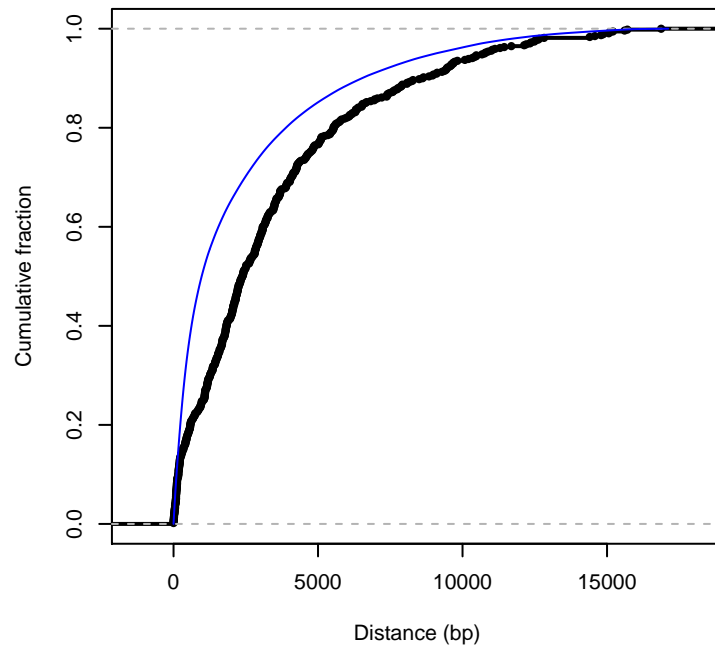


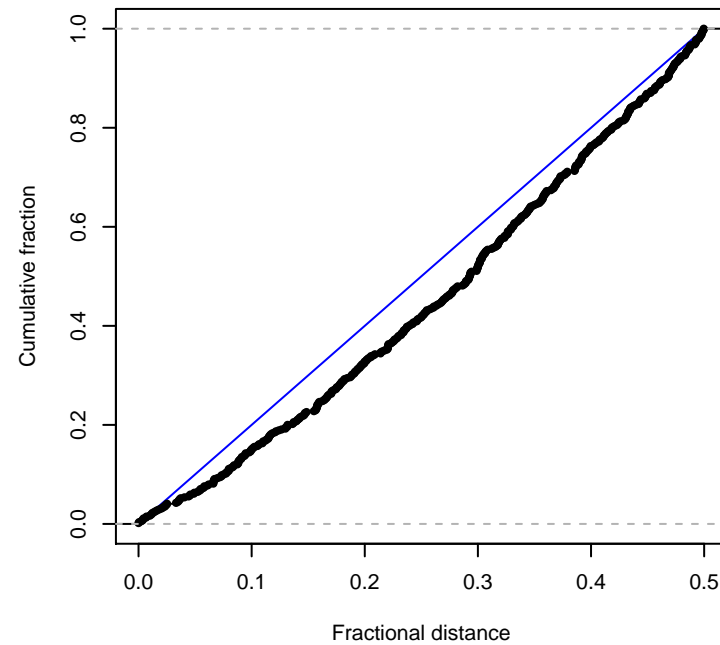
pcontig_000

Query population : 540
Reference population : 1836
Relative Ks p-value : 0.000152346
Relative ecdf deviation area : 0.0271899
Relative ecdf area correlation : -0.109155
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 : 1.04711e-15
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.599182

Absolute distances

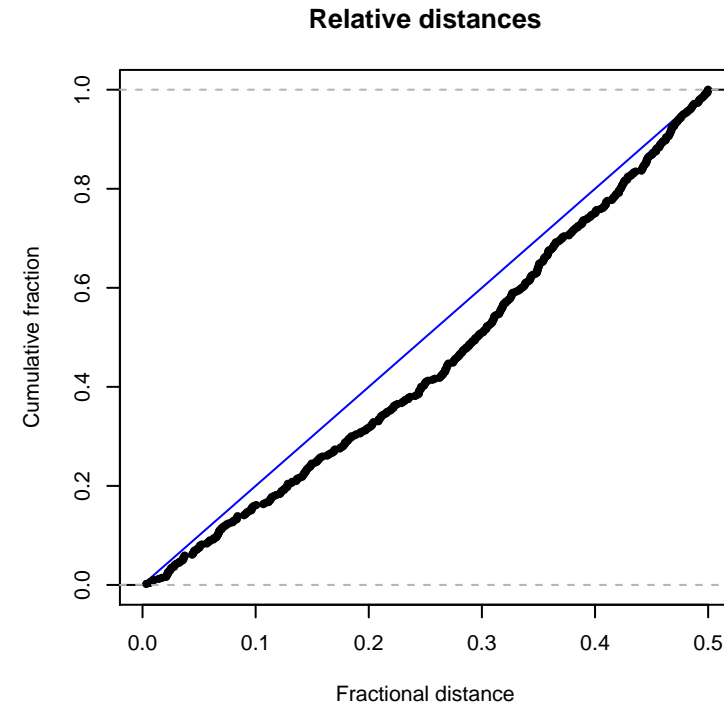
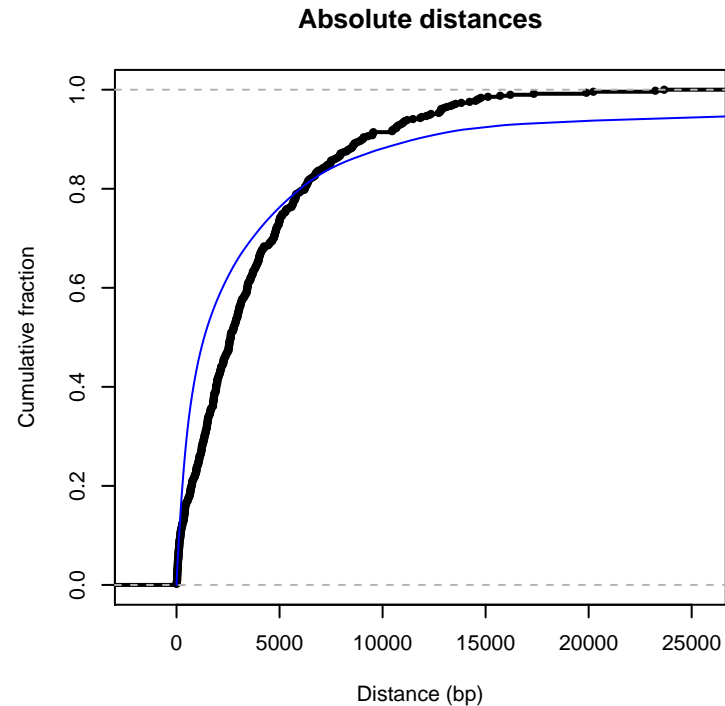


Relative distances



pcontig_001

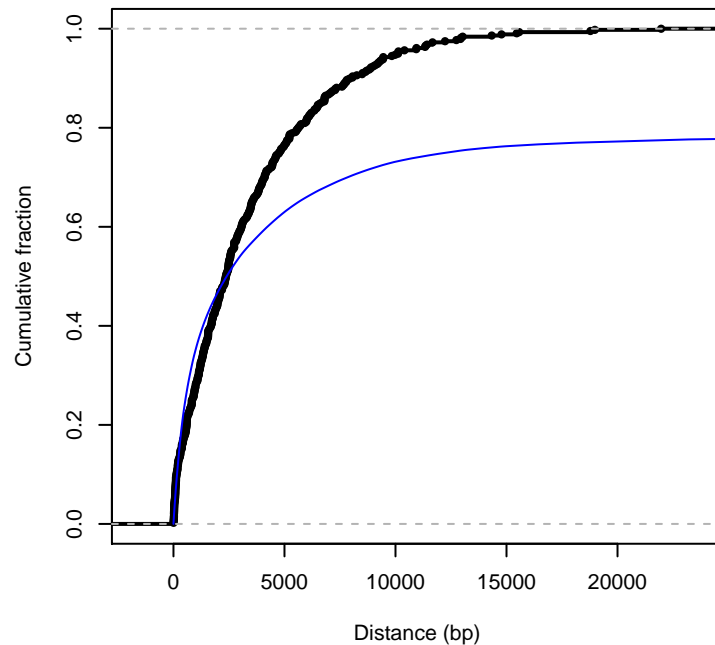
Query population : 490
Reference population : 1560
Relative Ks p-value : 1.80725e-05
Relative ecdf deviation area : 0.02729
Relative ecdf area correlation : -0.109098
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 5.86412e-12
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.593891



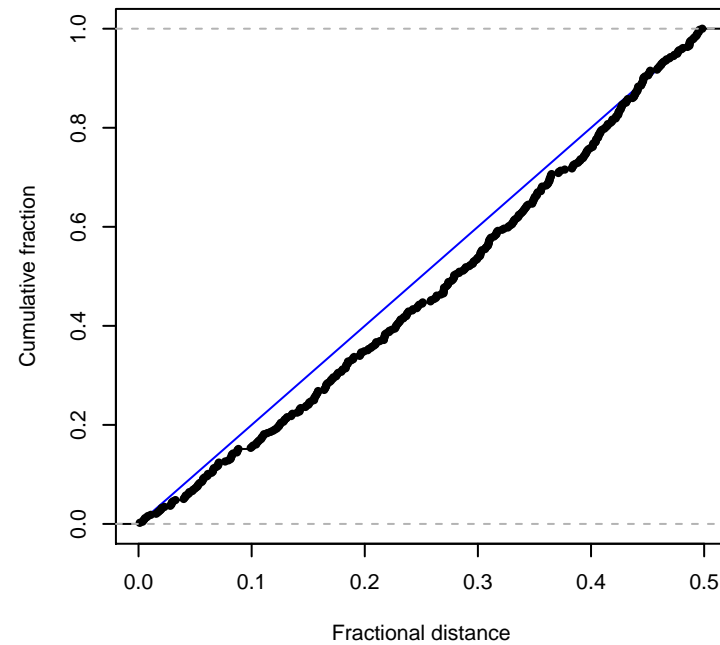
pcontig_002

Query population : 436
Reference population : 1204
Relative Ks p-value : 0.0133603
Relative ecdf deviation area : 0.0186424
Relative ecdf area correlation : -0.0750425
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 : 0.176055
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.925327

Absolute distances



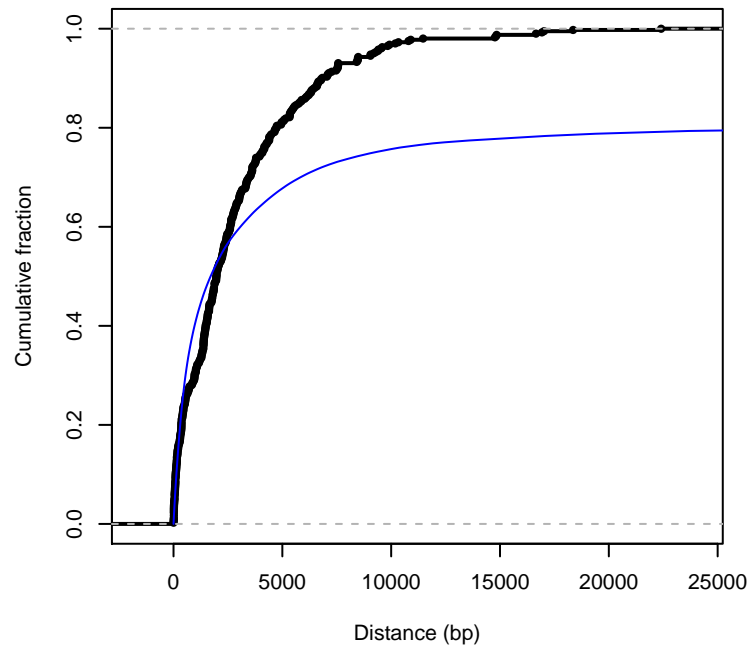
Relative distances



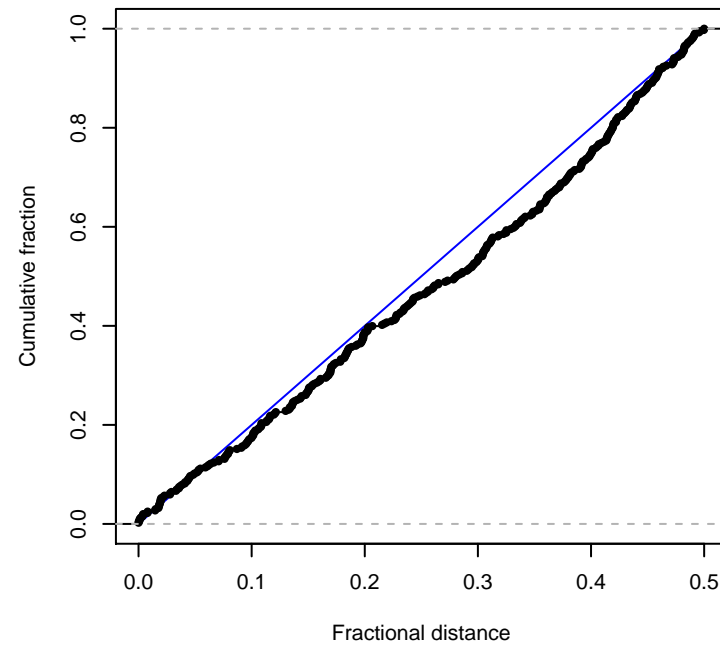
pcontig_003

Query population : 403
Reference population : 1462
Relative Ks p-value : 0.0193069
Relative ecdf deviation area : 0.0166616
Relative ecdf area correlation : -0.0641171
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 : TRUE
Projection test p-value : 0.0690012
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.894811

Absolute distances

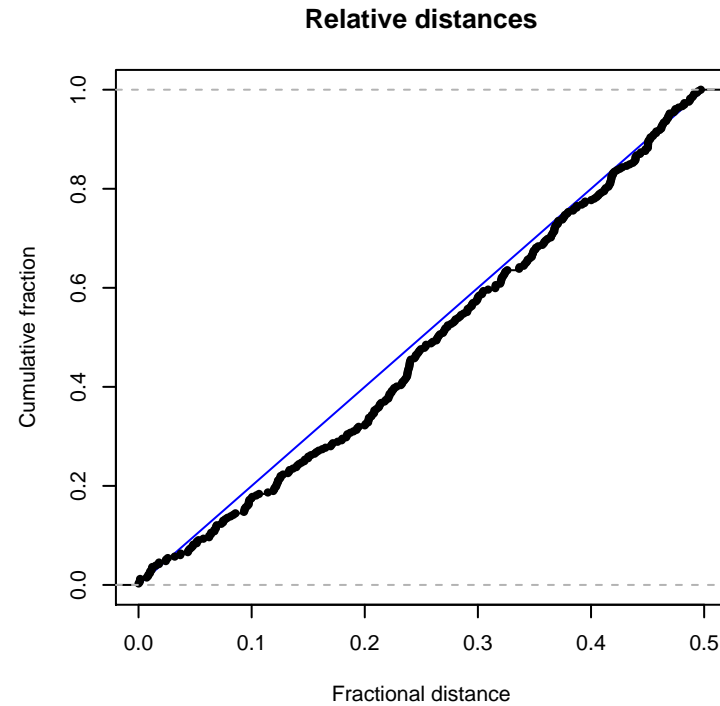
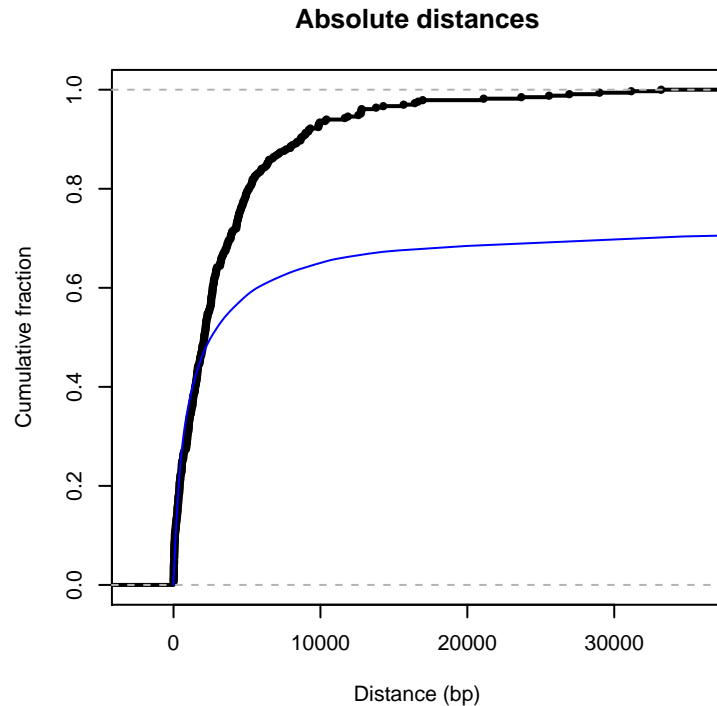


Relative distances



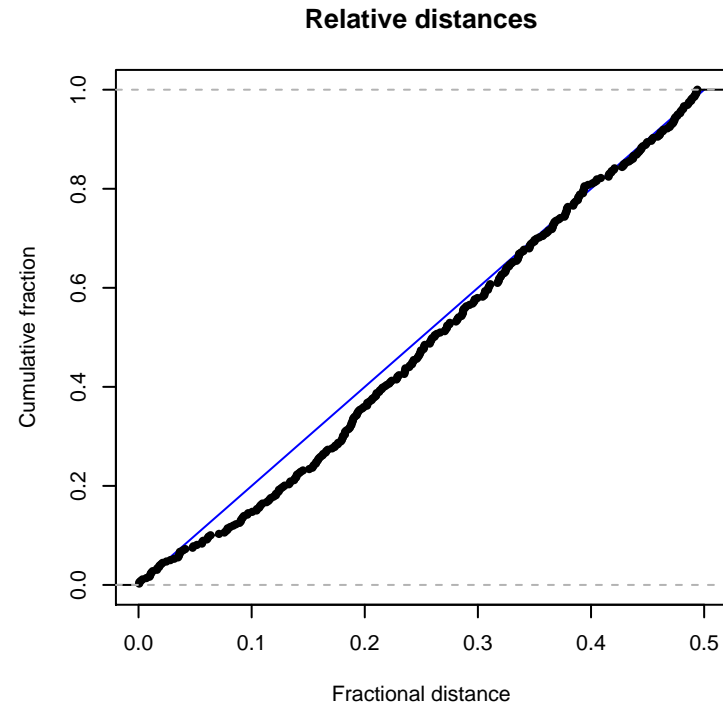
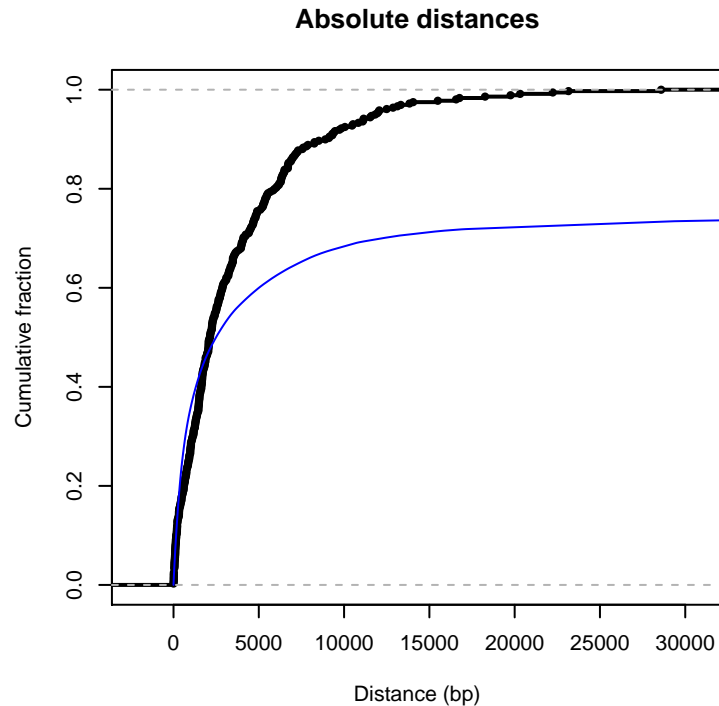
pcontig_004

Query population : 332
Reference population : 1370
Relative Ks p-value : 0.0264208
Relative ecdf deviation area : 0.0144697
Relative ecdf area correlation : -0.0554926
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 : TRUE
Projection test p-value : 0.212558
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.928189



pcontig_005

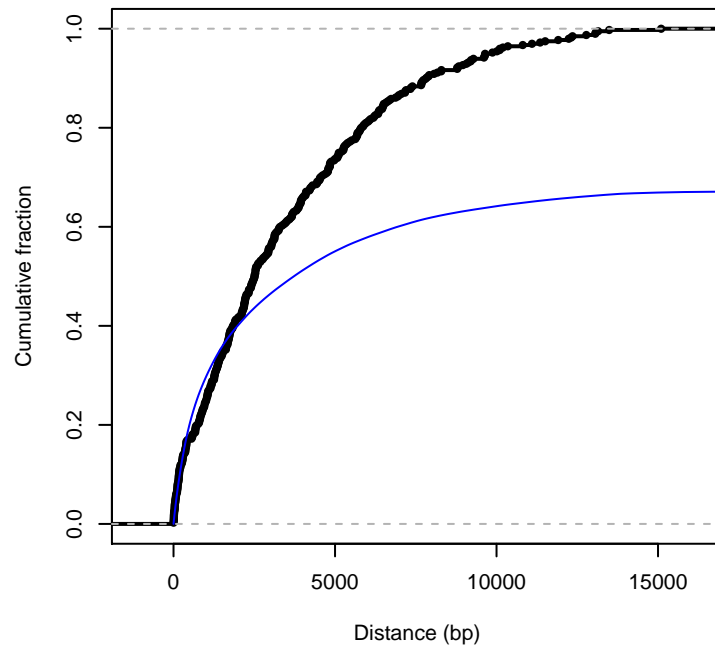
Query population : 359
Reference population : 1300
Relative Ks p-value : 0.0413739
Relative ecdf deviation area : 0.0134745
Relative ecdf area correlation : -0.051976
Relative ecdf deviation area p-value : 0.08
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0385526
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.855242



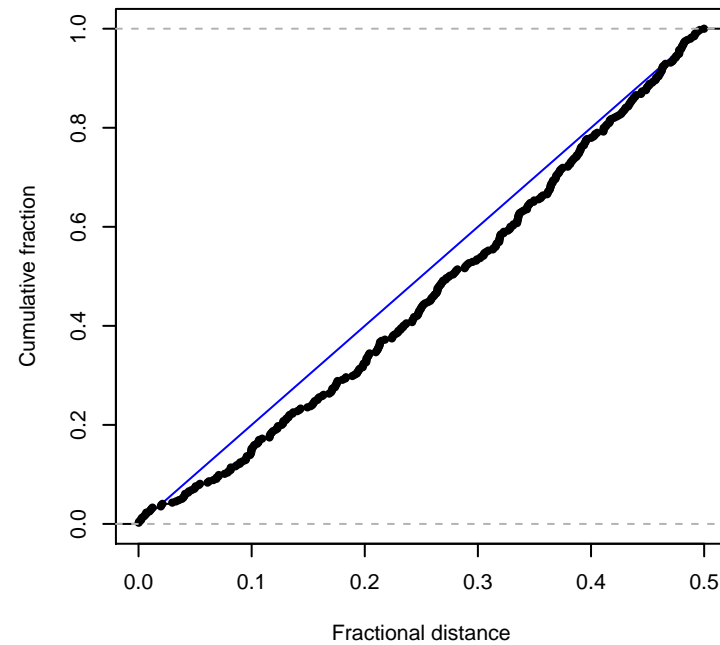
pcontig_006

Query population : 395
Reference population : 1069
Relative Ks p-value : 0.0068866
Relative ecdf deviation area : 0.0218533
Relative ecdf area correlation : -0.0872895
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 : 0.214699
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.924988

Absolute distances

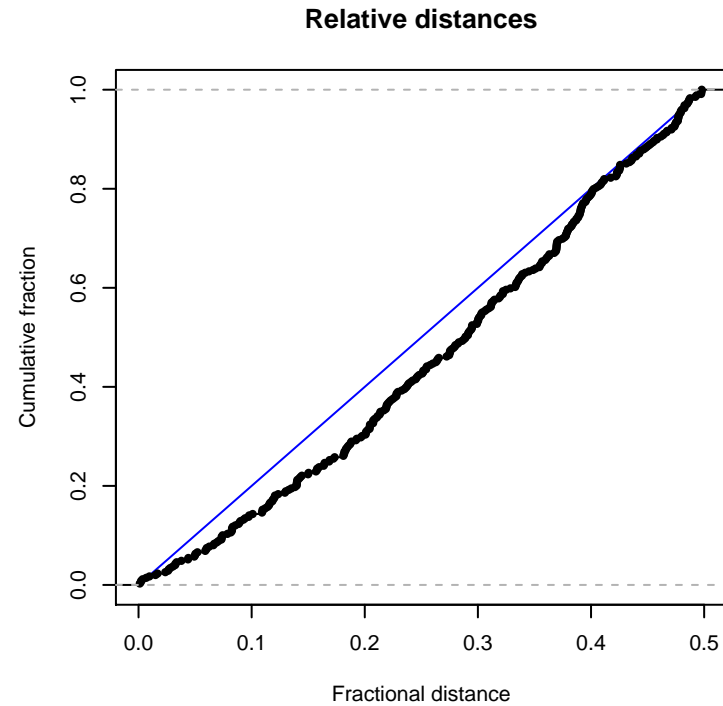
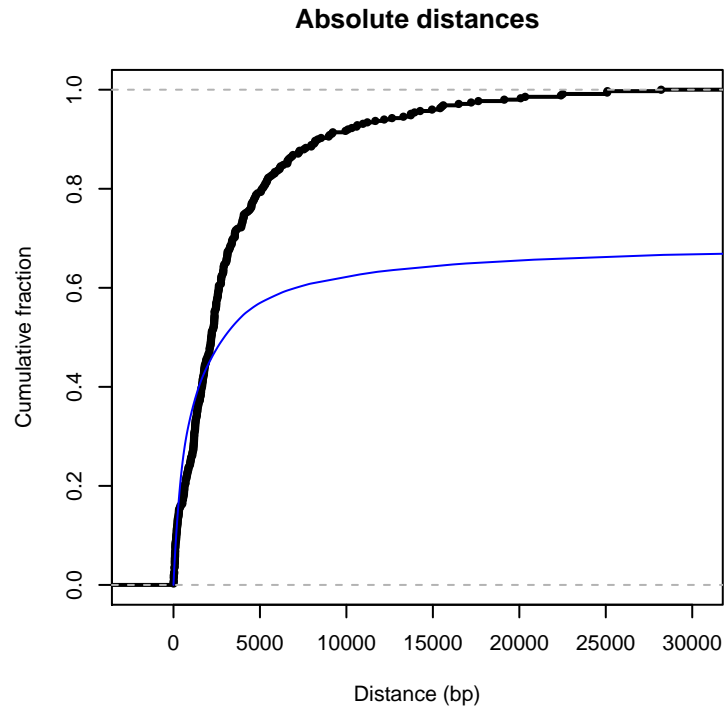


Relative distances



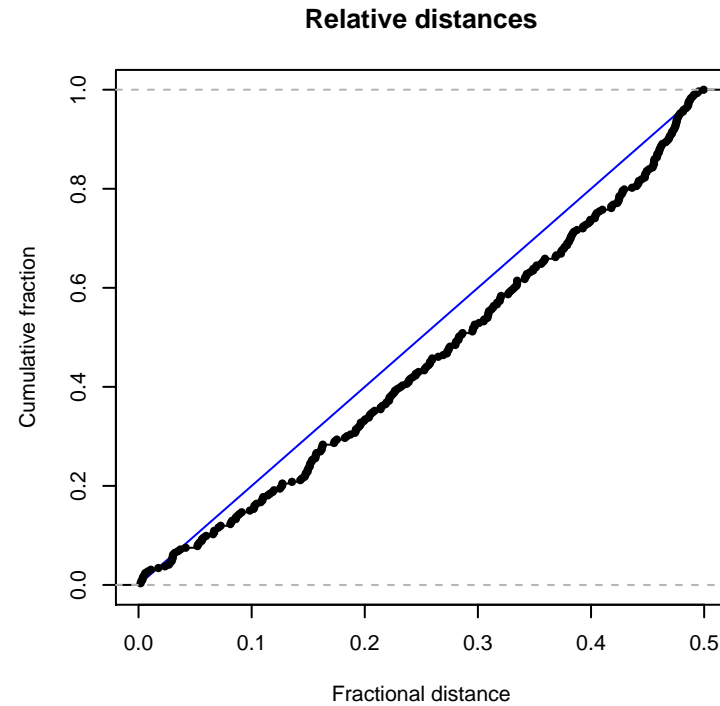
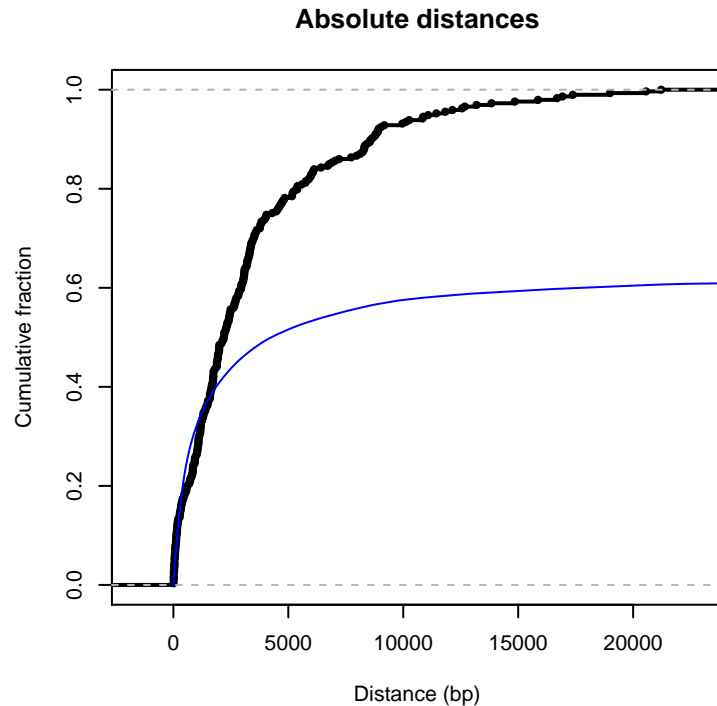
pcontig_007

Query population : 349
Reference population : 1310
Relative Ks p-value : 0.00100625
Relative ecdf deviation area : 0.0257237
Relative ecdf area correlation : -0.103089
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 : 0.295427
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.950971



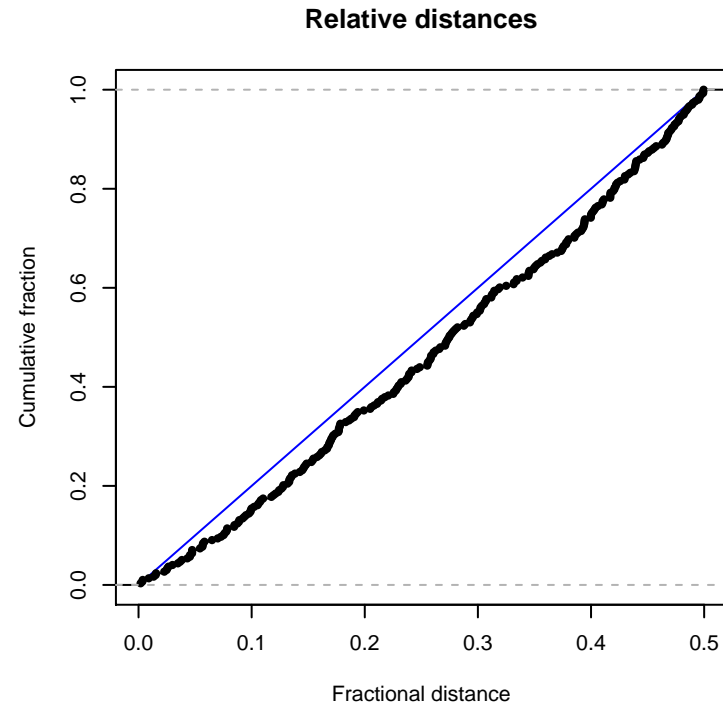
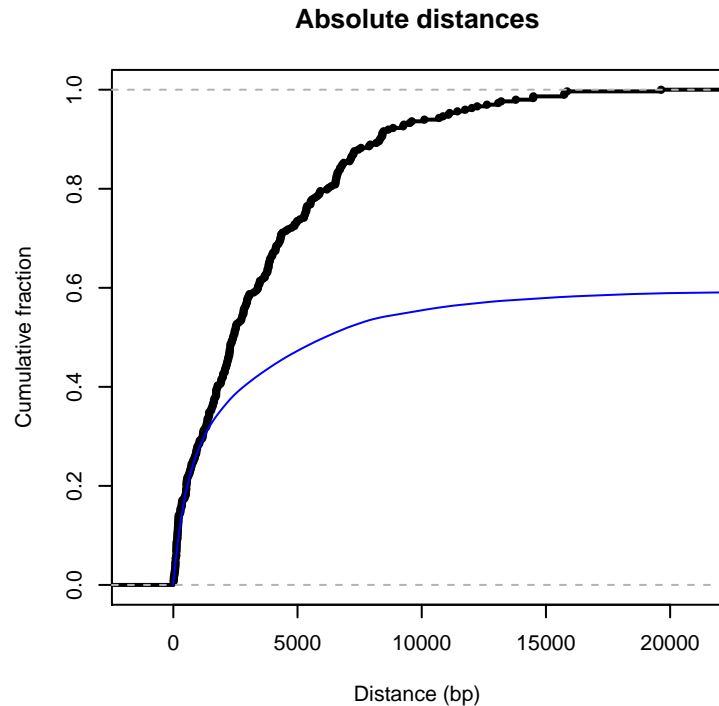
pcontig_008

Query population : 293
Reference population : 1175
Relative Ks p-value : 0.0401795
Relative ecdf deviation area : 0.0264618
Relative ecdf area correlation : -0.104971
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 : 0.421666
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.01185



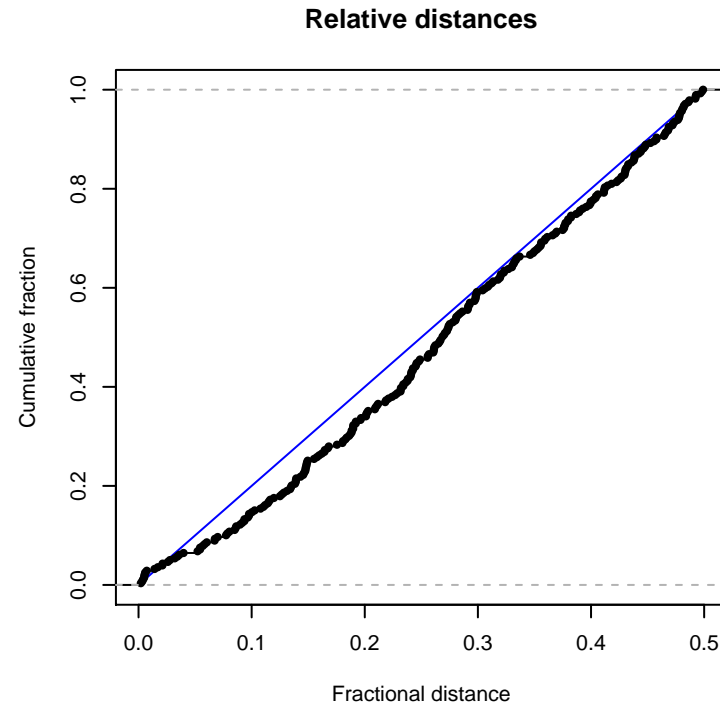
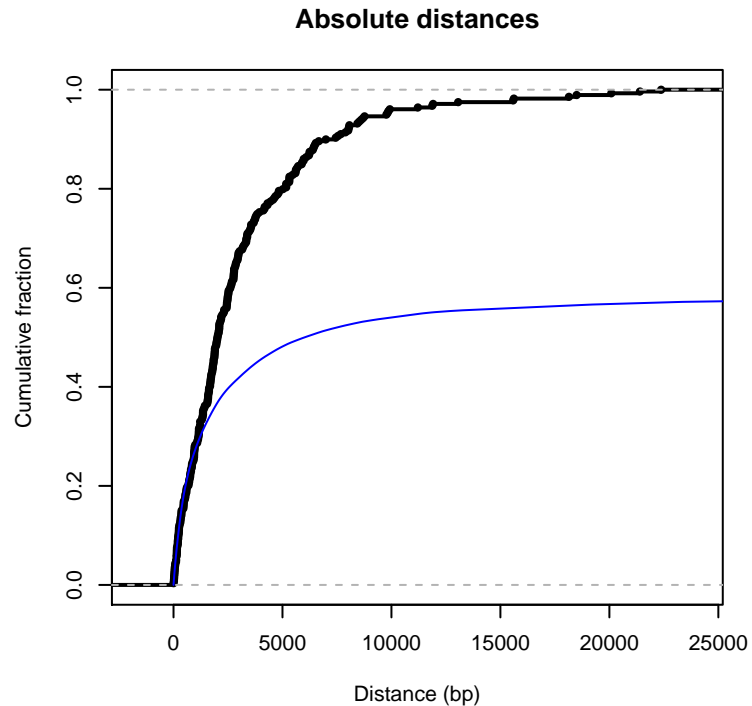
pcontig_009

Query population : 298
Reference population : 954
Relative Ks p-value : 0.0628695
Relative ecdf deviation area : 0.0226857
Relative ecdf area correlation : -0.0911362
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 : 0.25
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0687255
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.14888



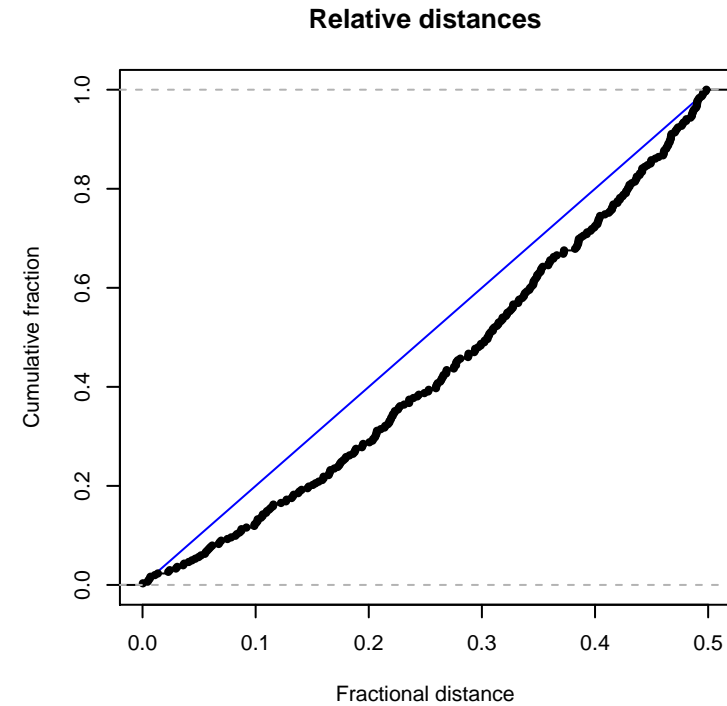
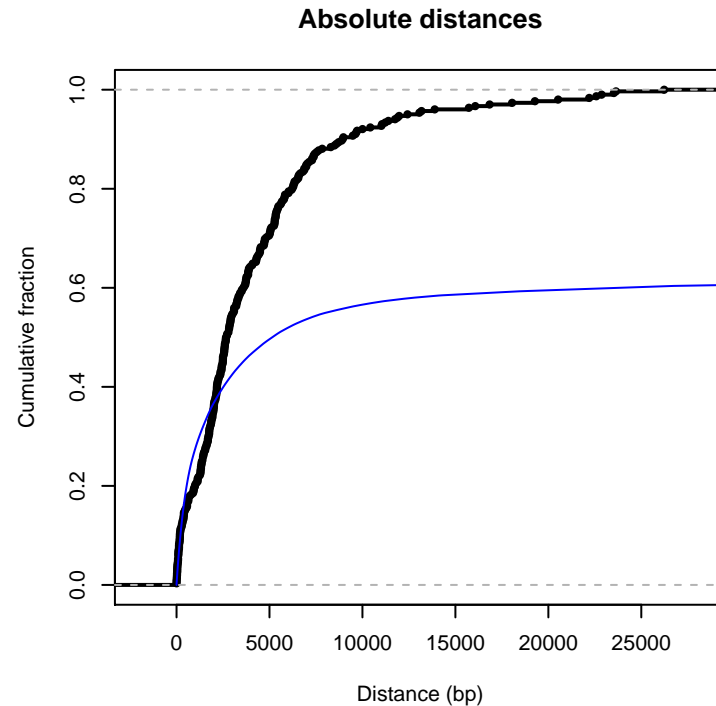
pcontig_010

Query population : 279
Reference population : 972
Relative Ks p-value : 0.0667826
Relative ecdf deviation area : 0.0184013
Relative ecdf area correlation : -0.0721589
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 : 0.08
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0611776
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.16428



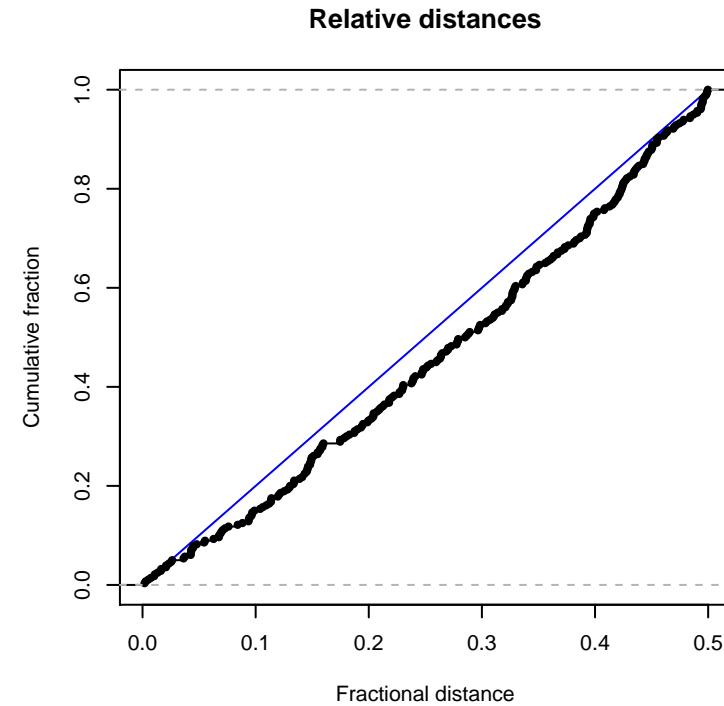
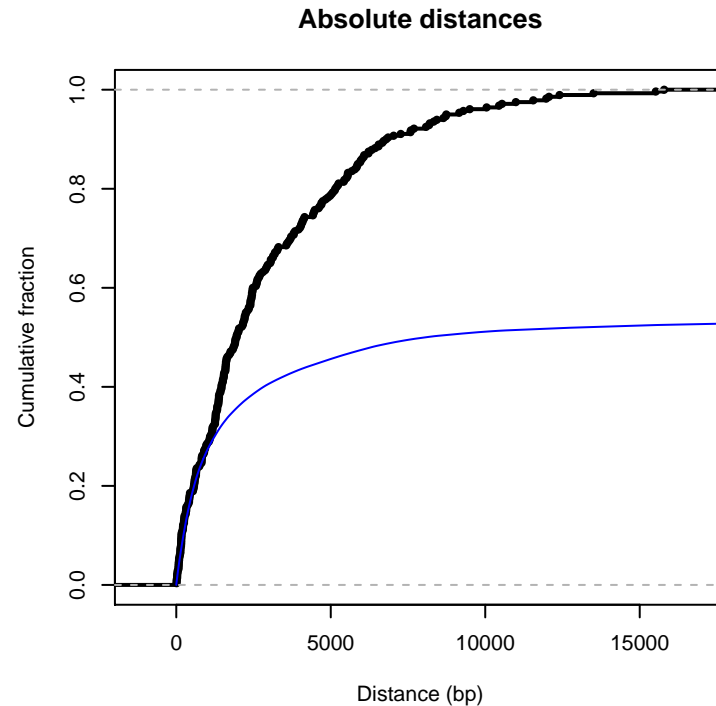
pcontig_011

Query population : 302
Reference population : 1007
Relative Ks p-value : 0.000165406
Relative ecdf deviation area : 0.0375536
Relative ecdf area correlation : -0.149934
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 : 0.0670067
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.829735



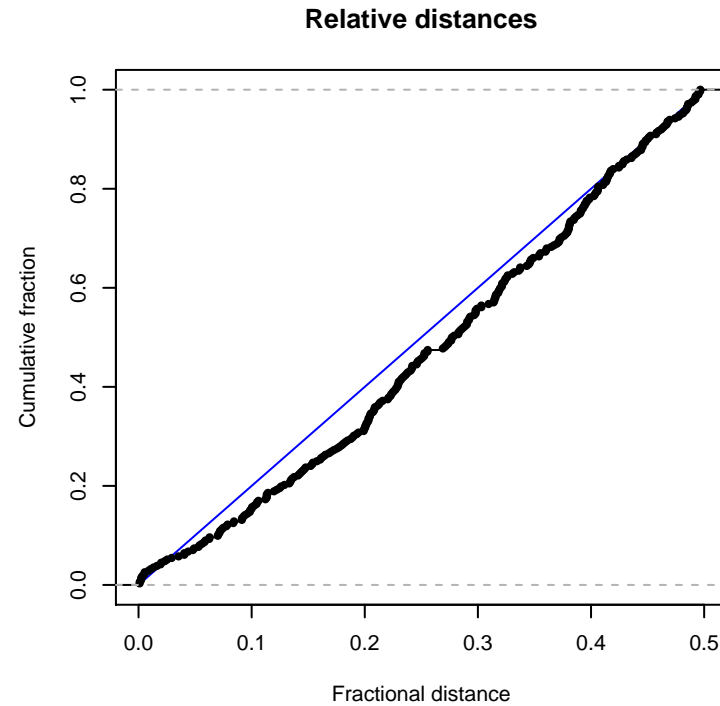
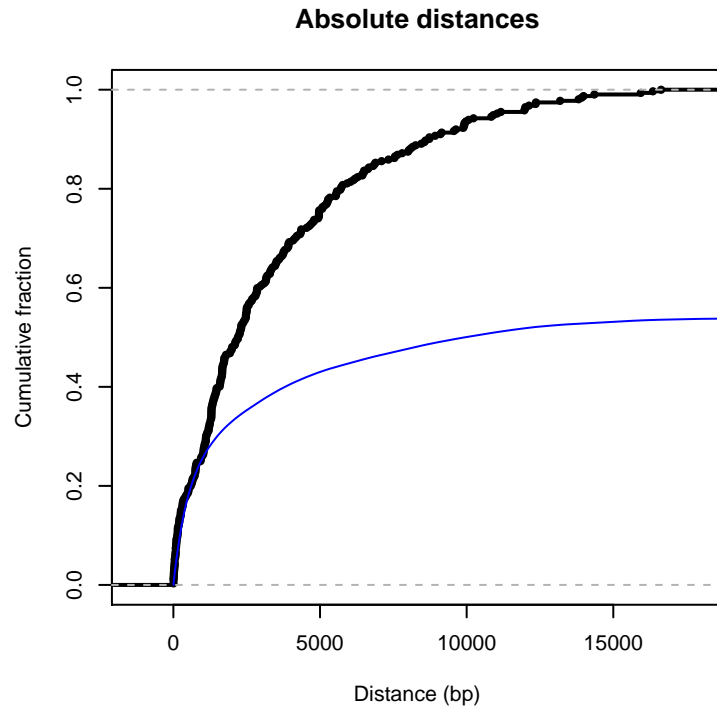
pcontig_012

Query population : 280
Reference population : 897
Relative Ks p-value : 0.0332094
Relative ecdf deviation area : 0.0251729
Relative ecdf area correlation : -0.10053
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 : 0.0162988
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.23558



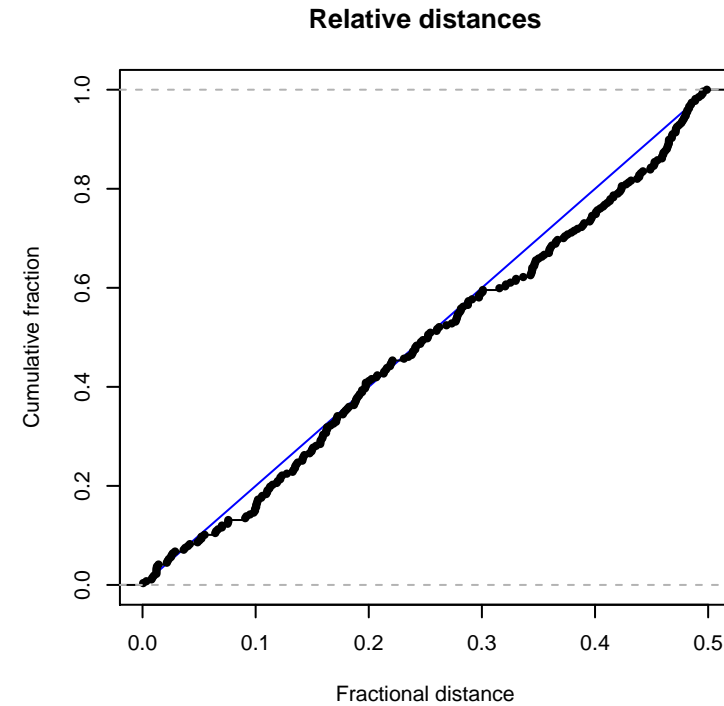
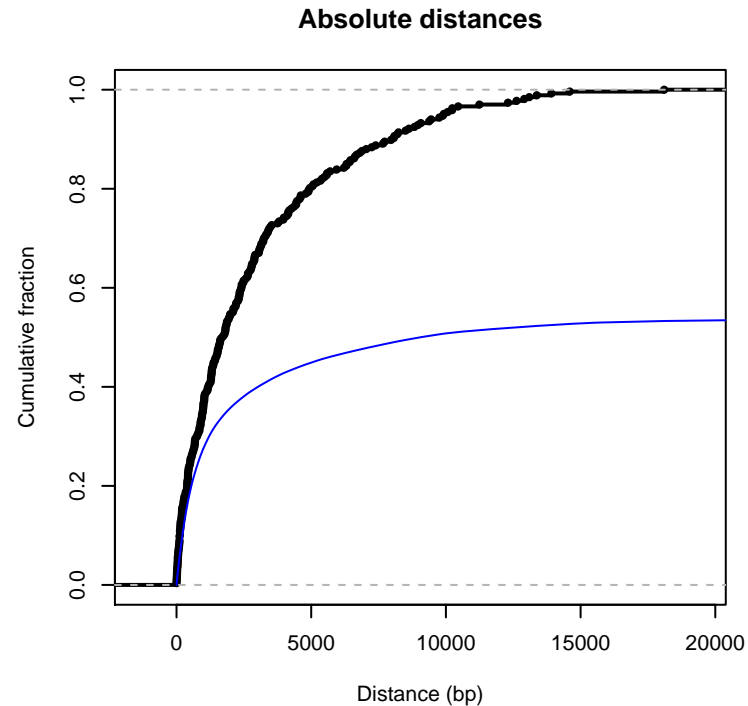
pcontig_013

Query population : 312
Reference population : 936
Relative Ks p-value : 0.0122709
Relative ecdf deviation area : 0.0193027
Relative ecdf area correlation : -0.0759204
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 : 0.09
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.00733339
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.26479



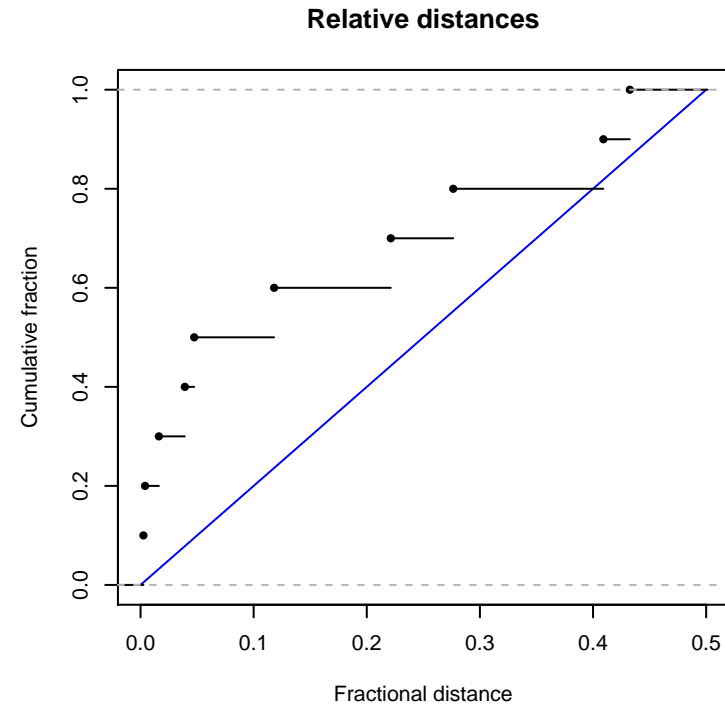
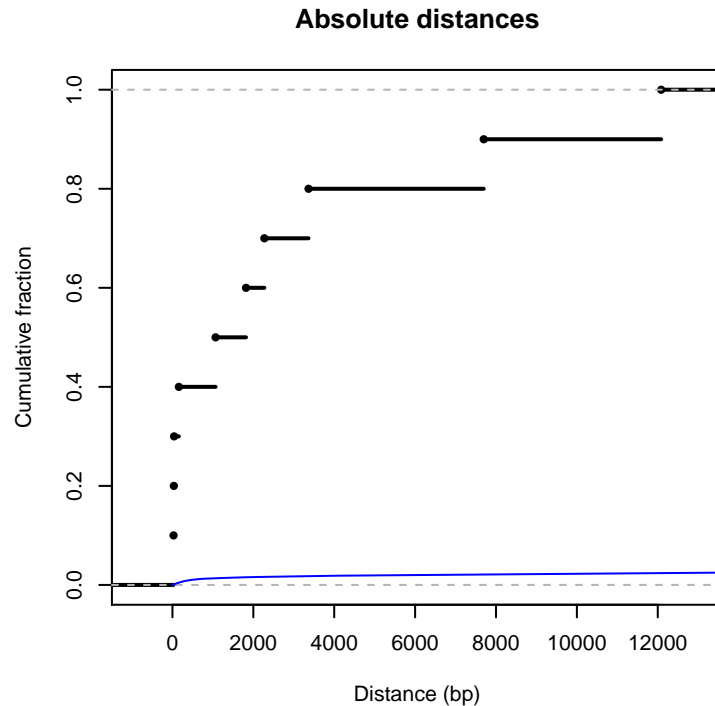
pcontig_014

Query population : 267
Reference population : 941
Relative Ks p-value : 0.221095
Relative ecdf deviation area : 0.0128777
Relative ecdf area correlation : -0.0494422
Relative ecdf deviation area p-value : 0.2
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.32
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000410791
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.3643



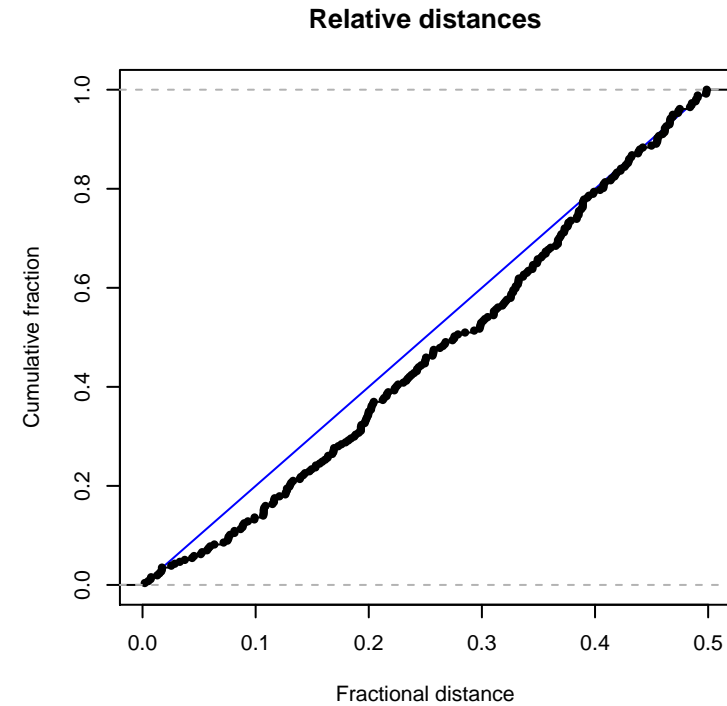
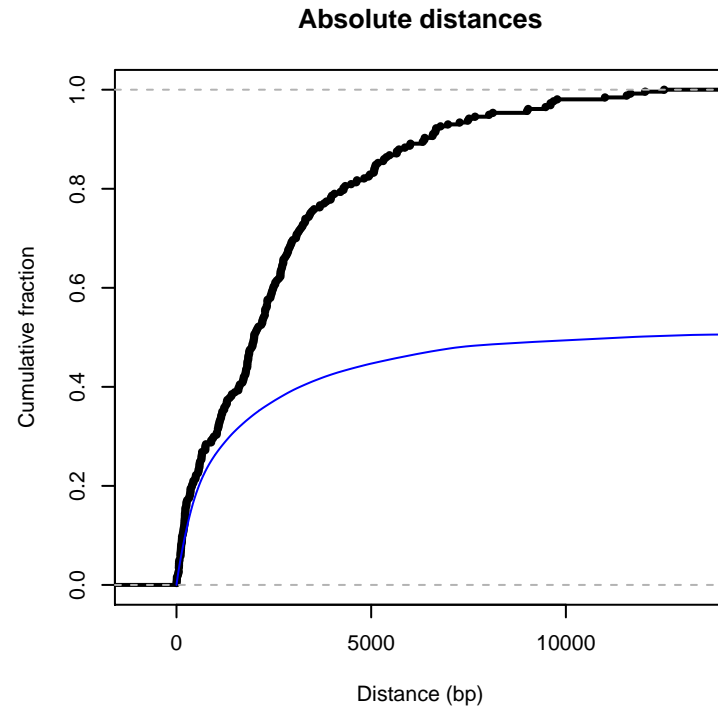
pcontig_015

Query population : 10
Reference population : 62
Relative Ks p-value : 0.0538249
Relative ecdf deviation area : 0.0938135
Relative ecdf area correlation : 0.373302
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 : 1.03298e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 29.8294



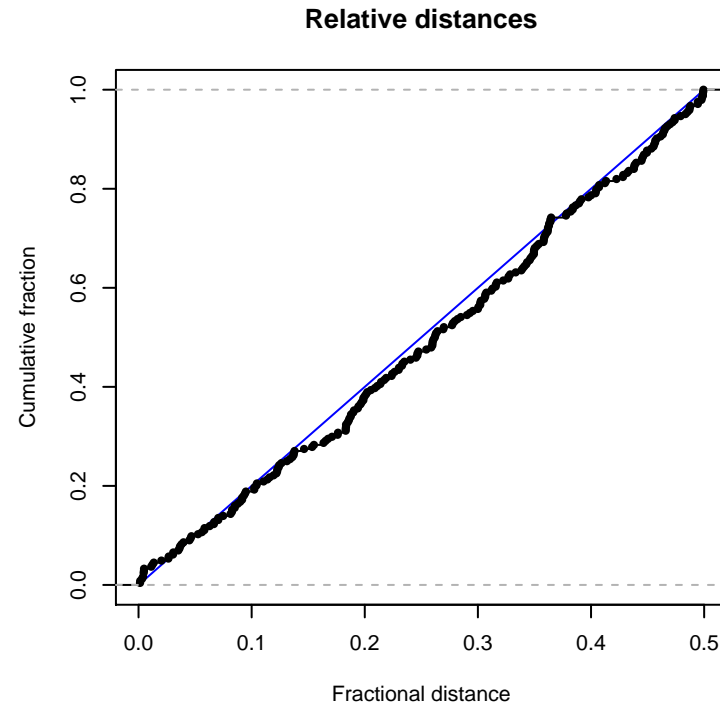
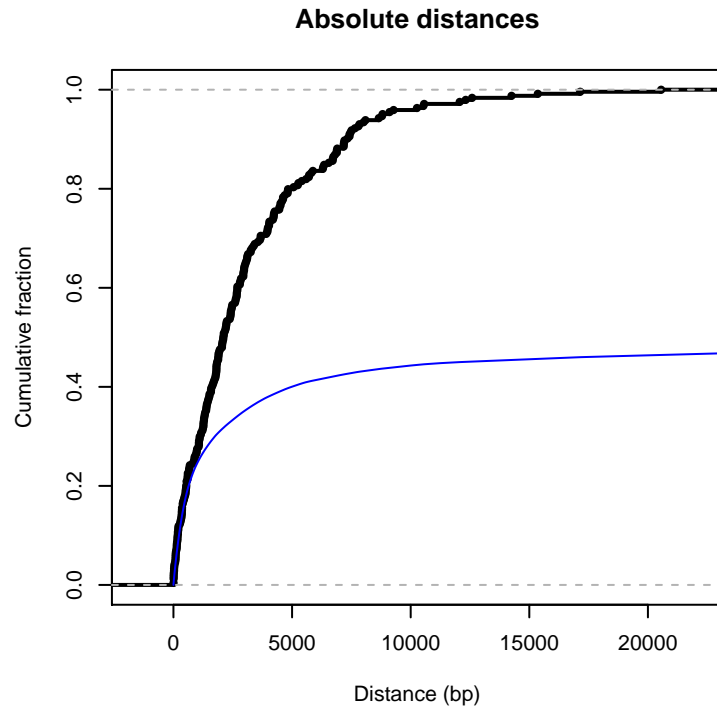
pcontig_016

Query population : 257
Reference population : 956
Relative Ks p-value : 0.0625997
Relative ecdf deviation area : 0.0215013
Relative ecdf area correlation : -0.0832965
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 : 0.26
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.012179
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.25459



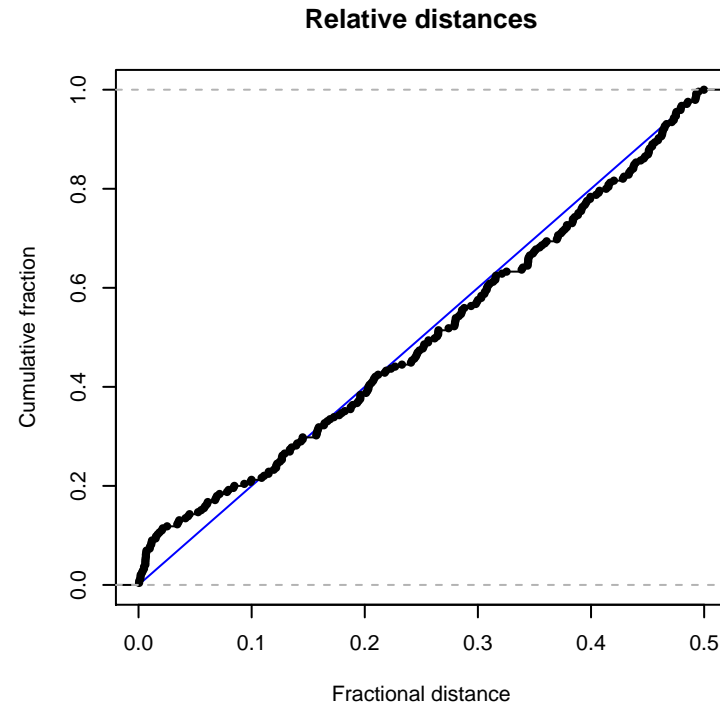
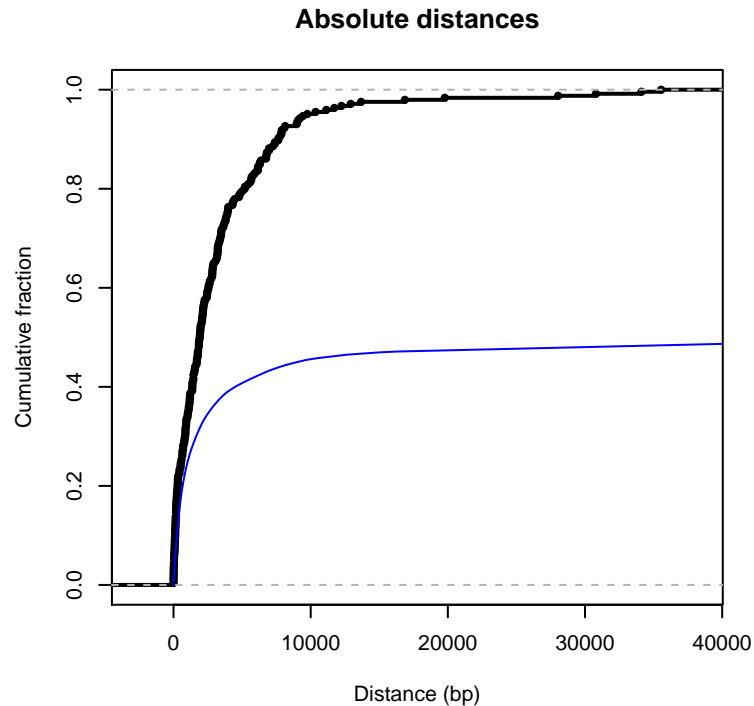
pcontig_017

