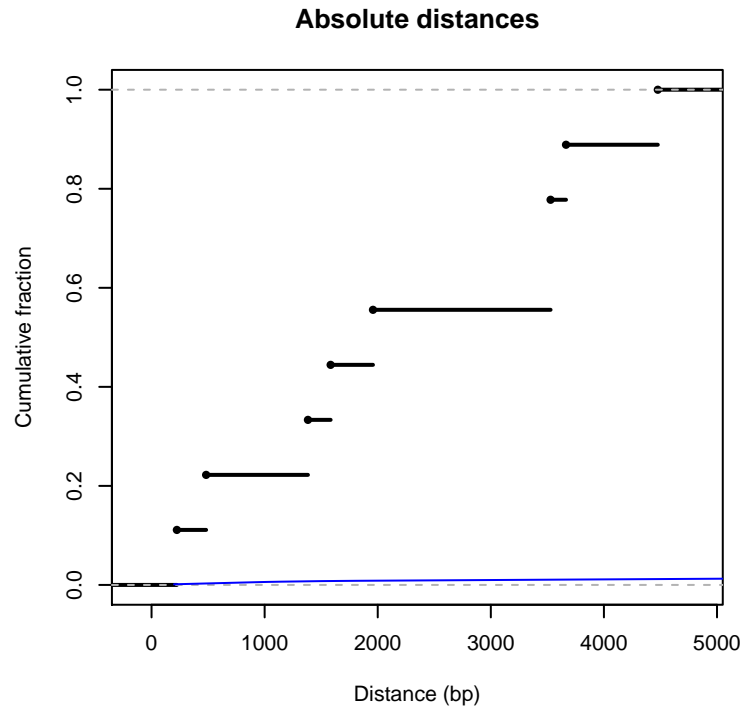
pcontig_187

Query population : 42
Reference population : 4
Relative Ks p-value : 8.88178e-16
Relative ecdf deviation area : 0.148008
Relative ecdf area correlation : 0.592217
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 : 0.000777634
Projection test lower tail : FALSE
Projection test observed to expected ratio : 24.7342



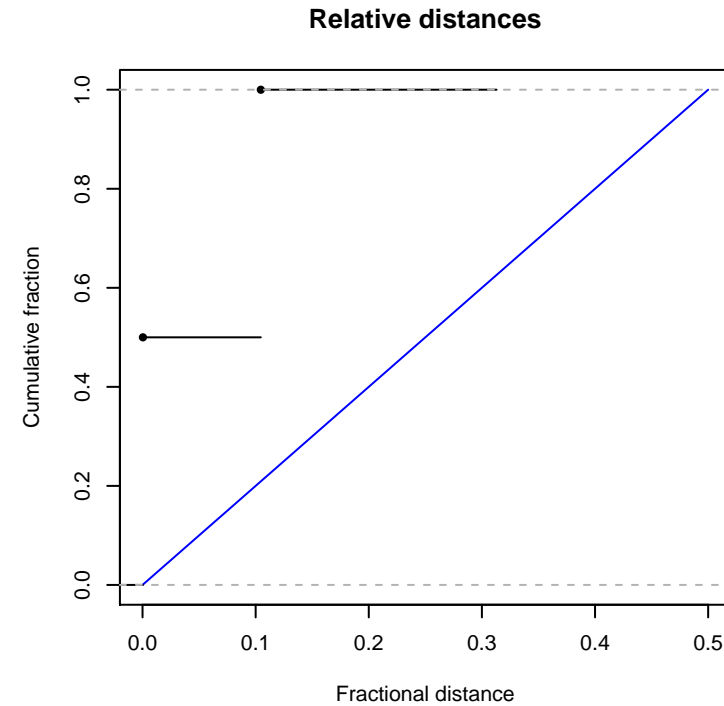
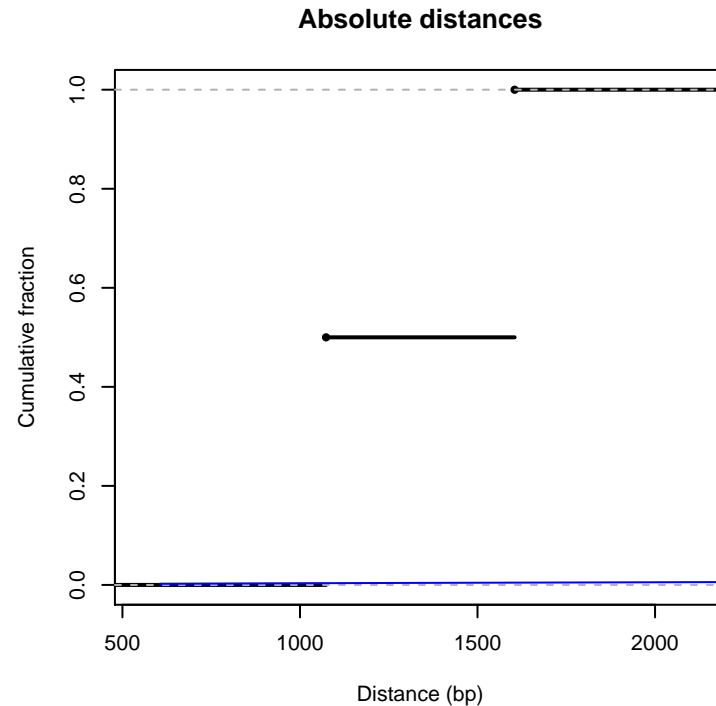
pcontig_188

Query population : 9
Reference population : 10
Relative Ks p-value : 0.0104672
Relative ecdf deviation area : 0.130945
Relative ecdf area correlation : 0.52563
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 : 3.87559e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 88.8737



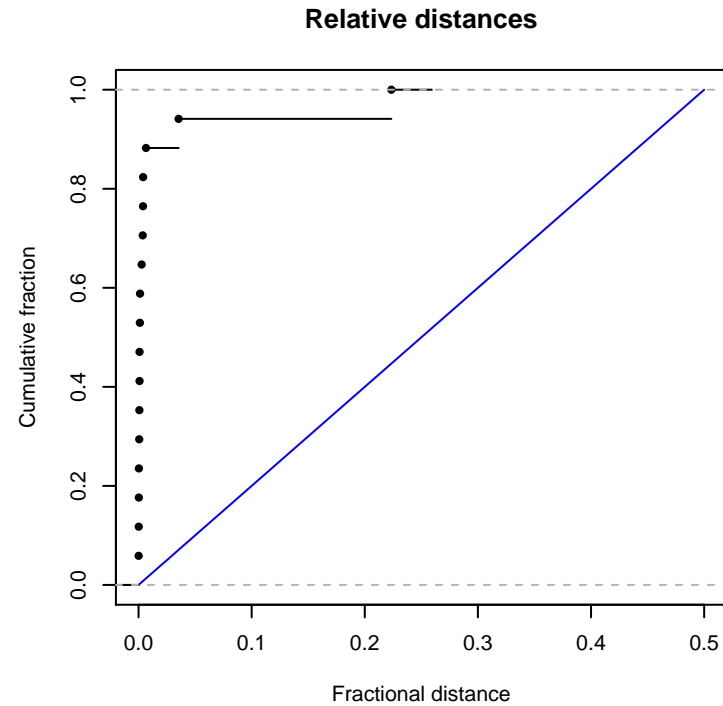
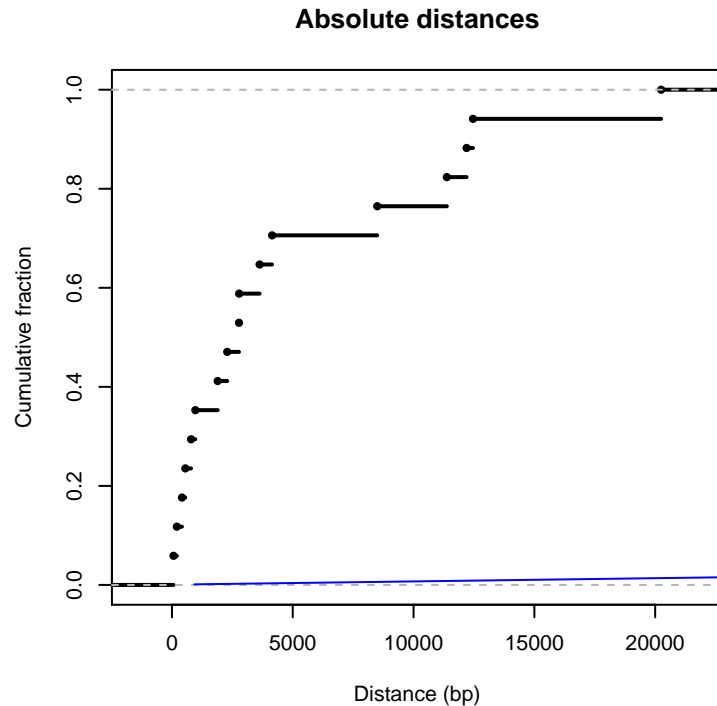
pcontig_189

