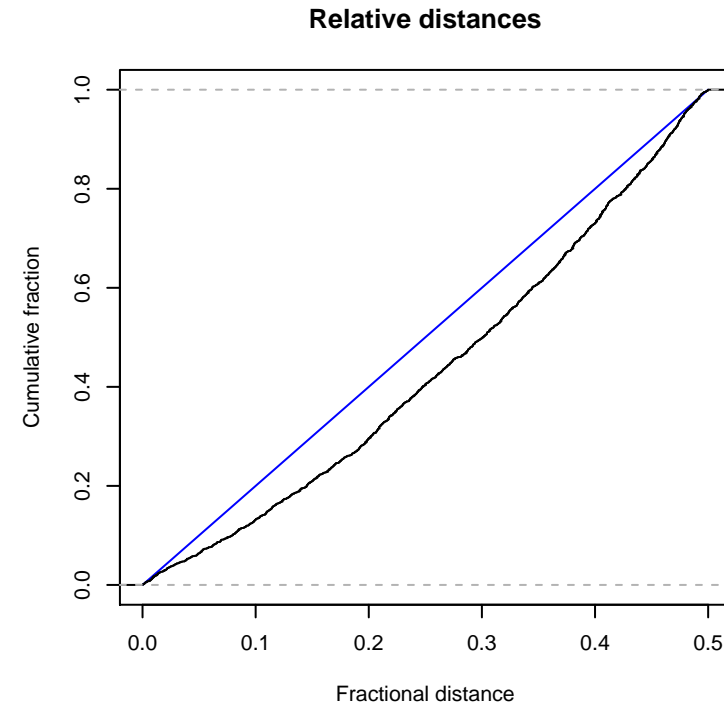
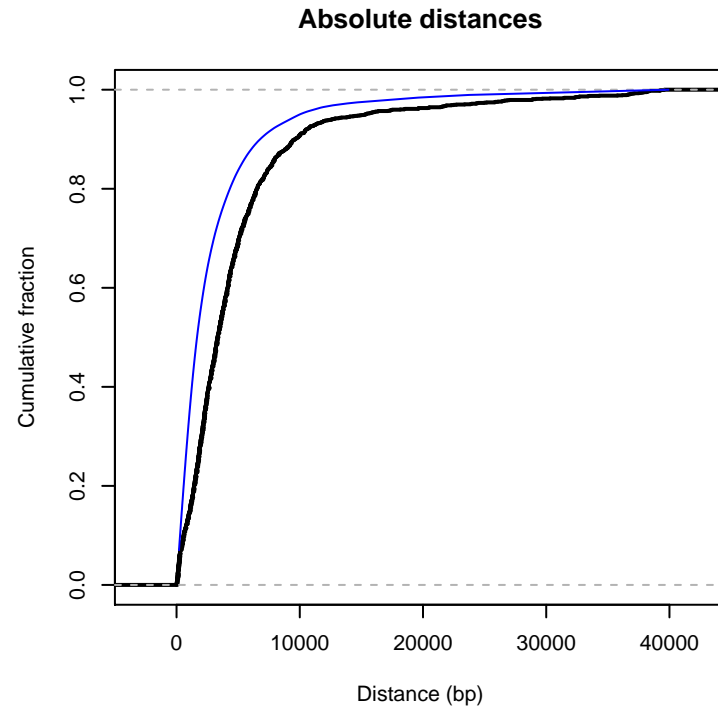


pcontig_000

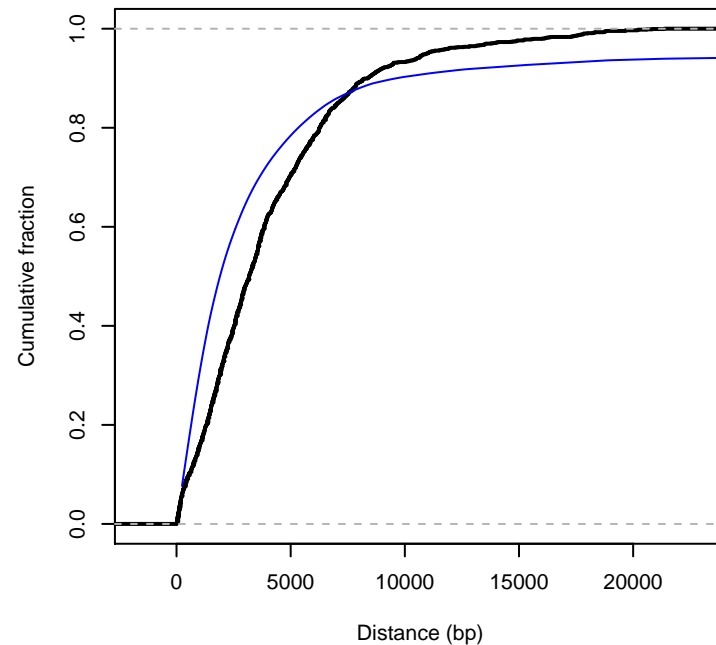
Query population : 1836
Reference population : 540
Relative Ks p-value : 0
Relative ecdf deviation area : 0.0343472
Relative ecdf area correlation : -0.138006
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : FALSE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 1.28574e-84
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.332729



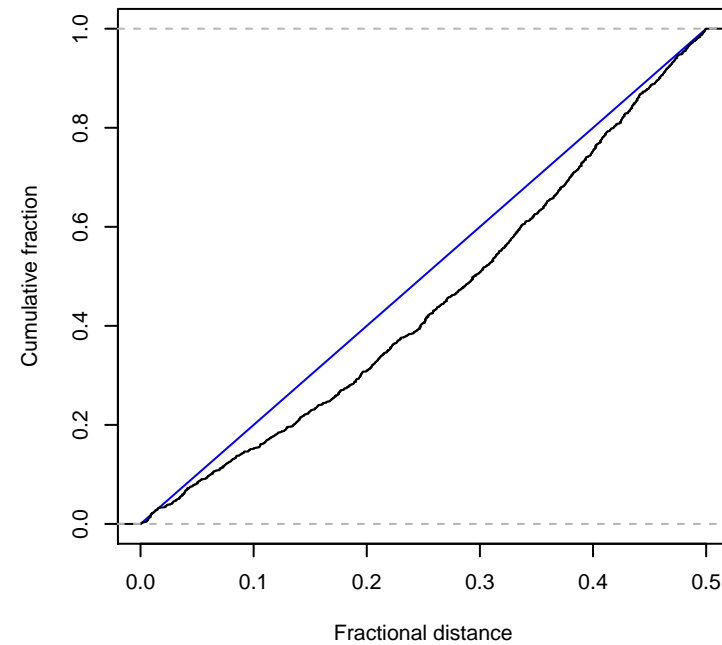
pcontig_001

Query population : 1560
Reference population : 490
Relative Ks p-value : $9.11493\text{e-}14$
Relative ecdf deviation area : 0.0272959
Relative ecdf area correlation : -0.110056
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : $2.97265\text{e-}52$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.390828

Absolute distances



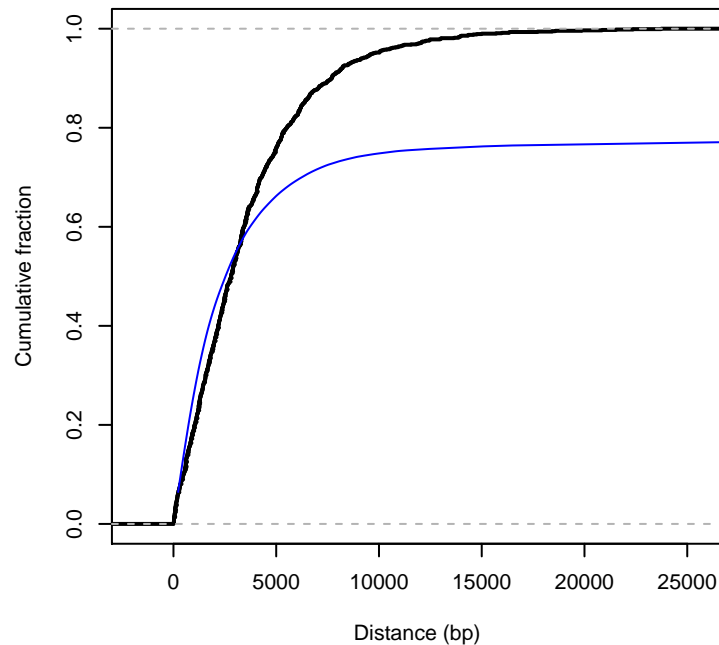
Relative distances



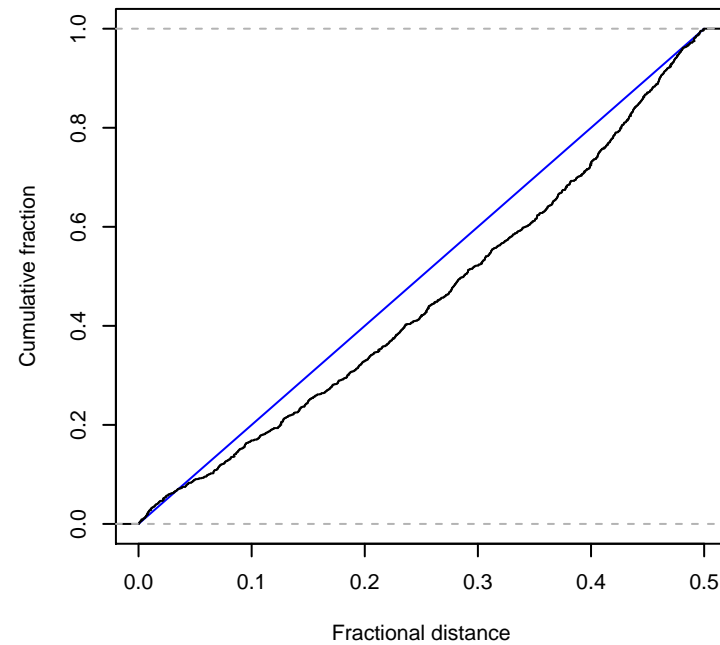
pcontig_002

Query population : 1204
Reference population : 436
Relative Ks p-value : 1.31096e-08
Relative ecdf deviation area : 0.0258634
Relative ecdf area correlation : -0.102181
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 1.47521e-31
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.459514

Absolute distances

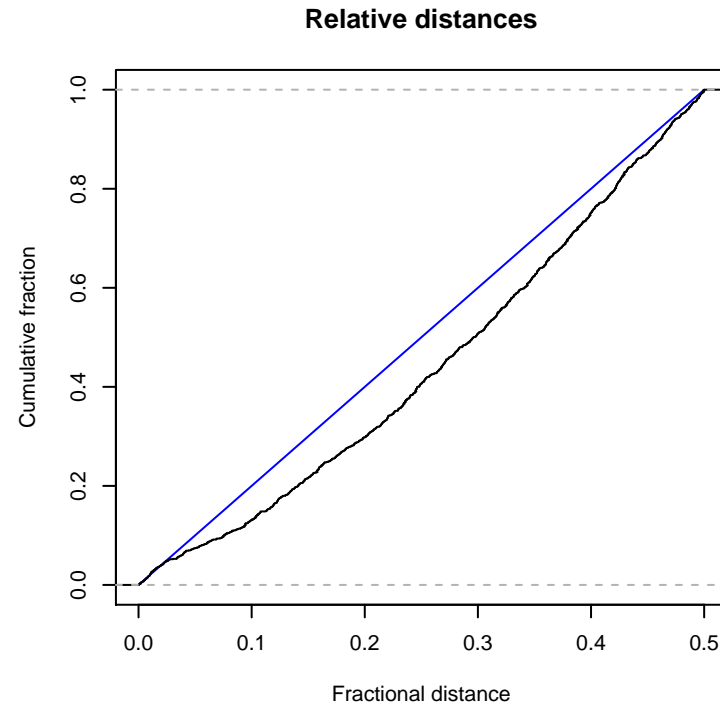
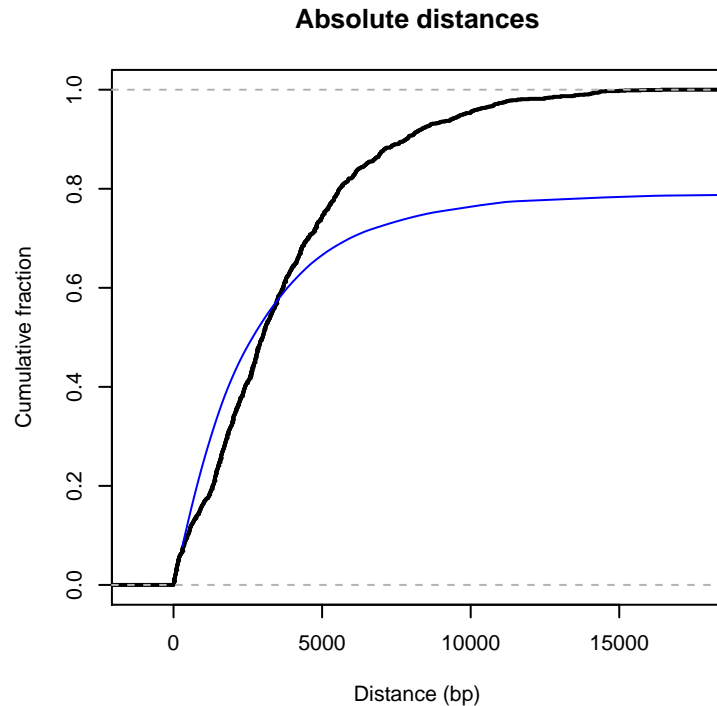


Relative distances



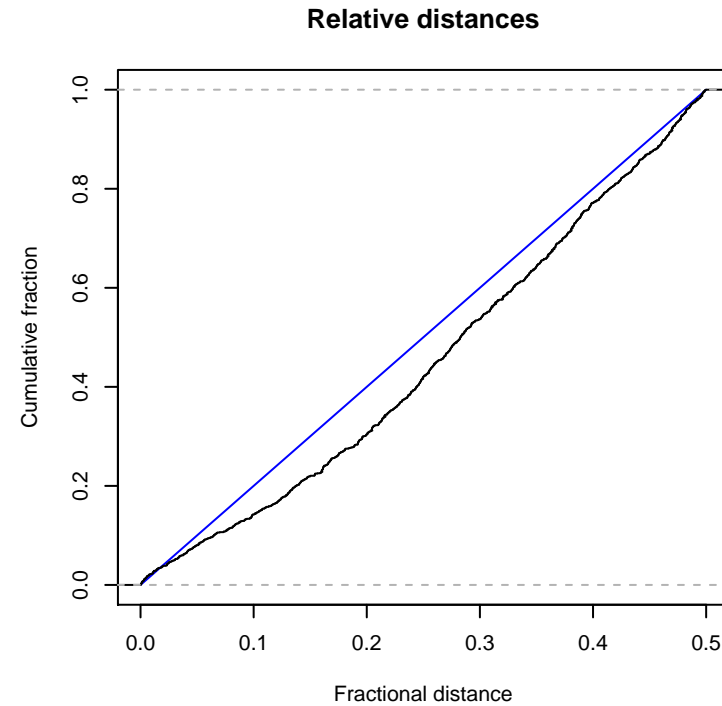
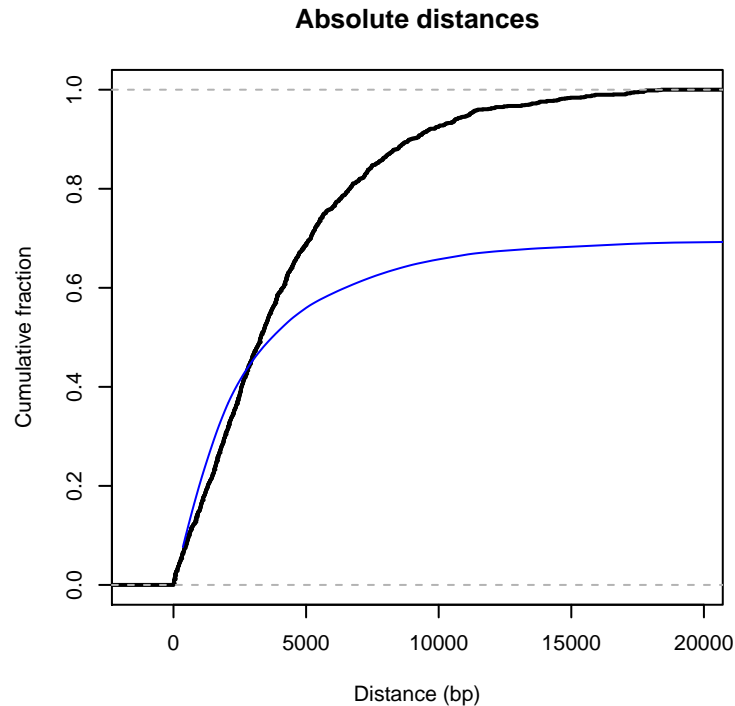
pcontig_003

Query population : 1462
Reference population : 403
Relative Ks p-value : $7.10543\text{e-}15$
Relative ecdf deviation area : 0.0308638
Relative ecdf area correlation : -0.123335
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : $2.75921\text{e-}27$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.476108



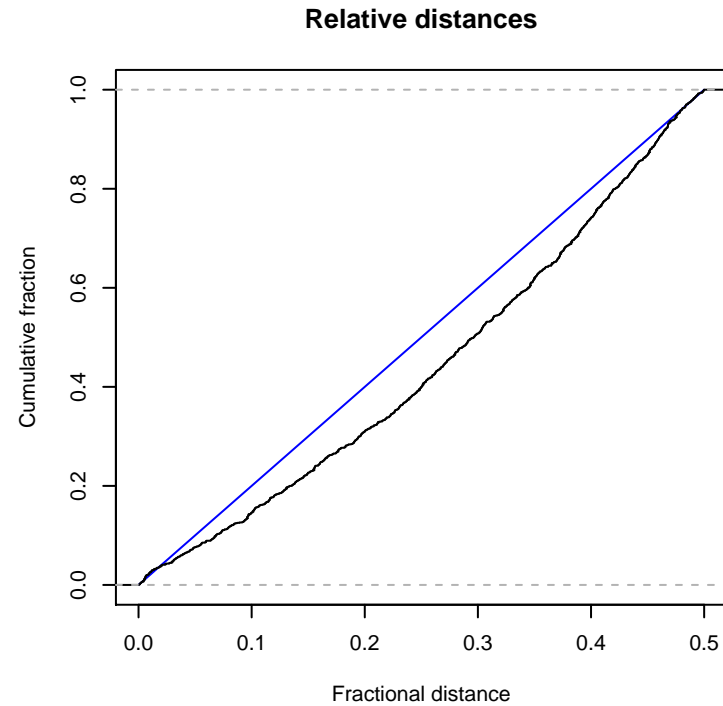
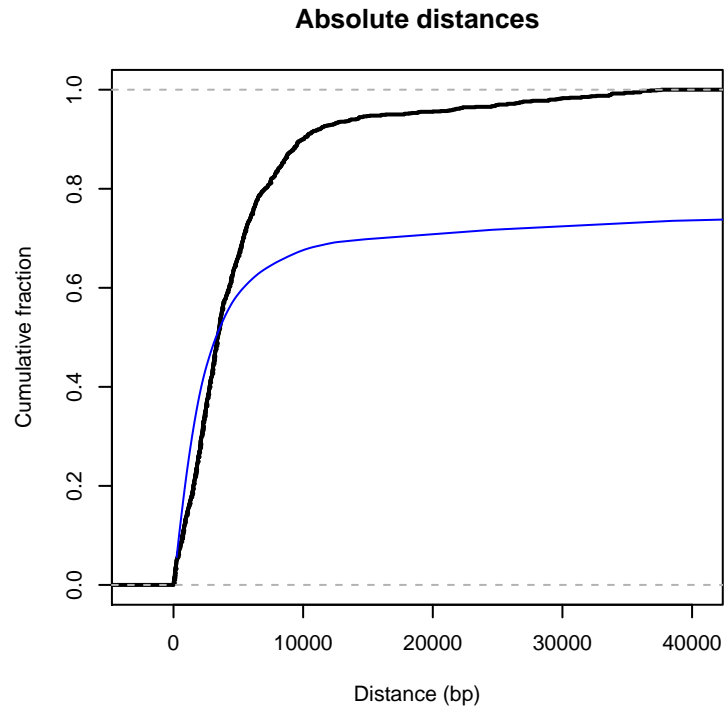
pcontig_004

Query population : 1370
Reference population : 332
Relative Ks p-value : 1.80056e-12
Relative ecdf deviation area : 0.0259926
Relative ecdf area correlation : -0.103357
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 1.30928e-22
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.490348



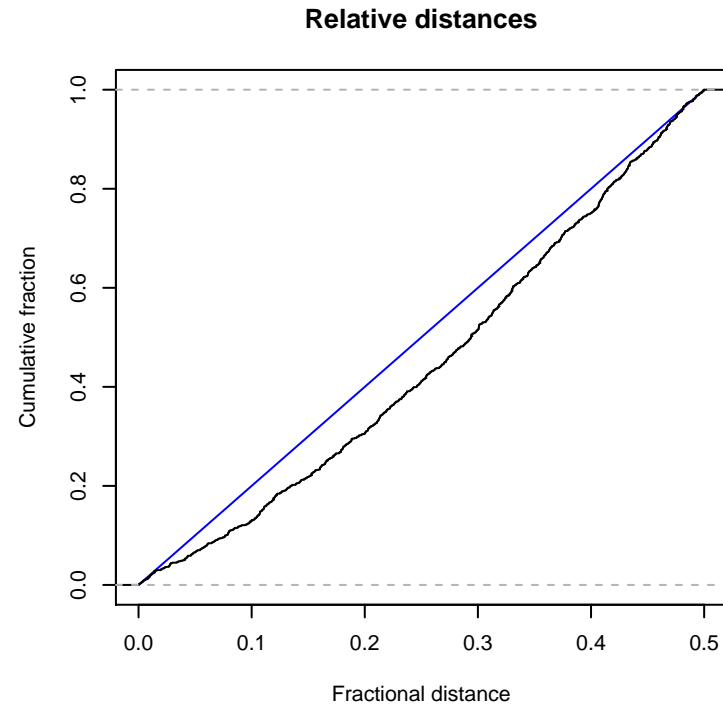
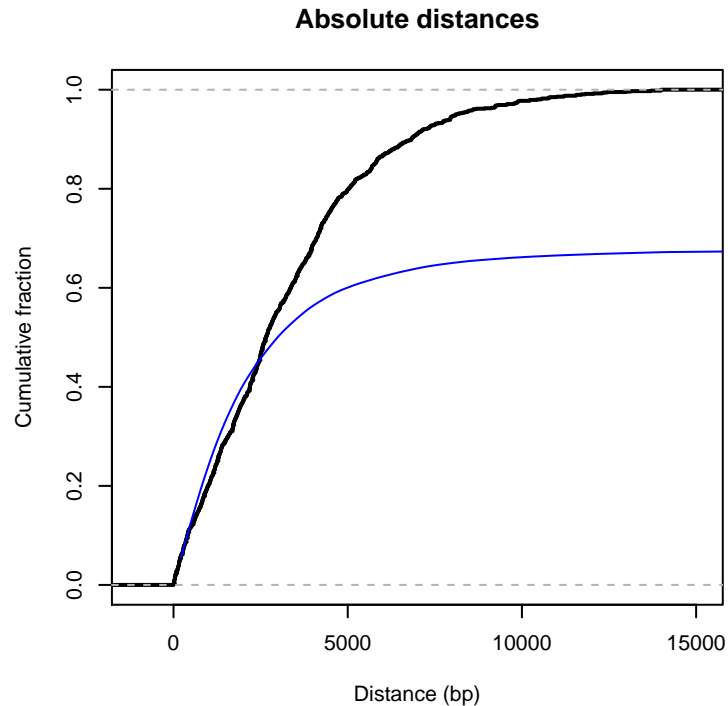
pcontig_005

Query population : 1300
Reference population : 359
Relative Ks p-value : $8.63309e-13$
Relative ecdf deviation area : 0.0301628
Relative ecdf area correlation : -0.120388
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : $1.04617e-31$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.419982



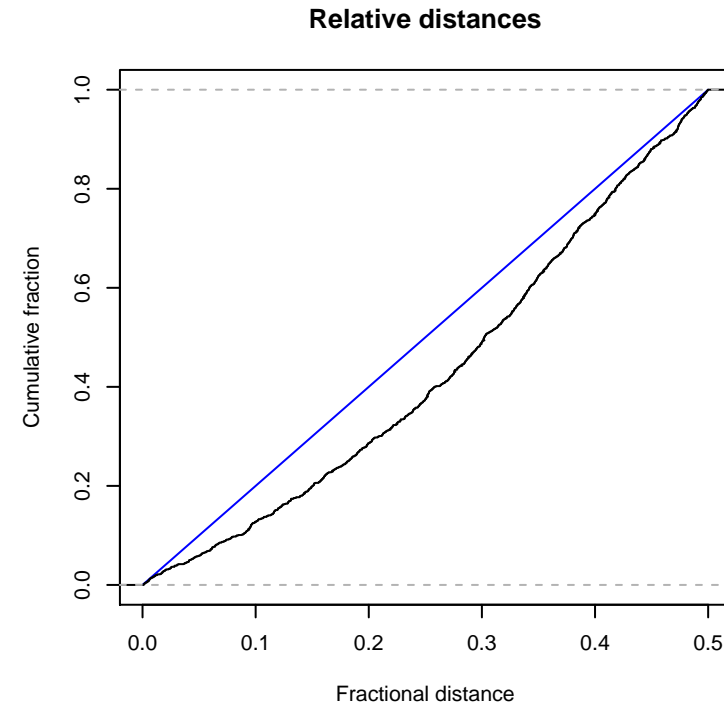
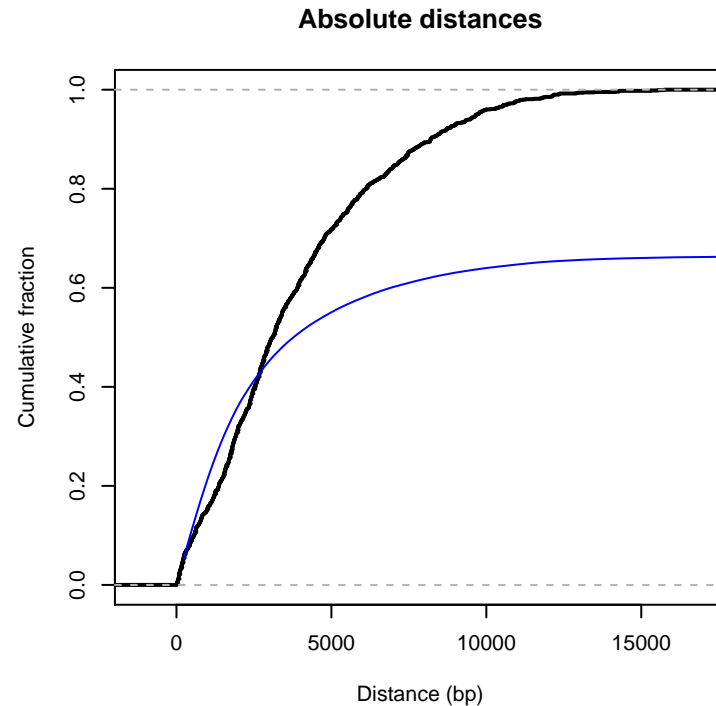
pcontig_006

Query population : 1069
Reference population : 395
Relative Ks p-value : $9.04068e-09$
Relative ecdf deviation area : 0.0276868
Relative ecdf area correlation : -0.110458
Relative ecdf deviation 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 : $5.12892e-12$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.611942



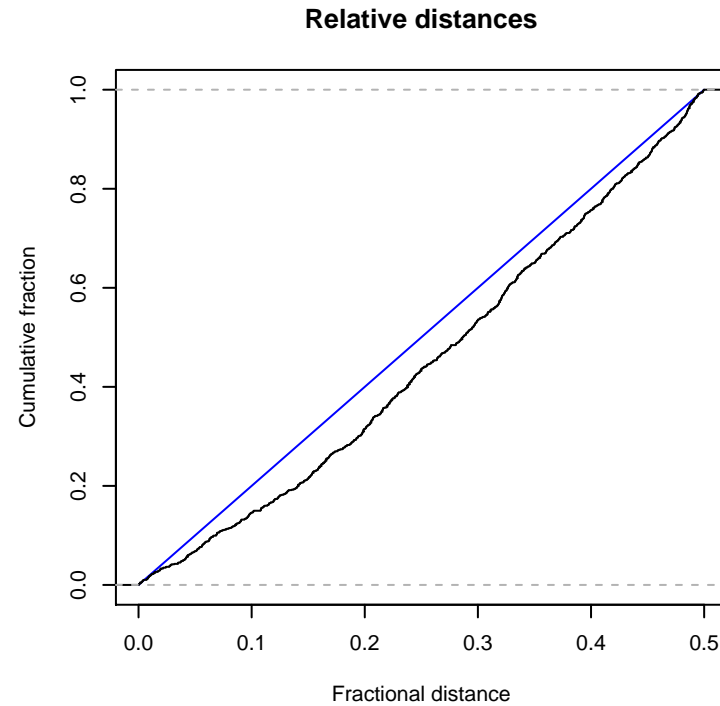
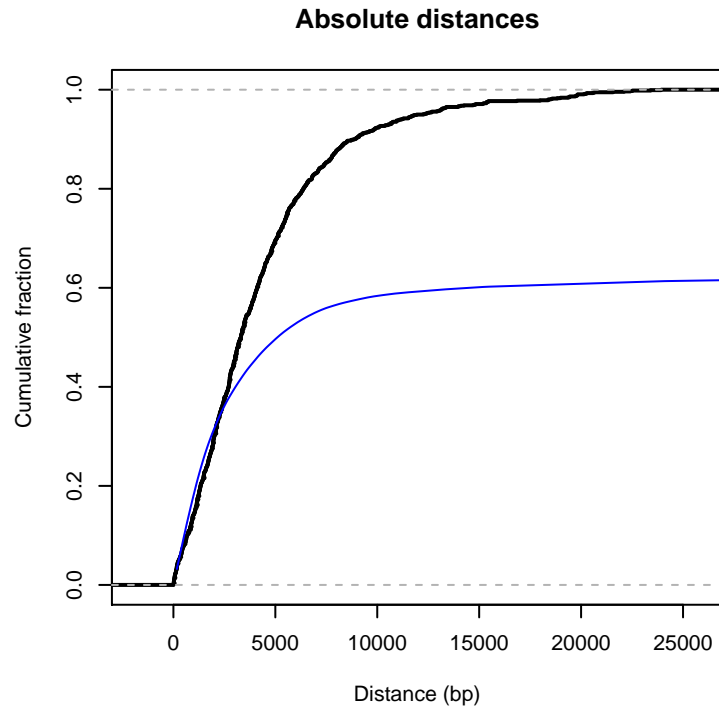
pcontig_007

Query population : 1310
Reference population : 349
Relative Ks p-value : 0
Relative ecdf deviation area : 0.0363616
Relative ecdf area correlation : -0.145581
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 1.68871e-22
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.468137



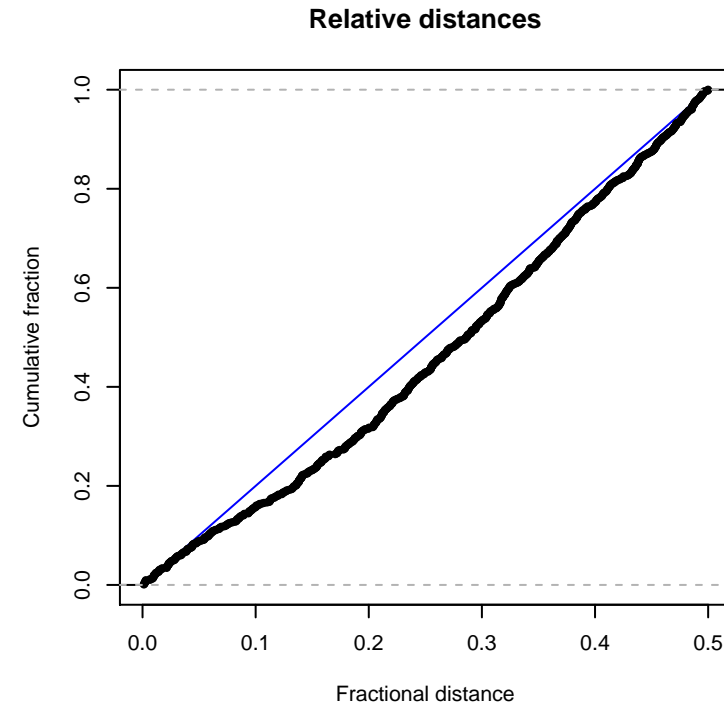
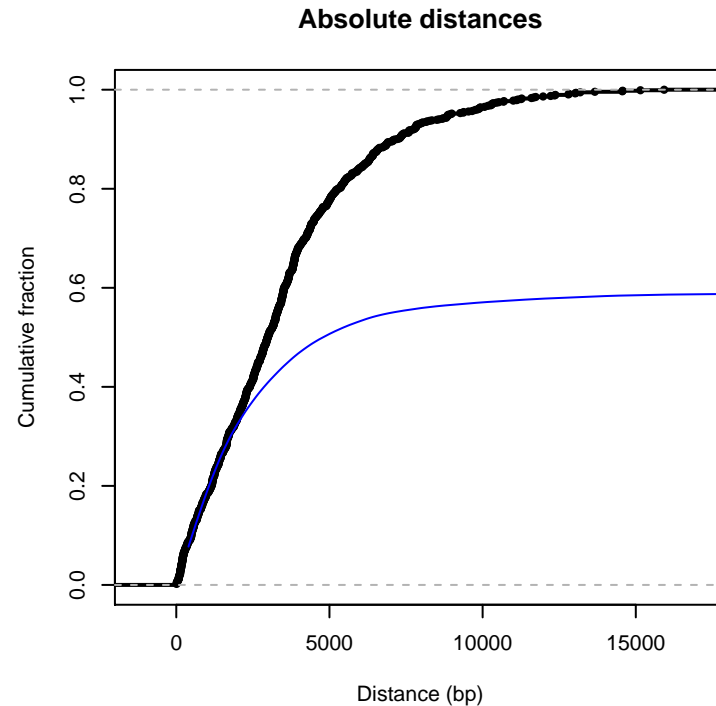
pcontig_008