Query population : 244
Reference population : 912
Relative Ks p-value : 0.366169
Relative ecdf deviation area : 0.0107963
Relative ecdf area correlation : -0.0396433
Relative ecdf deviation area p-value : 0.3
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.4
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.105167
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.15332



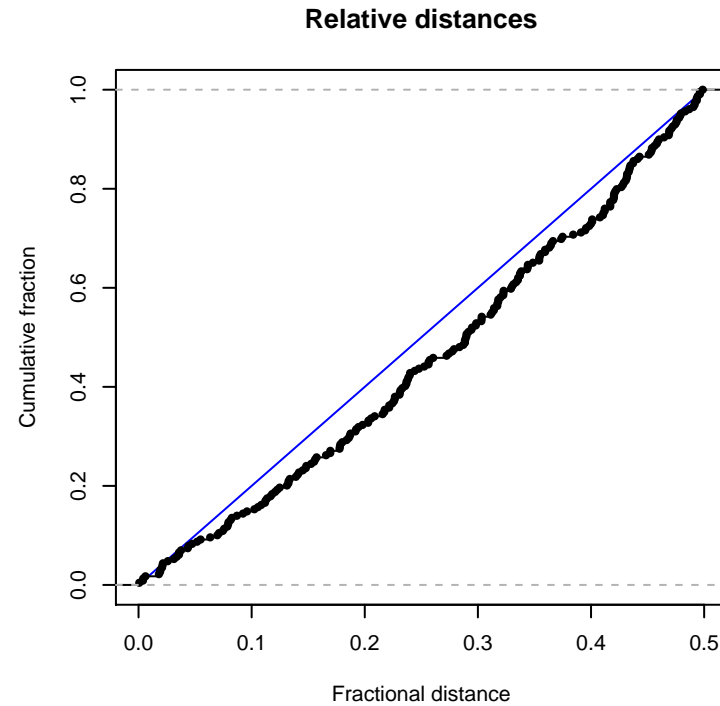
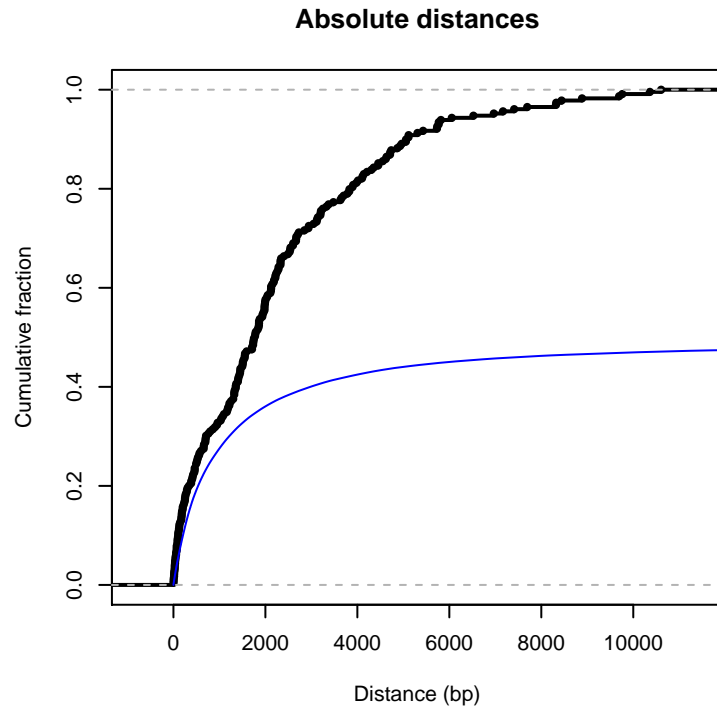
pcontig_018

Query population : 245
Reference population : 854
Relative Ks p-value : 0.164635
Relative ecdf deviation area : 0.0120487
Relative ecdf area correlation : -0.0133258
Relative ecdf deviation area p-value : 0.31
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.37
Jaccard Measure lower tail : TRUE
Projection test p-value : 7.10908e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.5458



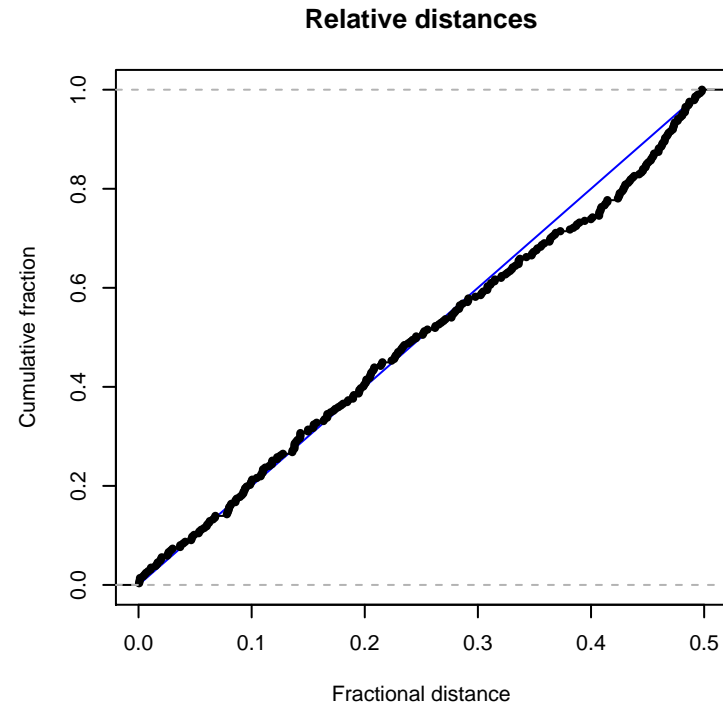
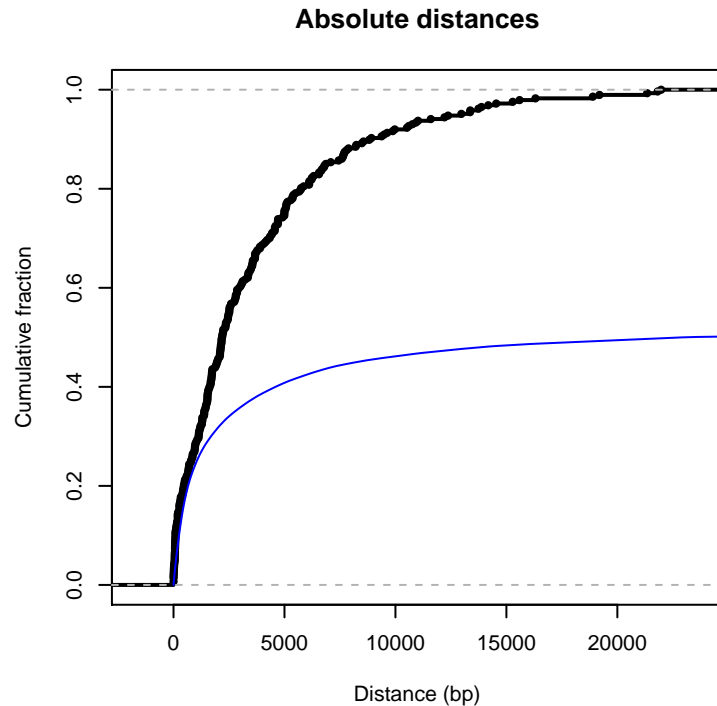
pcontig_019

Query population : 229
Reference population : 1007
Relative Ks p-value : 0.0356985
Relative ecdf deviation area : 0.0249857
Relative ecdf area correlation : -0.102058
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 : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000382617
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.39213



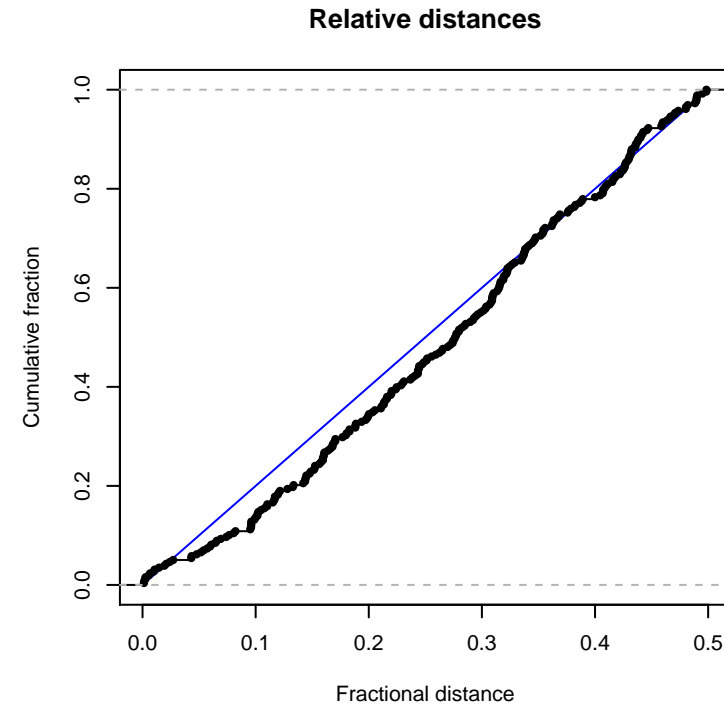
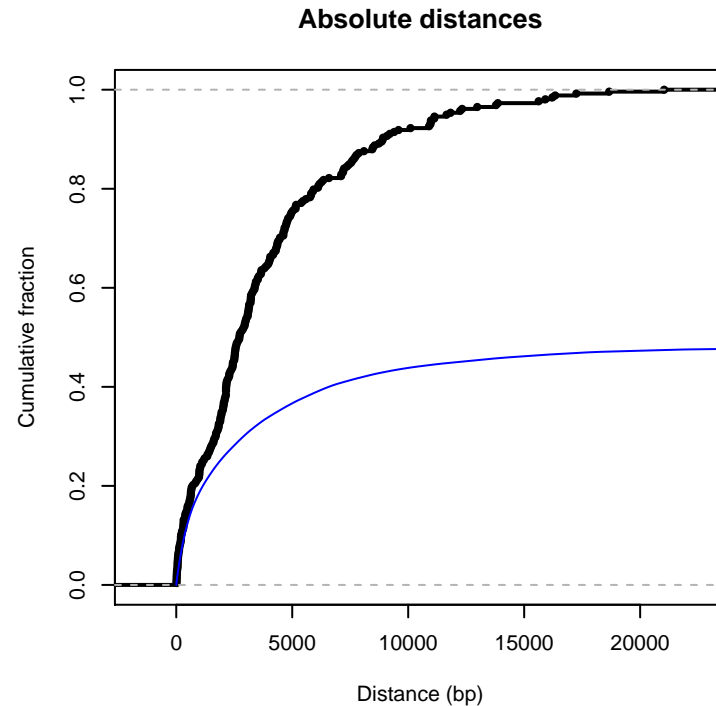
pcontig_020

Query population : 287
Reference population : 826
Relative Ks p-value : 0.101594
Relative ecdf deviation area : 0.00926121
Relative ecdf area correlation : -0.024858
Relative ecdf deviation area p-value : 0.4
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.27
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000943291
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.36363



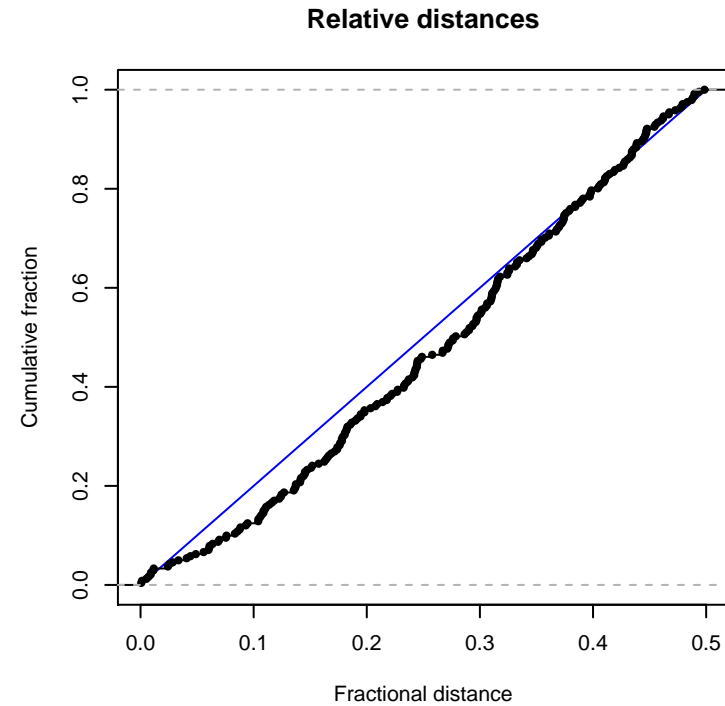
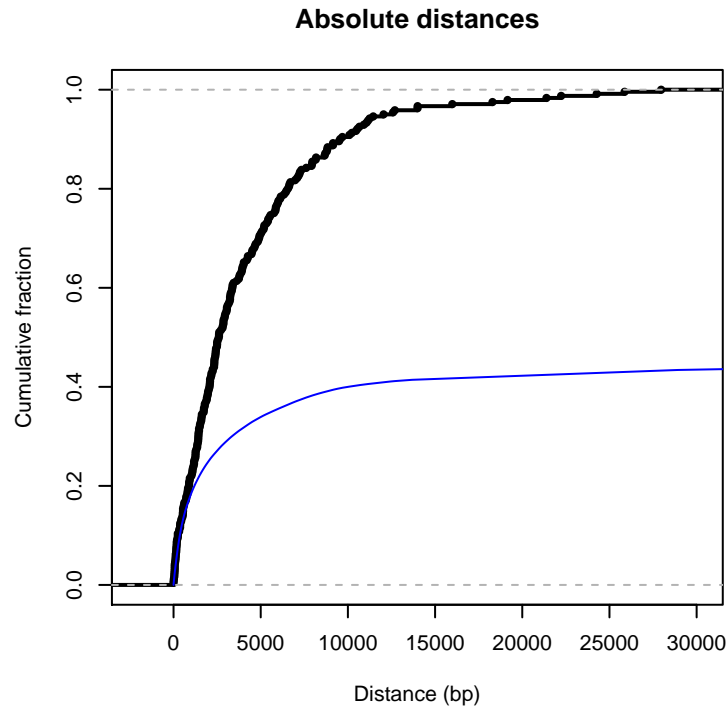
pcontig_021

Query population : 258
Reference population : 659
Relative Ks p-value : 0.0594049
Relative ecdf deviation area : 0.0174818
Relative ecdf area correlation : -0.0631517
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 : 0.35
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00167845
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.43593



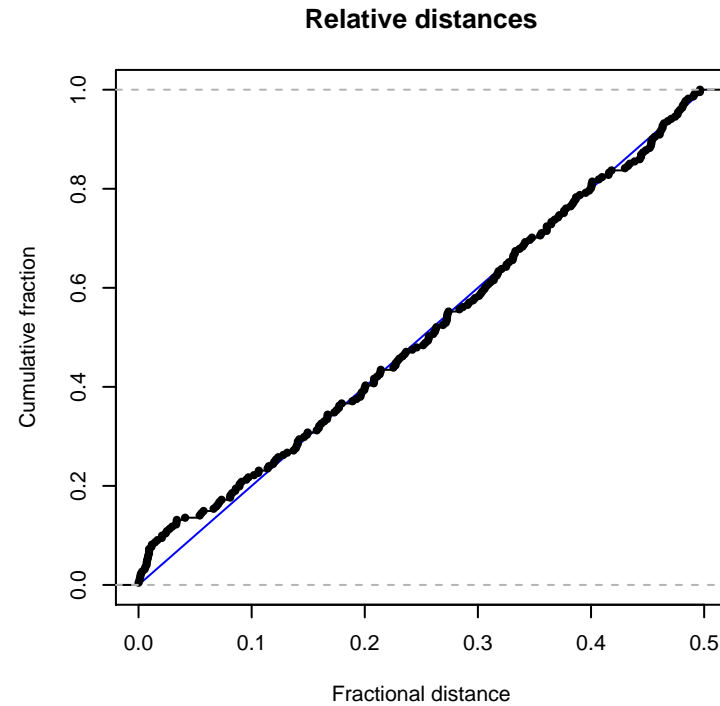
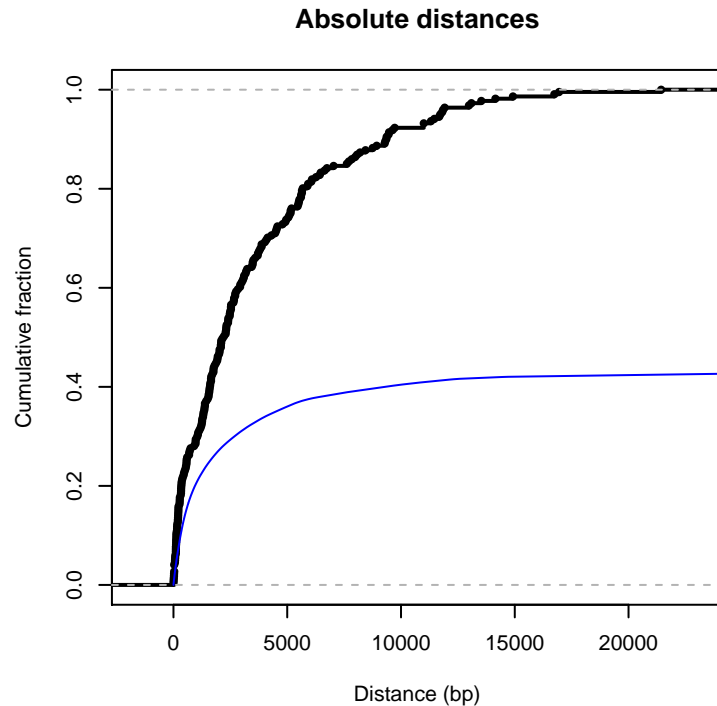
pcontig_022

Query population : 241
Reference population : 643
Relative Ks p-value : 0.0658805
Relative ecdf deviation area : 0.0186388
Relative ecdf area correlation : -0.0700166
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 : 0.18
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.16837e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.64569



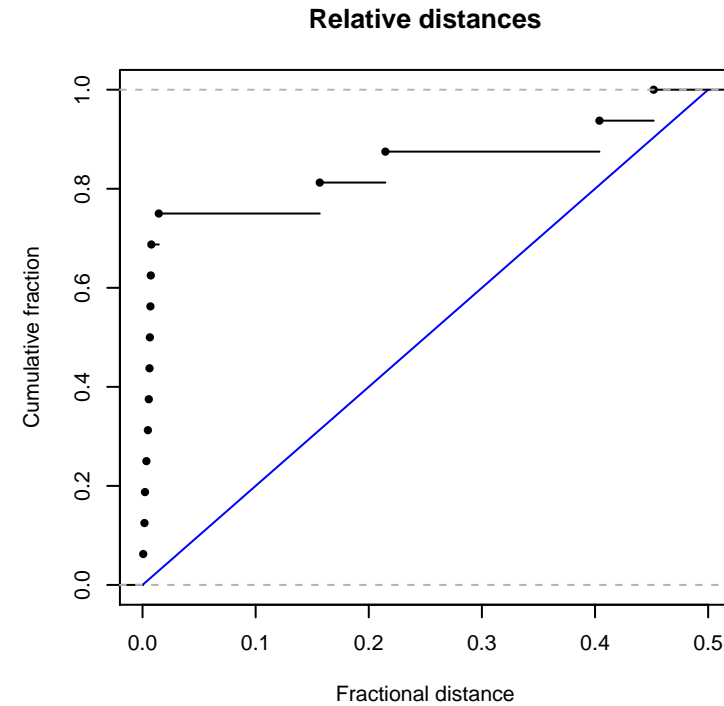
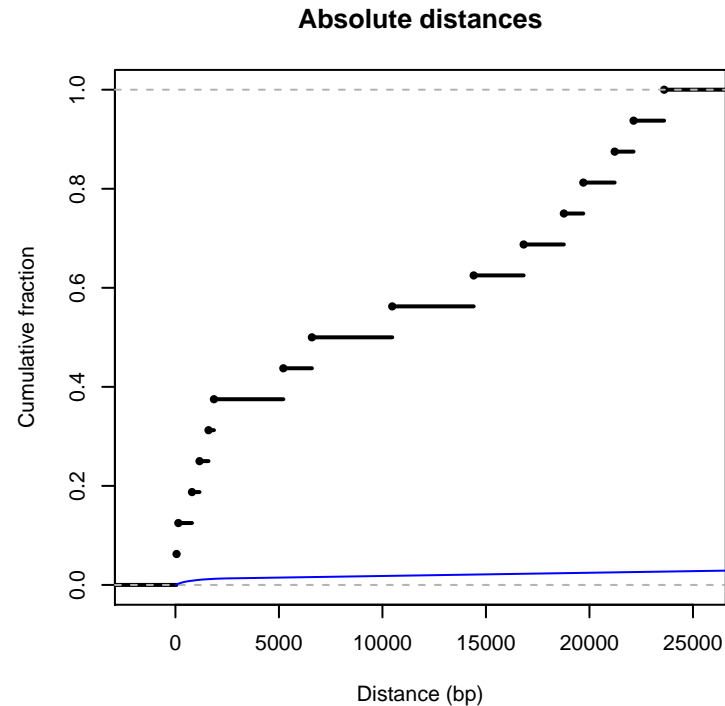
pcontig_023

Query population : 221
Reference population : 747
Relative Ks p-value : 0.33485
Relative ecdf deviation area : 0.00704493
Relative ecdf area correlation : 0.00627519
Relative ecdf deviation area p-value : 0.79
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.28
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.000113346
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.5837



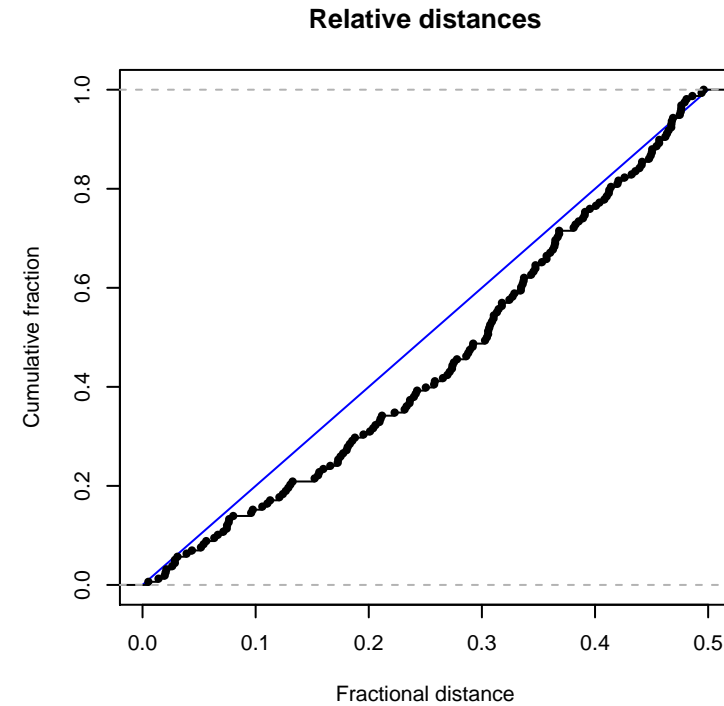
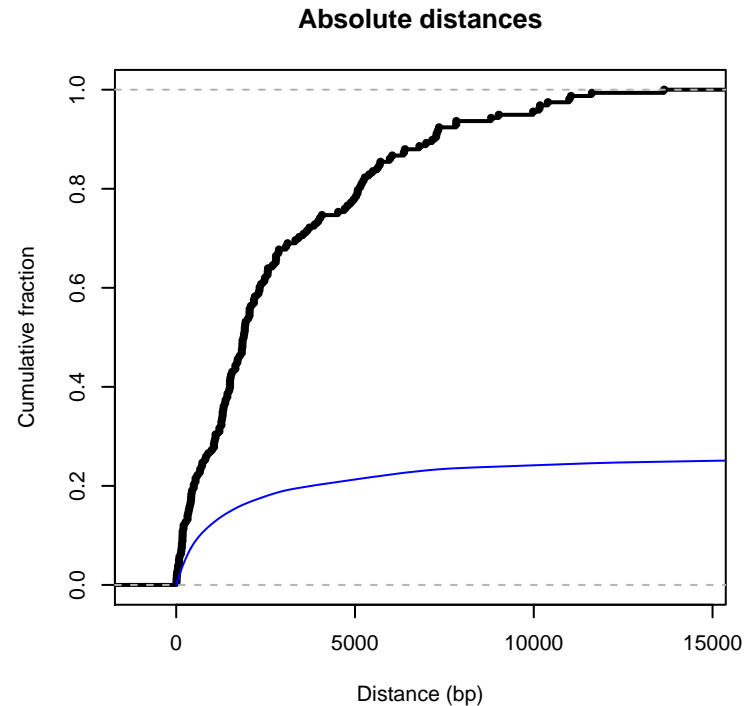
pcontig_024

Query population : 16
Reference population : 34
Relative Ks p-value : 5.71651e-09
Relative ecdf deviation area : 0.168668
Relative ecdf area correlation : 0.676404
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 9.05185e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 30.1669



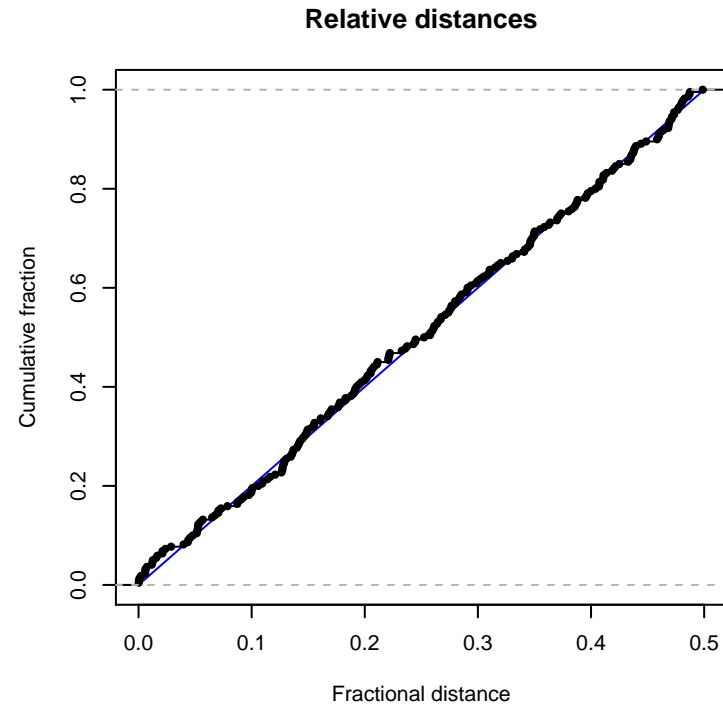
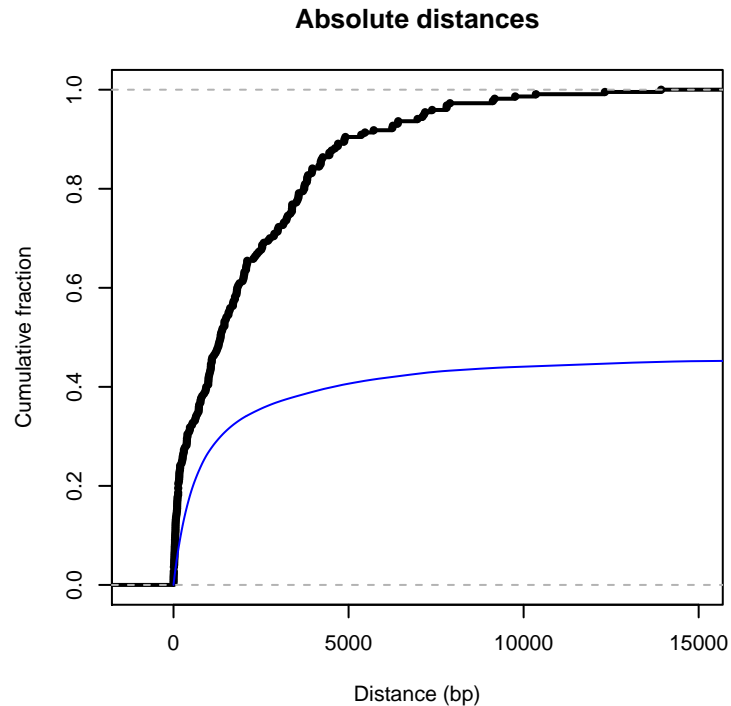
pcontig_025

Query population : 158
Reference population : 424
Relative Ks p-value : 0.0191212
Relative ecdf deviation area : 0.0291812
Relative ecdf area correlation : -0.114379
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.39306



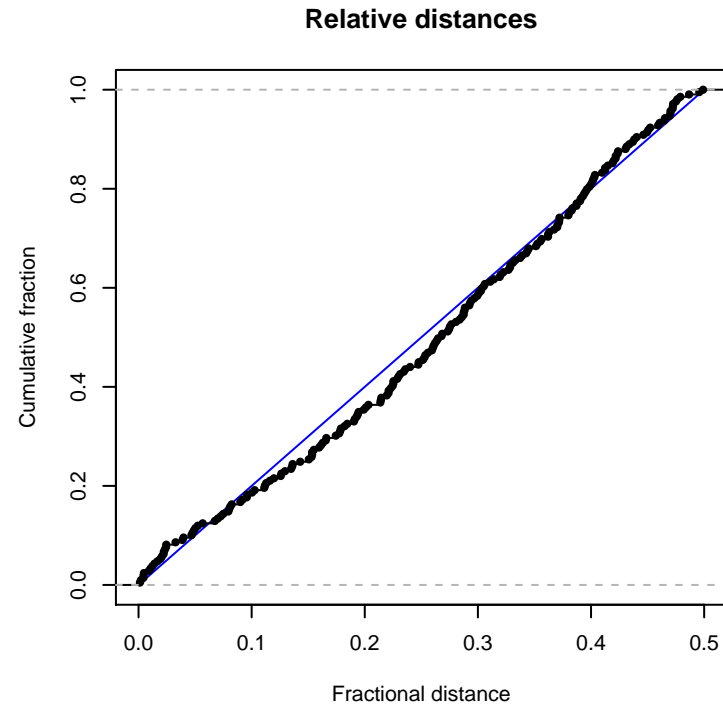
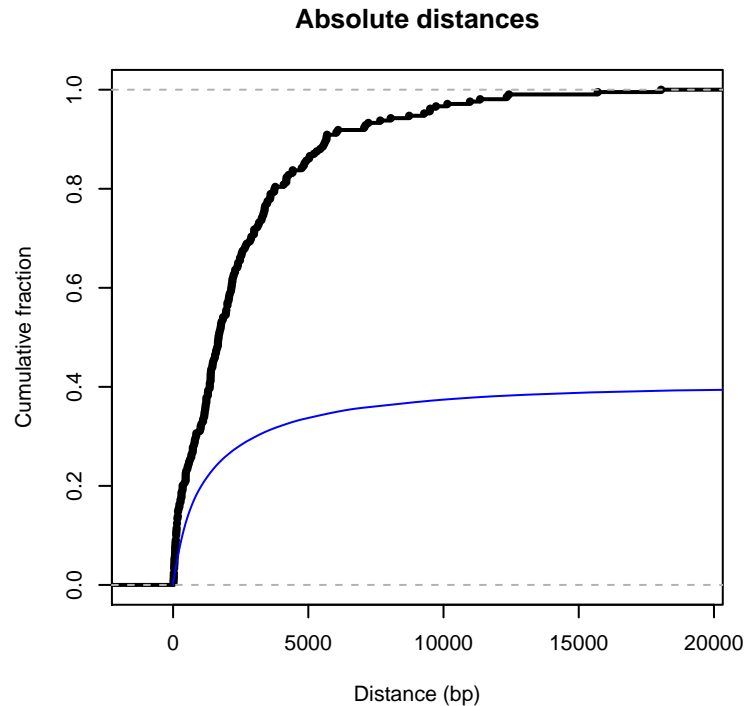
pcontig_026

Query population : 220
Reference population : 1040
Relative Ks p-value : 0.988931
Relative ecdf deviation area : 0.00494075
Relative ecdf area correlation : 0.0040792
Relative ecdf deviation area p-value : 0.93
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 : 4.43535e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.69534



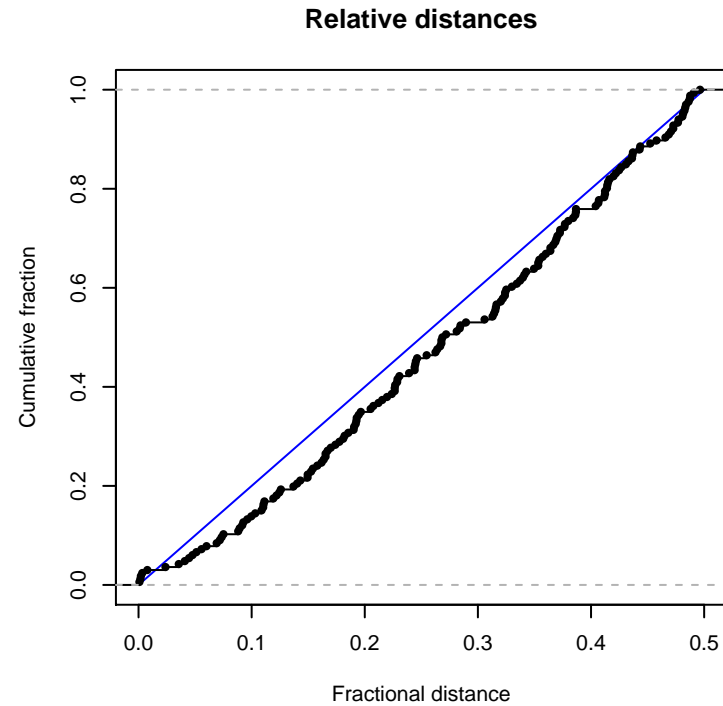
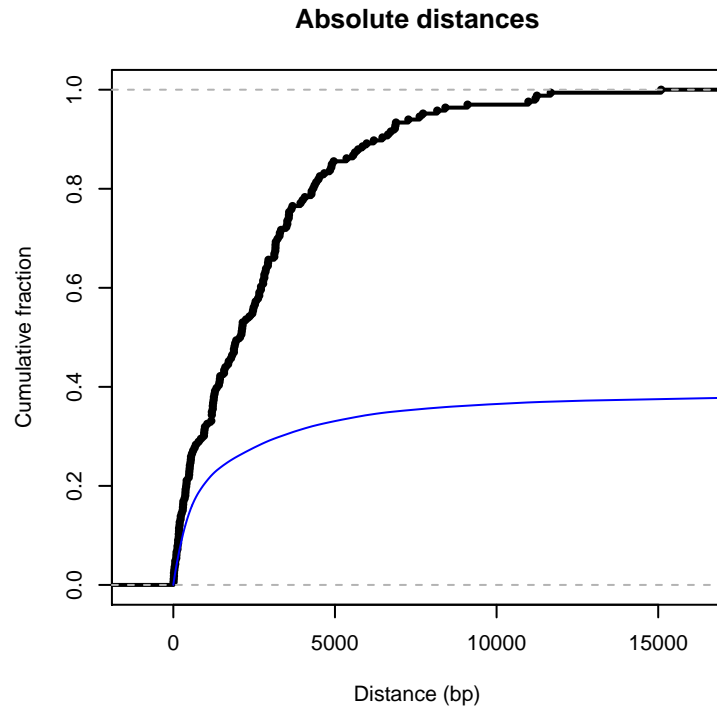
pcontig_027

Query population : 209
Reference population : 667
Relative Ks p-value : 0.361683
Relative ecdf deviation area : 0.0115686
Relative ecdf area correlation : -0.0294857
Relative ecdf deviation area p-value : 0.31
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.09106e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.01691



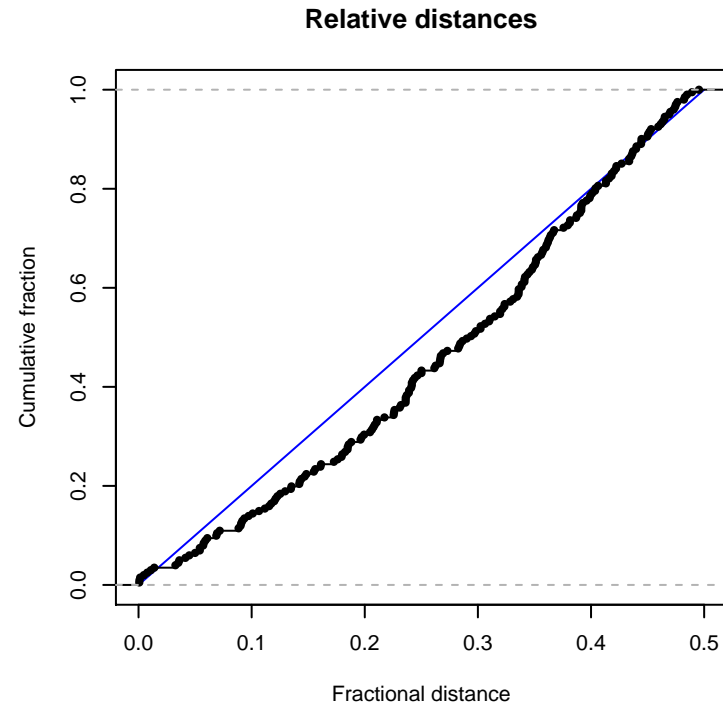
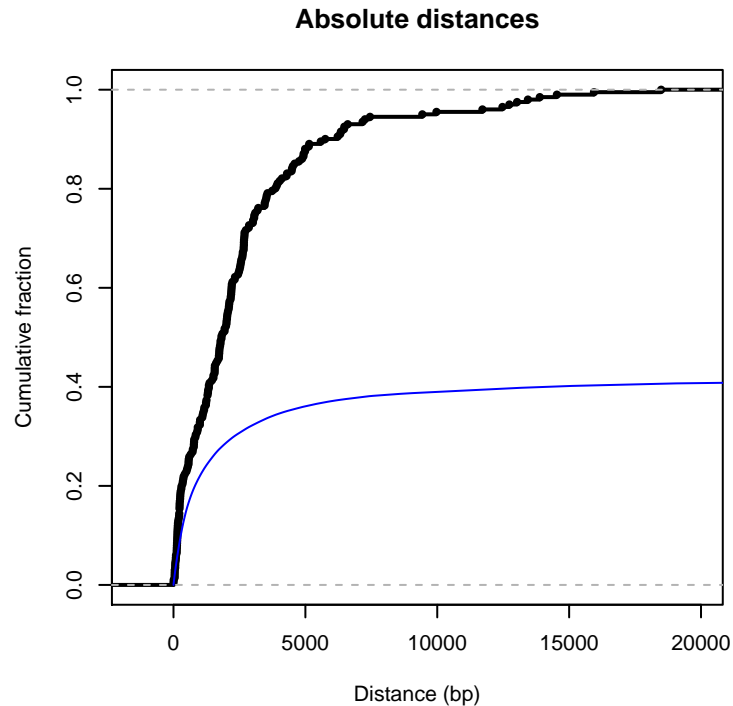
pcontig_028

Query population : 166
Reference population : 761
Relative Ks p-value : 0.137805
Relative ecdf deviation area : 0.0233502
Relative ecdf area correlation : -0.0910931
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 : 0.12
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.42751e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.86024



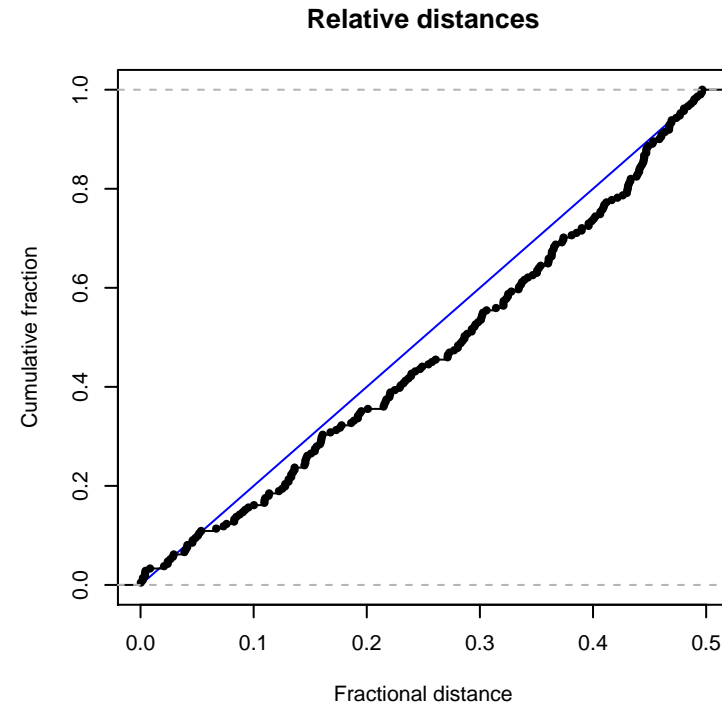
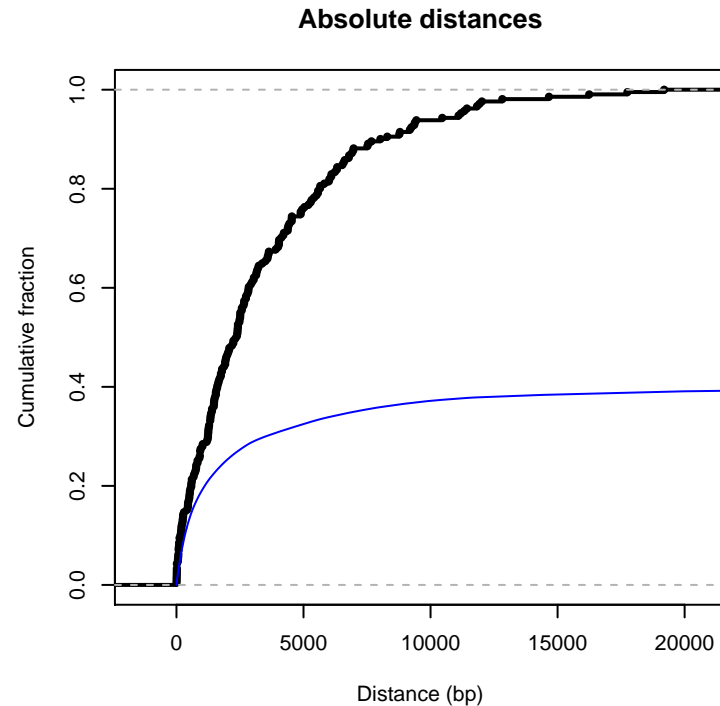
pcontig_029

Query population : 201
Reference population : 791
Relative Ks p-value : 0.0120609
Relative ecdf deviation area : 0.0270332
Relative ecdf area correlation : -0.102227
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 : 3.40817e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.73693



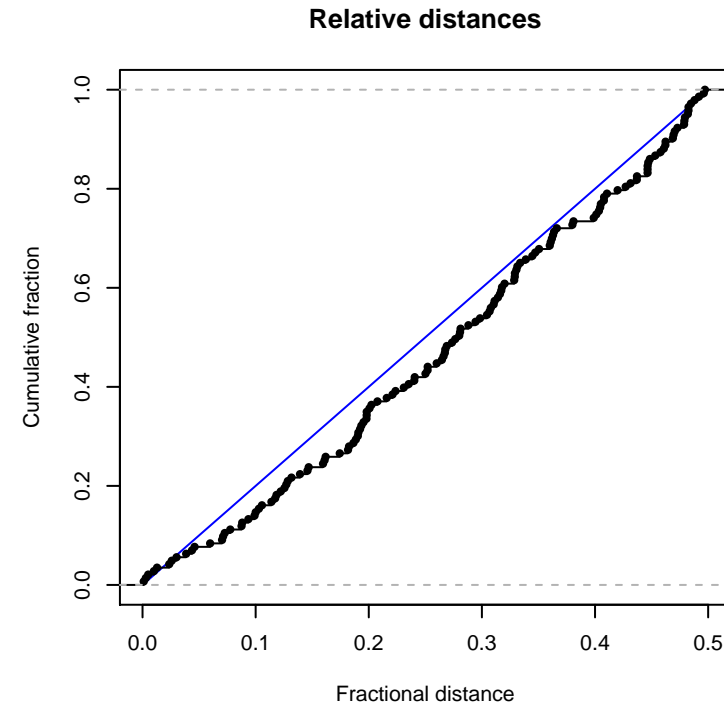
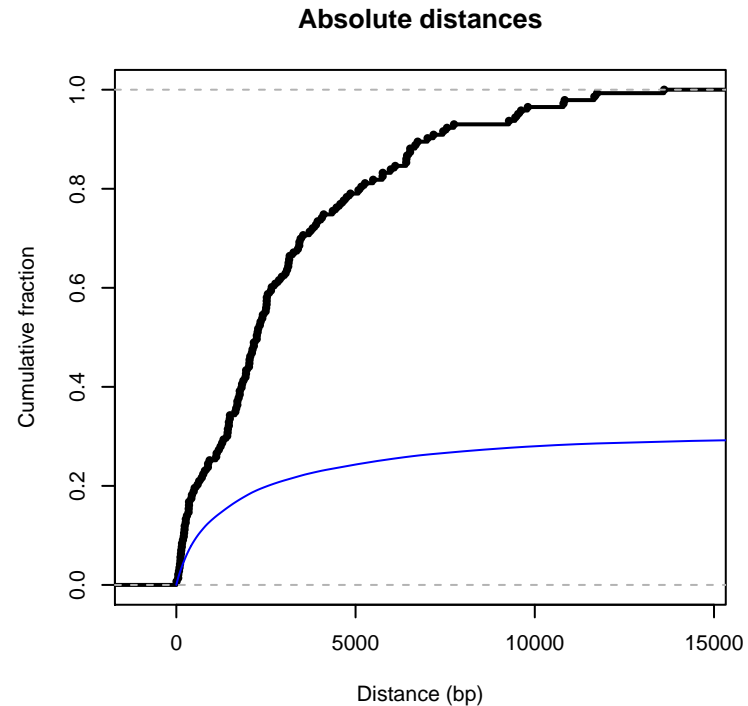
pcontig_030

Query population : 211
Reference population : 715
Relative Ks p-value : 0.0768628
Relative ecdf deviation area : 0.0219875
Relative ecdf area correlation : -0.0876369
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 : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.97344e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.62495



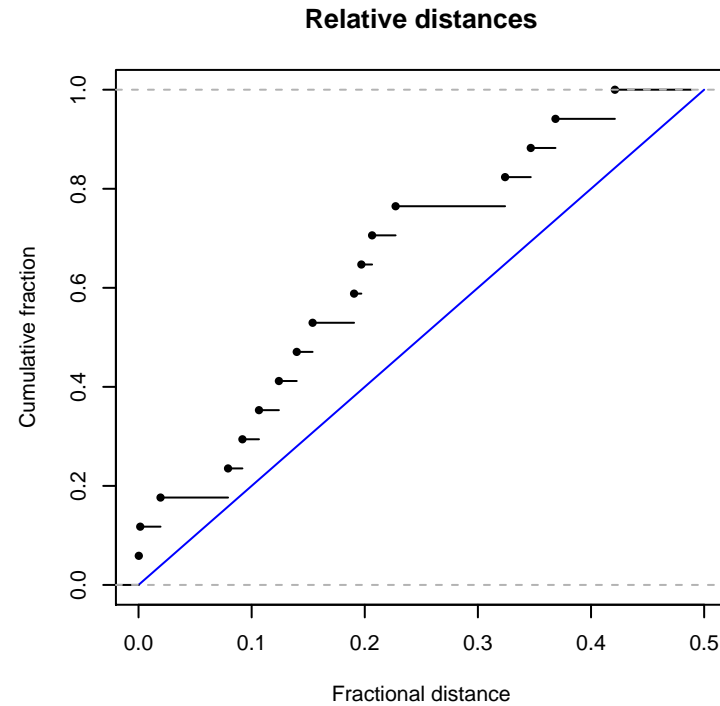
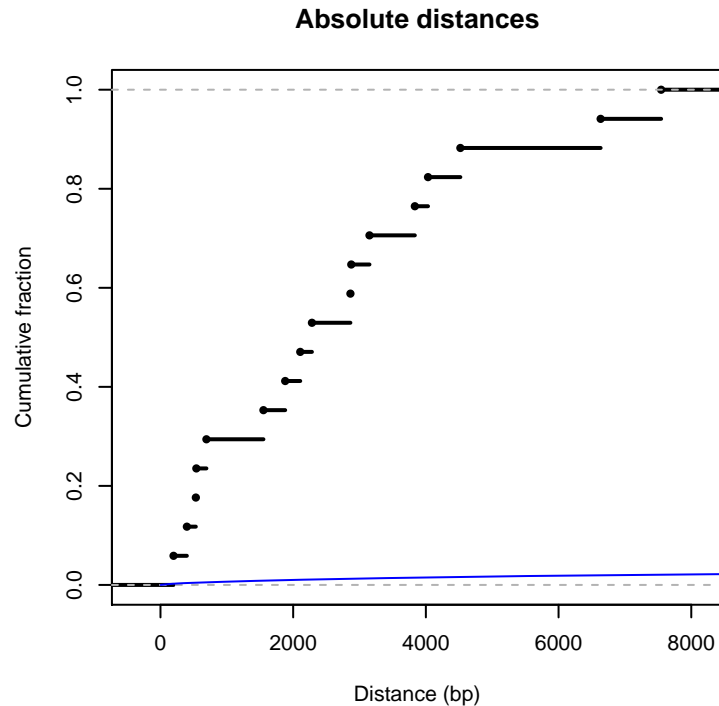
pcontig_031

Query population : 143
Reference population : 482
Relative Ks p-value : 0.131261
Relative ecdf deviation area : 0.0233921
Relative ecdf area correlation : -0.0922917
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 : 4.76187e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.51911



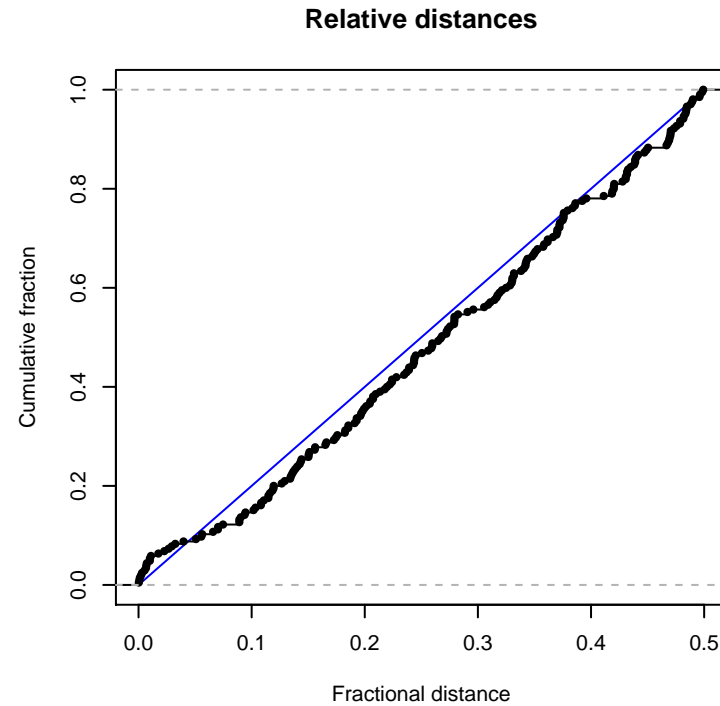
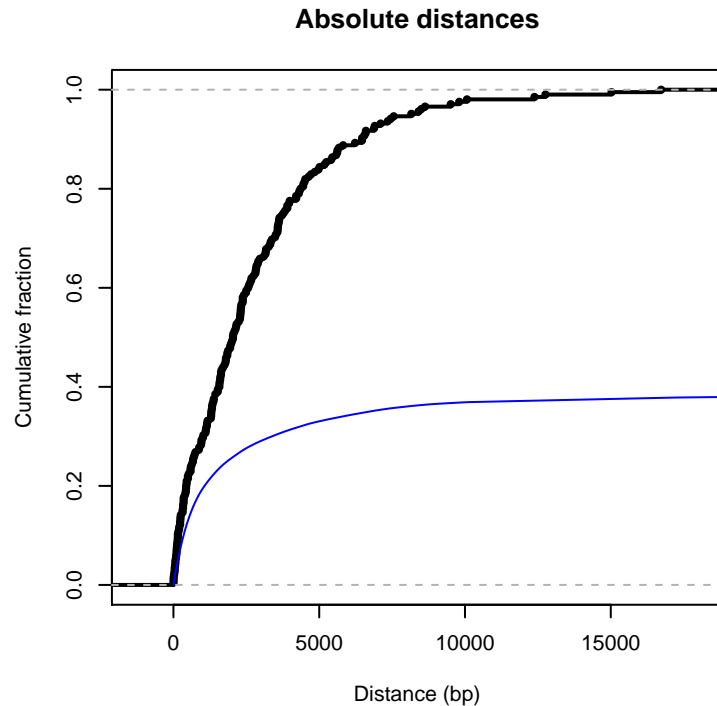
pcontig_032

Query population : 17
Reference population : 23
Relative Ks p-value : 0.059665
Relative ecdf deviation area : 0.0737044
Relative ecdf area correlation : 0.294546
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
Projection test lower tail : FALSE
Projection test observed to expected ratio : 53.0434



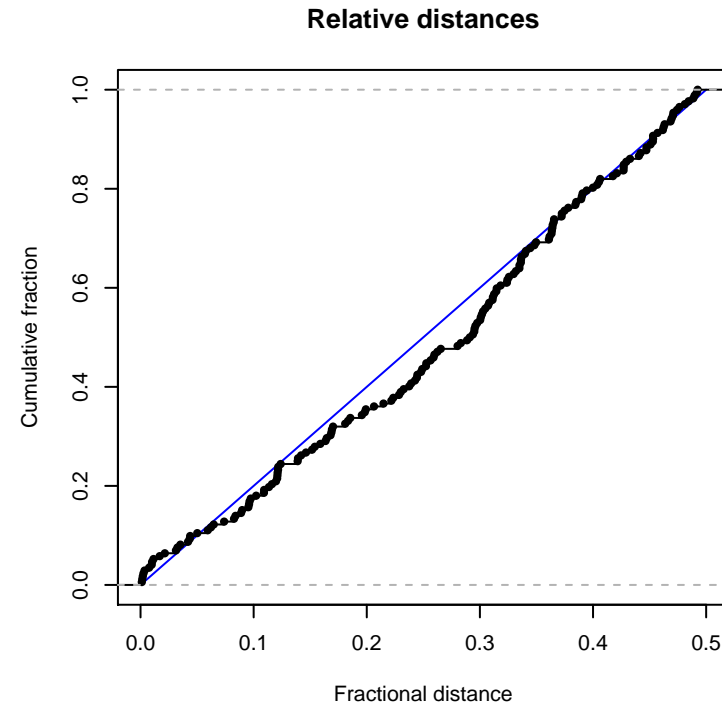
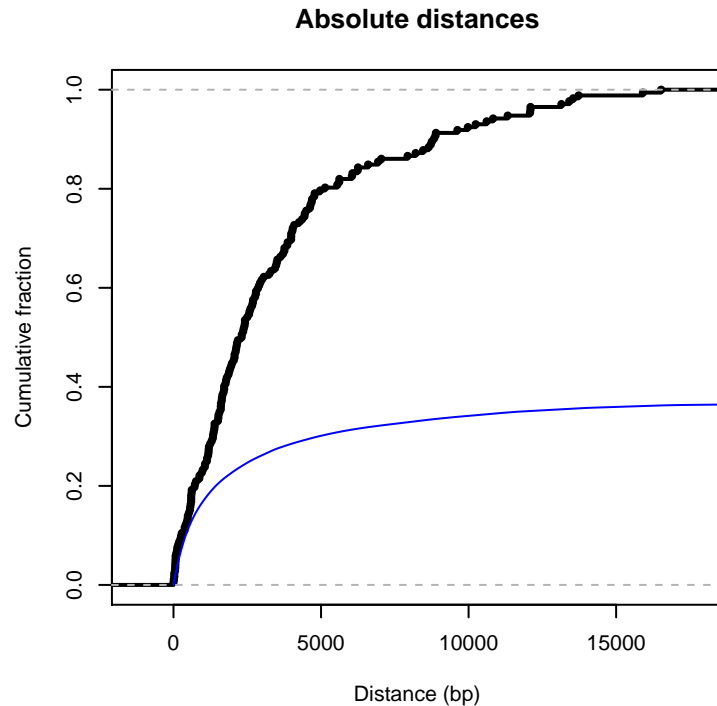
pcontig_033

Query population : 205
Reference population : 637
Relative Ks p-value : 0.404148
Relative ecdf deviation area : 0.0176807
Relative ecdf area correlation : -0.0627588
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 : 1.79756e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.82234



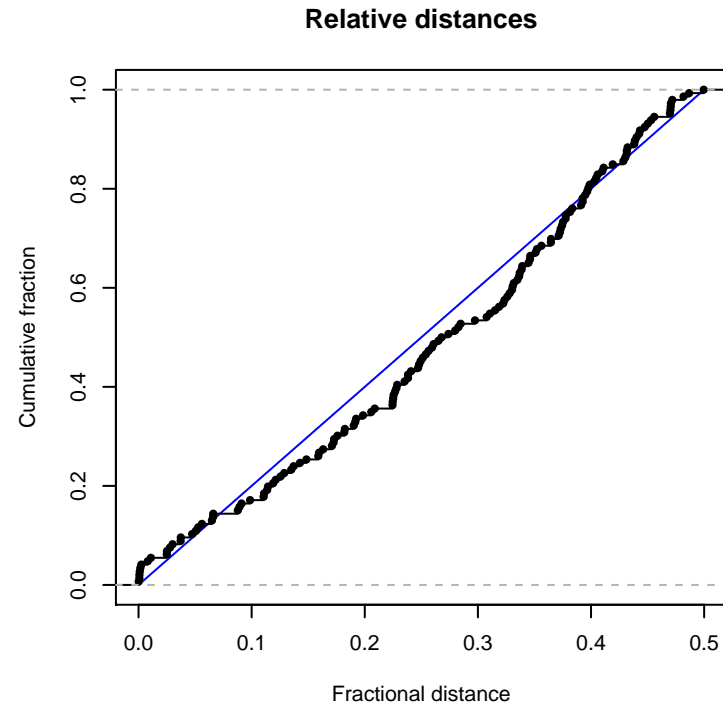
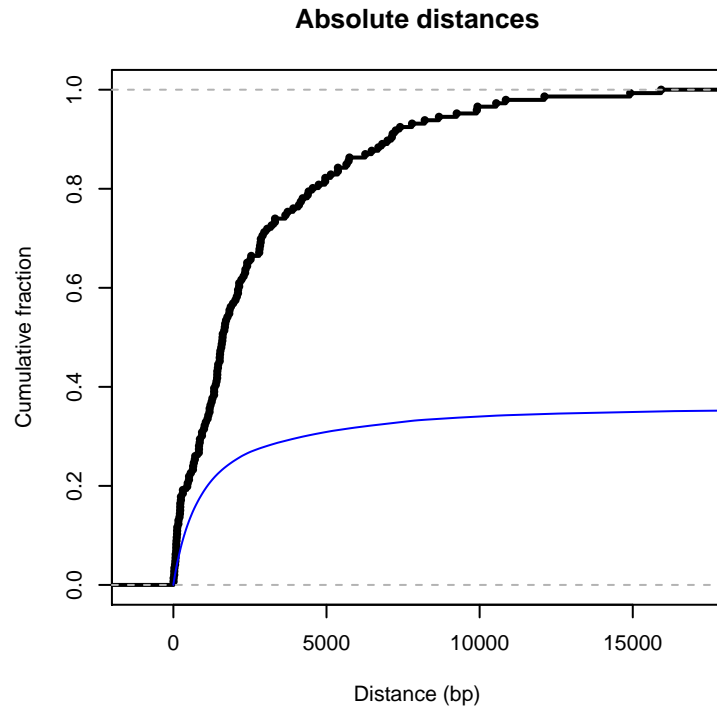
pcontig_034

Query population : 172
Reference population : 579
Relative Ks p-value : 0.131205
Relative ecdf deviation area : 0.0146201
Relative ecdf area correlation : -0.0512162
Relative ecdf deviation area p-value : 0.23
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.11
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.20807e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.77012



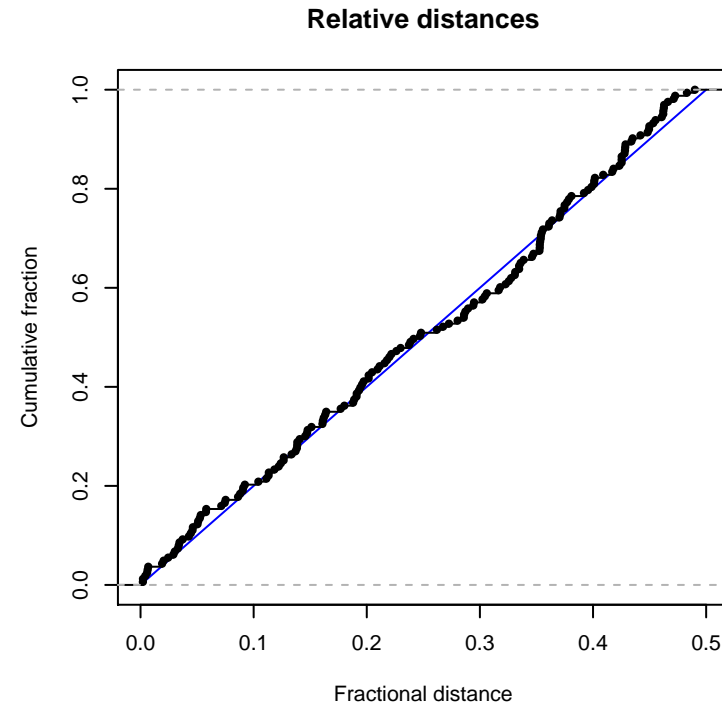
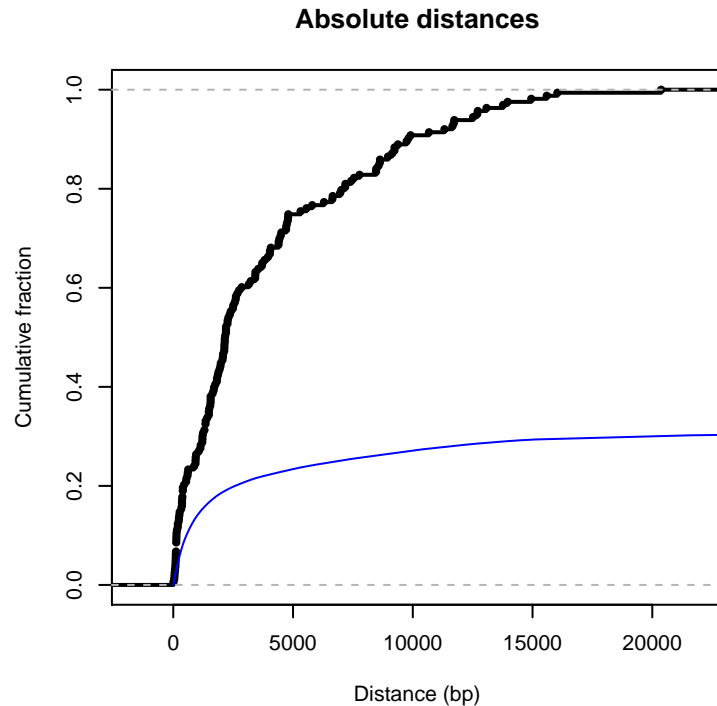
pcontig_035

Query population : 146
Reference population : 688
Relative Ks p-value : 0.161563
Relative ecdf deviation area : 0.0181875
Relative ecdf area correlation : -0.0512979
Relative ecdf deviation area p-value : 0.12
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 : 3.51379e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.90259