Query population : 2
Reference population : 6
Relative Ks p-value : 0.087471
Relative ecdf deviation area : 0.197983
Relative ecdf area correlation : 0.790165
Relative ecdf deviation area p-value : 0.03
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 : 0.00514749
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_191

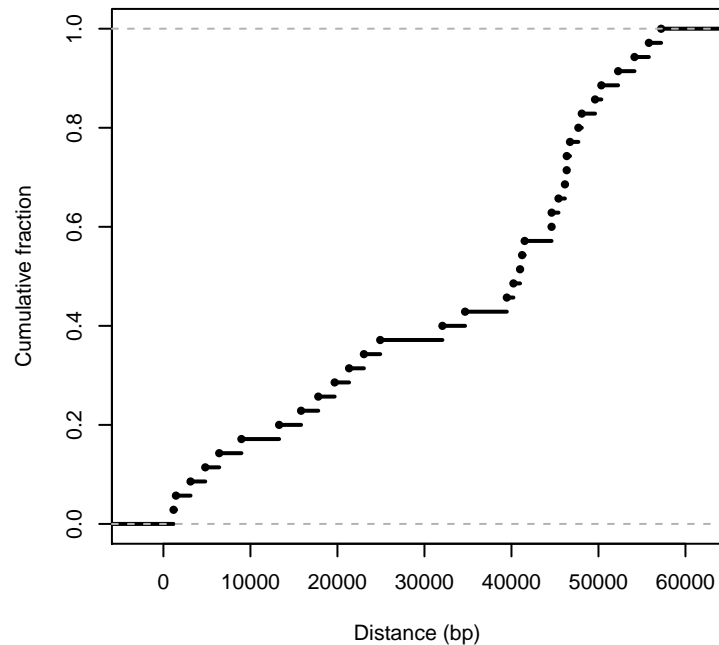
Query population : 17
Reference population : 2
Relative Ks p-value : 2.10942e-15
Relative ecdf deviation area : 0.233074
Relative ecdf area correlation : 0.93258
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.22916e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 120.425



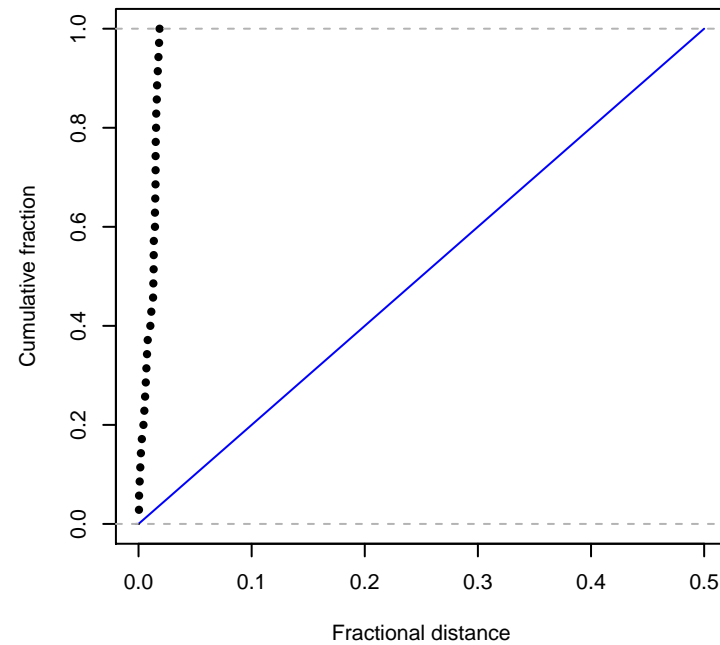
pcontig_193

Query population : 35
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.239137
Relative ecdf area correlation : 0.956585
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 : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00540738
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

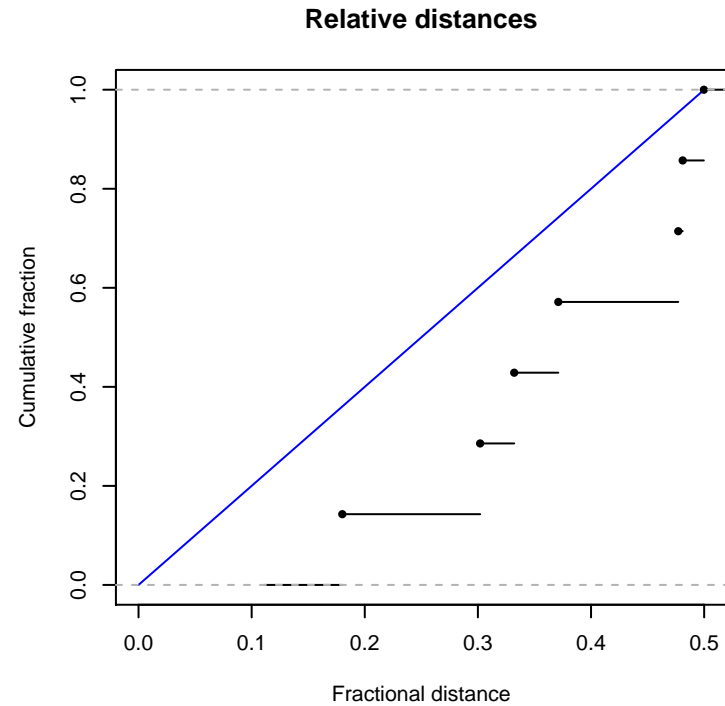
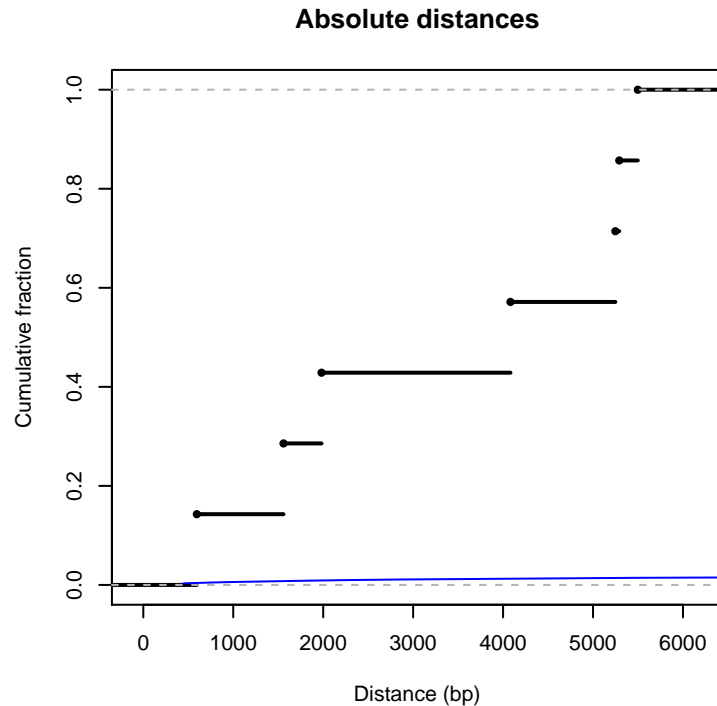