Query population : 1175
Reference population : 293
Relative Ks p-value : 5.39185e-09
Relative ecdf deviation area : 0.0258691
Relative ecdf area correlation : -0.103926
Relative ecdf deviation 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 : 6.79742e-19
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.463631



pcontig_009

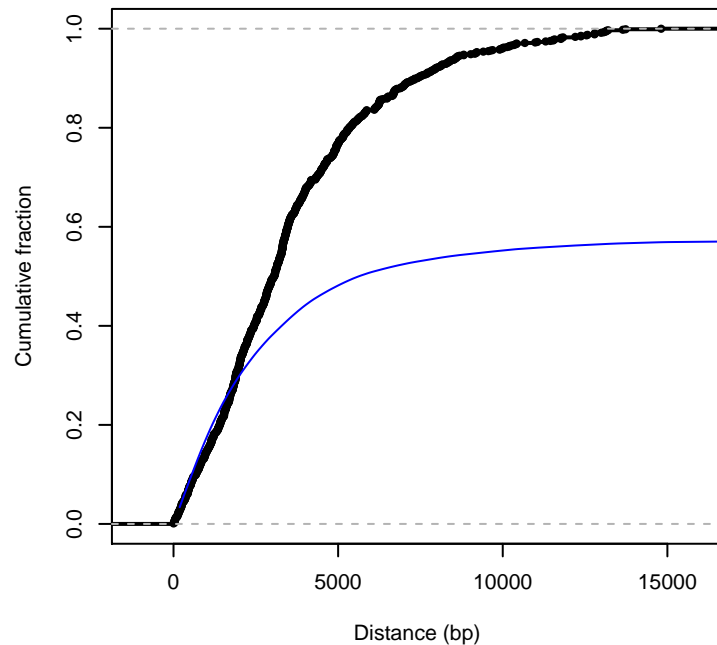
Query population : 954
Reference population : 298
Relative Ks p-value : 4.74087e-07
Relative ecdf deviation area : 0.022245
Relative ecdf area correlation : -0.0887822
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.041324
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.884083



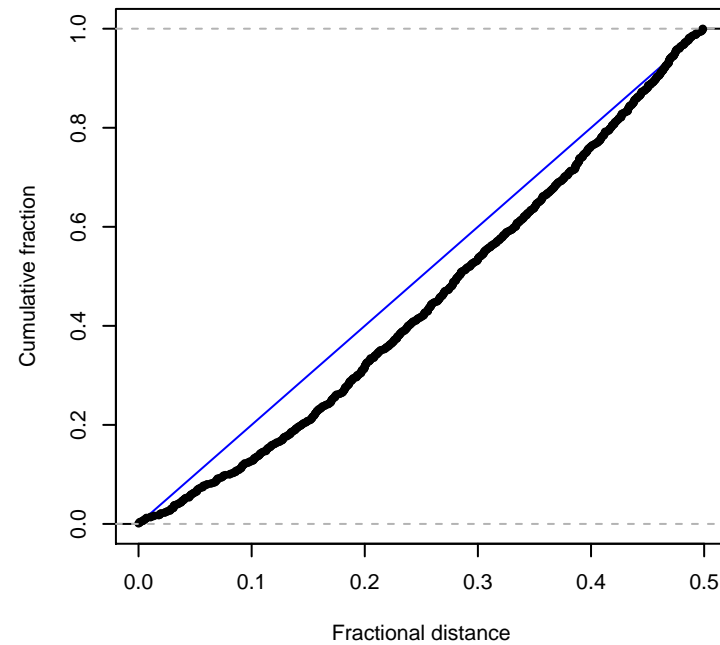
pcontig_010

Query population : 972
Reference population : 279
Relative Ks p-value : $3.1182e-08$
Relative ecdf deviation area : 0.0276599
Relative ecdf area correlation : -0.109894
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : $1.10111e-10$
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.517551

Absolute distances



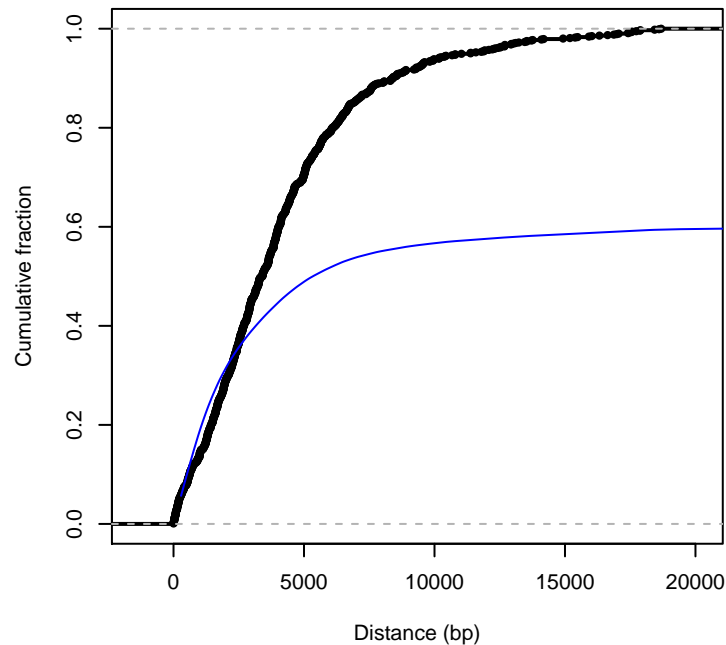
Relative distances



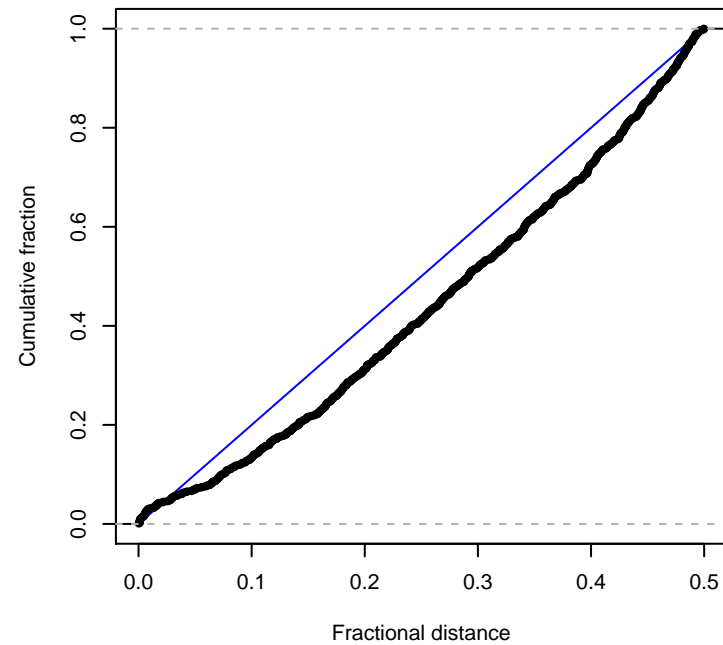
pcontig_011

Query population : 1007
Reference population : 302
Relative Ks p-value : 1.97312×10^{-8}
Relative ecdf deviation area : 0.0325841
Relative ecdf area correlation : -0.128392
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 3.78881×10^{-14}
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.524708

Absolute distances

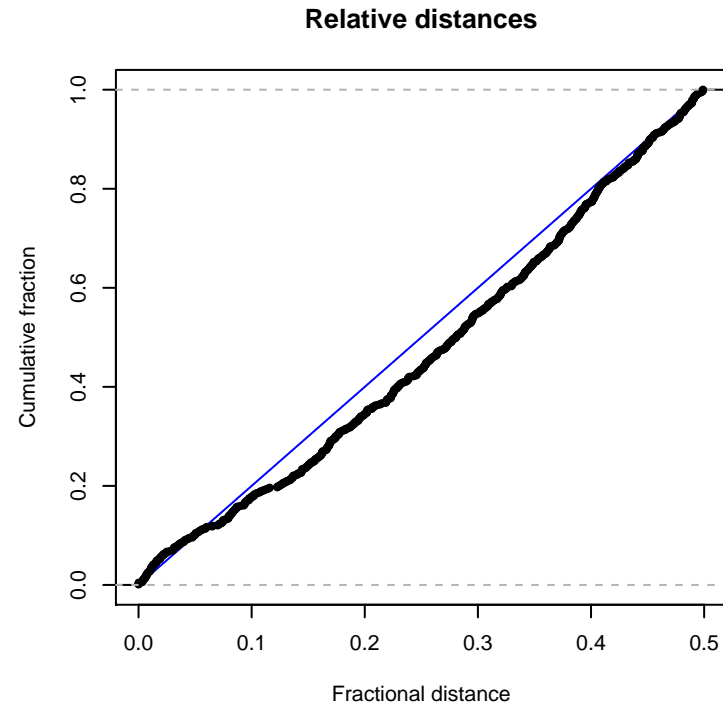
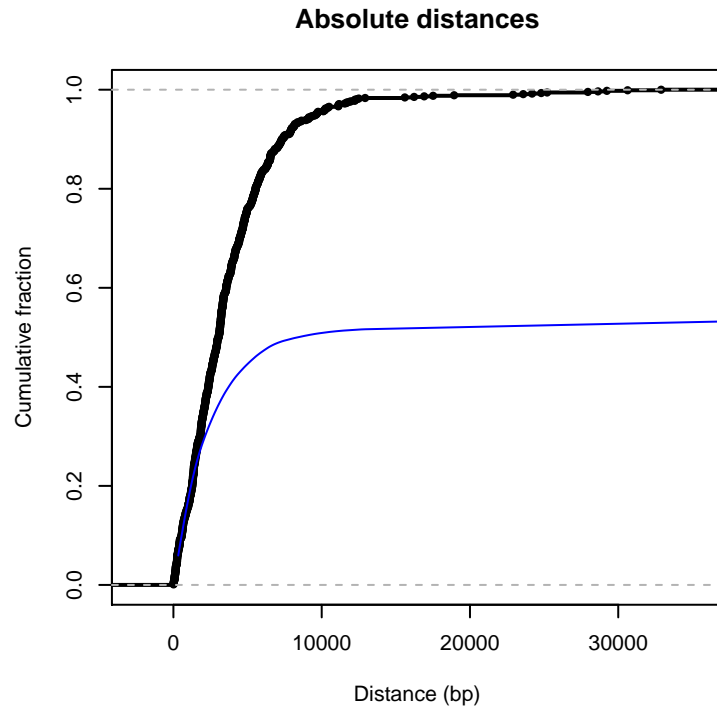


Relative distances



pcontig_012

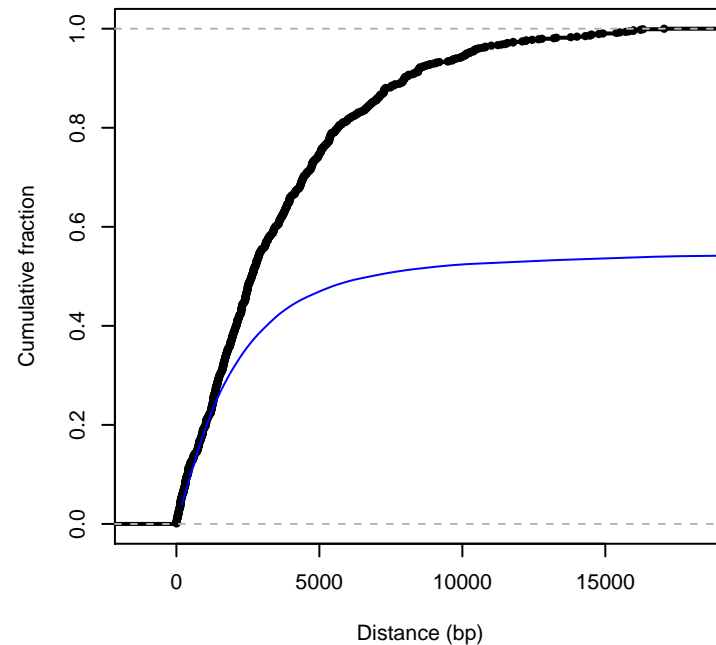
Query population : 897
Reference population : 280
Relative Ks p-value : 0.000284861
Relative ecdf deviation area : 0.0181501
Relative ecdf area correlation : -0.0688086
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.000254057
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.721828



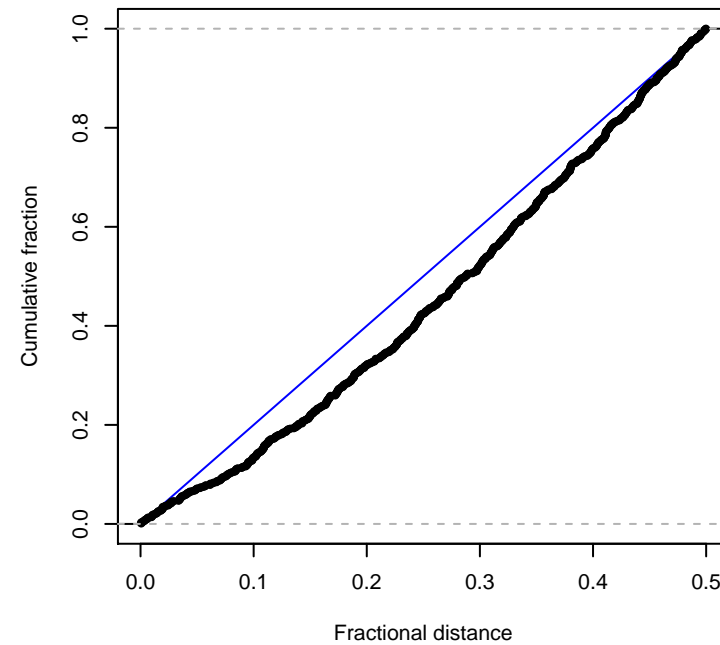
pcontig_013

Query population : 936
Reference population : 312
Relative Ks p-value : 1.07963e-07
Relative ecdf deviation area : 0.0265335
Relative ecdf area correlation : -0.106165
Relative ecdf deviation 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 : 0.0163423
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.836935

Absolute distances



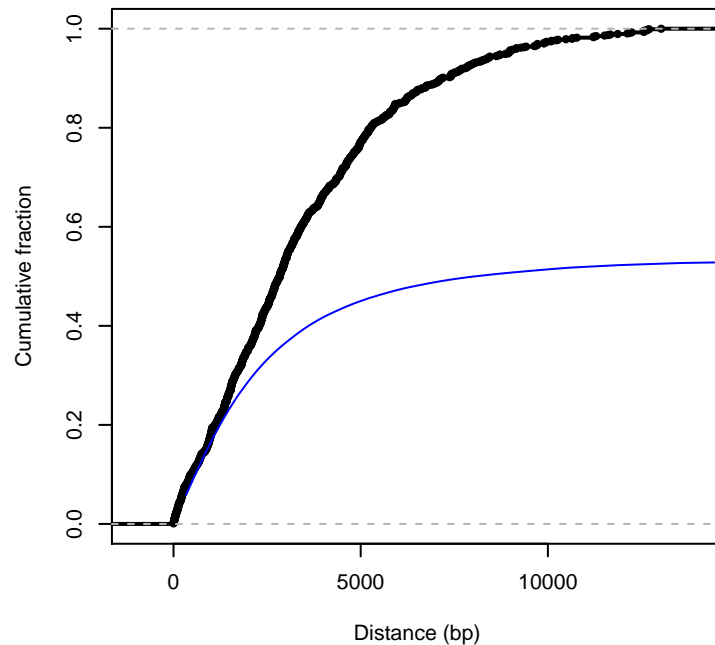
Relative distances



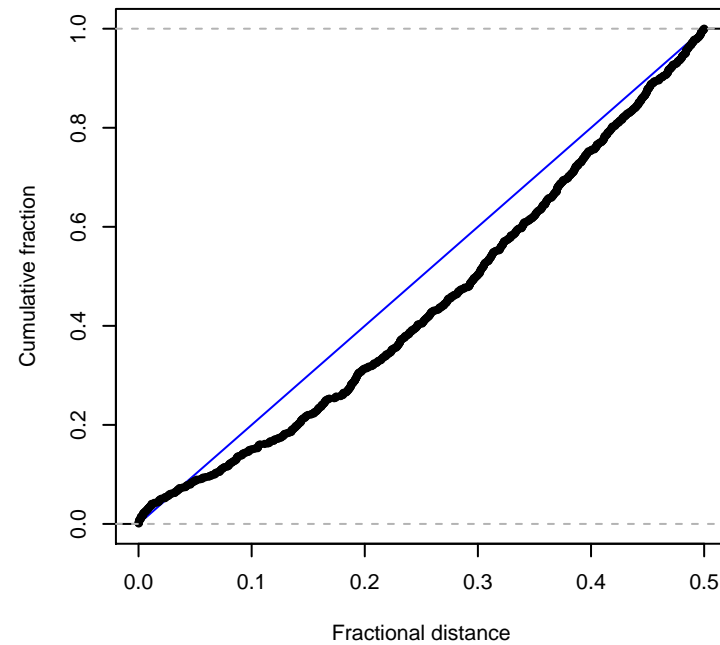
pcontig_014

Query population : 941
Reference population : 267
Relative Ks p-value : 1.51662e-09
Relative ecdf deviation area : 0.0299124
Relative ecdf area correlation : -0.117104
Relative ecdf deviation 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 : TRUE
Projection test p-value : 0.00254918
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.782301

Absolute distances

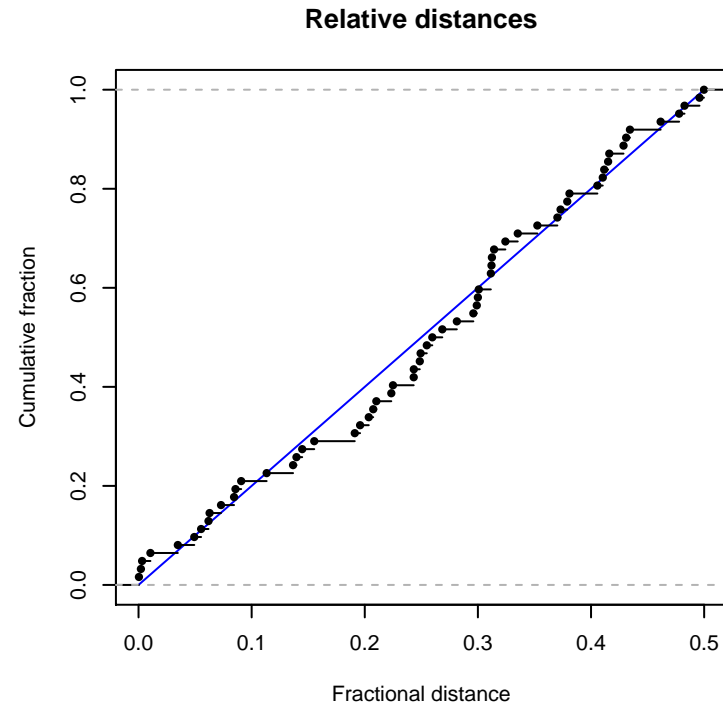
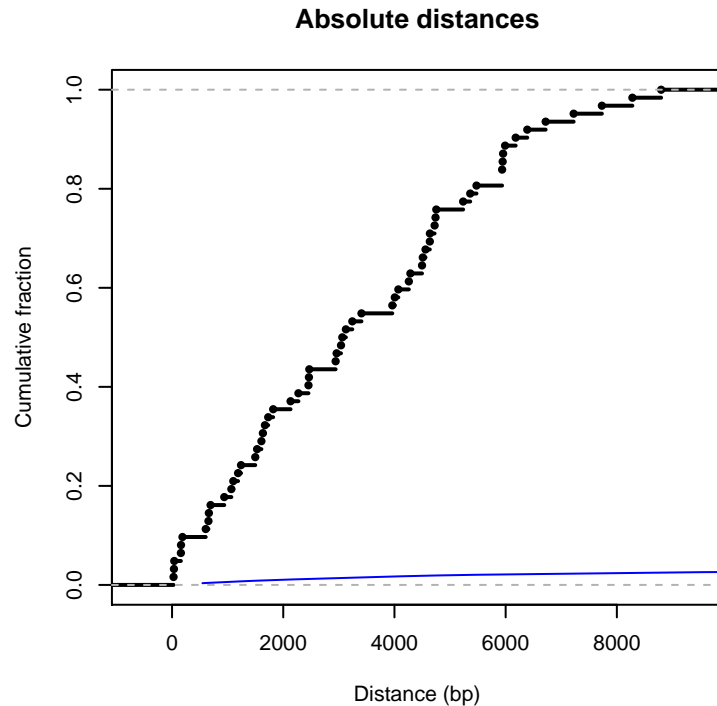


Relative distances



pcontig_015

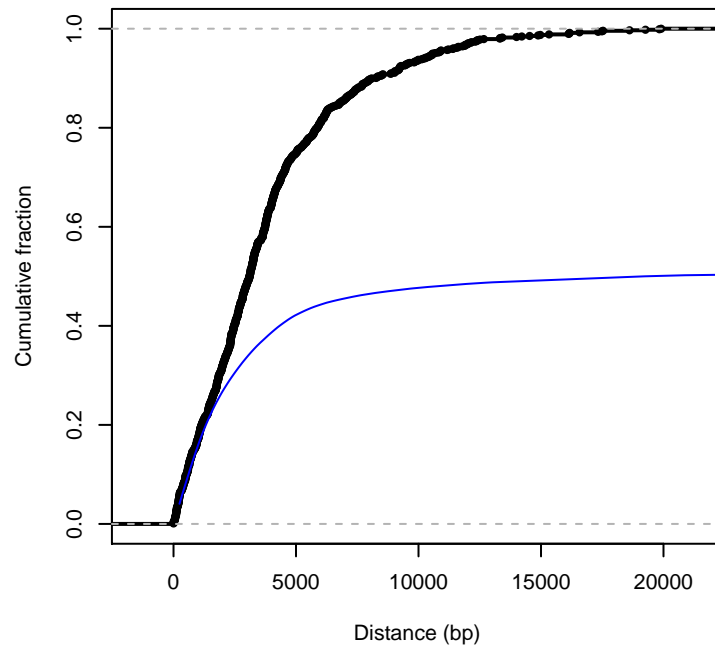
Query population : 62
Reference population : 10
Relative Ks p-value : 0.636596
Relative ecdf deviation area : 0.0138161
Relative ecdf area correlation : -0.0227526
Relative ecdf deviation area p-value : 0.78
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.11647e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 25.9557



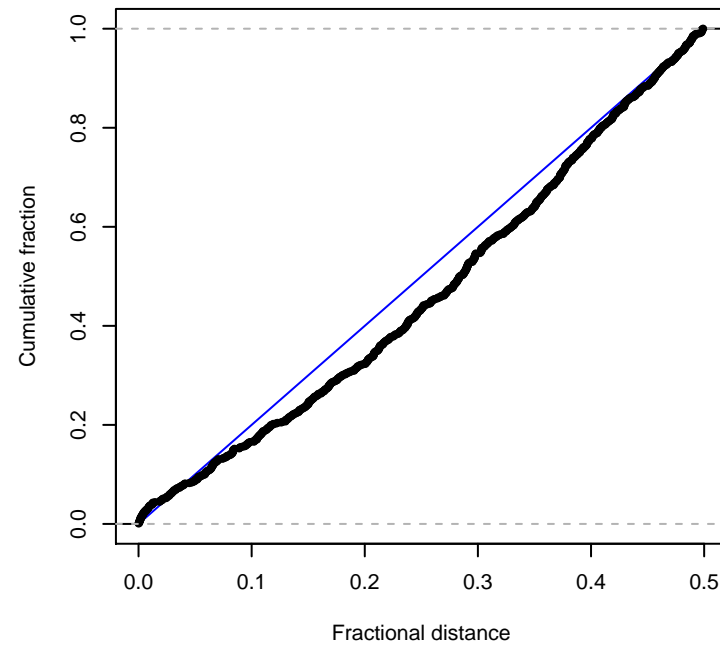
pcontig_016

Query population : 956
Reference population : 257
Relative Ks p-value : 9.54051e-06
Relative ecdf deviation area : 0.0195836
Relative ecdf area correlation : -0.0762505
Relative ecdf deviation 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 : TRUE
Projection test p-value : 0.00155853
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.769176

Absolute distances



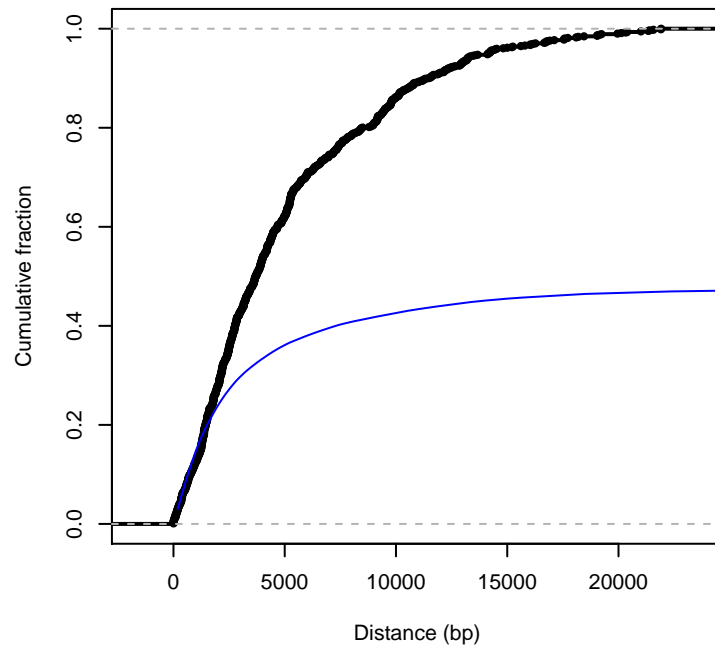
Relative distances



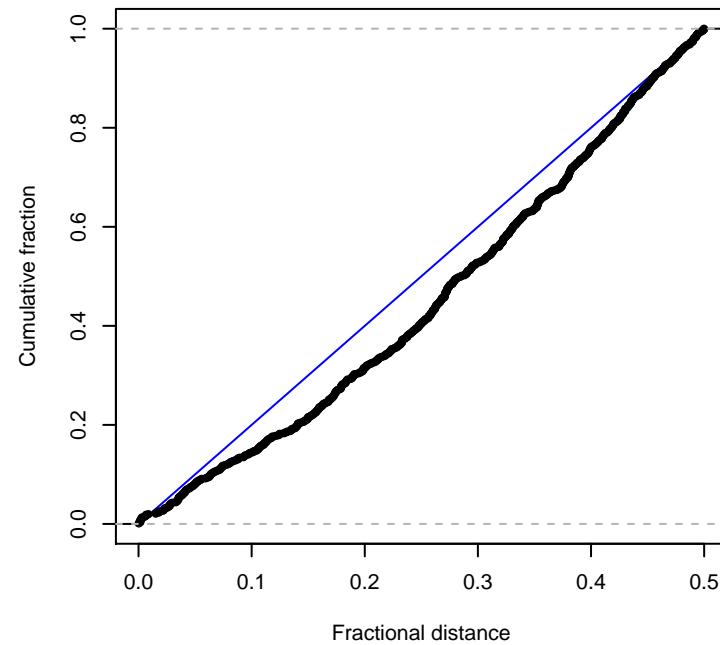
pcontig_017

Query population : 912
Reference population : 244
Relative Ks p-value : 1.31202e-08
Relative ecdf deviation area : 0.0270376
Relative ecdf area correlation : -0.107433
Relative ecdf deviation 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 : TRUE
Projection test p-value : 0.0247767
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.827515

Absolute distances

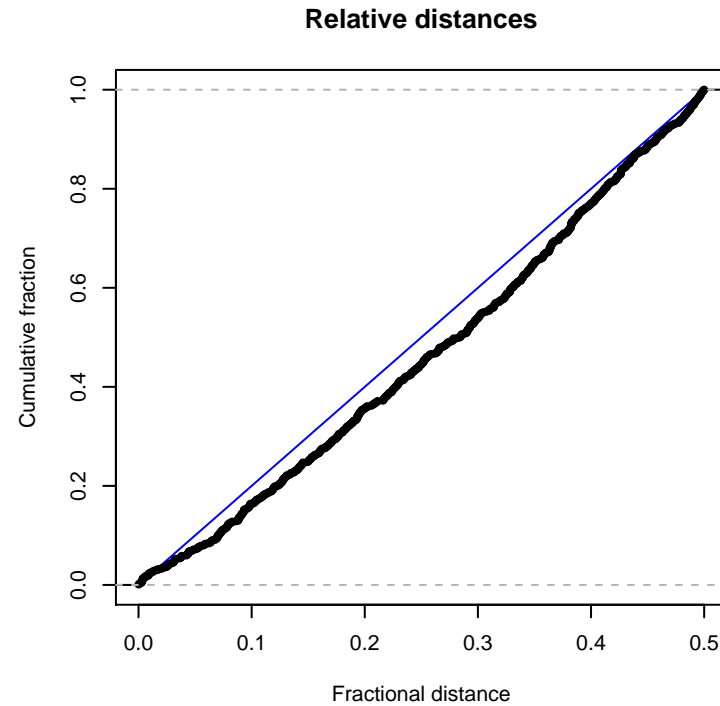
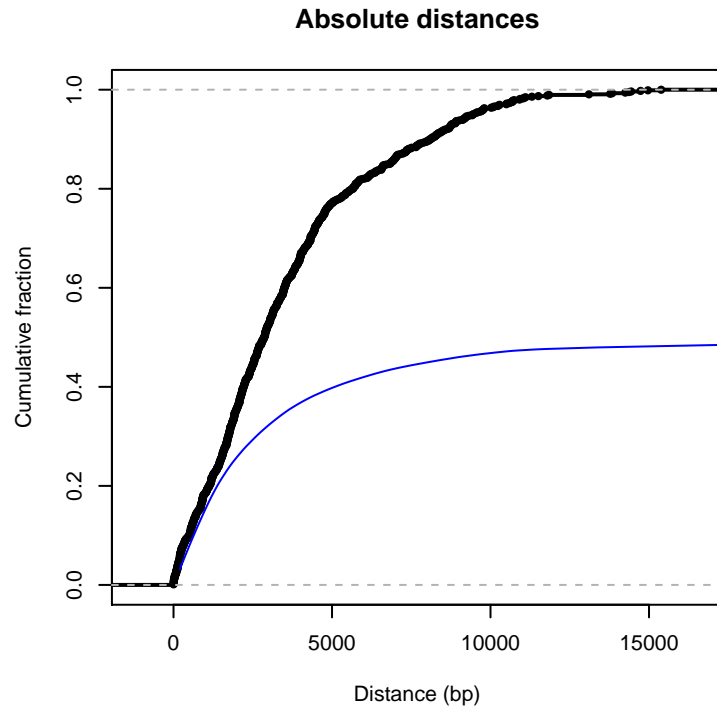


Relative distances



pcontig_018

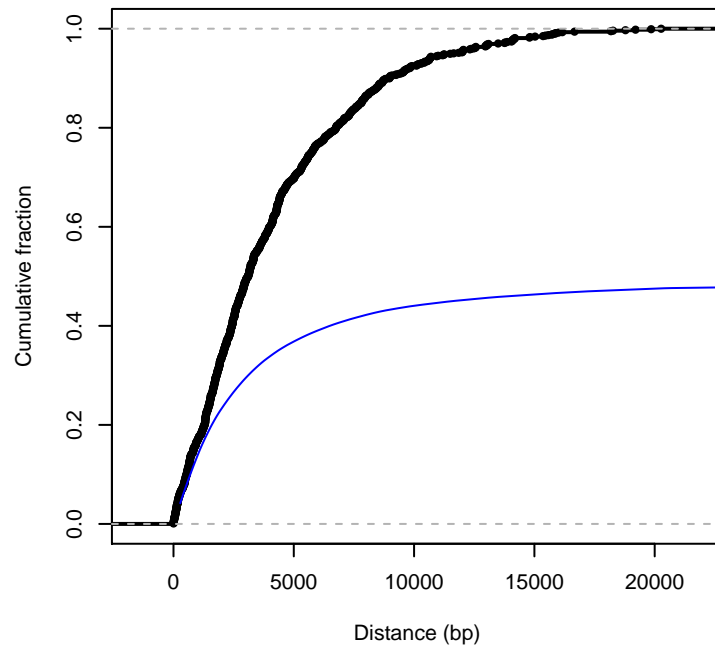
Query population : 854
Reference population : 245
Relative Ks p-value : 0.000311221
Relative ecdf deviation area : 0.0199202
Relative ecdf area correlation : -0.0792102
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.002957
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.744358



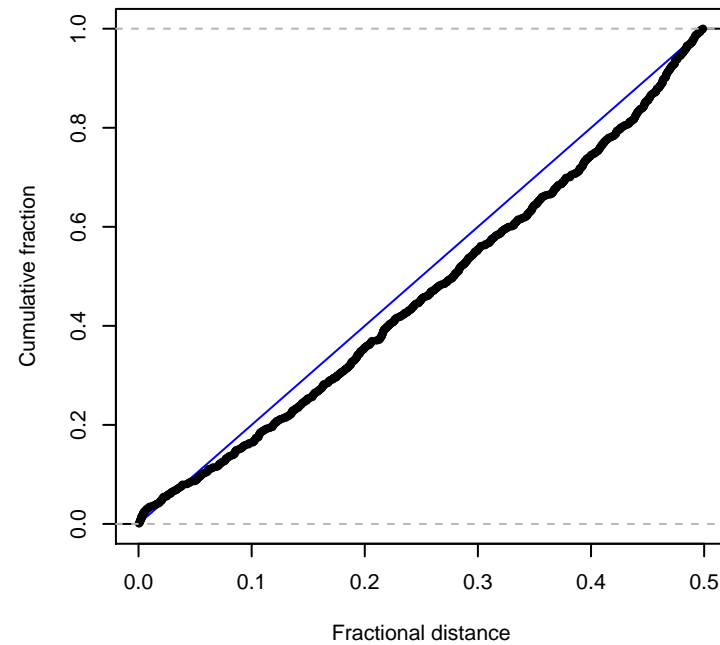
pcontig_019

Query population : 1007
Reference population : 229
Relative Ks p-value : 0.000229445
Relative ecdf deviation area : 0.0202272
Relative ecdf area correlation : -0.0792007
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.17
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0811435
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.12254

Absolute distances

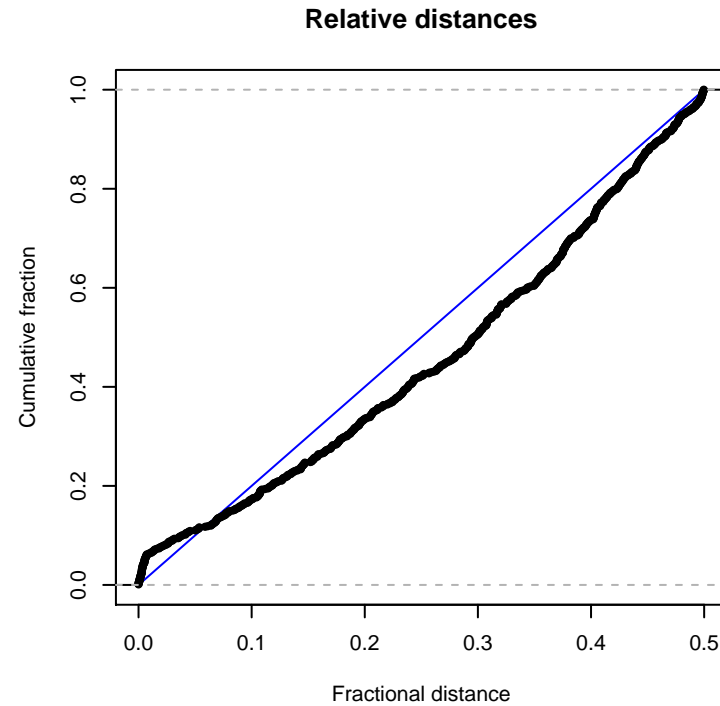
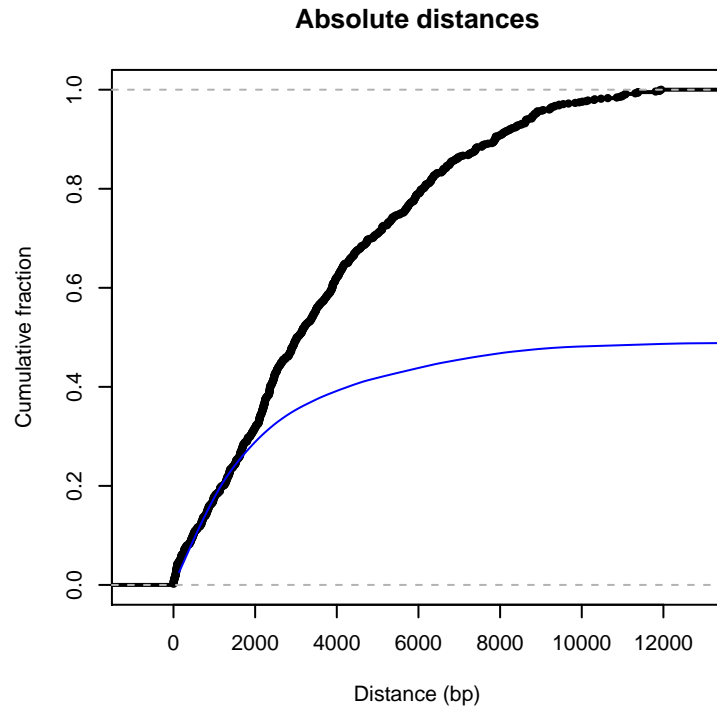