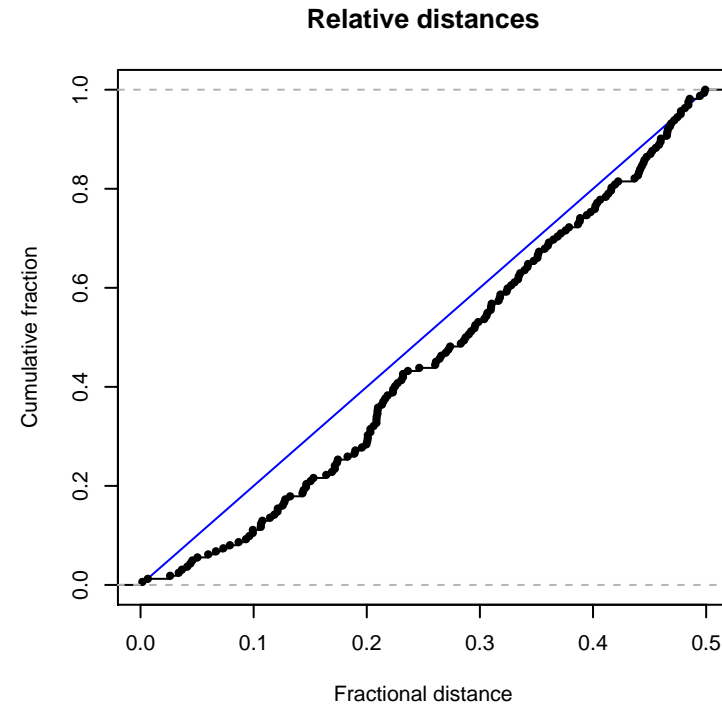
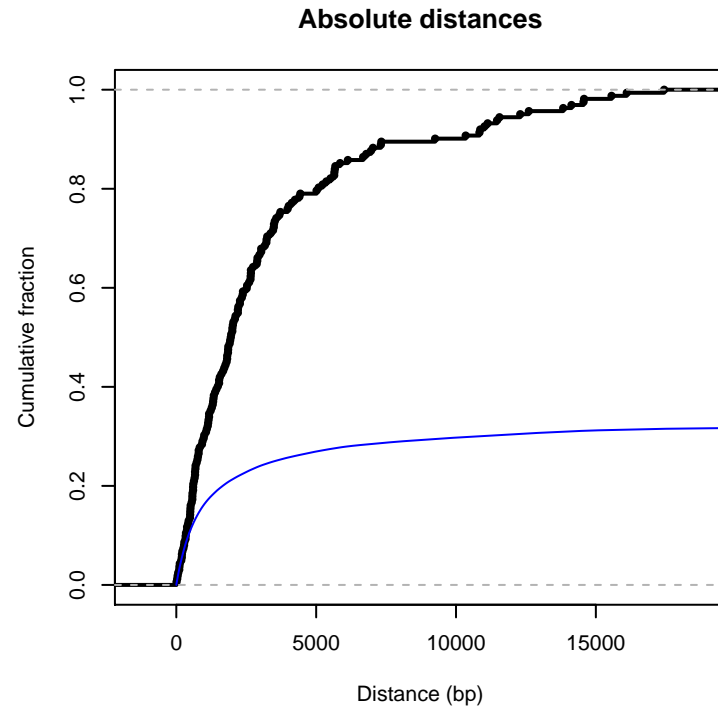
pcontig_036

Query population : 163
Reference population : 488
Relative Ks p-value : 0.90673
Relative ecdf deviation area : 0.00731089
Relative ecdf area correlation : 0.00655625
Relative ecdf deviation area p-value : 0.88
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.66271e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.43104



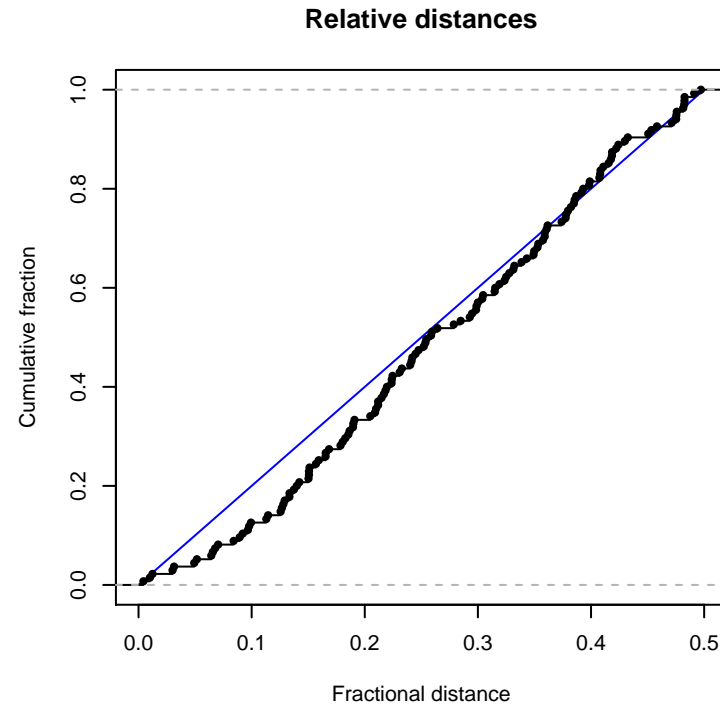
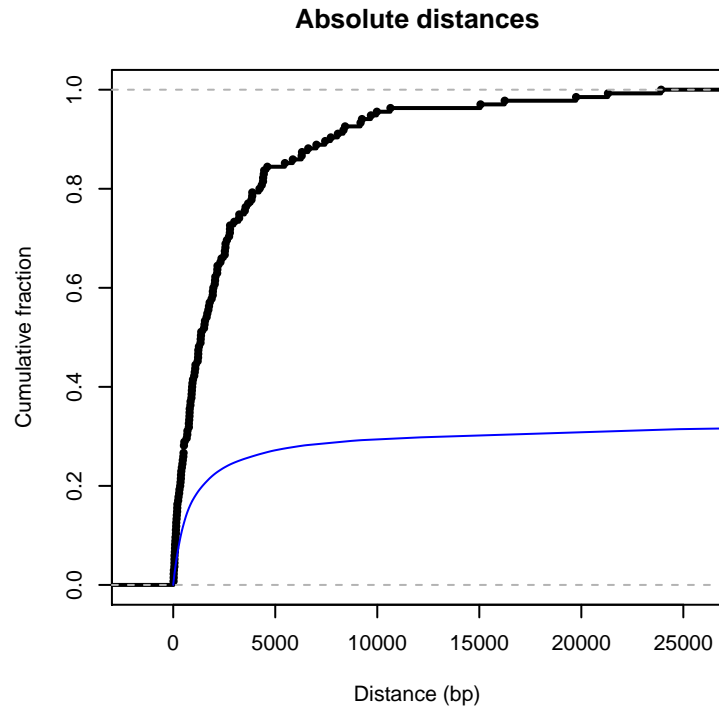
pcontig_037

Query population : 162
Reference population : 562
Relative Ks p-value : 0.0167704
Relative ecdf deviation area : 0.0290487
Relative ecdf area correlation : -0.11851
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 : 9.81477e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.90495



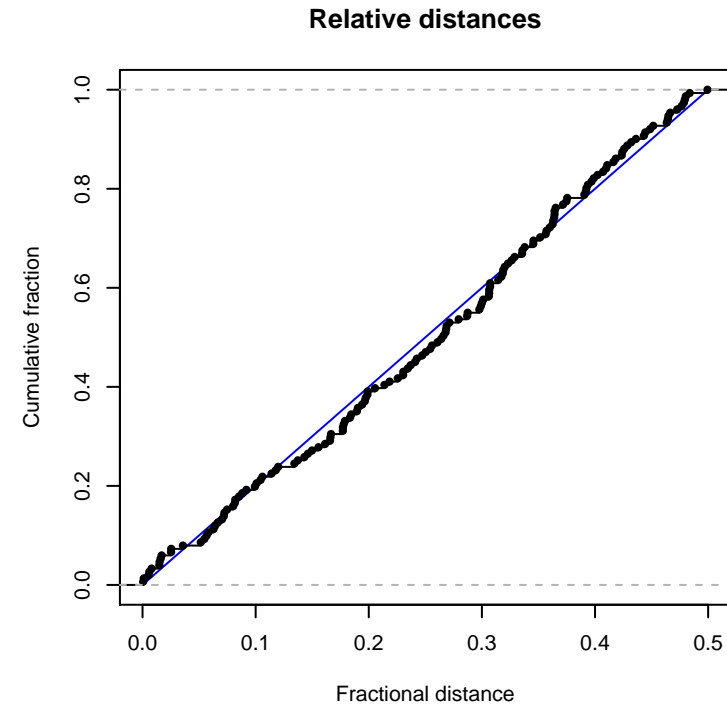
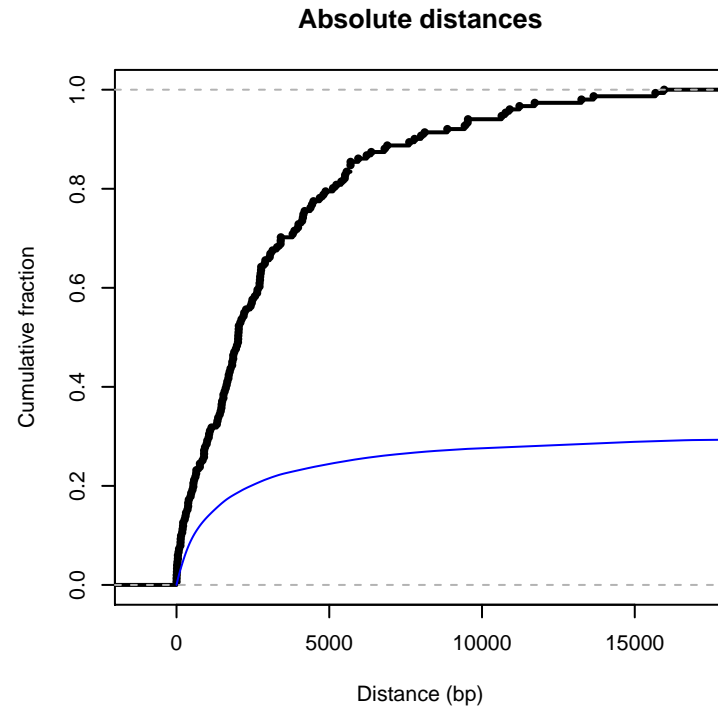
pcontig_039

Query population : 135
Reference population : 658
Relative Ks p-value : 0.0742486
Relative ecdf deviation area : 0.0209102
Relative ecdf area correlation : -0.0697975
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 : 2.8211e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.23668



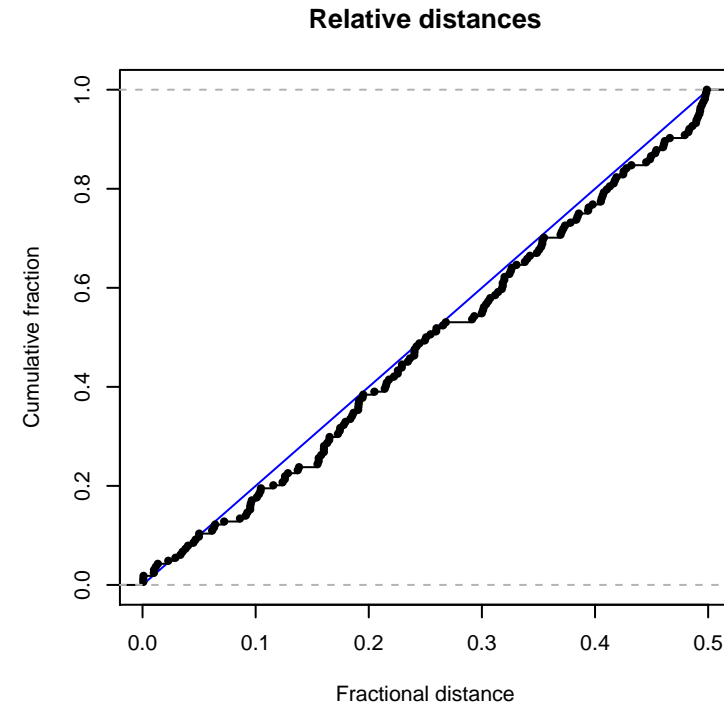
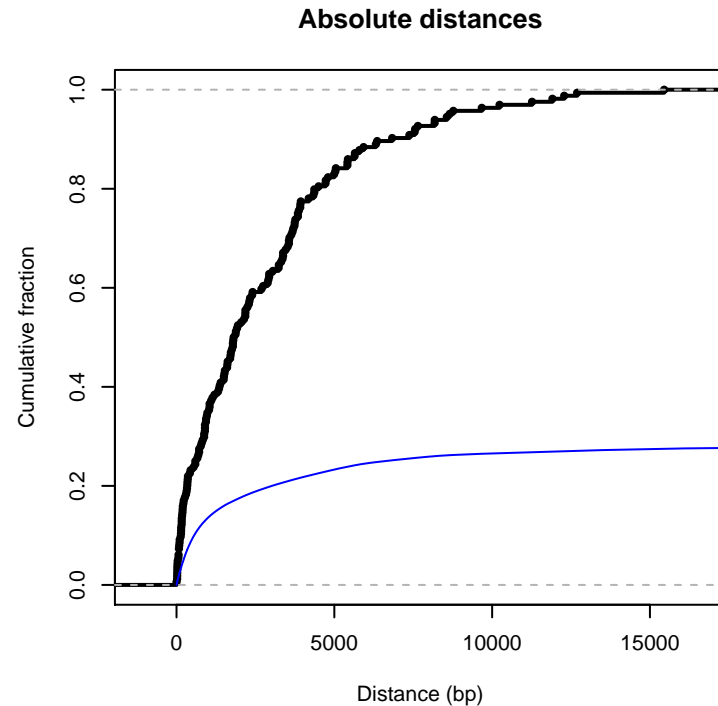
pcontig_040

Query population : 151
Reference population : 455
Relative Ks p-value : 0.852751
Relative ecdf deviation area : 0.00946479
Relative ecdf area correlation : -0.0137629
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 : 8.20629e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.41328



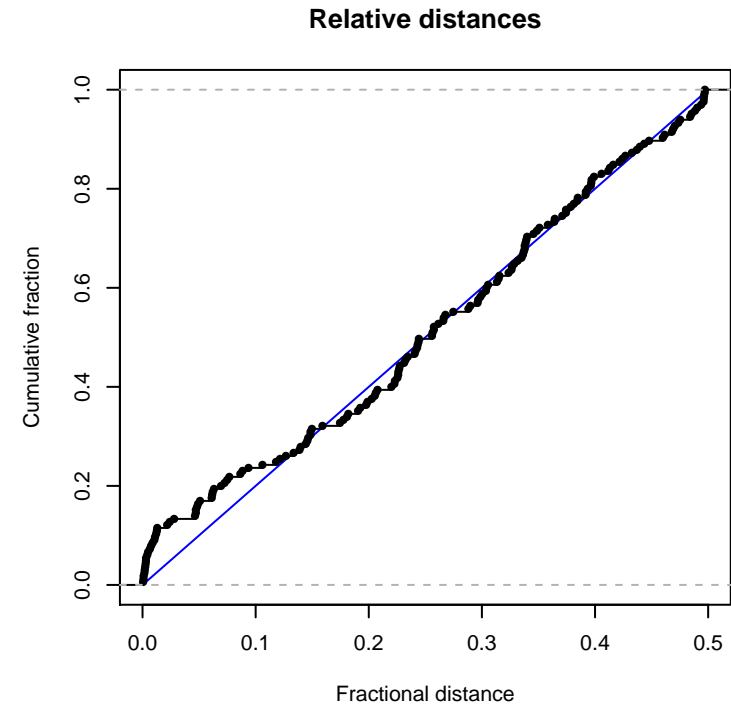
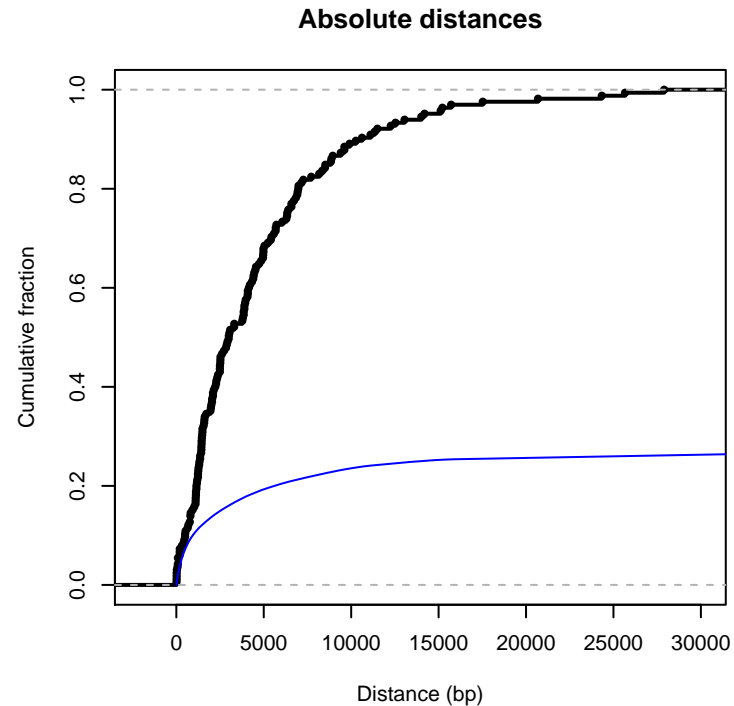
pcontig_041

Query population : 164
Reference population : 476
Relative Ks p-value : 0.370436
Relative ecdf deviation area : 0.0130665
Relative ecdf area correlation : -0.0531264
Relative ecdf deviation area p-value : 0.37
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 7.10543e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.90614



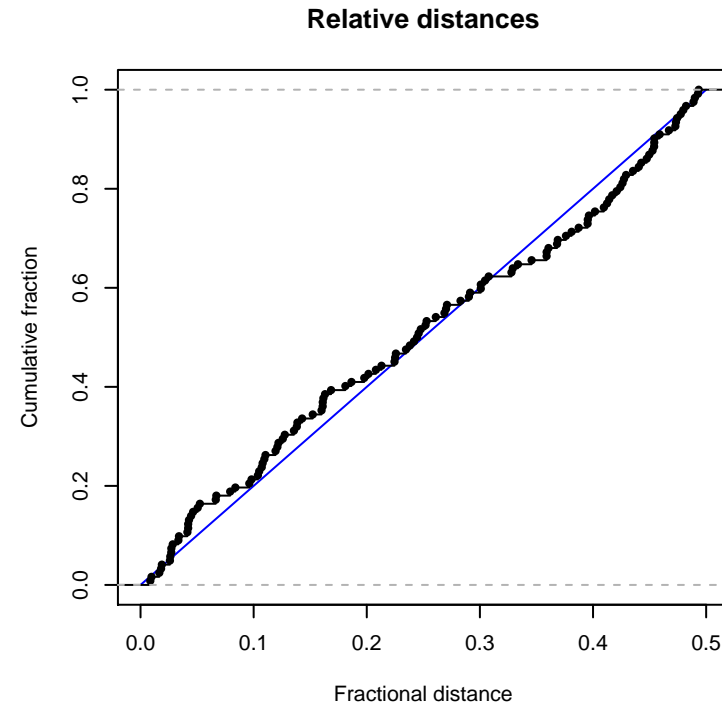
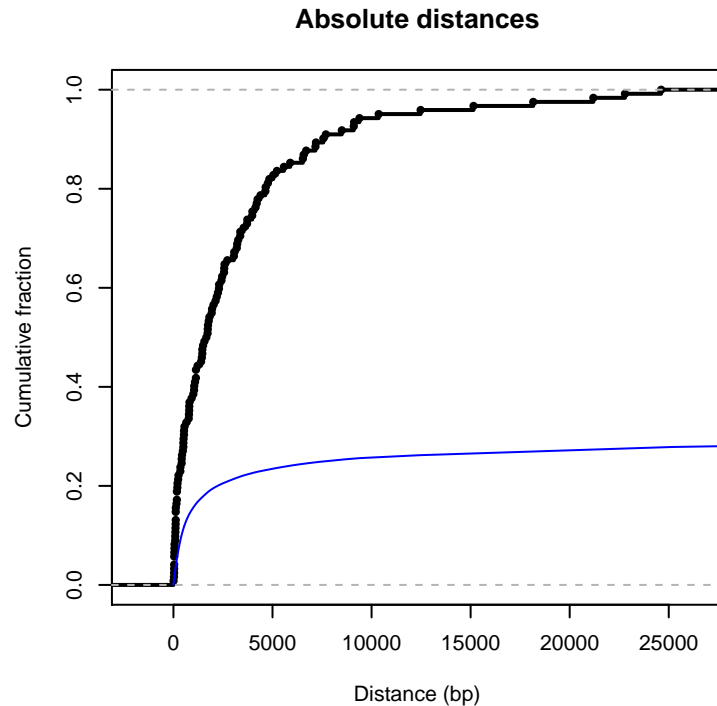
pcontig_042

Query population : 165
Reference population : 408
Relative Ks p-value : 0.145255
Relative ecdf deviation area : 0.0114119
Relative ecdf area correlation : 0.0140099
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0163316
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.55291



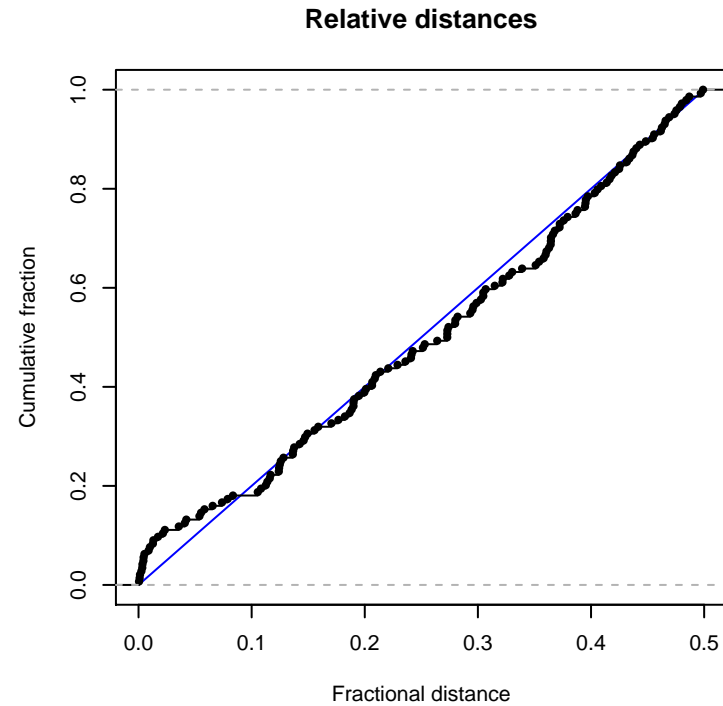
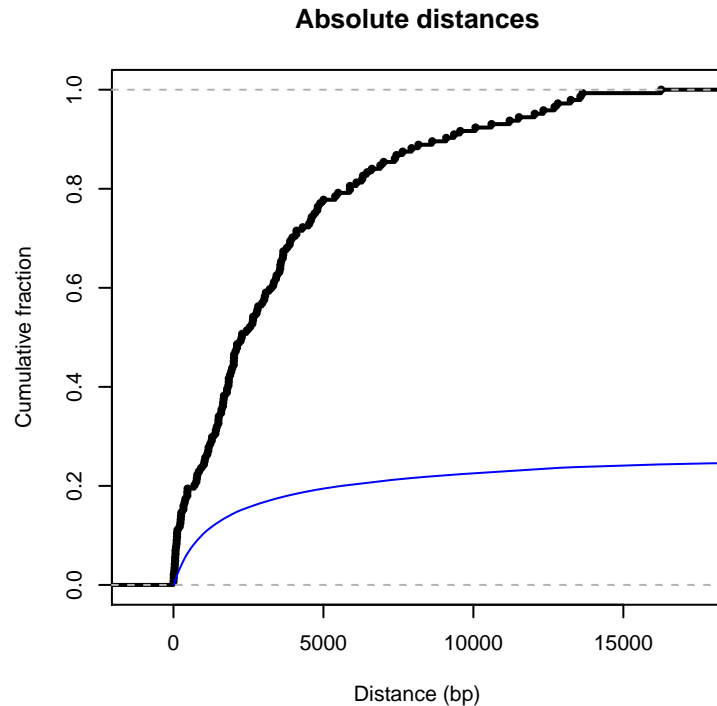
pcontig_043

Query population : 122
Reference population : 632
Relative Ks p-value : 0.60518
Relative ecdf deviation area : 0.0141035
Relative ecdf area correlation : 0.000421635
Relative ecdf deviation area p-value : 0.4
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.47904e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.74358



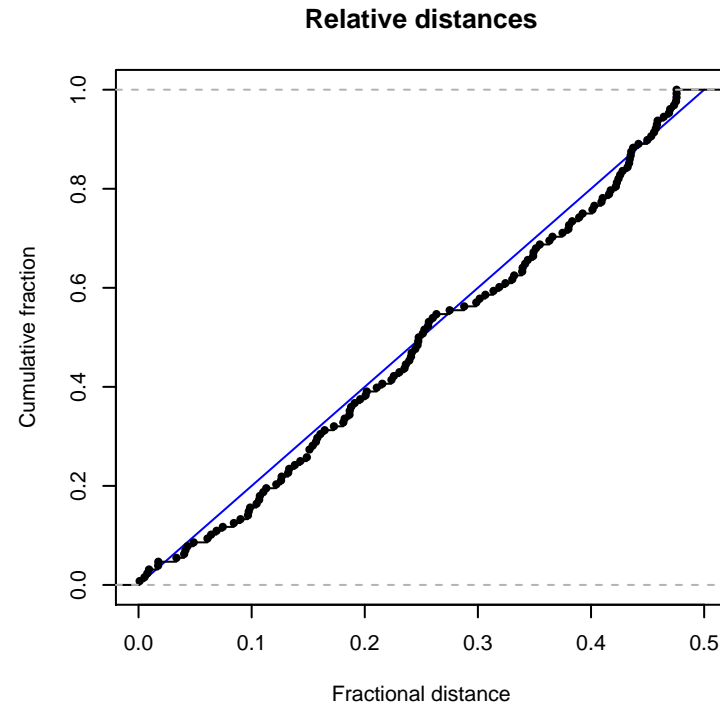
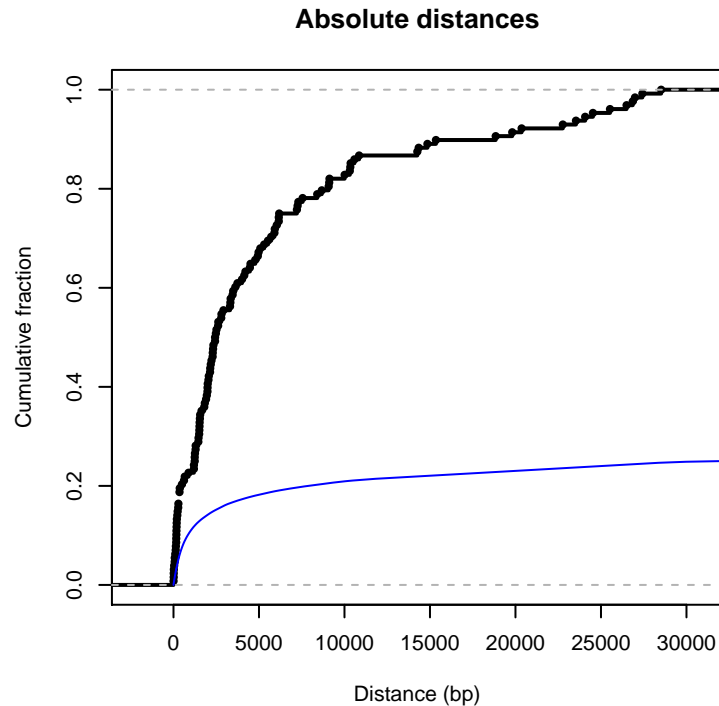
pcontig_044

Query population : 144
Reference population : 309
Relative Ks p-value : 0.584977
Relative ecdf deviation area : 0.0112811
Relative ecdf area correlation : -0.0185903
Relative ecdf deviation area p-value : 0.51
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.19576e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.69391



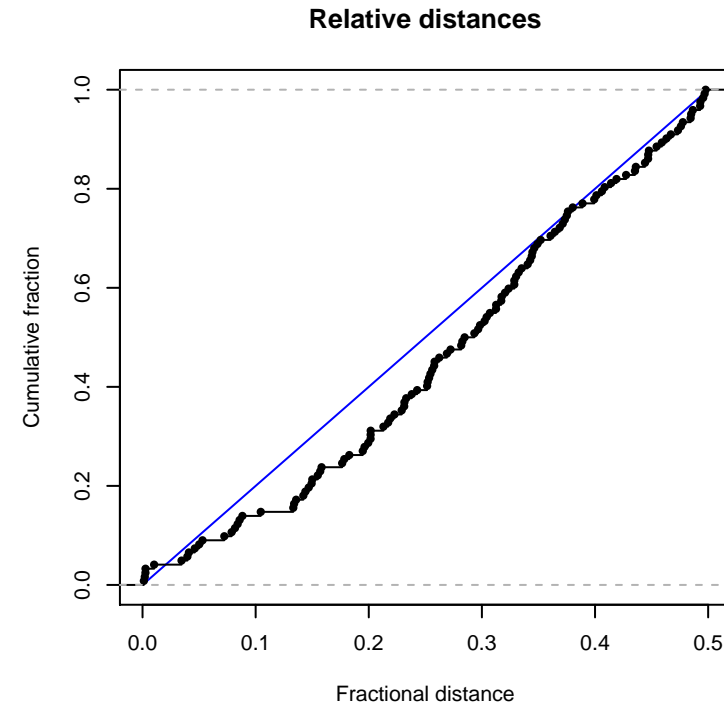
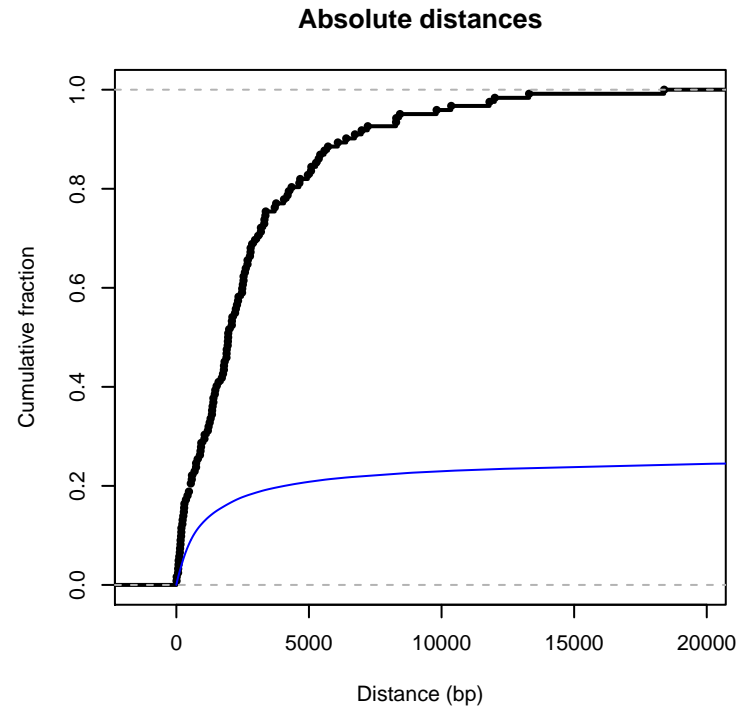
pcontig_045

Query population : 128
Reference population : 381
Relative Ks p-value : 0.733583
Relative ecdf deviation area : 0.0139984
Relative ecdf area correlation : -0.0453121
Relative ecdf deviation area p-value : 0.44
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 : 5.07885e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.63378



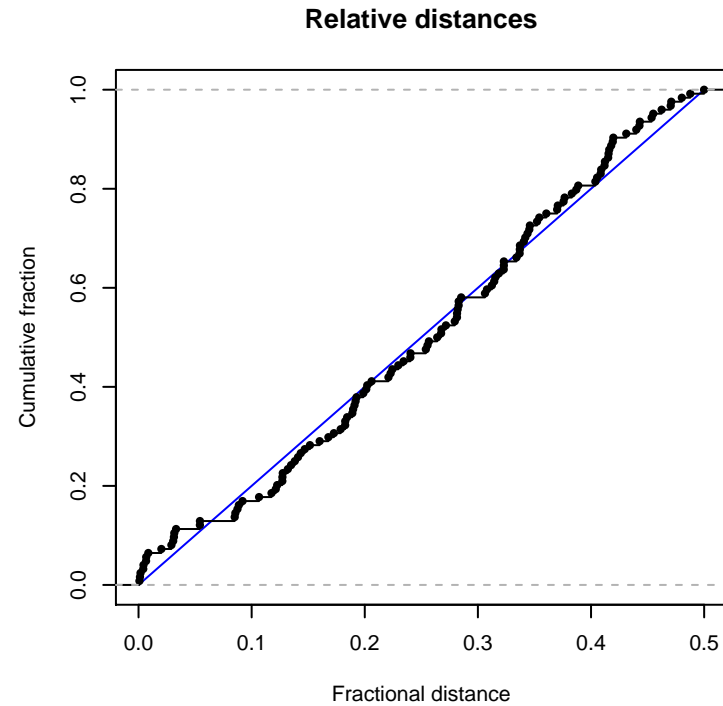
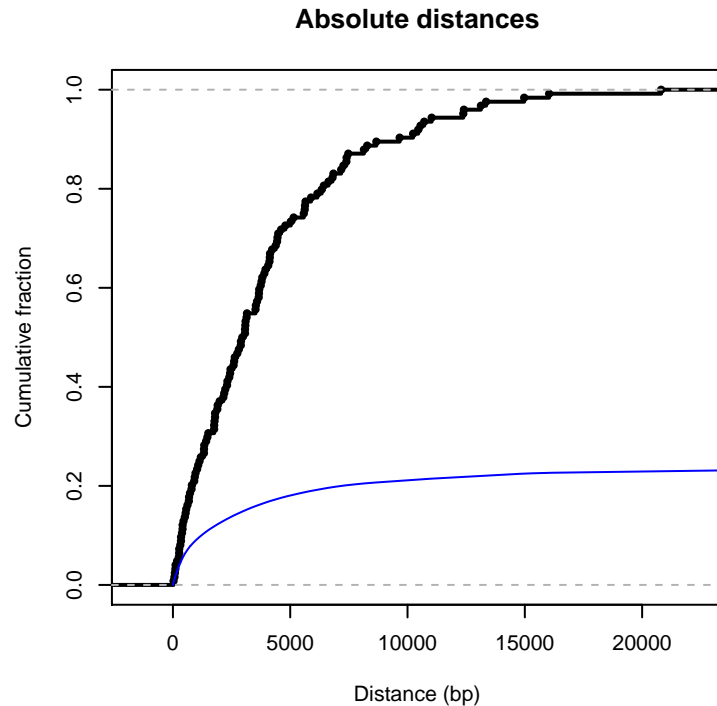
pcontig_046

Query population : 122
Reference population : 404
Relative Ks p-value : 0.0388398
Relative ecdf deviation area : 0.0276892
Relative ecdf area correlation : -0.108402
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 : 6.98219e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.13012



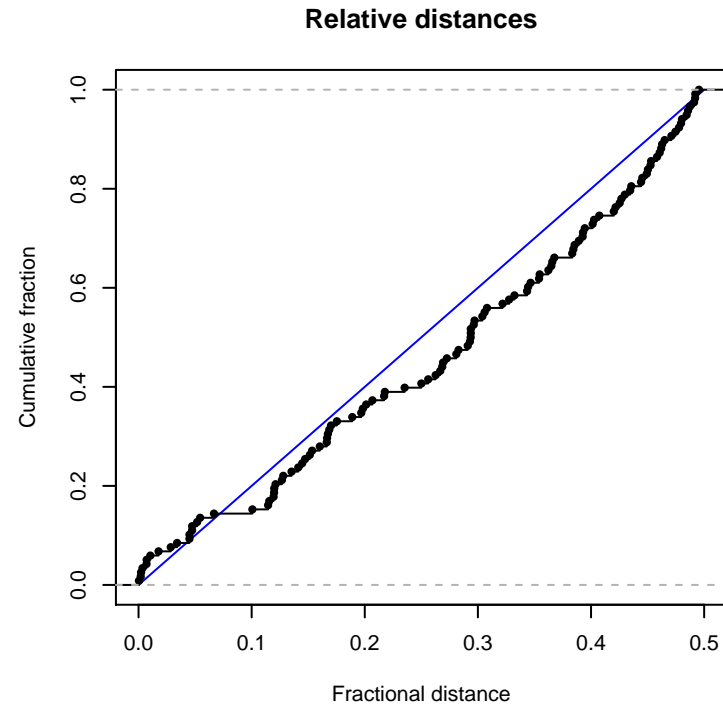
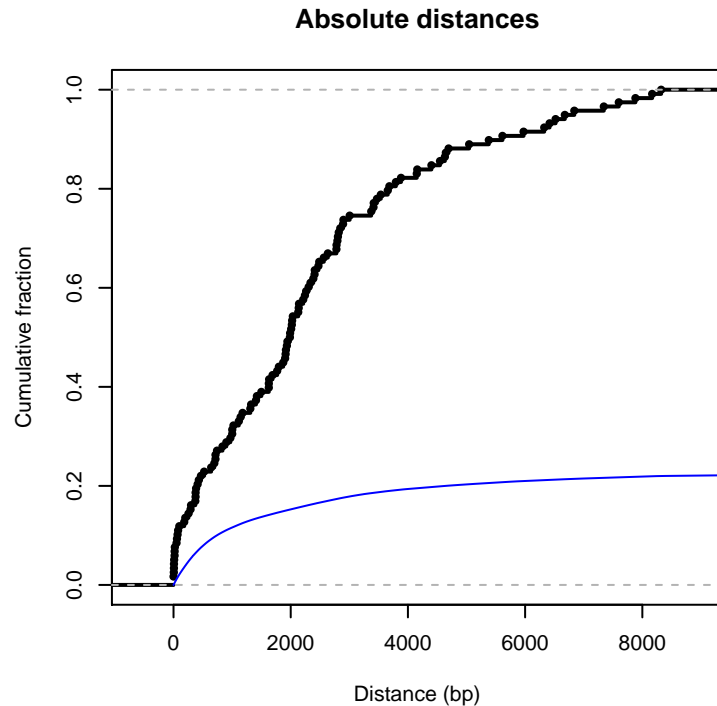
pcontig_047

Query population : 124
Reference population : 313
Relative Ks p-value : 0.693896
Relative ecdf deviation area : 0.0125856
Relative ecdf area correlation : -0.00418344
Relative ecdf deviation area p-value : 0.46
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.43694e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.63628



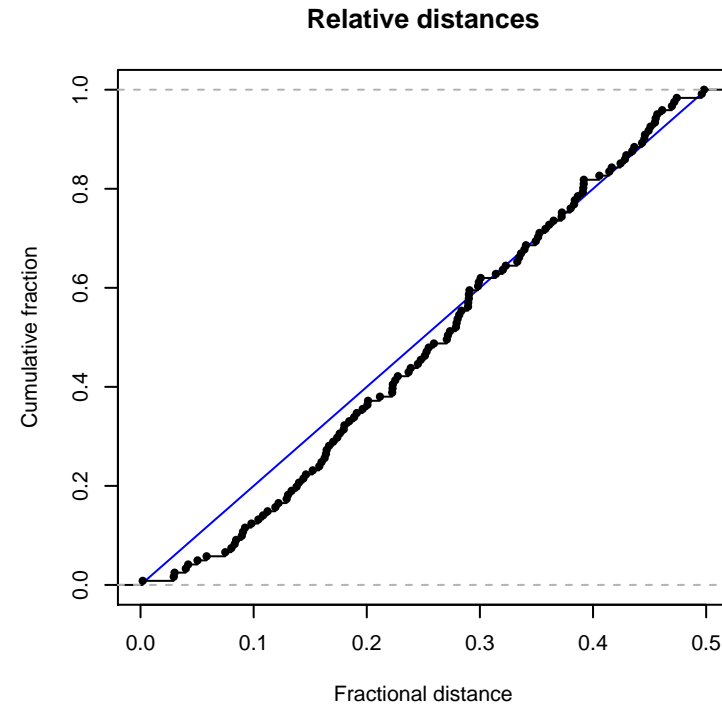
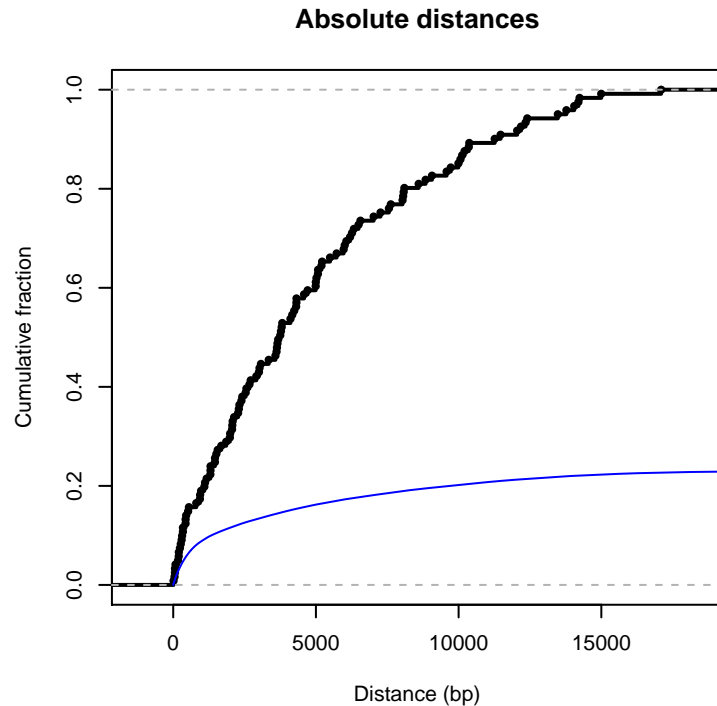
pcontig_048

Query population : 118
Reference population : 382
Relative Ks p-value : 0.11485
Relative ecdf deviation area : 0.0286286
Relative ecdf area correlation : -0.103771
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 : 8.47835e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.11323



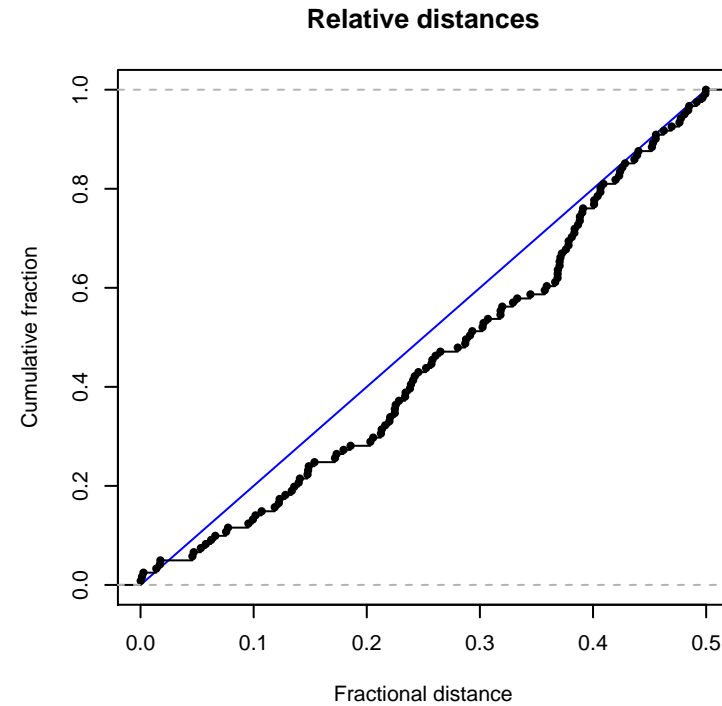
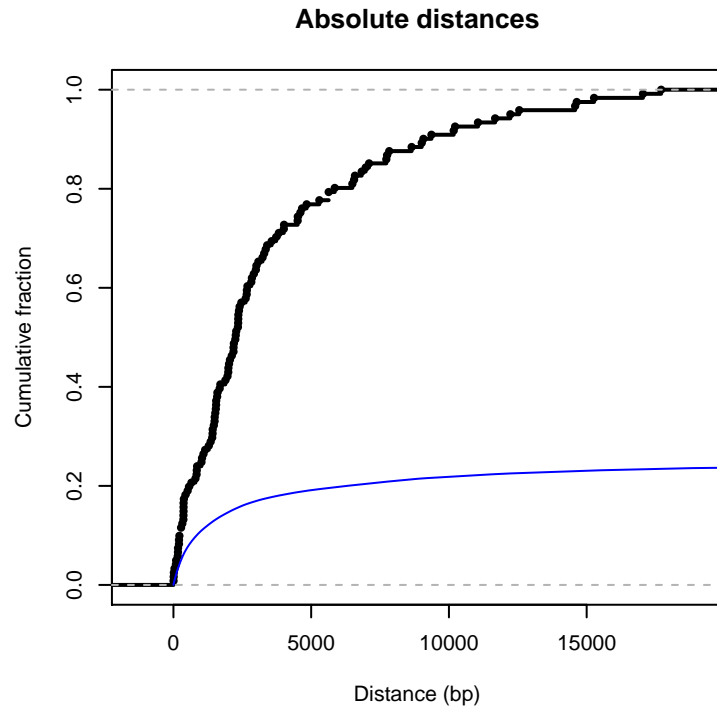
pcontig_049

Query population : 121
Reference population : 336
Relative Ks p-value : 0.230365
Relative ecdf deviation area : 0.0187216
Relative ecdf area correlation : -0.058449
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 : 8.35043e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.10632



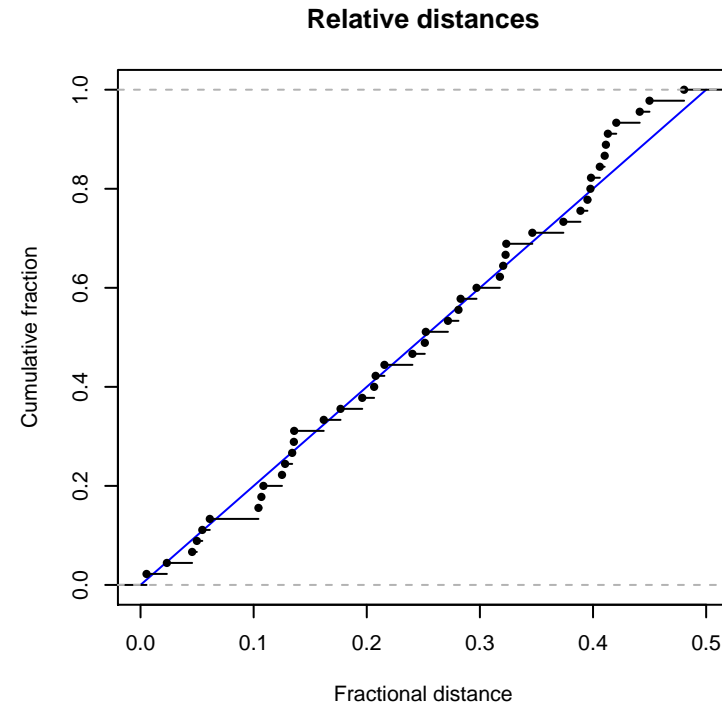
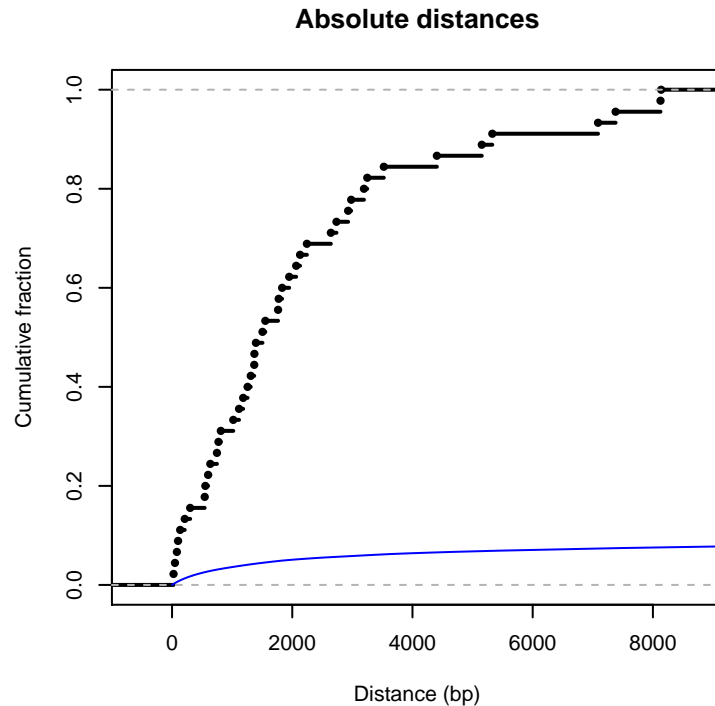
pcontig_050

Query population : 121
Reference population : 417
Relative Ks p-value : 0.0338753
Relative ecdf deviation area : 0.0301981
Relative ecdf area correlation : -0.119879
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 : 6.43519e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.33256



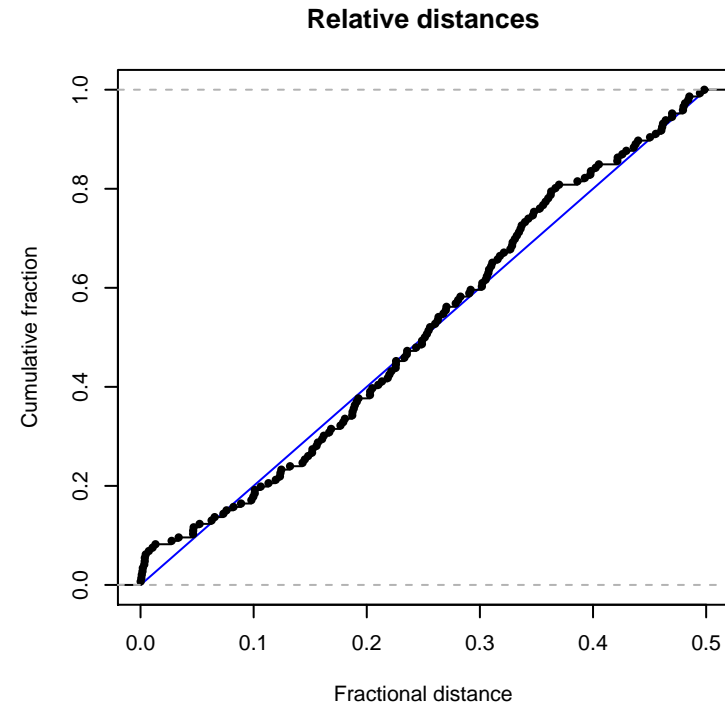
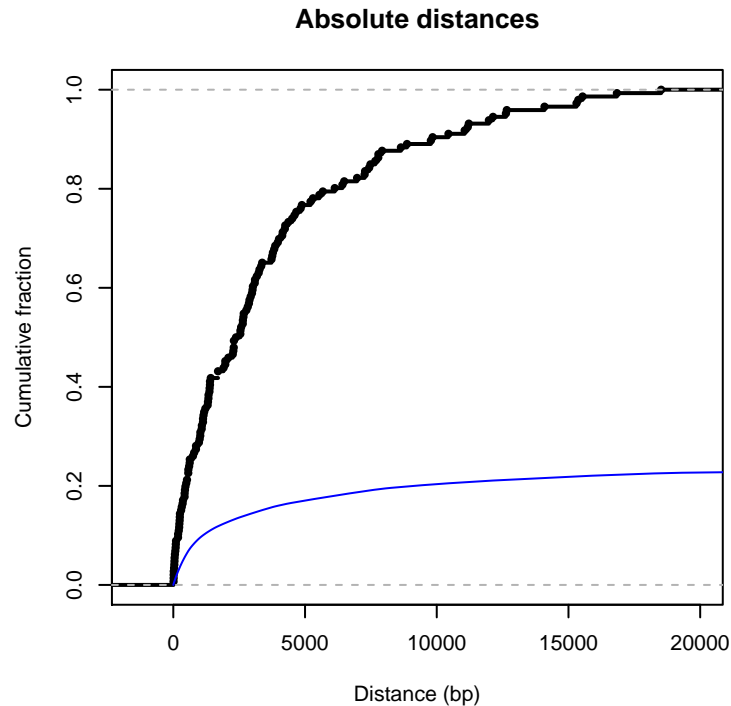
pcontig_051

Query population : 45
Reference population : 134
Relative Ks p-value : 0.805407
Relative ecdf deviation area : 0.0124809
Relative ecdf area correlation : -0.00238183
Relative ecdf deviation area p-value : 0.92
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.8782



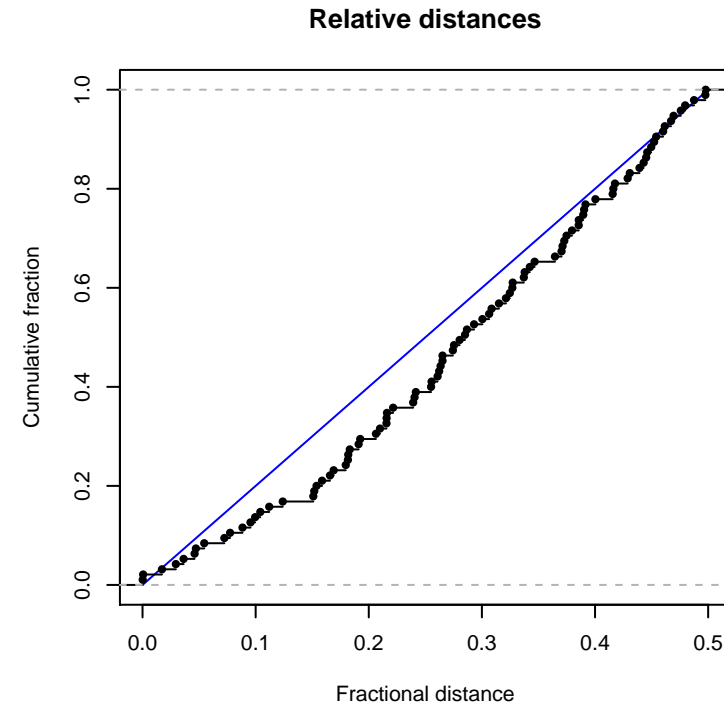
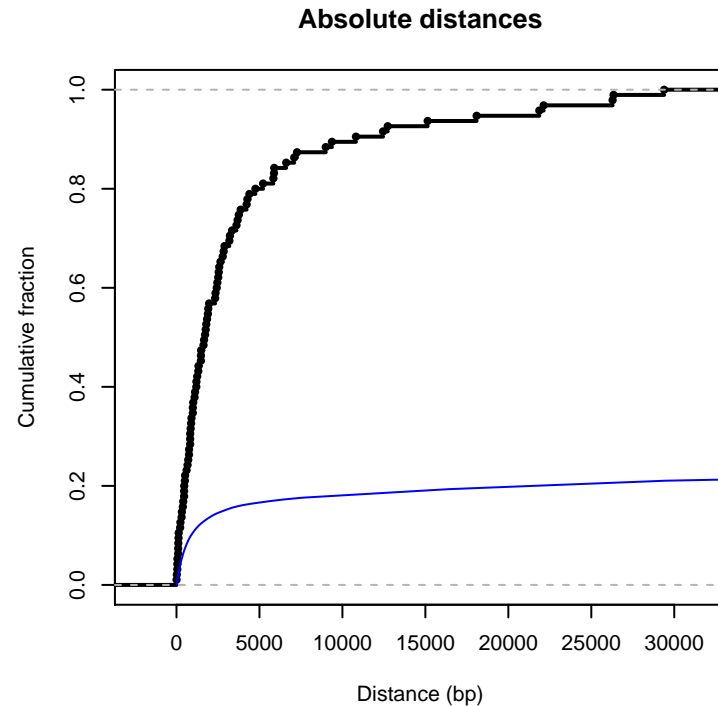
pcontig_052

Query population : 146
Reference population : 303
Relative Ks p-value : 0.500879
Relative ecdf deviation area : 0.0107646
Relative ecdf area correlation : 0.0123033
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 : 9.54792e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.72082



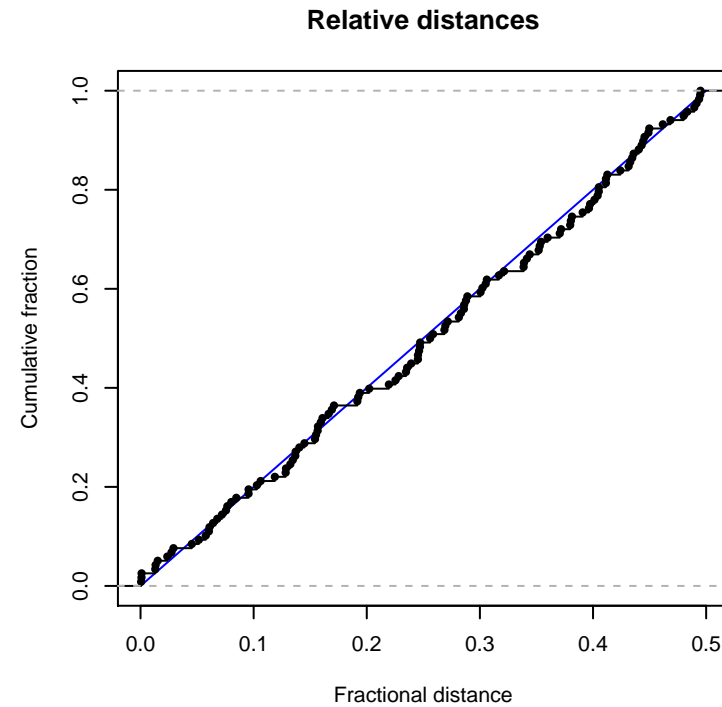
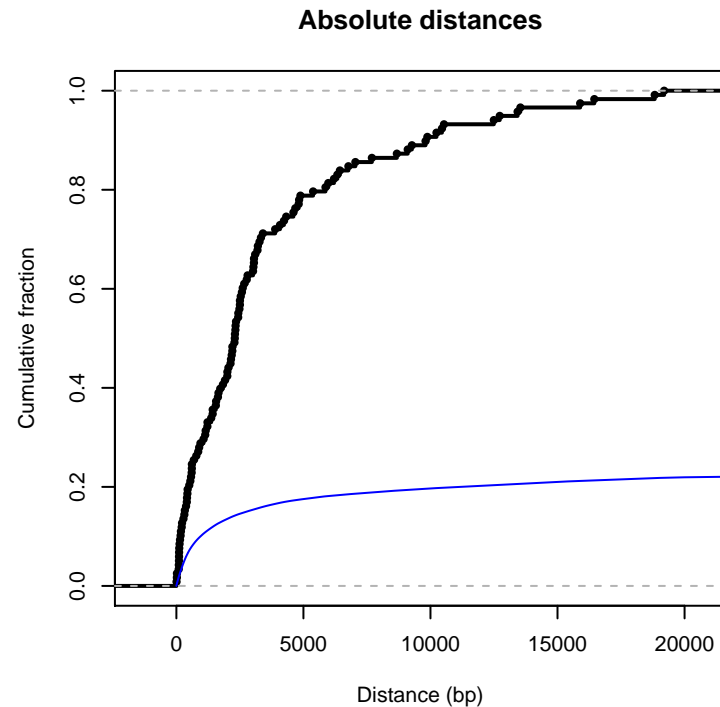
pcontig_054

Query population : 95
Reference population : 378
Relative Ks p-value : 0.0615147
Relative ecdf deviation area : 0.0302697
Relative ecdf area correlation : -0.119988
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 : 3.63596e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.45049



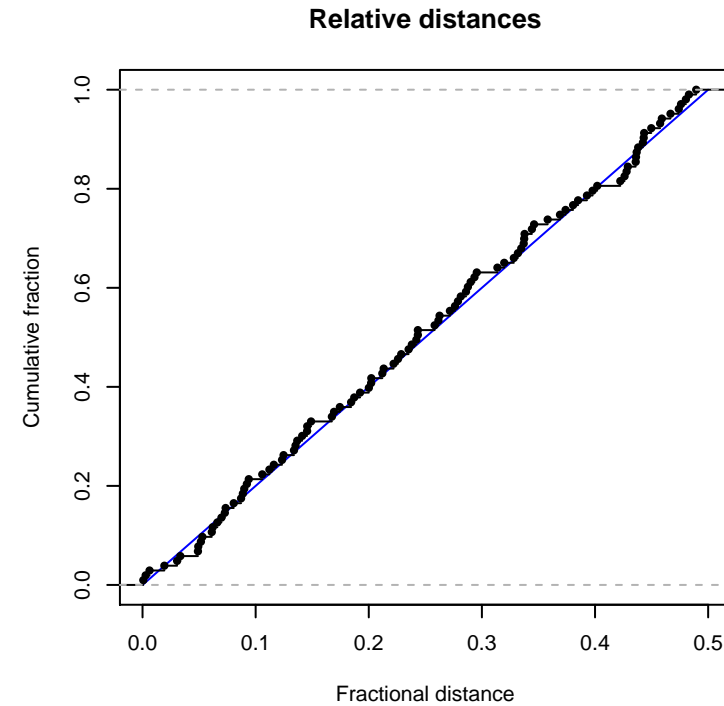
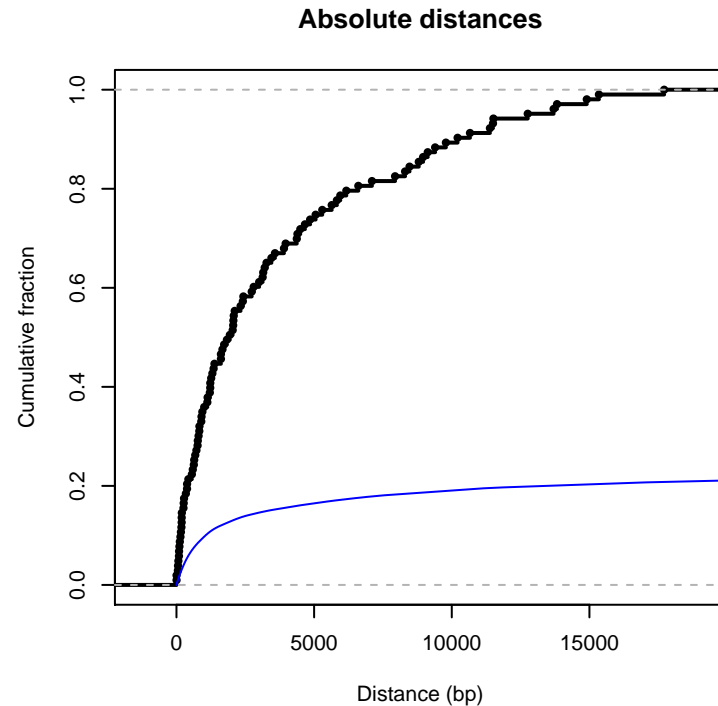
pcontig_055

Query population : 118
Reference population : 375
Relative Ks p-value : 0.967122
Relative ecdf deviation area : 0.00758468
Relative ecdf area correlation : -0.0219173
Relative ecdf deviation area p-value : 0.93
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.38281e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.87794