Relative distances



pcontig_195

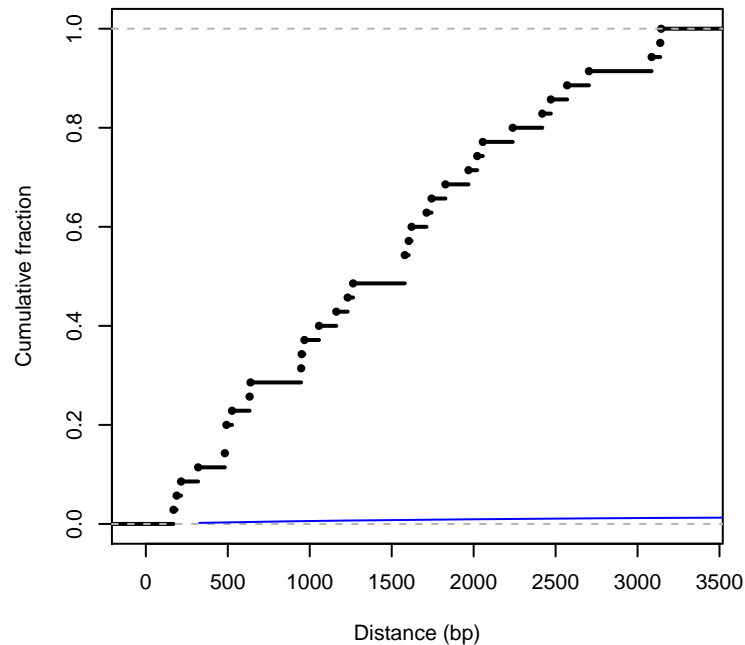
Query population : 7
Reference population : 11
Relative Ks p-value : 0.0701434
Relative ecdf deviation area : 0.127344
Relative ecdf area correlation : -0.510376
Relative ecdf deviation area p-value : 0.02
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000584695
Projection test lower tail : FALSE
Projection test observed to expected ratio : 26.8343



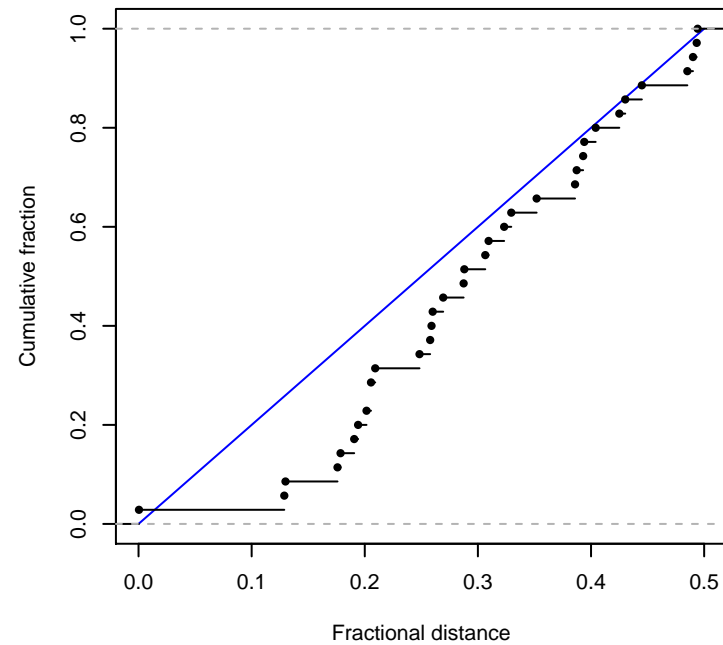
pcontig_200

Query population : 35
Reference population : 10
Relative Ks p-value : 0.0111913
Relative ecdf deviation area : 0.0513596
Relative ecdf area correlation : -0.204366
Relative ecdf deviation area p-value : 0.02
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 : 4.64627e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 27.3907

Absolute distances

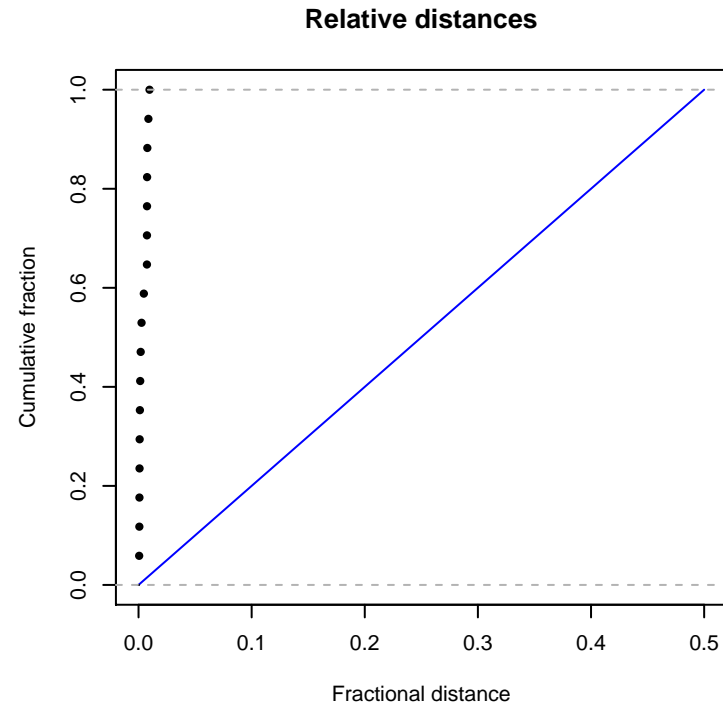
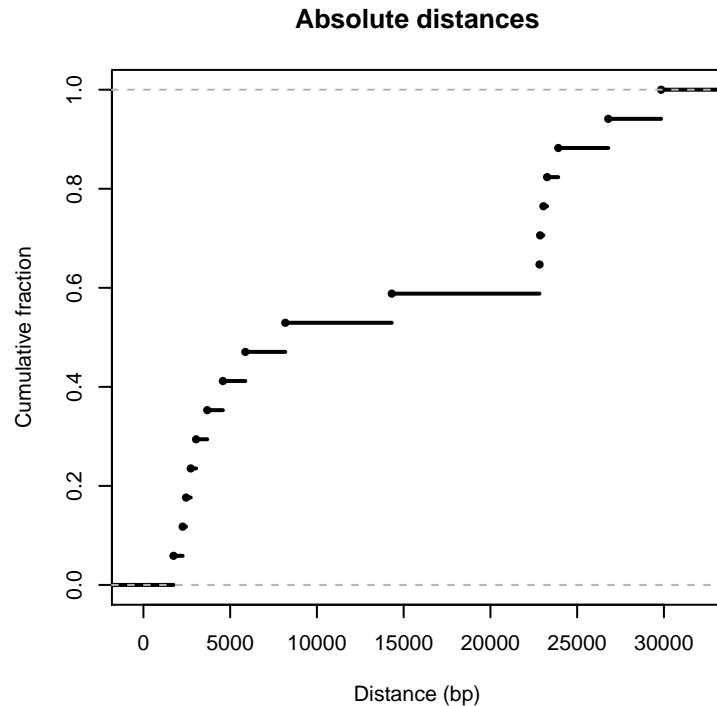