Relative distances



pcontig_020

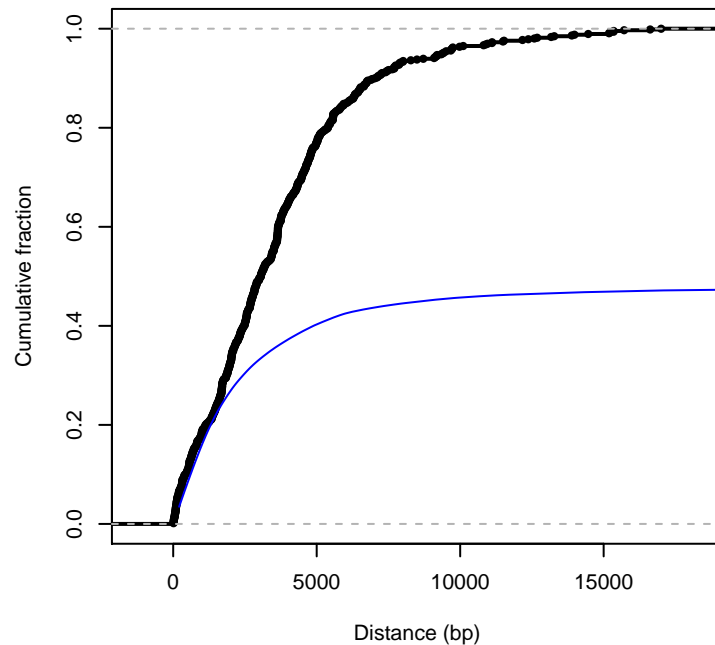
Query population : 826
Reference population : 287
Relative Ks p-value : 3.85799e-08
Relative ecdf deviation area : 0.0269181
Relative ecdf area correlation : -0.0954778
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : TRUE
Projection test p-value : 3.11717e-05
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.668642



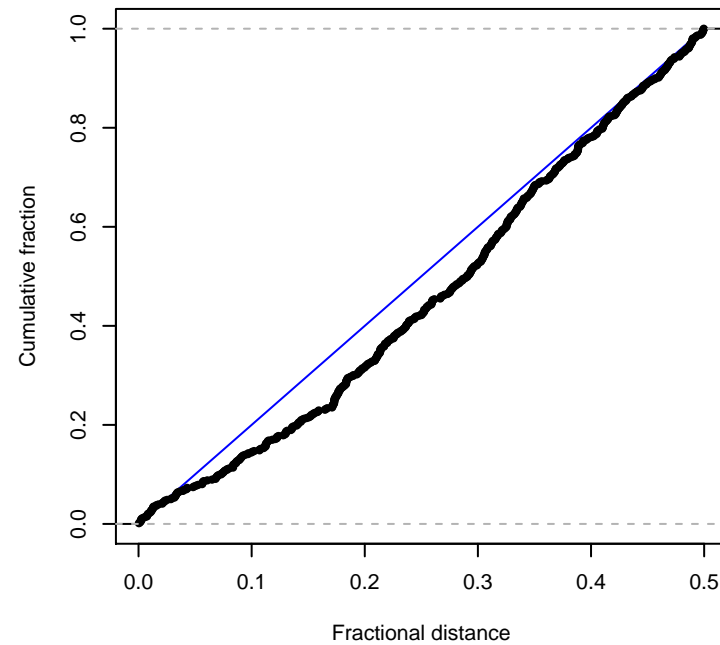
pcontig_021

Query population : 659
Reference population : 258
Relative Ks p-value : $3.73071e-07$
Relative ecdf deviation area : 0.0229187
Relative ecdf area correlation : -0.0911276
Relative ecdf deviation 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 : 0.0535625
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.844742

Absolute distances

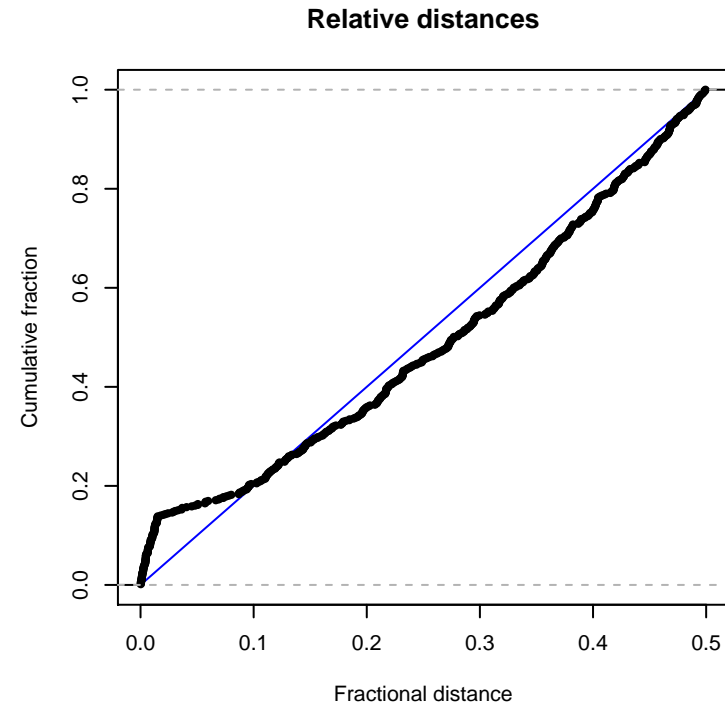
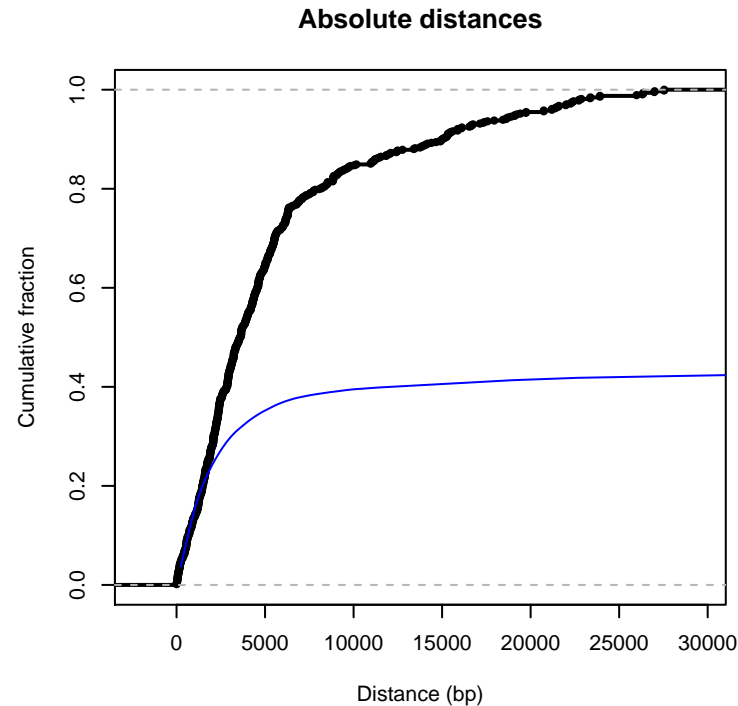


Relative distances



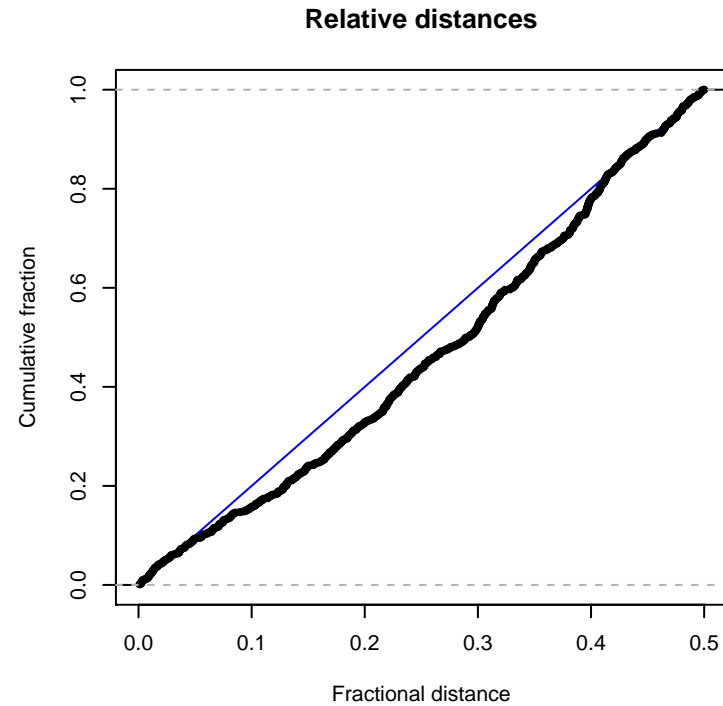
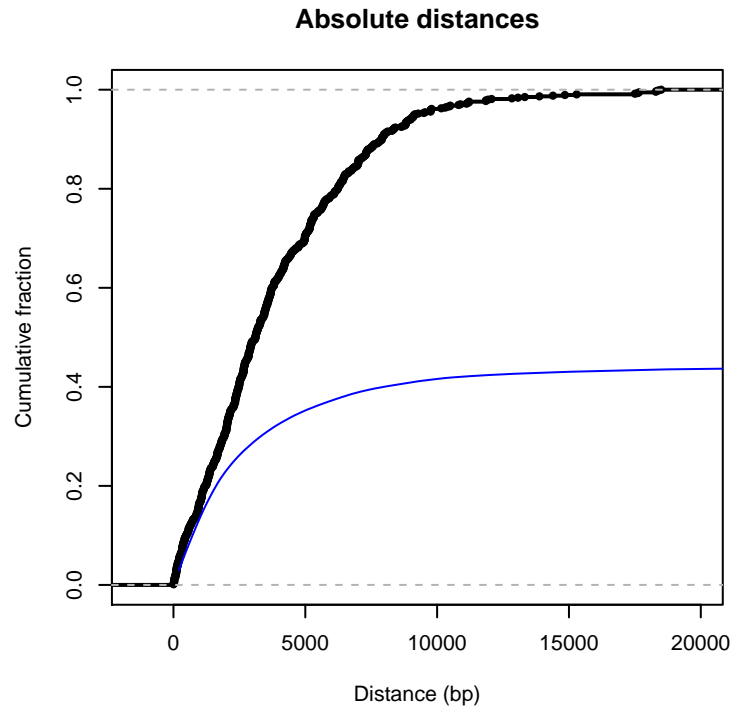
pcontig_022

Query population : 643
Reference population : 241
Relative Ks p-value : 6.04274e-07
Relative ecdf deviation area : 0.0199793
Relative ecdf area correlation : -0.0378255
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.15
Jaccard Measure lower tail : TRUE
Projection test p-value : 1.07185e-06
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.535503



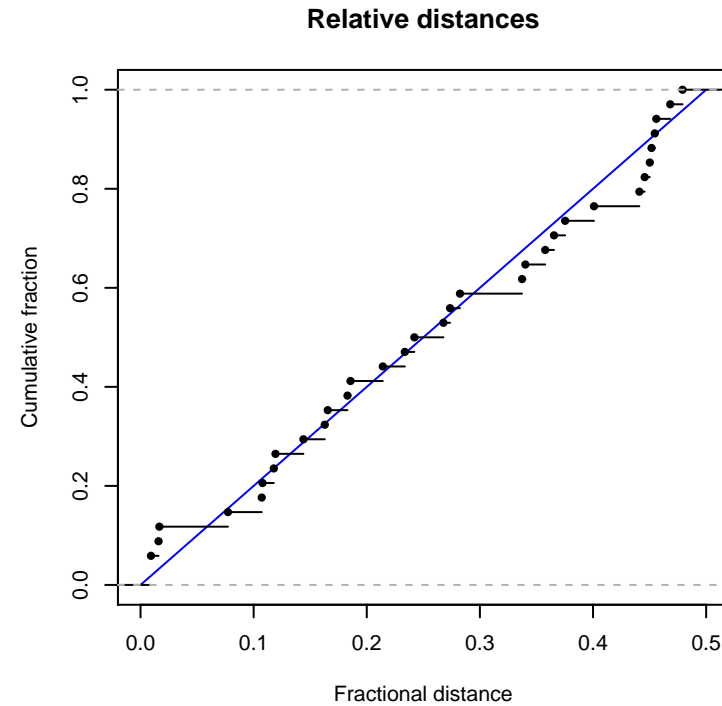
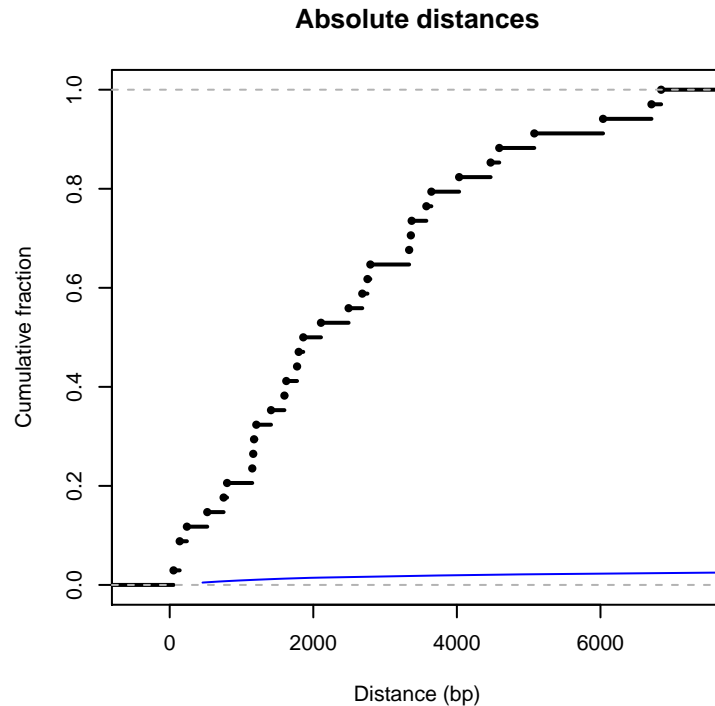
pcontig_023

Query population : 747
Reference population : 221
Relative Ks p-value : $3.0079e-05$
Relative ecdf deviation area : 0.0206982
Relative ecdf area correlation : -0.081517
Relative ecdf deviation 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 : 0.00556204
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.750416



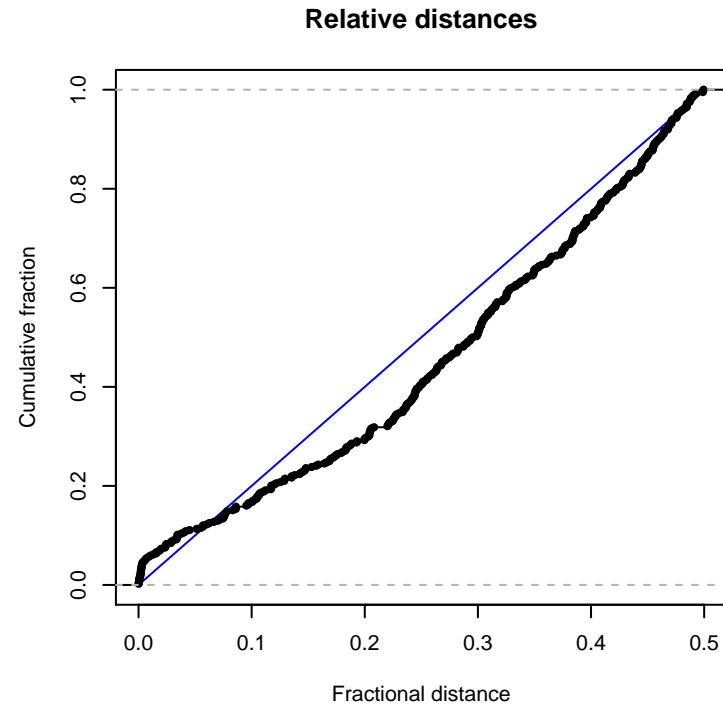
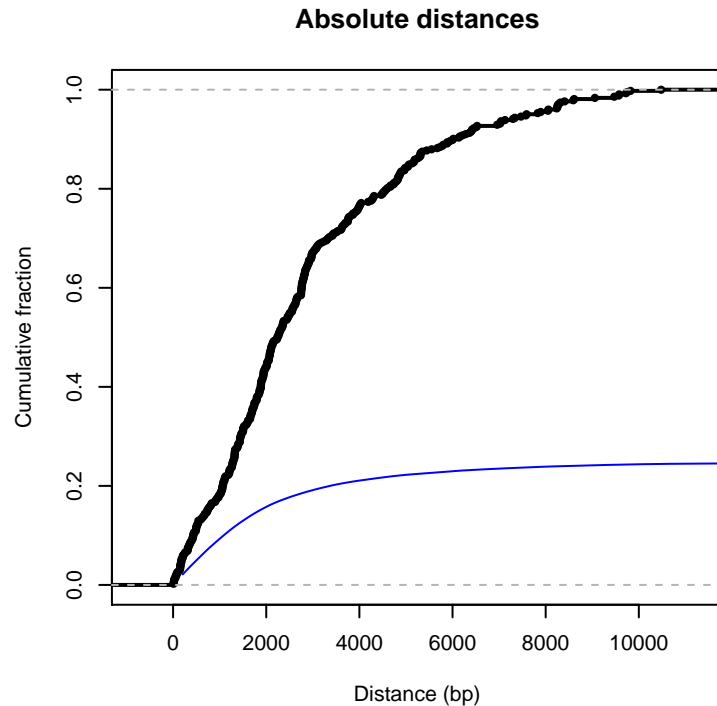
pcontig_024

Query population : 34
Reference population : 16
Relative Ks p-value : 0.694606
Relative ecdf deviation area : 0.0176466
Relative ecdf area correlation : -0.0303895
Relative ecdf deviation area p-value : 0.78
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.85601e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 26.7766



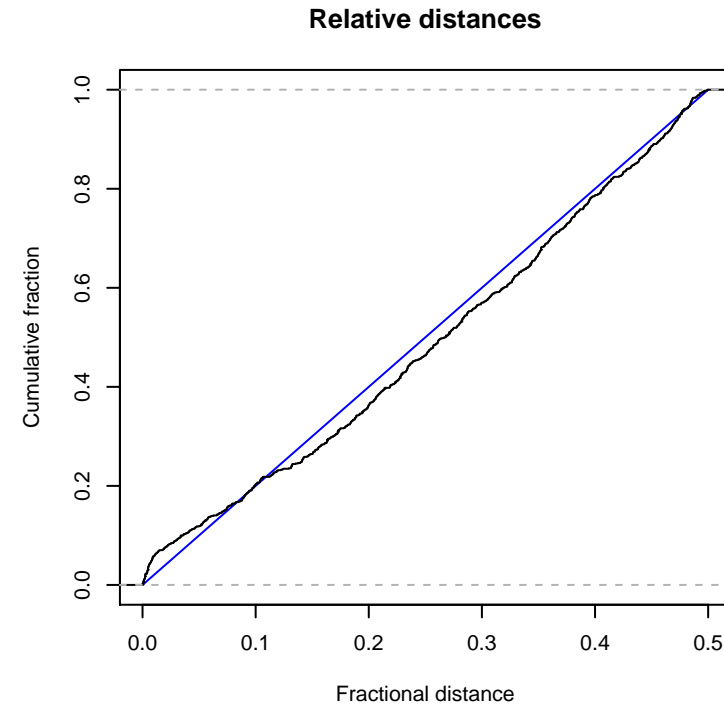
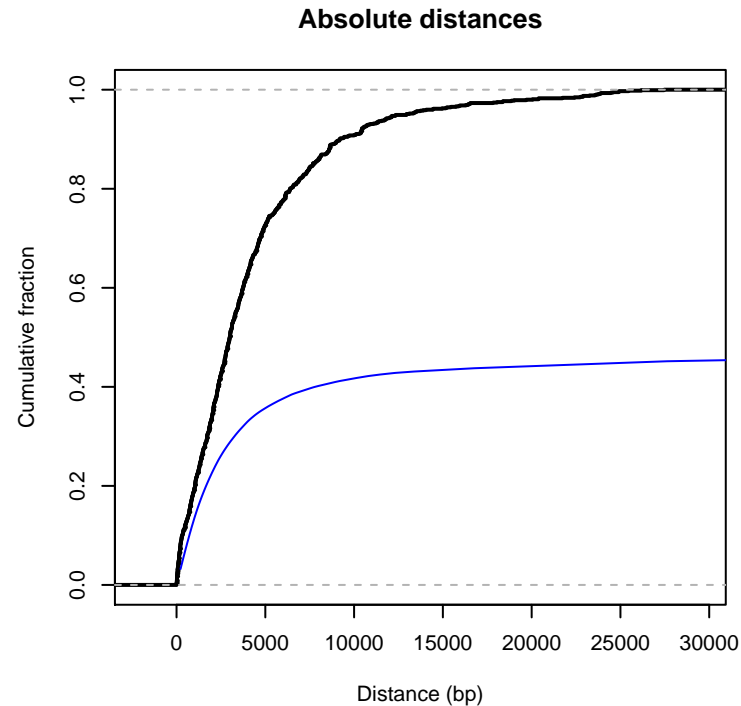
pcontig_025

Query population : 424
Reference population : 158
Relative Ks p-value : 7.06388e-06
Relative ecdf deviation area : 0.0285017
Relative ecdf area correlation : -0.102575
Relative ecdf deviation 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 : 0.00163195
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.53549



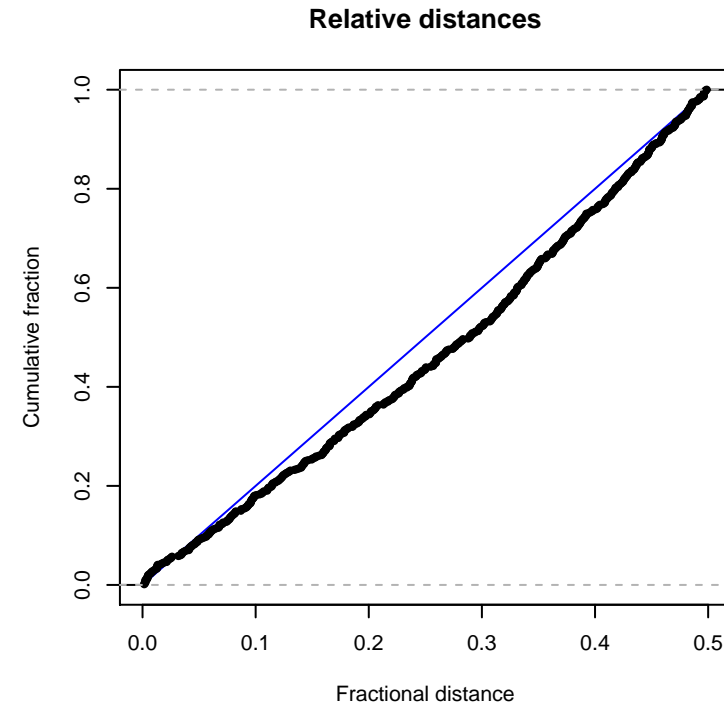
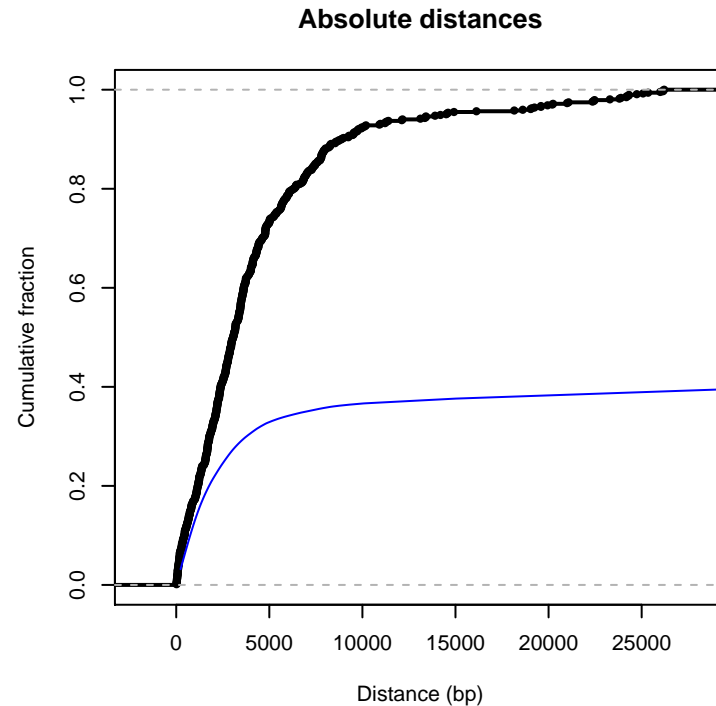
pcontig_026

Query population : 1040
Reference population : 220
Relative Ks p-value : 0.043571
Relative ecdf deviation area : 0.0120275
Relative ecdf area correlation : -0.0319635
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.17
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0143639
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.20761



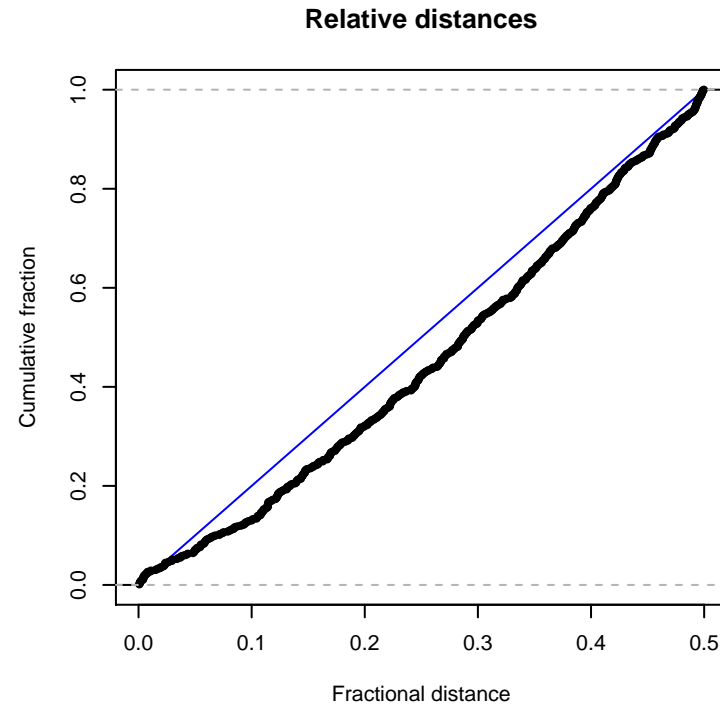
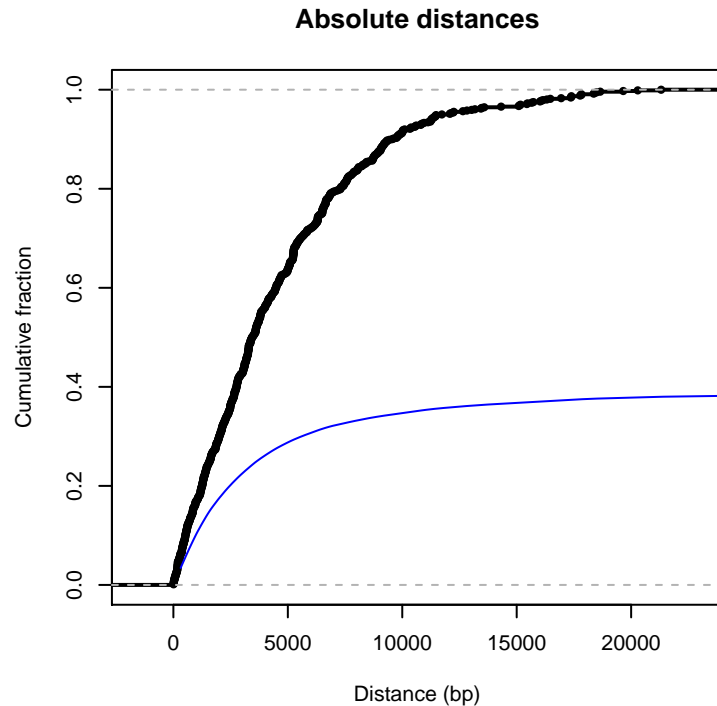
pcontig_027

Query population : 667
Reference population : 209
Relative Ks p-value : 0.000191808
Relative ecdf deviation area : 0.0199197
Relative ecdf area correlation : -0.0790912
Relative ecdf deviation 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 : 0.0154872
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.2489



pcontig_028

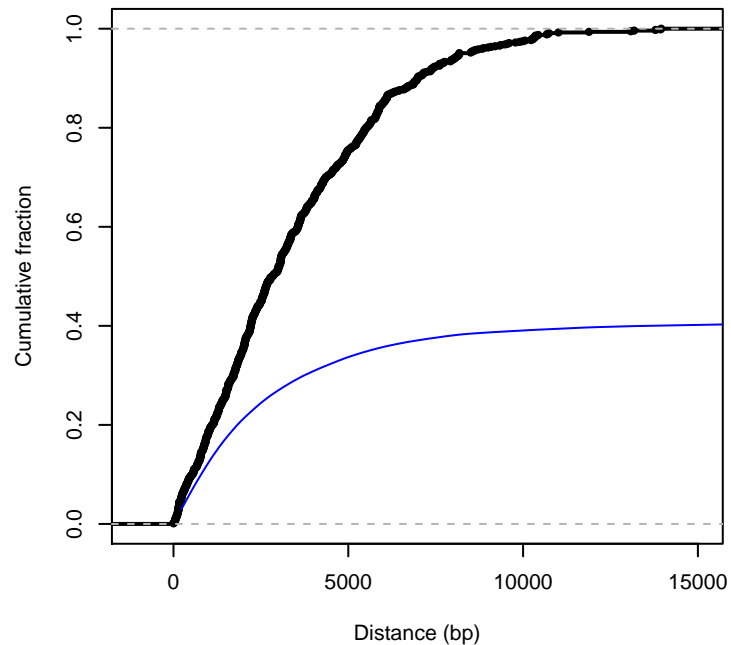
Query population : 761
Reference population : 166
Relative Ks p-value : 8.03391e-06
Relative ecdf deviation area : 0.0266626
Relative ecdf area correlation : -0.106733
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0293724
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.19747



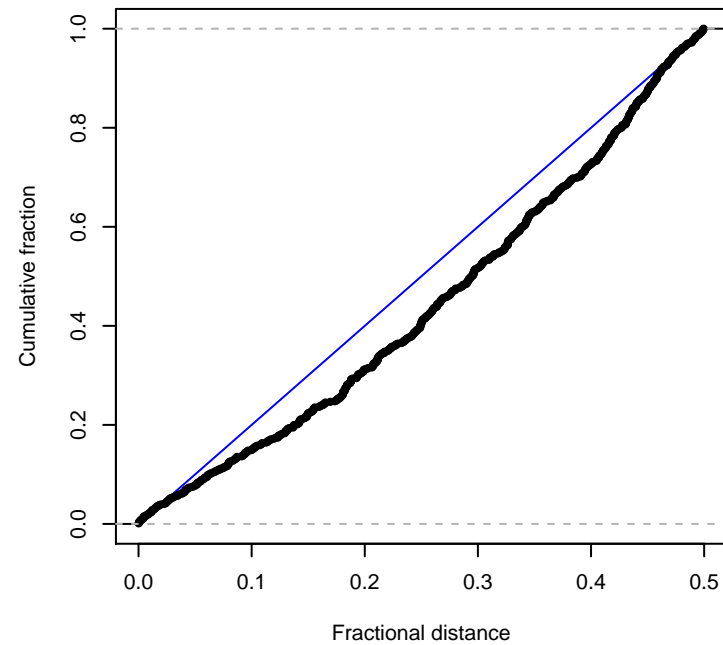
pcontig_029

Query population : 791
Reference population : 201
Relative Ks p-value : 5.16416e-08
Relative ecdf deviation area : 0.0302142
Relative ecdf area correlation : -0.119701
Relative ecdf deviation 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 : 0.255125
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.917238

Absolute distances



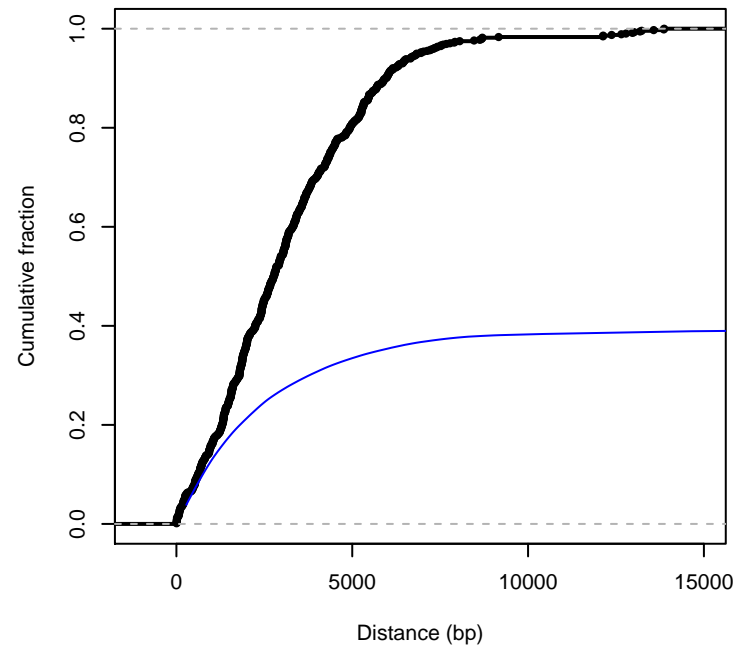
Relative distances



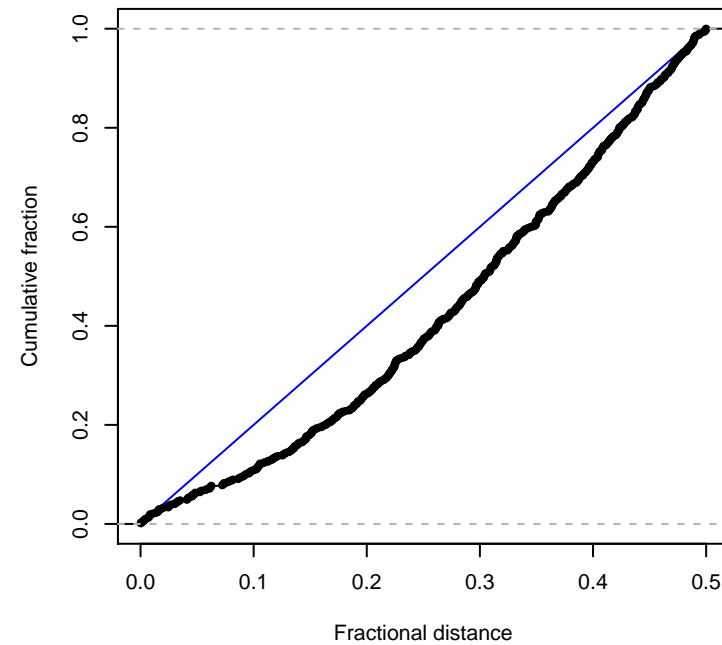
pcontig_030

Query population : 715
Reference population : 211
Relative Ks p-value : 6.07403e-13
Relative ecdf deviation area : 0.0407684
Relative ecdf area correlation : -0.163521
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.2
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.399944
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.963567