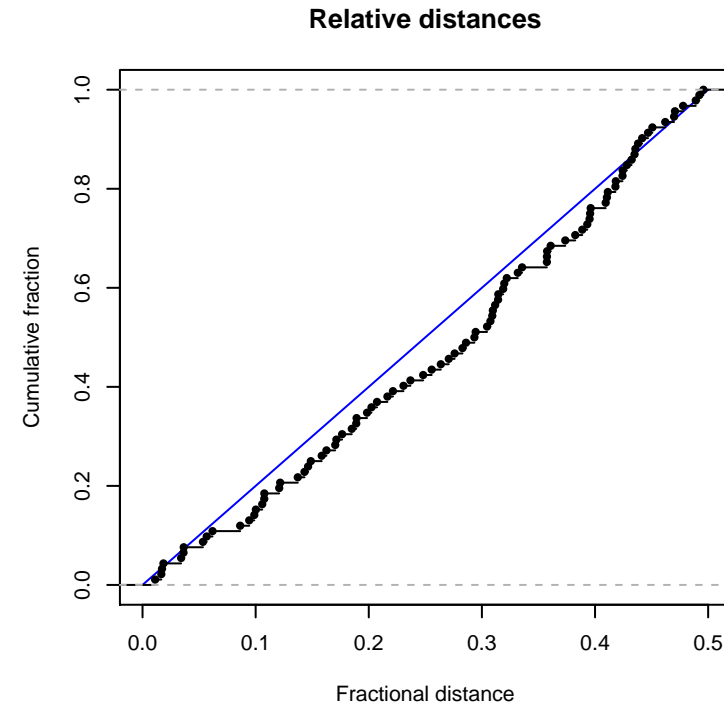
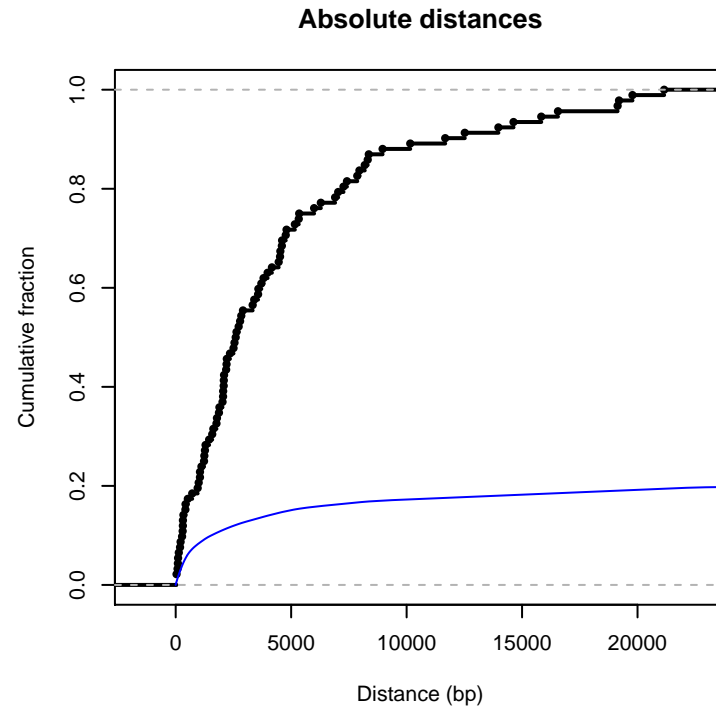
pcontig_056

Query population : 103
Reference population : 329
Relative Ks p-value : 0.996334
Relative ecdf deviation area : 0.00584613
Relative ecdf area correlation : 0.00832094
Relative ecdf deviation area p-value : 0.99
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.03584e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.19263



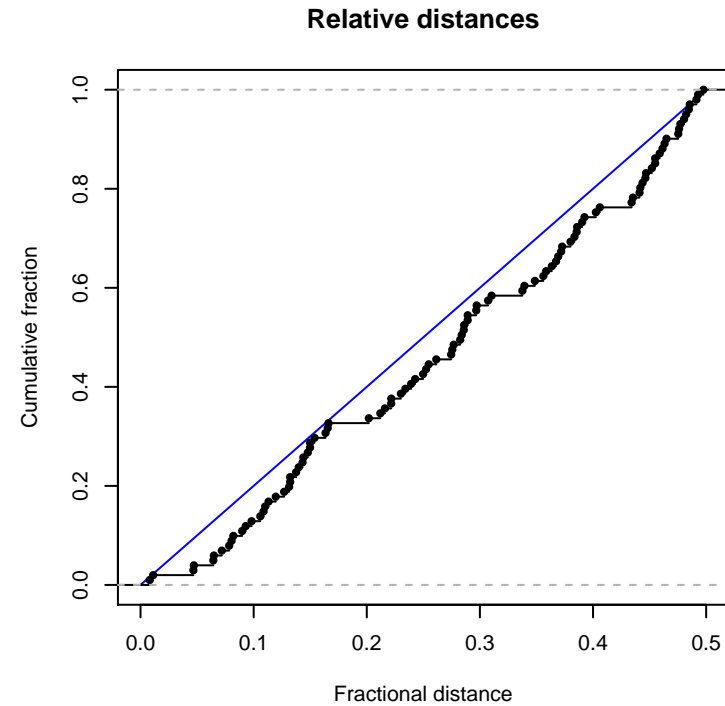
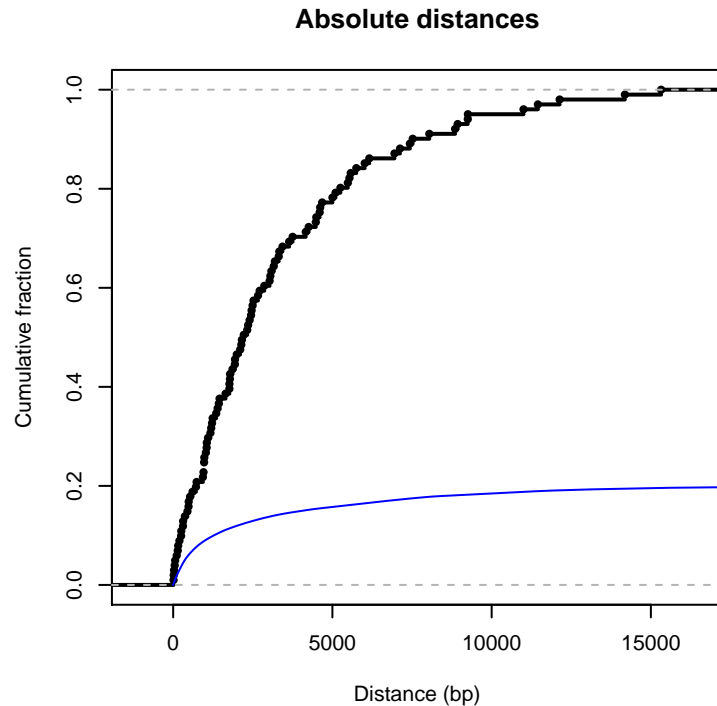
pcontig_057

Query population : 92
Reference population : 305
Relative Ks p-value : 0.316004
Relative ecdf deviation area : 0.0222895
Relative ecdf area correlation : -0.0863998
Relative ecdf deviation area p-value : 0.2
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 : 5.12881e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.27623



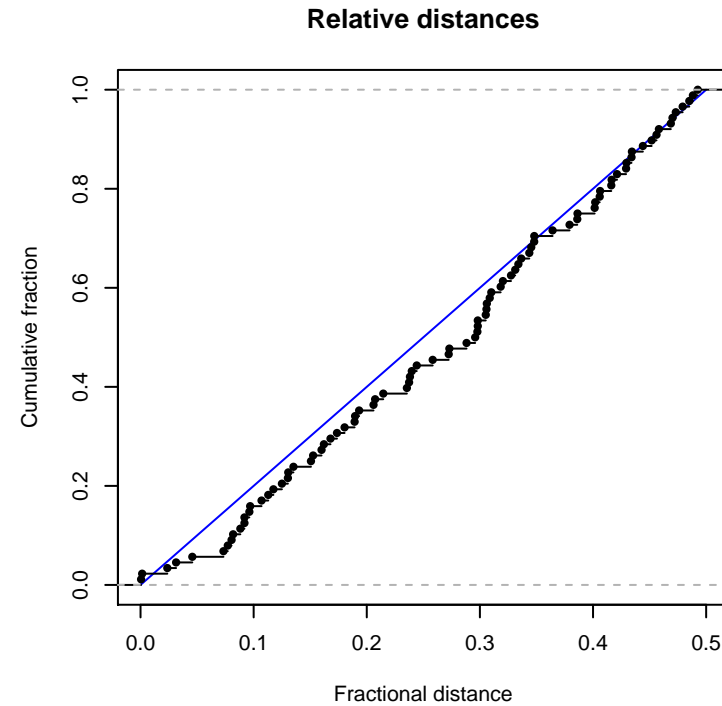
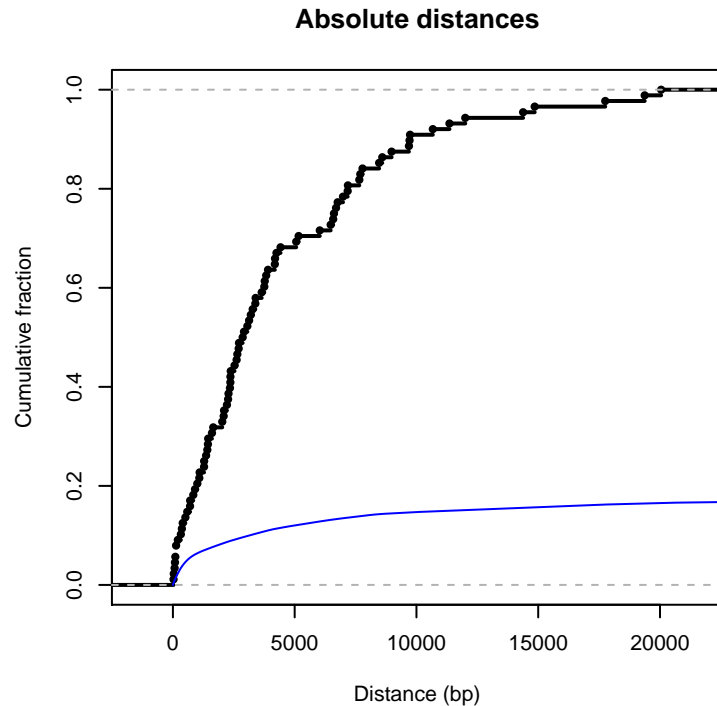
pcontig_058

Query population : 101
Reference population : 308
Relative Ks p-value : 0.208282
Relative ecdf deviation area : 0.0294987
Relative ecdf area correlation : -0.117825
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 : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.15636e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.89462



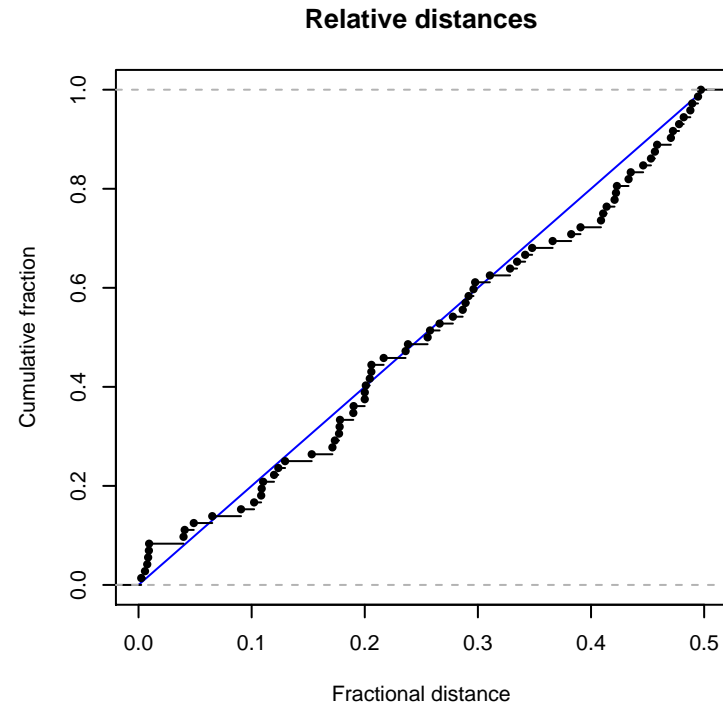
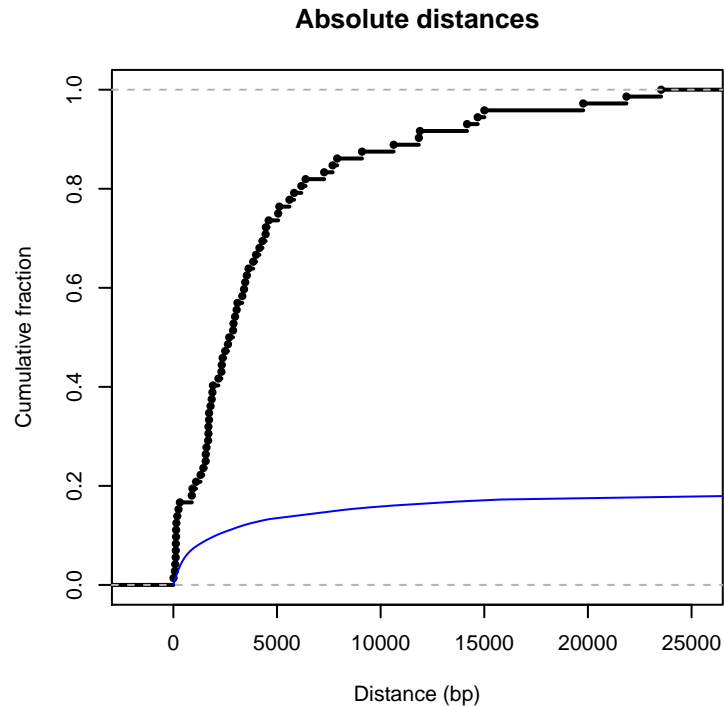
pcontig_059

Query population : 88
Reference population : 235
Relative Ks p-value : 0.287658
Relative ecdf deviation area : 0.0205315
Relative ecdf area correlation : -0.0787295
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.2487e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.54883



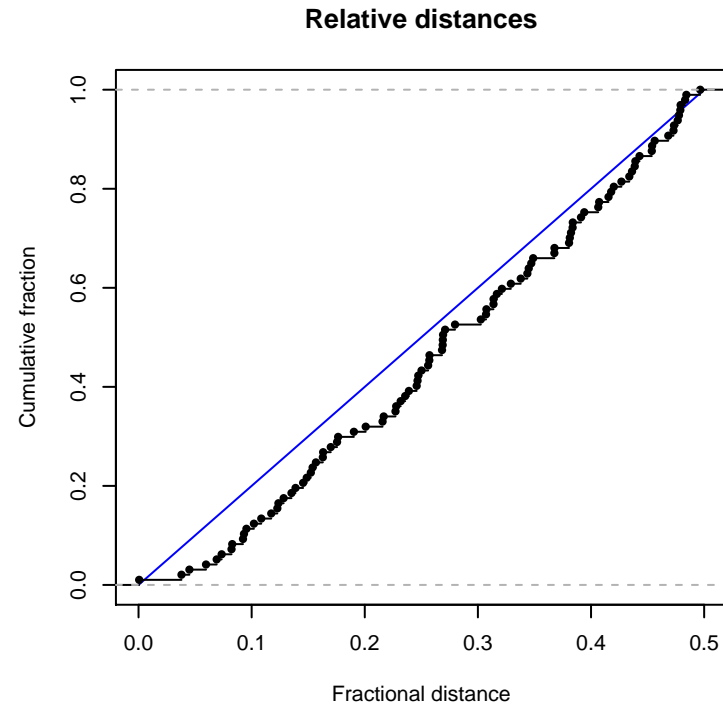
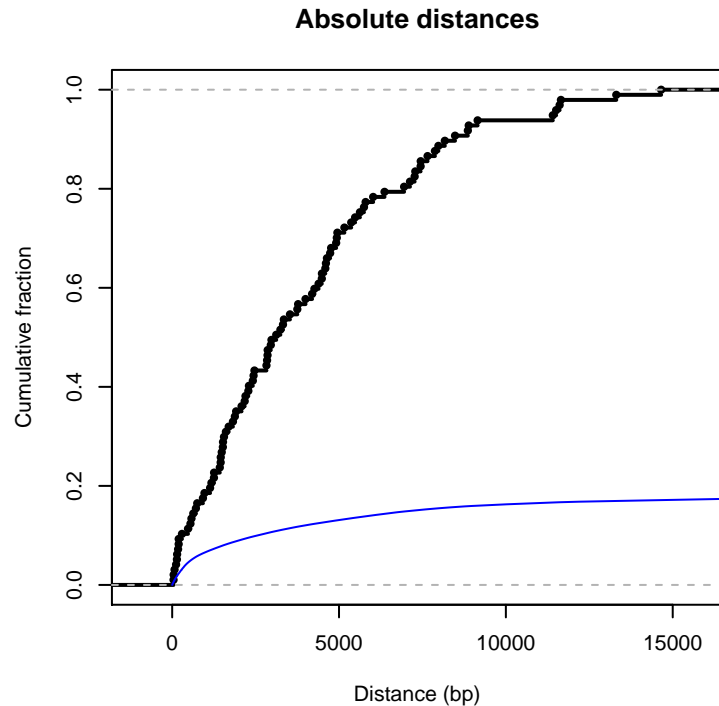
pcontig_060

Query population : 72
Reference population : 261
Relative Ks p-value : 0.498922
Relative ecdf deviation area : 0.0150194
Relative ecdf area correlation : -0.0457805
Relative ecdf deviation area p-value : 0.59
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 : 2.69363e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.16608



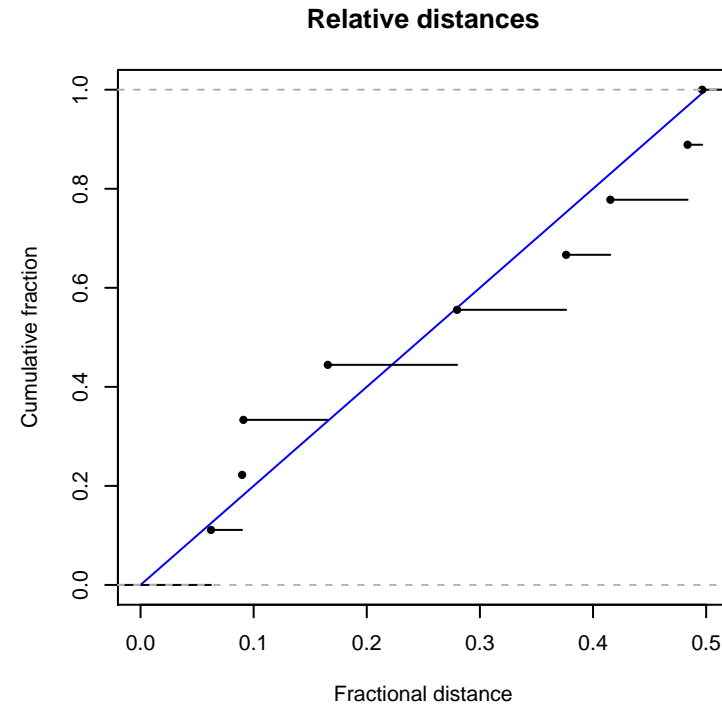
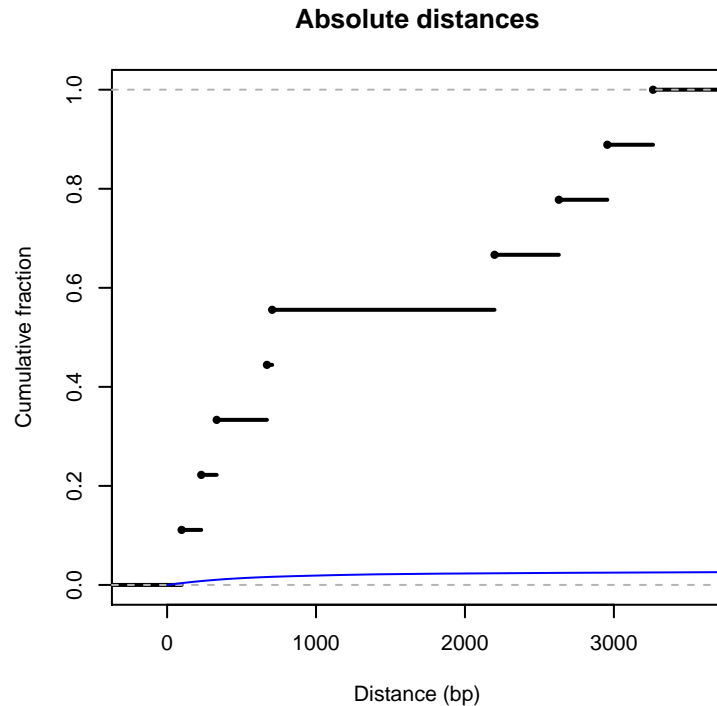
pcontig_062

Query population : 97
Reference population : 249
Relative Ks p-value : 0.148049
Relative ecdf deviation area : 0.0307884
Relative ecdf area correlation : -0.121279
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 : 0.09
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.00449e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.48092



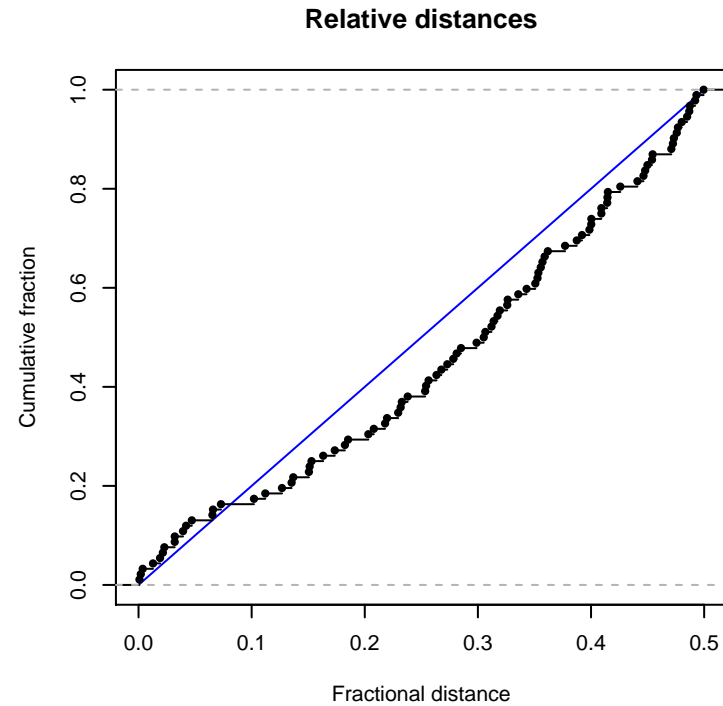
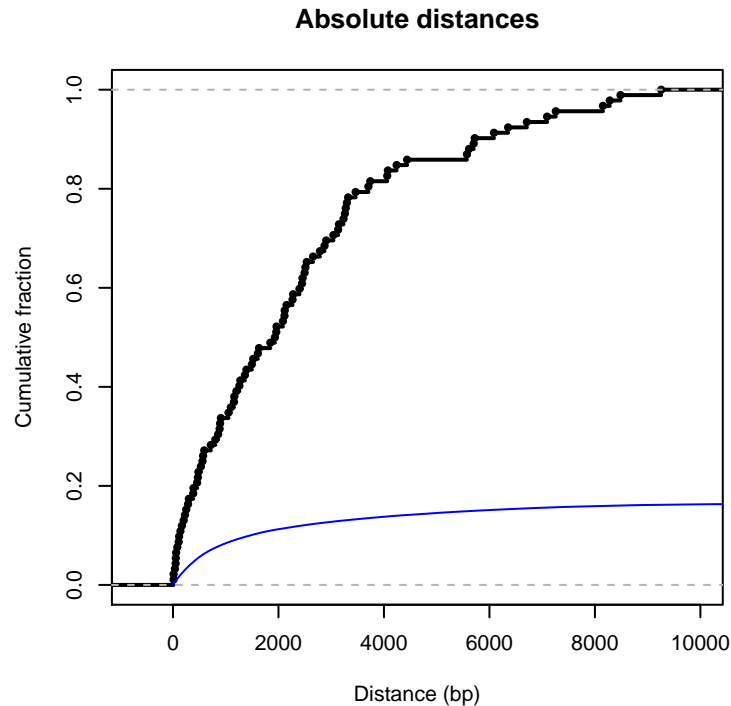
pcontig_063

Query population : 9
Reference population : 69
Relative Ks p-value : 0.813014
Relative ecdf deviation area : 0.0406735
Relative ecdf area correlation : -0.0933285
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 : 4.39824e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 33.3874



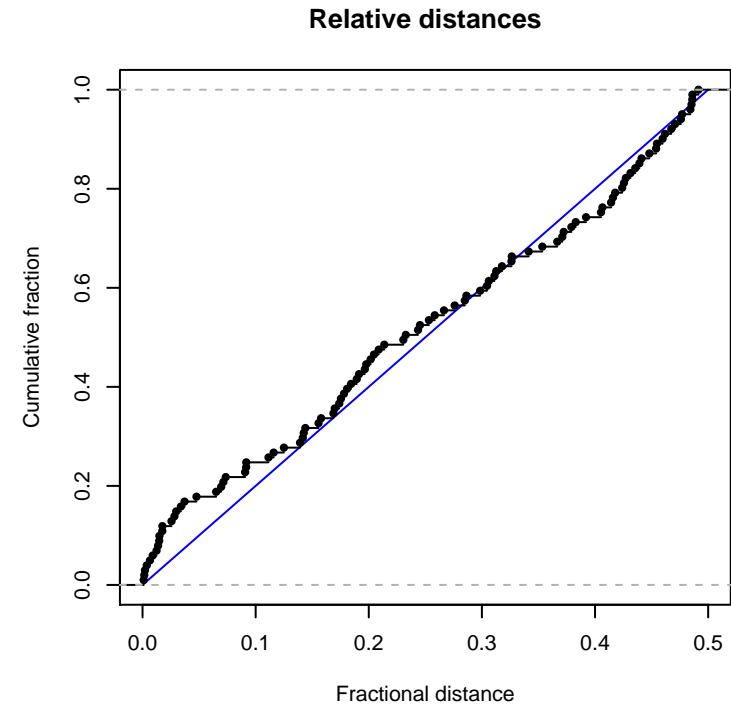
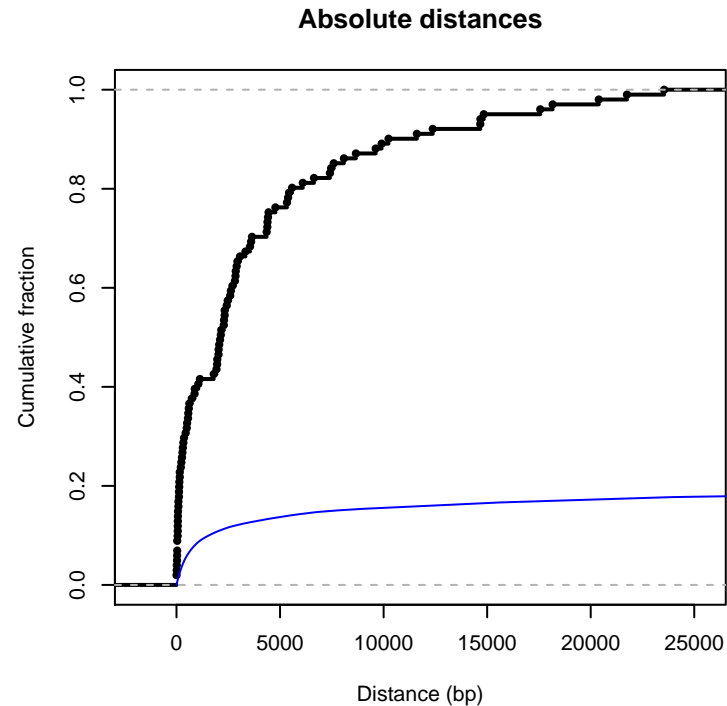
pcontig_064

Query population : 92
Reference population : 273
Relative Ks p-value : 0.0973305
Relative ecdf deviation area : 0.0332461
Relative ecdf area correlation : -0.120423
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 : 2.28628e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.38403



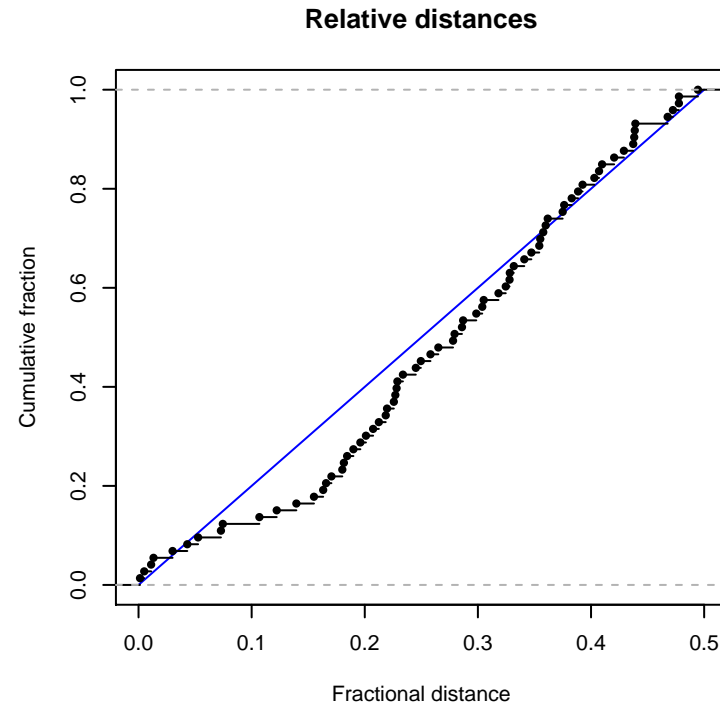
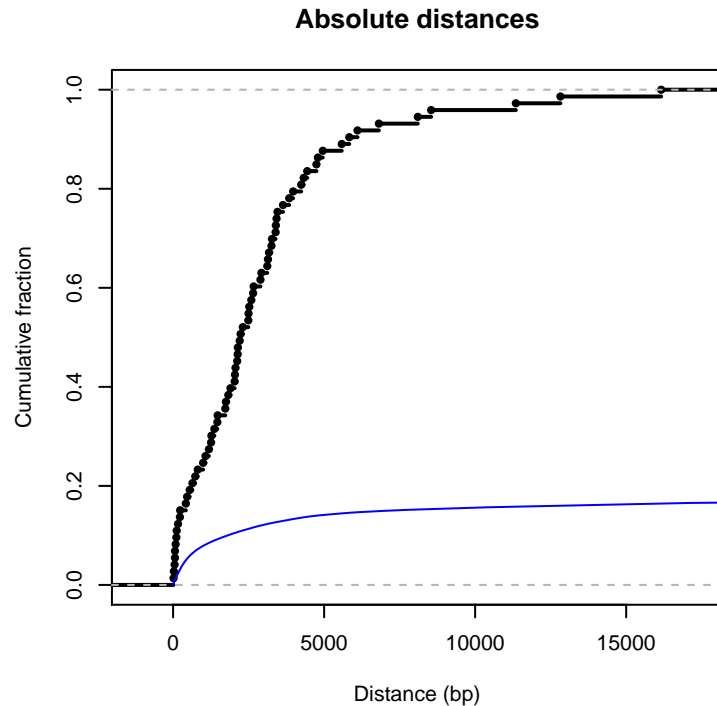
pcontig_065

Query population : 101
Reference population : 320
Relative Ks p-value : 0.334063
Relative ecdf deviation area : 0.0163281
Relative ecdf area correlation : 0.0232229
Relative ecdf deviation area p-value : 0.38
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.06514



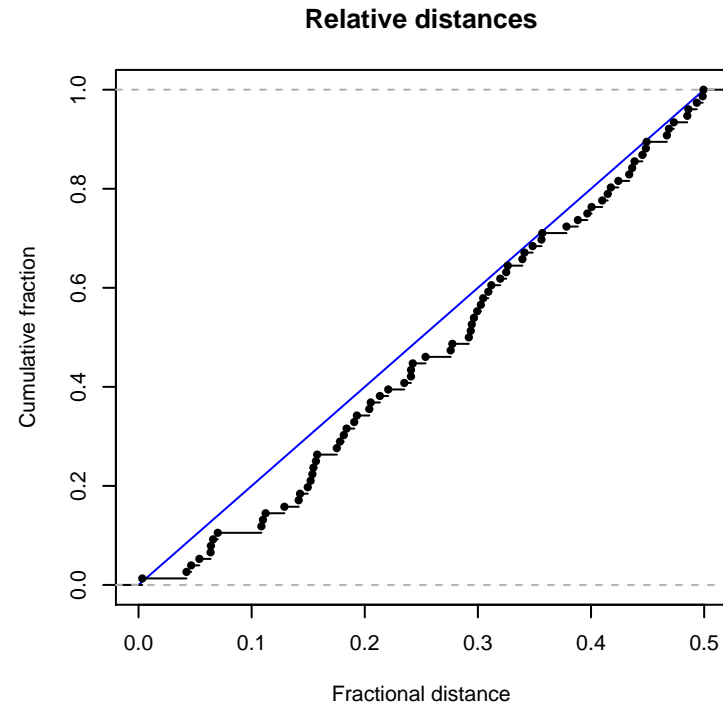
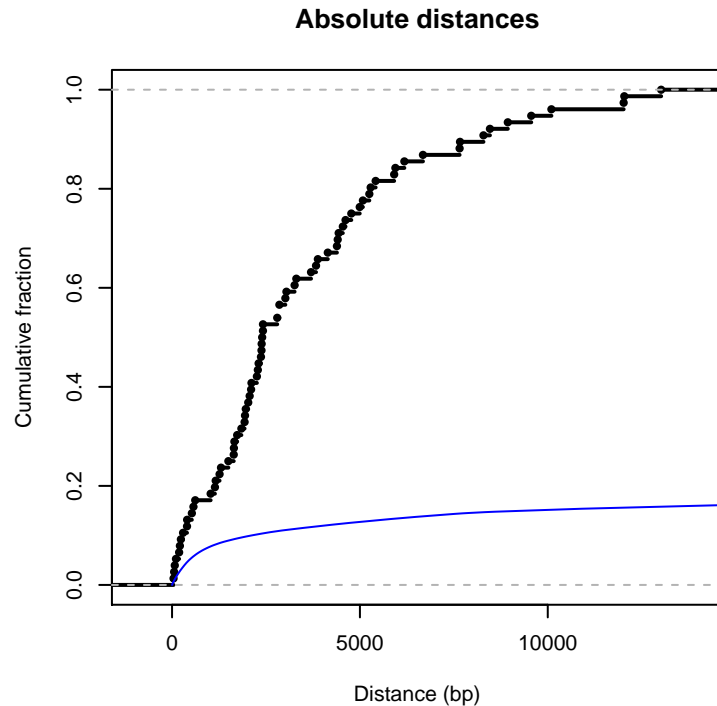
pcontig_066

Query population : 73
Reference population : 263
Relative Ks p-value : 0.0723559
Relative ecdf deviation area : 0.0254396
Relative ecdf area correlation : -0.0823388
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 : 1.11022e-16
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.12531



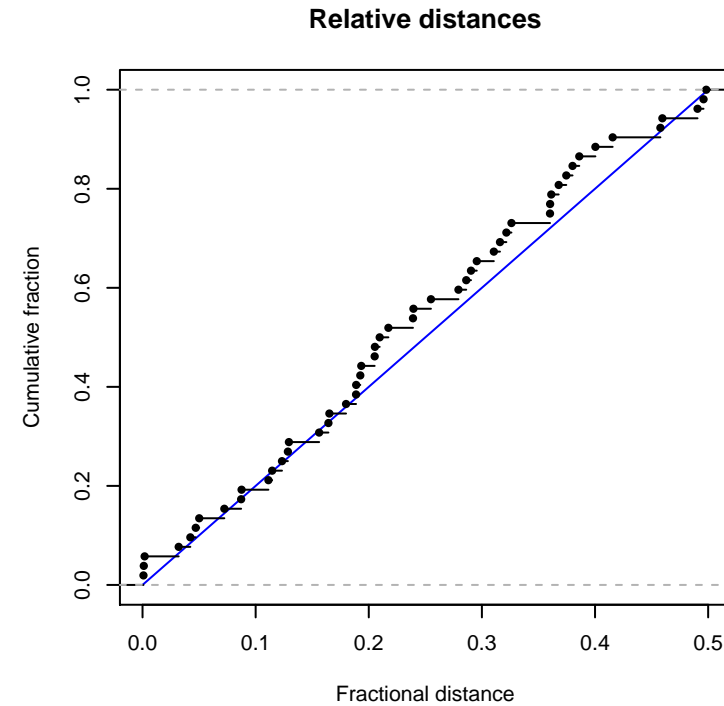
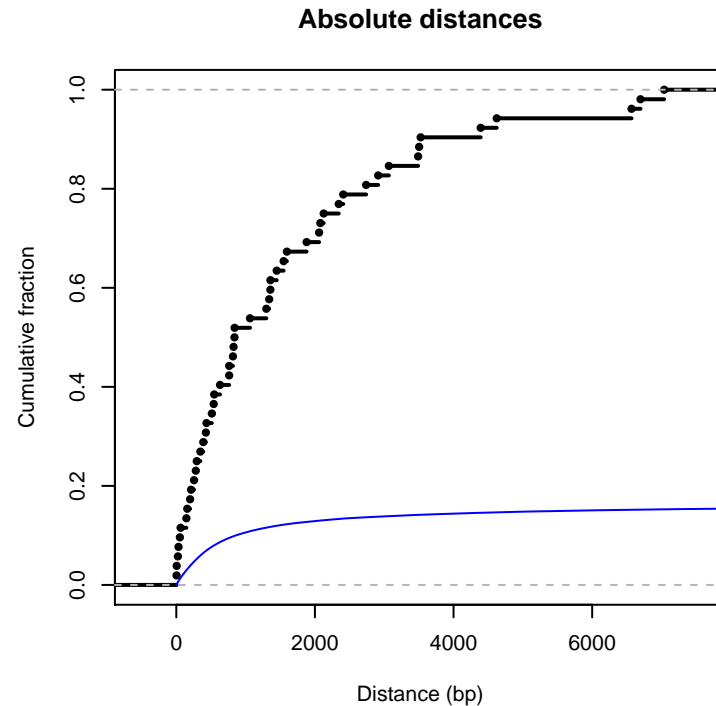
pcontig_067

Query population : 76
Reference population : 294
Relative Ks p-value : 0.169068
Relative ecdf deviation area : 0.0262681
Relative ecdf area correlation : -0.103271
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 : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.45545e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.90067



pcontig_068

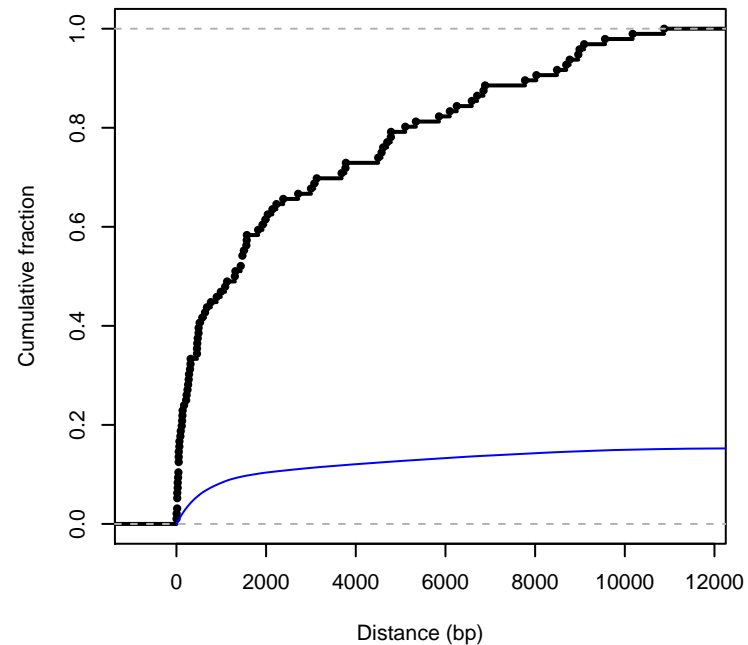
Query population : 52
Reference population : 406
Relative Ks p-value : 0.721425
Relative ecdf deviation area : 0.0165002
Relative ecdf area correlation : 0.0566463
Relative ecdf deviation area p-value : 0.68
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.73677



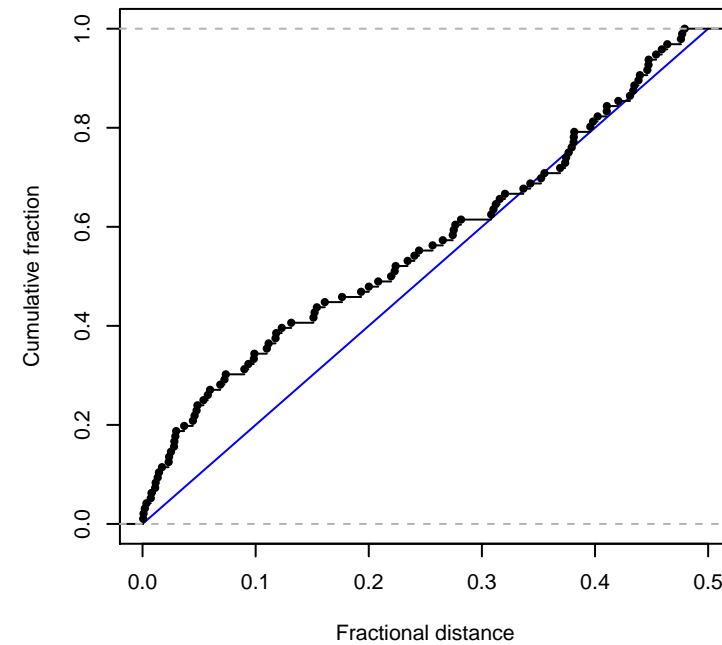
pcontig_069

Query population : 96
Reference population : 287
Relative Ks p-value : 0.0178488
Relative ecdf deviation area : 0.0303545
Relative ecdf area correlation : 0.119711
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 : 6.09509

Absolute distances

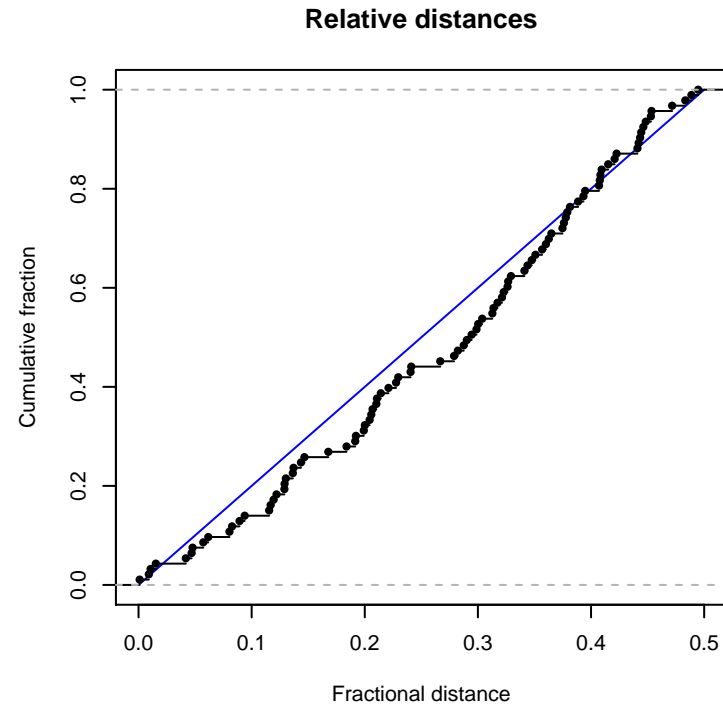
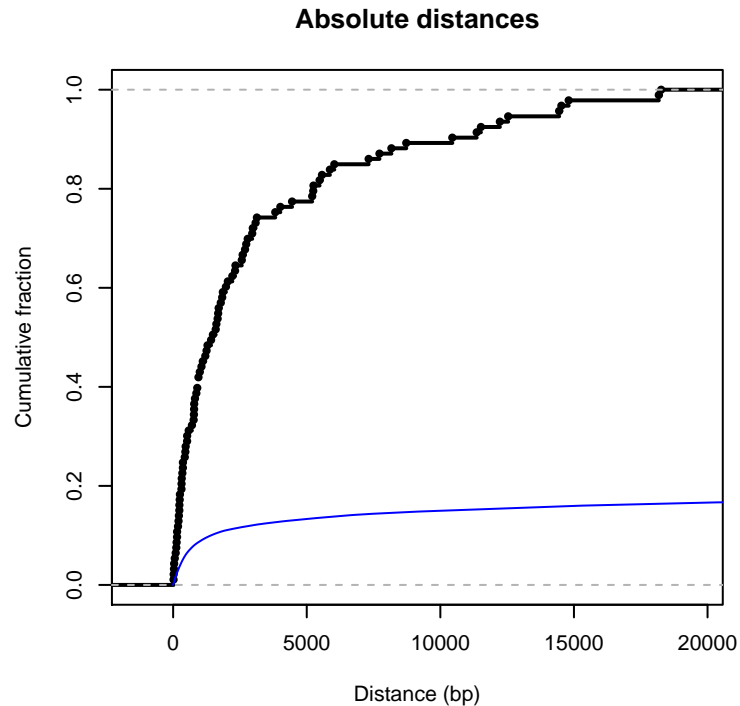


Relative distances



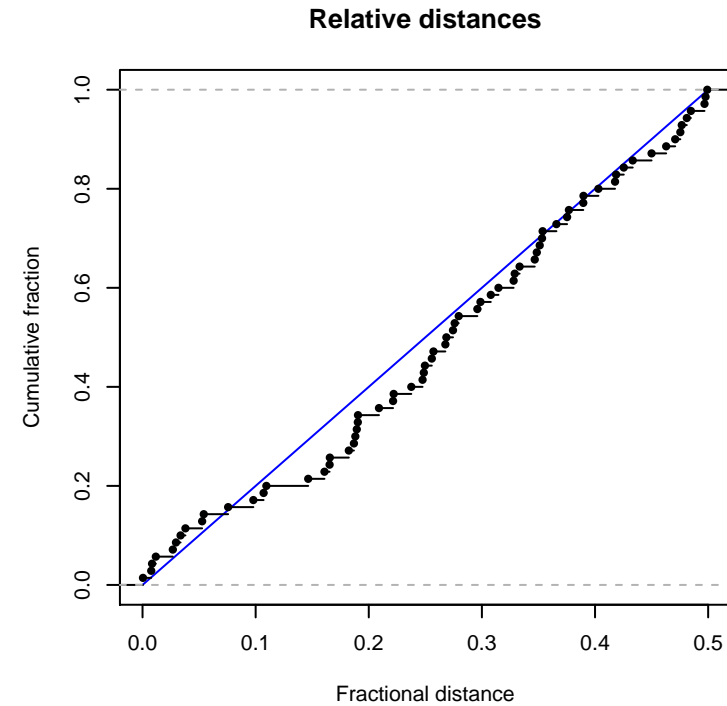
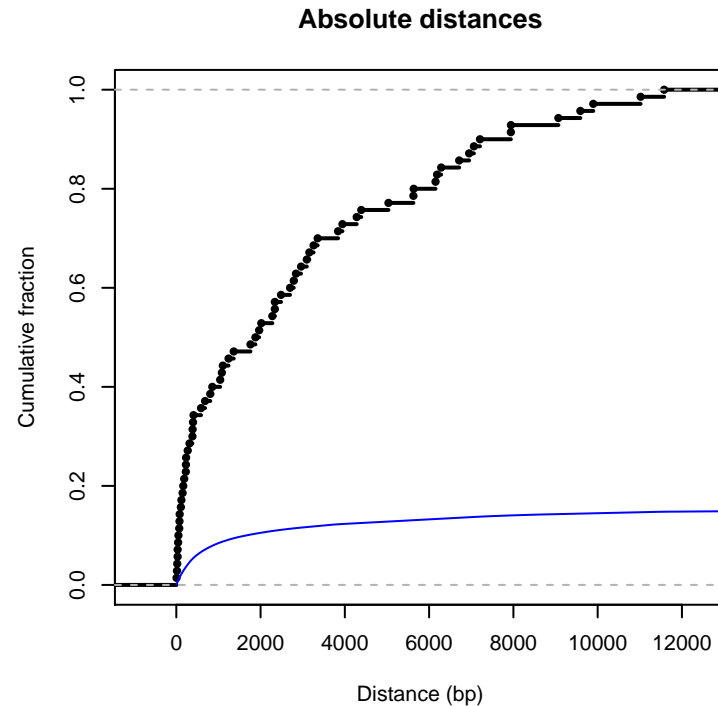
pcontig_070

Query population : 93
Reference population : 332
Relative Ks p-value : 0.228101
Relative ecdf deviation area : 0.0227972
Relative ecdf area correlation : -0.0786125
Relative ecdf deviation area p-value : 0.21
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.65104e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.14916



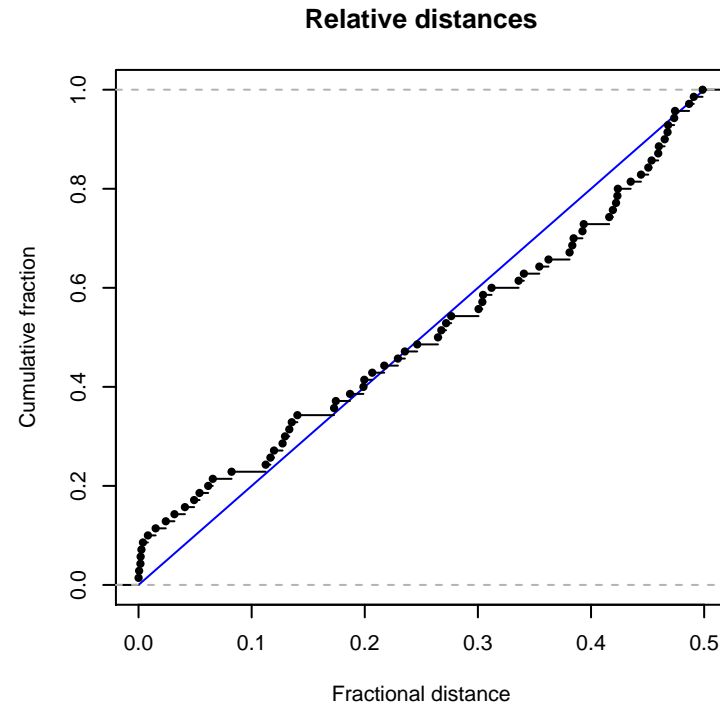
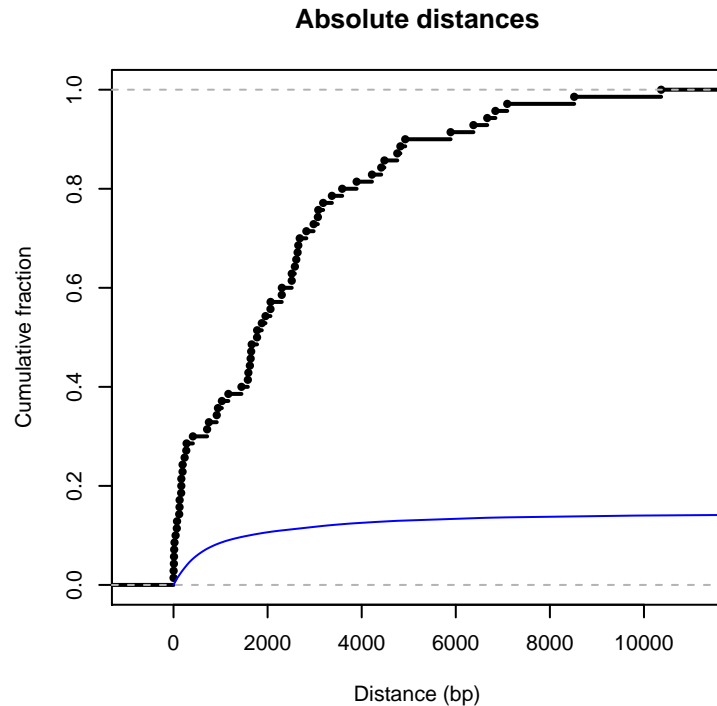
pcontig_072

Query population : 70
Reference population : 354
Relative Ks p-value : 0.366598
Relative ecdf deviation area : 0.0201177
Relative ecdf area correlation : -0.0677421
Relative ecdf deviation area p-value : 0.35
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.79216



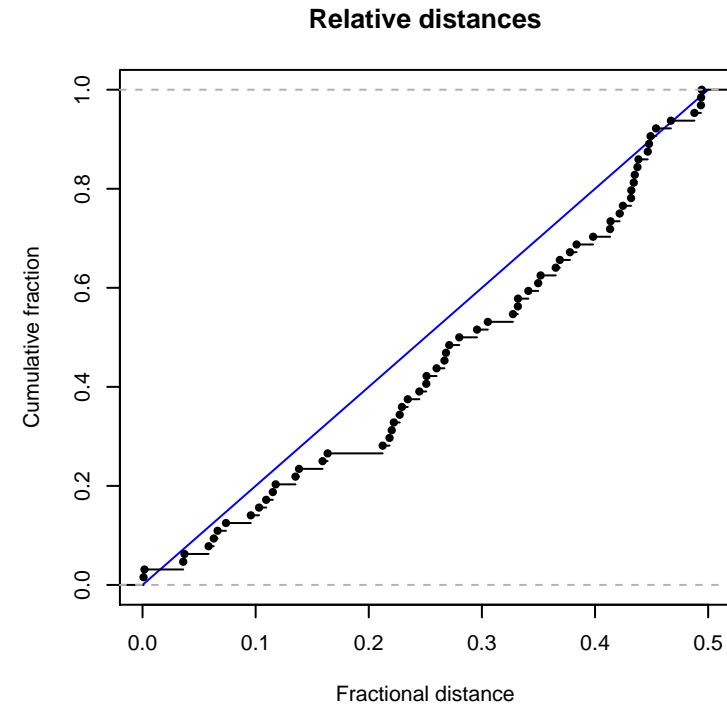
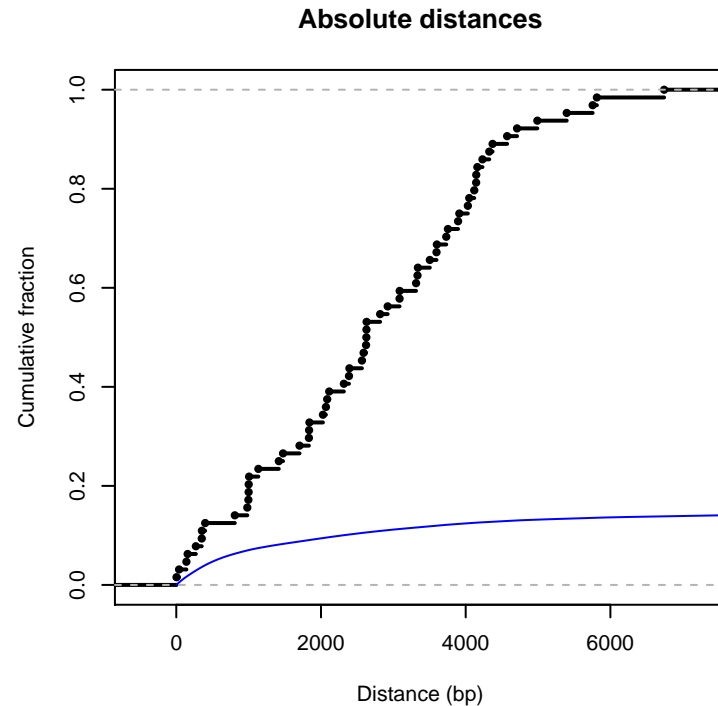
pcontig_073

Query population : 70
Reference population : 322
Relative Ks p-value : 0.396877
Relative ecdf deviation area : 0.0212022
Relative ecdf area correlation : -0.0164681
Relative ecdf deviation area p-value : 0.3
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.10703e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.05617



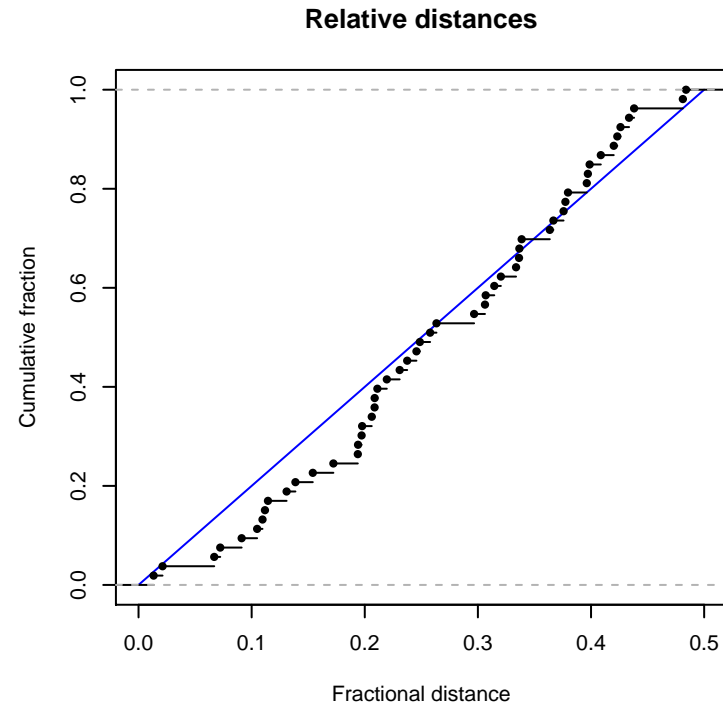
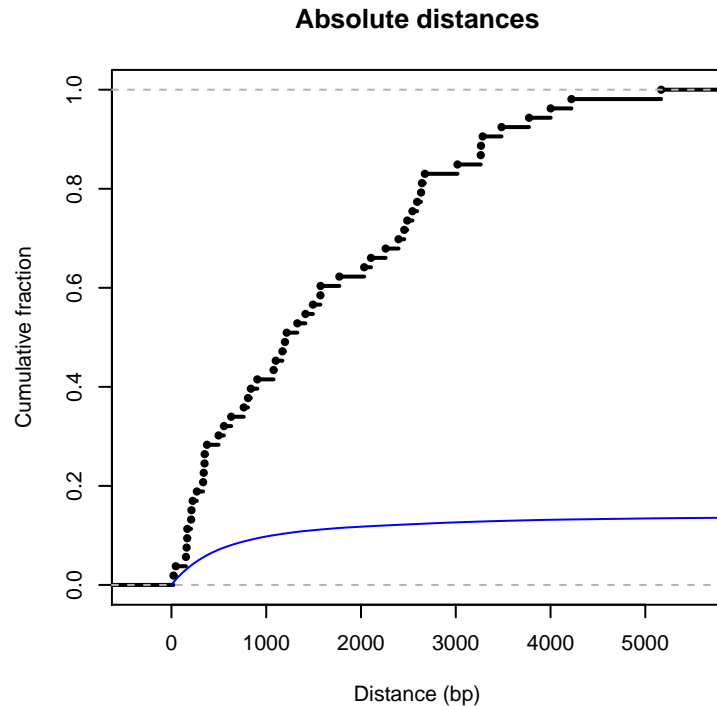
pcontig_074

Query population : 64
Reference population : 225
Relative Ks p-value : 0.0702887
Relative ecdf deviation area : 0.0359345
Relative ecdf area correlation : -0.136052
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000342728
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.89828



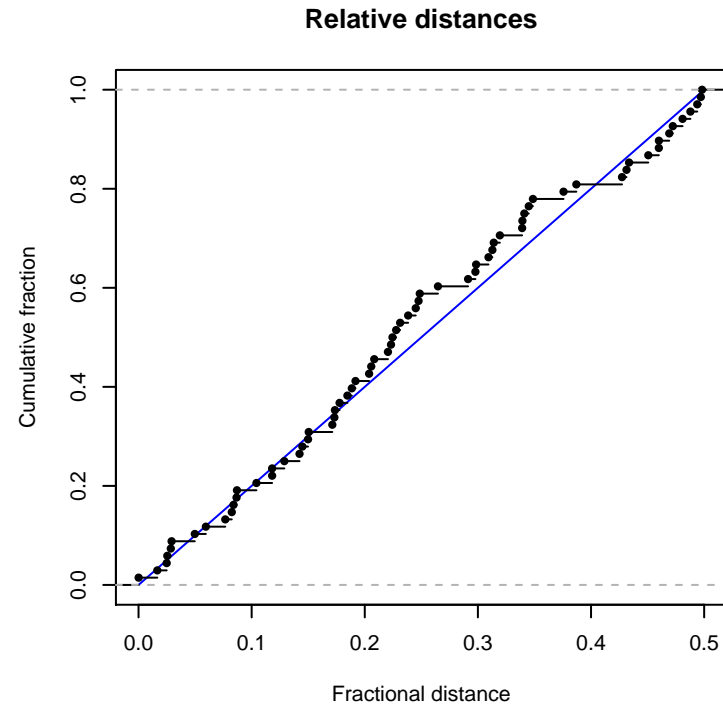
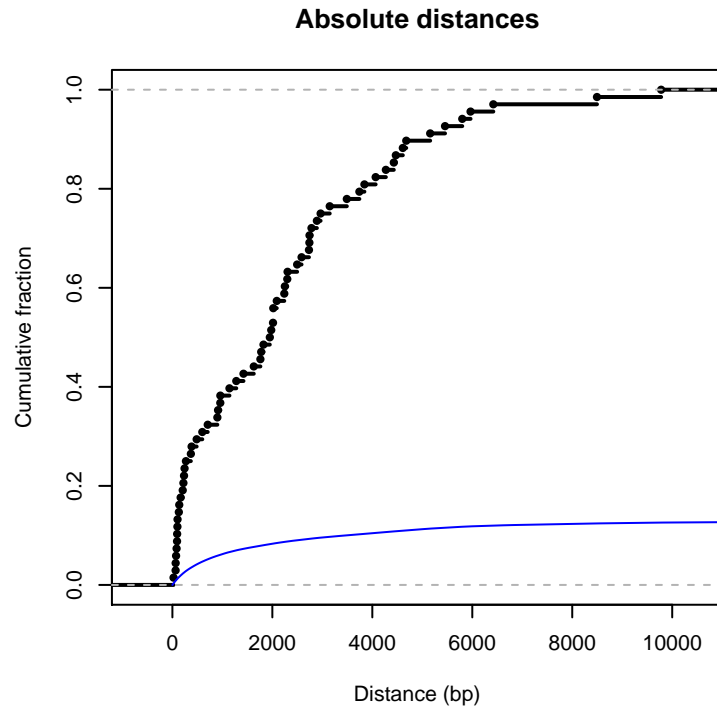
pcontig_075

Query population : 53
Reference population : 405
Relative Ks p-value : 0.21162
Relative ecdf deviation area : 0.0252785
Relative ecdf area correlation : -0.0628187
Relative ecdf deviation area p-value : 0.27
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.79754



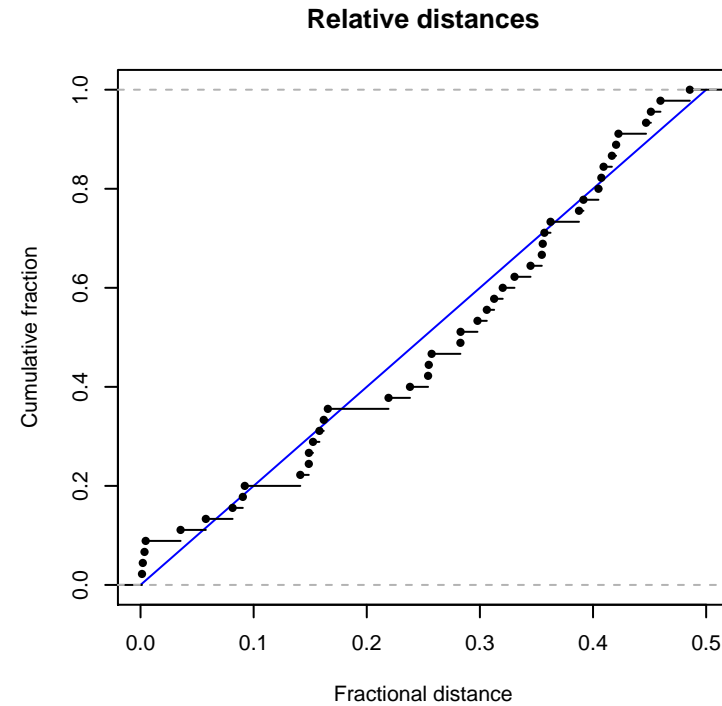
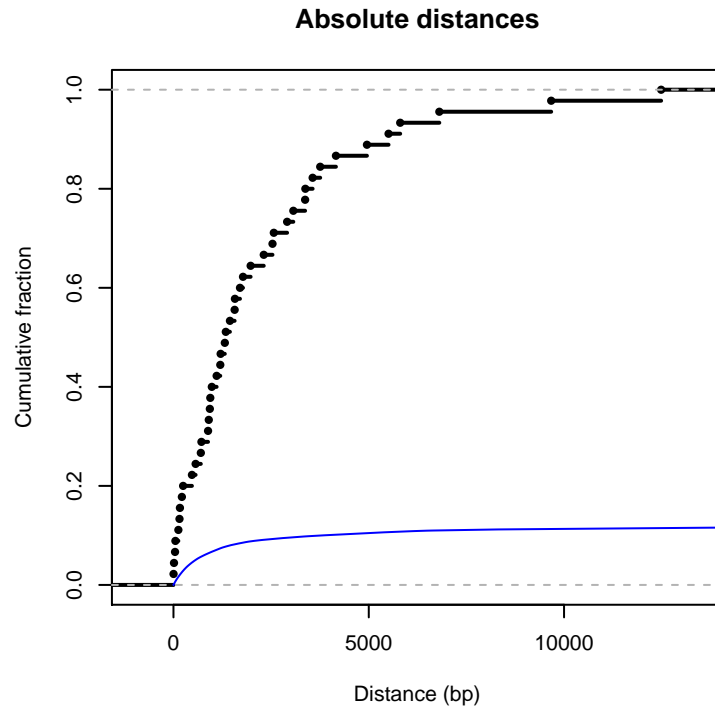
pcontig_077