Relative distances



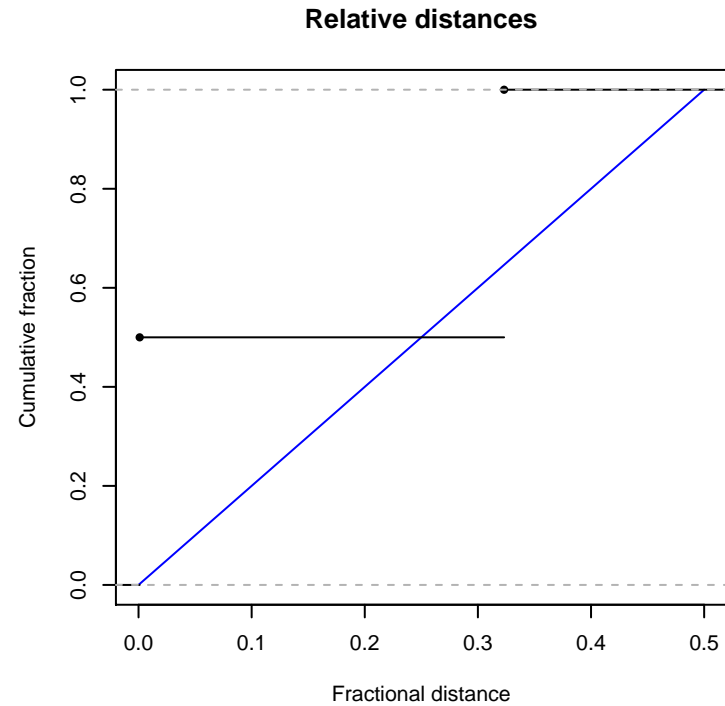
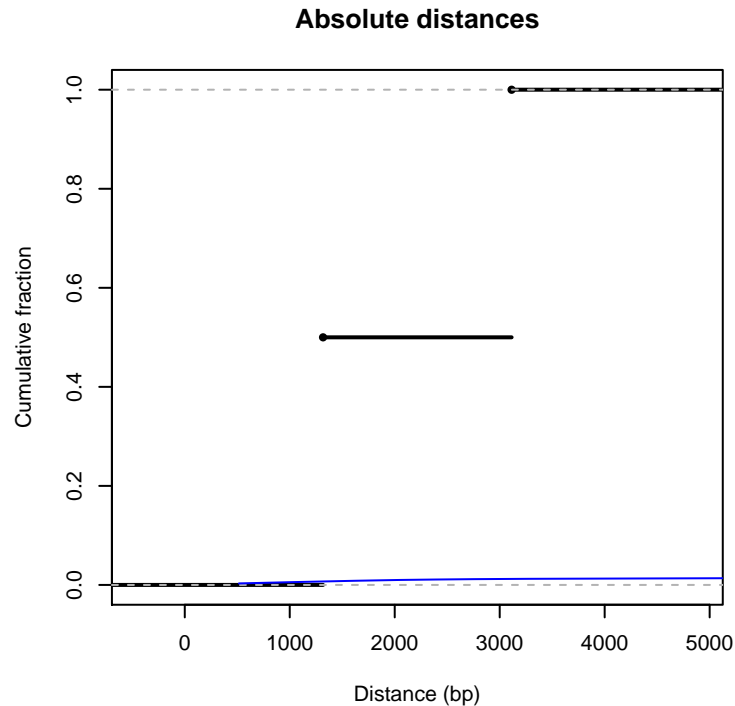
pcontig_202

Query population : 17
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.245911
Relative ecdf area correlation : 0.983046
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 : 0.00699182
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



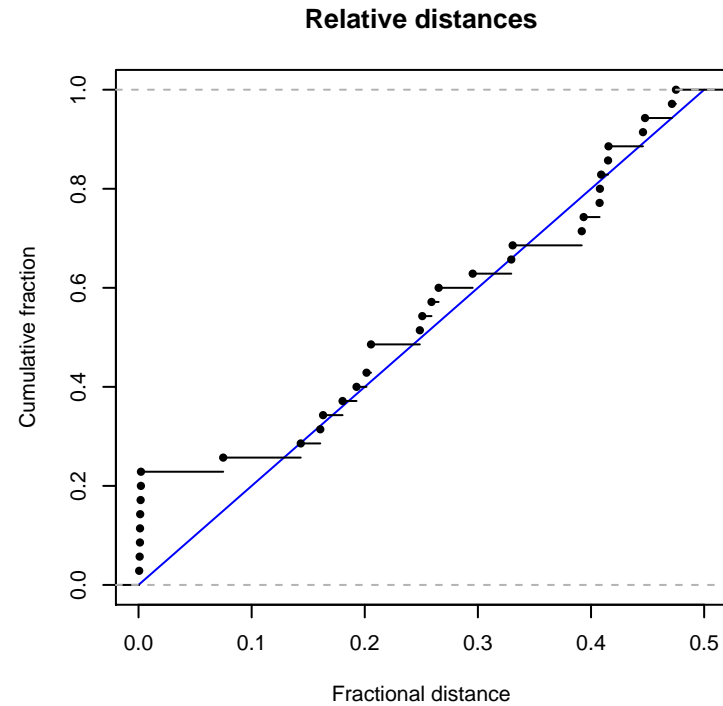
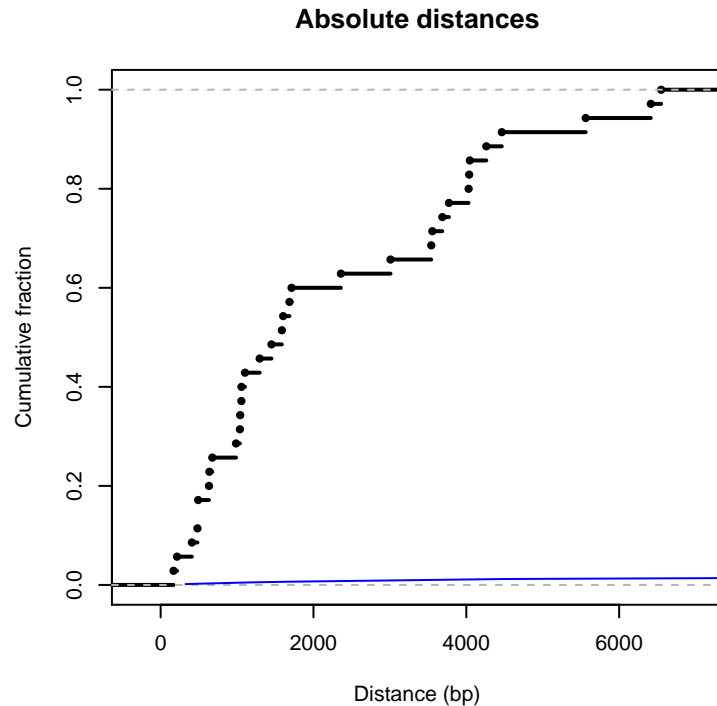
pcontig_203

Query population : 2
Reference population : 9
Relative Ks p-value : 0.508156
Relative ecdf deviation area : 0.0982074
Relative ecdf area correlation : 0.351644
Relative ecdf deviation area p-value : 0.58
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 : 0.00922145
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_204

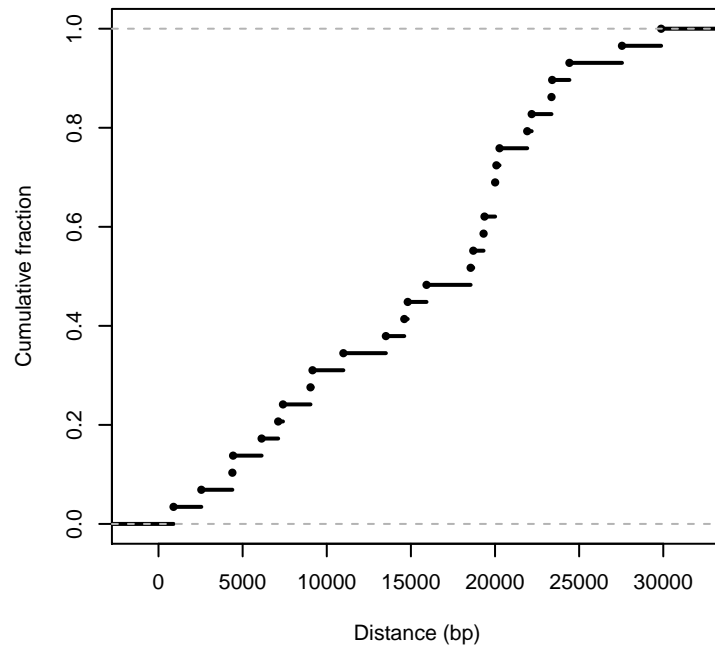
Query population : 35
Reference population : 8
Relative Ks p-value : 0.0499621
Relative ecdf deviation area : 0.0234597
Relative ecdf area correlation : 0.0629401
Relative ecdf deviation area p-value : 0.49
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.002196
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.5551