Absolute distances

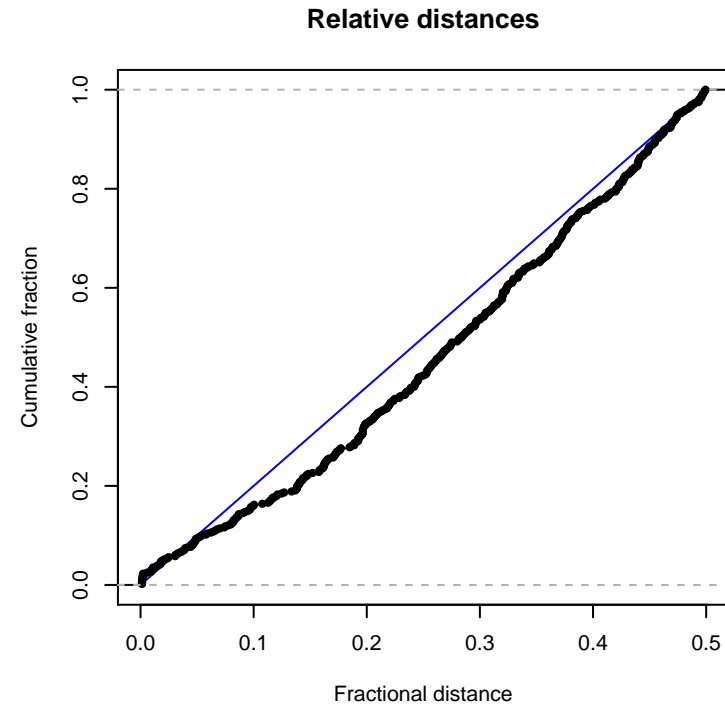
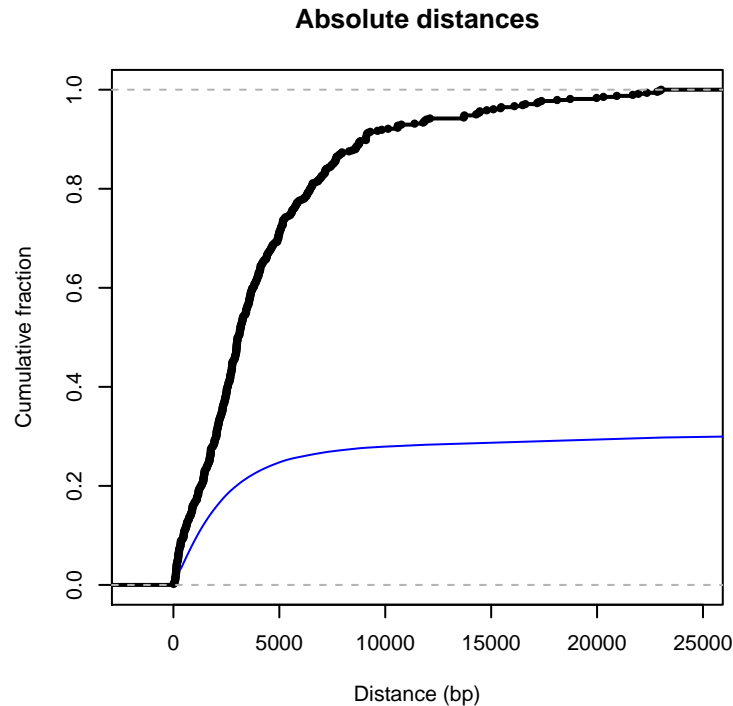


Relative distances



pcontig_031

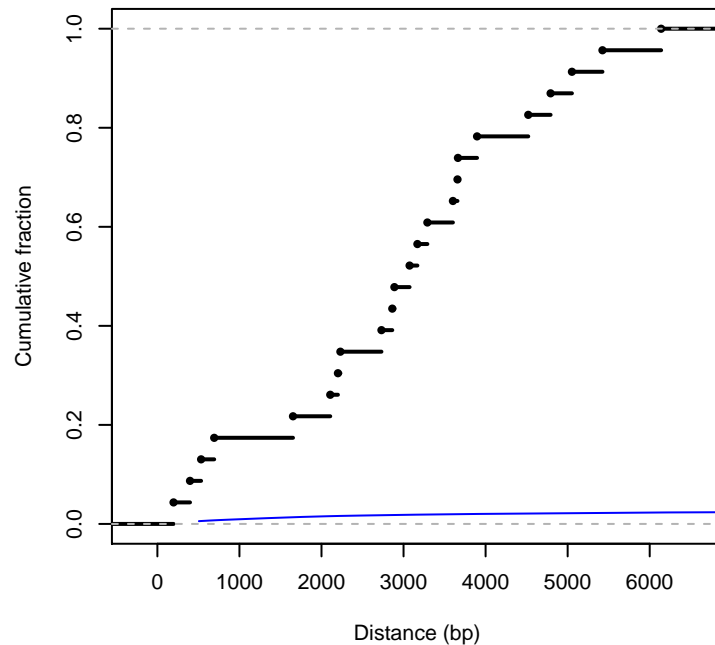
Query population : 482
Reference population : 143
Relative Ks p-value : 0.000201482
Relative ecdf deviation area : 0.023355
Relative ecdf area correlation : -0.091807
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00546259
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.41397



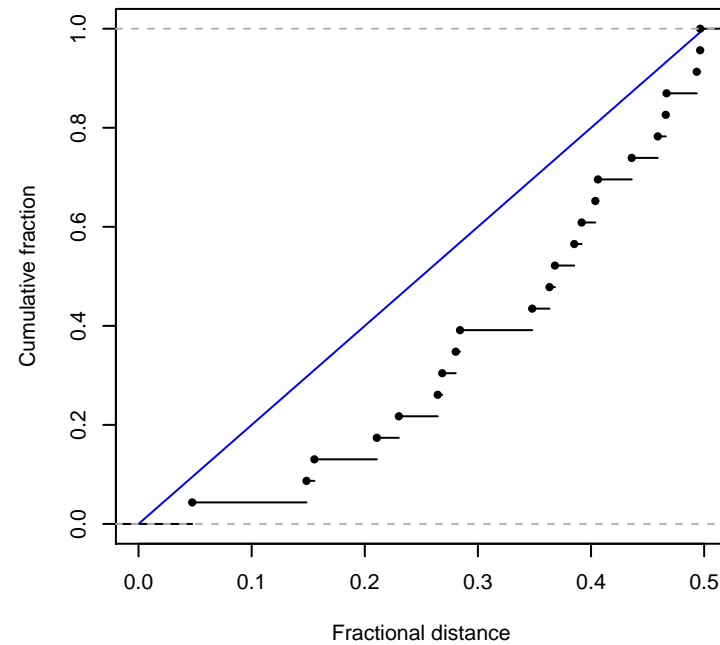
pcontig_032

Query population : 23
Reference population : 17
Relative Ks p-value : 0.0175862
Relative ecdf deviation area : 0.0920124
Relative ecdf area correlation : -0.368723
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000409975
Projection test lower tail : FALSE
Projection test observed to expected ratio : 13.7205

Absolute distances

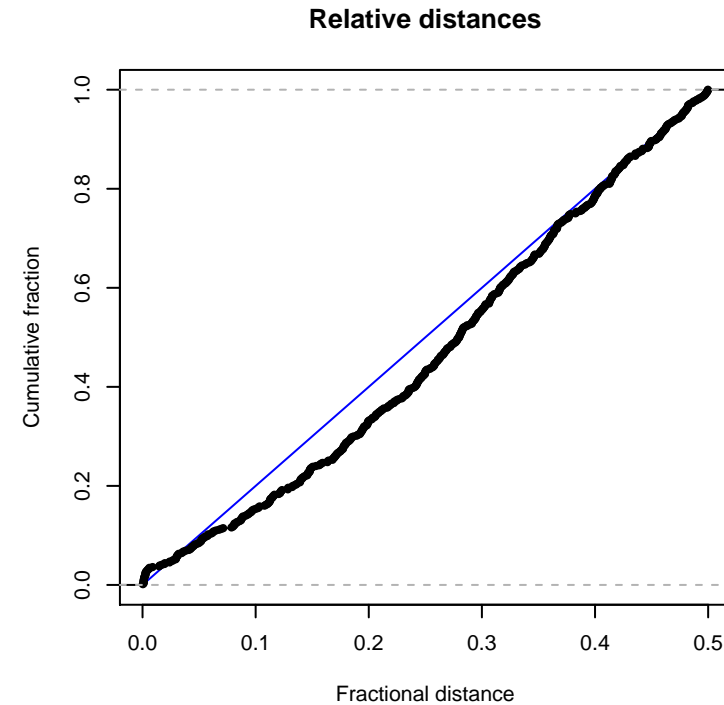
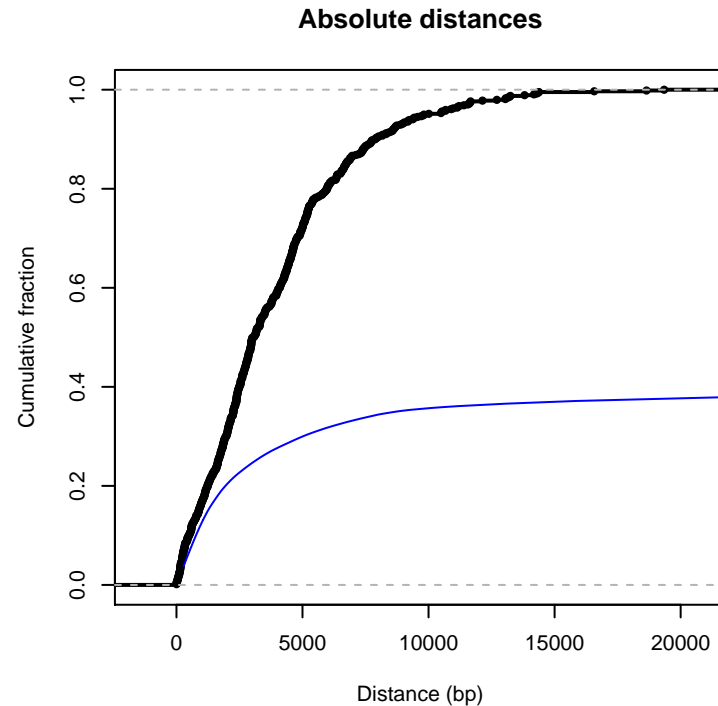


Relative distances



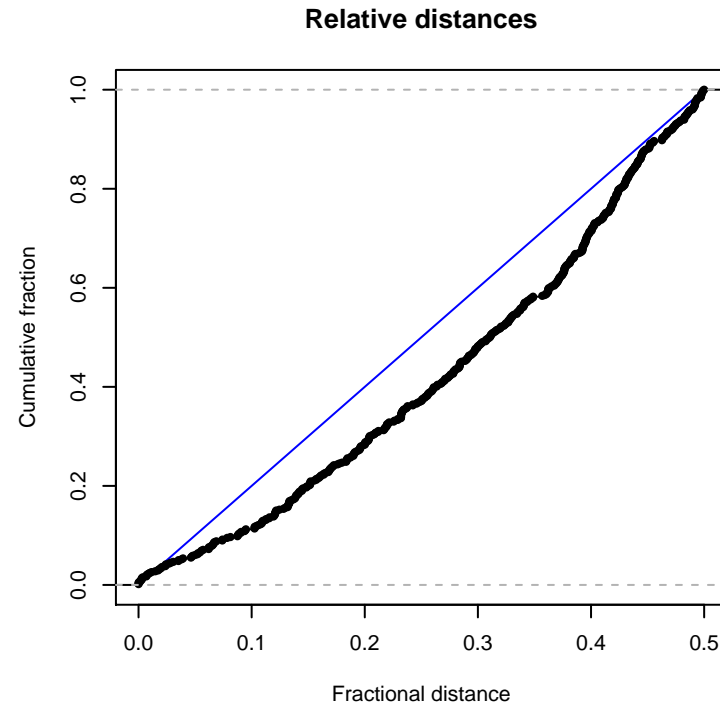
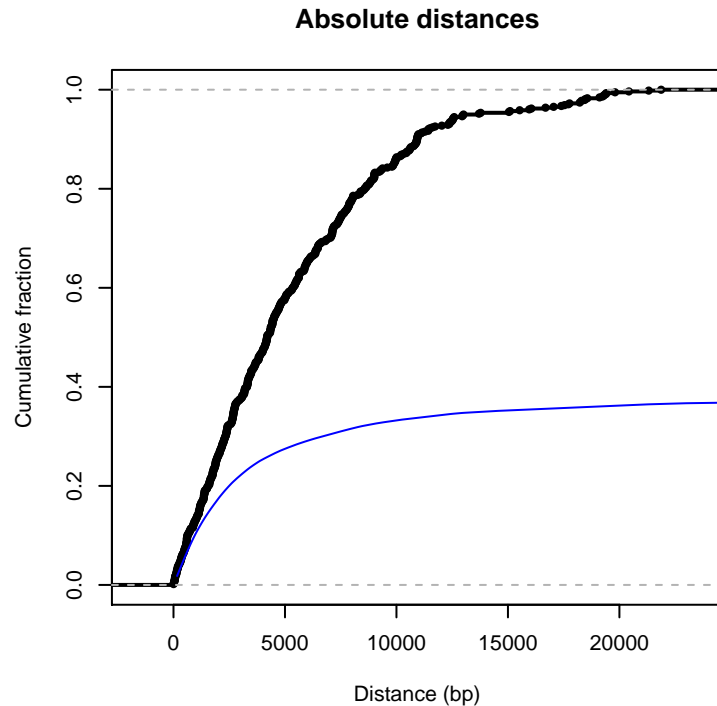
pcontig_033

Query population : 637
Reference population : 205
Relative Ks p-value : 0.000214686
Relative ecdf deviation area : 0.0190318
Relative ecdf area correlation : -0.0727872
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.15
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.381617
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.951985



pcontig_034

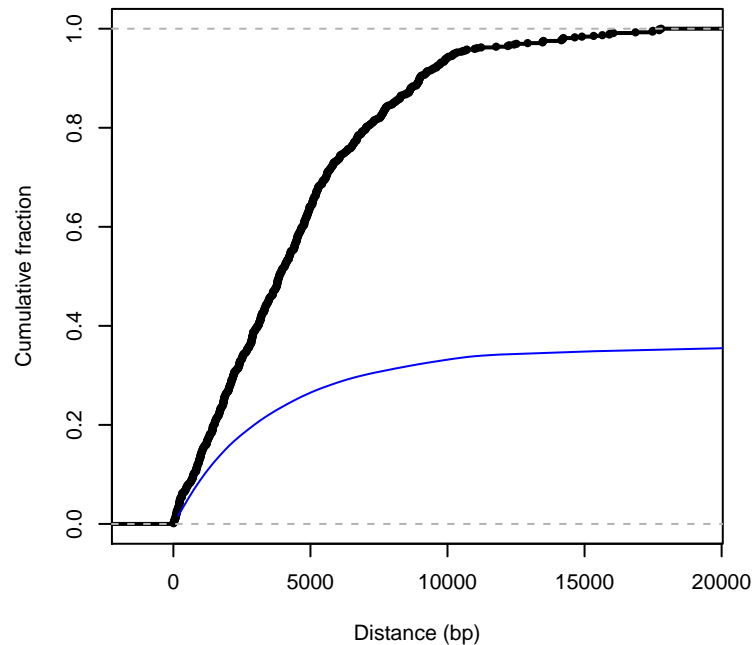
Query population : 579
Reference population : 172
Relative Ks p-value : 1.17376e-09
Relative ecdf deviation area : 0.041858
Relative ecdf area correlation : -0.167336
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.25
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.374886
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.940142



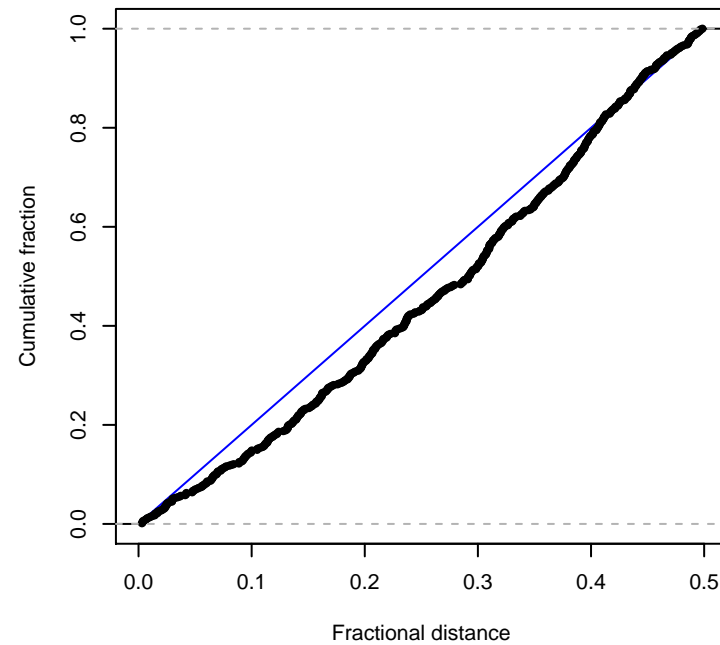
pcontig_035

Query population : 688
Reference population : 146
Relative Ks p-value : 3.27689e-05
Relative ecdf deviation area : 0.0222508
Relative ecdf area correlation : -0.08556
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.14
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.163722
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.856897

Absolute distances



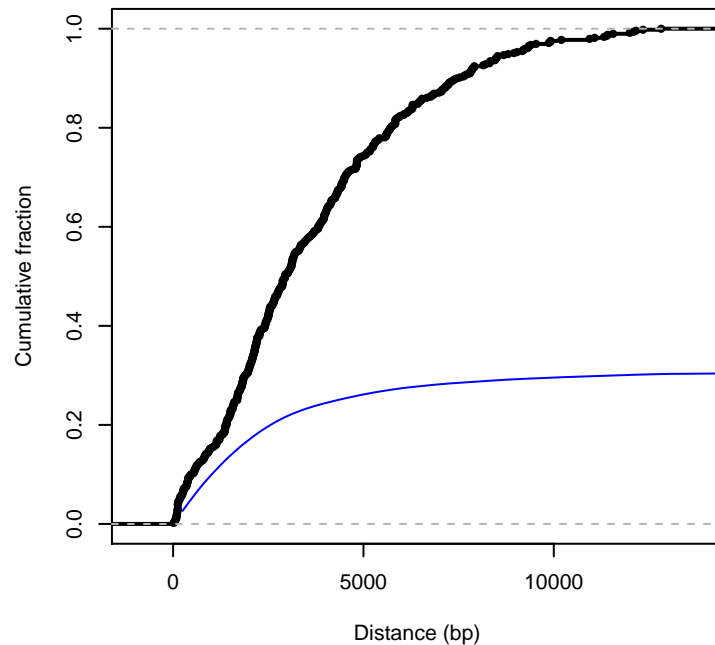
Relative distances



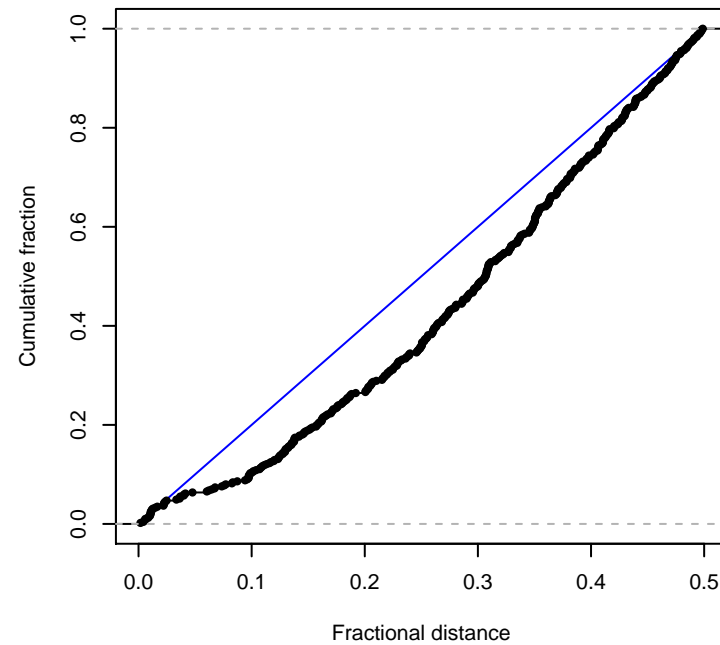
pcontig_036

Query population : 488
Reference population : 163
Relative Ks p-value : 1.35338e-09
Relative ecdf deviation area : 0.0398021
Relative ecdf area correlation : -0.158782
Relative ecdf deviation 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 : 0.0575483
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.2375

Absolute distances

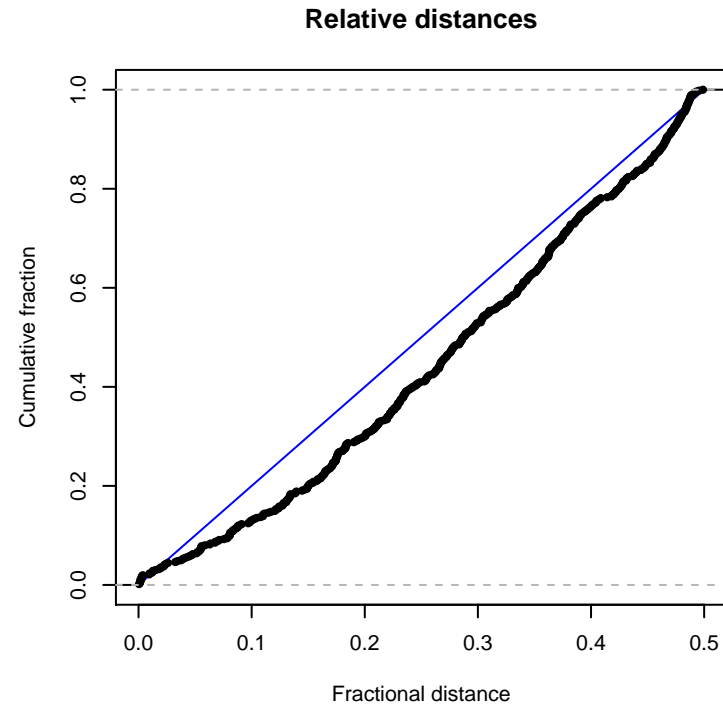
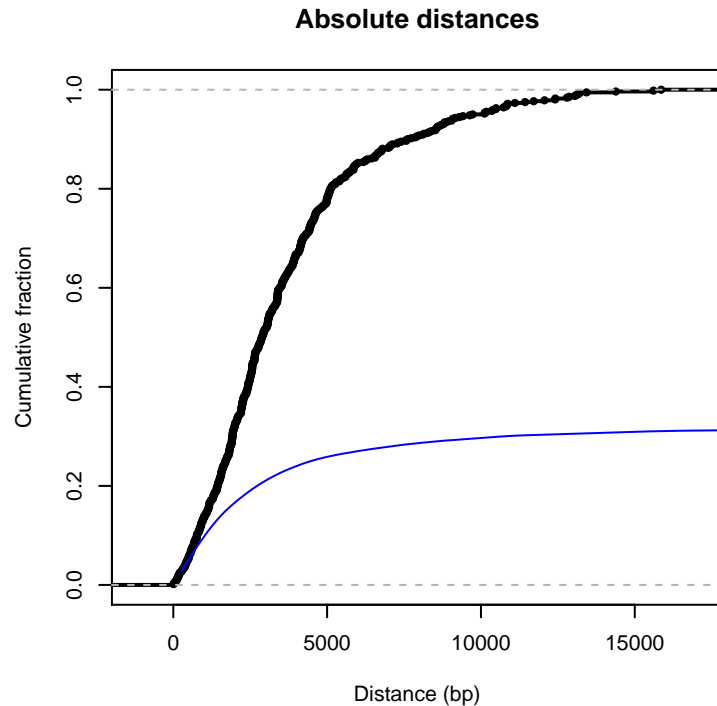


Relative distances



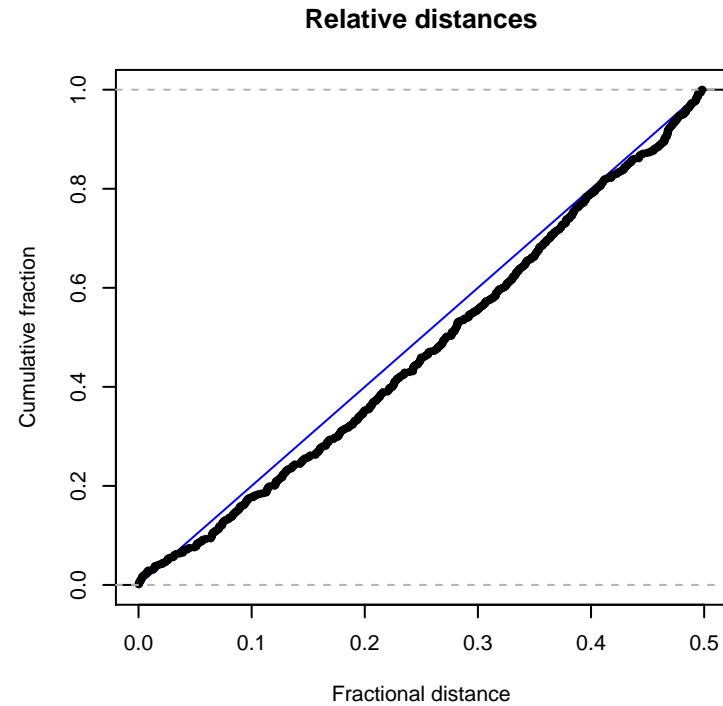
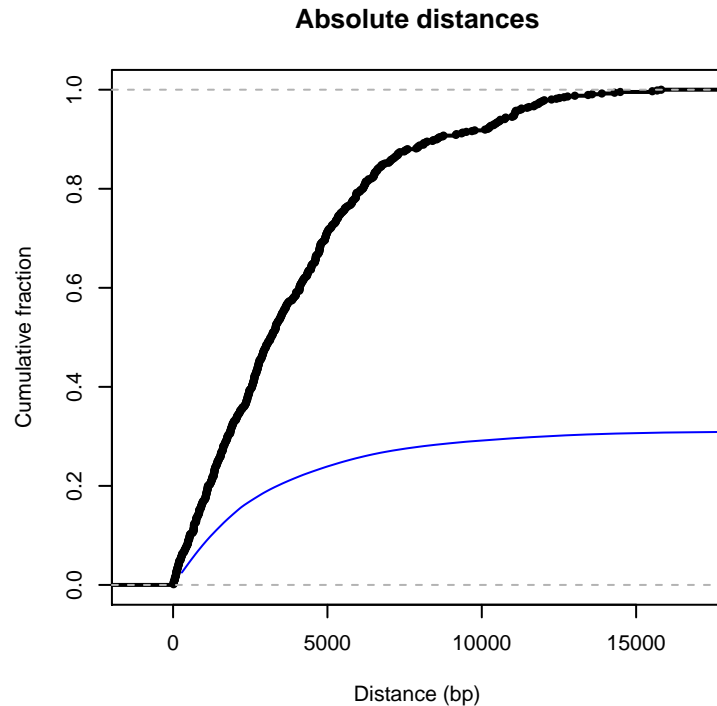
pcontig_037

Query population : 562
Reference population : 162
Relative Ks p-value : 3.67933e-06
Relative ecdf deviation area : 0.0311025
Relative ecdf area correlation : -0.123582
Relative ecdf deviation 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 : 0.000158237
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.52363



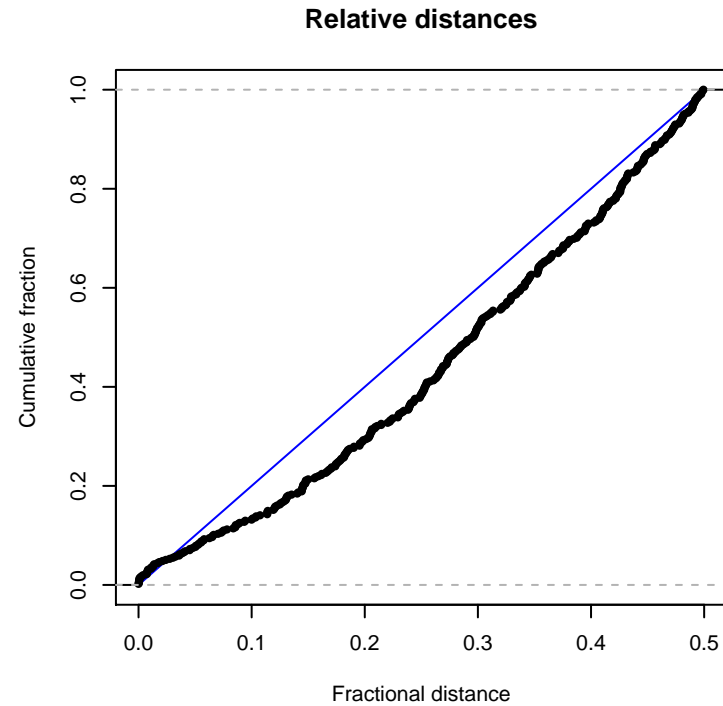
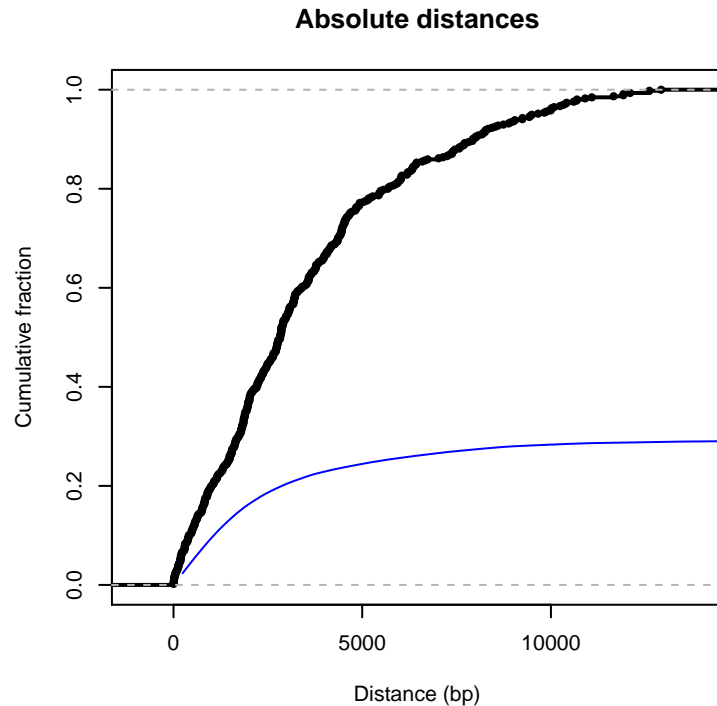
pcontig_039

Query population : 658
Reference population : 135
Relative Ks p-value : 0.030519
Relative ecdf deviation area : 0.0153055
Relative ecdf area correlation : -0.0602435
Relative ecdf deviation 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 : 2.35367e-13
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.0107



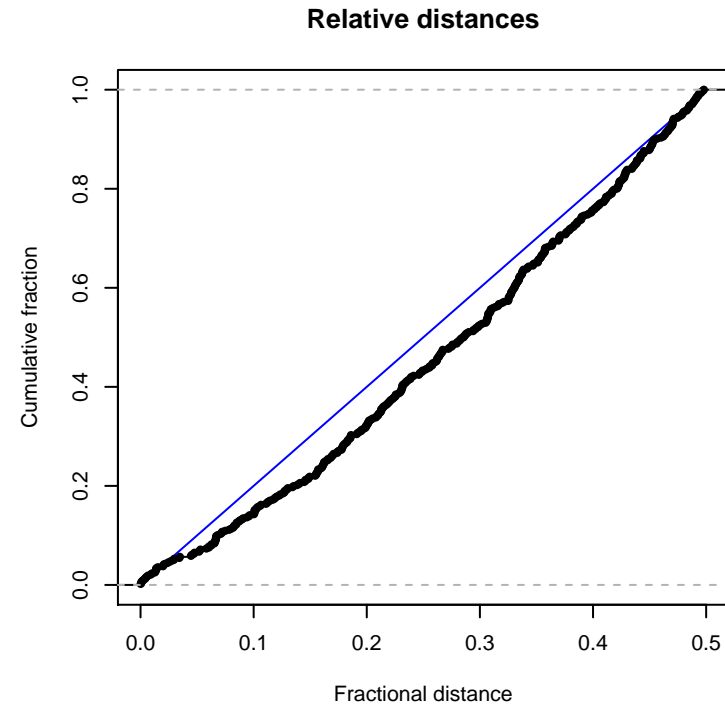
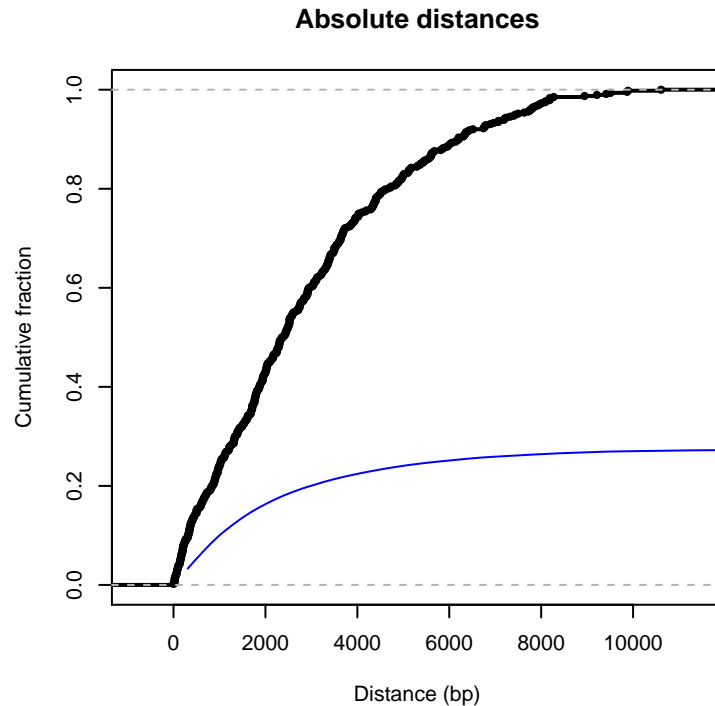
pcontig_040