Query population : 68
Reference population : 236
Relative Ks p-value : 0.593556
Relative ecdf deviation area : 0.0145102
Relative ecdf area correlation : 0.0212485
Relative ecdf deviation area p-value : 0.73
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.44089e-16
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.83986



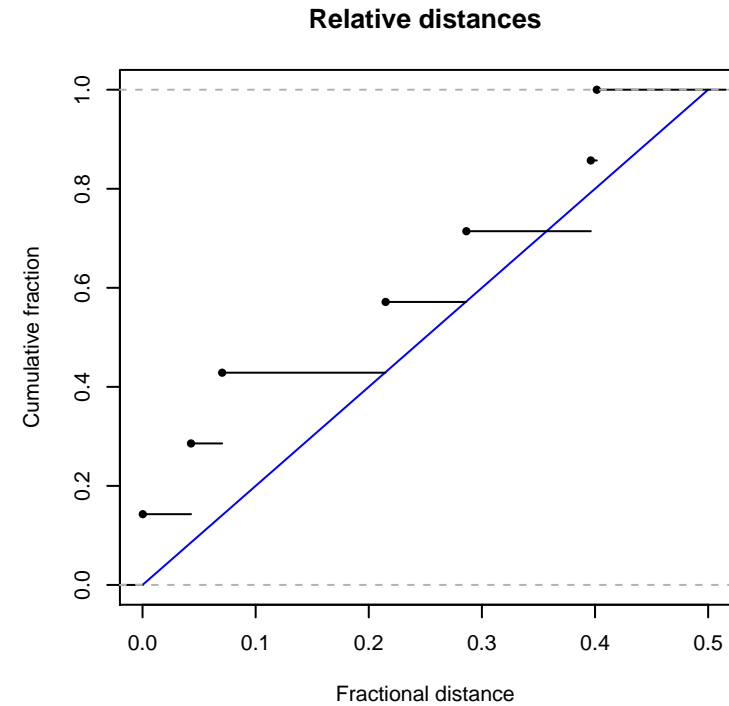
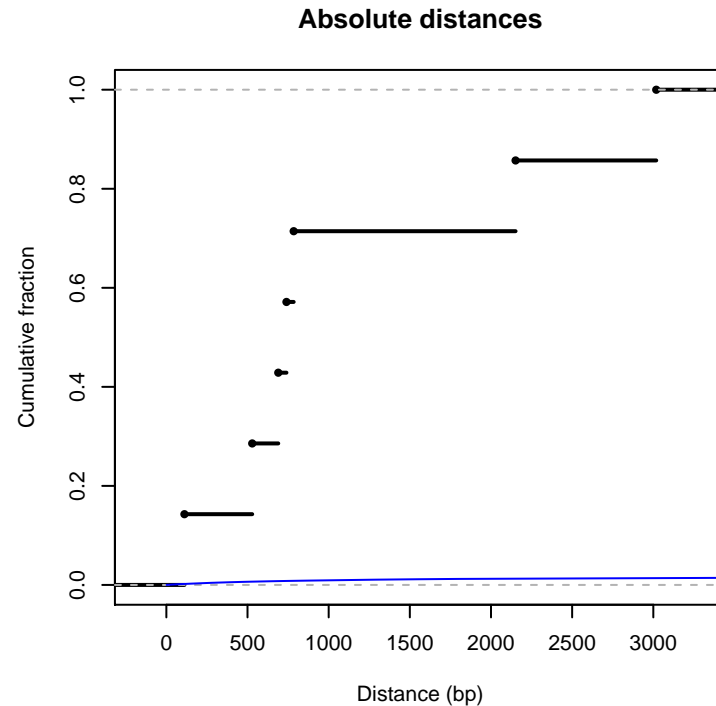
pcontig_078

Query population : 45
Reference population : 251
Relative Ks p-value : 0.626761
Relative ecdf deviation area : 0.0195874
Relative ecdf area correlation : -0.0382415
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 : 4.94027e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.50719



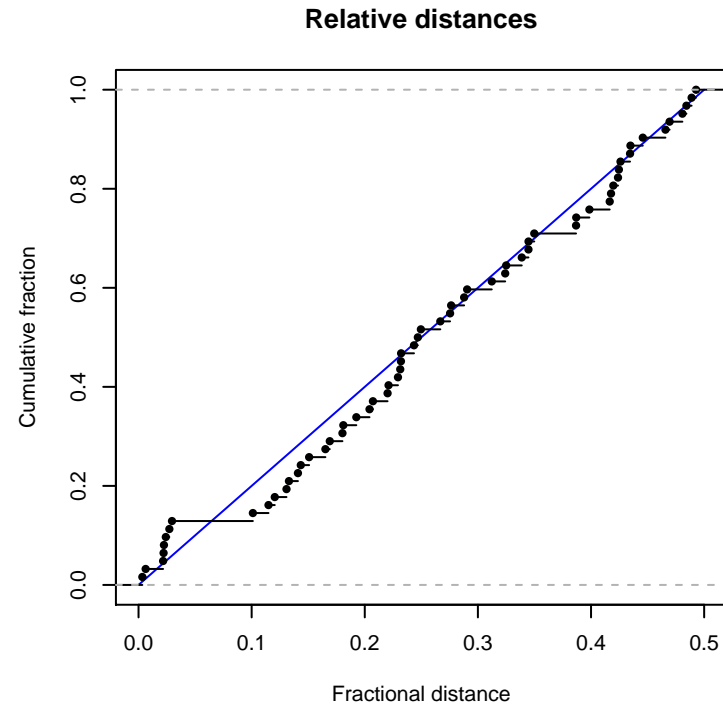
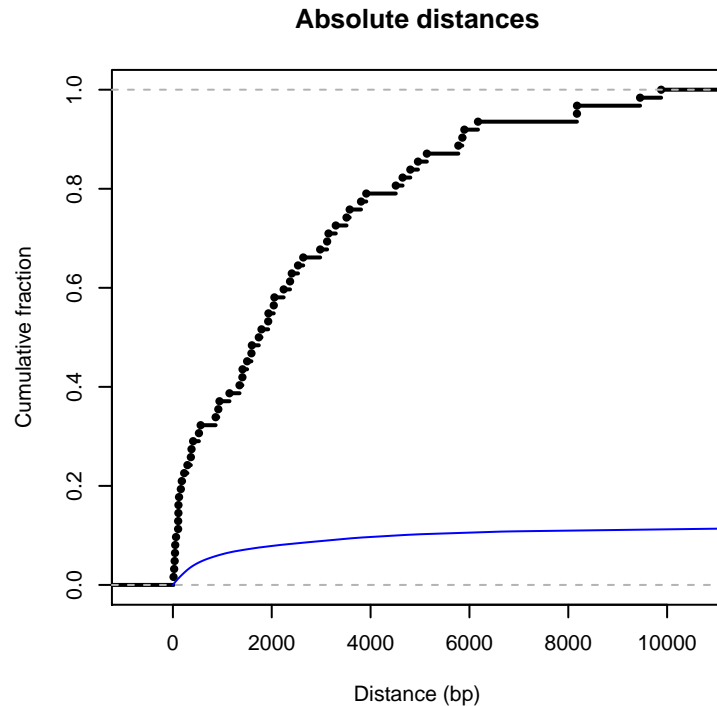
pcontig_079

Query population : 7
Reference population : 38
Relative Ks p-value : 0.516752
Relative ecdf deviation area : 0.0510708
Relative ecdf area correlation : 0.192855
Relative ecdf deviation area p-value : 0.5
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.40835e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 61.7046



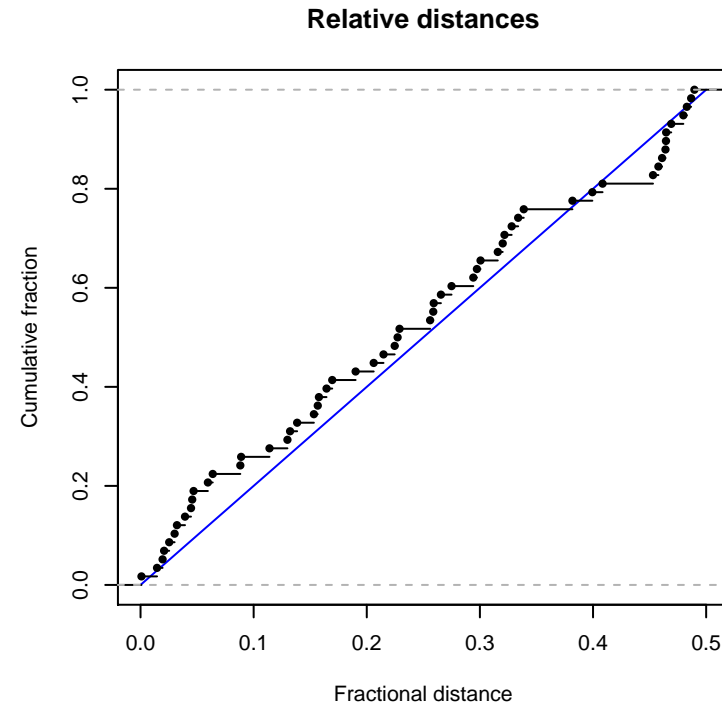
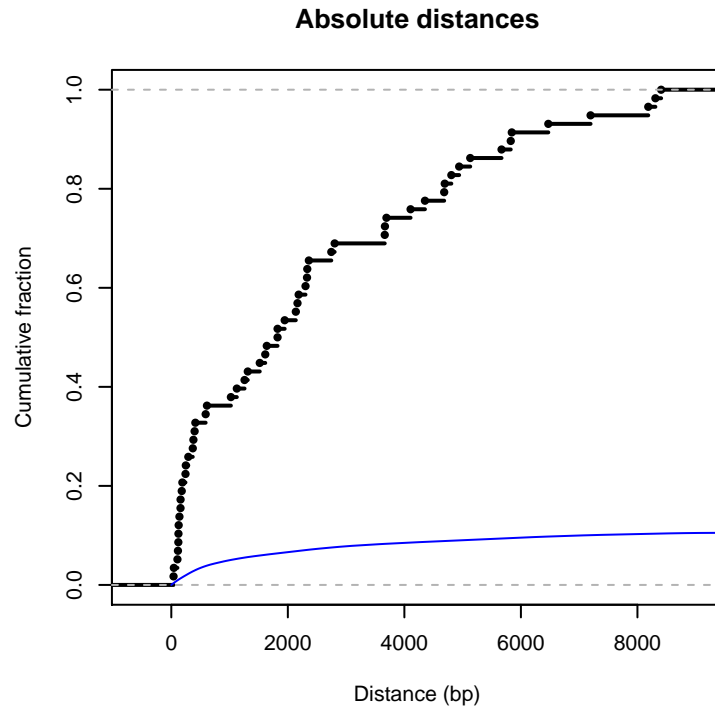
pcontig_080

Query population : 62
Reference population : 224
Relative Ks p-value : 0.734403
Relative ecdf deviation area : 0.0156069
Relative ecdf area correlation : -0.0472124
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 : 5.70322e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.93666



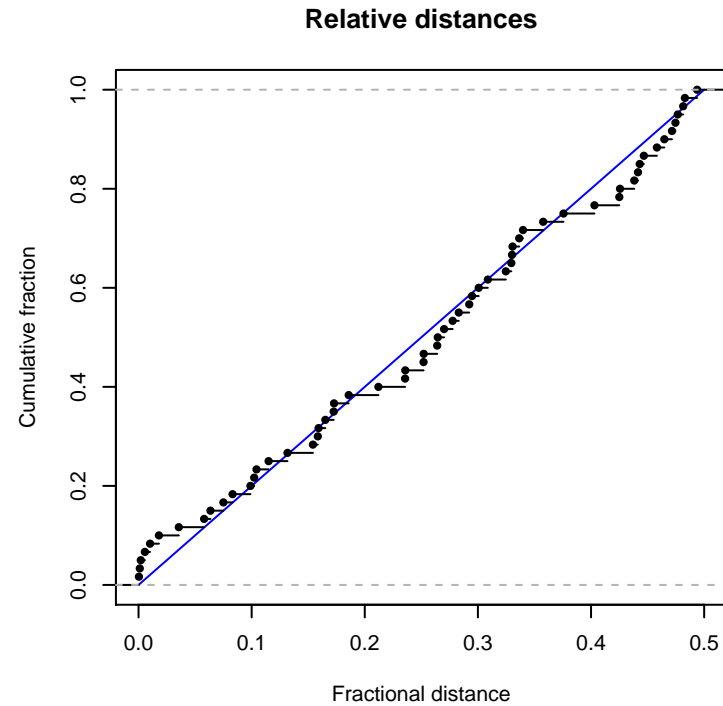
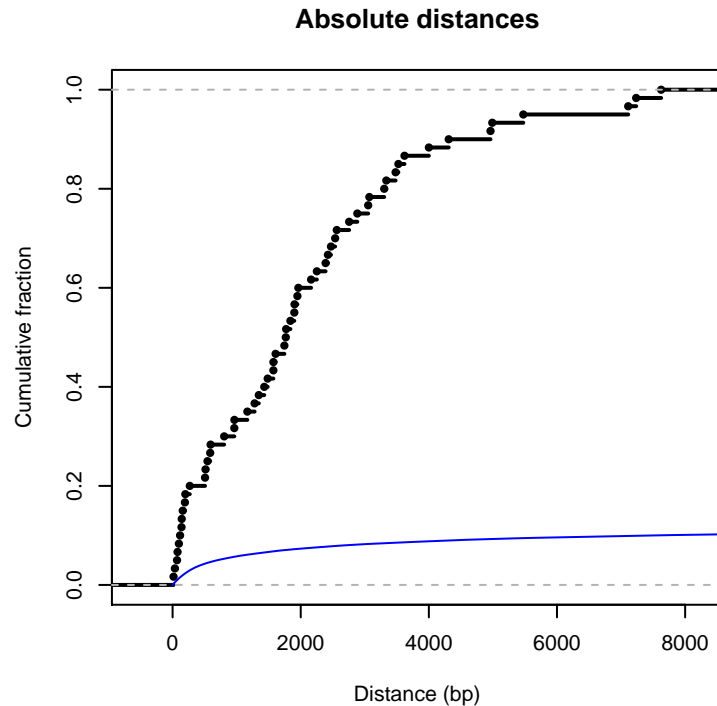
pcontig_081

Query population : 58
Reference population : 155
Relative Ks p-value : 0.617975
Relative ecdf deviation area : 0.0198654
Relative ecdf area correlation : 0.0512939
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
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.59486



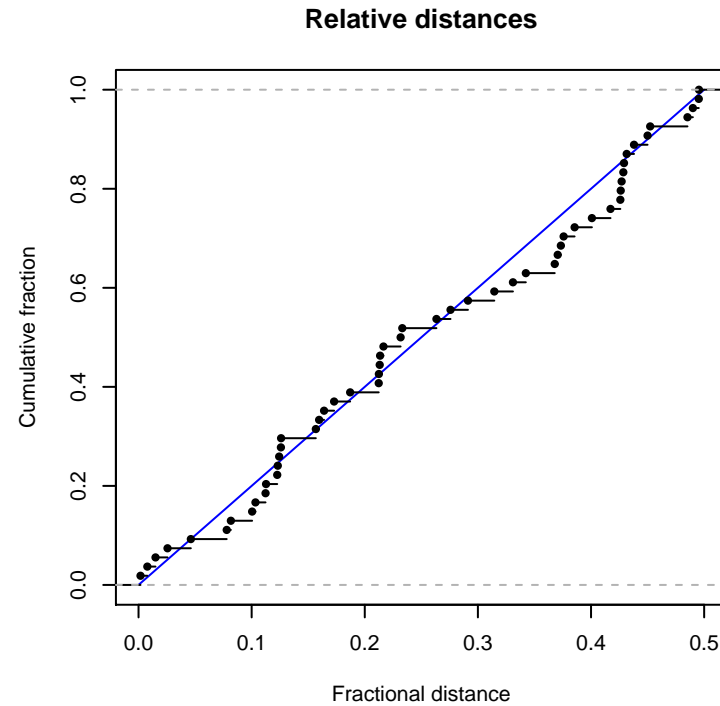
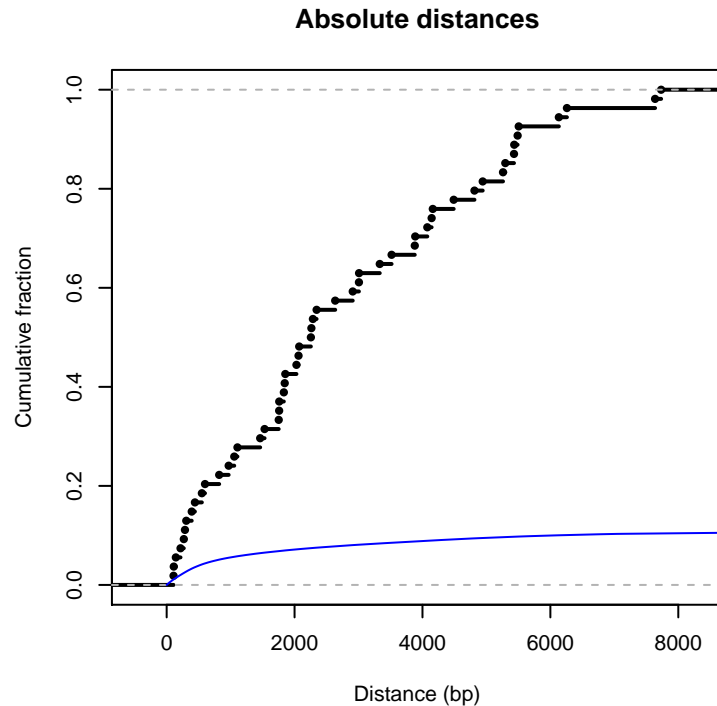
pcontig_082

Query population : 60
Reference population : 254
Relative Ks p-value : 0.767797
Relative ecdf deviation area : 0.0133554
Relative ecdf area correlation : -0.0245684
Relative ecdf deviation area p-value : 0.79
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.55316e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.52457



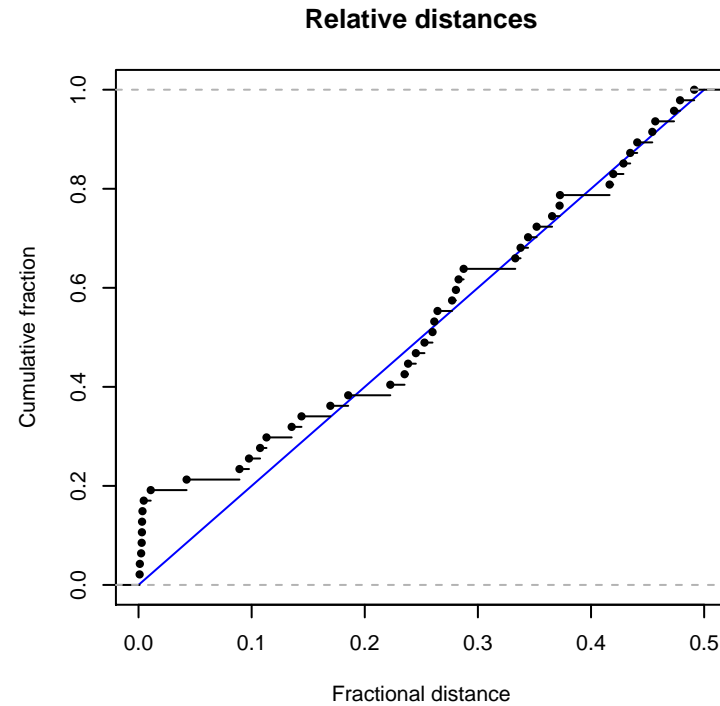
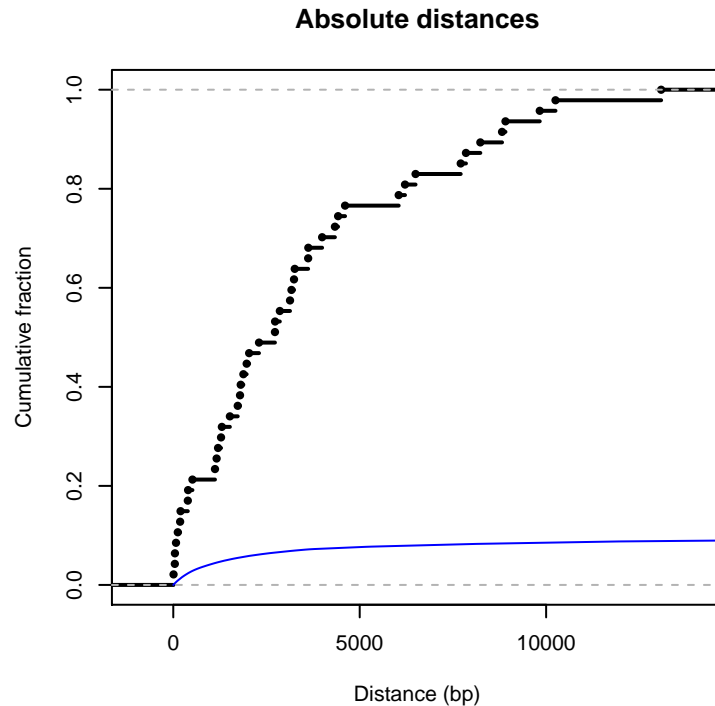
pcontig_083

Query population : 54
Reference population : 199
Relative Ks p-value : 0.540722
Relative ecdf deviation area : 0.0157125
Relative ecdf area correlation : -0.0417663
Relative ecdf deviation area p-value : 0.69
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 : 0.000815472
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.18083



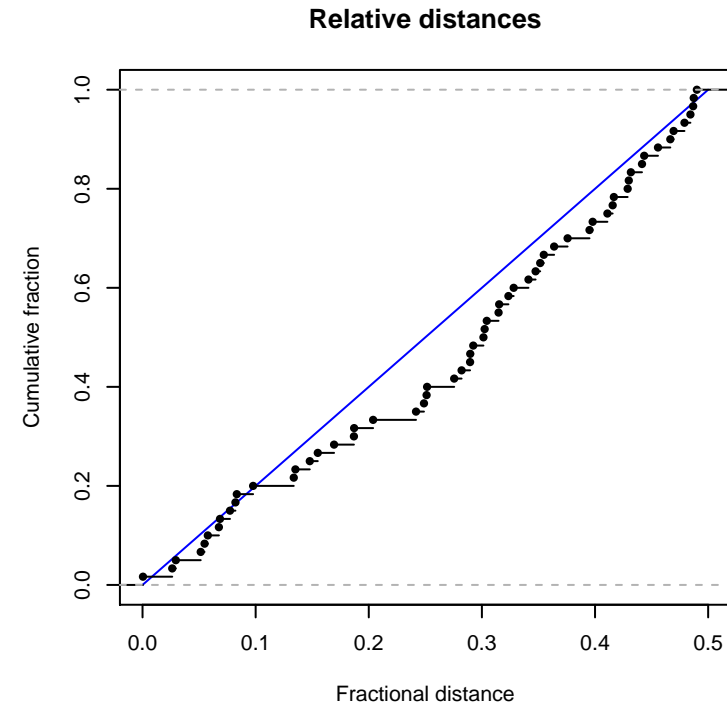
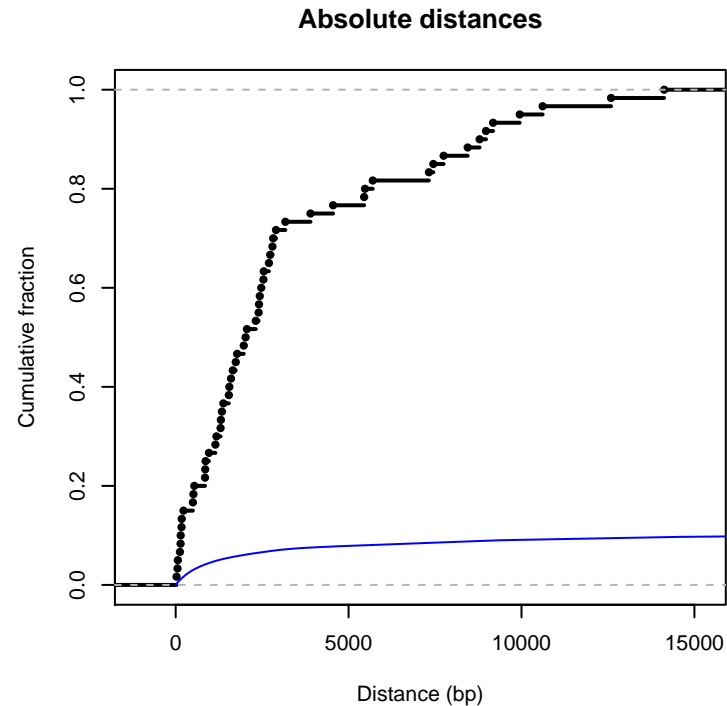
pcontig_084

Query population : 47
Reference population : 135
Relative Ks p-value : 0.117693
Relative ecdf deviation area : 0.0195602
Relative ecdf area correlation : 0.0471212
Relative ecdf deviation area p-value : 0.56
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.32667e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.57512



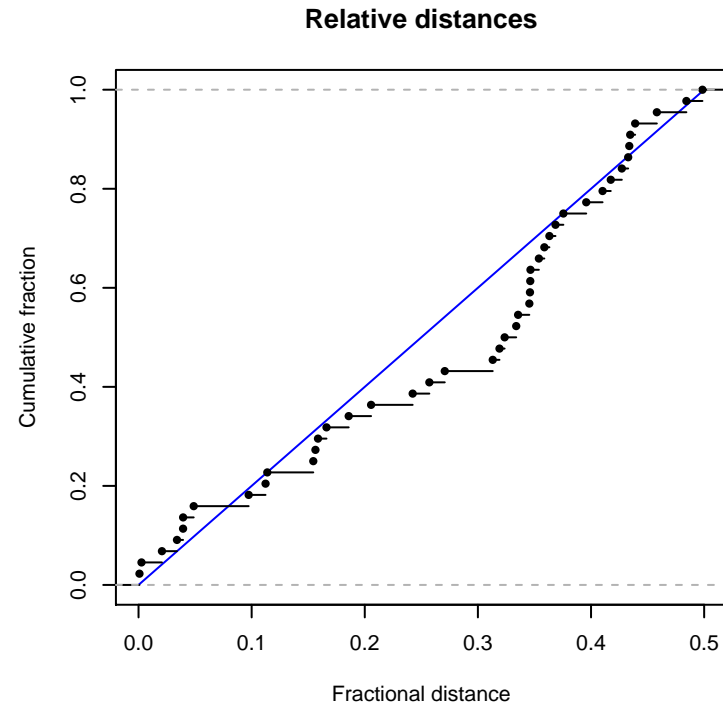
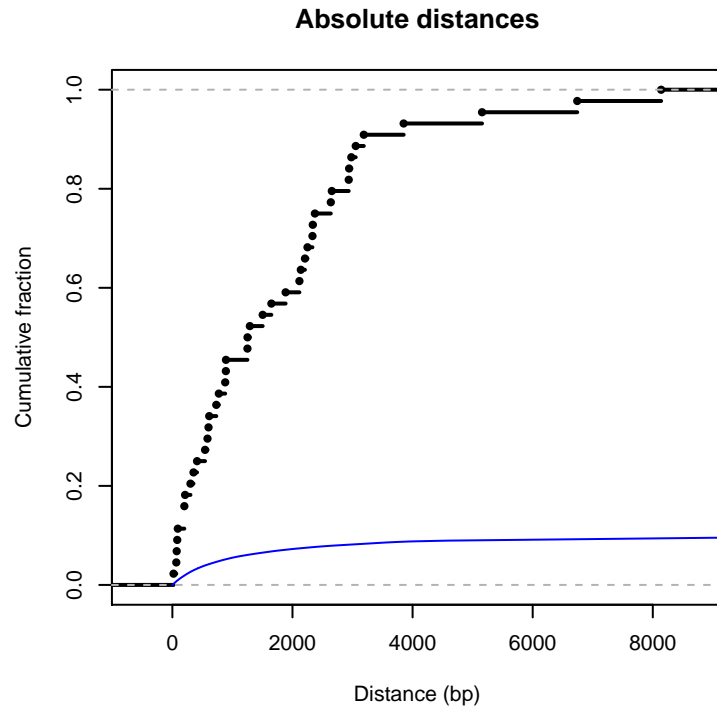
pcontig_086

Query population : 60
Reference population : 149
Relative Ks p-value : 0.116631
Relative ecdf deviation area : 0.0304795
Relative ecdf area correlation : -0.119489
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 : 2.22045e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.17279



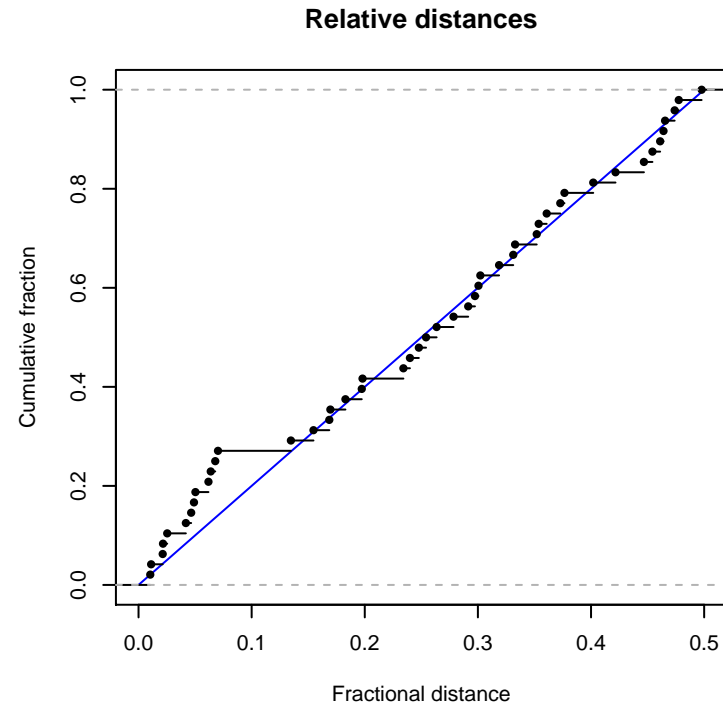
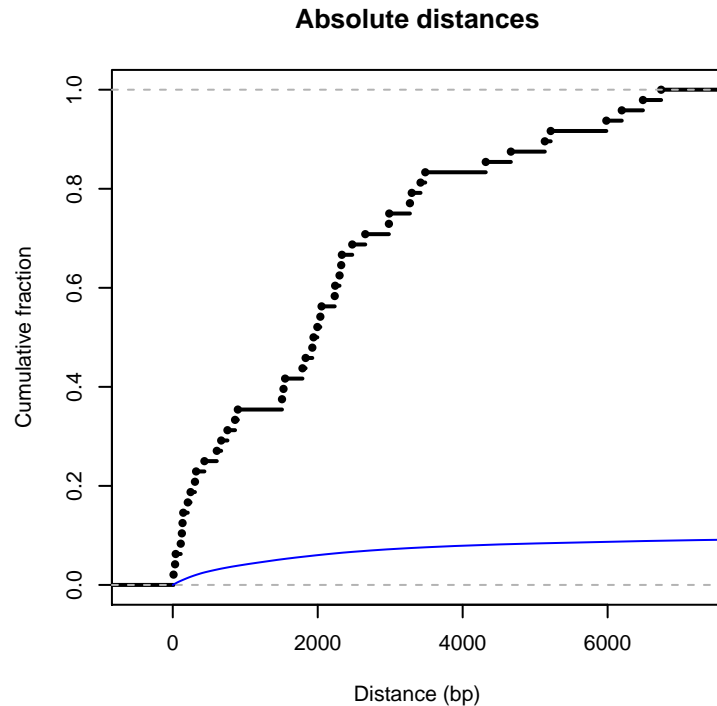
pcontig_087

Query population : 44
Reference population : 189
Relative Ks p-value : 0.0623008
Relative ecdf deviation area : 0.0291057
Relative ecdf area correlation : -0.0879792
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 : 1.08757e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.73869



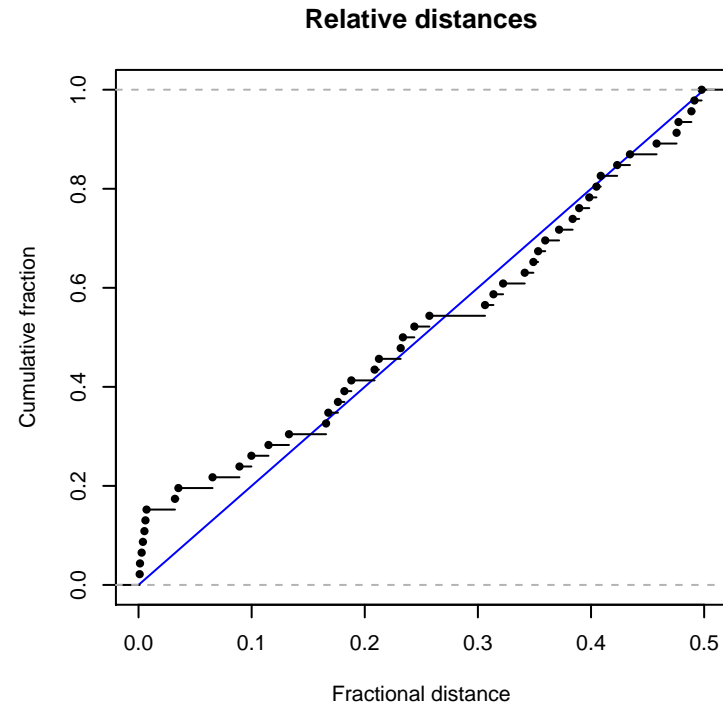
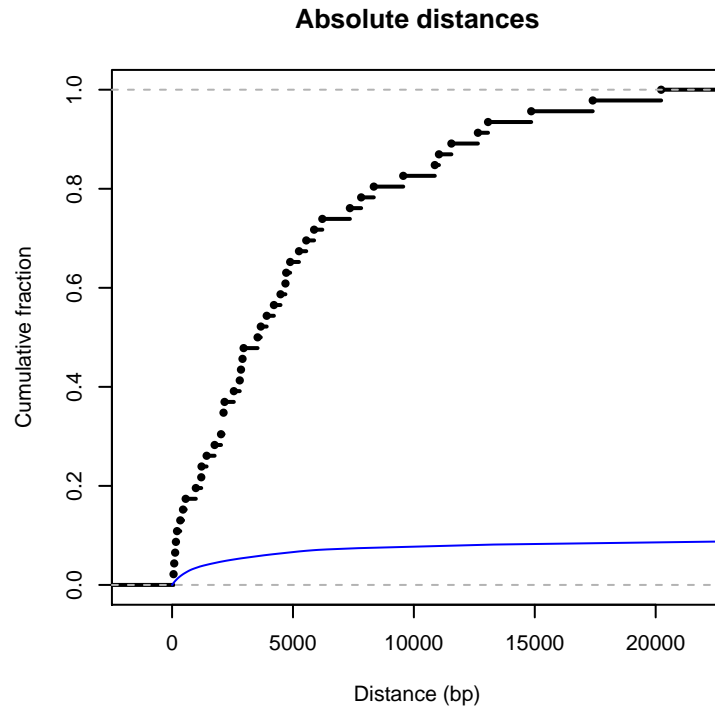
pcontig_088

Query population : 48
Reference population : 144
Relative Ks p-value : 0.357335
Relative ecdf deviation area : 0.0140323
Relative ecdf area correlation : 0.0150084
Relative ecdf deviation area p-value : 0.88
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 6.38378e-14
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.343



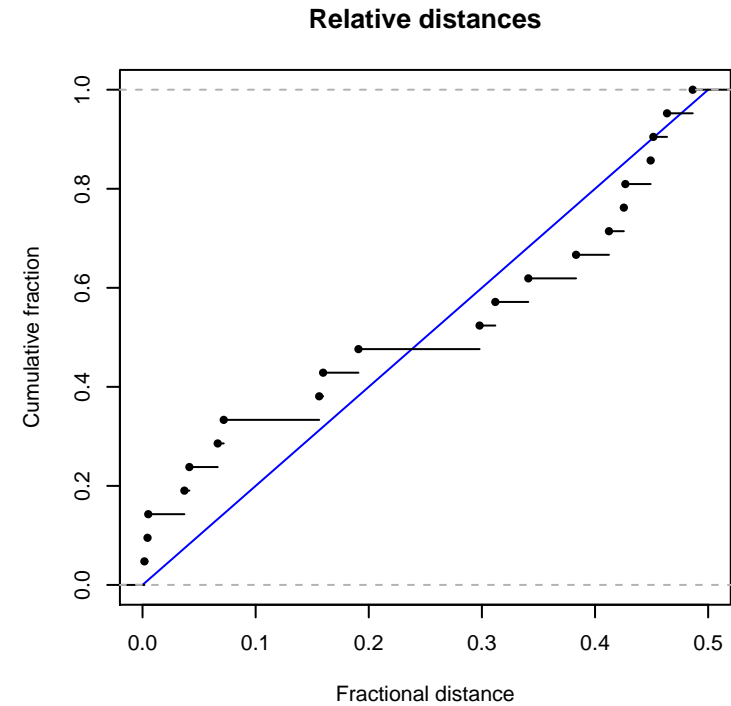
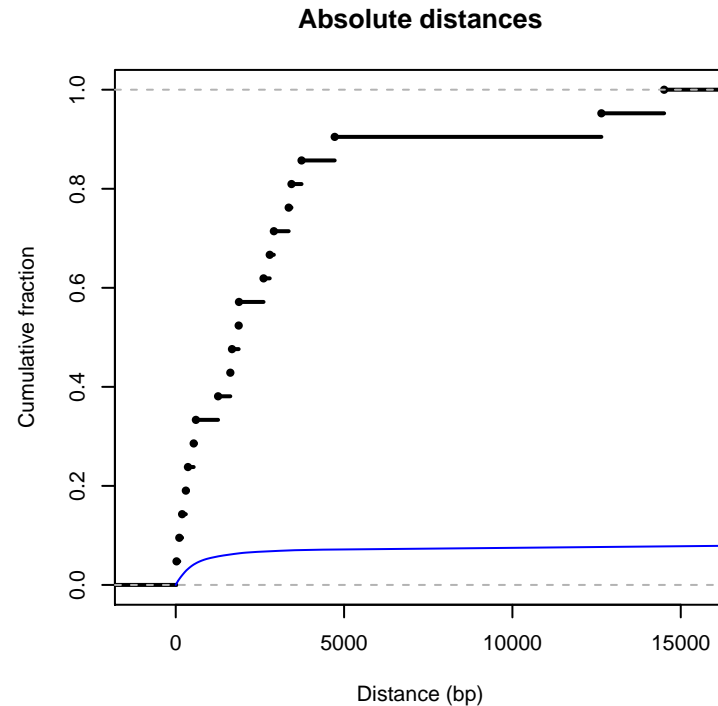
pcontig_089

Query population : 46
Reference population : 120
Relative Ks p-value : 0.315645
Relative ecdf deviation area : 0.0198782
Relative ecdf area correlation : 0.0162014
Relative ecdf deviation area p-value : 0.57
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 6.0469e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.81008



pcontig_090

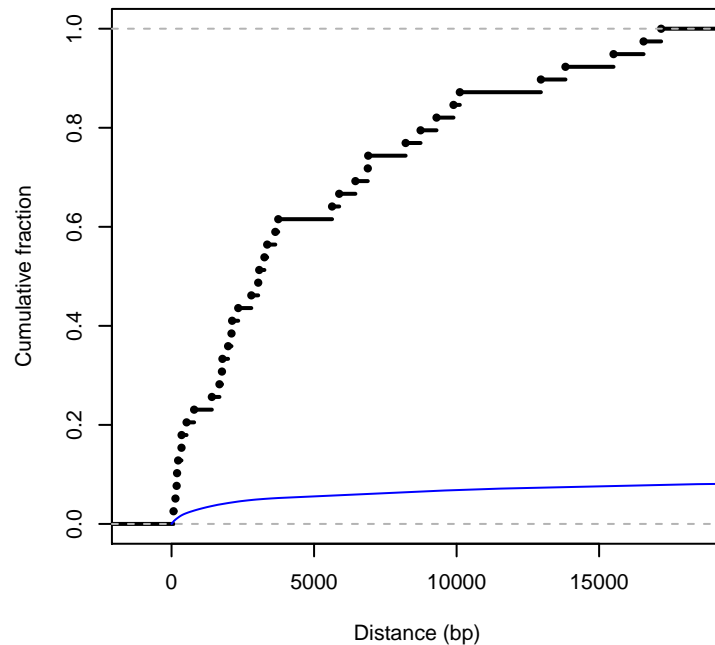
Query population : 21
Reference population : 222
Relative Ks p-value : 0.386983
Relative ecdf deviation area : 0.0411301
Relative ecdf area correlation : 0.0125984
Relative ecdf deviation area p-value : 0.26
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.12356e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.86565



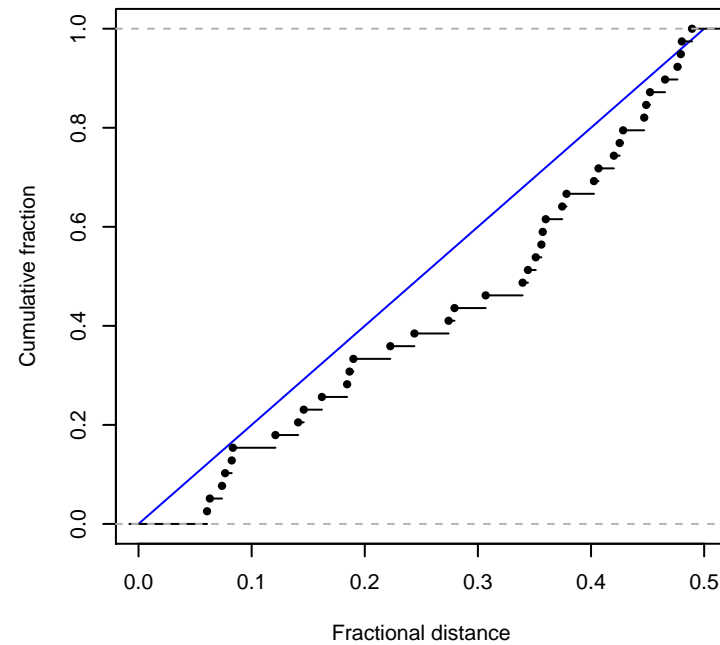
pcontig_091

Query population : 39
Reference population : 129
Relative Ks p-value : 0.0423355
Relative ecdf deviation area : 0.0476673
Relative ecdf area correlation : -0.187745
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 : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.70946e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.74578

Absolute distances

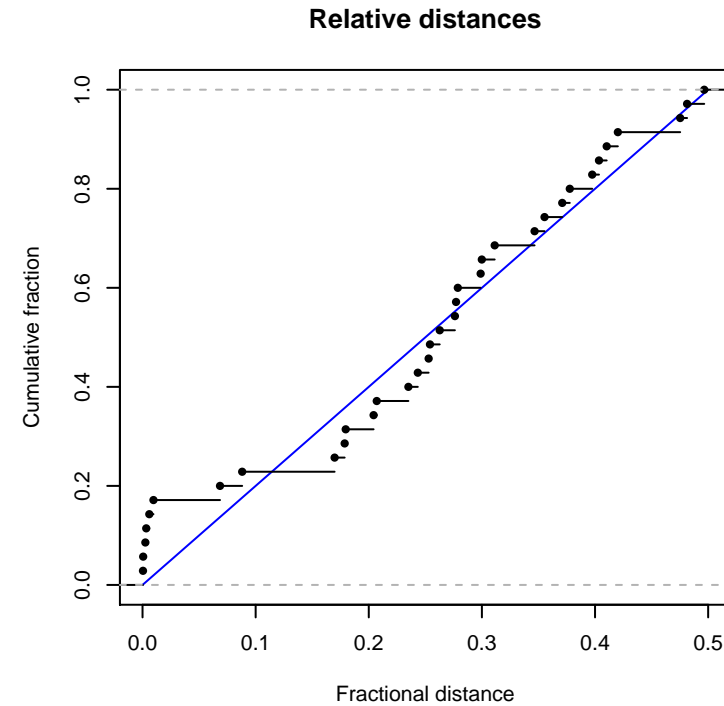
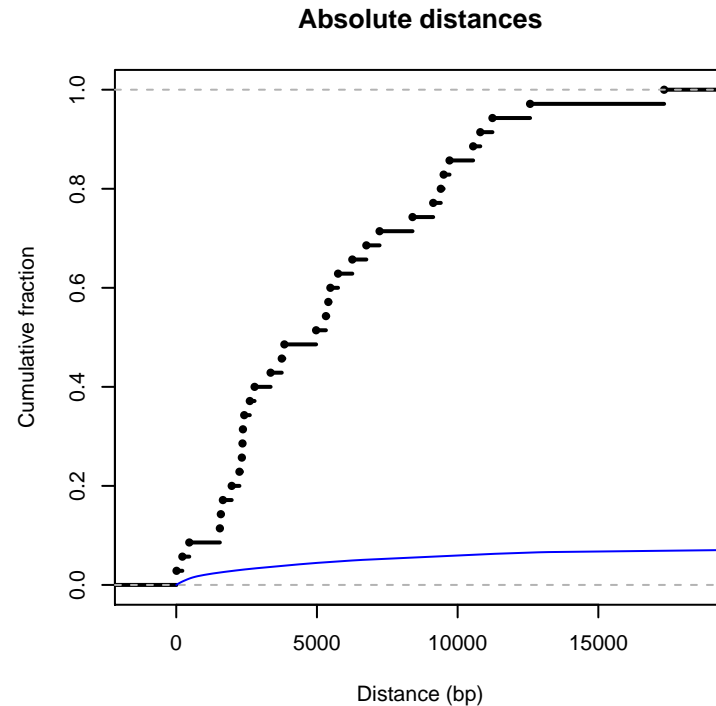


Relative distances



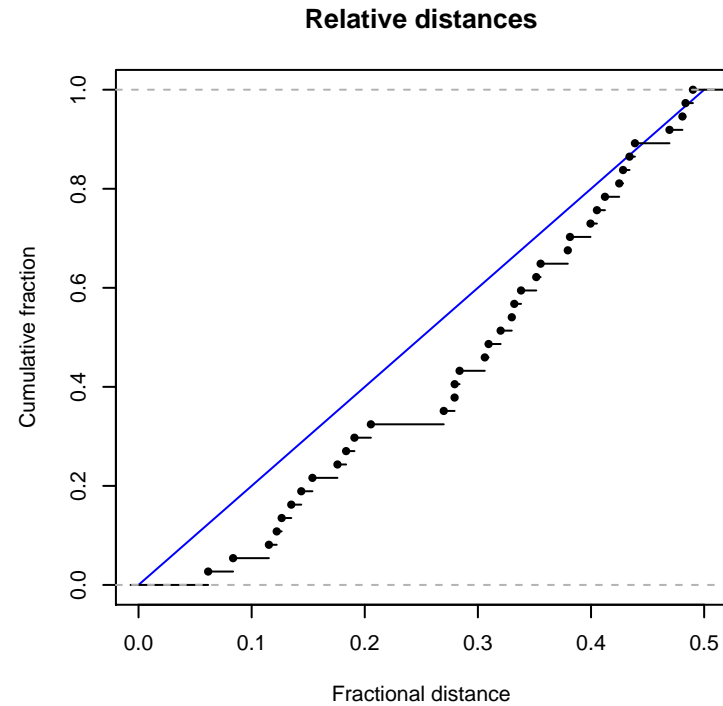
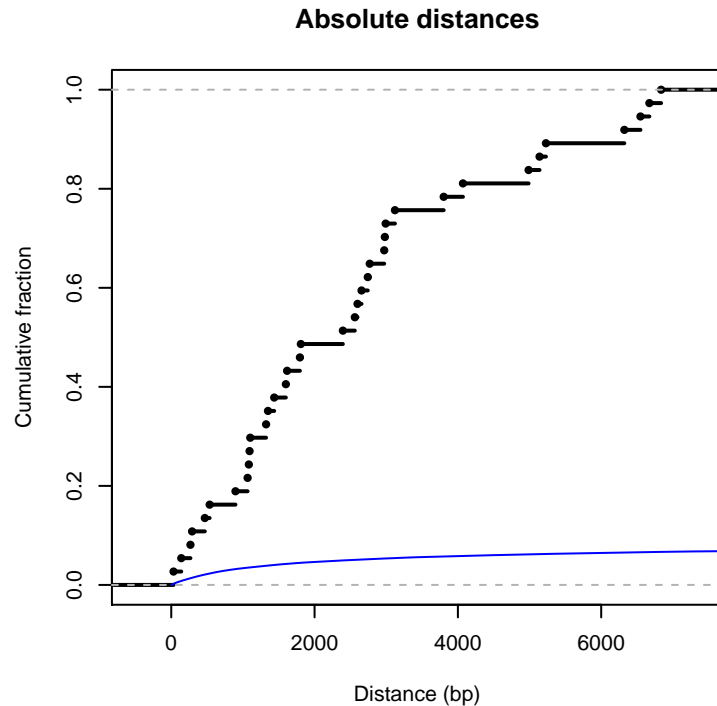
pcontig_092

Query population : 35
Reference population : 61
Relative Ks p-value : 0.356384
Relative ecdf deviation area : 0.0242198
Relative ecdf area correlation : 0.0121312
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 : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.38406e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.38217



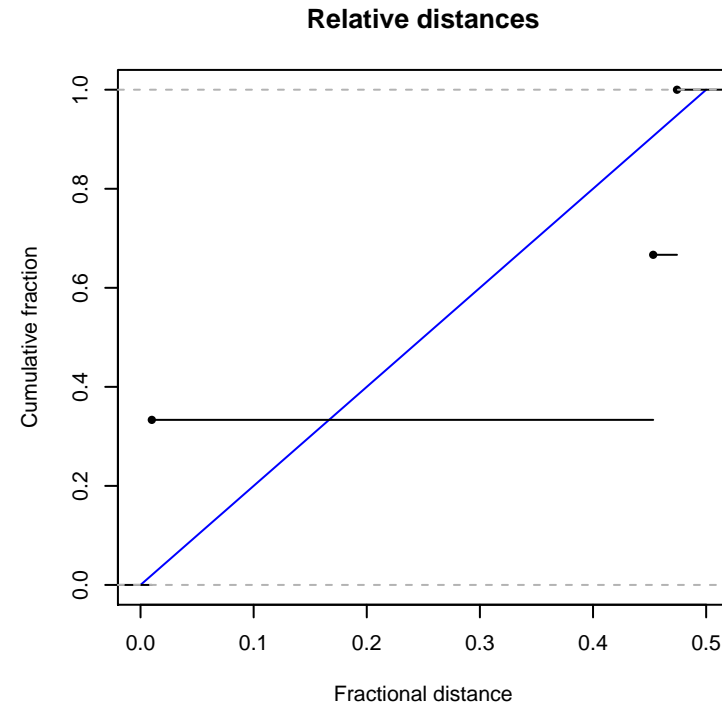
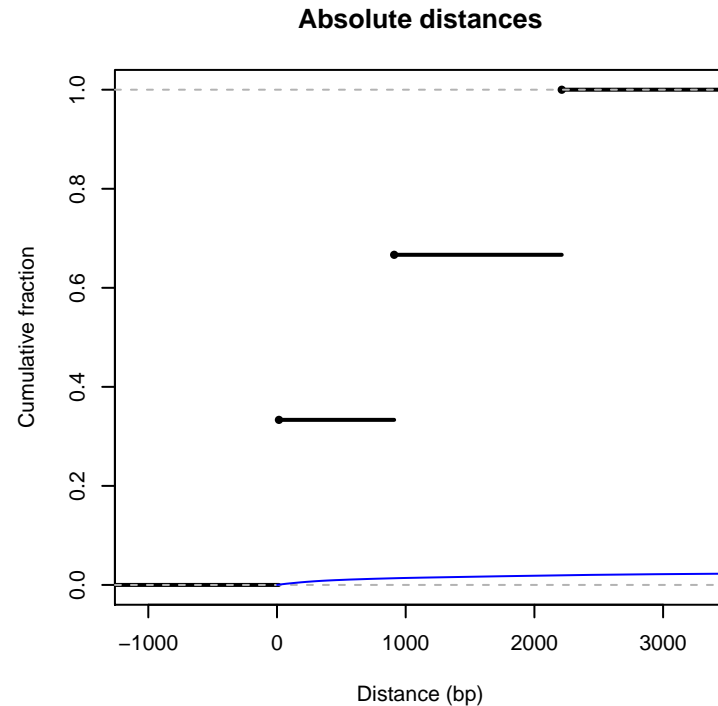
pcontig_095

Query population : 37
Reference population : 120
Relative Ks p-value : 0.0551363
Relative ecdf deviation area : 0.0495926
Relative ecdf area correlation : -0.197898
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 : 5.28647e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.2917



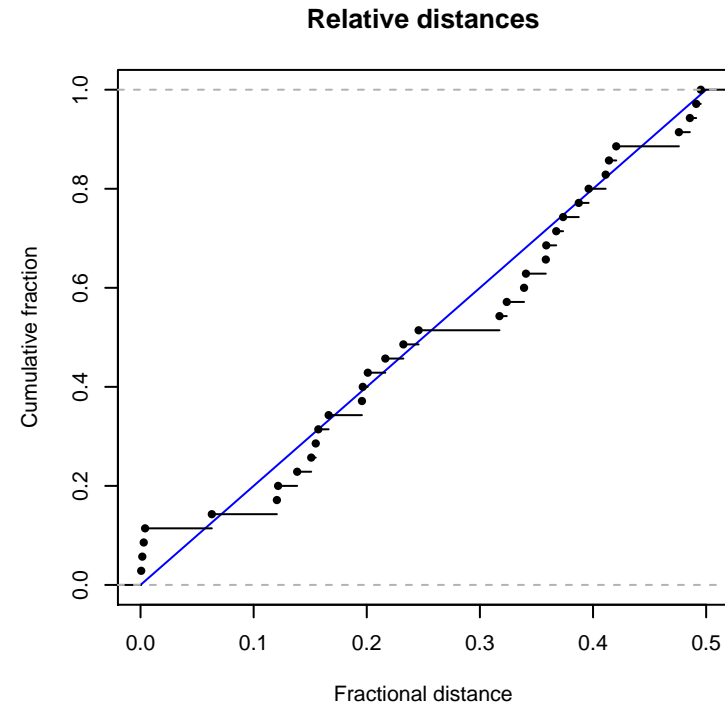
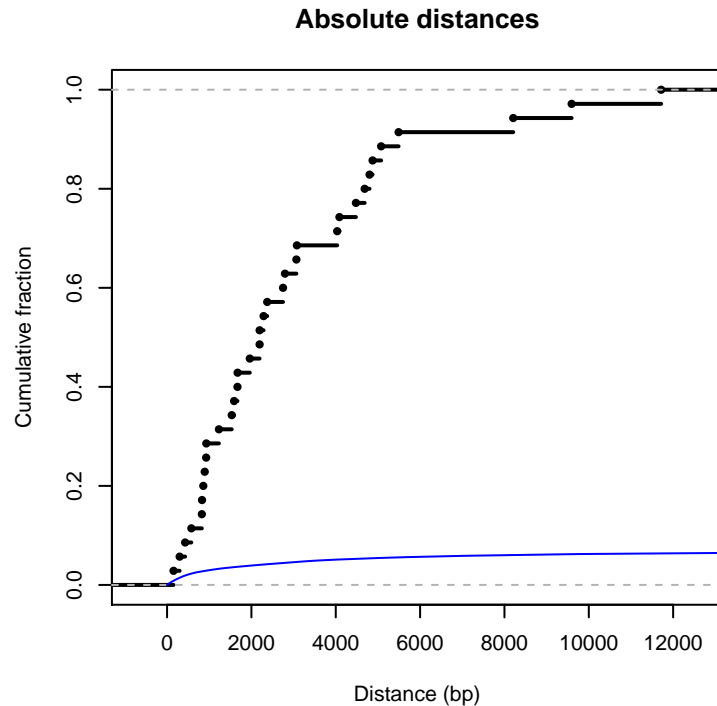
pcontig_096

Query population : 3
Reference population : 59
Relative Ks p-value : 0.185775
Relative ecdf deviation area : 0.113481
Relative ecdf area correlation : -0.249859
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 : 7.845e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 33.5514



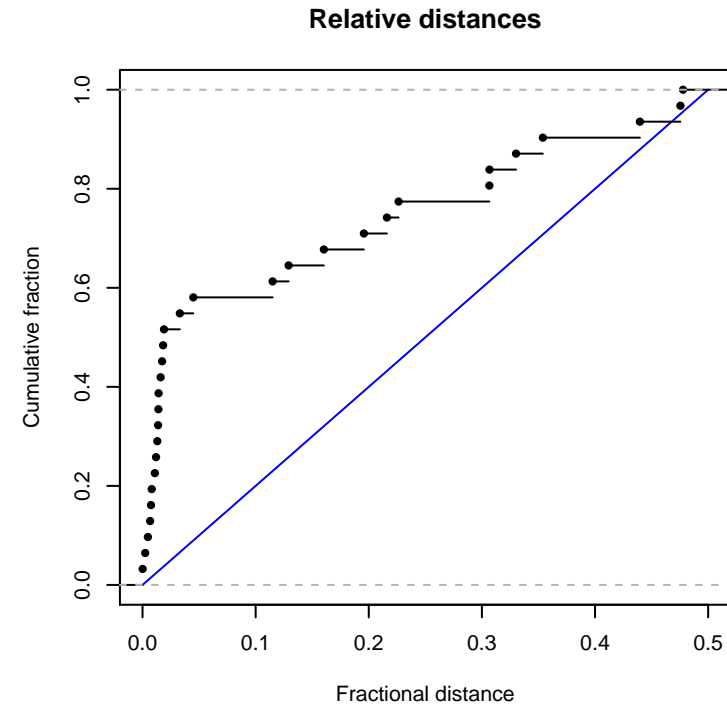
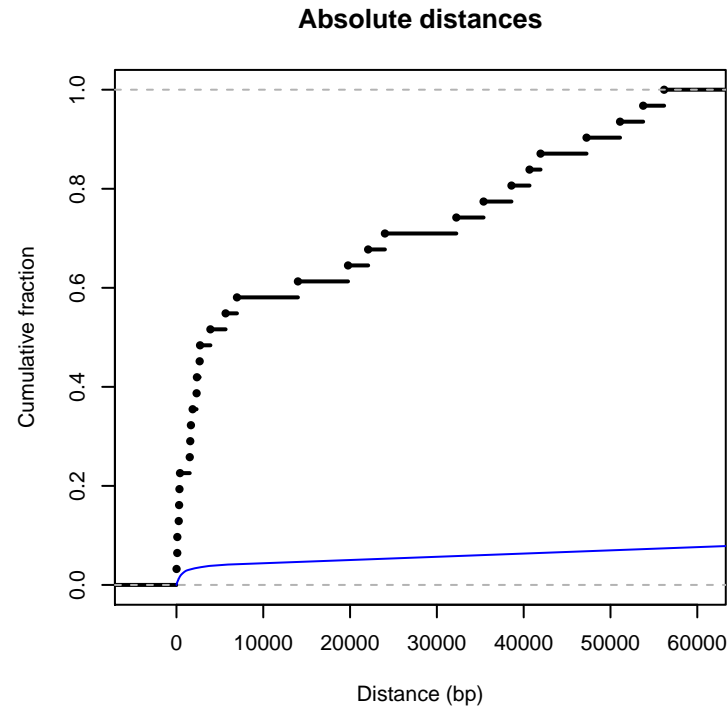
pcontig_097

Query population : 35
Reference population : 109
Relative Ks p-value : 0.647575
Relative ecdf deviation area : 0.0189613
Relative ecdf area correlation : -0.0429267
Relative ecdf deviation area p-value : 0.72
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.10143e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.2143



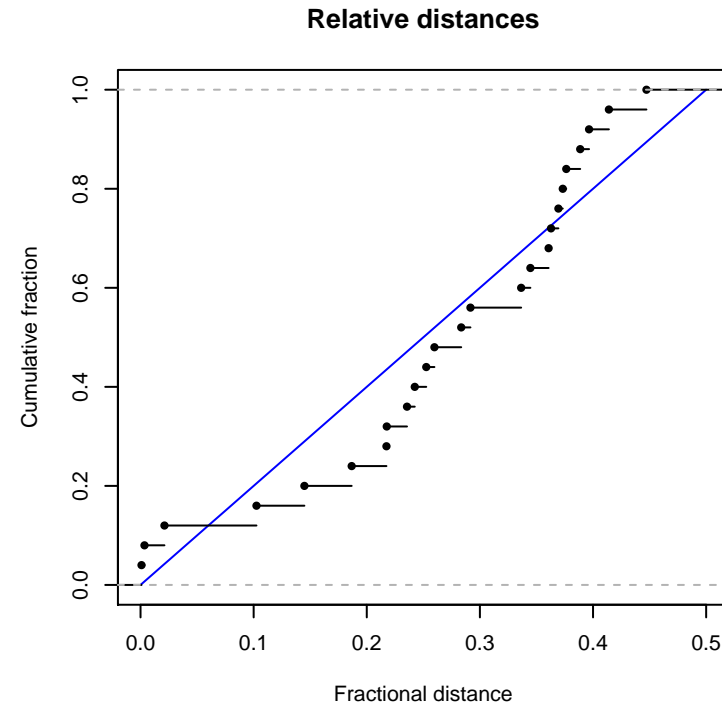
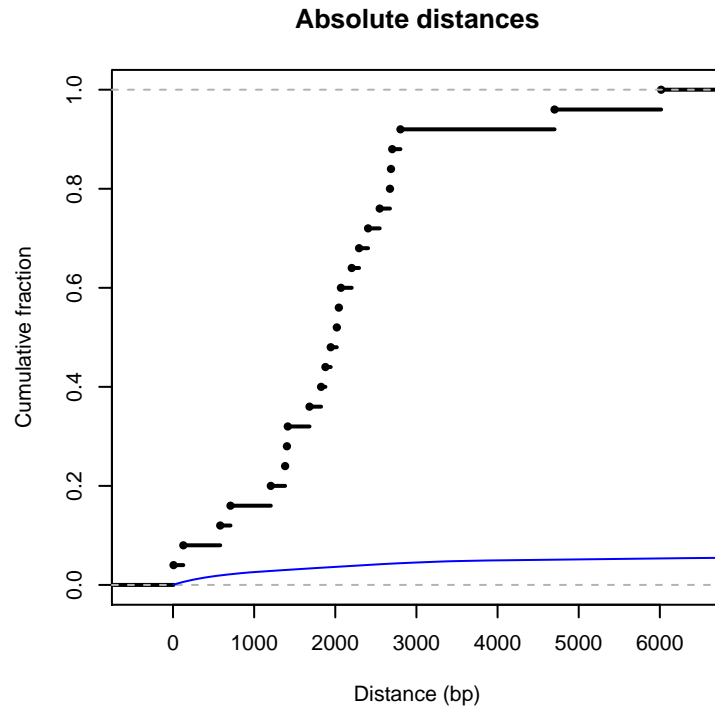
pcontig_100

Query population : 31
Reference population : 102
Relative Ks p-value : 2.06023e-07
Relative ecdf deviation area : 0.121924
Relative ecdf area correlation : 0.485364
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 : 2.83892e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.9534