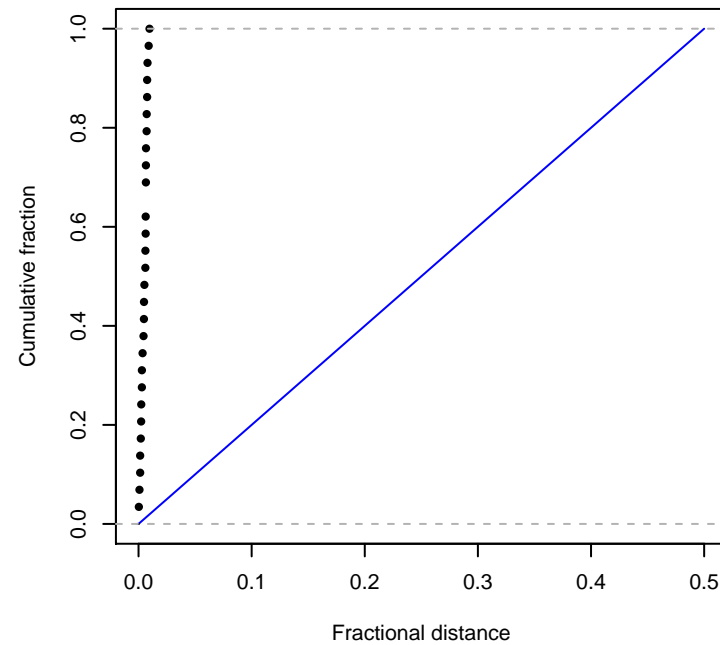
pcontig_205

Query population : 29
Reference population : 1
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.244752
Relative ecdf area correlation : 0.979804
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 : 0.00183866
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

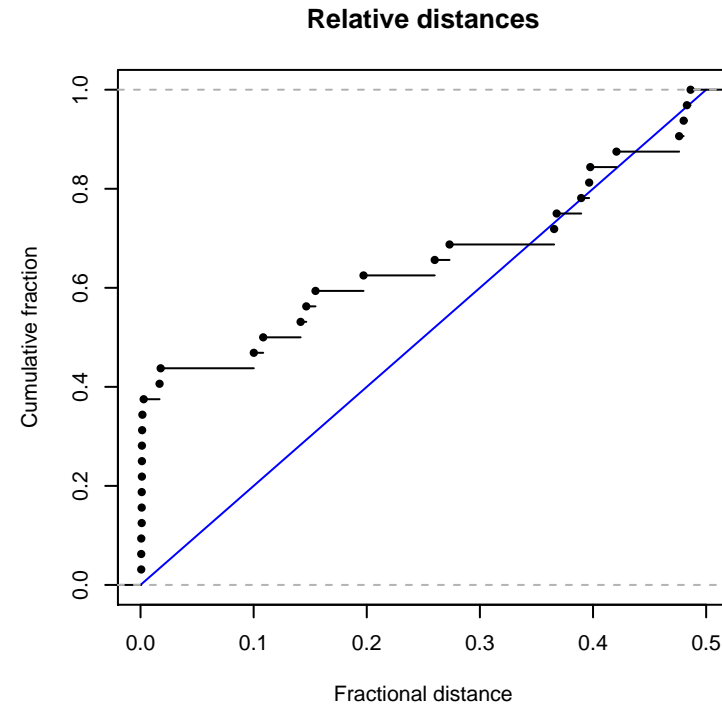
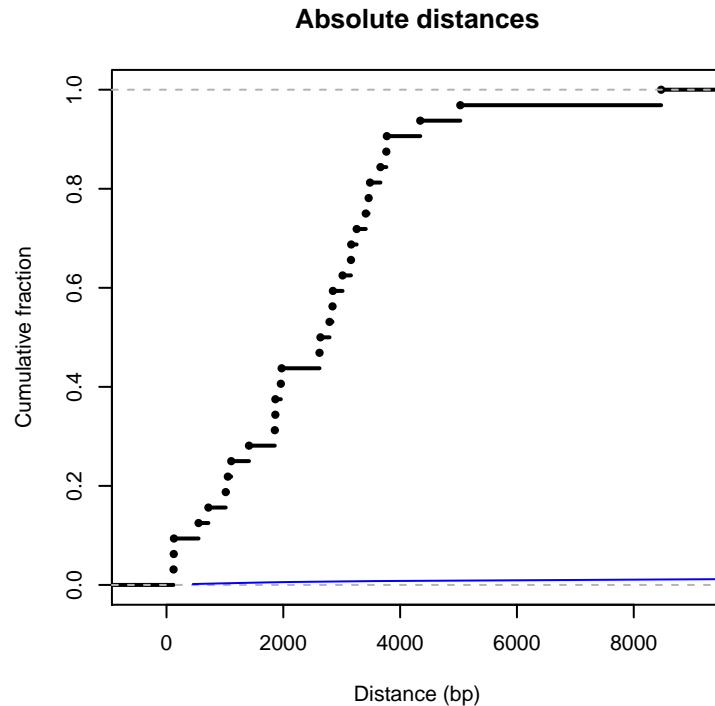


Relative distances



pcontig_207

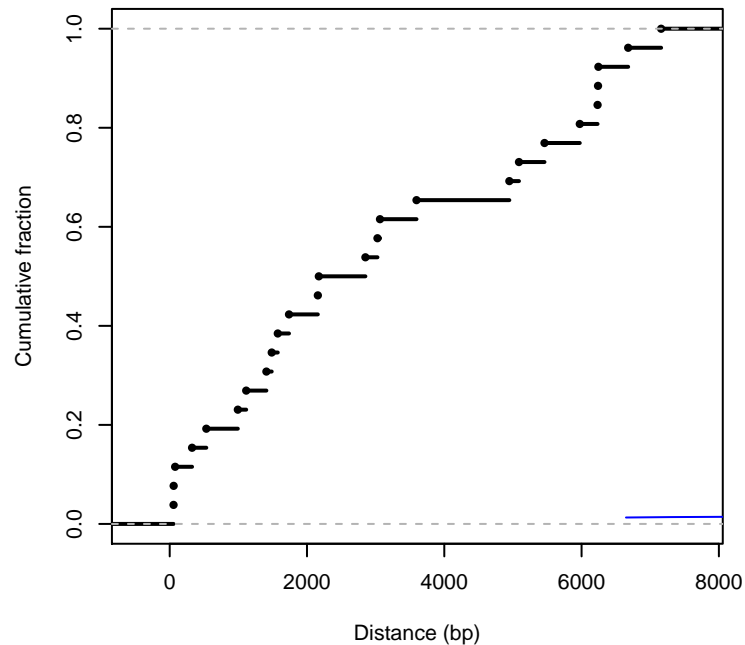
Query population : 32
Reference population : 6
Relative Ks p-value : 3.52149e-05
Relative ecdf deviation area : 0.0763031
Relative ecdf area correlation : 0.288238
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.1254e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 59.1028