Query population : 455
Reference population : 151
Relative Ks p-value : 1.38742e-06
Relative ecdf deviation area : 0.0337676
Relative ecdf area correlation : -0.133575
Relative ecdf deviation 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 : 0.00135396
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.48742



pcontig_041

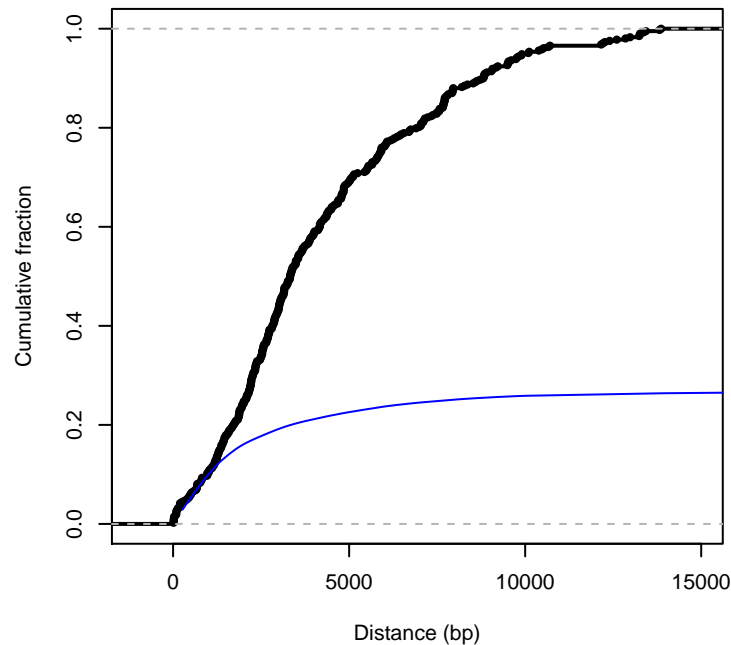
Query population : 476
Reference population : 164
Relative Ks p-value : 0.000868806
Relative ecdf deviation area : 0.024129
Relative ecdf area correlation : -0.0973759
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 9.07712e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.02129



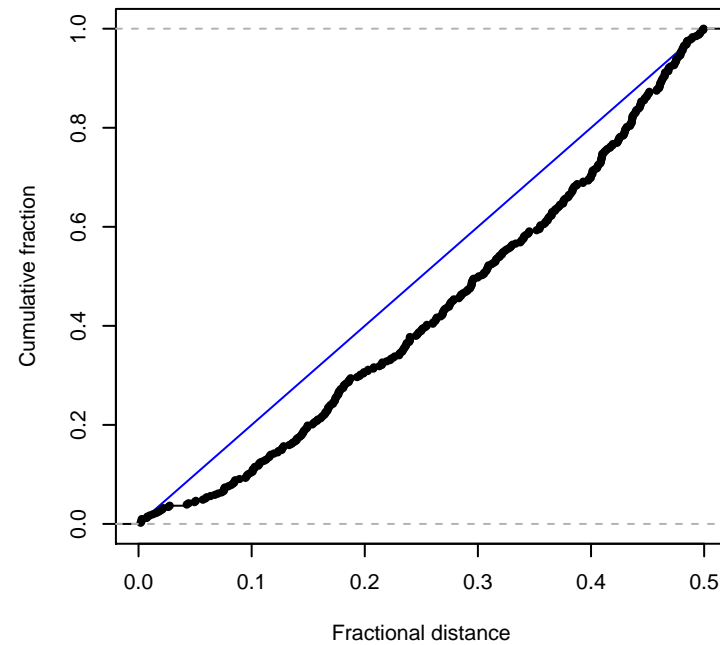
pcontig_042

Query population : 408
Reference population : 165
Relative Ks p-value : $9.50022e-06$
Relative ecdf deviation area : 0.0405636
Relative ecdf area correlation : -0.161783
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.13
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0416067
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.703355

Absolute distances

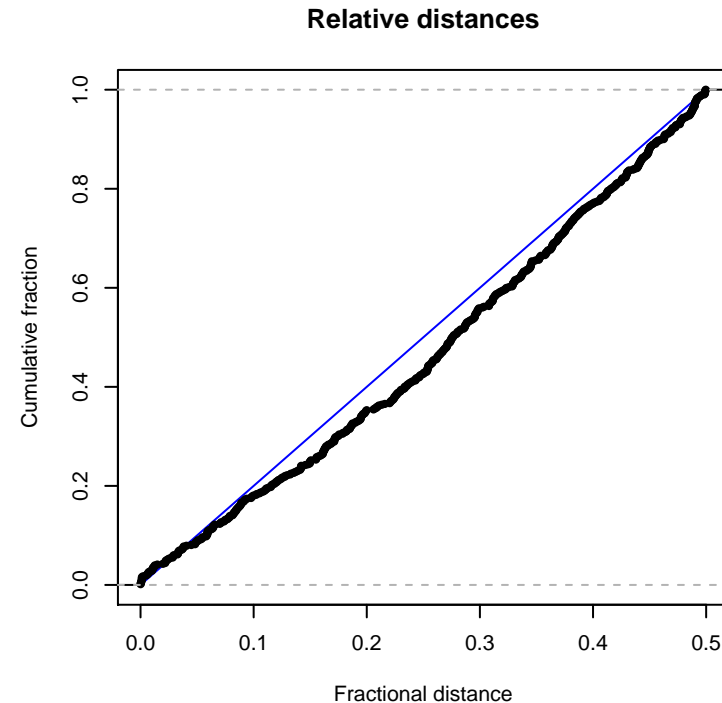
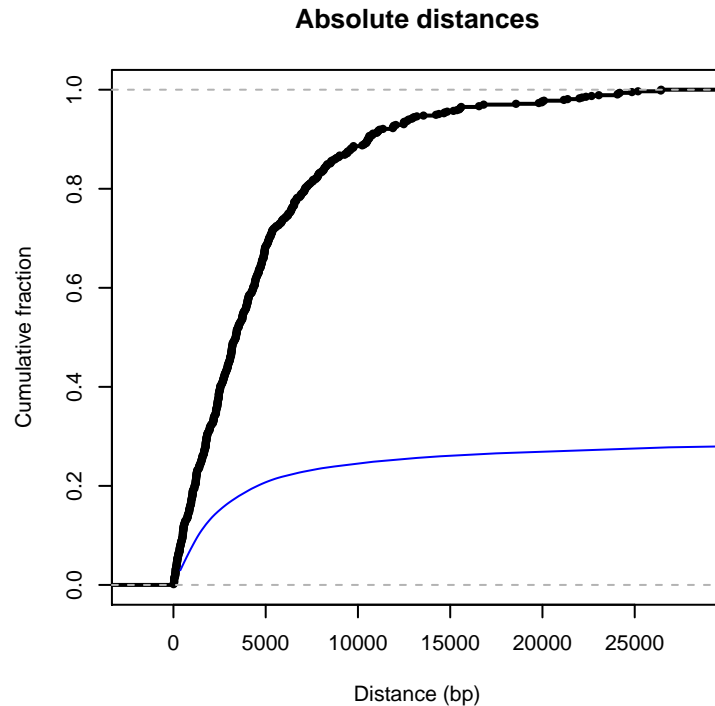


Relative distances



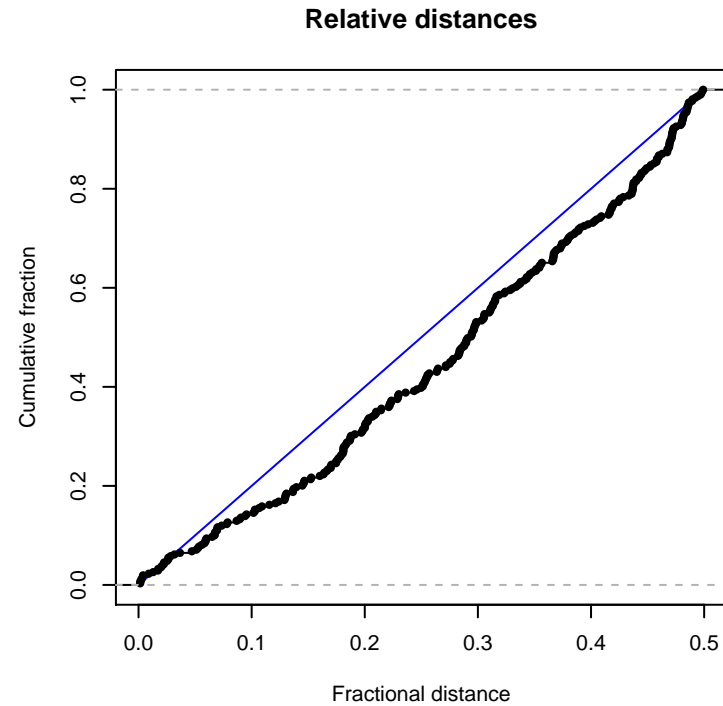
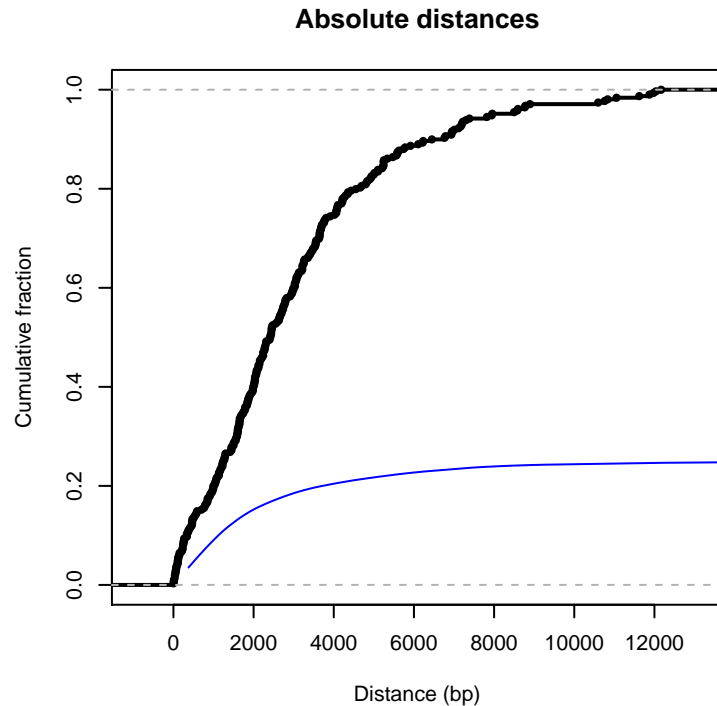
pcontig_043

Query population : 632
Reference population : 122
Relative Ks p-value : 0.00110839
Relative ecdf deviation area : 0.0184582
Relative ecdf area correlation : -0.0723385
Relative ecdf deviation 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 : 2.12672e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.85037



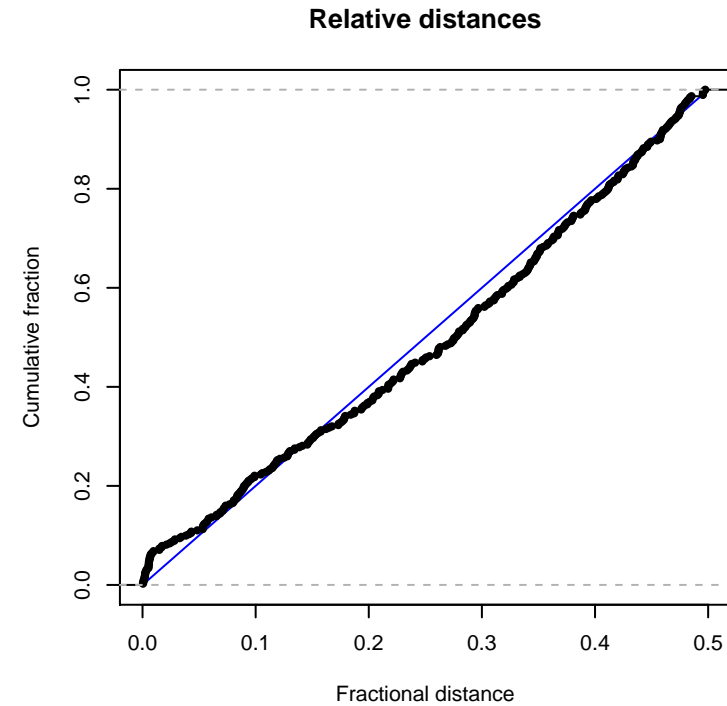
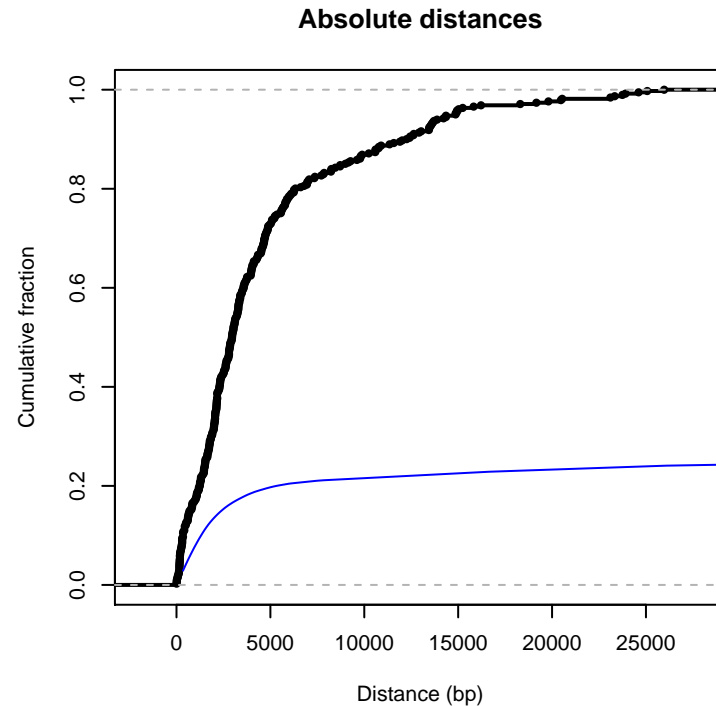
pcontig_044

Query population : 309
Reference population : 144
Relative Ks p-value : 0.00135964
Relative ecdf deviation area : 0.0312224
Relative ecdf area correlation : -0.12556
Relative ecdf deviation 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 : 0.00373991
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.53575



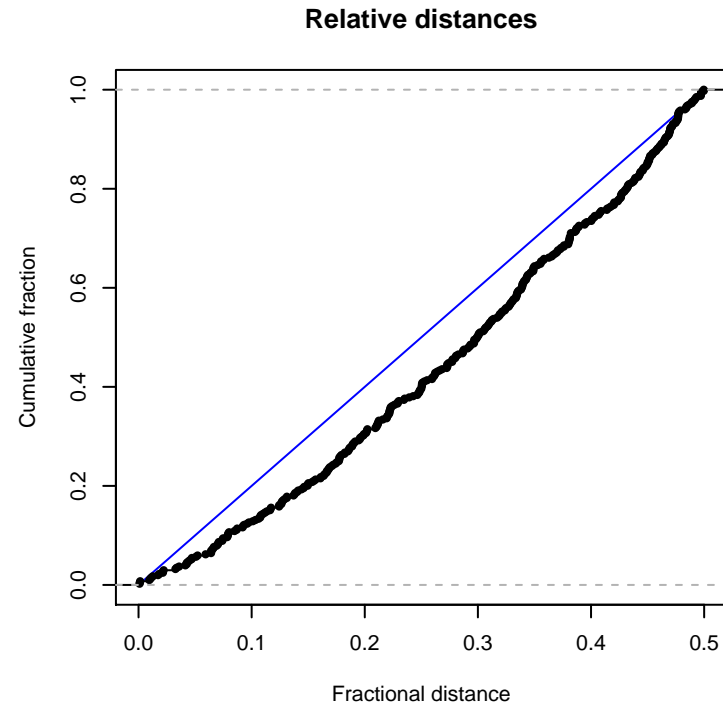
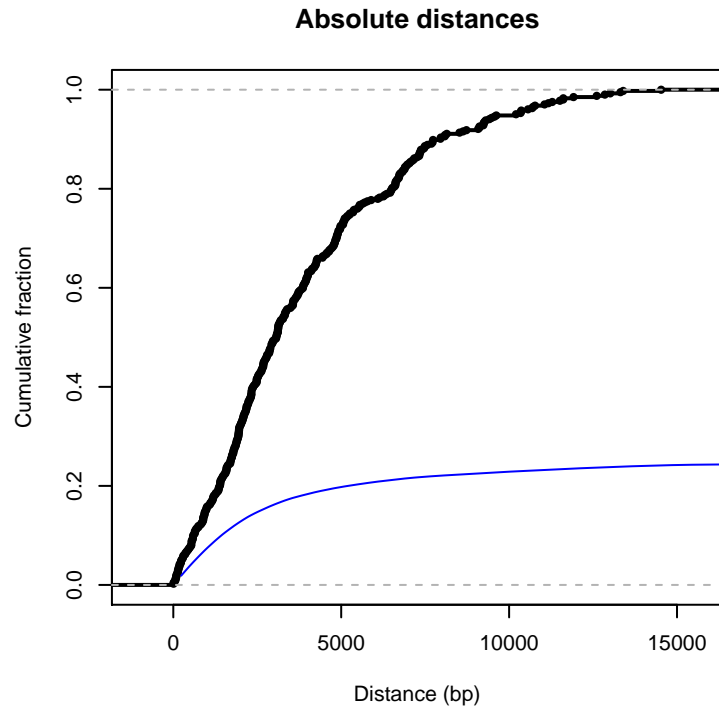
pcontig_045

Query population : 381
Reference population : 128
Relative Ks p-value : 0.134623
Relative ecdf deviation area : 0.0120993
Relative ecdf area correlation : -0.0282618
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 : 0.08
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0140603
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.40772



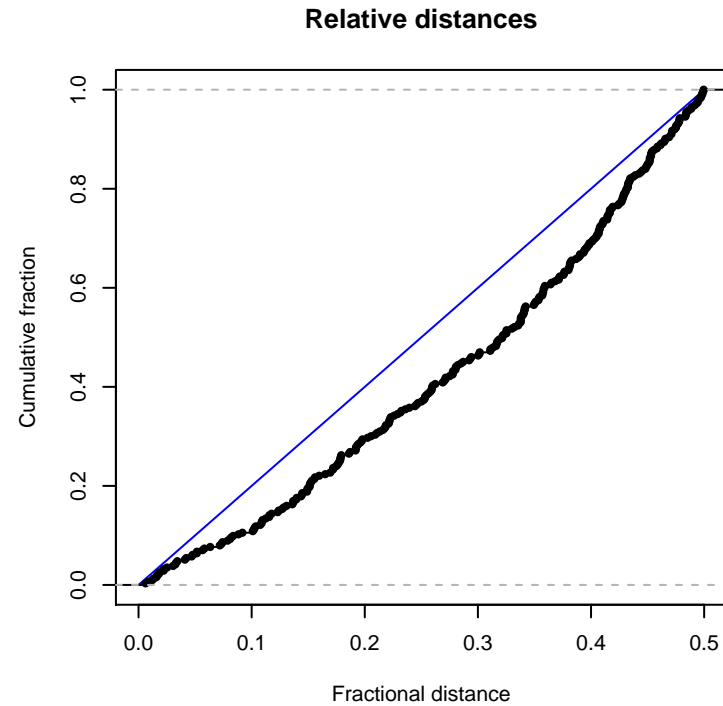
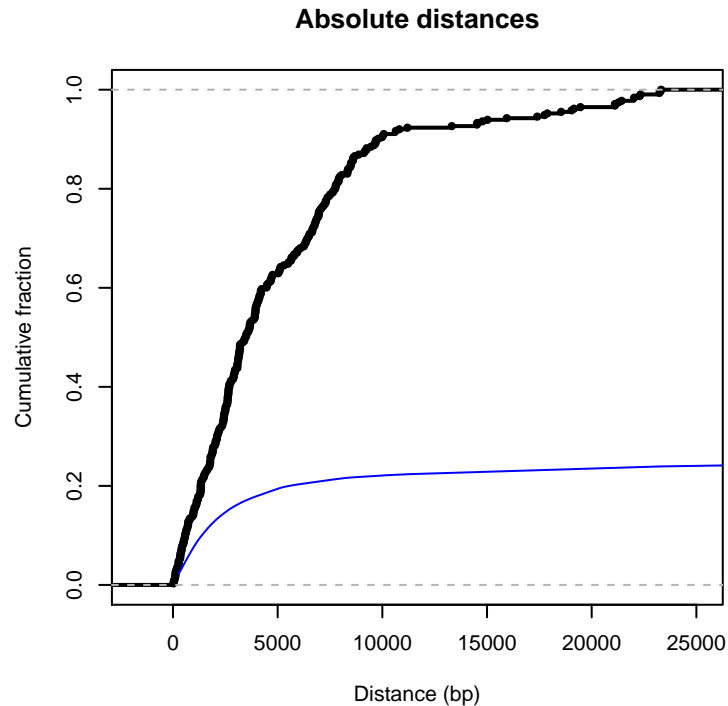
pcontig_046

Query population : 404
Reference population : 122
Relative Ks p-value : 8.45421e-05
Relative ecdf deviation area : 0.0352885
Relative ecdf area correlation : -0.140689
Relative ecdf deviation 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 : 0.0764432
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.27012



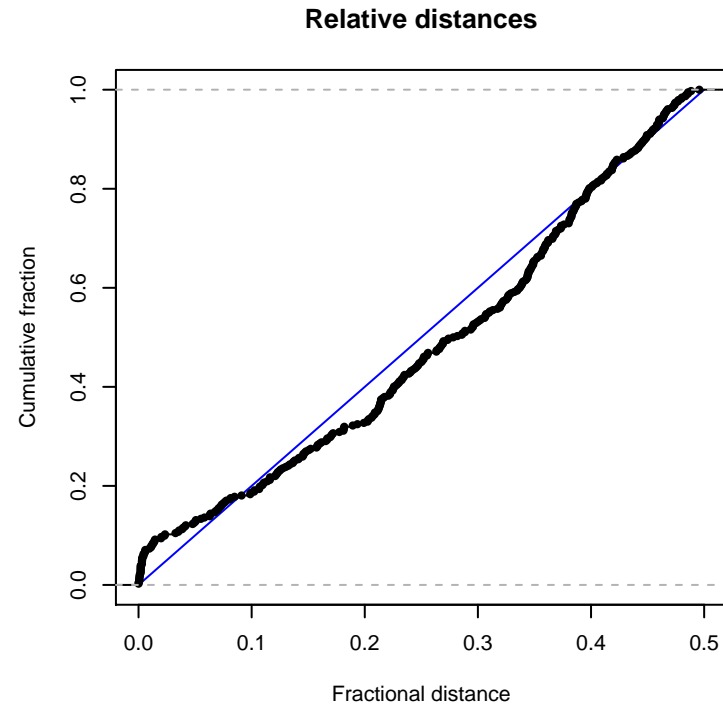
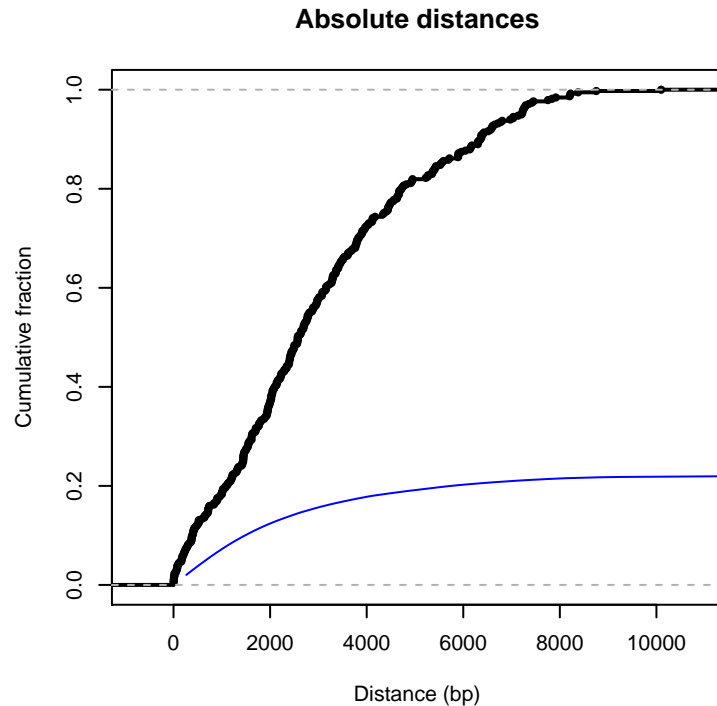
pcontig_047

Query population : 313
Reference population : 124
Relative Ks p-value : 9.46369e-07
Relative ecdf deviation area : 0.0452722
Relative ecdf area correlation : -0.180095
Relative ecdf deviation 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 : 0.174688
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.16759



pcontig_048

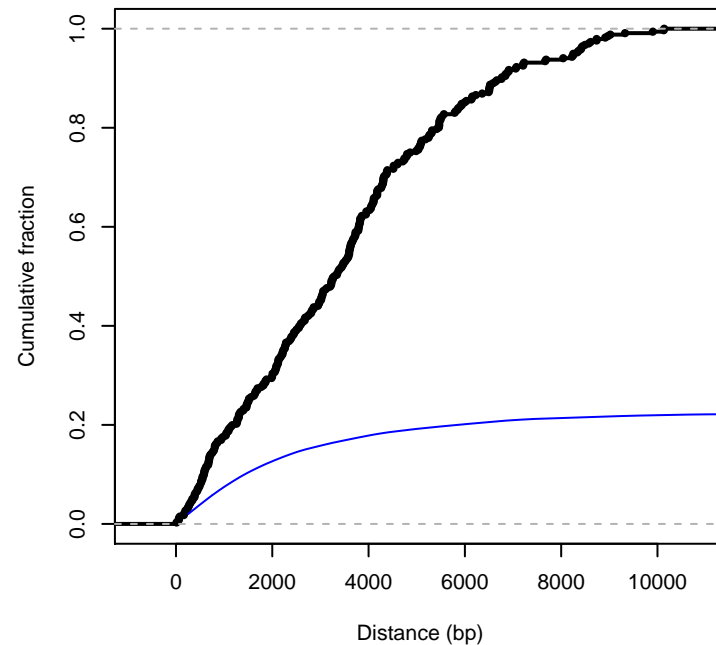
Query population : 382
Reference population : 118
Relative Ks p-value : 0.0126709
Relative ecdf deviation area : 0.0180532
Relative ecdf area correlation : -0.0424427
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 6.31534e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.98704



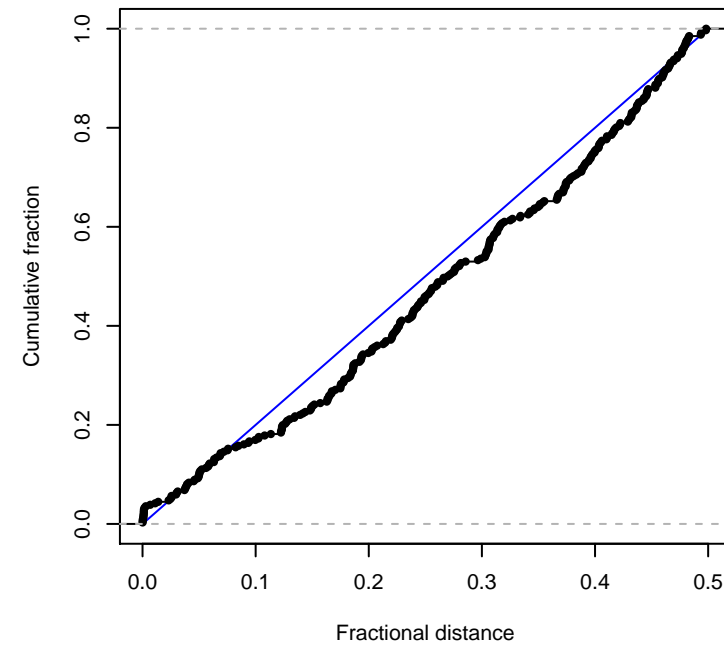
pcontig_049

Query population : 336
Reference population : 121
Relative Ks p-value : 0.0225403
Relative ecdf deviation area : 0.019602
Relative ecdf area correlation : -0.0743792
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 : 0.372155
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.03729

Absolute distances

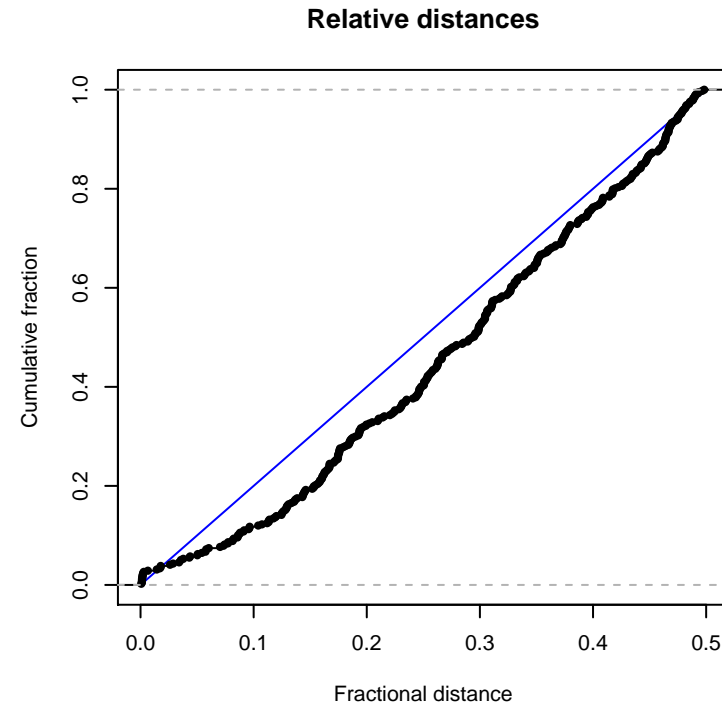
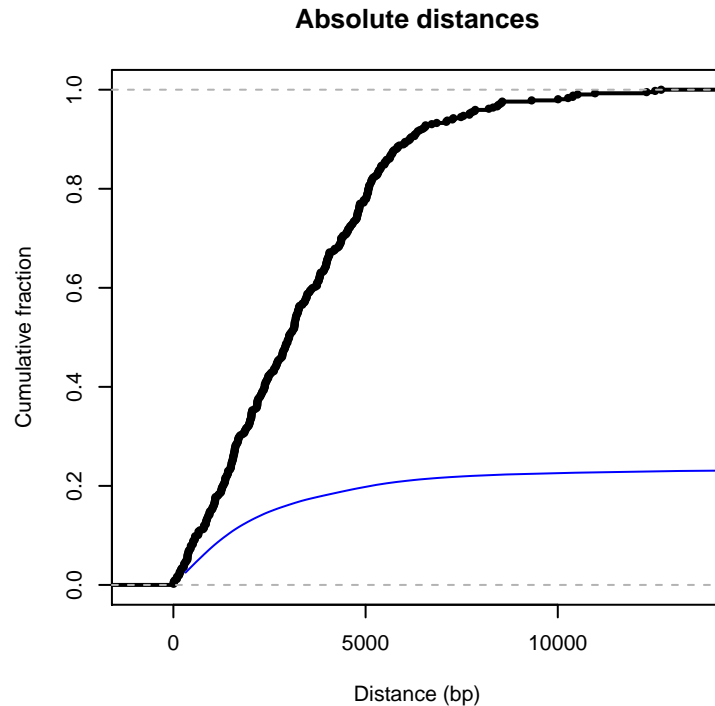


Relative distances



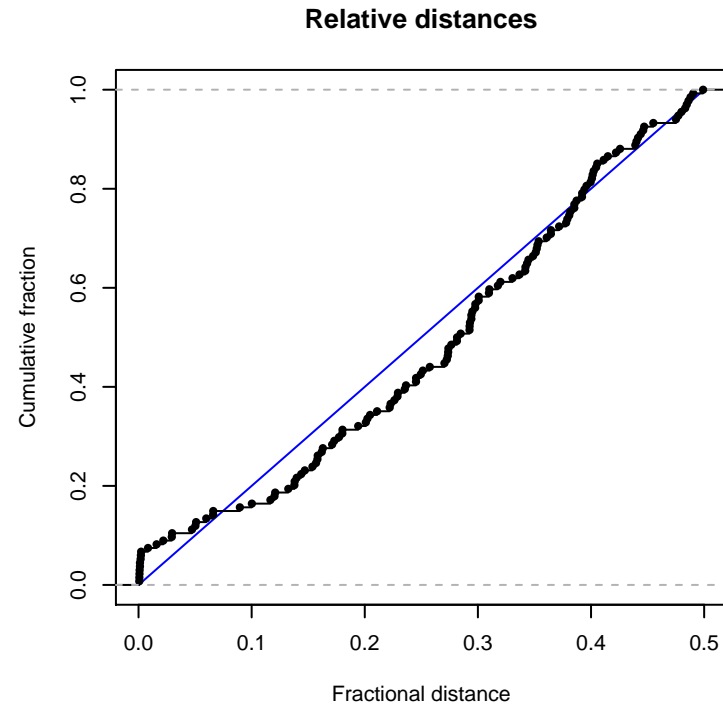
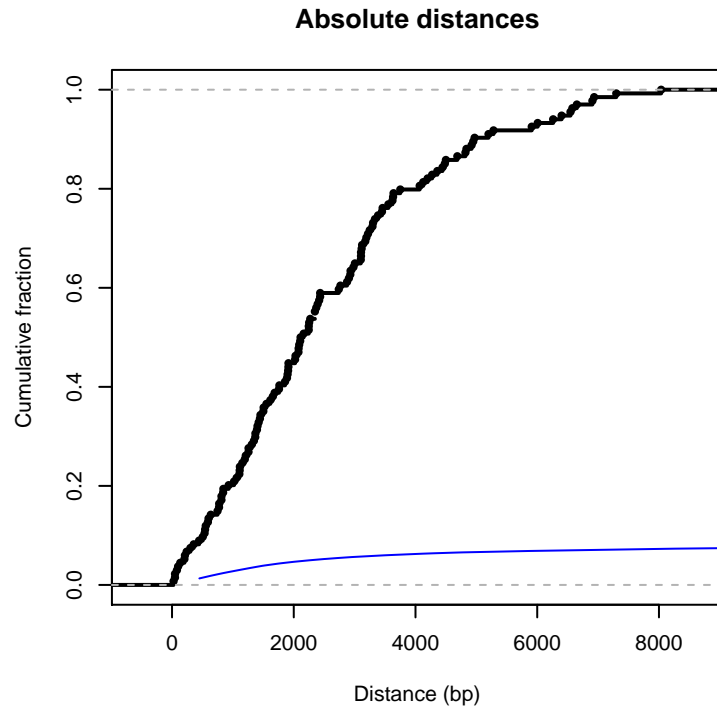
pcontig_050

Query population : 417
Reference population : 121
Relative Ks p-value : 5.84284e-05
Relative ecdf deviation area : 0.0305983
Relative ecdf area correlation : -0.120148
Relative ecdf deviation 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 : 0.41582
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.01593