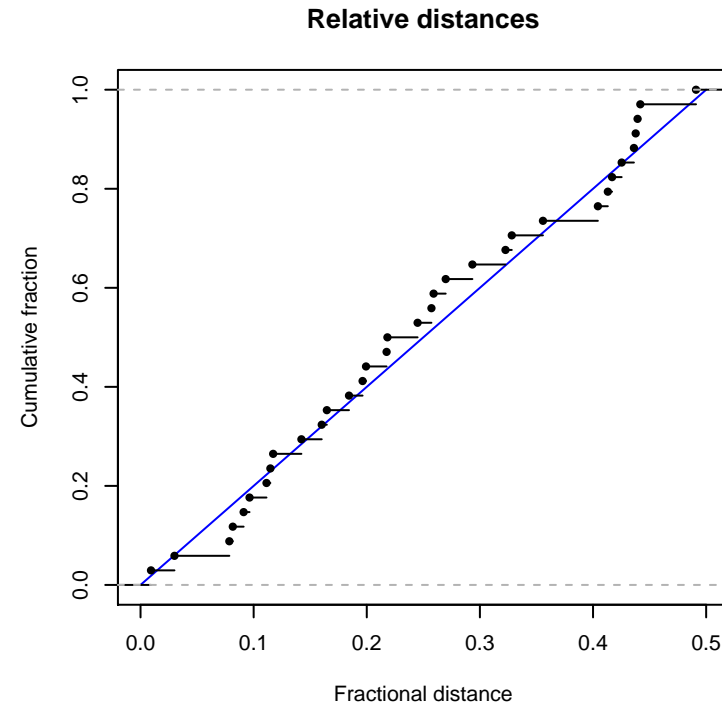
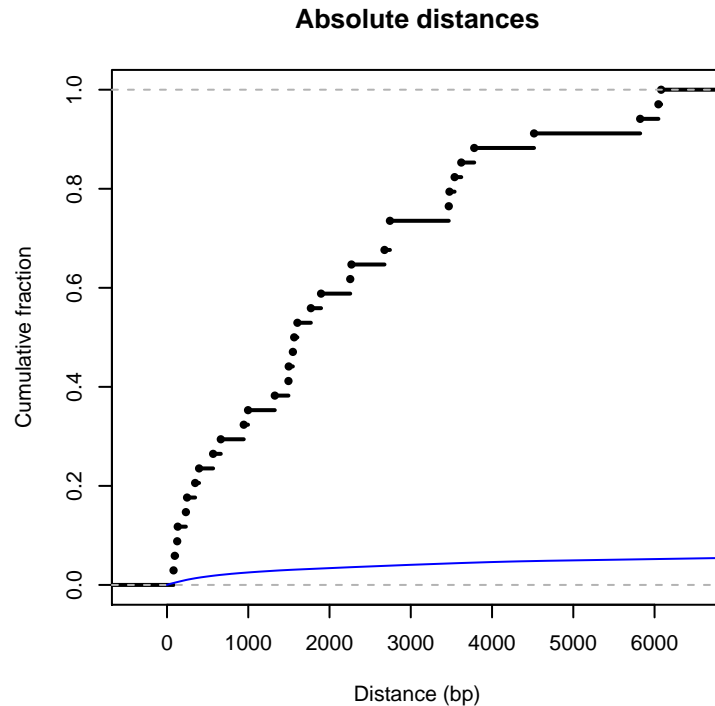
pcontig_103

Query population : 25
Reference population : 89
Relative Ks p-value : 0.263024
Relative ecdf deviation area : 0.0395855
Relative ecdf area correlation : -0.0608264
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 : 7.98901e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.7526



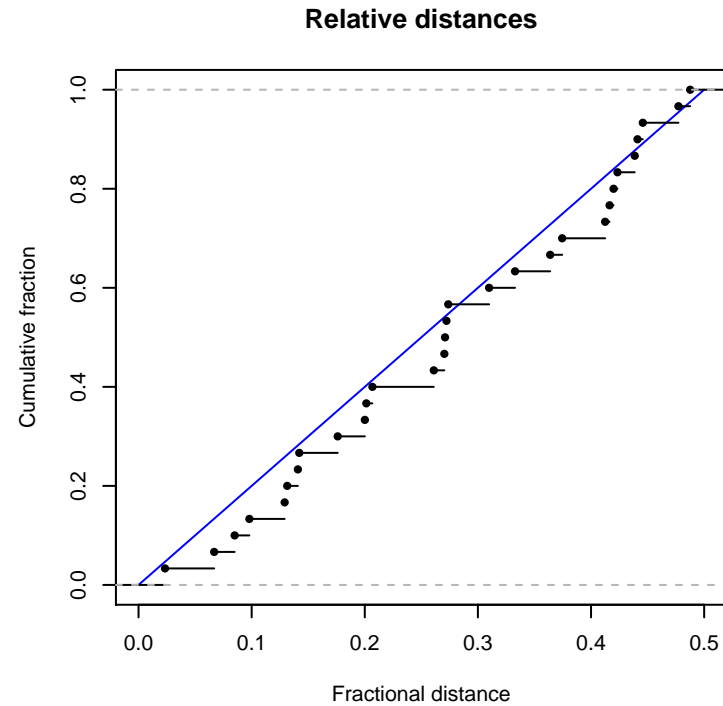
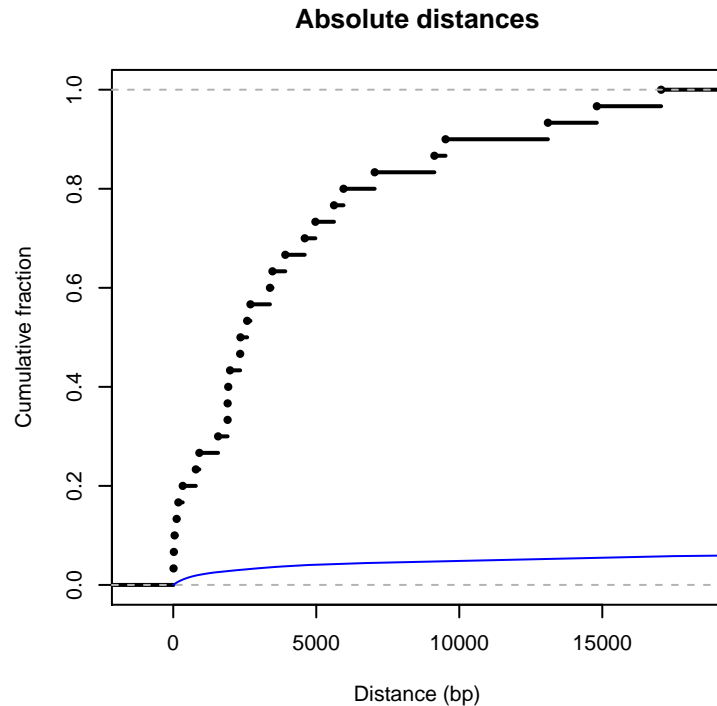
pcontig_104

Query population : 34
Reference population : 91
Relative Ks p-value : 0.866759
Relative ecdf deviation area : 0.0154232
Relative ecdf area correlation : 0.00594811
Relative ecdf deviation area p-value : 0.94
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.81855e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 15.959



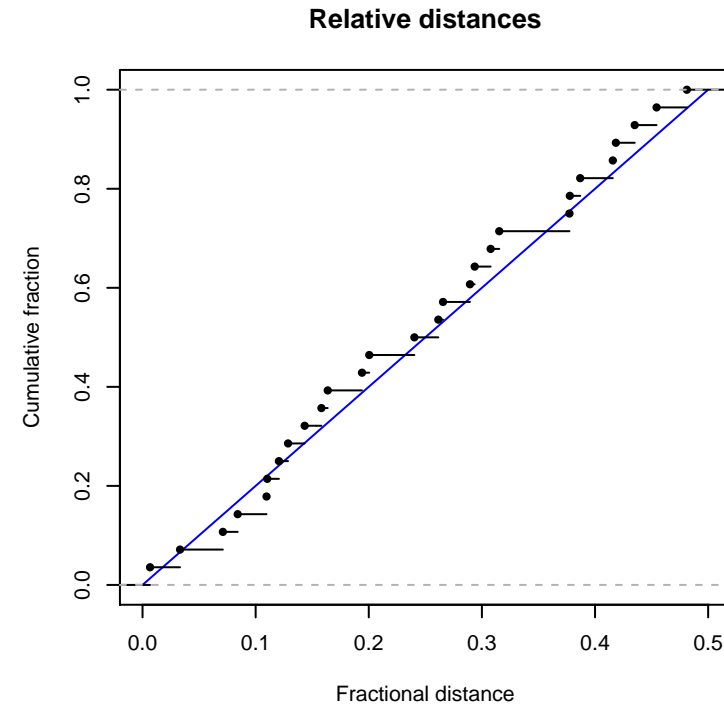
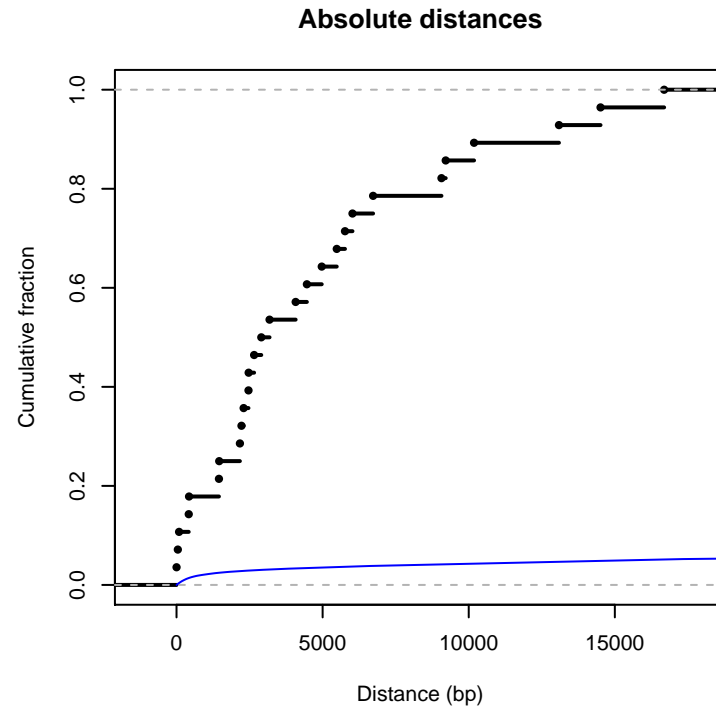
pcontig_106

Query population : 30
Reference population : 75
Relative Ks p-value : 0.690702
Relative ecdf deviation area : 0.0281543
Relative ecdf area correlation : -0.105713
Relative ecdf deviation area p-value : 0.44
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.39145e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.0893



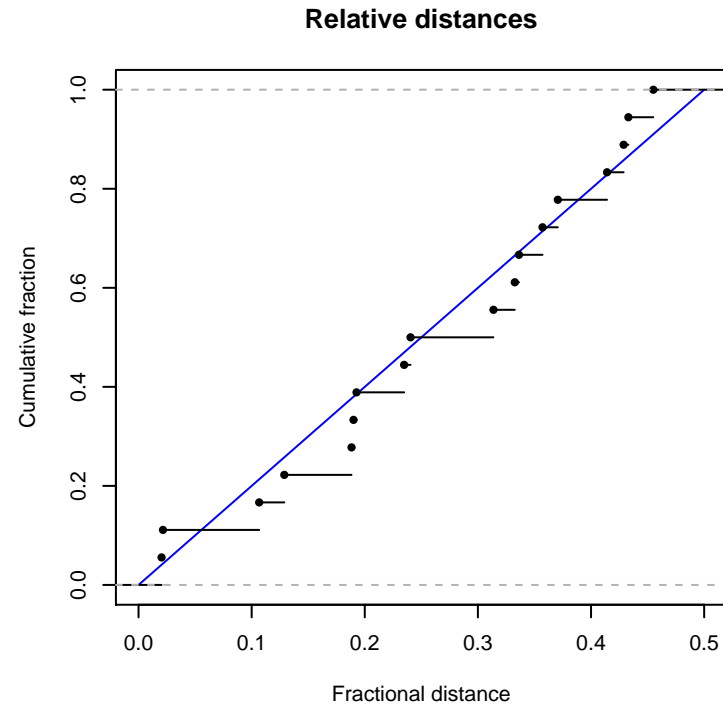
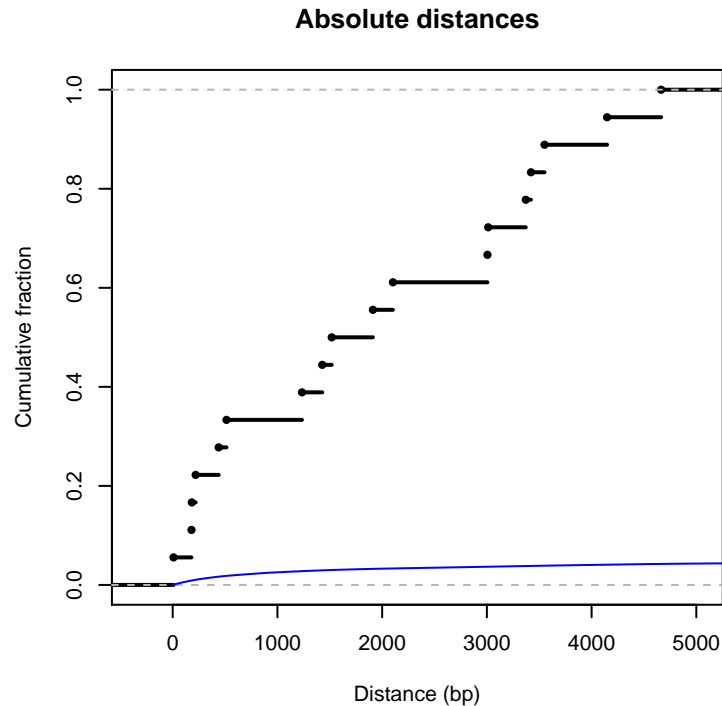
pcontig_110

Query population : 28
Reference population : 85
Relative Ks p-value : 0.980333
Relative ecdf deviation area : 0.0148684
Relative ecdf area correlation : 0.0222845
Relative ecdf deviation area p-value : 0.96
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.22272e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.41747



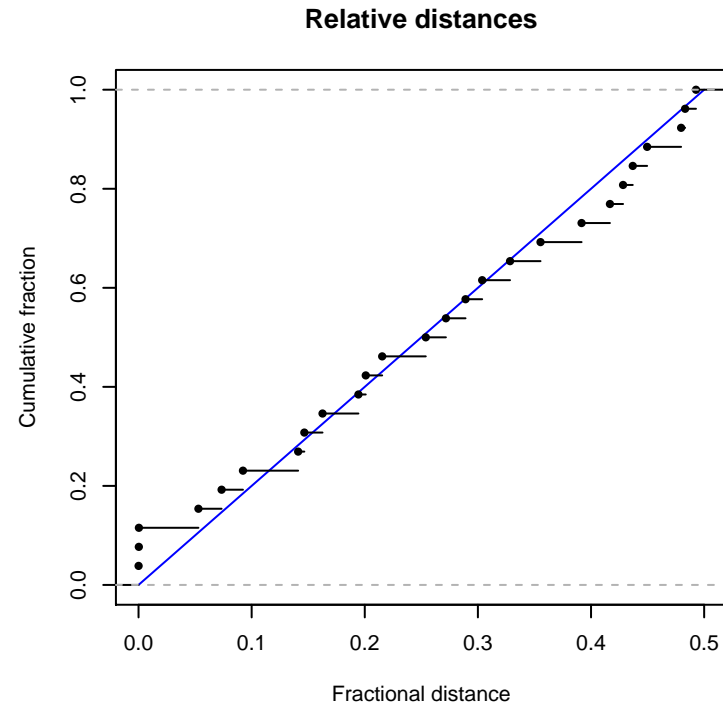
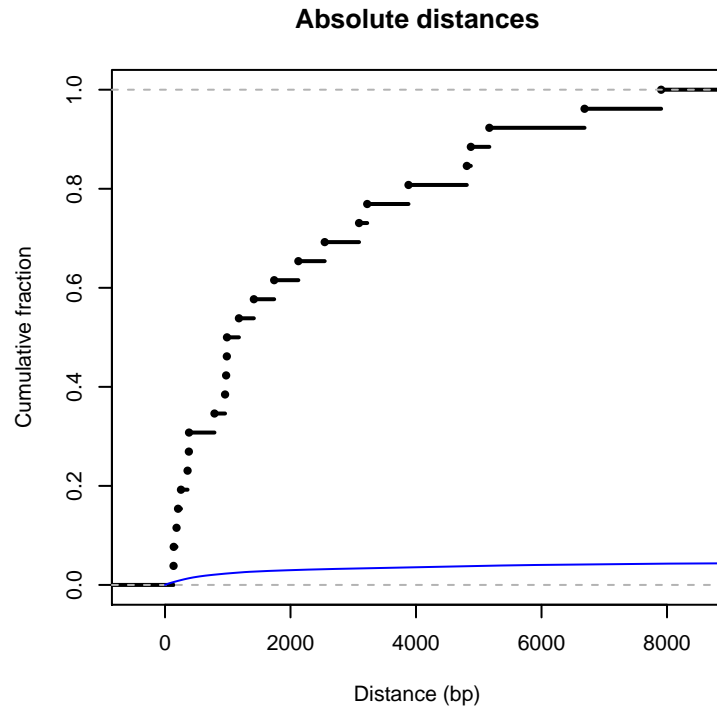
pcontig_112

Query population : 18
Reference population : 98
Relative Ks p-value : 0.728129
Relative ecdf deviation area : 0.0249517
Relative ecdf area correlation : -0.0589695
Relative ecdf deviation area p-value : 0.72
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.48424e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 13.3851



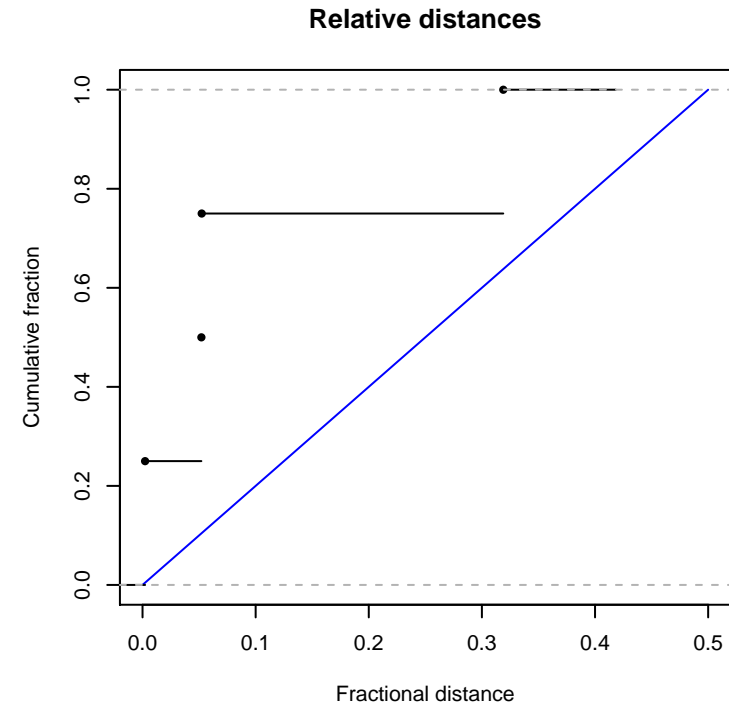
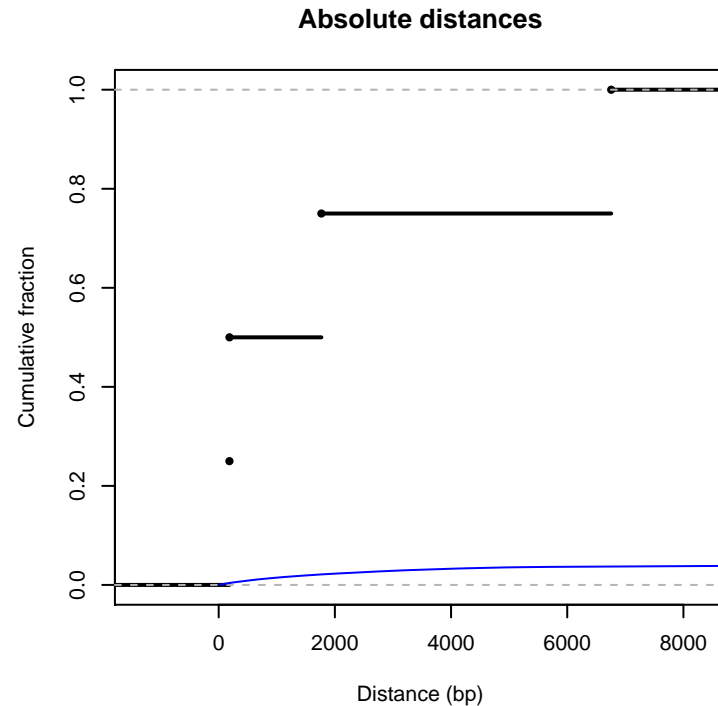
pcontig_115

Query population : 26
Reference population : 100
Relative Ks p-value : 0.845402
Relative ecdf deviation area : 0.0159328
Relative ecdf area correlation : -0.0248342
Relative ecdf deviation area p-value : 0.93
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.81062e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 18.806



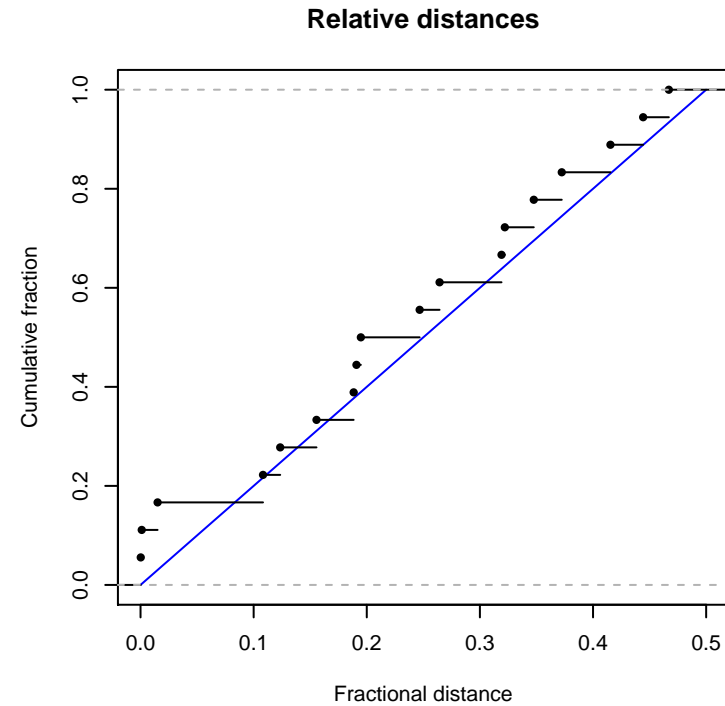
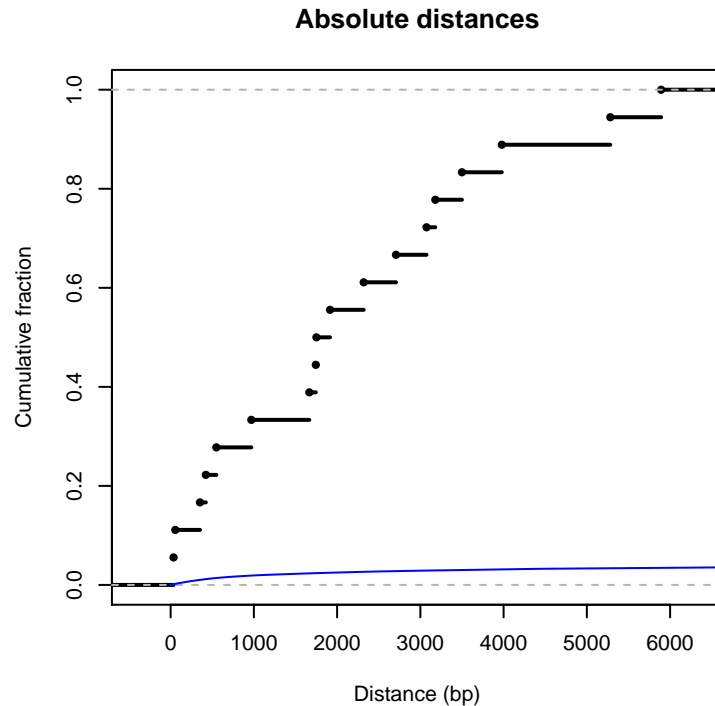
pcontig_118

Query population : 4
Reference population : 41
Relative Ks p-value : 0.0375292
Relative ecdf deviation area : 0.143933
Relative ecdf area correlation : 0.574507
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 : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 28.6553



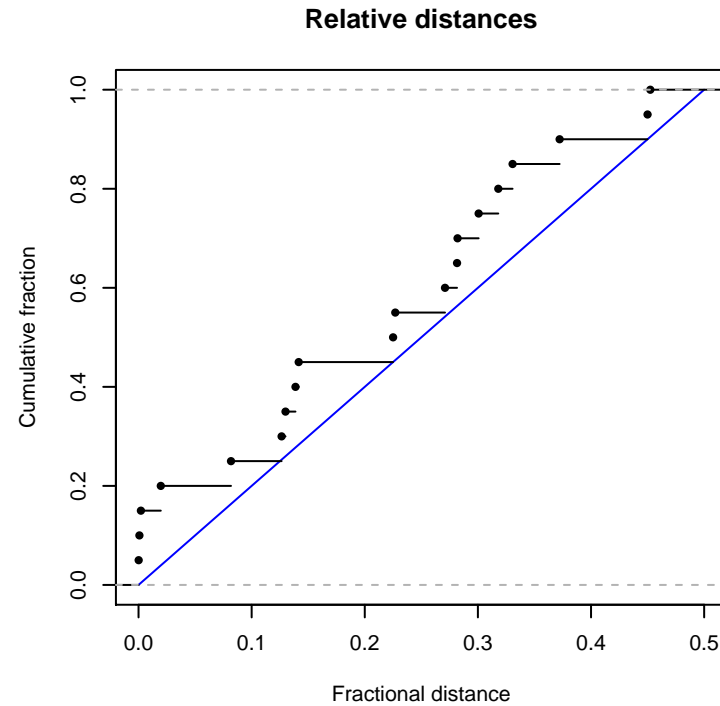
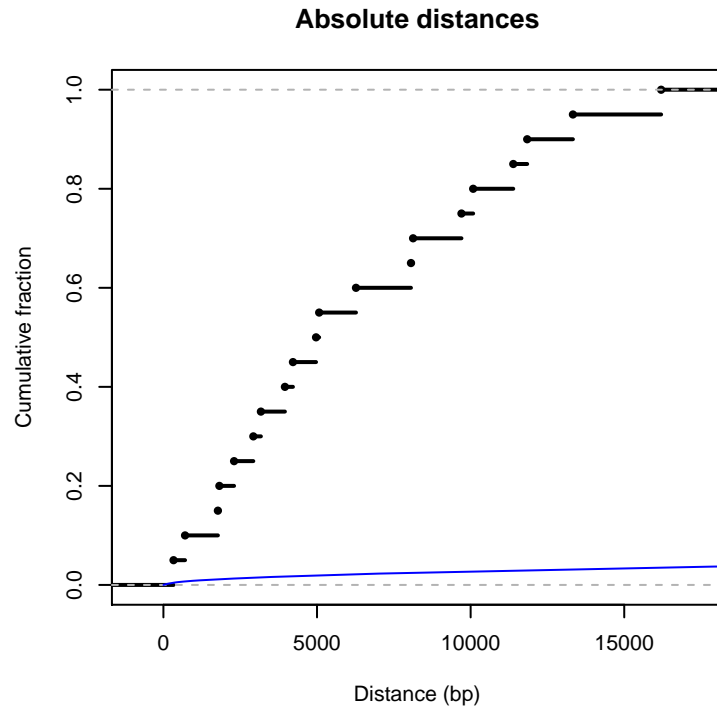
pcontig_120

Query population : 18
Reference population : 64
Relative Ks p-value : 0.846798
Relative ecdf deviation area : 0.0214527
Relative ecdf area correlation : 0.0718619
Relative ecdf deviation area p-value : 0.91
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.14735e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 19.507



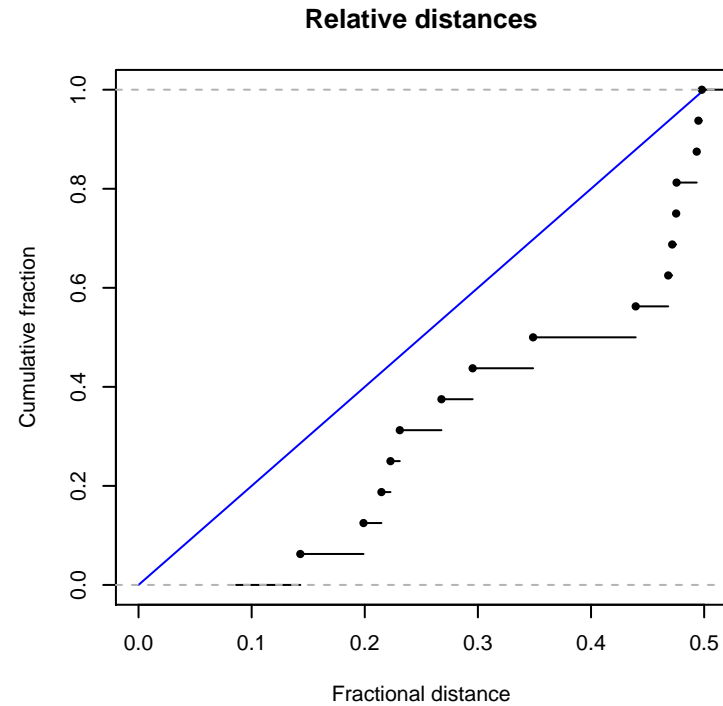
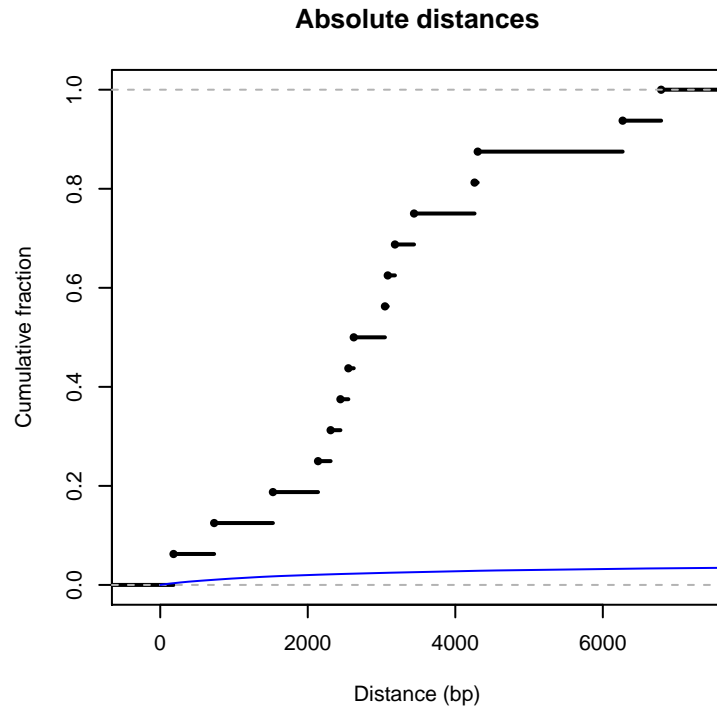
pcontig_129

Query population : 20
Reference population : 34
Relative Ks p-value : 0.42275
Relative ecdf deviation area : 0.0423519
Relative ecdf area correlation : 0.169681
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 : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00090735
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.3568



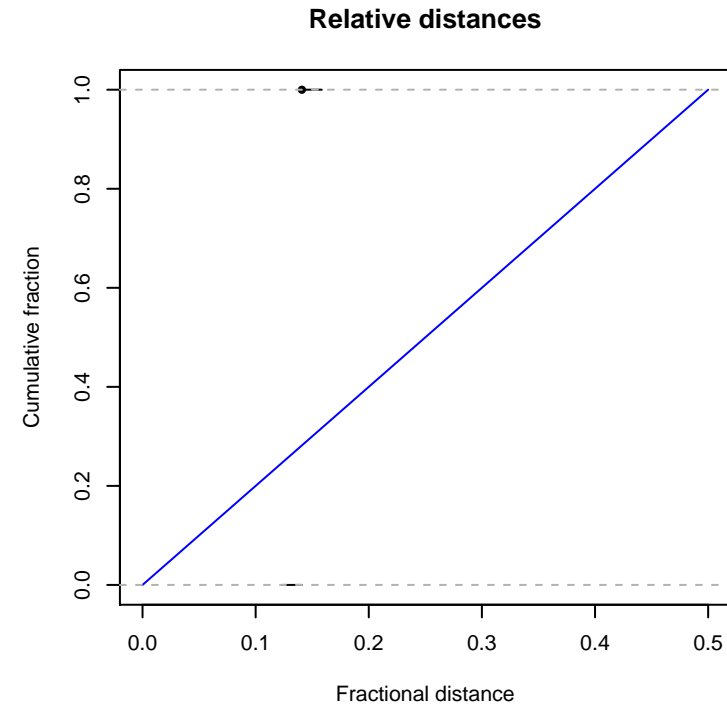
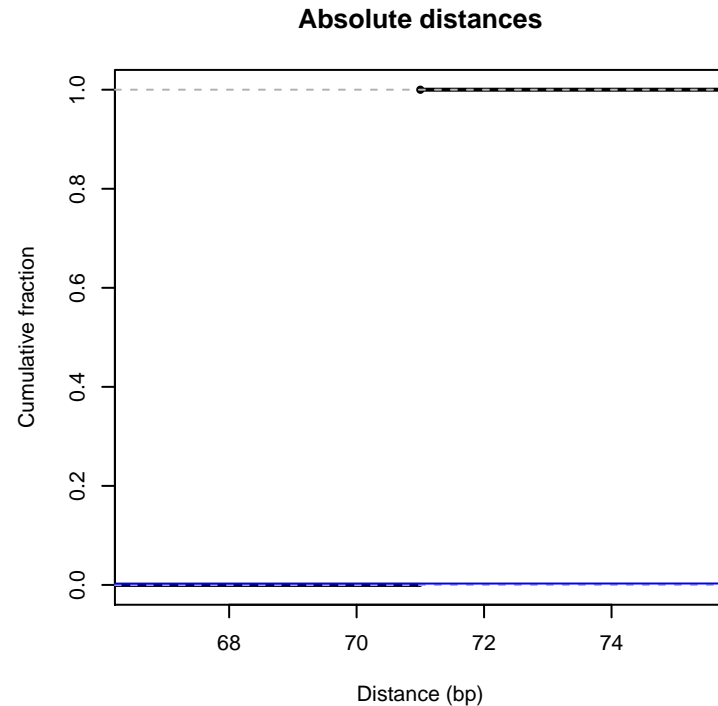
pcontig_130

Query population : 16
Reference population : 36
Relative Ks p-value : 0.0141844
Relative ecdf deviation area : 0.109682
Relative ecdf area correlation : -0.434735
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 30.9711



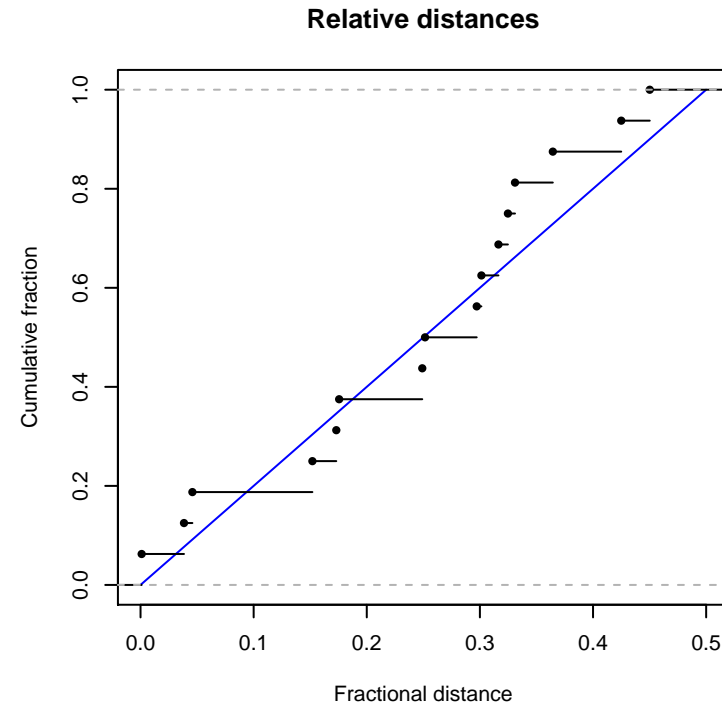
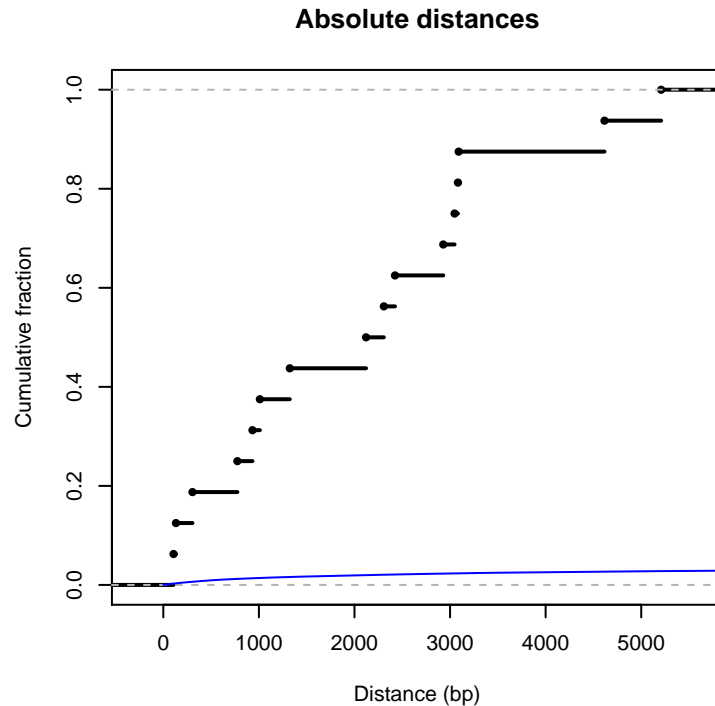
pcontig_134

Query population : 1
Reference population : 69
Relative Ks p-value : 0.563492
Relative ecdf deviation area : 0.148922
Relative ecdf area correlation : 0.436508
Relative ecdf deviation area p-value : 0.5
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 35.2867



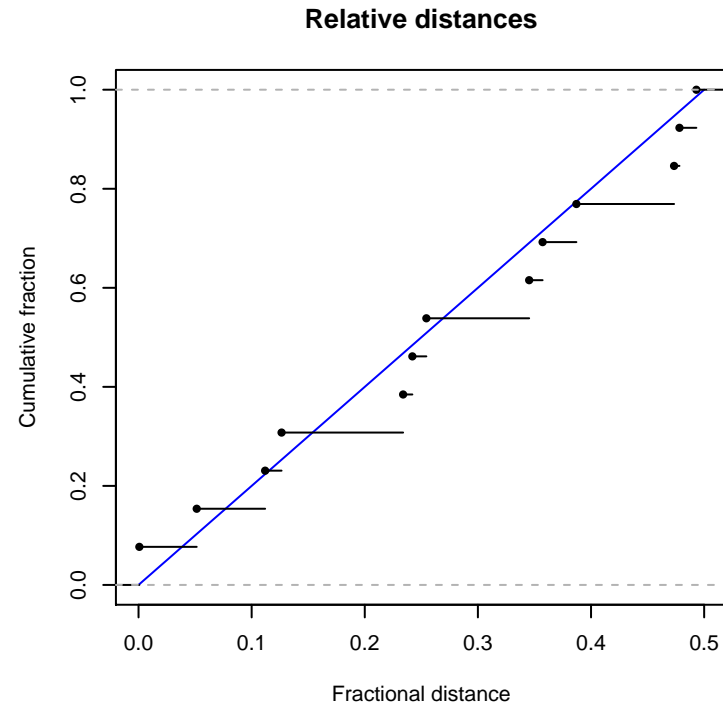
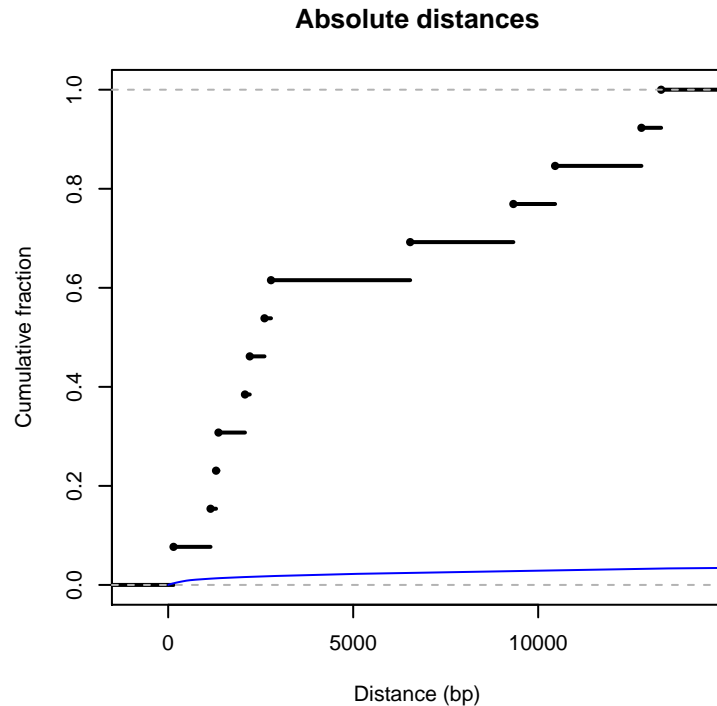
pcontig_138

Query population : 16
Reference population : 48
Relative Ks p-value : 0.811214
Relative ecdf deviation area : 0.0289641
Relative ecdf area correlation : 0.0258405
Relative ecdf deviation area p-value : 0.74
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 : 0.000481914
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.7285



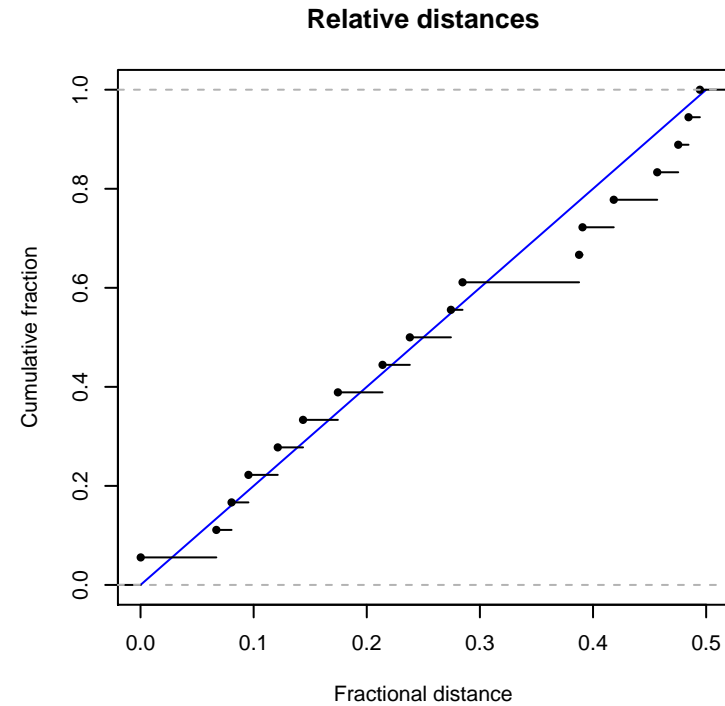
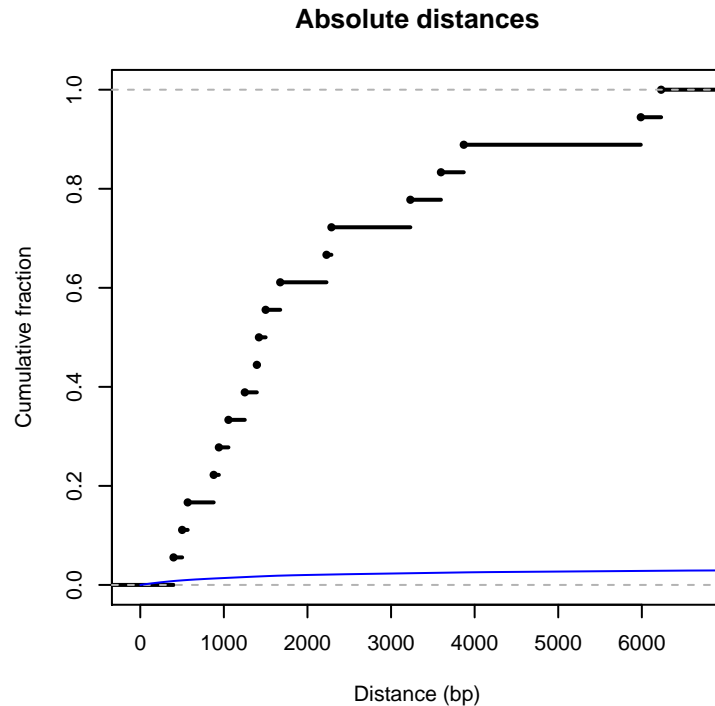
pcontig_139

Query population : 13
Reference population : 45
Relative Ks p-value : 0.74447
Relative ecdf deviation area : 0.029964
Relative ecdf area correlation : -0.0939192
Relative ecdf deviation area p-value : 0.68
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.87037e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 36.2245



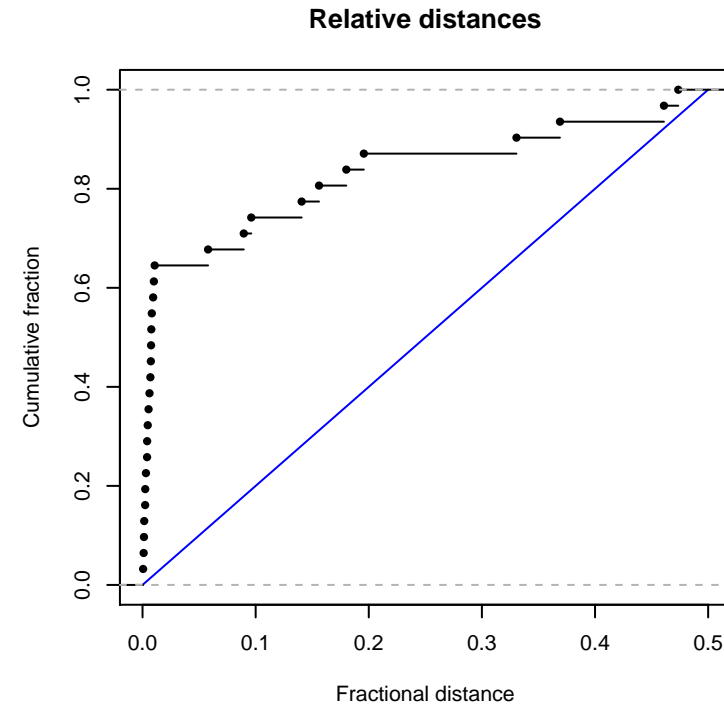
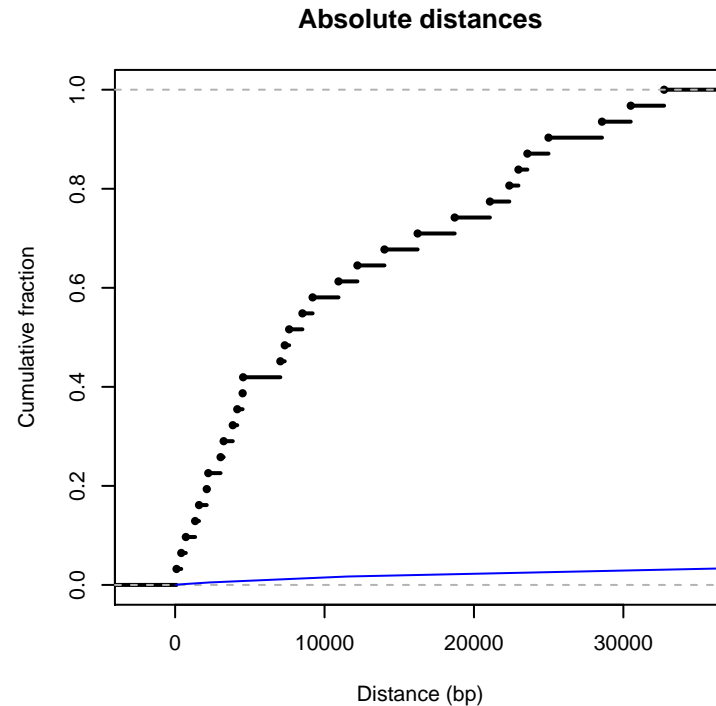
pcontig_140

Query population : 18
Reference population : 40
Relative Ks p-value : 0.657408
Relative ecdf deviation area : 0.0221233
Relative ecdf area correlation : -0.0669475
Relative ecdf deviation area p-value : 0.91
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000107149
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.7065



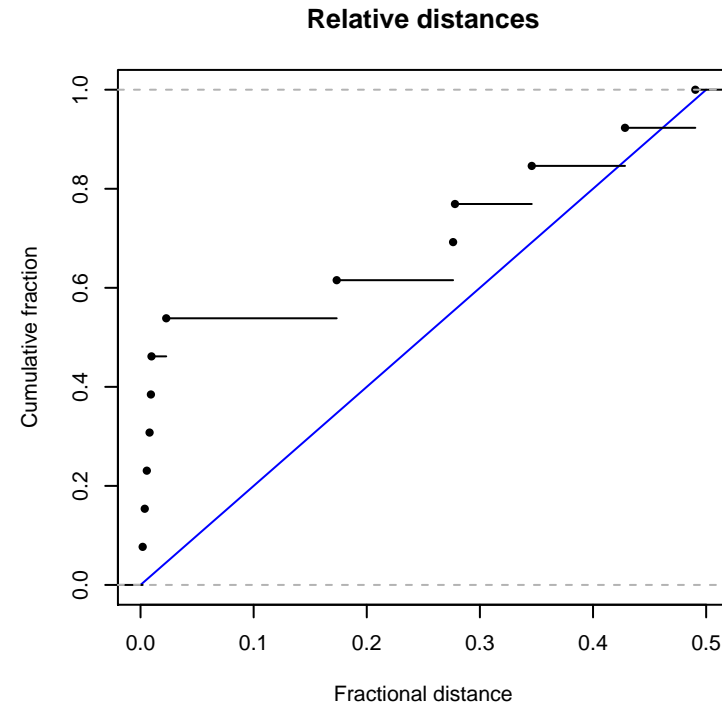
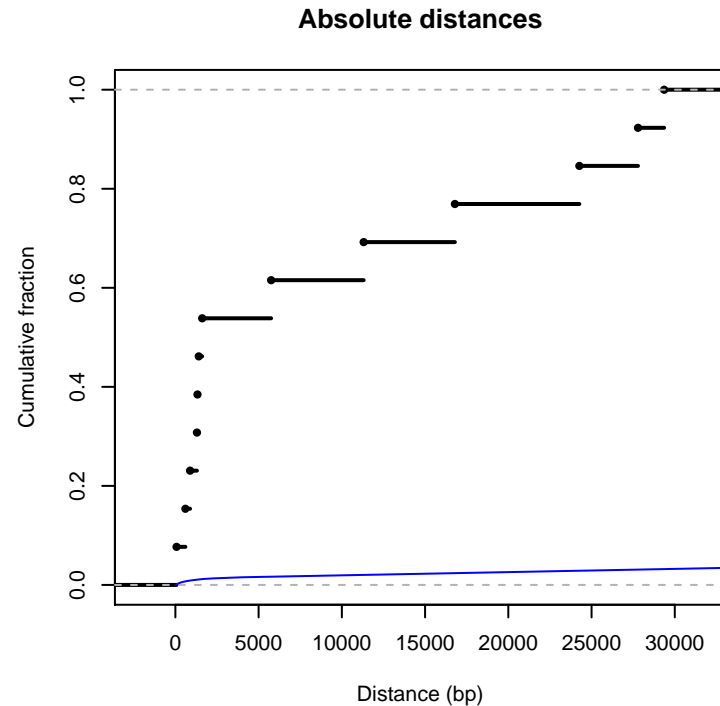
pcontig_146

Query population : 31
Reference population : 8
Relative Ks p-value : $3.5848e-12$
Relative ecdf deviation area : 0.164577
Relative ecdf area correlation : 0.657528
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 : 0.000931131
Projection test lower tail : FALSE
Projection test observed to expected ratio : 22.4824



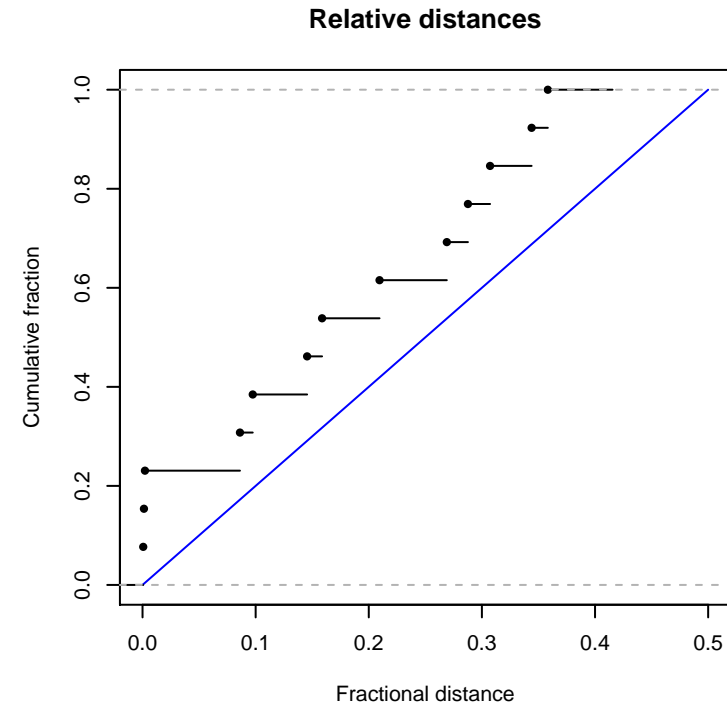
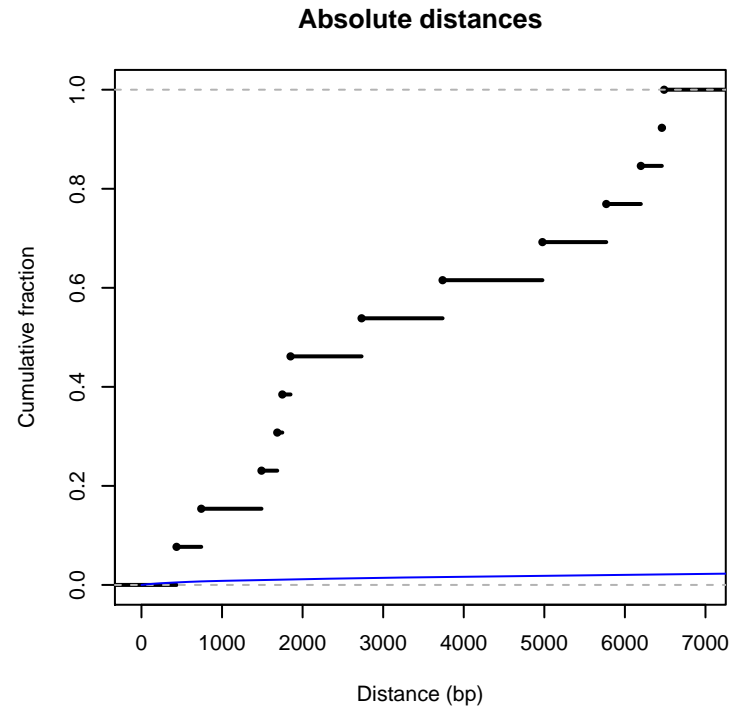
pcontig_147

Query population : 13
Reference population : 30
Relative Ks p-value : 0.00193564
Relative ecdf deviation area : 0.0936058
Relative ecdf area correlation : 0.368321
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 : 0.000114071
Projection test lower tail : FALSE
Projection test observed to expected ratio : 20.5115



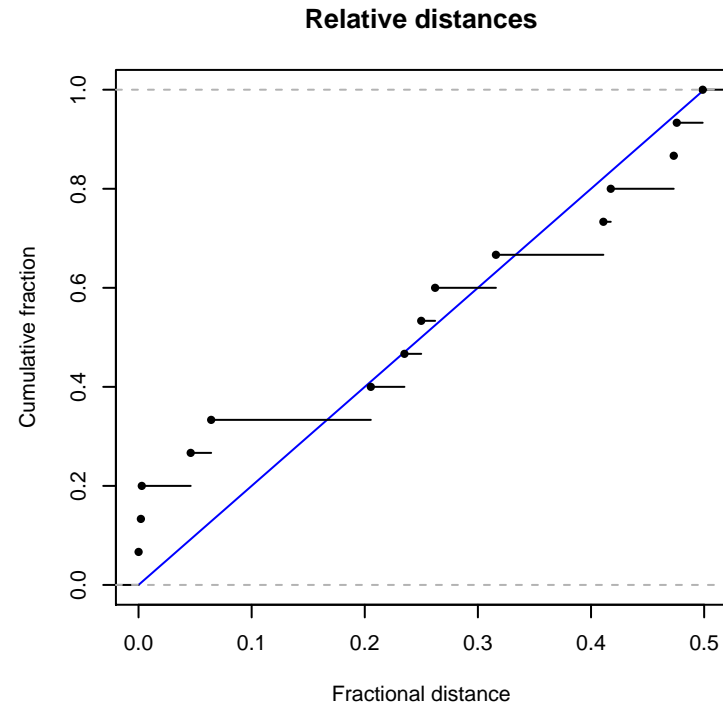
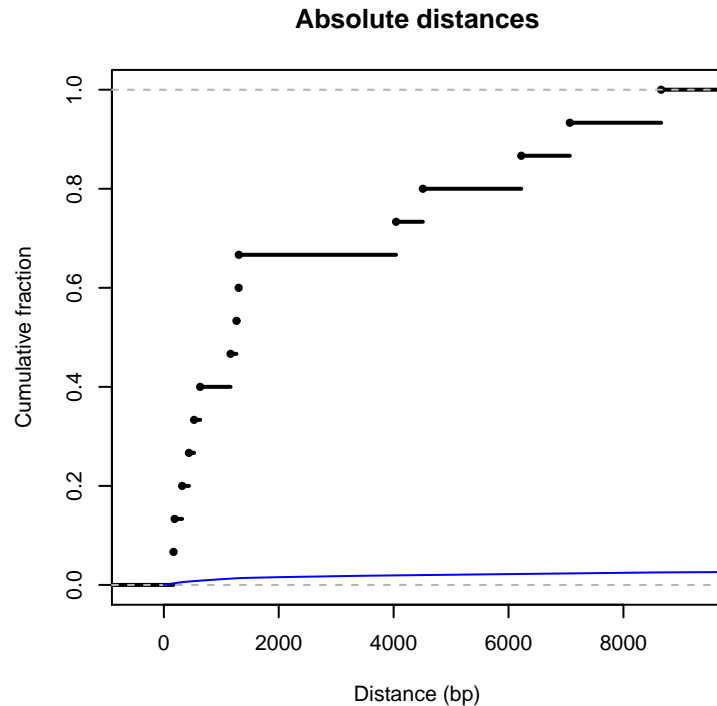
pcontig_148

Query population : 13
Reference population : 32
Relative Ks p-value : 0.203857
Relative ecdf deviation area : 0.0756879
Relative ecdf area correlation : 0.302333
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 : 1.46288e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 39.1103



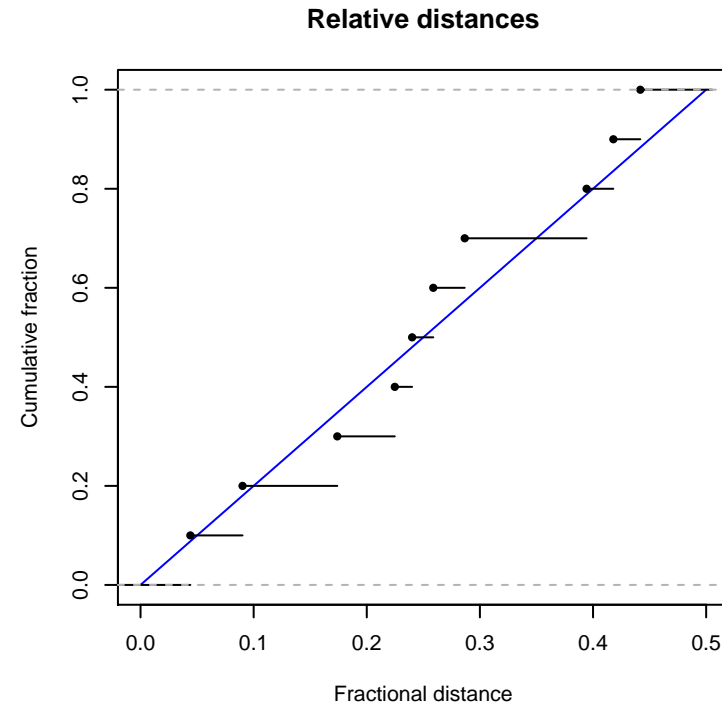
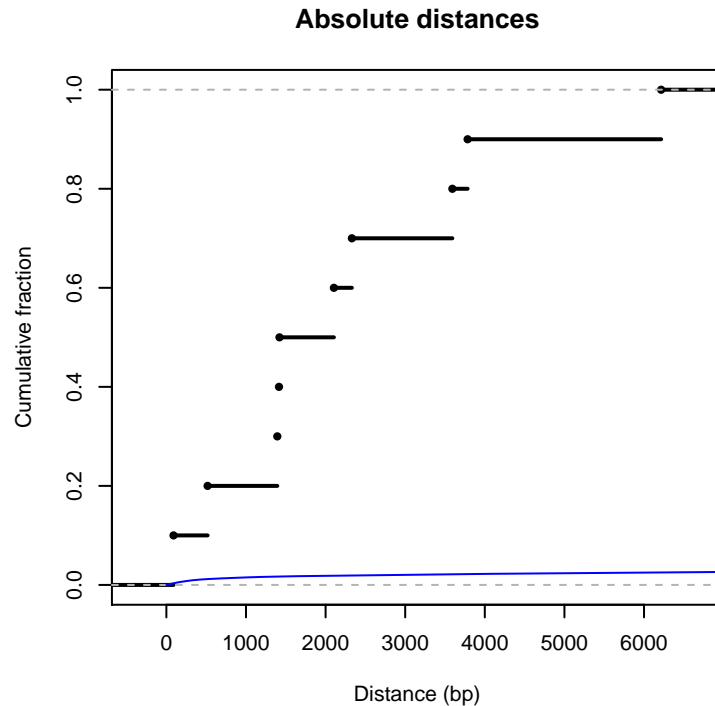
pcontig_149

Query population : 15
Reference population : 42
Relative Ks p-value : 0.49158
Relative ecdf deviation area : 0.0384663
Relative ecdf area correlation : 0.024055
Relative ecdf deviation area p-value : 0.51
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.53022e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 41.5113



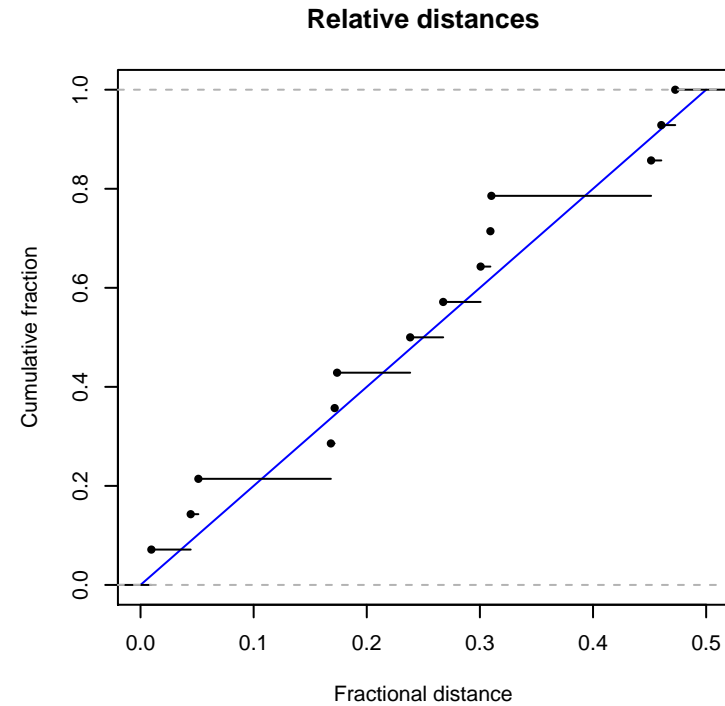
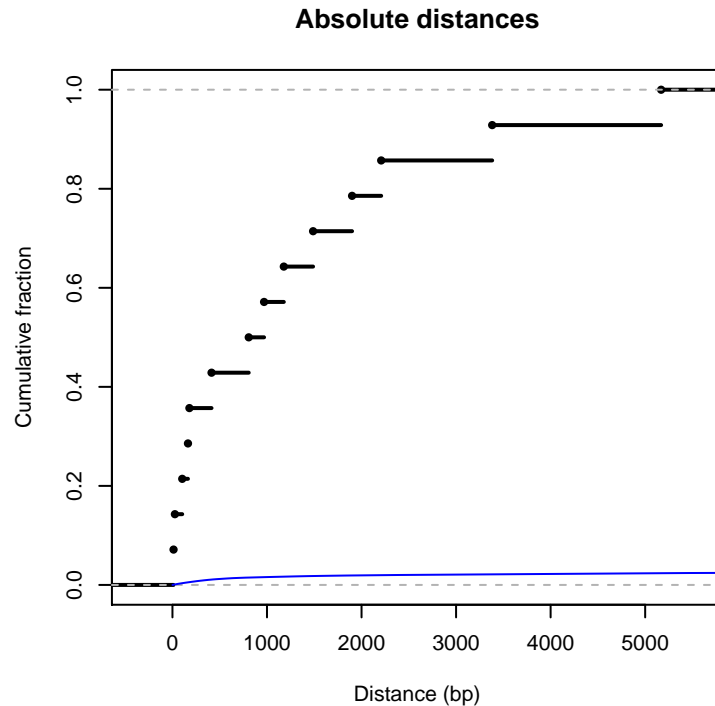
pcontig_150