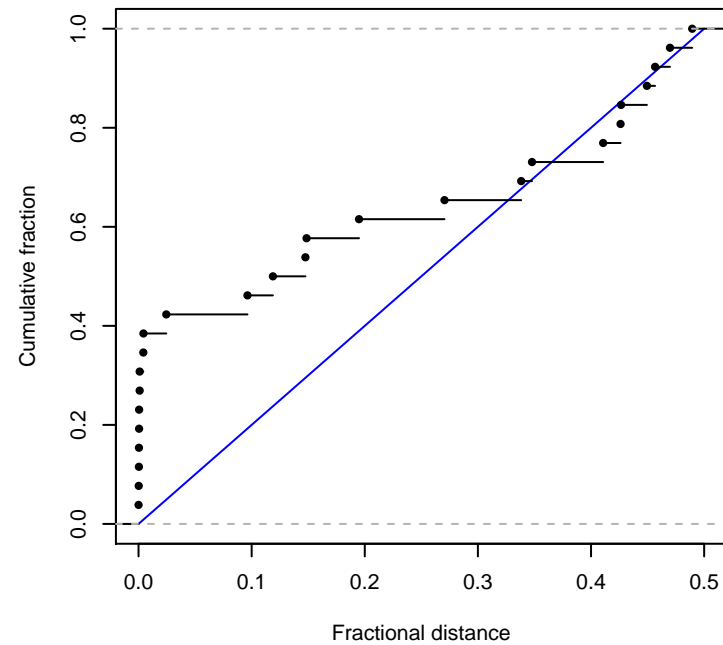
pcontig_214

Query population : 26
Reference population : 3
Relative Ks p-value : 0.000825342
Relative ecdf deviation area : 0.0727531
Relative ecdf area correlation : 0.25719
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 : 4.95181e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 151.587

Absolute distances

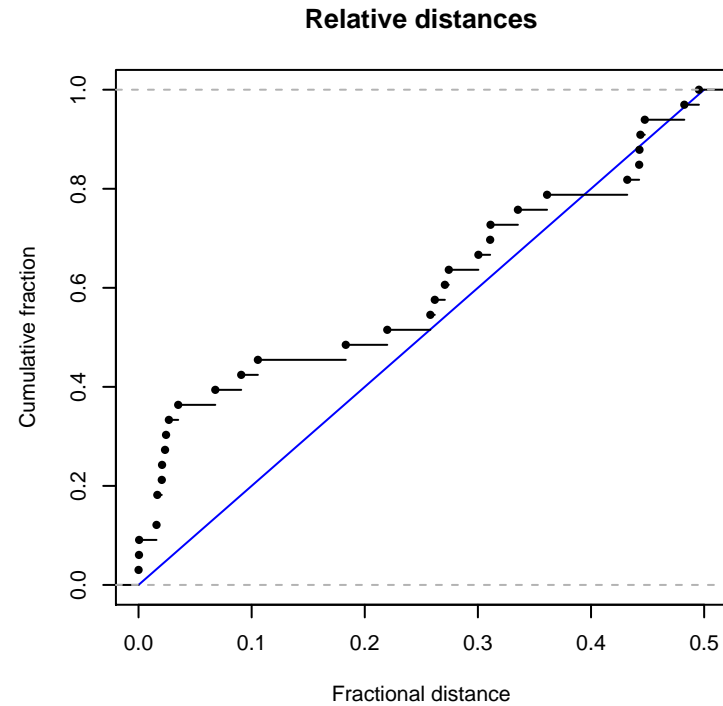
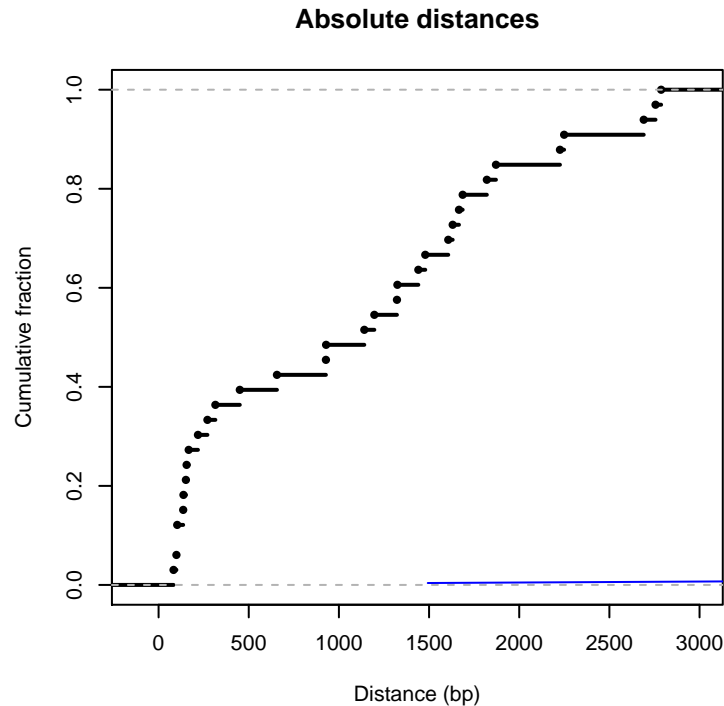


Relative distances



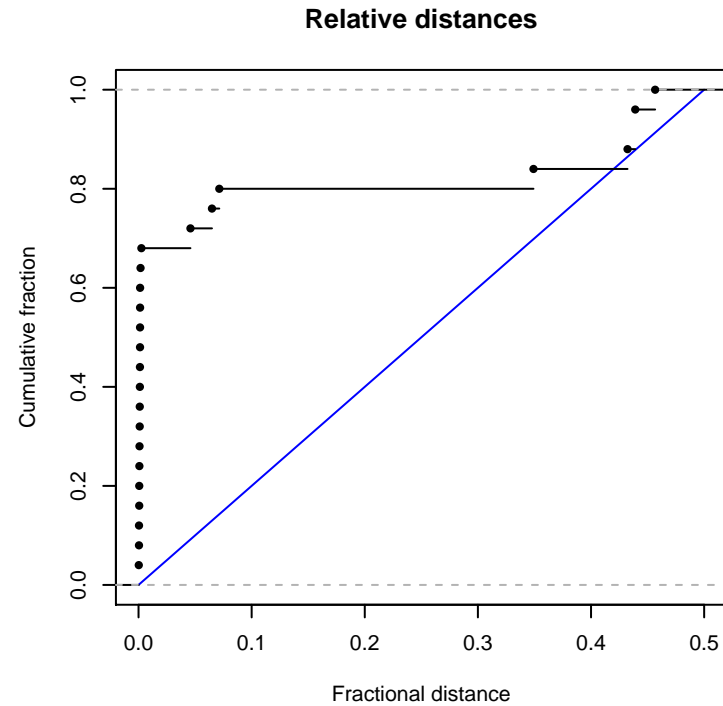
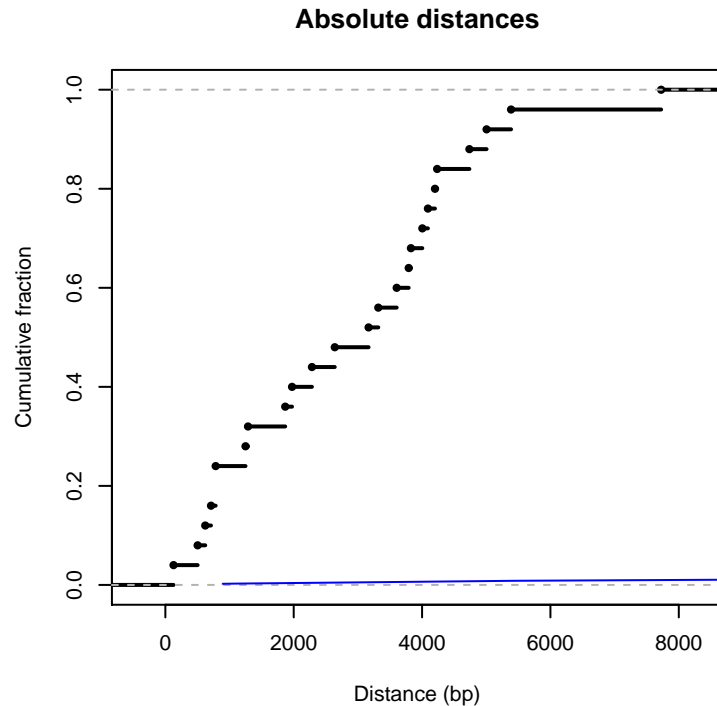
pcontig_218