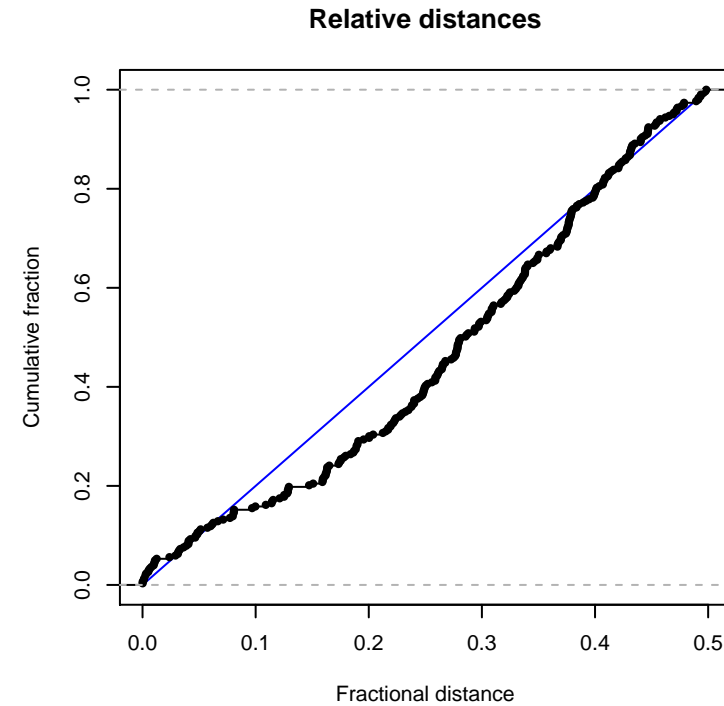
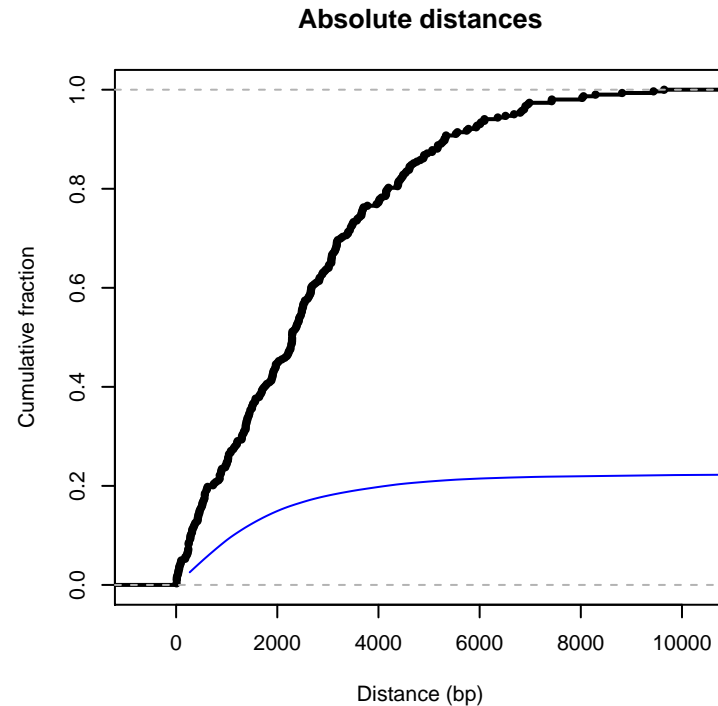
pcontig_051

Query population : 134
Reference population : 45
Relative Ks p-value : 0.133193
Relative ecdf deviation area : 0.0211927
Relative ecdf area correlation : -0.0543435
Relative ecdf deviation area p-value : 0.15
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.09969e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.59961



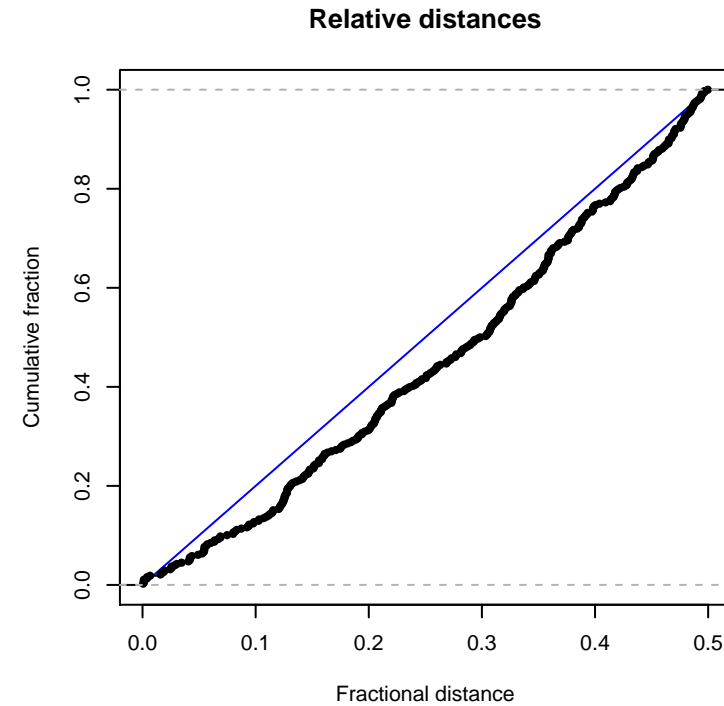
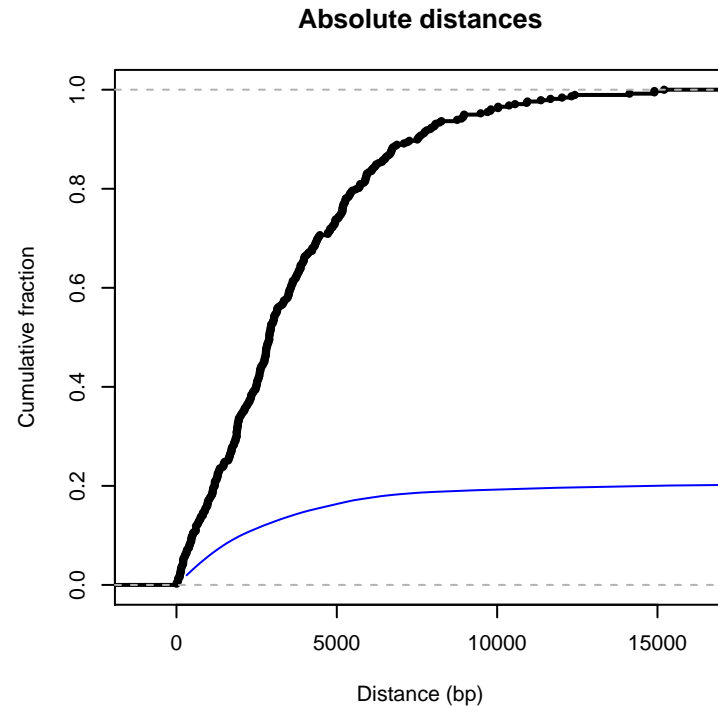
pcontig_052

Query population : 303
Reference population : 146
Relative Ks p-value : 0.000180065
Relative ecdf deviation area : 0.0248721
Relative ecdf area correlation : -0.0882369
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 : 5.49474e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.05738



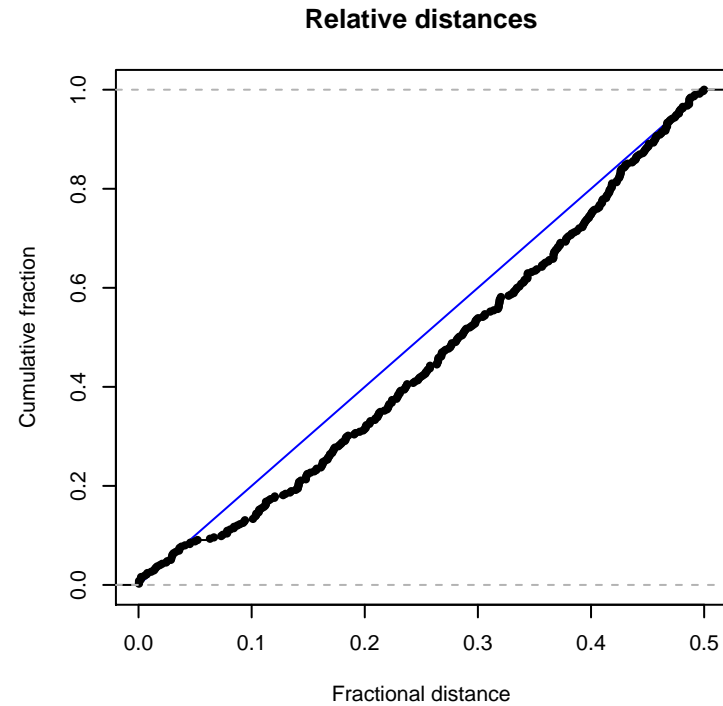
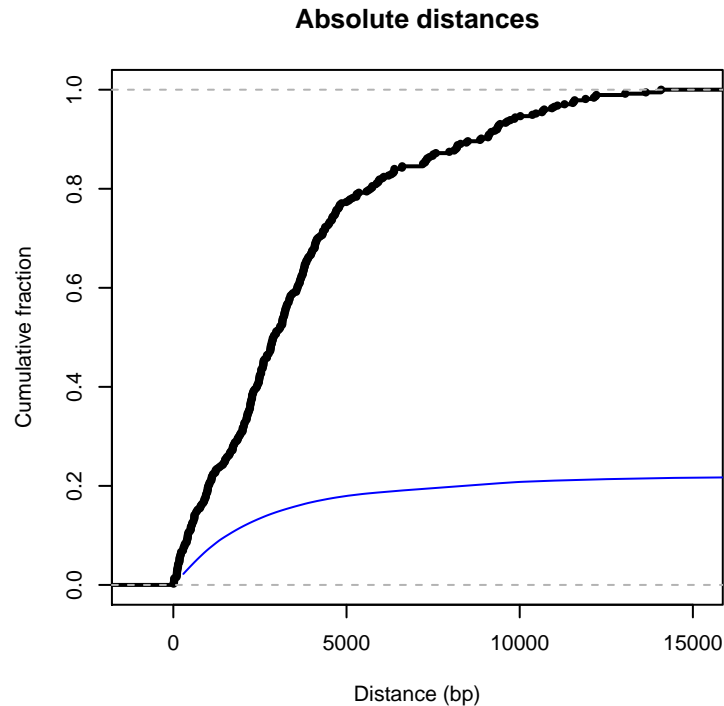
pcontig_054

Query population : 378
Reference population : 95
Relative Ks p-value : 0.000366223
Relative ecdf deviation area : 0.029107
Relative ecdf area correlation : -0.116507
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.56426e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.97639



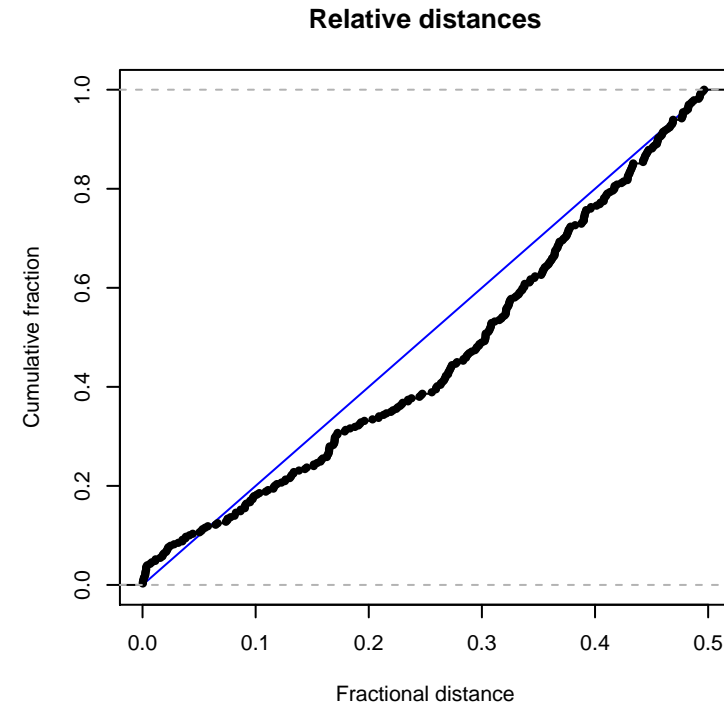
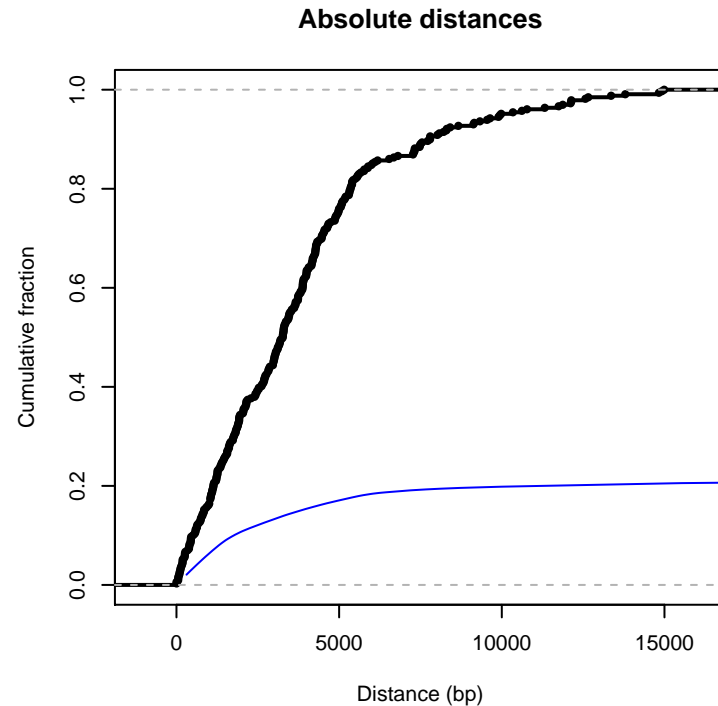
pcontig_055

Query population : 375
Reference population : 118
Relative Ks p-value : 0.00486144
Relative ecdf deviation area : 0.025936
Relative ecdf area correlation : -0.103394
Relative ecdf deviation 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 : 0.00014576
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.76596



pcontig_056

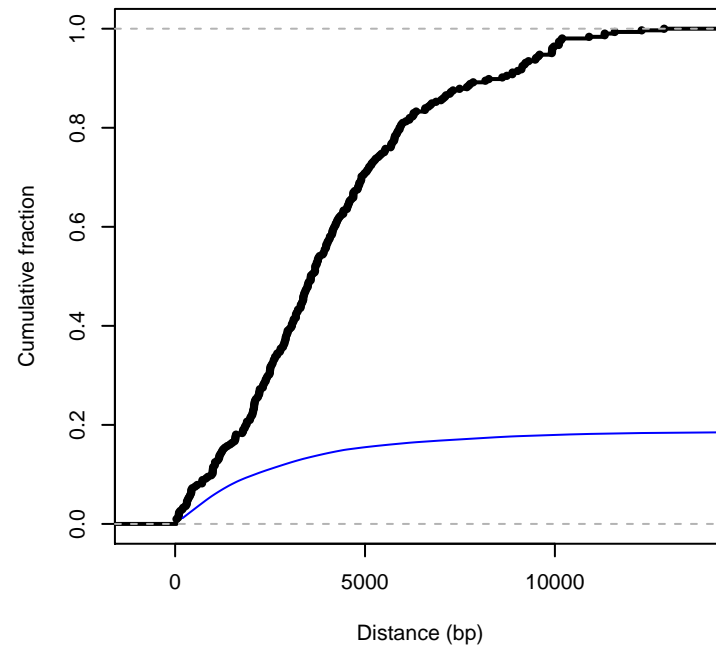
Query population : 329
Reference population : 103
Relative Ks p-value : 3.1618×10^{-5}
Relative ecdf deviation area : 0.0260363
Relative ecdf area correlation : -0.0945389
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
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 : 3.33275



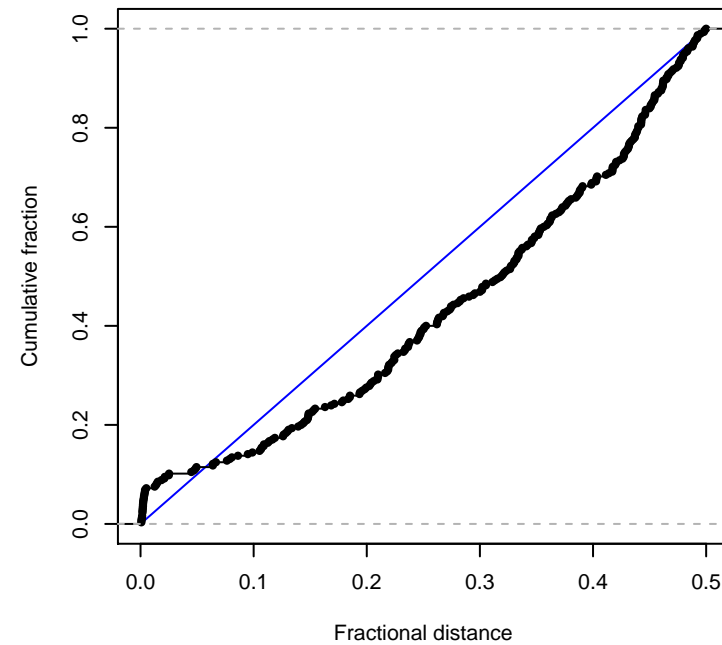
pcontig_057

Query population : 305
Reference population : 92
Relative Ks p-value : 9.49118e-06
Relative ecdf deviation area : 0.0421005
Relative ecdf area correlation : -0.152898
Relative ecdf deviation 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 : 0.264473
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.11569

Absolute distances

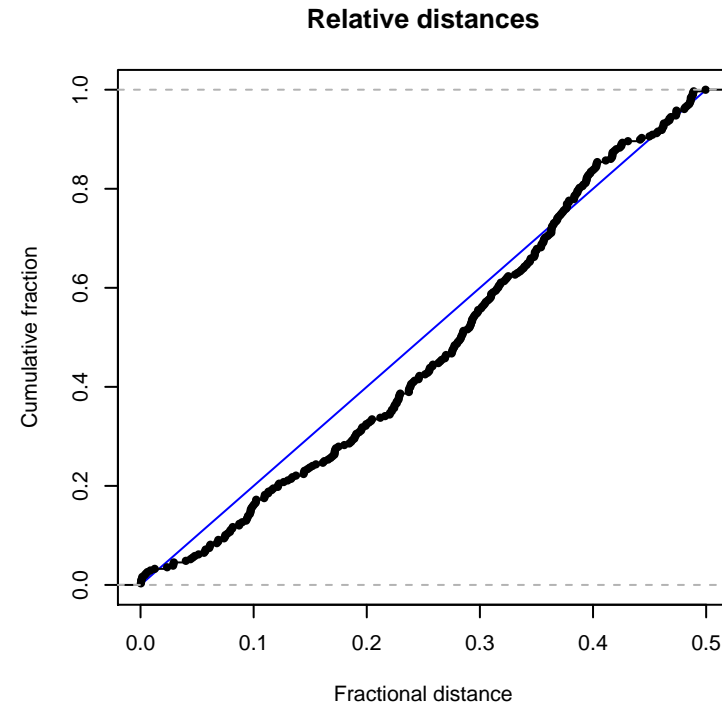
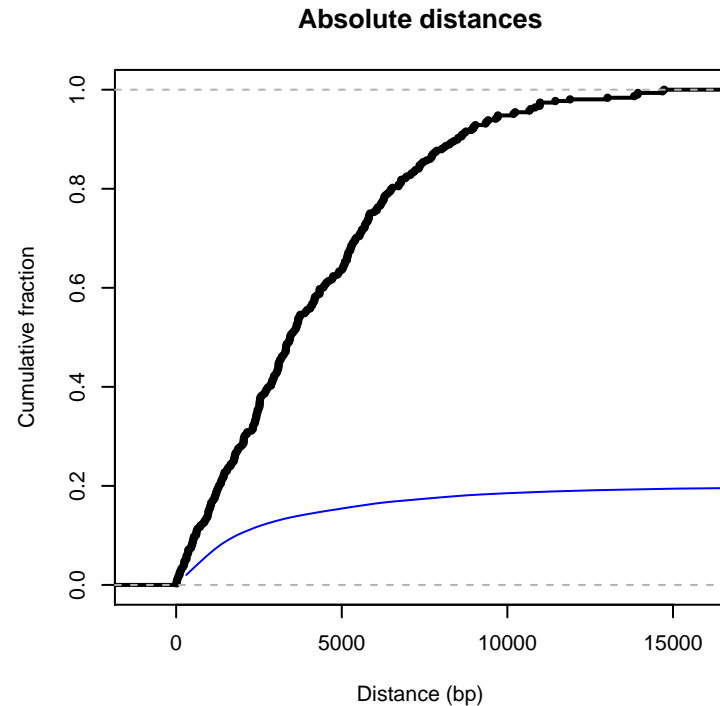


Relative distances



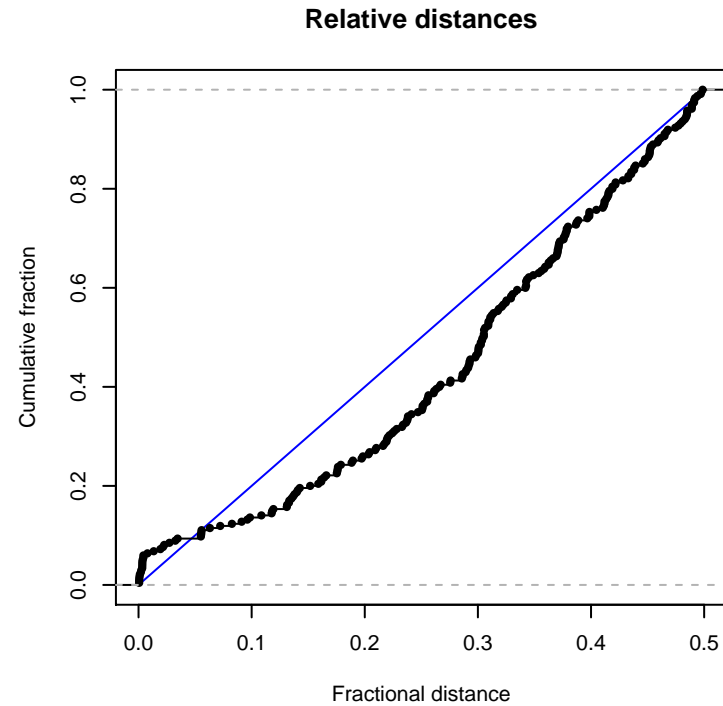
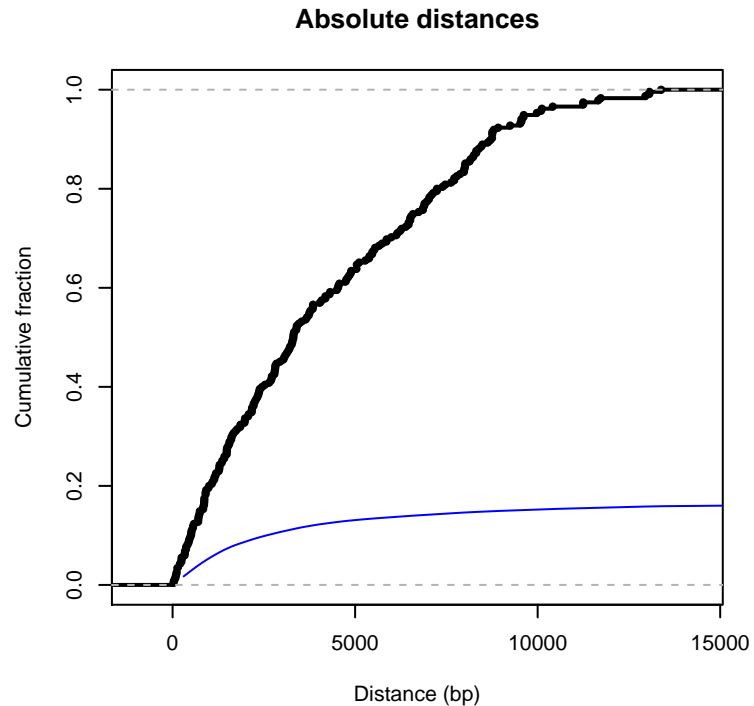
pcontig_058

Query population : 308
Reference population : 101
Relative Ks p-value : 0.00444635
Relative ecdf deviation area : 0.021774
Relative ecdf area correlation : -0.0679199
Relative ecdf deviation 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 : 0.0349368
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.42806



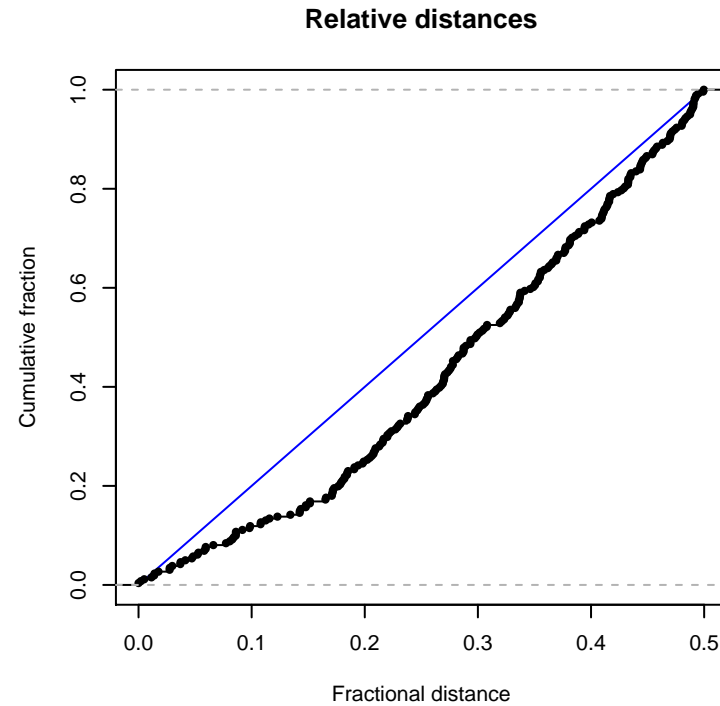
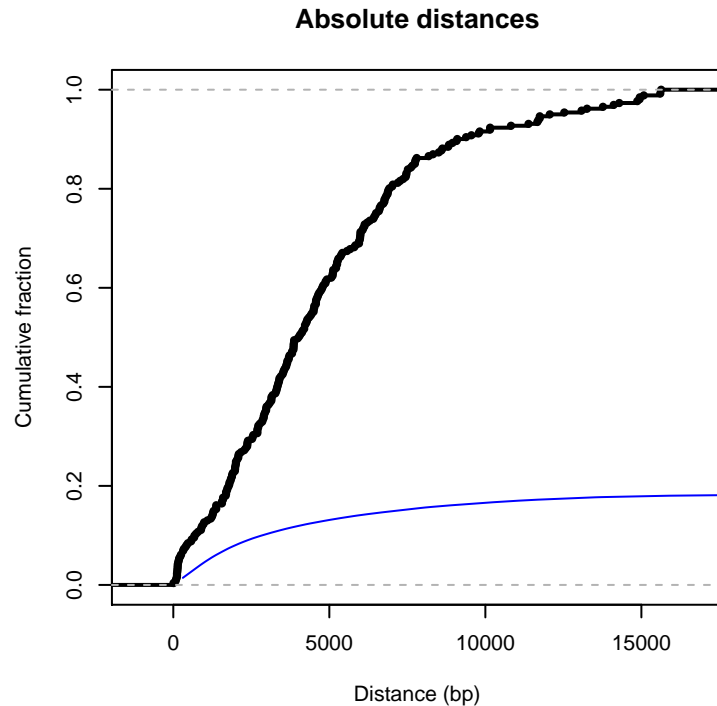
pcontig_059

Query population : 235
Reference population : 88
Relative Ks p-value : 1.42485e-05
Relative ecdf deviation area : 0.0385732
Relative ecdf area correlation : -0.143259
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000640769
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.95726



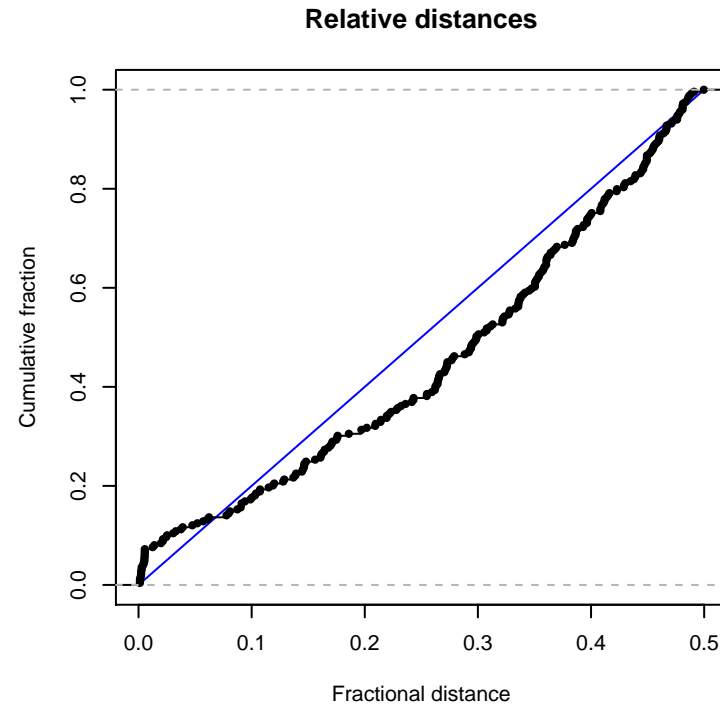
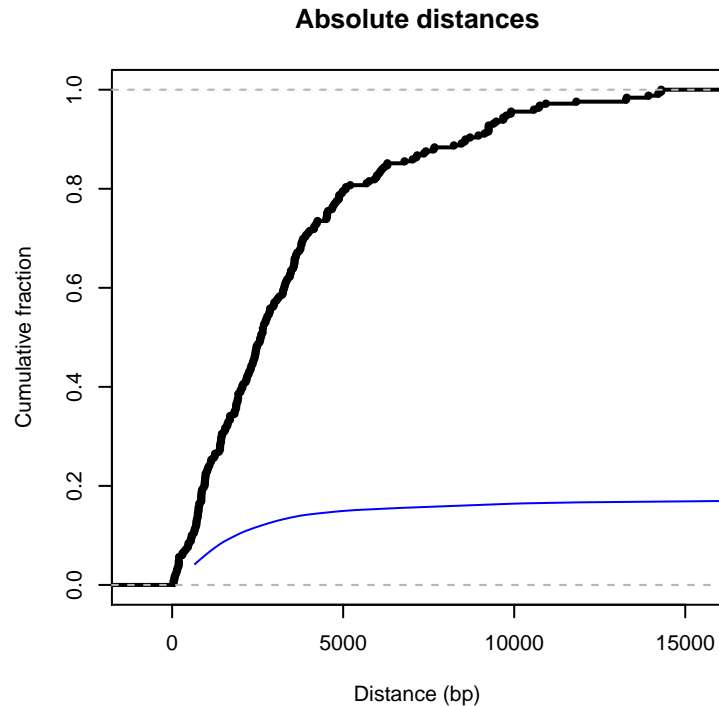
pcontig_060

Query population : 261
Reference population : 72
Relative Ks p-value : 1.25546e-06
Relative ecdf deviation area : 0.0433348
Relative ecdf area correlation : -0.174507
Relative ecdf deviation 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 : 0.00391528
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.76065



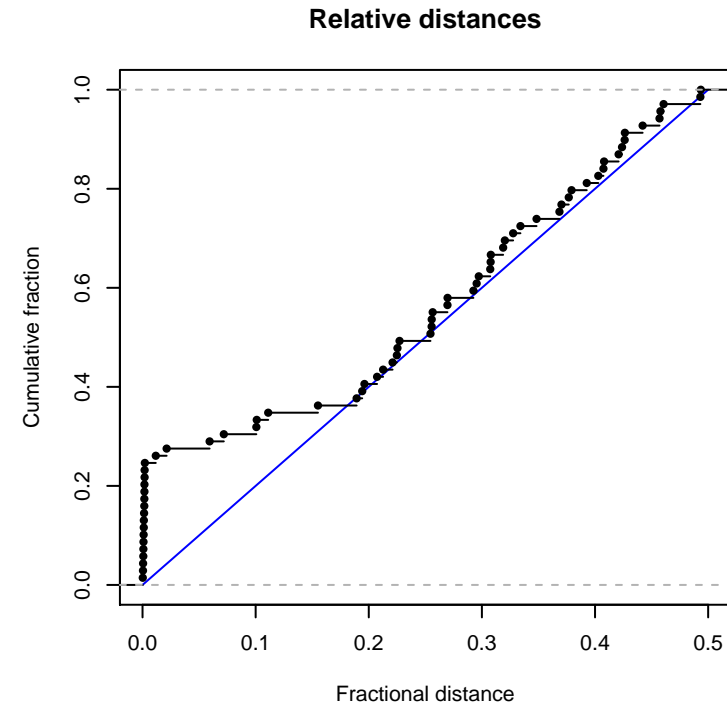
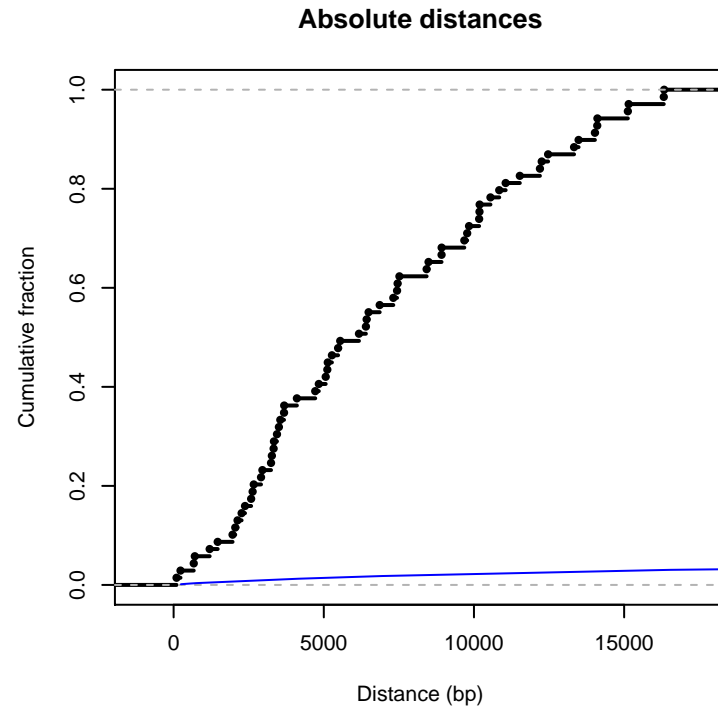
pcontig_062