Query population : 10
Reference population : 66
Relative Ks p-value : 0.955037
Relative ecdf deviation area : 0.027753
Relative ecdf area correlation : -0.0289757
Relative ecdf deviation area p-value : 0.92
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000274348
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.8265



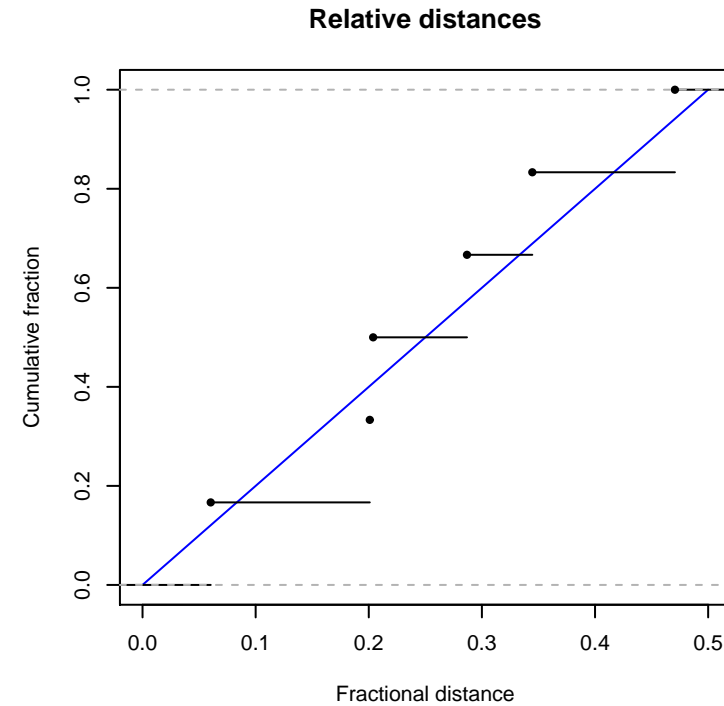
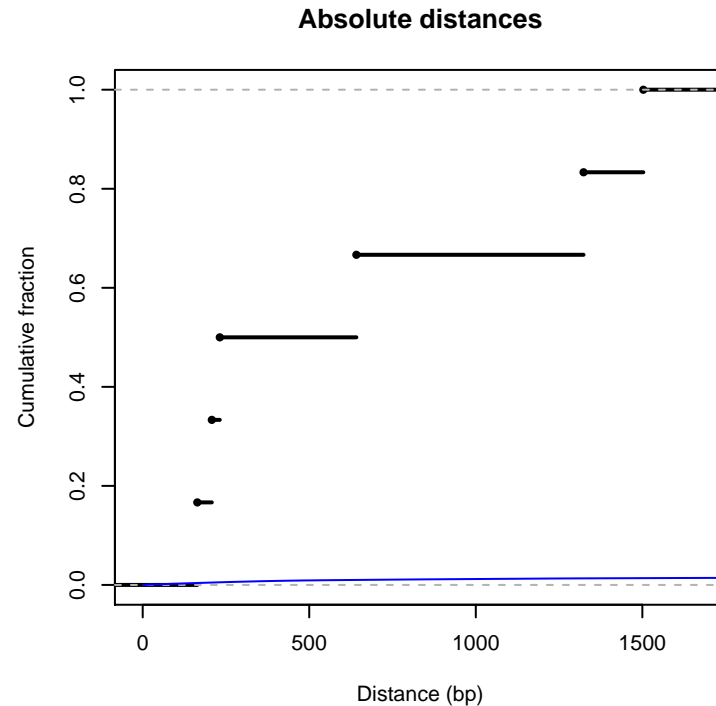
pcontig_152

Query population : 14
Reference population : 64
Relative Ks p-value : 0.781288
Relative ecdf deviation area : 0.0239383
Relative ecdf area correlation : 0.0202621
Relative ecdf deviation area p-value : 0.9
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.63544e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 29.1676



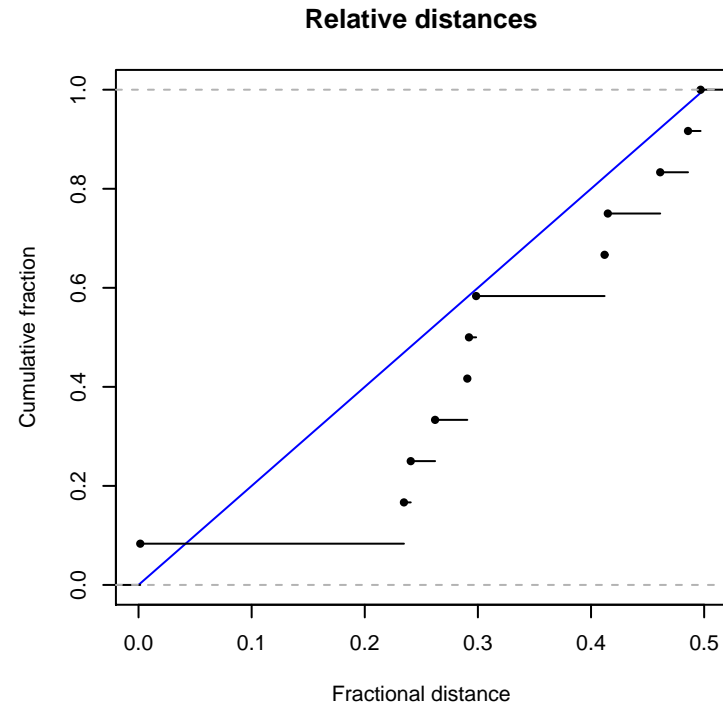
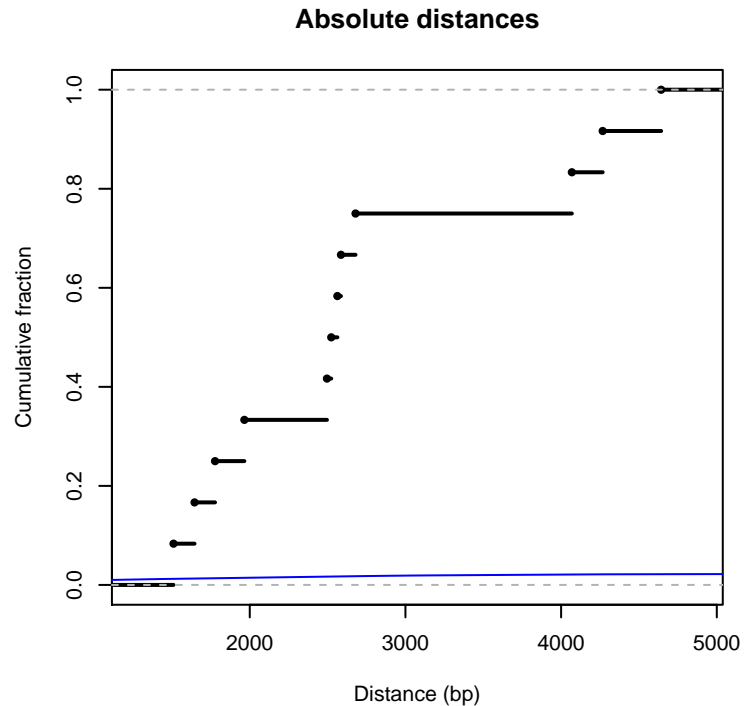
pcontig_154

Query population : 6
Reference population : 46
Relative Ks p-value : 0.827195
Relative ecdf deviation area : 0.0329144
Relative ecdf area correlation : -0.0446776
Relative ecdf deviation area p-value : 0.97
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.38085e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 31.1999



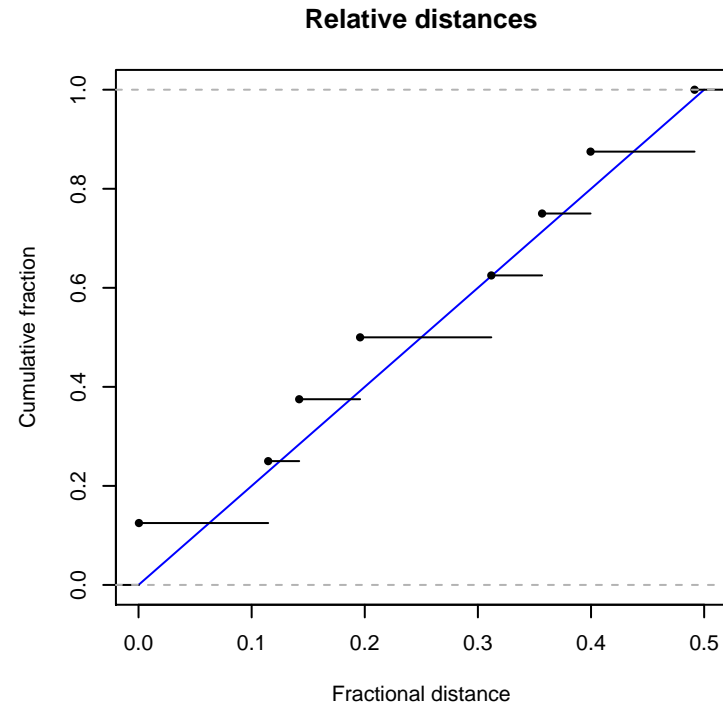
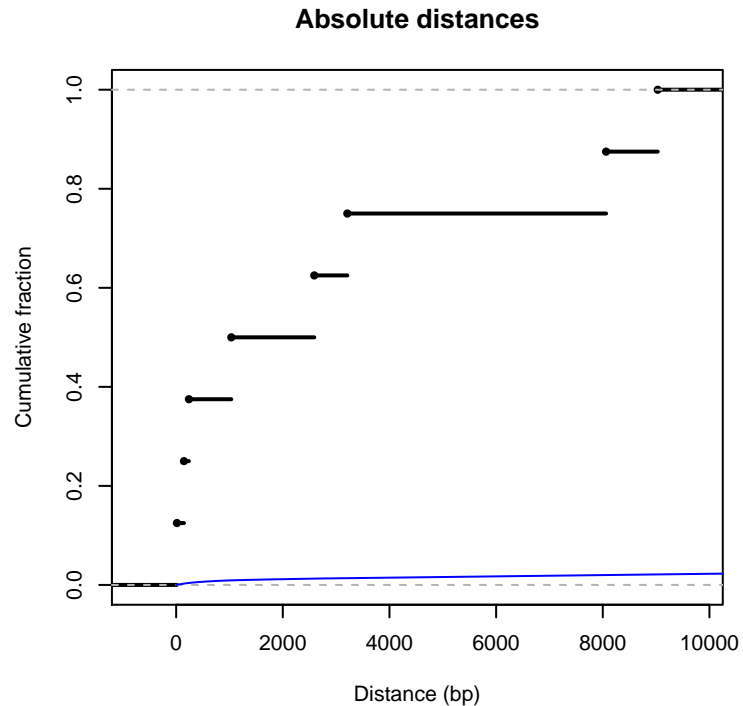
pcontig_157

Query population : 12
Reference population : 33
Relative Ks p-value : 0.0405522
Relative ecdf deviation area : 0.0773657
Relative ecdf area correlation : -0.296908
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 : 1.25444e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 38.6817



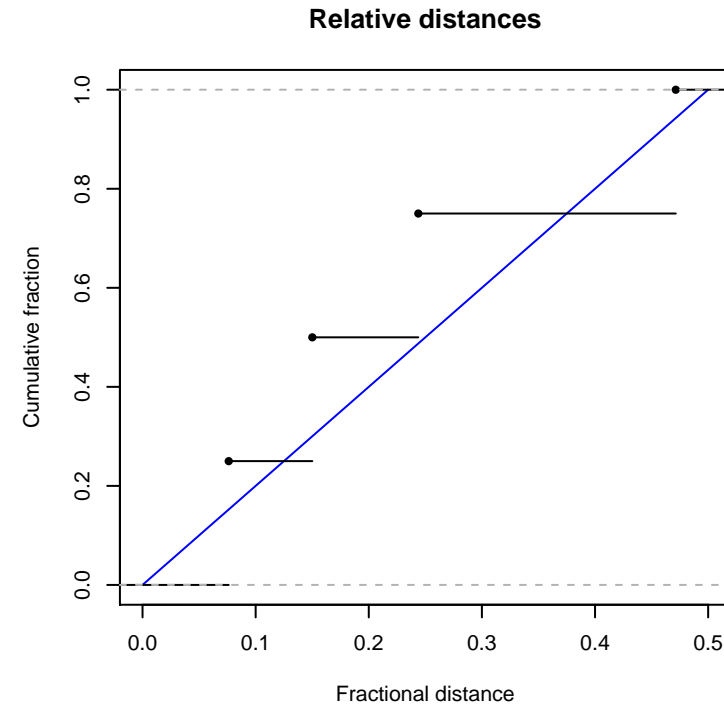
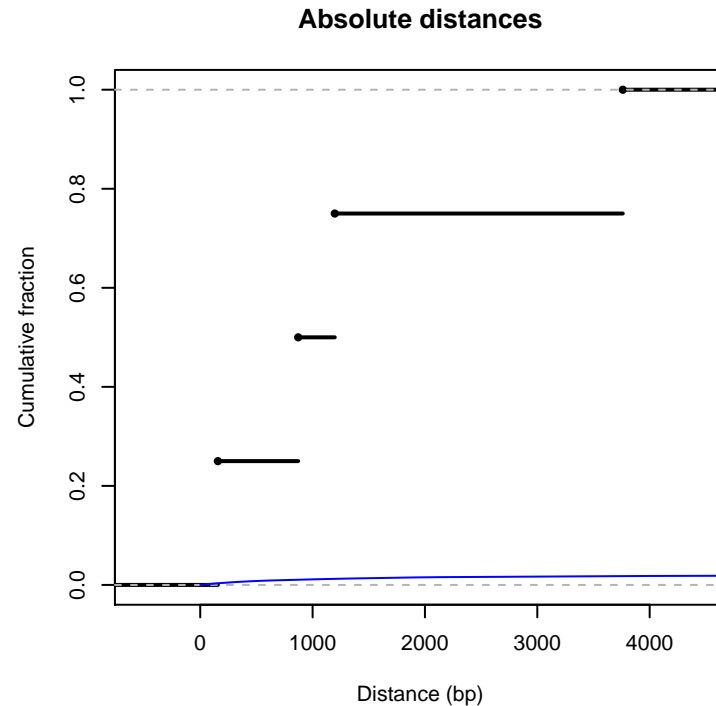
pcontig_163

Query population : 8
Reference population : 38
Relative Ks p-value : 0.9978
Relative ecdf deviation area : 0.0231609
Relative ecdf area correlation : -0.00625702
Relative ecdf deviation area p-value : 0.99
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 : 2.93723e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 46.2913



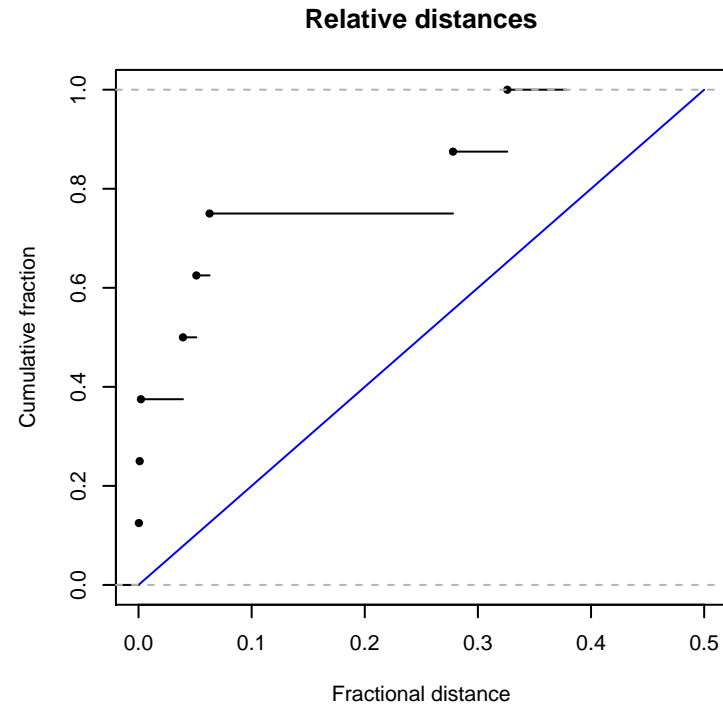
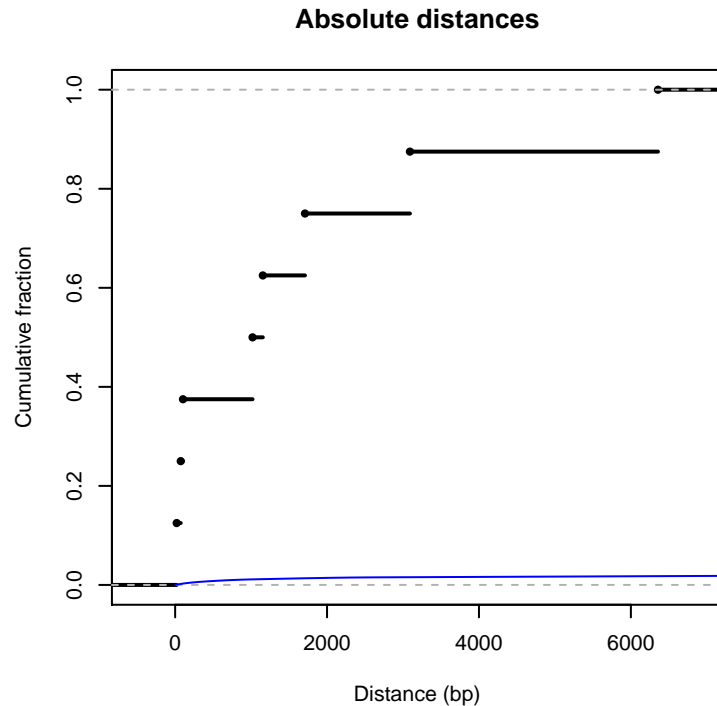
pcontig_164

Query population : 4
Reference population : 42
Relative Ks p-value : 0.876681
Relative ecdf deviation area : 0.0459727
Relative ecdf area correlation : 0.0585425
Relative ecdf deviation area p-value : 0.91
Scaled Absolute min. distance p-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 : 72.547



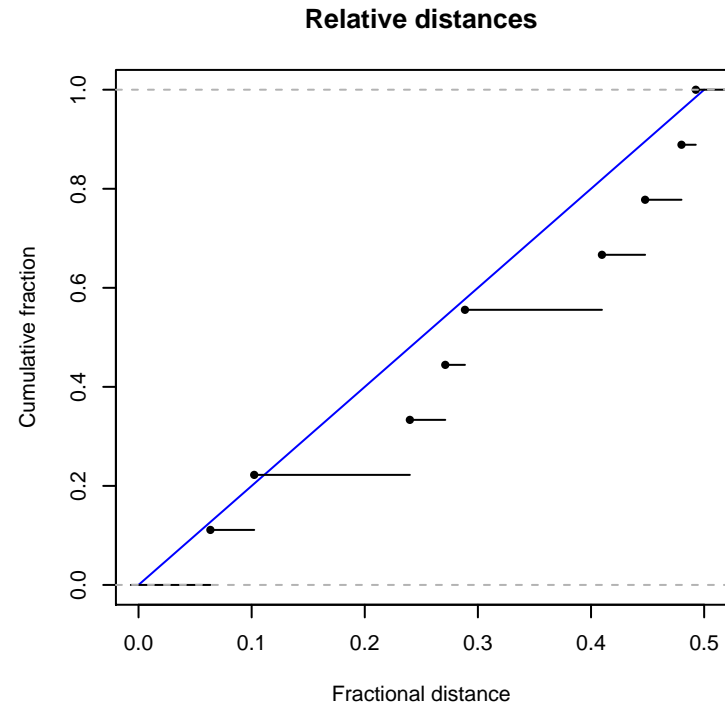
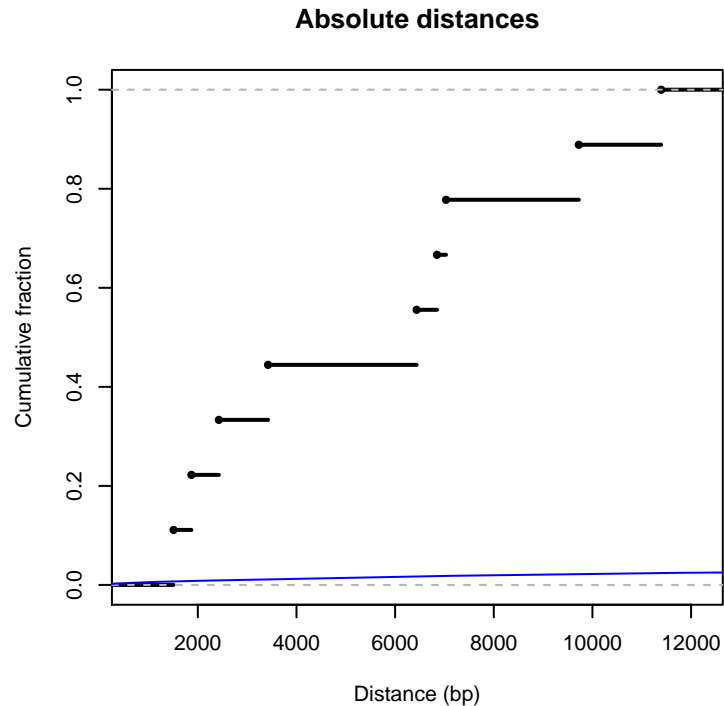
pcontig_165

Query population : 8
Reference population : 51
Relative Ks p-value : 0.00153132
Relative ecdf deviation area : 0.155236
Relative ecdf area correlation : 0.619654
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 : 8.33608e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 45.9241



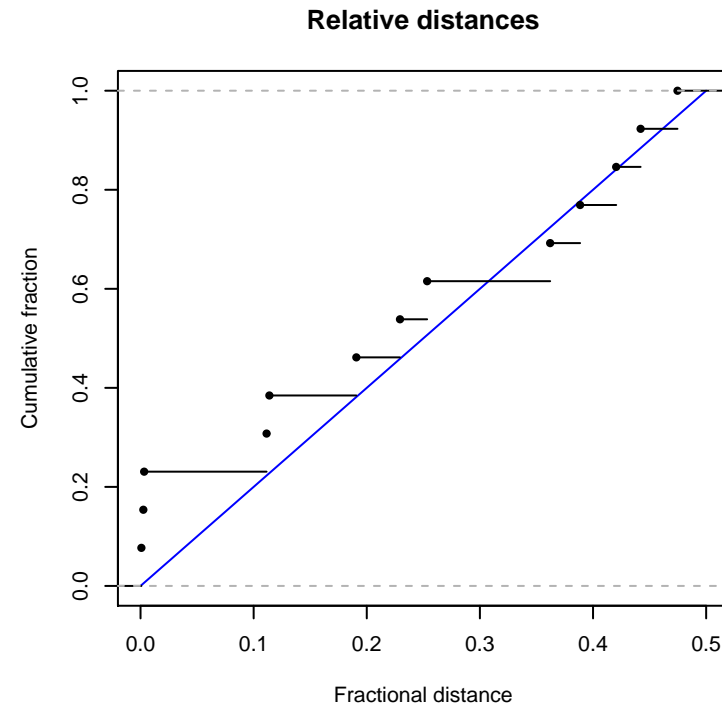
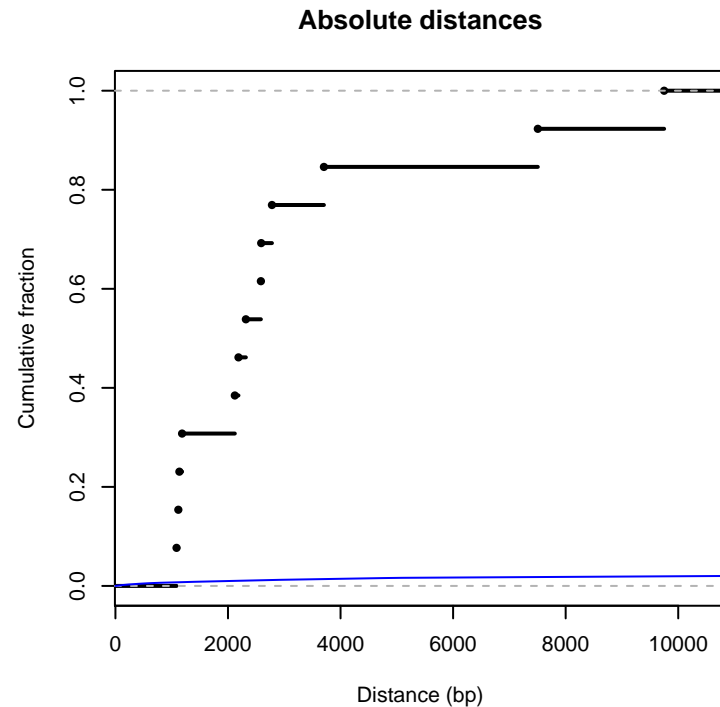
pcontig_166

Query population : 9
Reference population : 17
Relative Ks p-value : 0.479986
Relative ecdf deviation area : 0.0605871
Relative ecdf area correlation : -0.242409
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 : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0478956
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



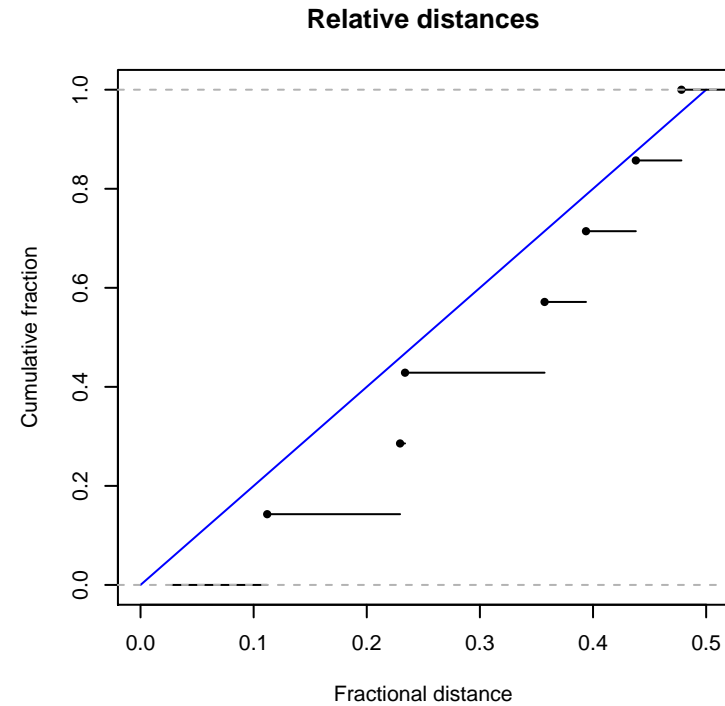
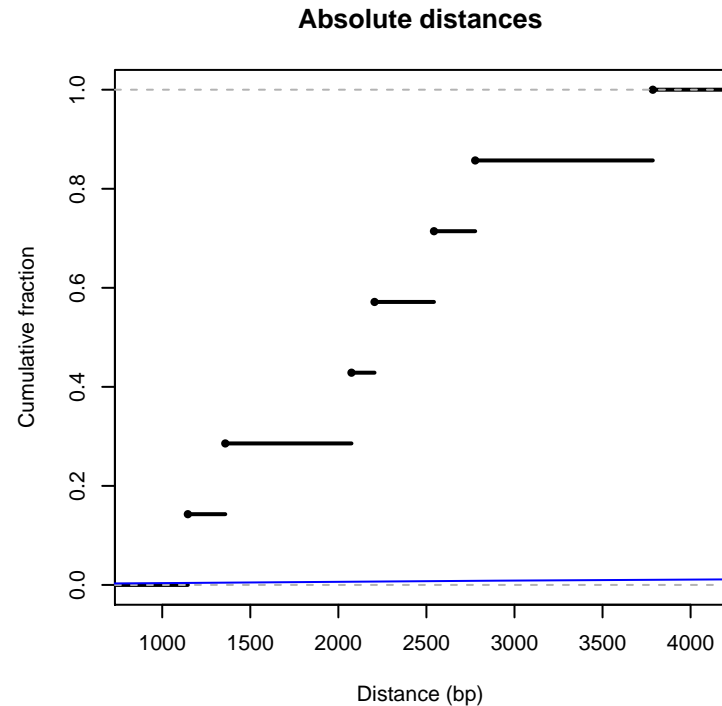
pcontig_170

Query population : 13
Reference population : 25
Relative Ks p-value : 0.463491
Relative ecdf deviation area : 0.0325435
Relative ecdf area correlation : 0.0790197
Relative ecdf deviation area p-value : 0.6
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.53597e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 43.3001



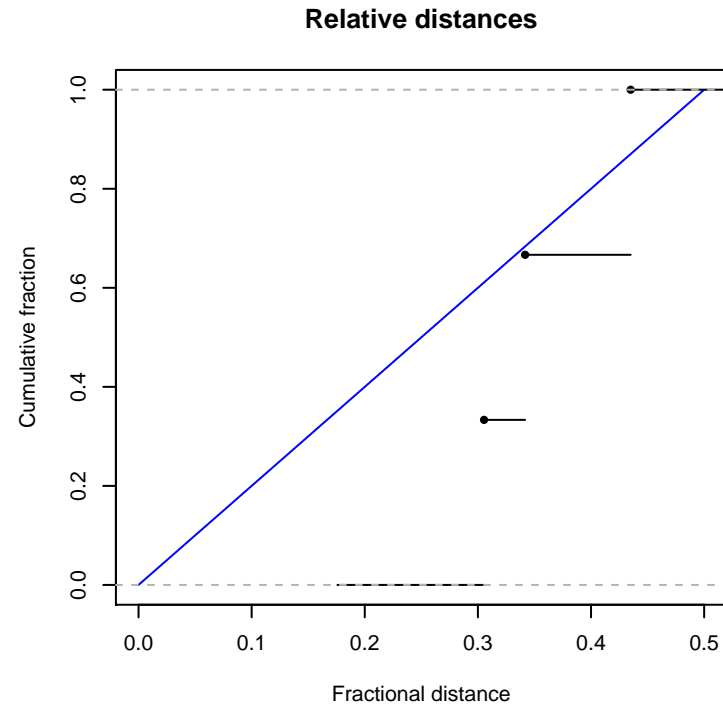
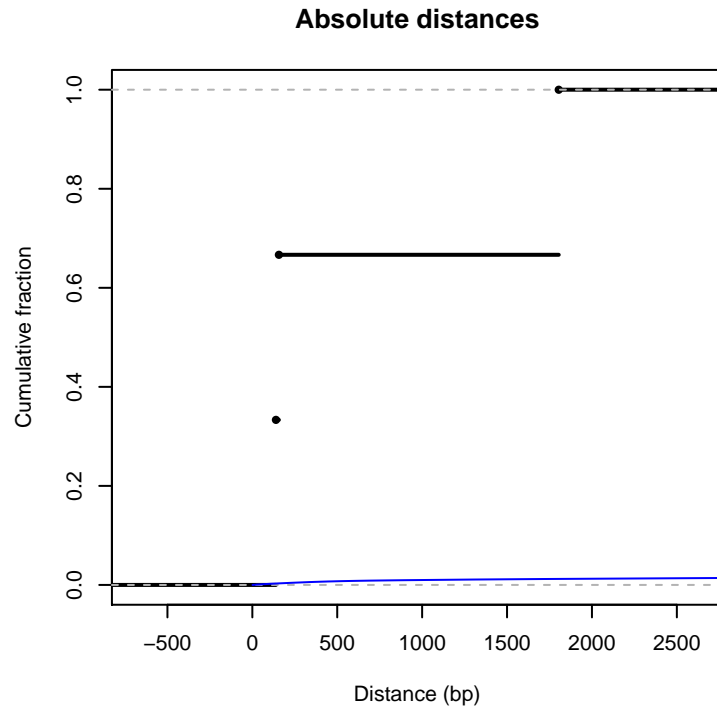
pcontig_171

Query population : 7
Reference population : 13
Relative Ks p-value : 0.403378
Relative ecdf deviation area : 0.0713951
Relative ecdf area correlation : -0.281238
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 : 1.10201e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 97.1028



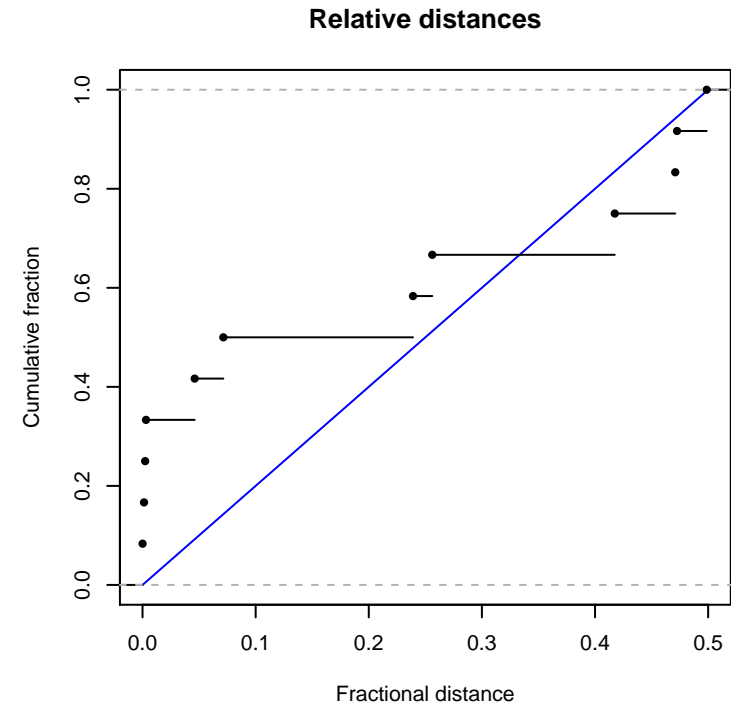
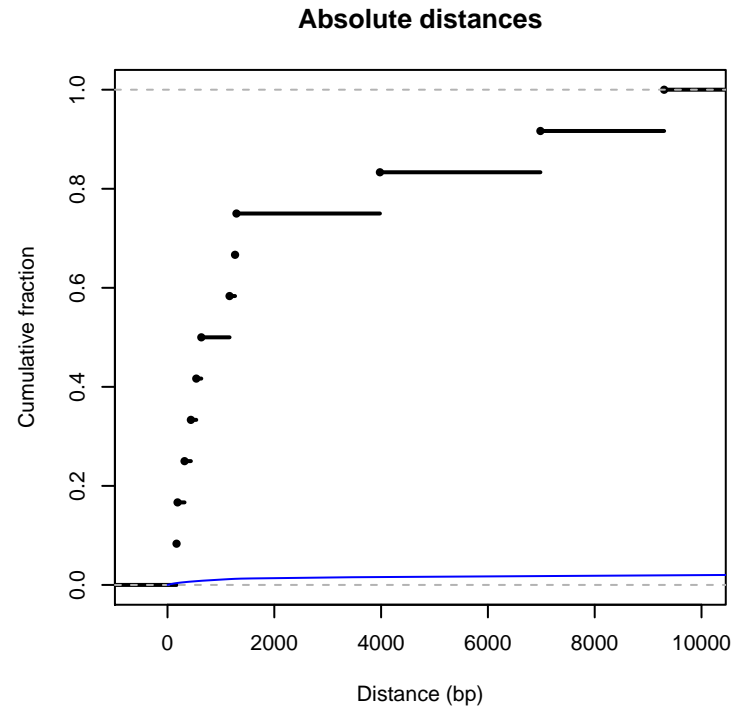
pcontig_172

Query population : 3
Reference population : 40
Relative Ks p-value : 0.129261
Relative ecdf deviation area : 0.118858
Relative ecdf area correlation : -0.442922
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 : 62.9765



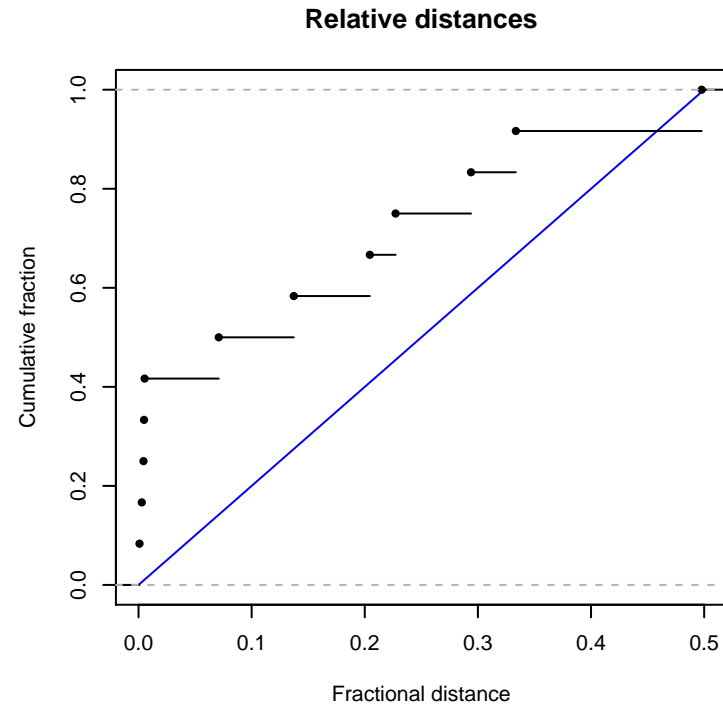
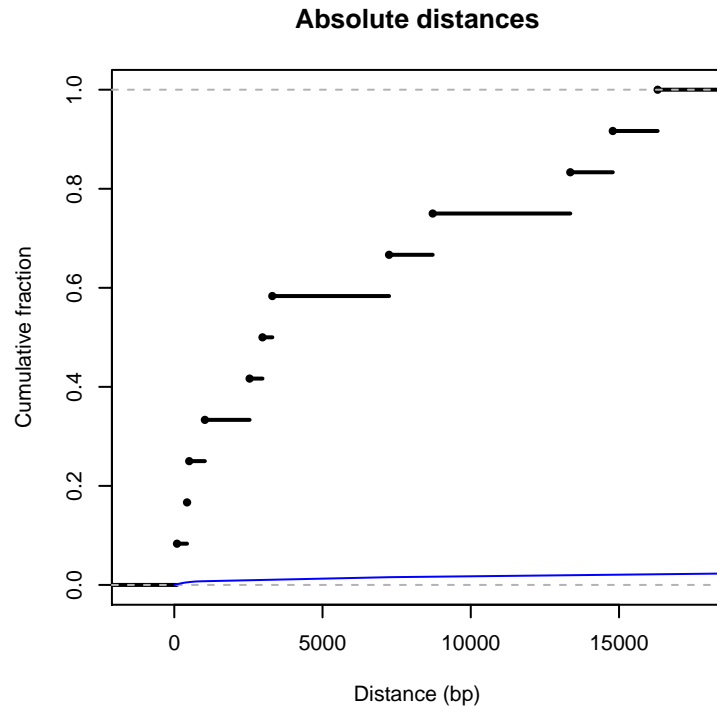
pcontig_173

Query population : 12
Reference population : 45
Relative Ks p-value : 0.070904
Relative ecdf deviation area : 0.0758361
Relative ecdf area correlation : 0.173673
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 : 1.108e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 52.4847



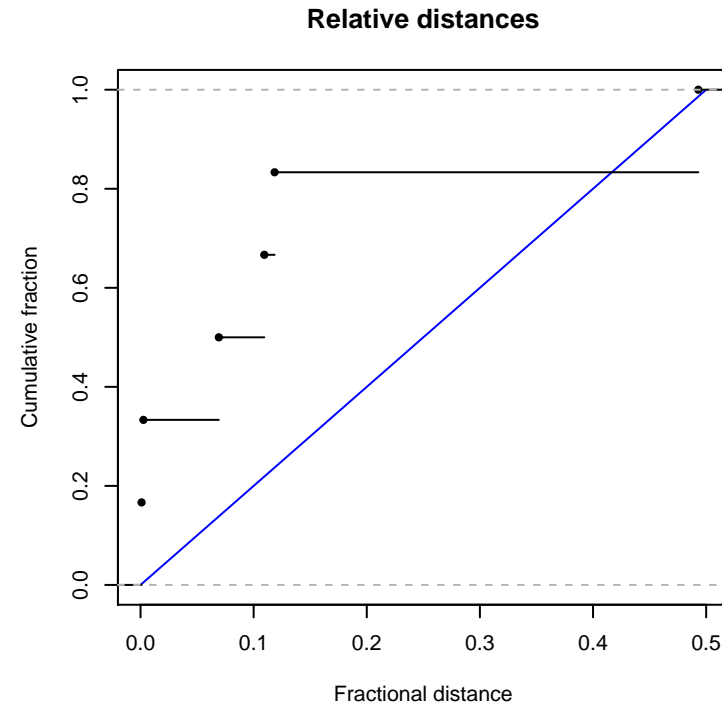
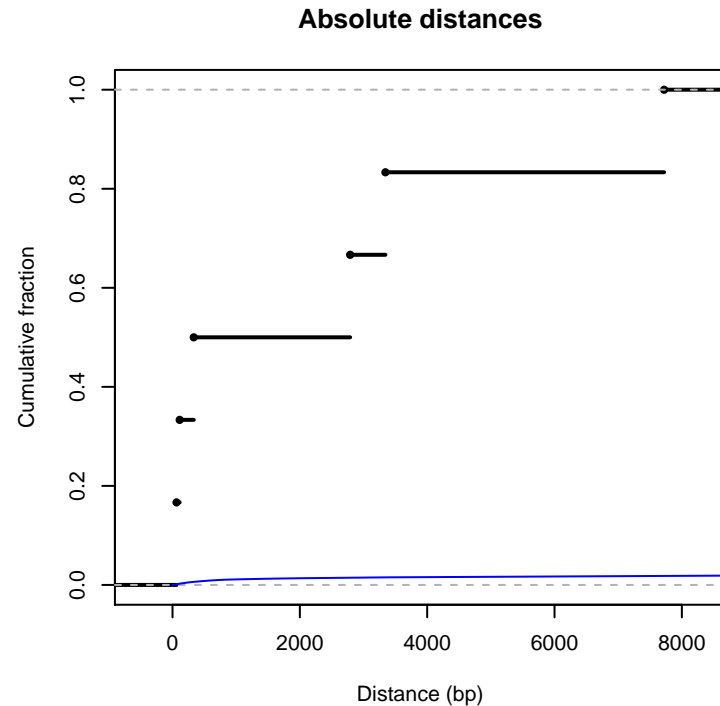
pcontig_174

Query population : 12
Reference population : 34
Relative Ks p-value : 0.0267167
Relative ecdf deviation area : 0.104999
Relative ecdf area correlation : 0.405505
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 : 1.04888e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 49.5521



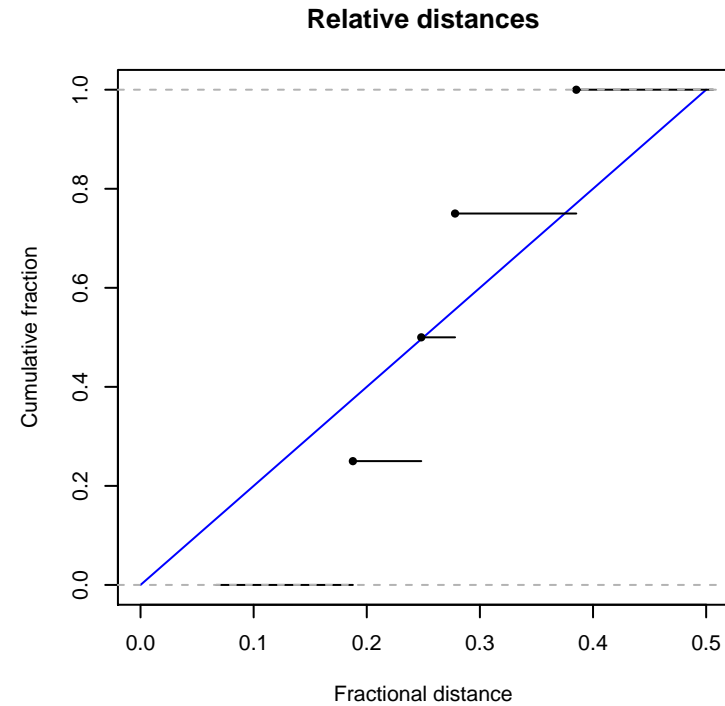
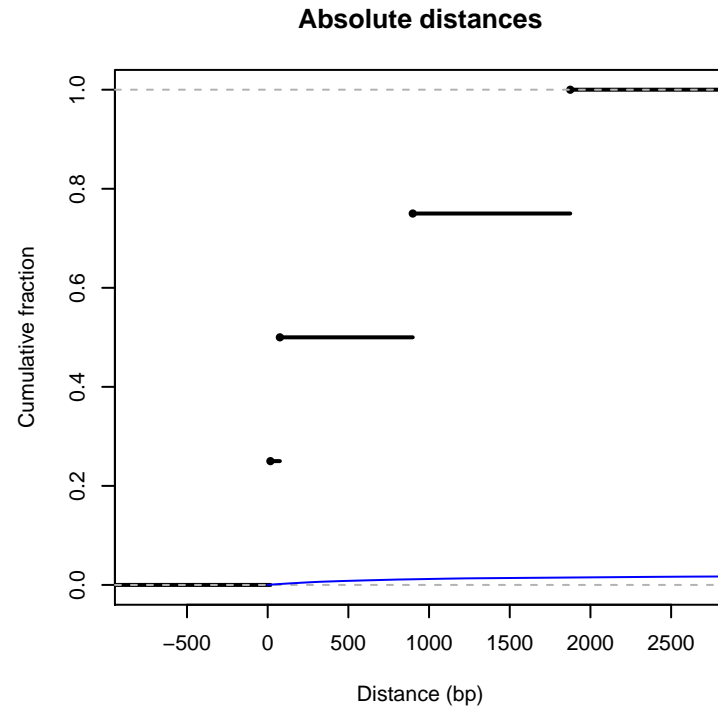
pcontig_176

Query population : 6
Reference population : 46
Relative Ks p-value : 0.0144273
Relative ecdf deviation area : 0.129081
Relative ecdf area correlation : 0.470844
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 : 9.54624e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 55.7792



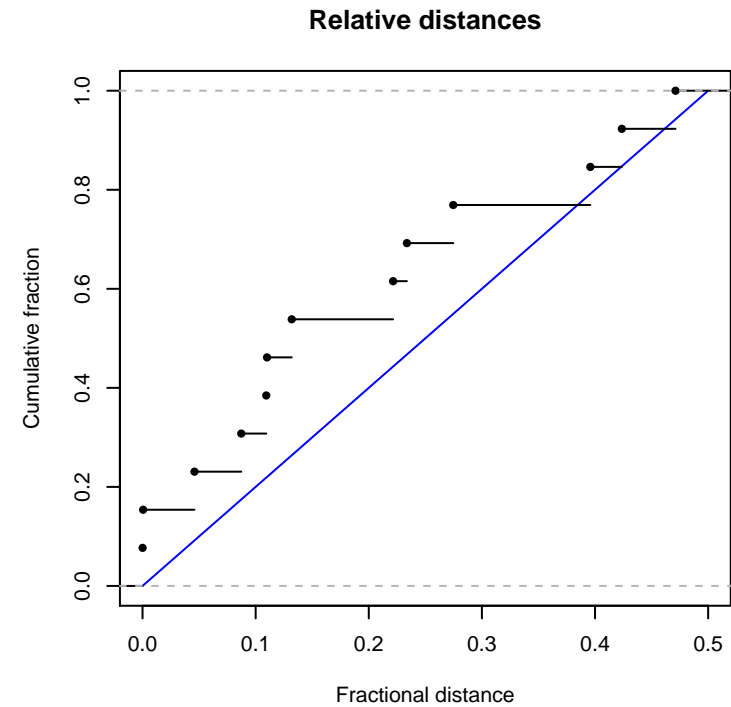
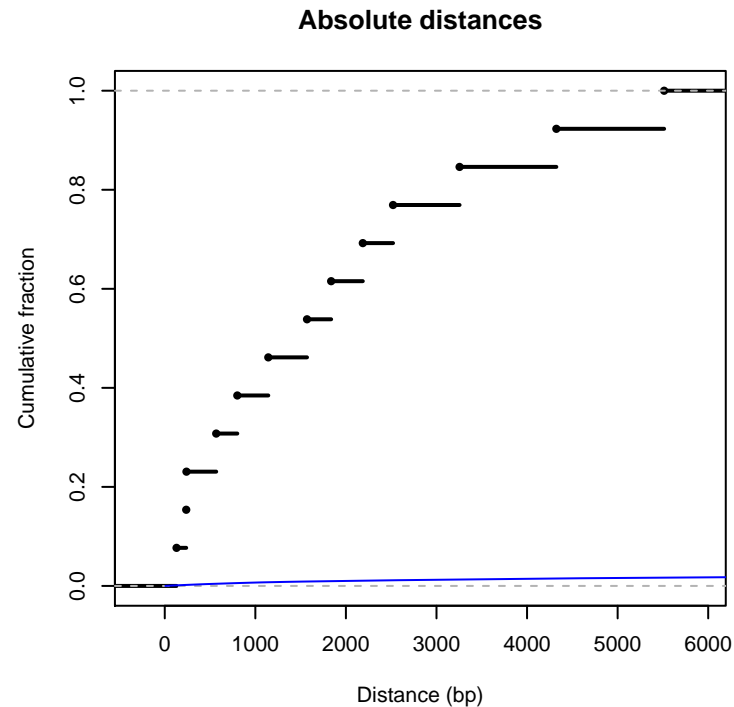
pcontig_177

Query population : 4
Reference population : 53
Relative Ks p-value : 0.518166
Relative ecdf deviation area : 0.0696468
Relative ecdf area correlation : -0.0991271
Relative ecdf deviation area p-value : 0.56
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.79444e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 58.008



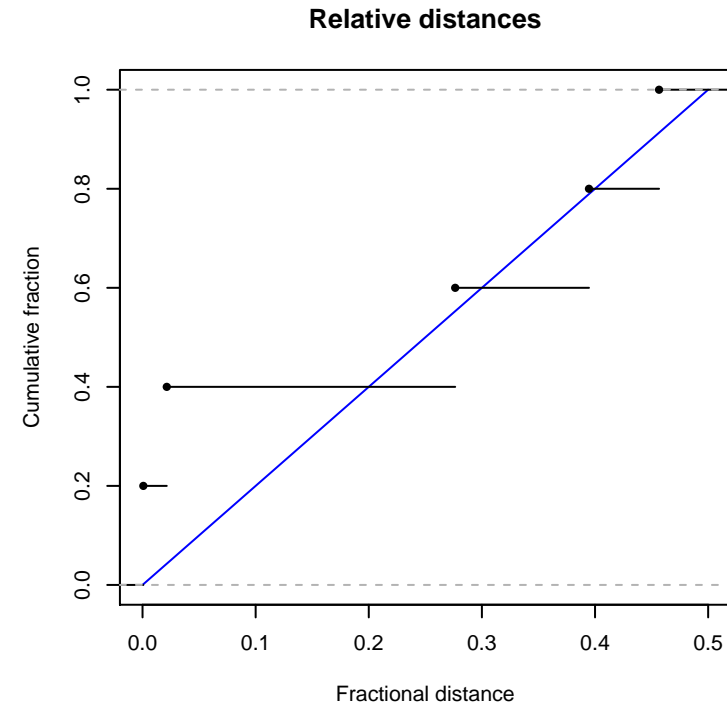
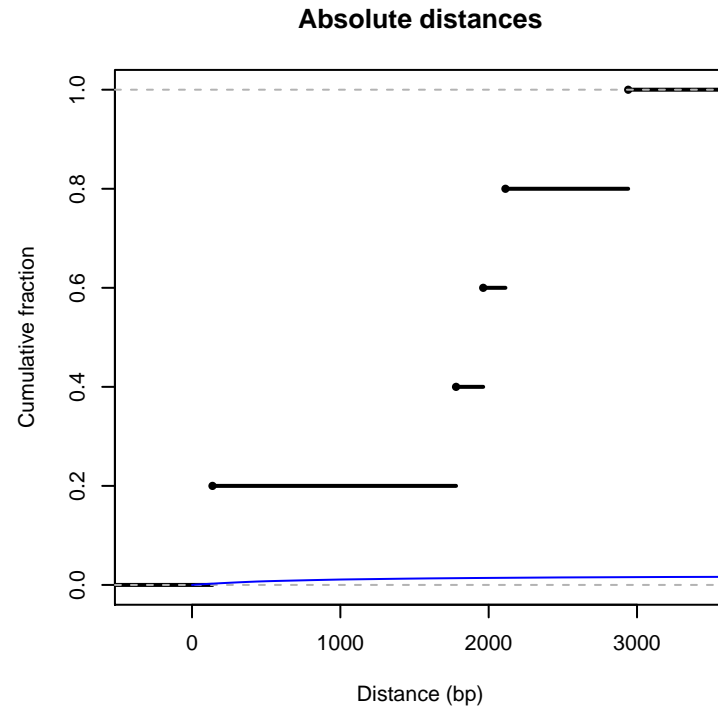
pcontig_179

Query population : 13
Reference population : 19
Relative Ks p-value : 0.233422
Relative ecdf deviation area : 0.0576532
Relative ecdf area correlation : 0.229019
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 : 3.14836e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 49.9595



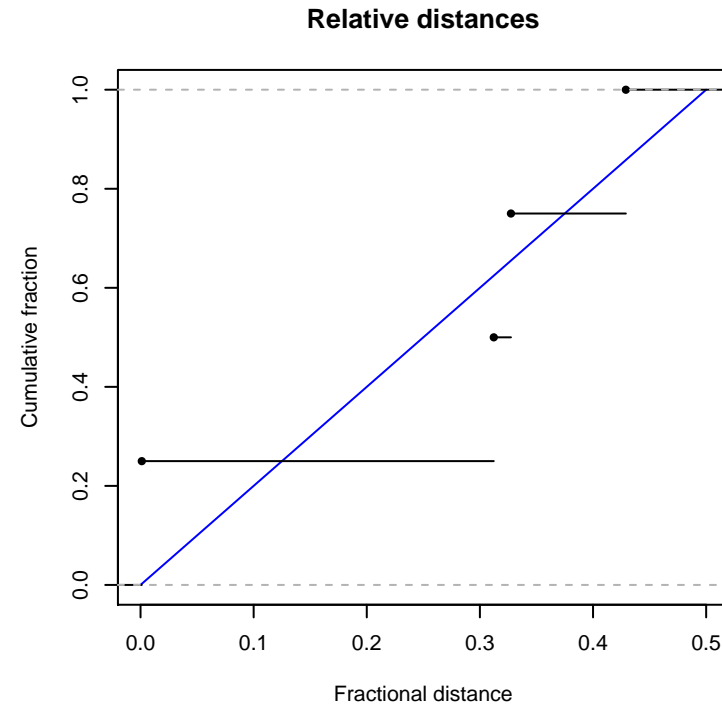
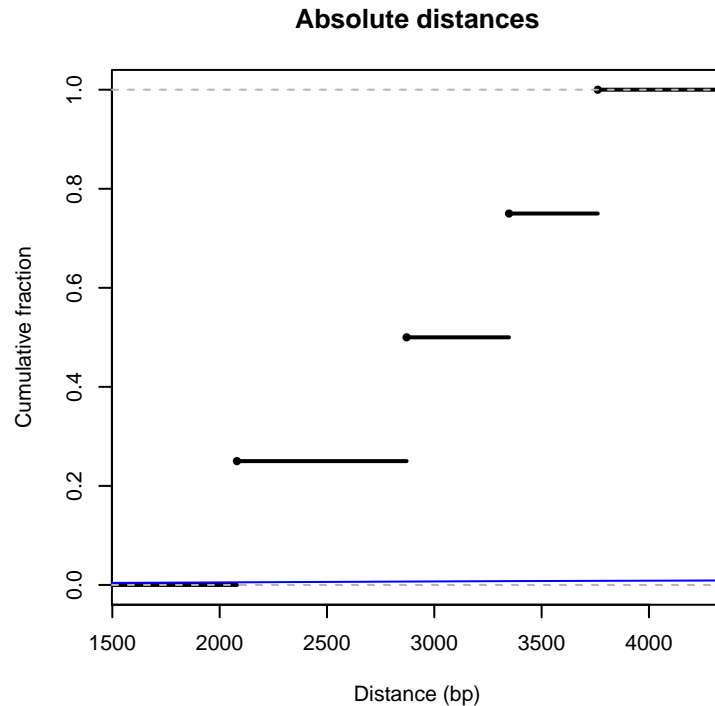
pcontig_181

Query population : 5
Reference population : 33
Relative Ks p-value : 0.443765
Relative ecdf deviation area : 0.0560574
Relative ecdf area correlation : 0.08018
Relative ecdf deviation area p-value : 0.72
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.56915e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 66.2418



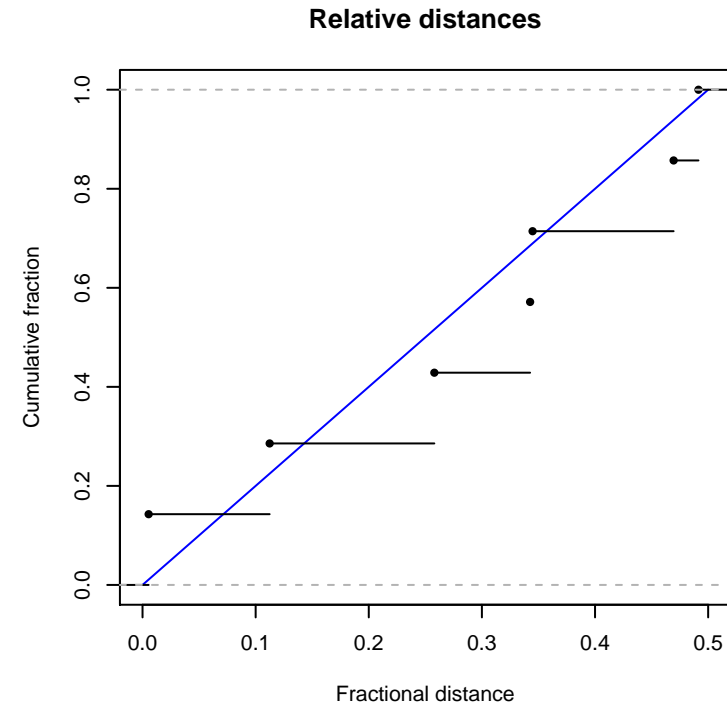
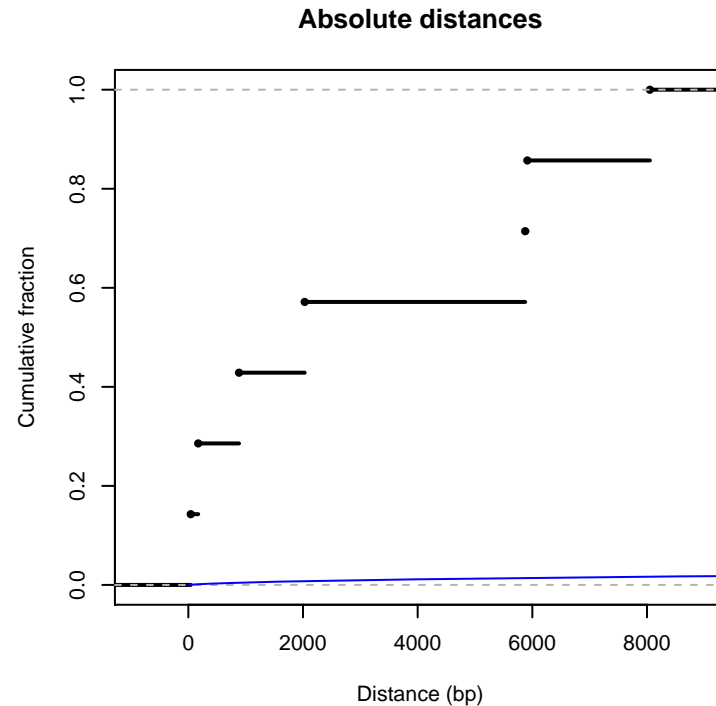
pcontig_185

Query population : 4
Reference population : 7
Relative Ks p-value : 0.521083
Relative ecdf deviation area : 0.0626898
Relative ecdf area correlation : -0.0698535
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 : 0.007047
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



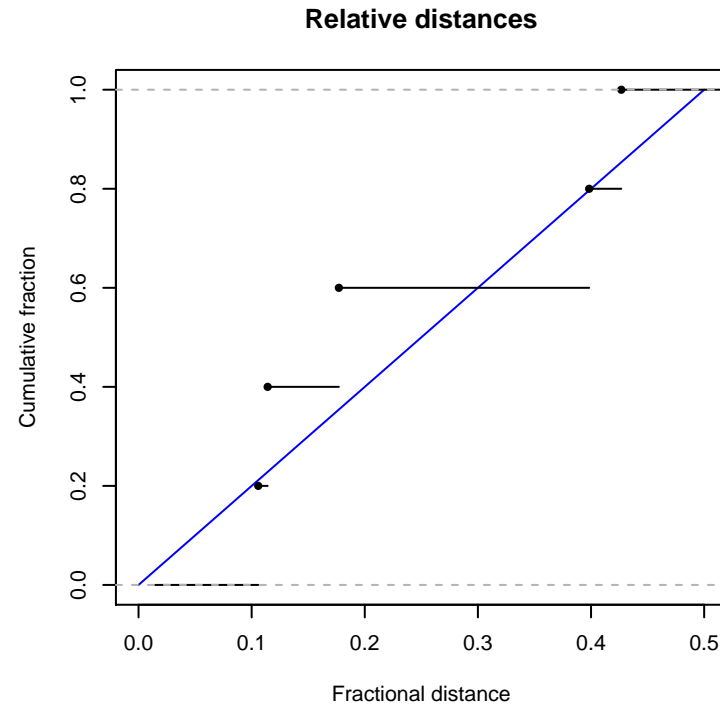
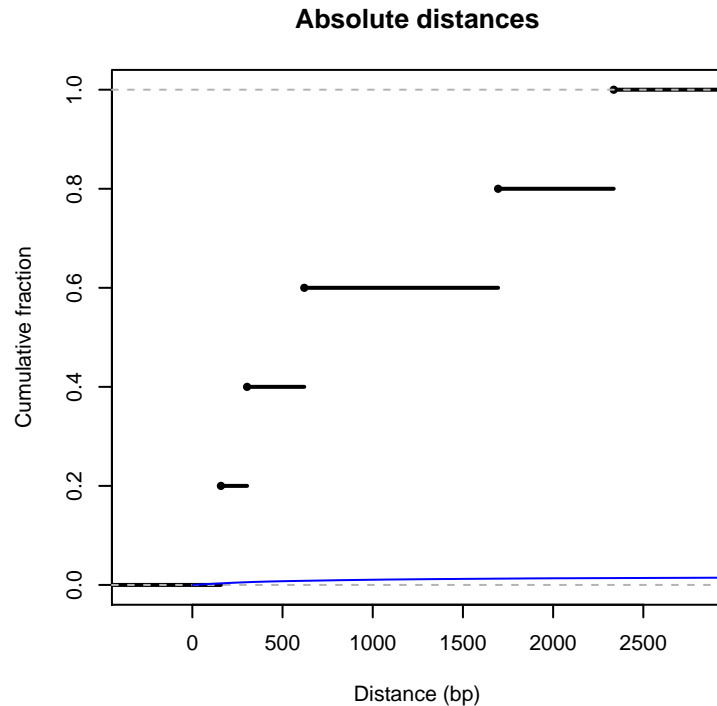
pcontig_186