Query population : 33
Reference population : 4
Relative Ks p-value : 0.00516943
Relative ecdf deviation area : 0.0507597
Relative ecdf area correlation : 0.18318
Relative ecdf deviation area p-value : 0.02
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 : 272.672



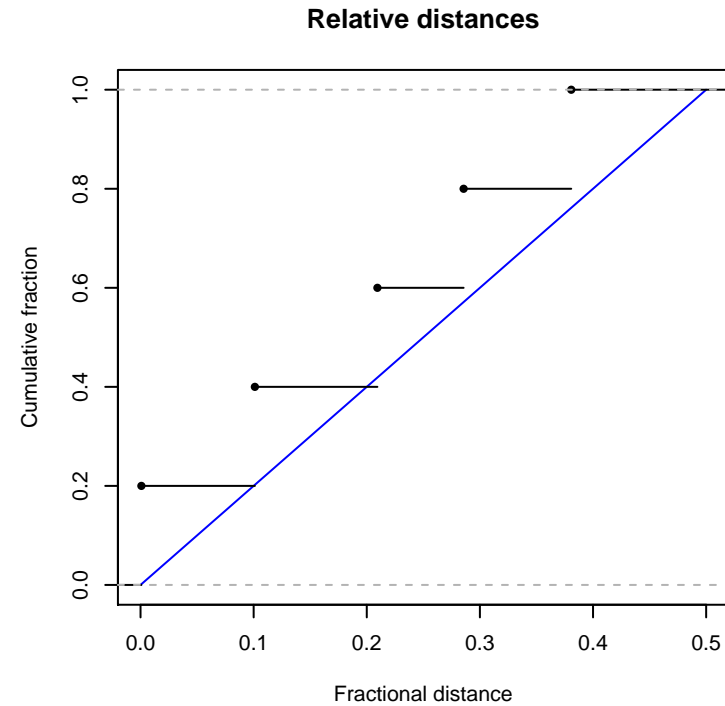
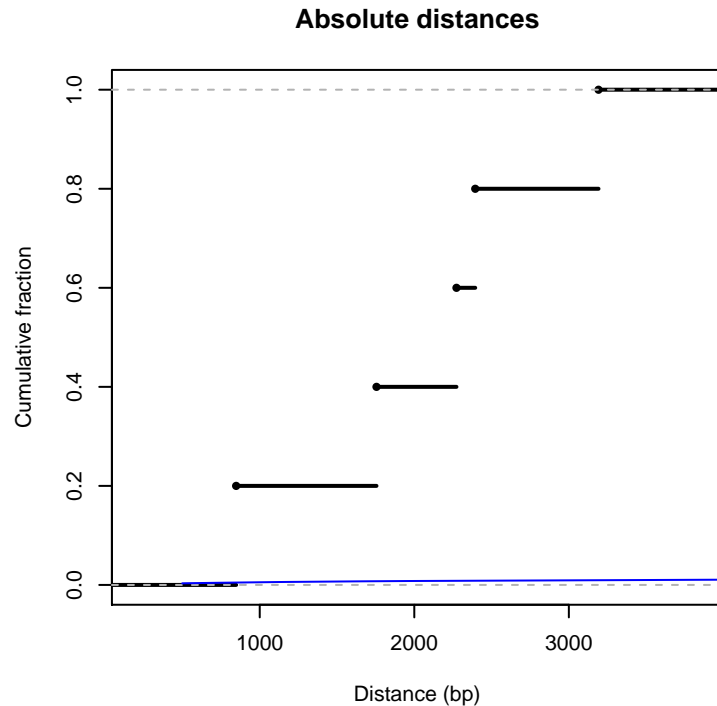
pcontig_221

Query population : 25
Reference population : 4
Relative Ks p-value : $8.6291\text{e-}12$
Relative ecdf deviation area : 0.157227
Relative ecdf area correlation : 0.629337
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 : $4.9627\text{e-}14$
Projection test lower tail : FALSE
Projection test observed to expected ratio : 123.202



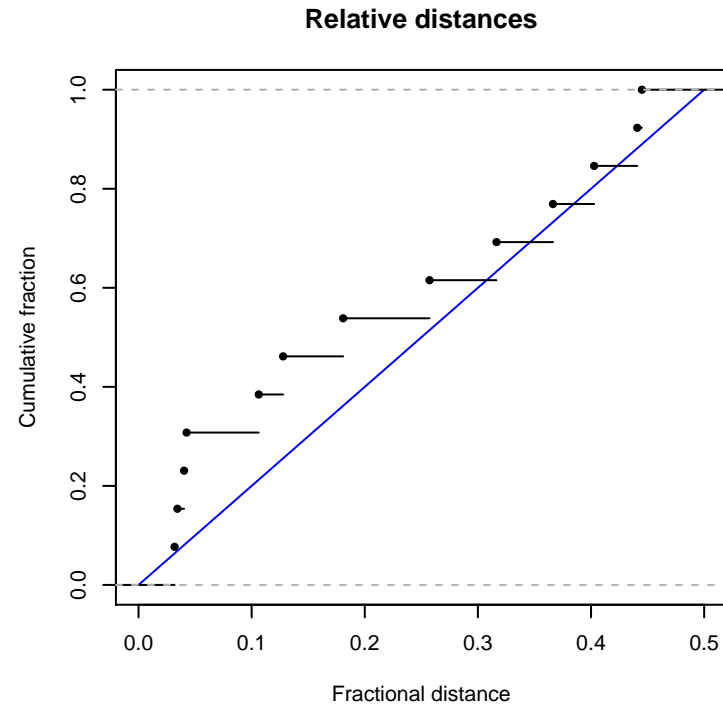
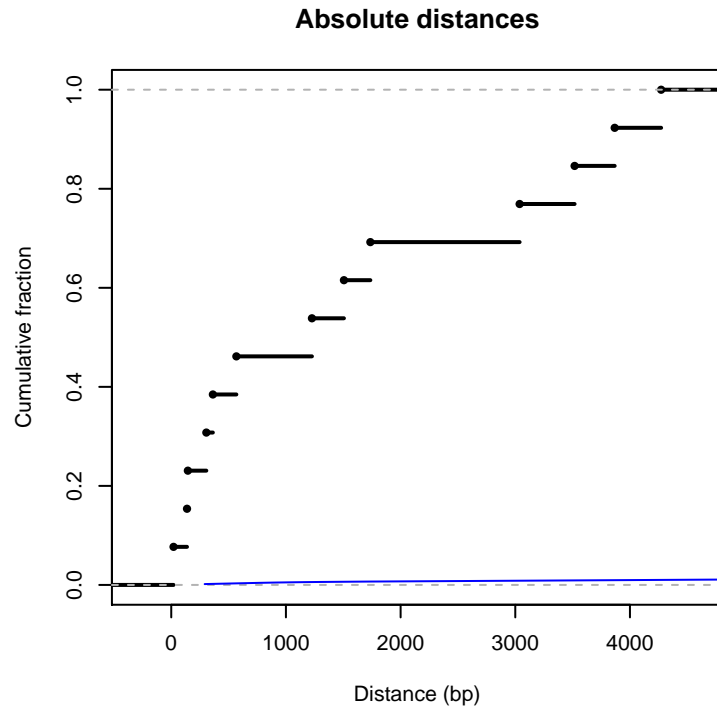
pcontig_223

Query population : 5
Reference population : 10
Relative Ks p-value : 0.878347
Relative ecdf deviation area : 0.0548357
Relative ecdf area correlation : 0.217916
Relative ecdf deviation area p-value : 0.71
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 : 0.000124956
Projection test lower tail : FALSE
Projection test observed to expected ratio : 56.3779