Query population : 249
Reference population : 97
Relative Ks p-value : 0.000257353
Relative ecdf deviation area : 0.0310145
Relative ecdf area correlation : -0.105172
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.14
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0019143
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.78594



pcontig_063

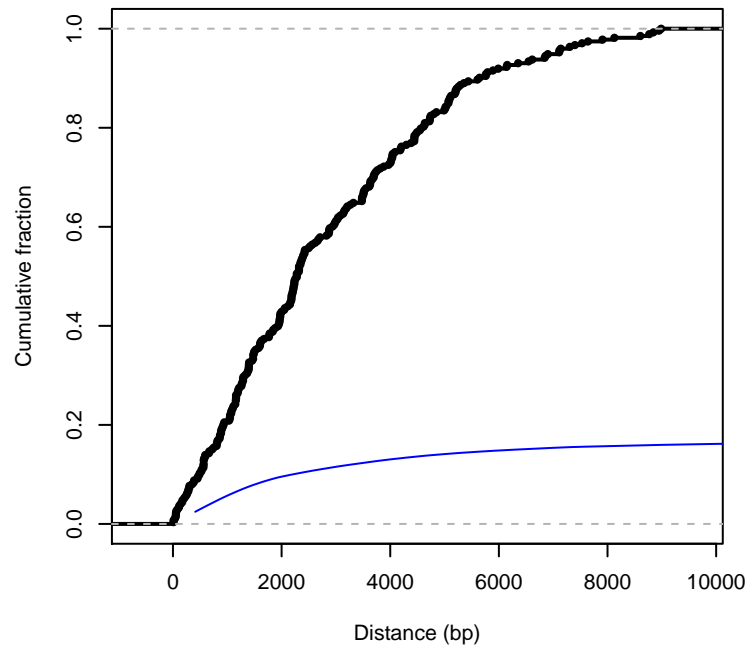
Query population : 69
Reference population : 9
Relative Ks p-value : 0.000474267
Relative ecdf deviation area : 0.0312248
Relative ecdf area correlation : 0.120225
Relative ecdf deviation area p-value : 0.04
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.73315e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.6607



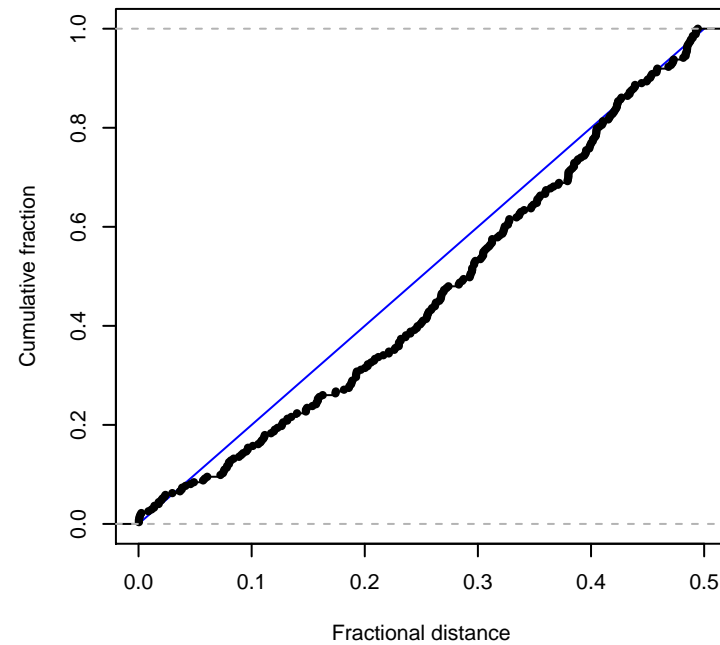
pcontig_064

Query population : 273
Reference population : 92
Relative Ks p-value : 0.00503004
Relative ecdf deviation area : 0.0240846
Relative ecdf area correlation : -0.0939065
Relative ecdf deviation 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 : 1.03916e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.2528

Absolute distances

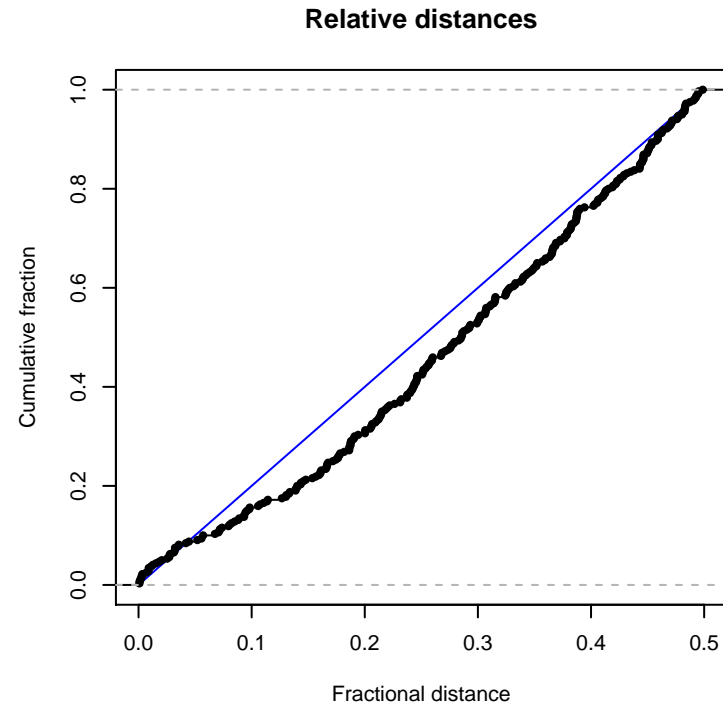
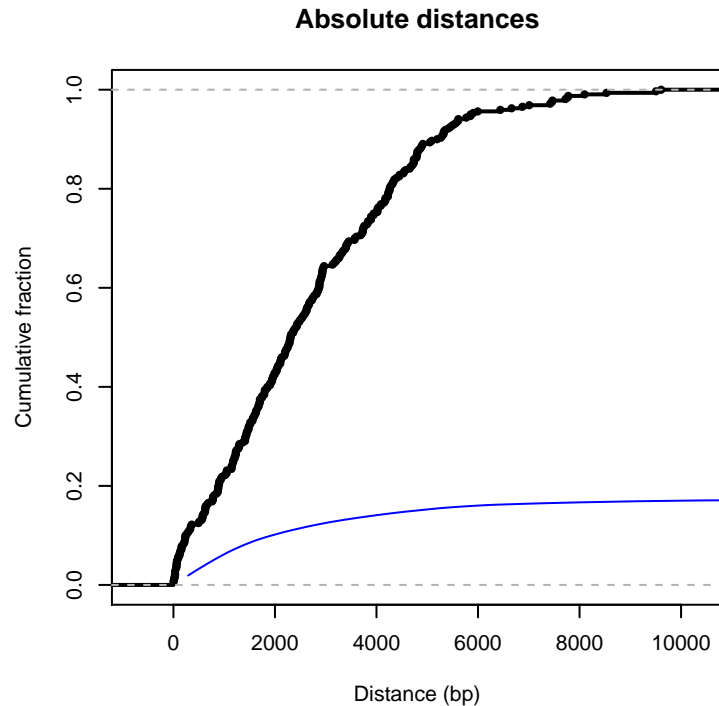


Relative distances



pcontig_065

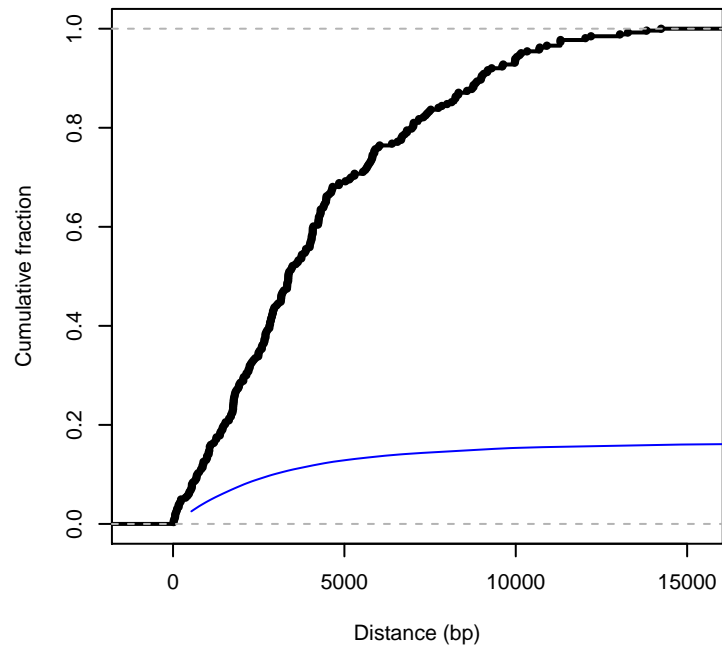
Query population : 320
Reference population : 101
Relative Ks p-value : 0.00206699
Relative ecdf deviation area : 0.0259971
Relative ecdf area correlation : -0.101183
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.86418e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.47867



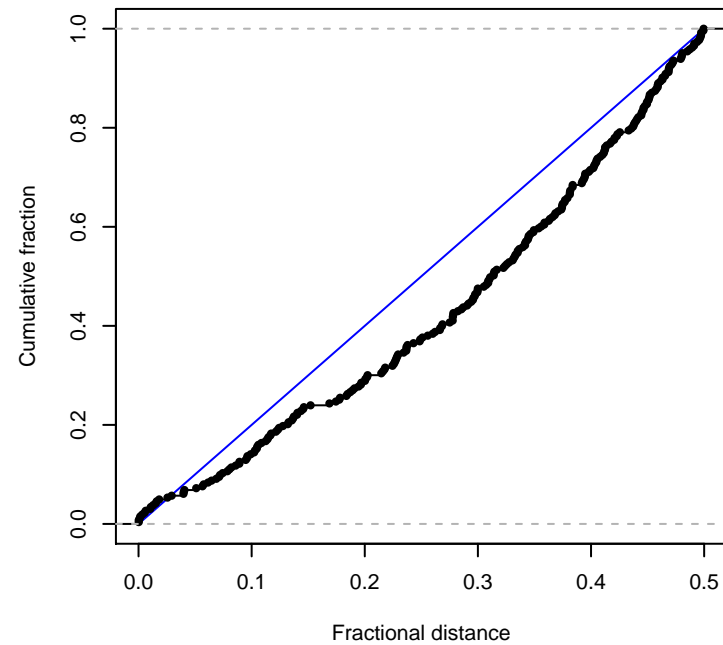
pcontig_066

Query population : 263
Reference population : 73
Relative Ks p-value : 1.8286e-05
Relative ecdf deviation area : 0.0398479
Relative ecdf area correlation : -0.157281
Relative ecdf deviation 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 : 0.00973523
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.77948

Absolute distances

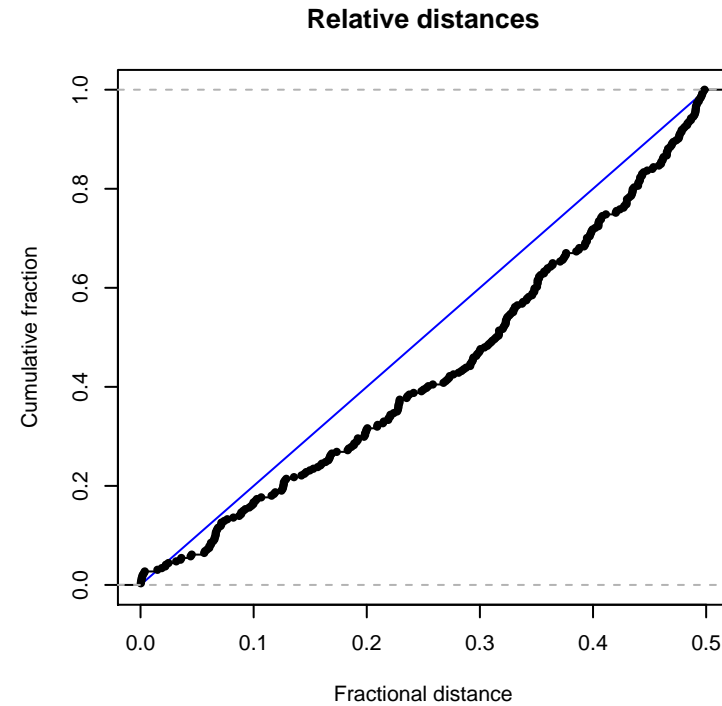
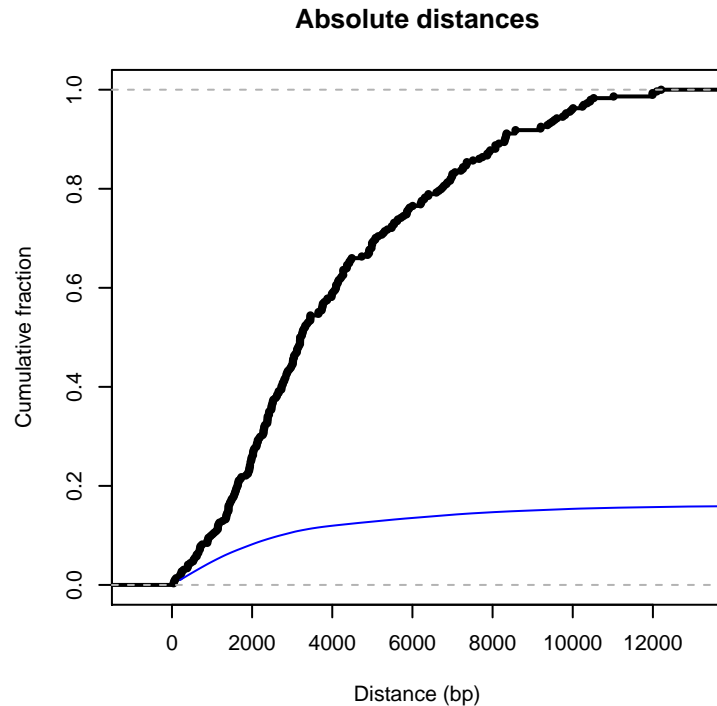


Relative distances



pcontig_067

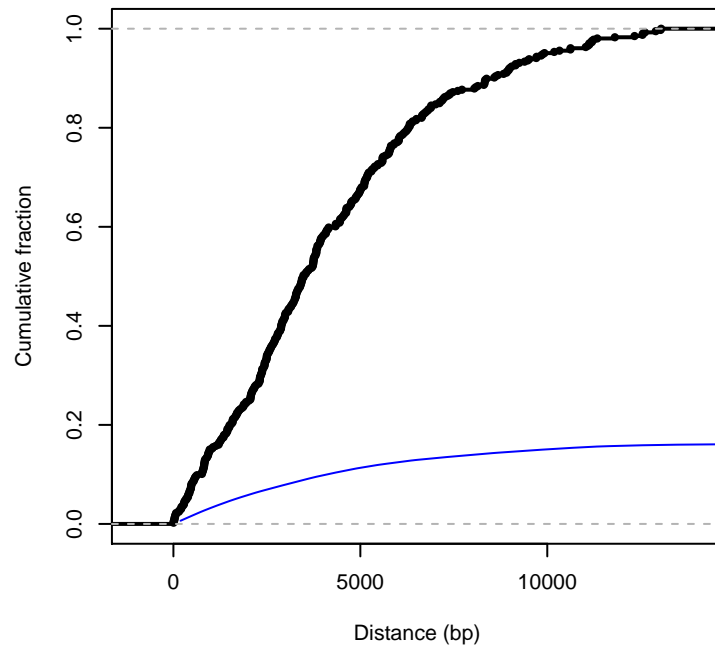
Query population : 294
Reference population : 76
Relative Ks p-value : 1.00617e-05
Relative ecdf deviation area : 0.0371487
Relative ecdf area correlation : -0.147166
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.197181
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.19695



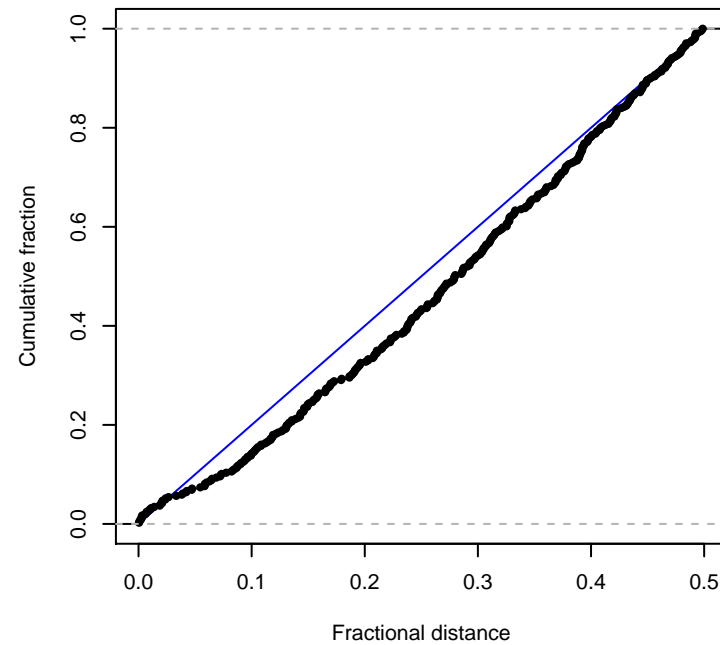
pcontig_068

Query population : 406
Reference population : 52
Relative Ks p-value : 0.0056537
Relative ecdf deviation area : 0.0219025
Relative ecdf area correlation : -0.0865175
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.71251e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.275

Absolute distances

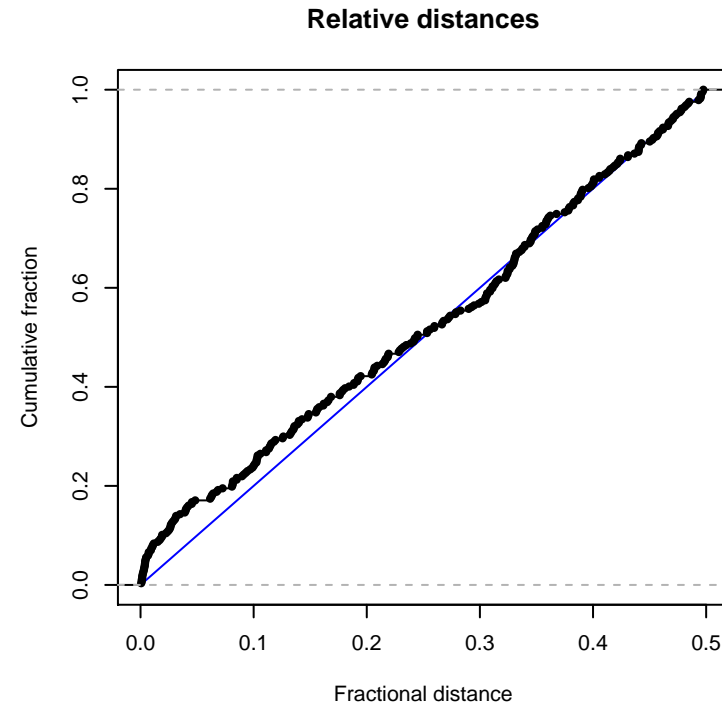
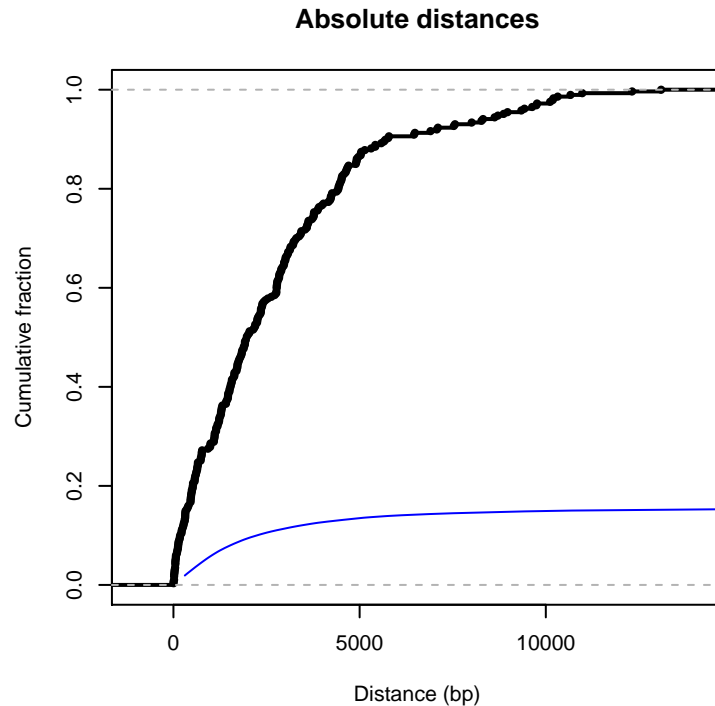


Relative distances



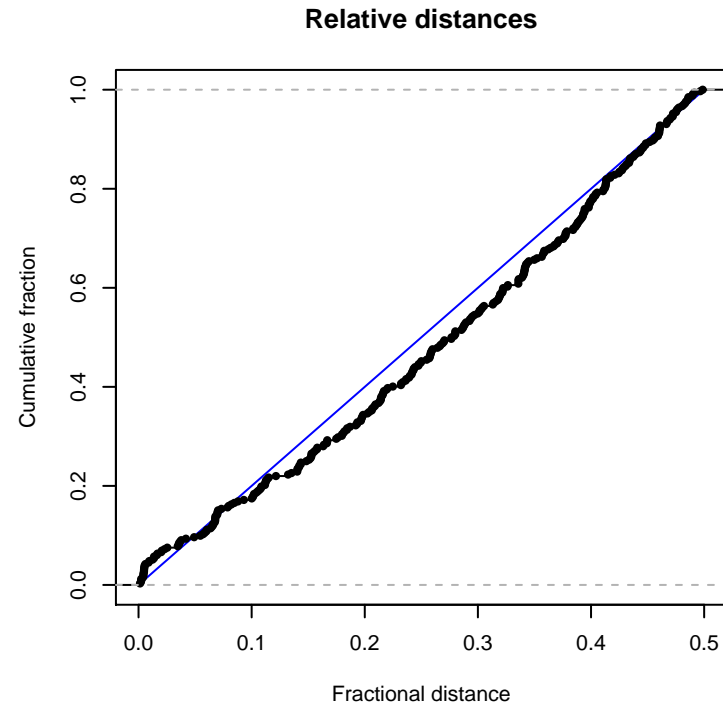
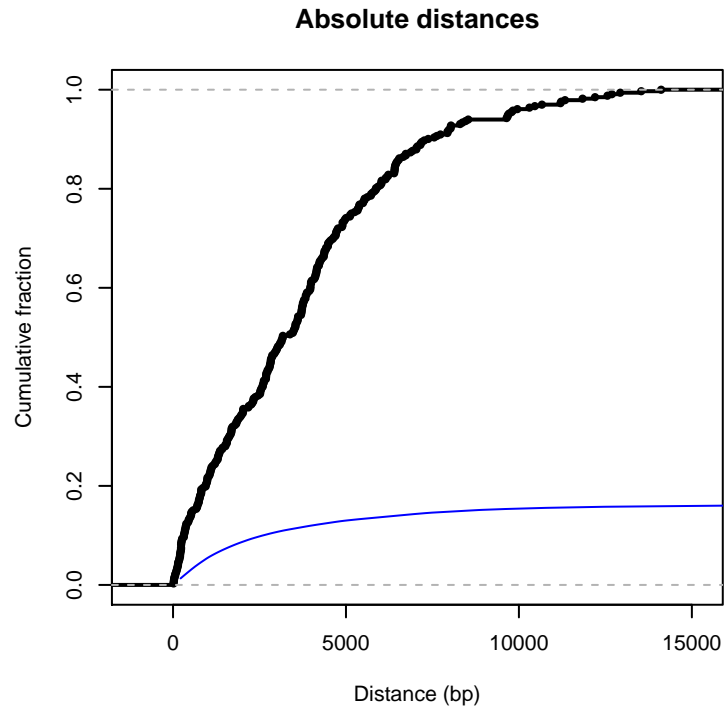
pcontig_069

Query population : 287
Reference population : 96
Relative Ks p-value : 0.0703029
Relative ecdf deviation area : 0.0127525
Relative ecdf area correlation : 0.0378626
Relative ecdf deviation area p-value : 0.18
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.20098



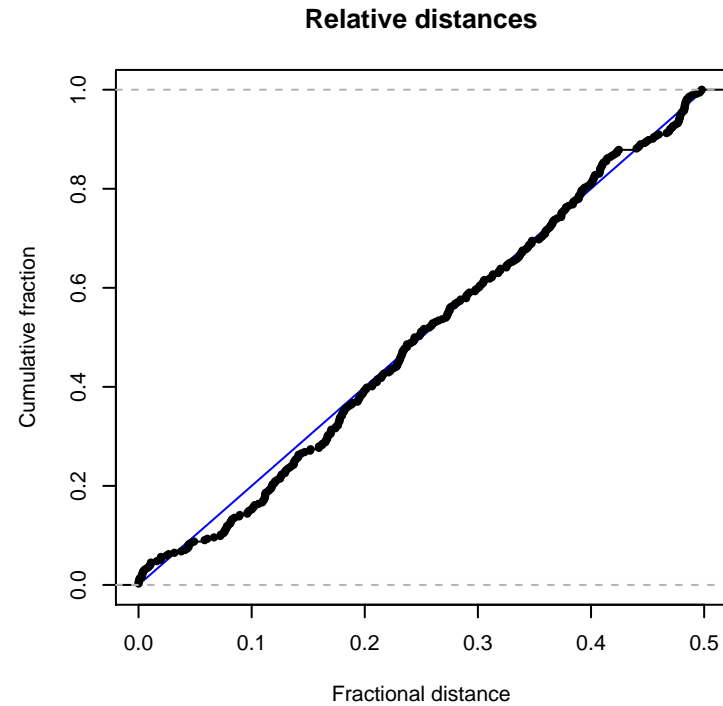
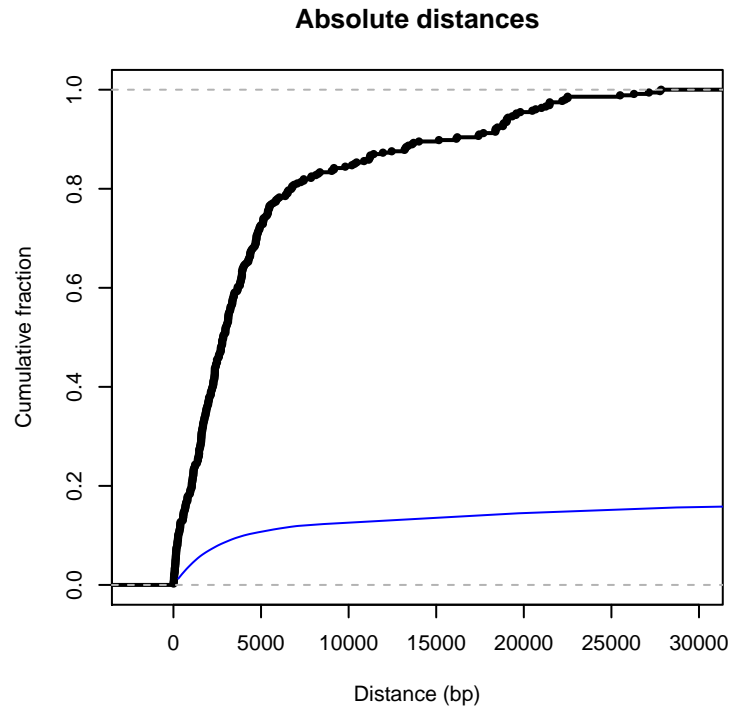
pcontig_070

Query population : 332
Reference population : 93
Relative Ks p-value : 0.110608
Relative ecdf deviation area : 0.0174456
Relative ecdf area correlation : -0.0598794
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 : 4.39488e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.19323



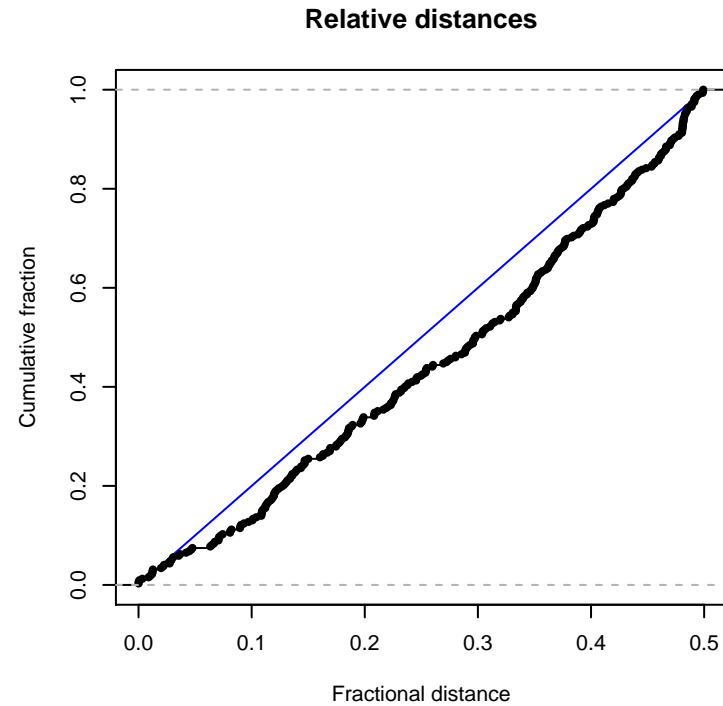
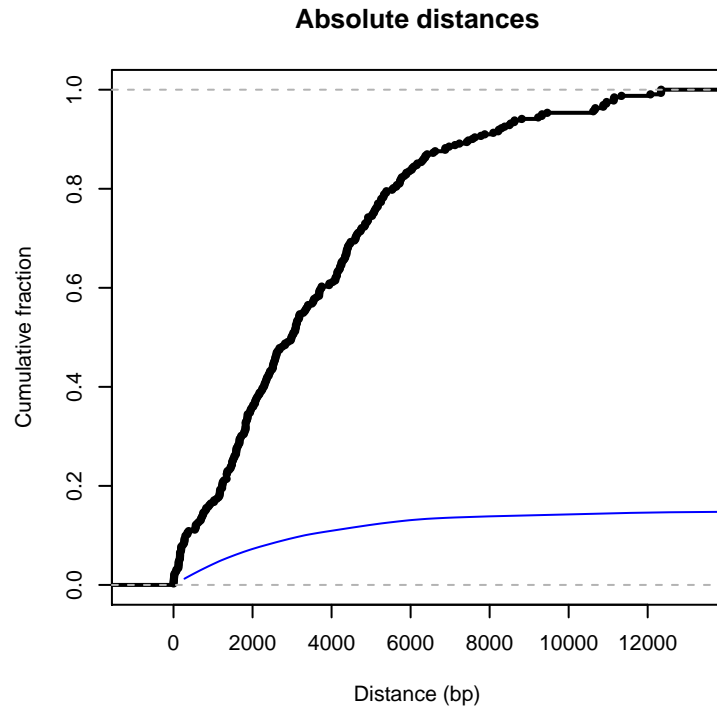
pcontig_072

Query population : 354
Reference population : 70
Relative Ks p-value : 0.238331
Relative ecdf deviation area : 0.00844978
Relative ecdf area correlation : -0.0189288
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 : 2.22045e-16
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.0234



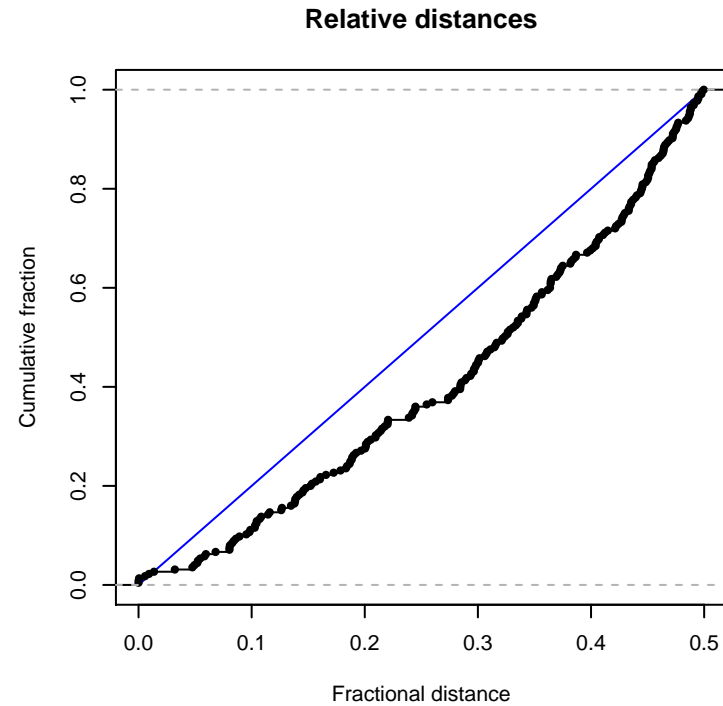
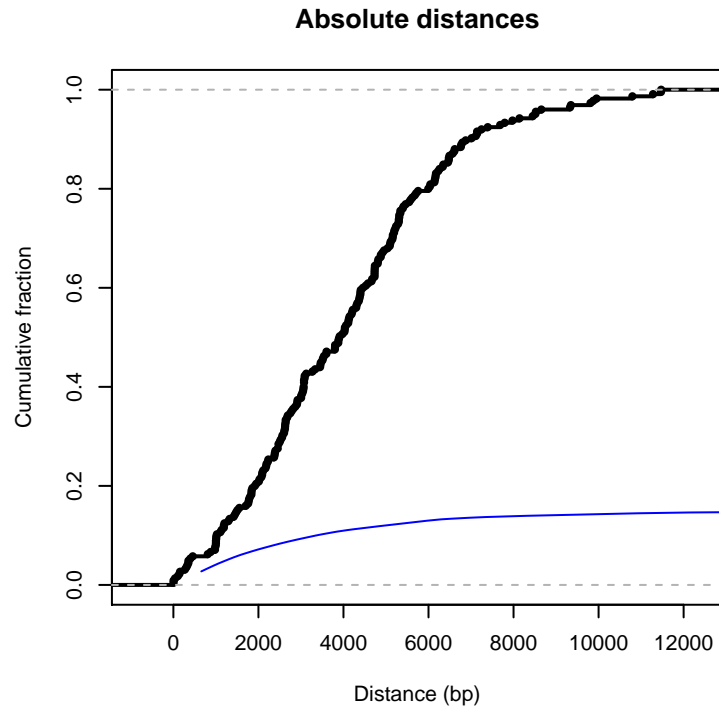
pcontig_073

Query population : 322
Reference population : 70
Relative Ks p-value : 0.000264023
Relative ecdf deviation area : 0.0318325
Relative ecdf area correlation : -0.125055
Relative ecdf deviation 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 : 2.18123e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.25891