Query population : 7
Reference population : 17
Relative Ks p-value : 0.657344
Relative ecdf deviation area : 0.0502277
Relative ecdf area correlation : -0.156609
Relative ecdf deviation area p-value : 0.59
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.89342e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 75.2584



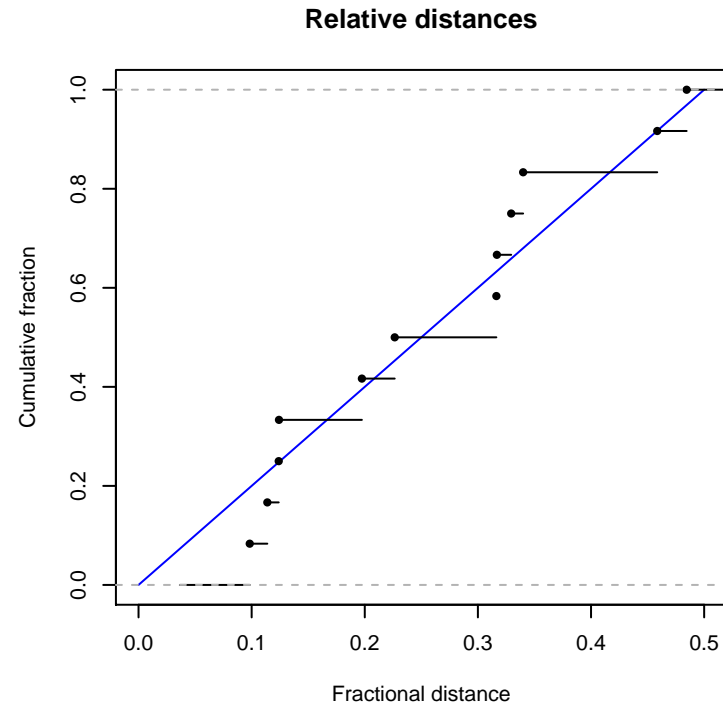
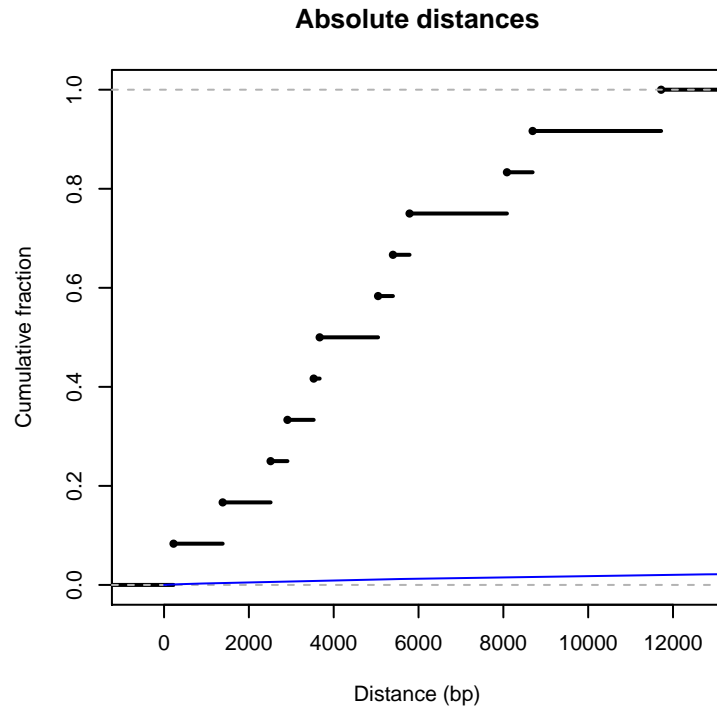
pcontig_187

Query population : 5
Reference population : 42
Relative Ks p-value : 0.857333
Relative ecdf deviation area : 0.0492851
Relative ecdf area correlation : 0.0222793
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 : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 88.8166



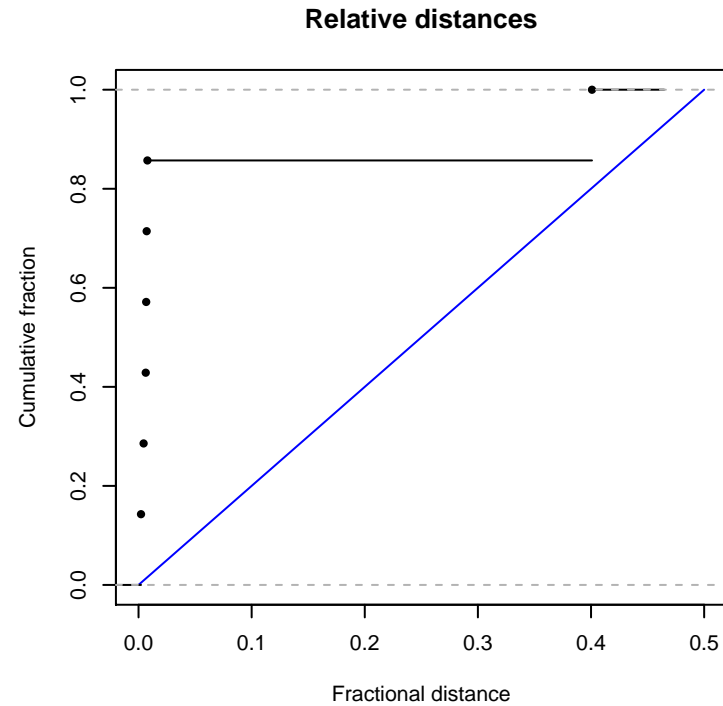
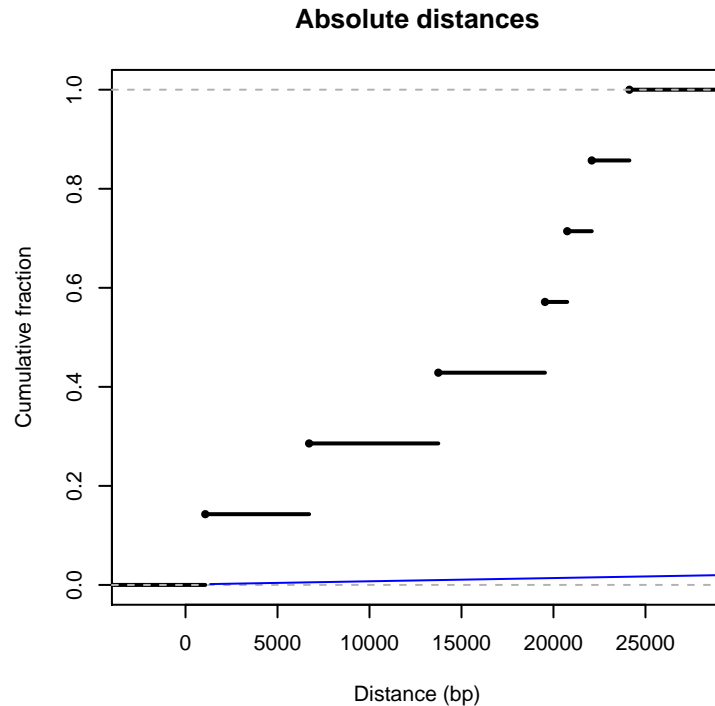
pcontig_188

Query population : 12
Reference population : 9
Relative Ks p-value : 0.673397
Relative ecdf deviation area : 0.0302619
Relative ecdf area correlation : -0.0432678
Relative ecdf deviation area p-value : 0.79
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00020137
Projection test lower tail : FALSE
Projection test observed to expected ratio : 47.4297



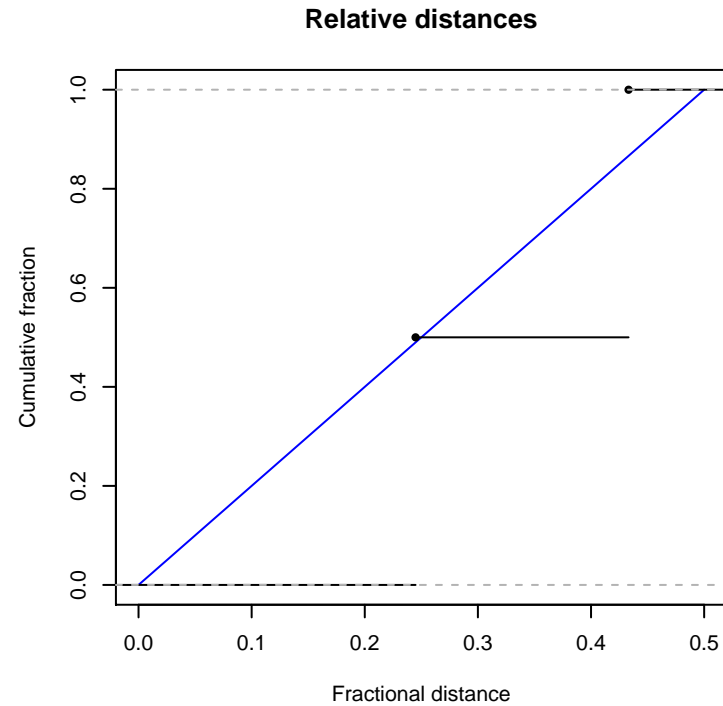
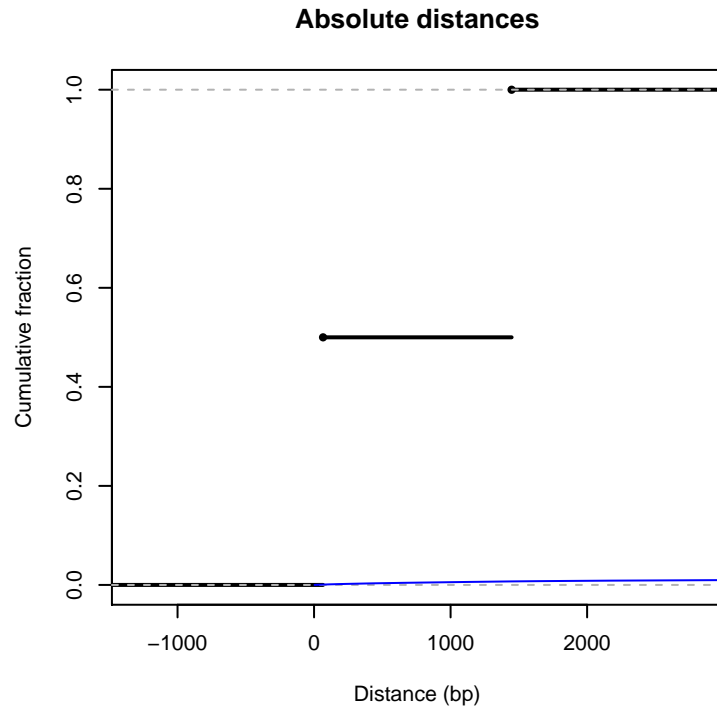
pcontig_189

Query population : 7
Reference population : 2
Relative Ks p-value : 5.04285e-06
Relative ecdf deviation area : 0.187926
Relative ecdf area correlation : 0.751032
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 : 0.00195288
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



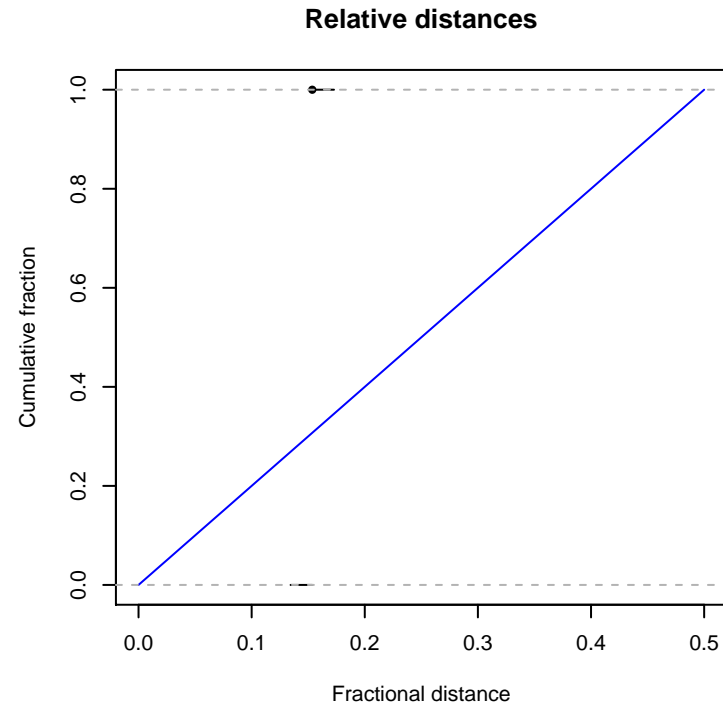
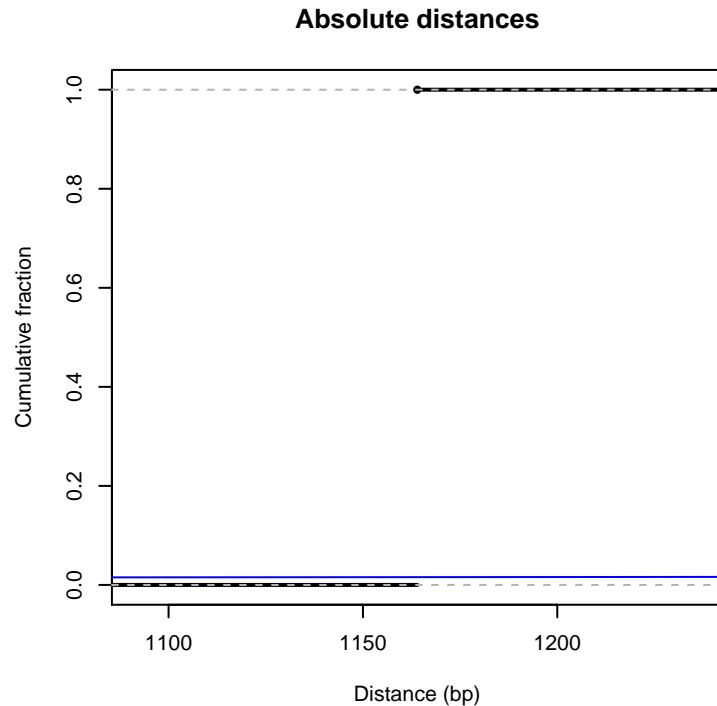
pcontig_191

Query population : 2
Reference population : 17
Relative Ks p-value : 0.539983
Relative ecdf deviation area : 0.0975993
Relative ecdf area correlation : -0.356133
Relative ecdf deviation area p-value : 0.51
Scaled Absolute min. distance p-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 : 80.2862



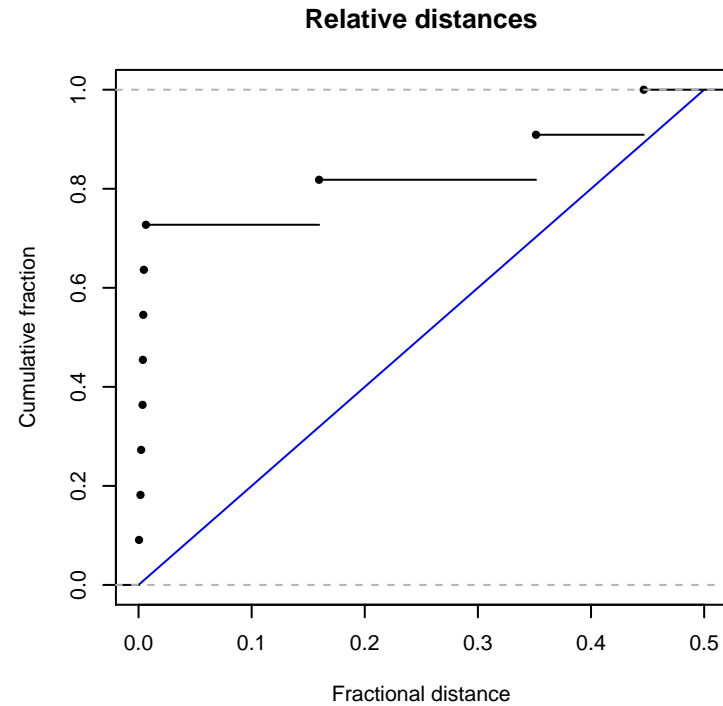
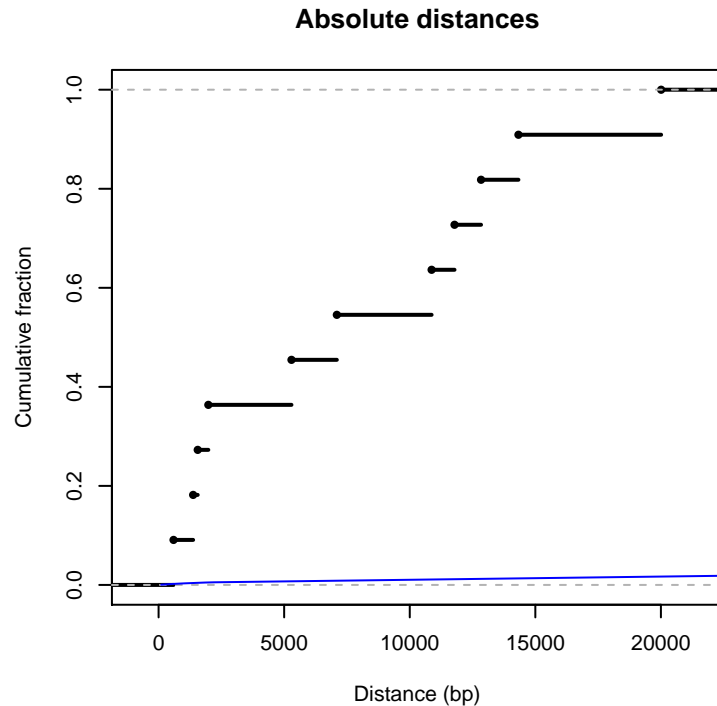
pcontig_193

Query population : 1
Reference population : 35
Relative Ks p-value : 0.614329
Relative ecdf deviation area : 0.143612
Relative ecdf area correlation : 0.385671
Relative ecdf deviation area p-value : 0.68
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 55.2964



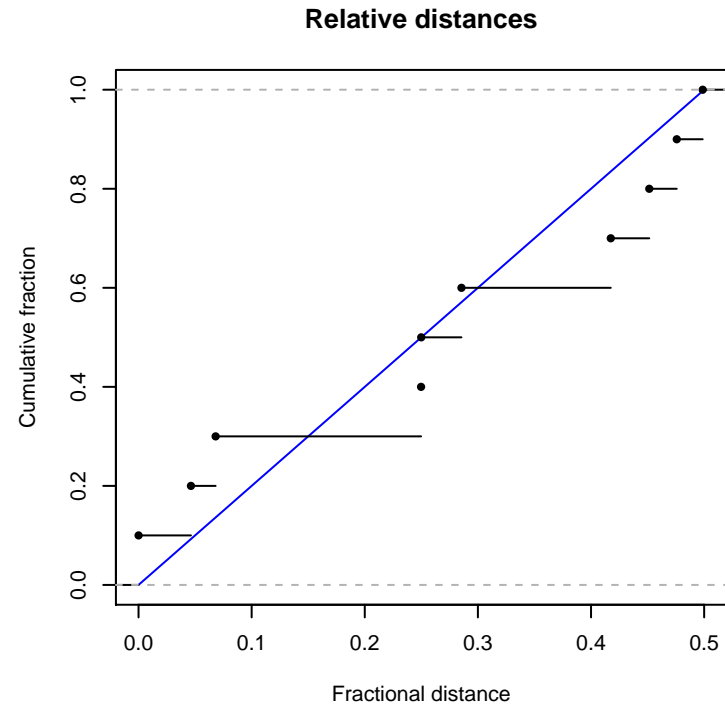
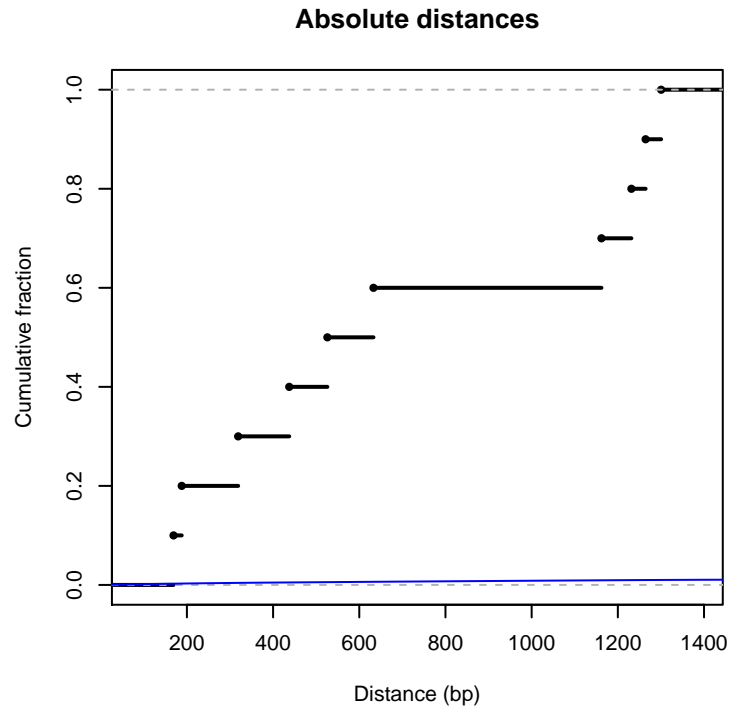
pcontig_195

Query population : 11
Reference population : 7
Relative Ks p-value : 3.4206×10^{-6}
Relative ecdf deviation area : 0.160897
Relative ecdf area correlation : 0.641866
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 : 2.75133×10^{-8}
Projection test lower tail : FALSE
Projection test observed to expected ratio : 89.872



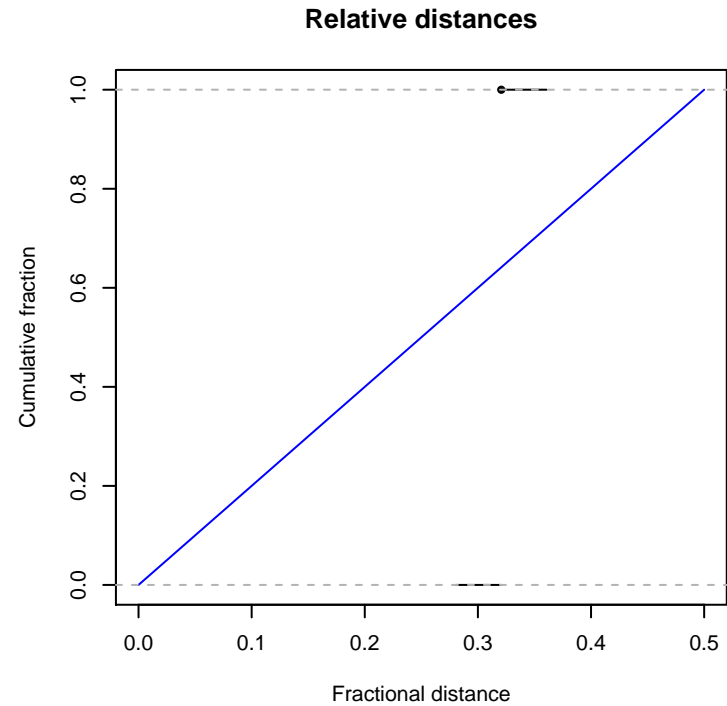
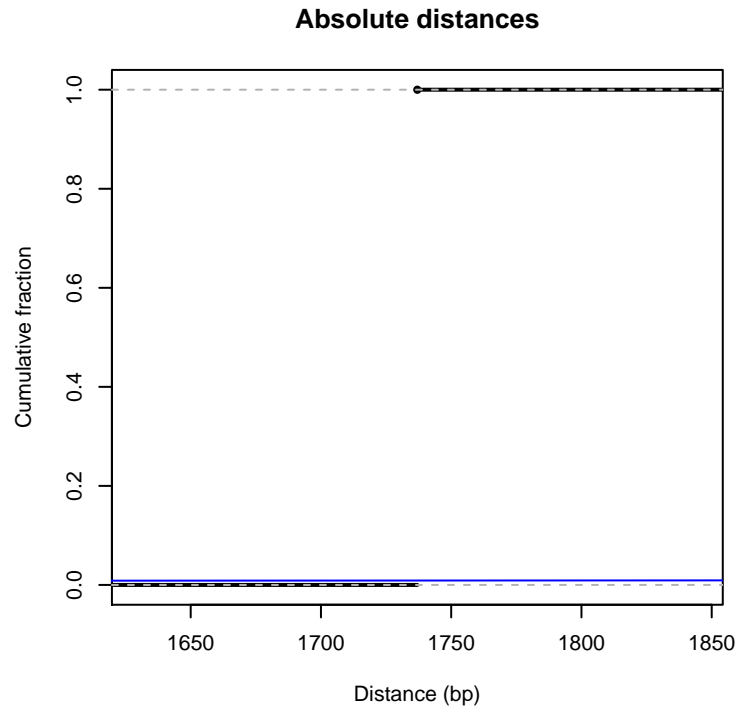
pcontig_200

Query population : 10
Reference population : 35
Relative Ks p-value : 0.562309
Relative ecdf deviation area : 0.046848
Relative ecdf area correlation : -0.0972623
Relative ecdf deviation area p-value : 0.59
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.55431e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 79.7735



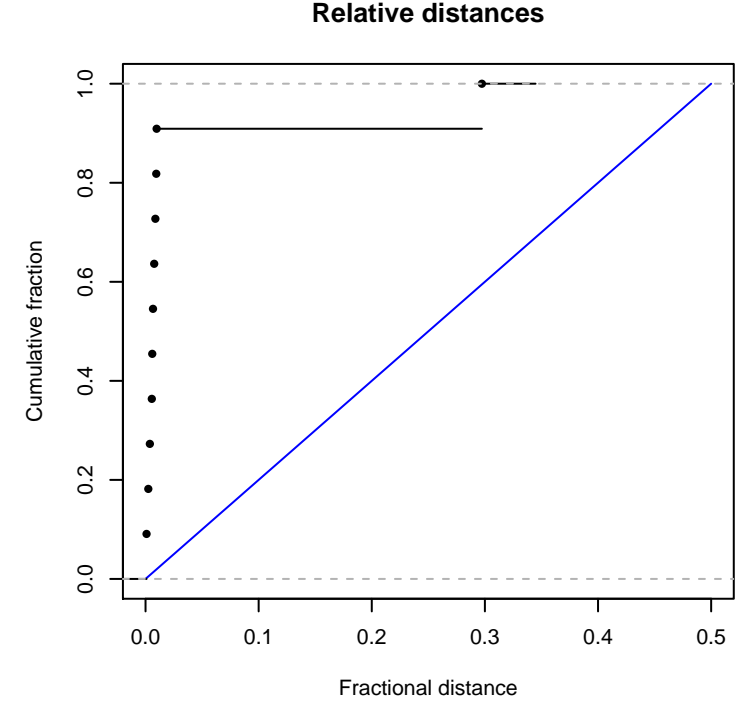
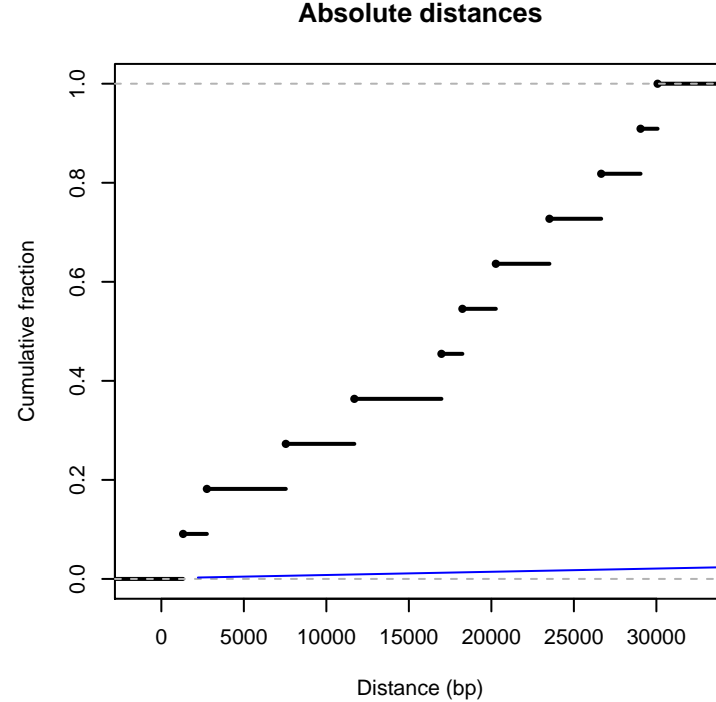
pcontig_202

Query population : 1
Reference population : 17
Relative Ks p-value : 0.717371
Relative ecdf deviation area : 0.135038
Relative ecdf area correlation : -0.282629
Relative ecdf deviation area p-value : 0.73
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 88.6705



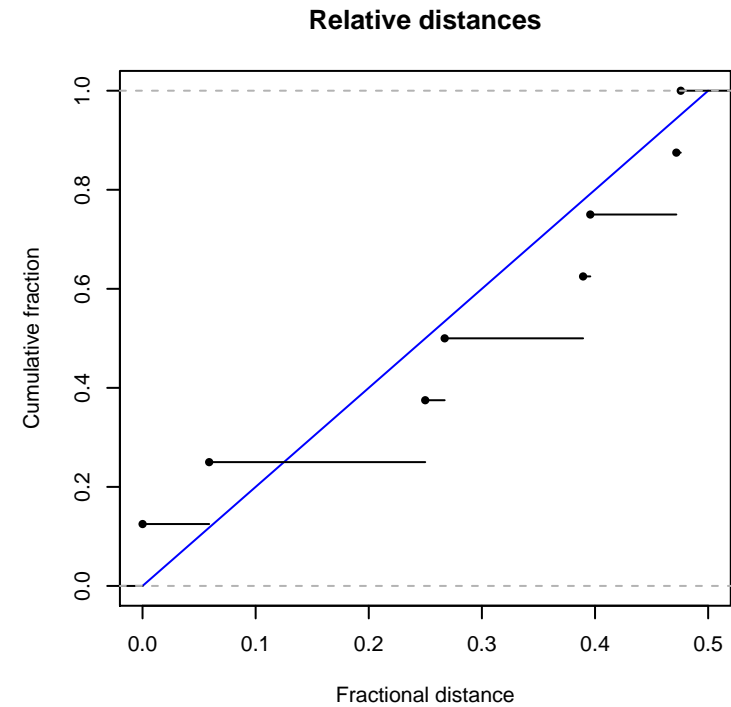
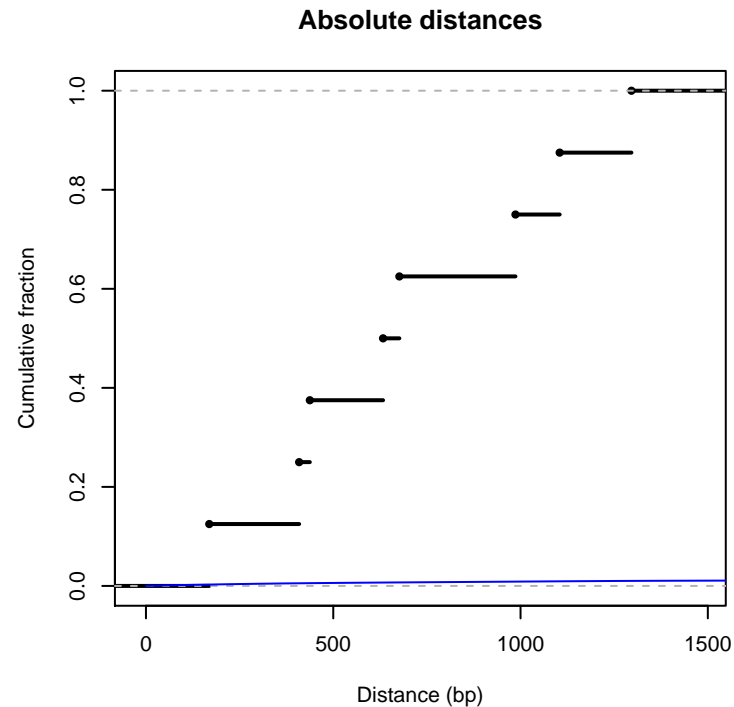
pcontig_203

Query population : 11
Reference population : 2
Relative Ks p-value : 6.00459e-11
Relative ecdf deviation area : 0.217427
Relative ecdf area correlation : 0.869742
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 : 0.00932476
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



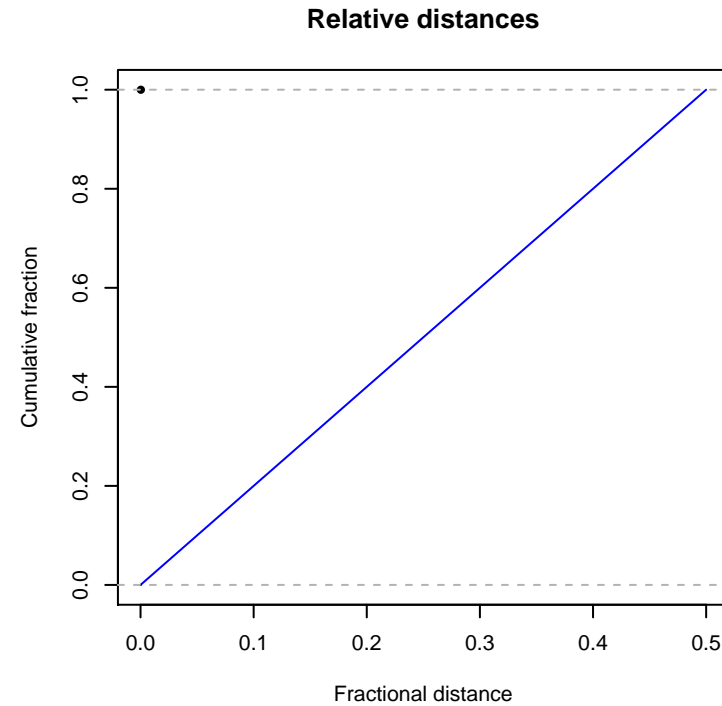
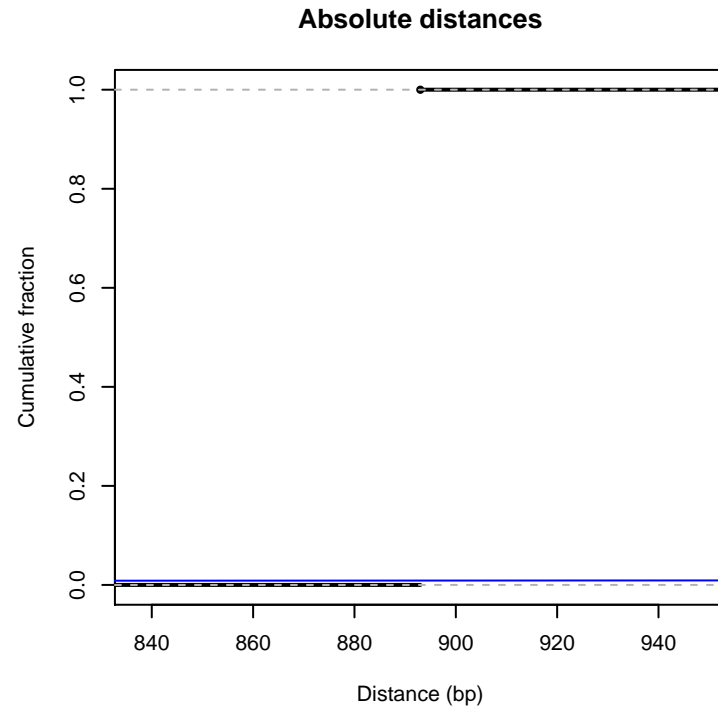
pcontig_204

Query population : 8
Reference population : 35
Relative Ks p-value : 0.479599
Relative ecdf deviation area : 0.0560624
Relative ecdf area correlation : -0.154445
Relative ecdf deviation area p-value : 0.4
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.25626e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 64.6105



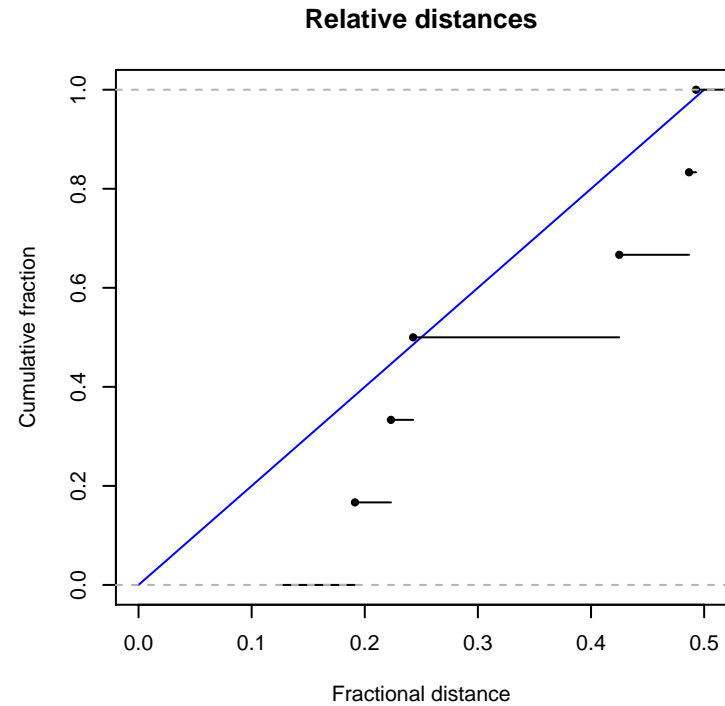
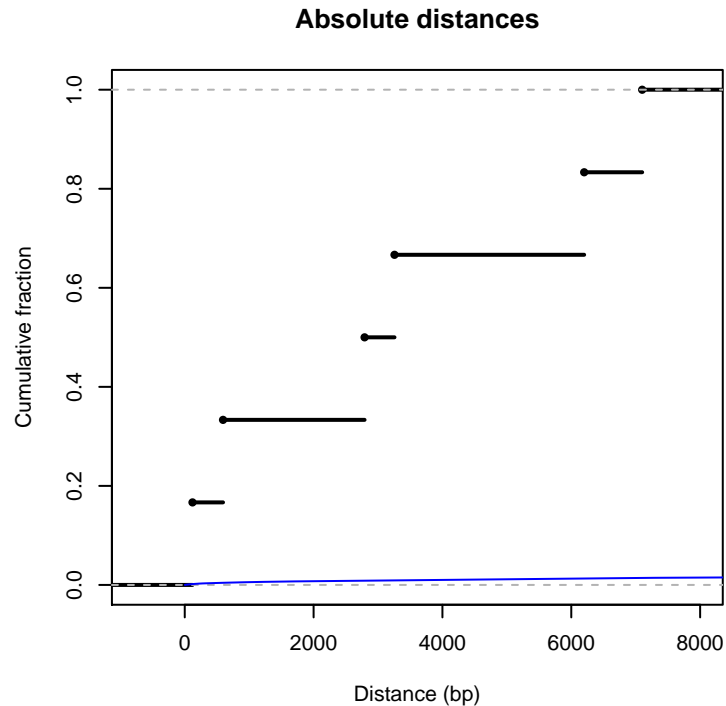
pcontig_205

Query population : 1
Reference population : 29
Relative Ks p-value : 0.0011735
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.998827
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 : 0.0102451
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



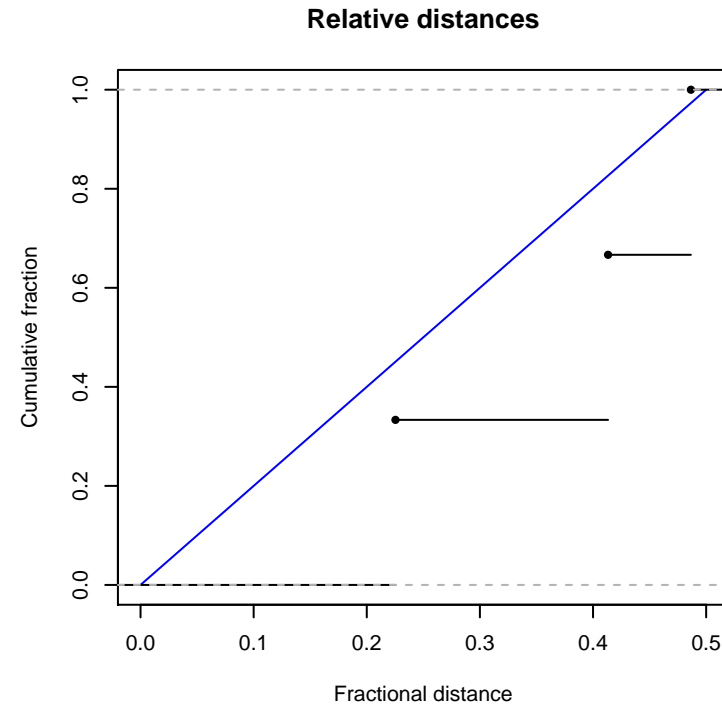
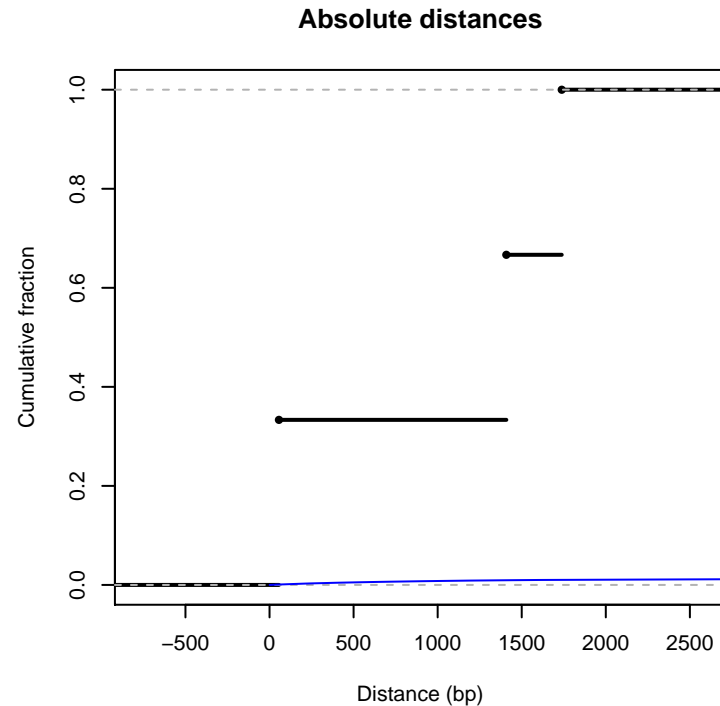
pcontig_207

Query population : 6
Reference population : 32
Relative Ks p-value : 0.268702
Relative ecdf deviation area : 0.0939928
Relative ecdf area correlation : -0.374404
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 : 1.39454e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 80.7355



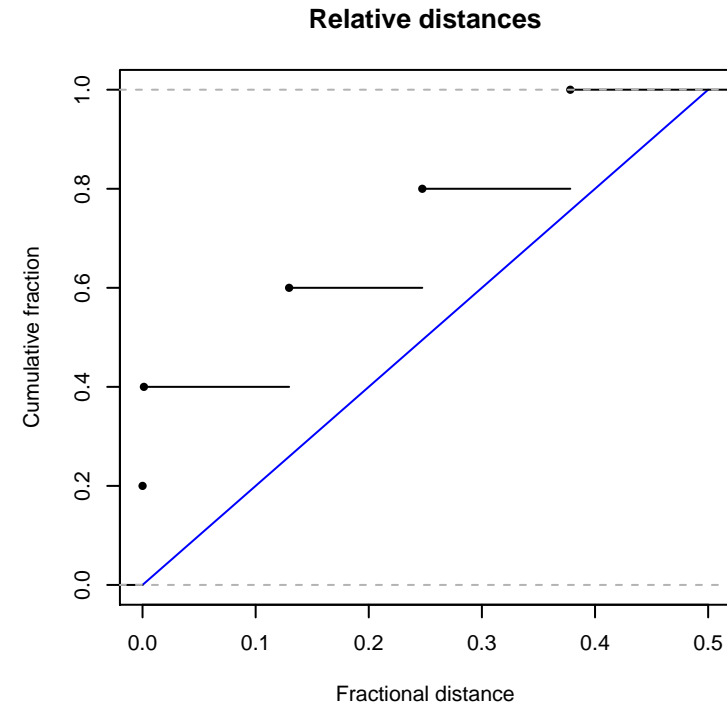
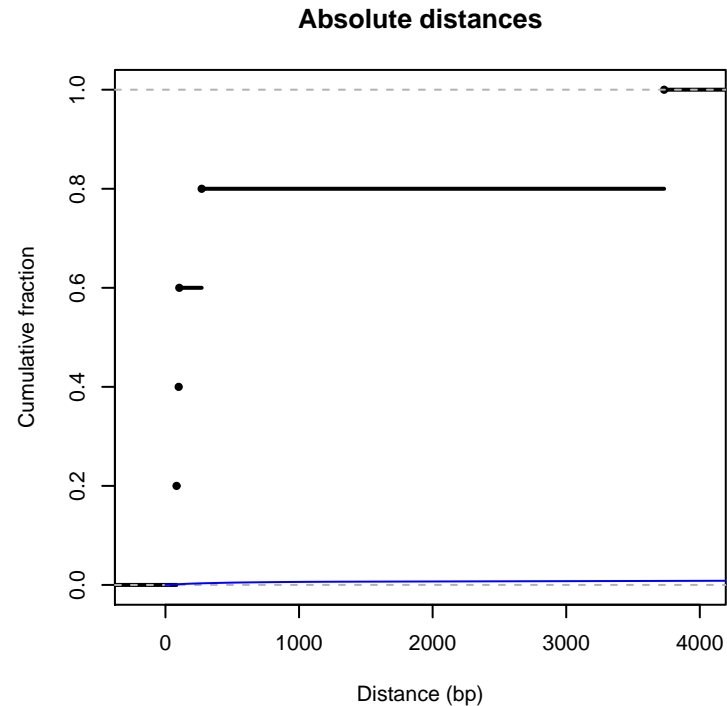
pcontig_214

Query population : 3
Reference population : 26
Relative Ks p-value : 0.349298
Relative ecdf deviation area : 0.12542
Relative ecdf area correlation : -0.500234
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 : 5.23329e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 82.7276



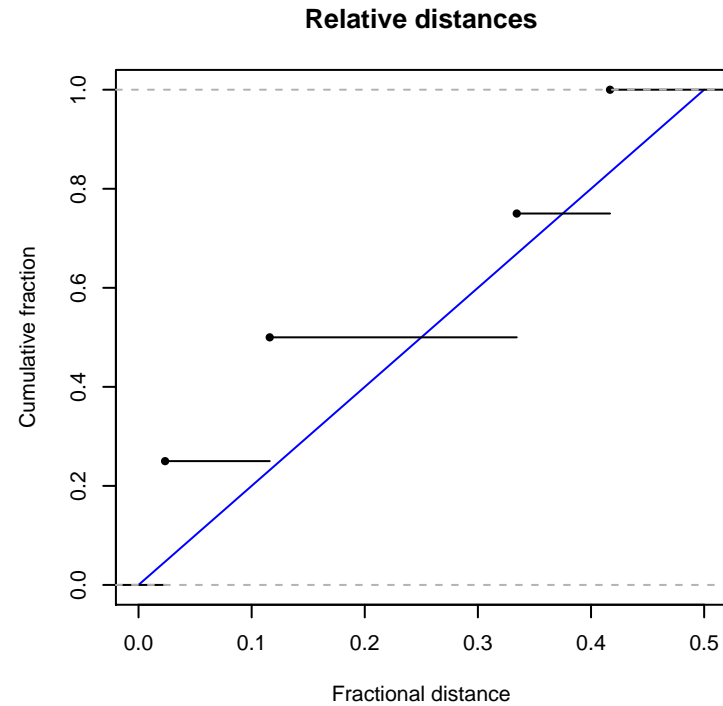
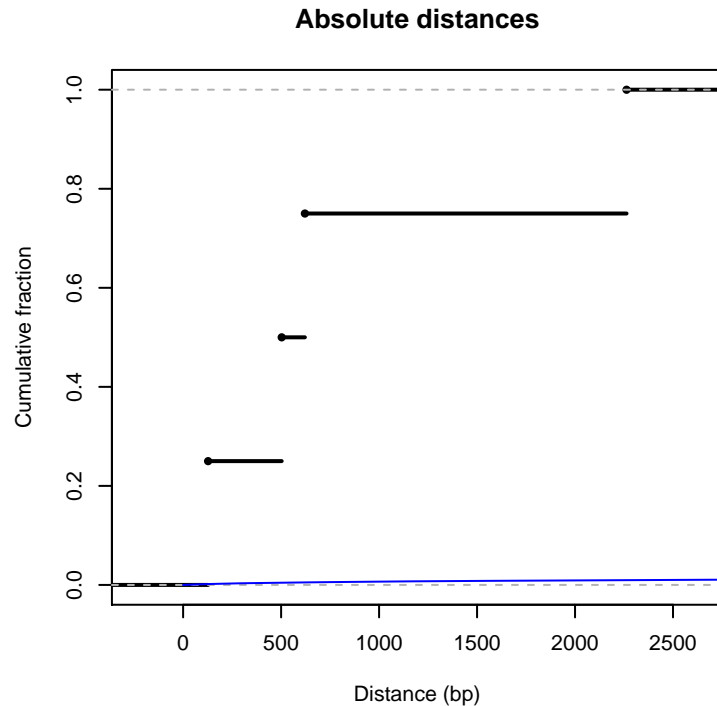
pcontig_218

Query population : 5
Reference population : 33
Relative Ks p-value : 0.315296
Relative ecdf deviation area : 0.0986356
Relative ecdf area correlation : 0.394984
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 : 5.28055e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 144.064



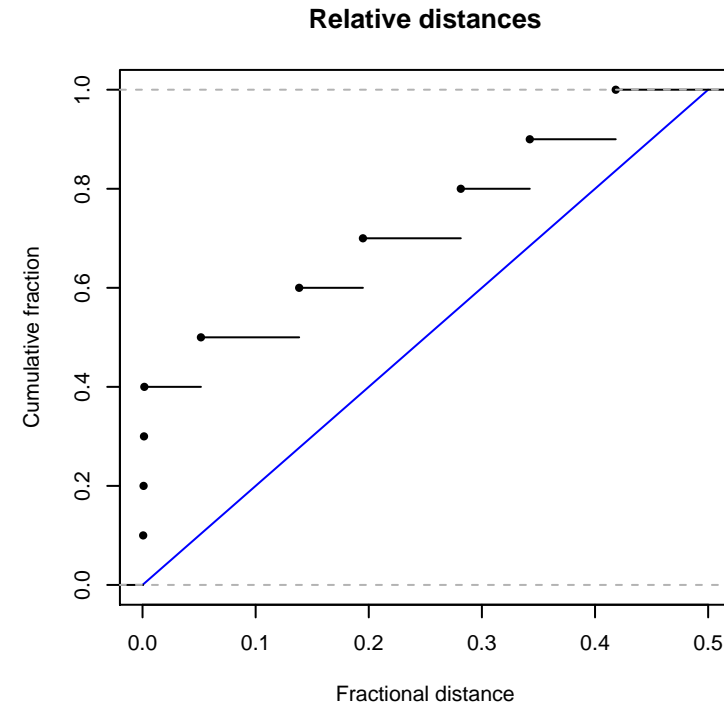
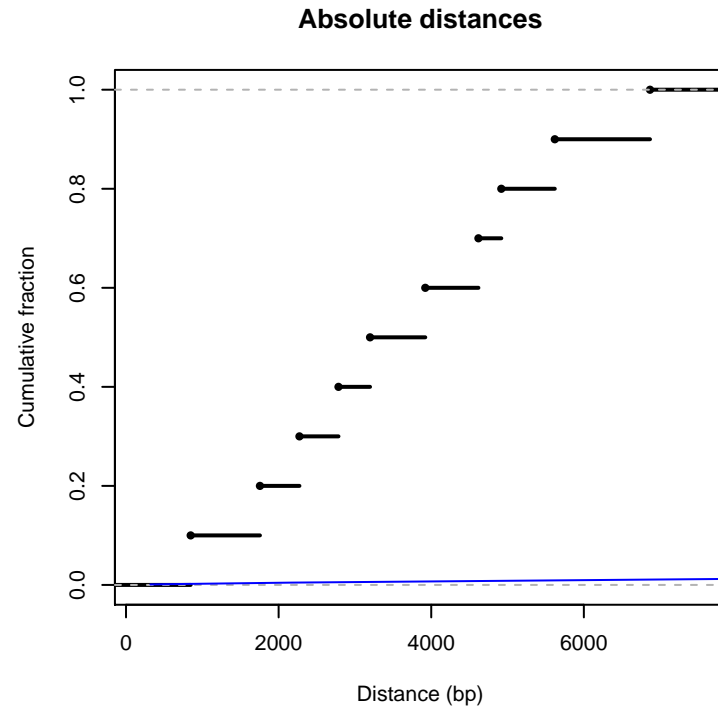
pcontig_221

Query population : 4
Reference population : 25
Relative Ks p-value : 0.862353
Relative ecdf deviation area : 0.0460689
Relative ecdf area correlation : 0.109417
Relative ecdf deviation area p-value : 0.92
Scaled Absolute min. distance p-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 : 108.886



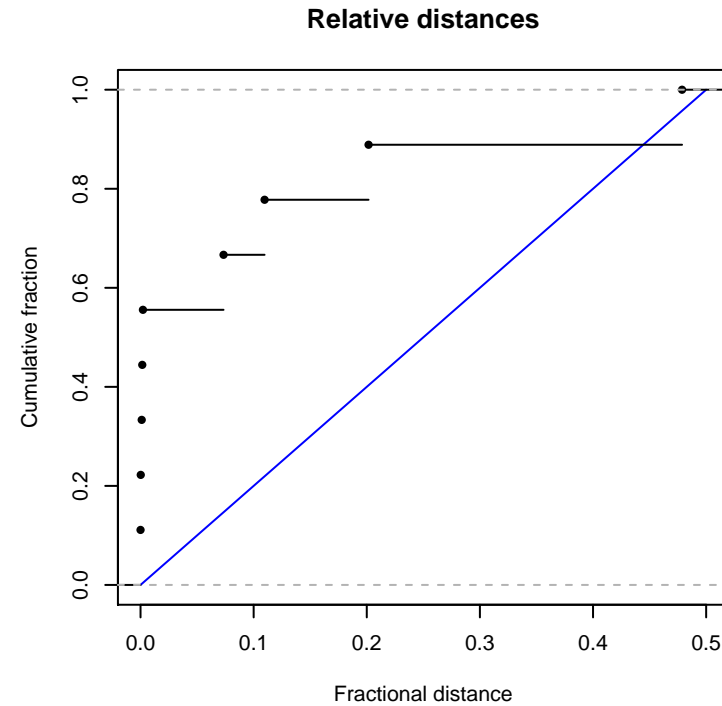
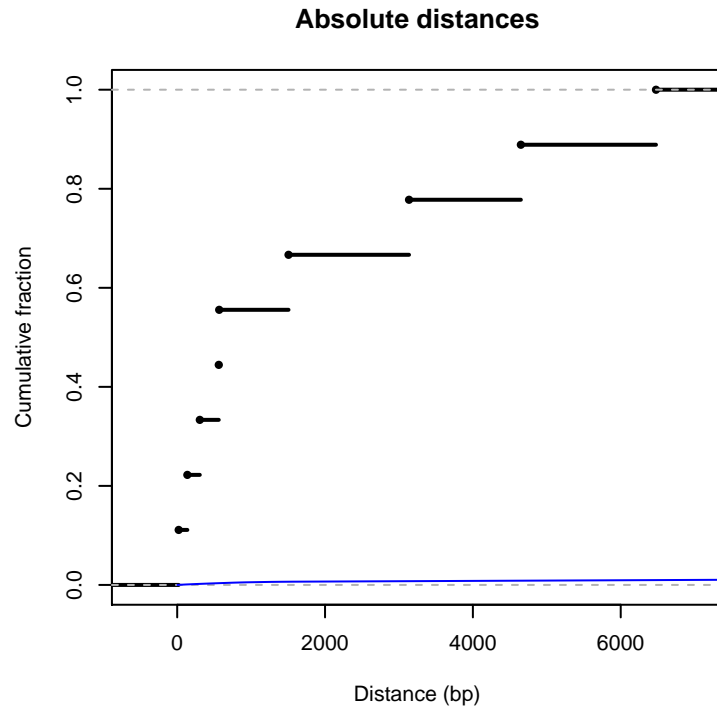
pcontig_223

Query population : 10
Reference population : 5
Relative Ks p-value : 0.0624244
Relative ecdf deviation area : 0.108561
Relative ecdf area correlation : 0.427485
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 : 0.000324462
Projection test lower tail : FALSE
Projection test observed to expected ratio : 36.9736



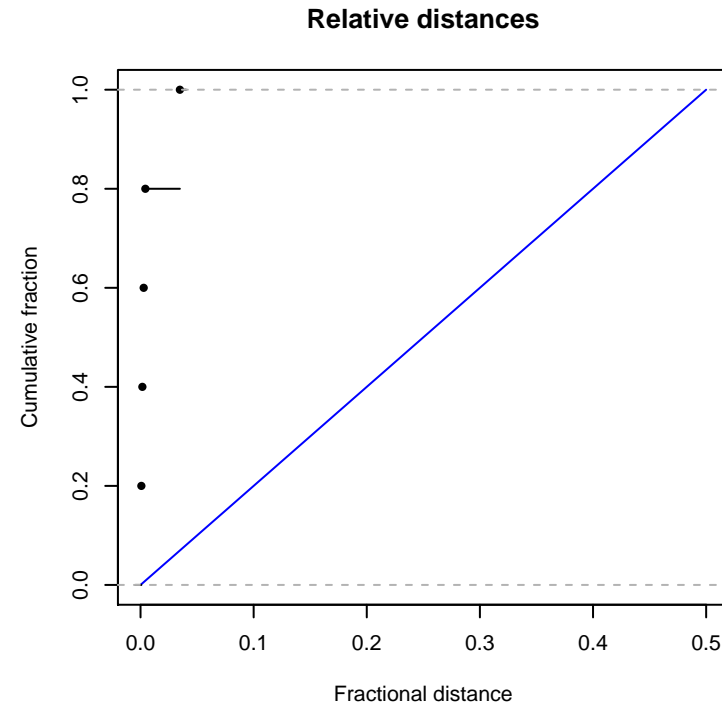
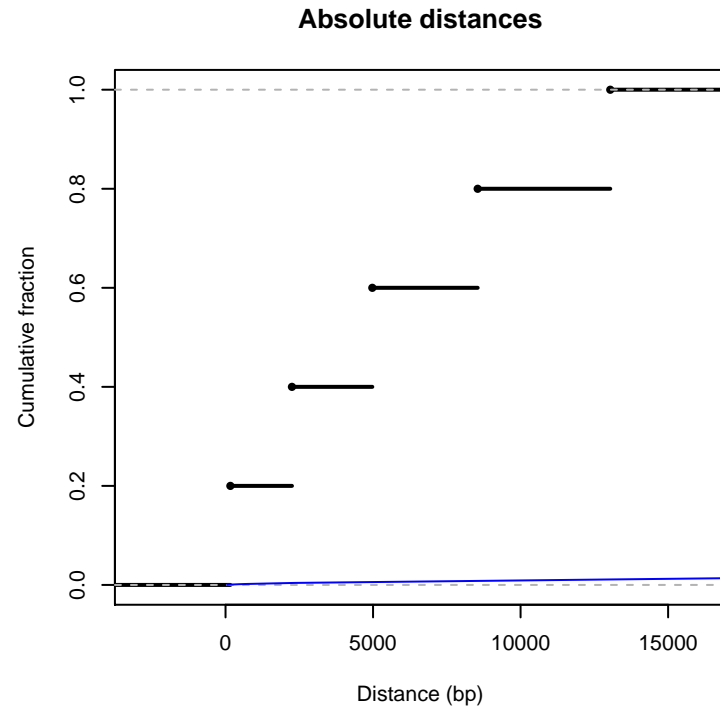
pcontig_225

Query population : 9
Reference population : 13
Relative Ks p-value : 0.00358999
Relative ecdf deviation area : 0.155719
Relative ecdf area correlation : 0.614147
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 : 1.62093e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 107.032



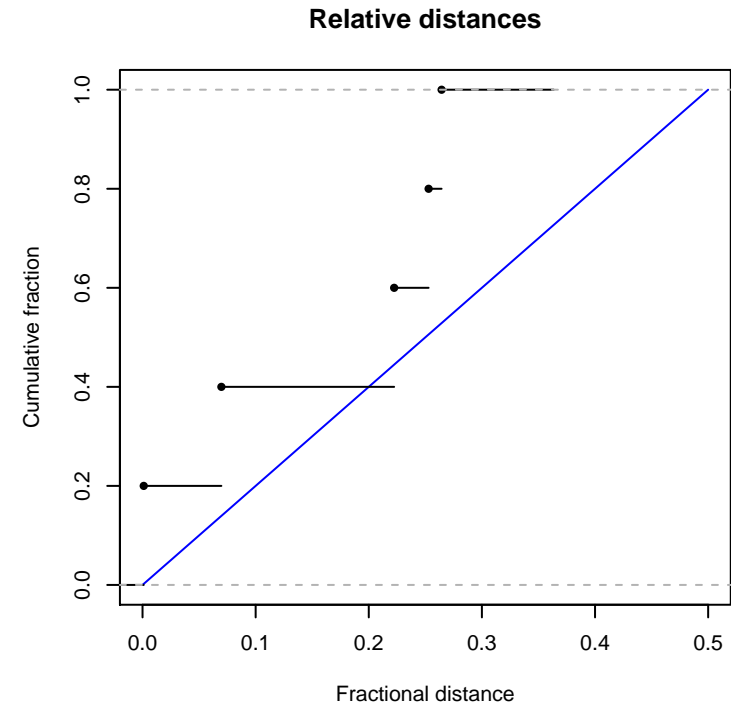
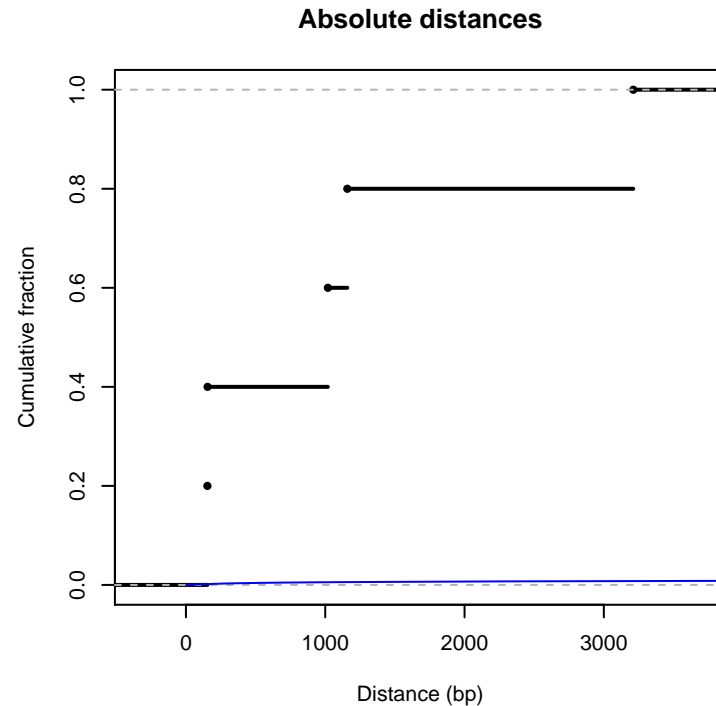
pcontig_233

Query population : 5
Reference population : 7
Relative Ks p-value : 3.26259e-06
Relative ecdf deviation area : 0.242351
Relative ecdf area correlation : 0.964646
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 : 4.61367e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 111.326



pcontig_235

Query population : 5
Reference population : 24
Relative Ks p-value : 0.155236
Relative ecdf deviation area : 0.0885881
Relative ecdf area correlation : 0.351618
Relative ecdf deviation area p-value : 0.32
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.06101e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 84.2923



All Chromosomes

Query population : 14349
Reference population : 49155
Relative Ks p-value : 0
Relative ecdf deviation area : 0.0146056
Relative ecdf area correlation : -0.0549985
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.57346