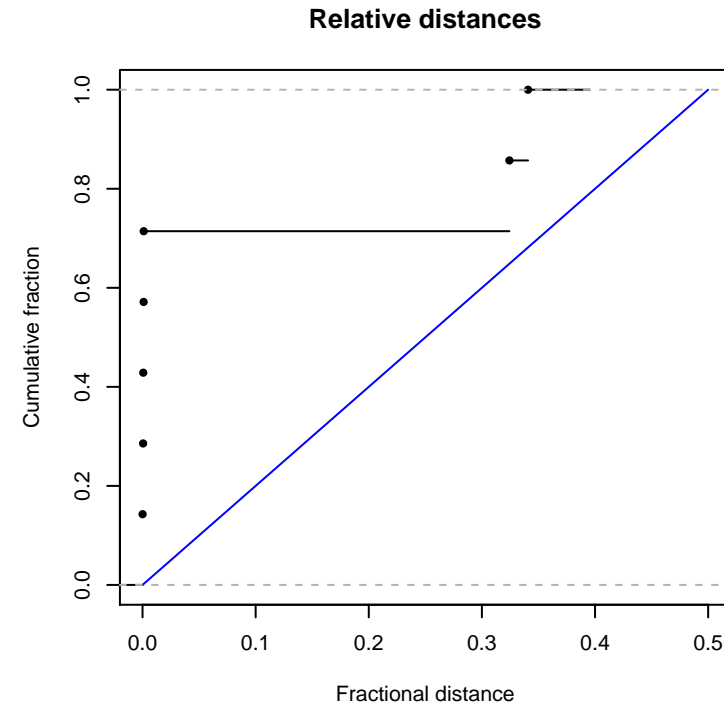
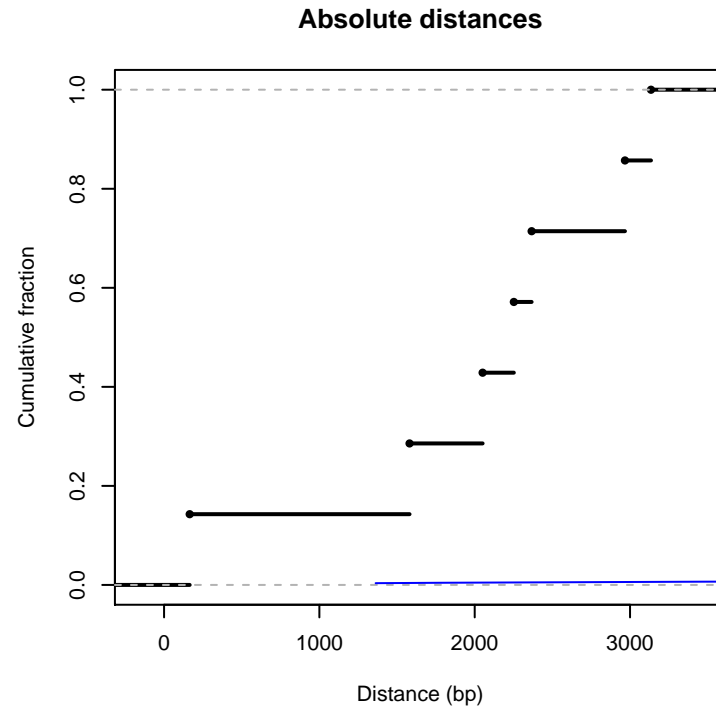
pcontig_225

Query population : 13
Reference population : 9
Relative Ks p-value : 0.47206
Relative ecdf deviation area : 0.0393181
Relative ecdf area correlation : 0.14078
Relative ecdf deviation area p-value : 0.48
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 : 7.43849e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 139.14



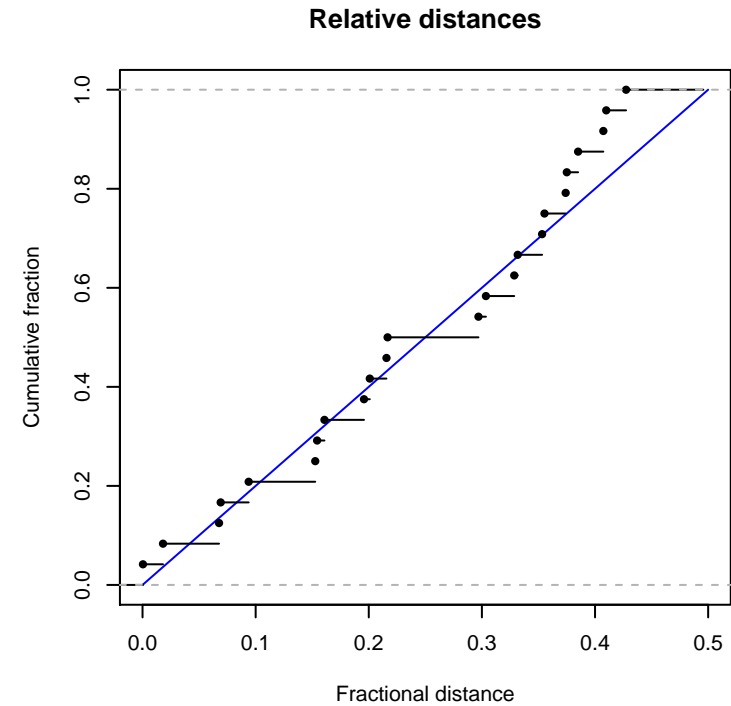
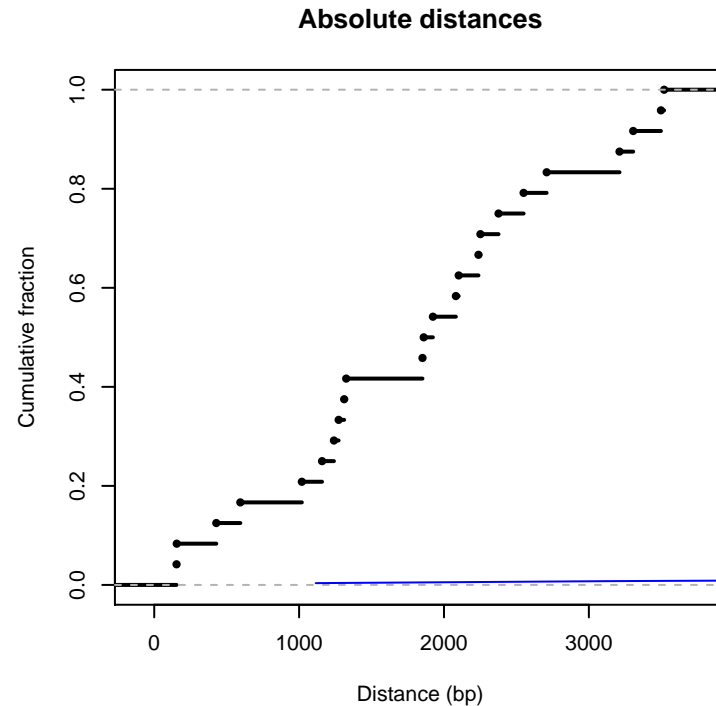
pcontig_233

Query population : 7
Reference population : 4
Relative Ks p-value : 0.000419115
Relative ecdf deviation area : 0.153765
Relative ecdf area correlation : 0.61809
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 : 0.00013222
Projection test lower tail : FALSE
Projection test observed to expected ratio : 56.6941



pcontig_235

Query population : 24
Reference population : 5
Relative Ks p-value : 0.640843
Relative ecdf deviation area : 0.0221
Relative ecdf area correlation : 0.0176891
Relative ecdf deviation area p-value : 0.67
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 : 0.000506811
Projection test lower tail : FALSE
Projection test observed to expected ratio : 30.4414



All Chromosomes

Query population : 49155
Reference population : 12905
Relative Ks p-value : 0
Relative ecdf deviation area : 0.0185706
Relative ecdf area correlation : -0.0690082
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 : 2.28637