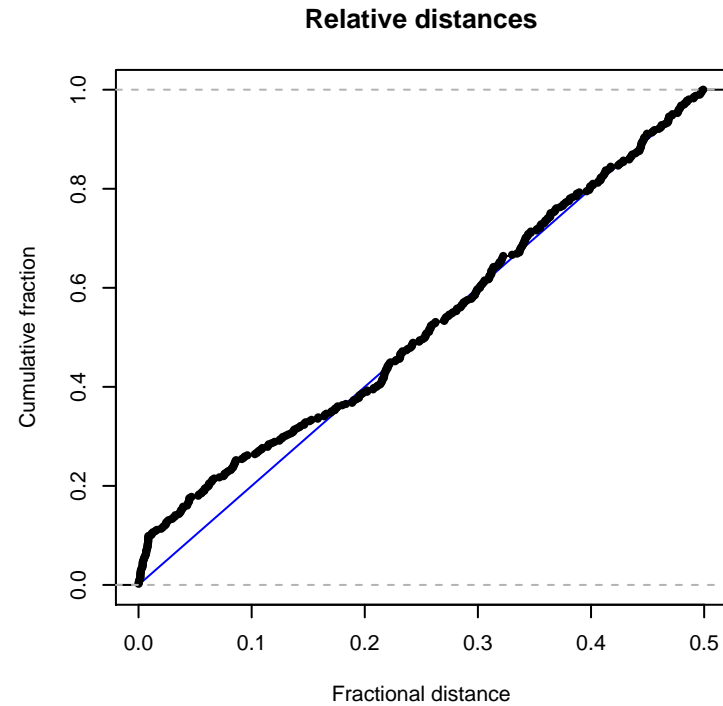
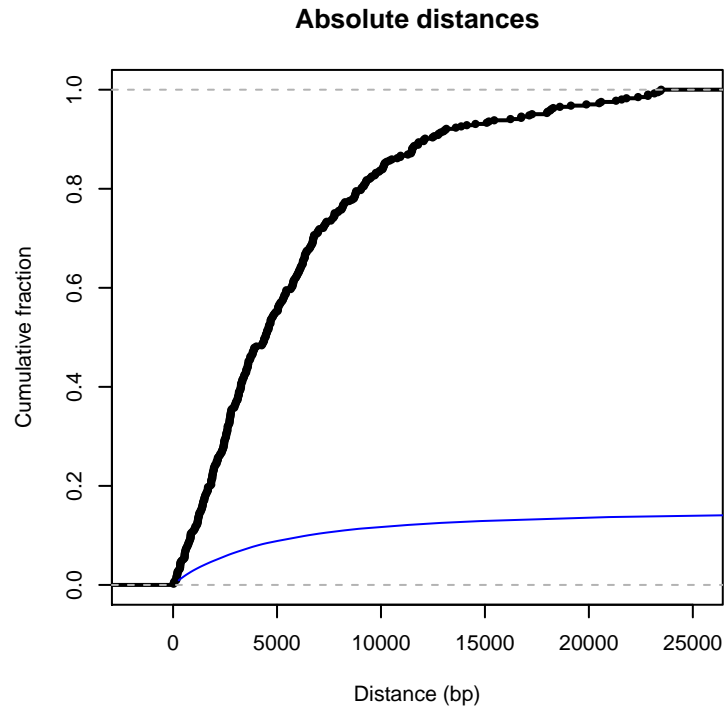
pcontig_074

Query population : 225
Reference population : 64
Relative Ks p-value : 1.23065e-06
Relative ecdf deviation area : 0.0507846
Relative ecdf area correlation : -0.203238
Relative ecdf deviation 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 : 0.0676142
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.47244



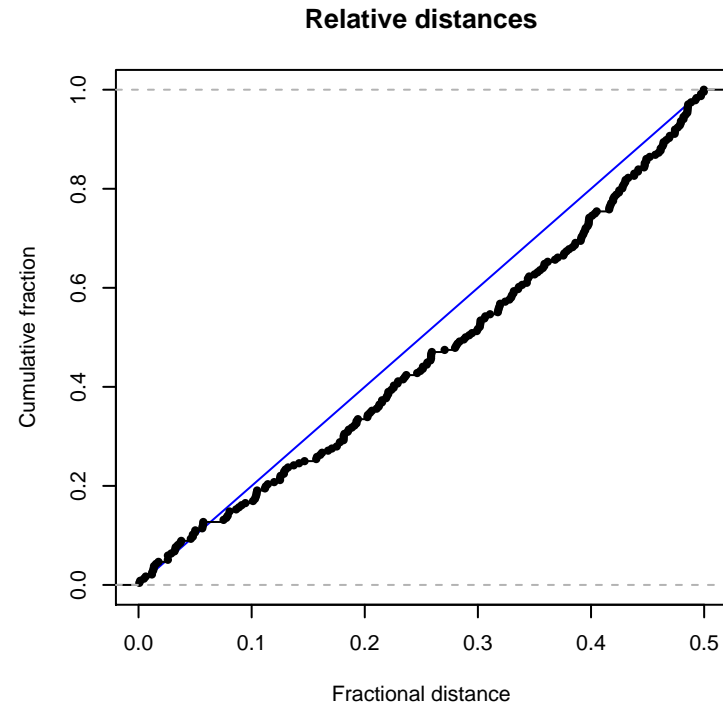
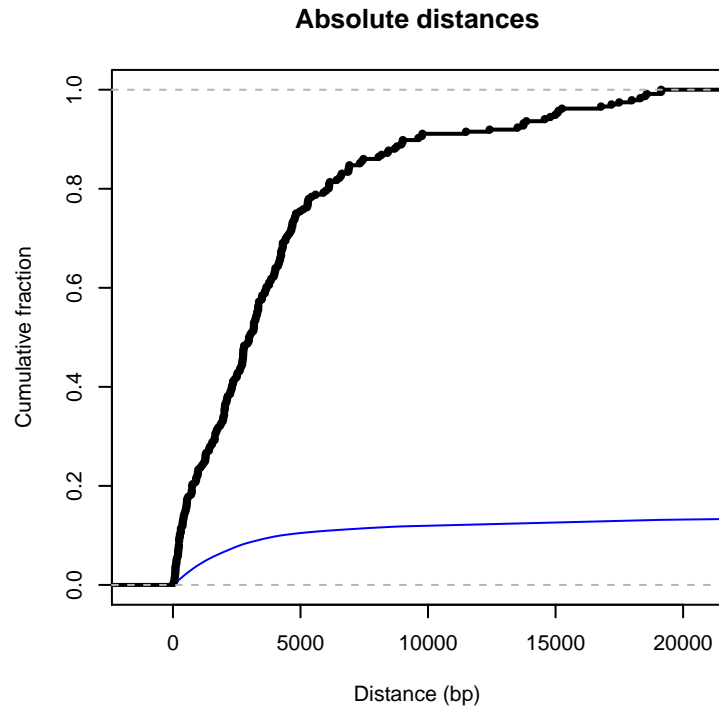
pcontig_075

Query population : 405
Reference population : 53
Relative Ks p-value : 0.00552047
Relative ecdf deviation area : 0.0119307
Relative ecdf area correlation : 0.0401751
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 : 3.70679e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.44574



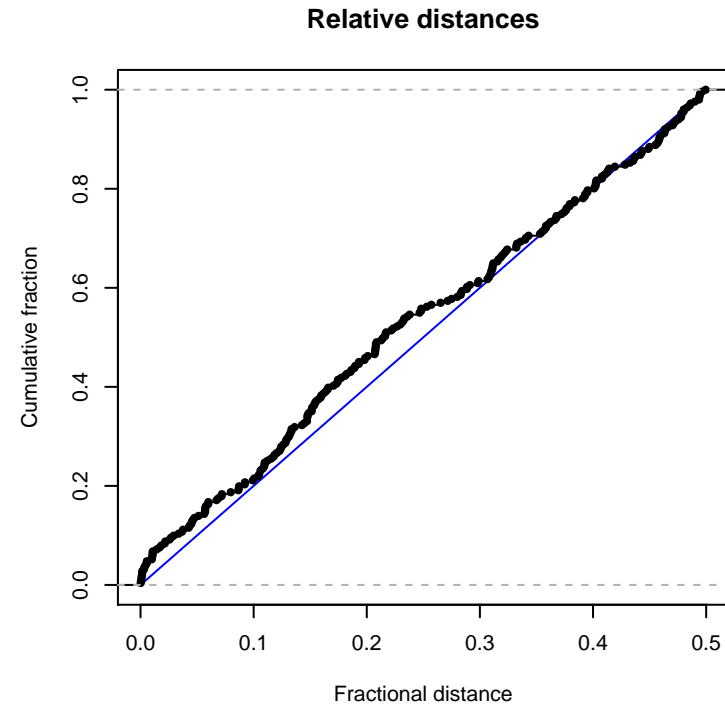
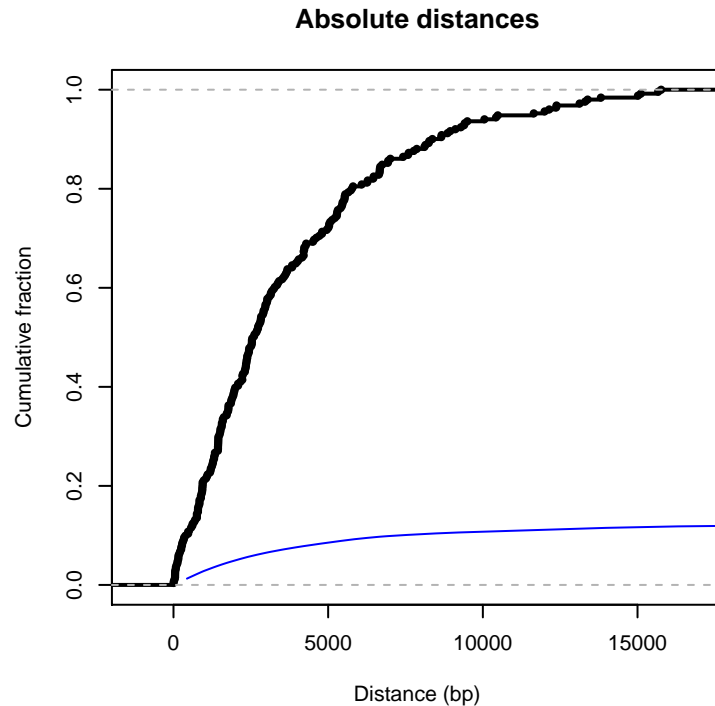
pcontig_077

Query population : 236
Reference population : 68
Relative Ks p-value : 0.0404951
Relative ecdf deviation area : 0.0248129
Relative ecdf area correlation : -0.0958045
Relative ecdf deviation 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 : 1.13531e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.96246



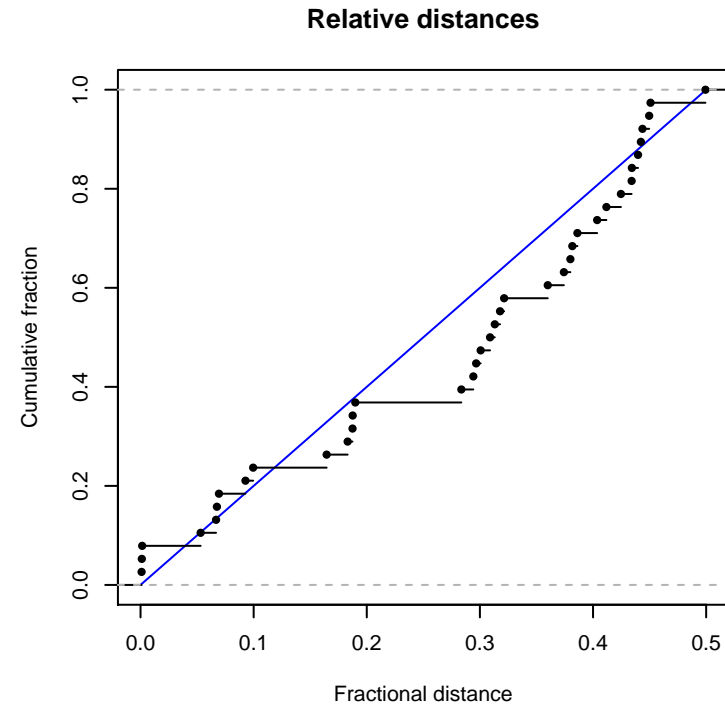
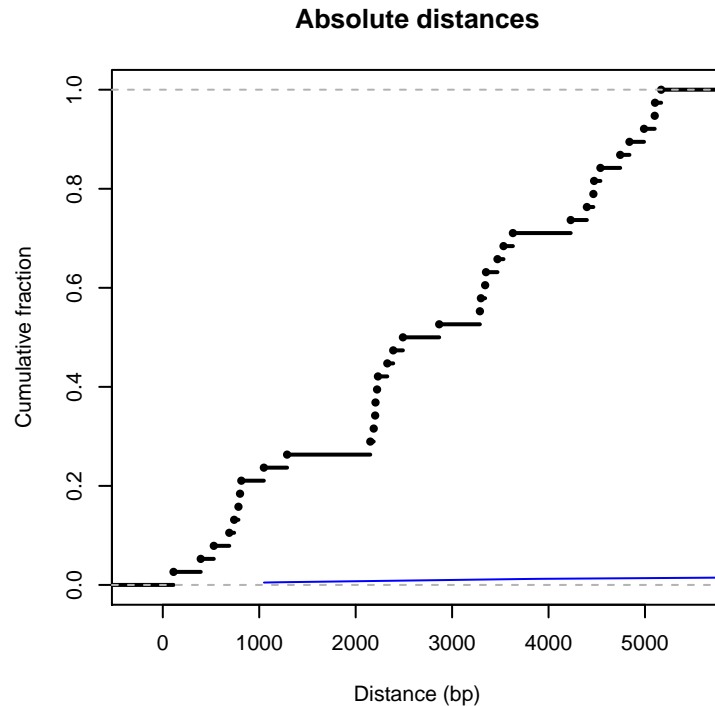
pcontig_078

Query population : 251
Reference population : 45
Relative Ks p-value : 0.110576
Relative ecdf deviation area : 0.0140905
Relative ecdf area correlation : 0.050088
Relative ecdf deviation area p-value : 0.14
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.13669



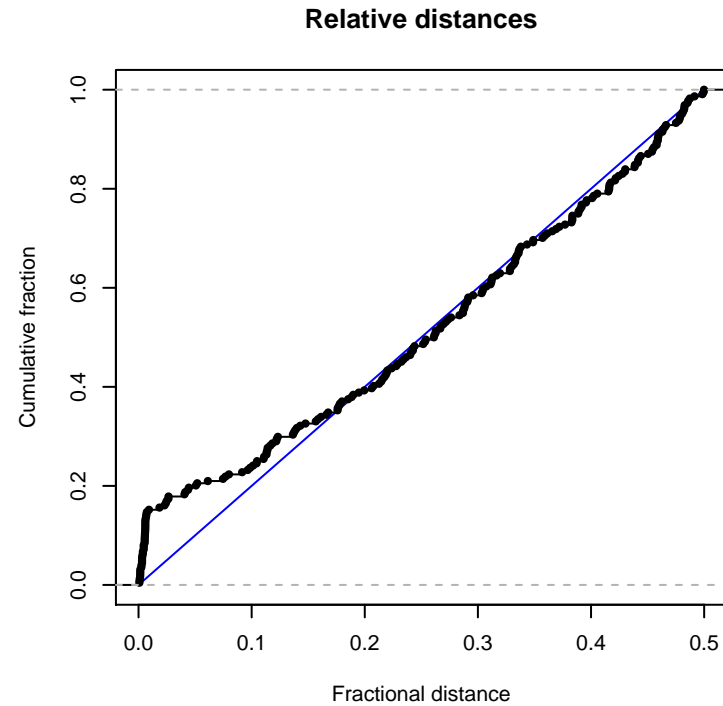
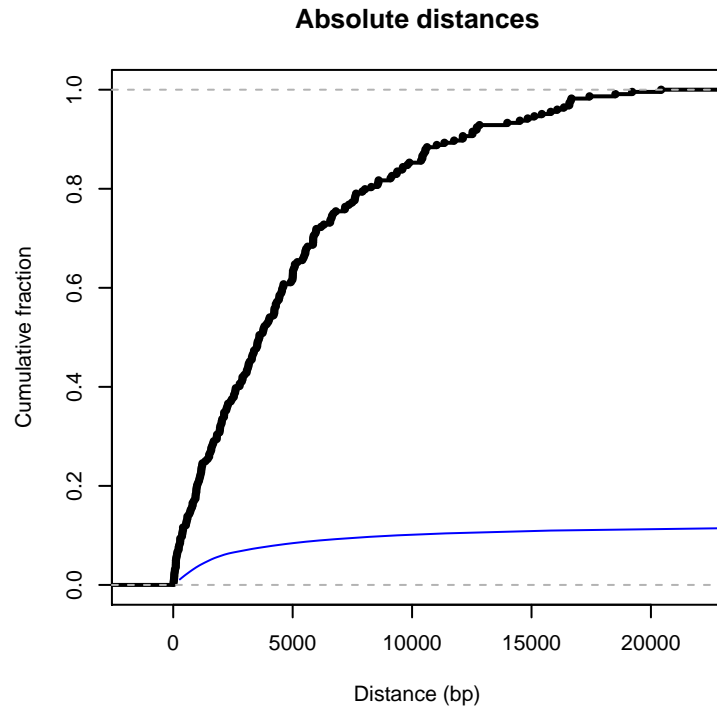
pcontig_079

Query population : 38
Reference population : 7
Relative Ks p-value : 0.0860689
Relative ecdf deviation area : 0.03495
Relative ecdf area correlation : -0.107135
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 : 2.52404e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 32.1063



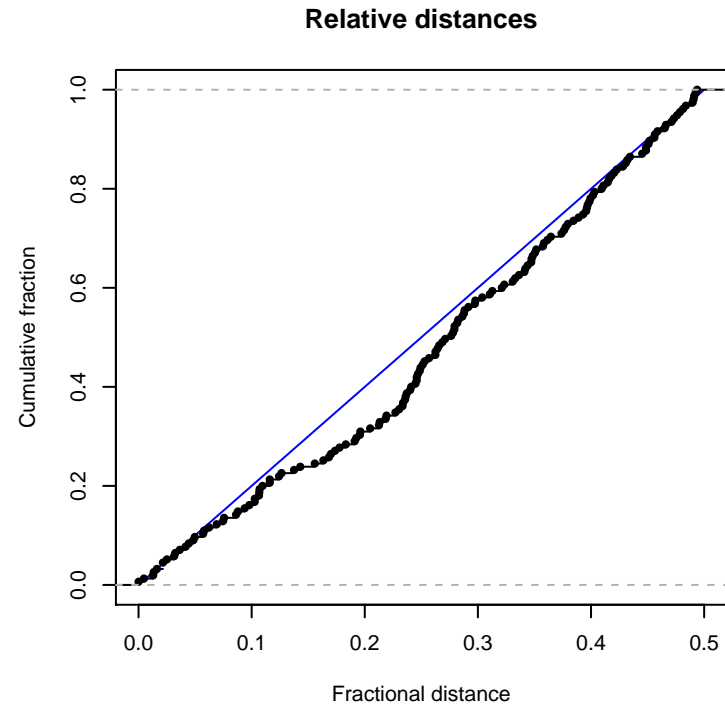
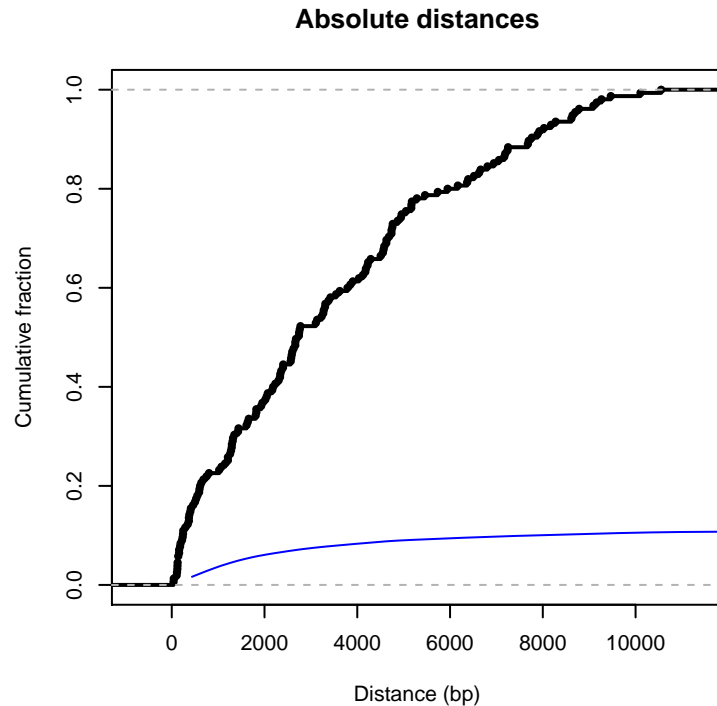
pcontig_080

Query population : 224
Reference population : 62
Relative Ks p-value : 0.000695268
Relative ecdf deviation area : 0.0161172
Relative ecdf area correlation : 0.0224406
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 : 2.28988e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.8849



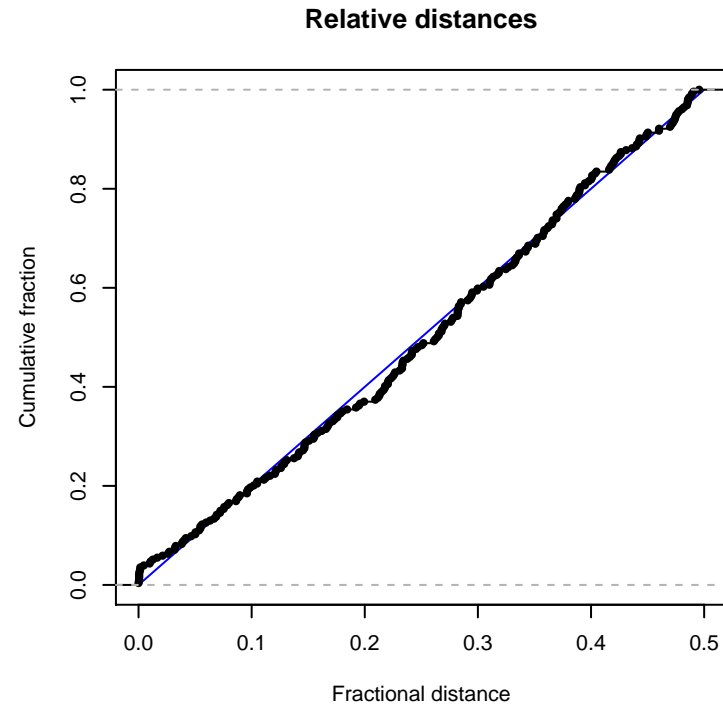
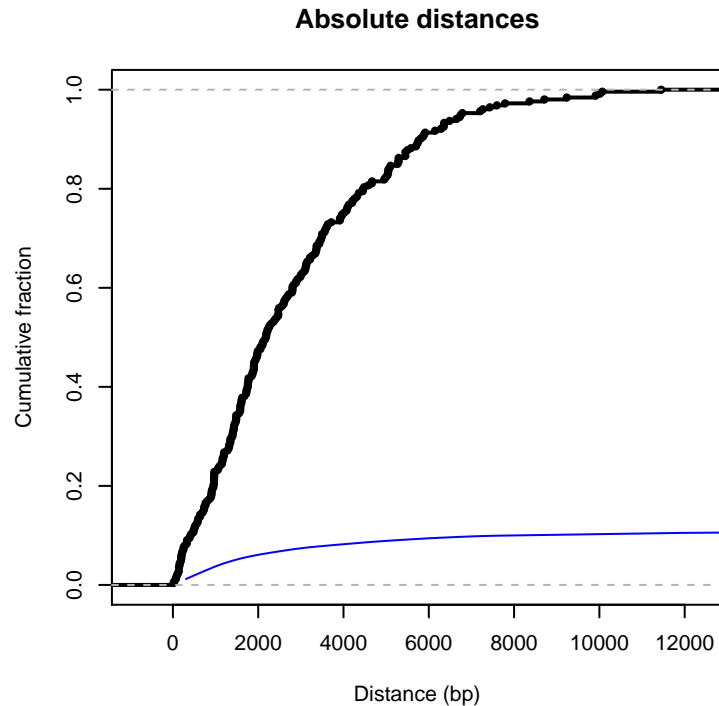
pcontig_081

Query population : 155
Reference population : 58
Relative Ks p-value : 0.0397809
Relative ecdf deviation area : 0.0194965
Relative ecdf area correlation : -0.0770052
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 : 2.74847e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.46043



pcontig_082

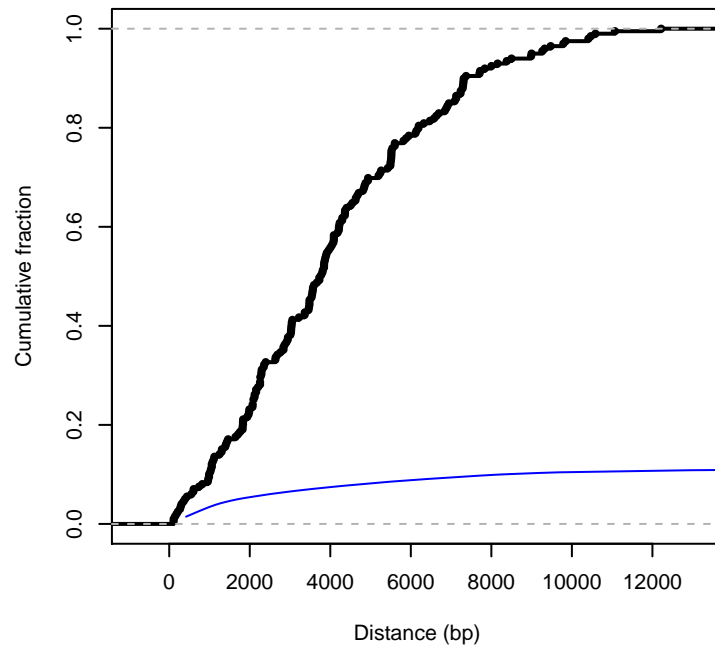
Query population : 254
Reference population : 60
Relative Ks p-value : 0.572246
Relative ecdf deviation area : 0.00699026
Relative ecdf area correlation : -0.0113741
Relative ecdf deviation area p-value : 0.69
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.63343e-12
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.38687



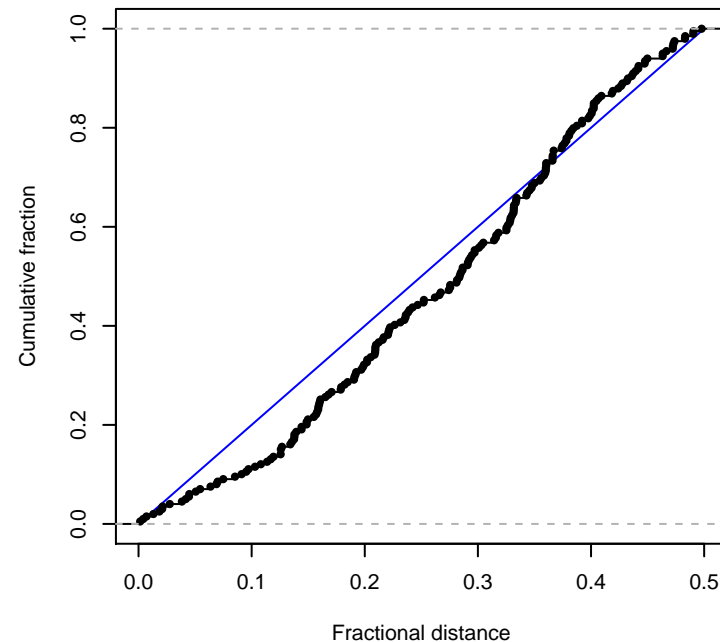
pcontig_083

Query population : 199
Reference population : 54
Relative Ks p-value : 0.00984334
Relative ecdf deviation area : 0.0250583
Relative ecdf area correlation : -0.0740531
Relative ecdf deviation area p-value : 0.04
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.141463
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.37222

Absolute distances

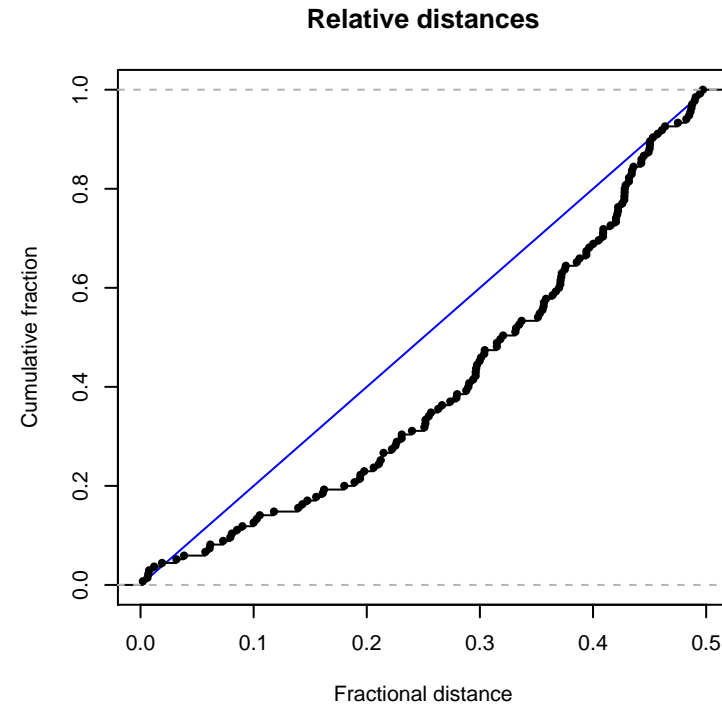
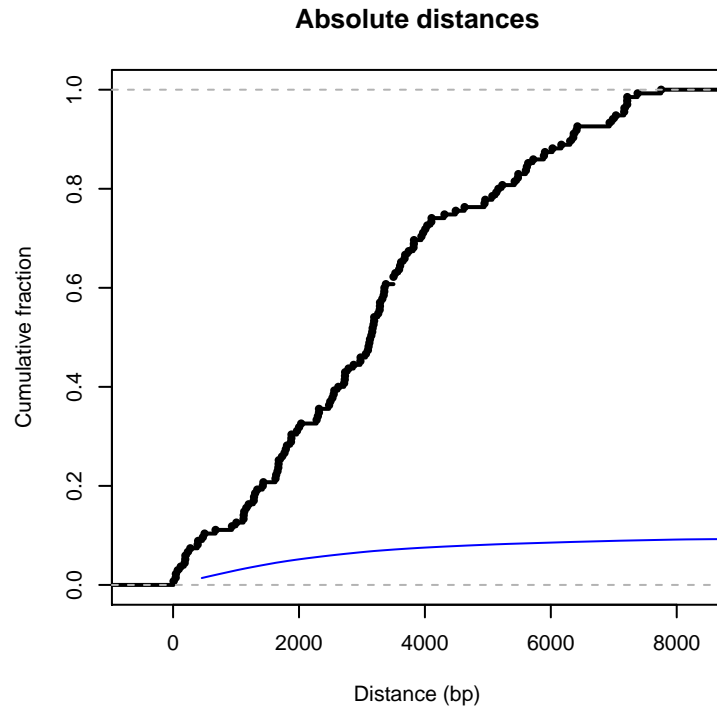


Relative distances



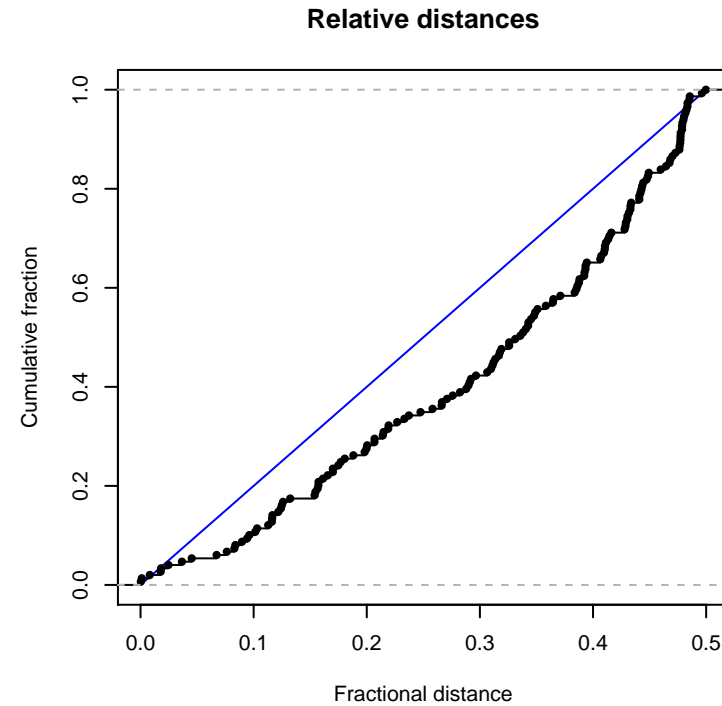
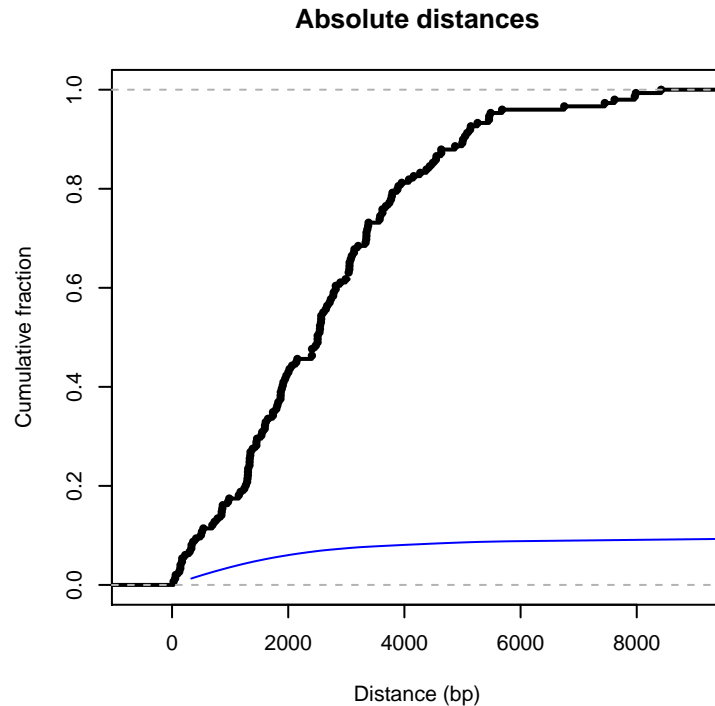
pcontig_084

Query population : 135
Reference population : 47
Relative Ks p-value : 0.000107923
Relative ecdf deviation area : 0.0522374
Relative ecdf area correlation : -0.20844
Relative ecdf deviation 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 : 1.07909e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.30412



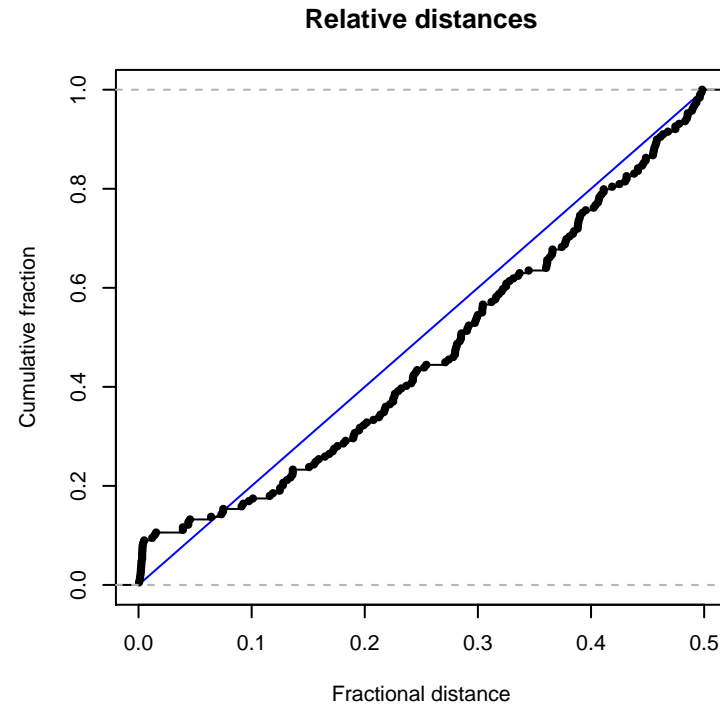
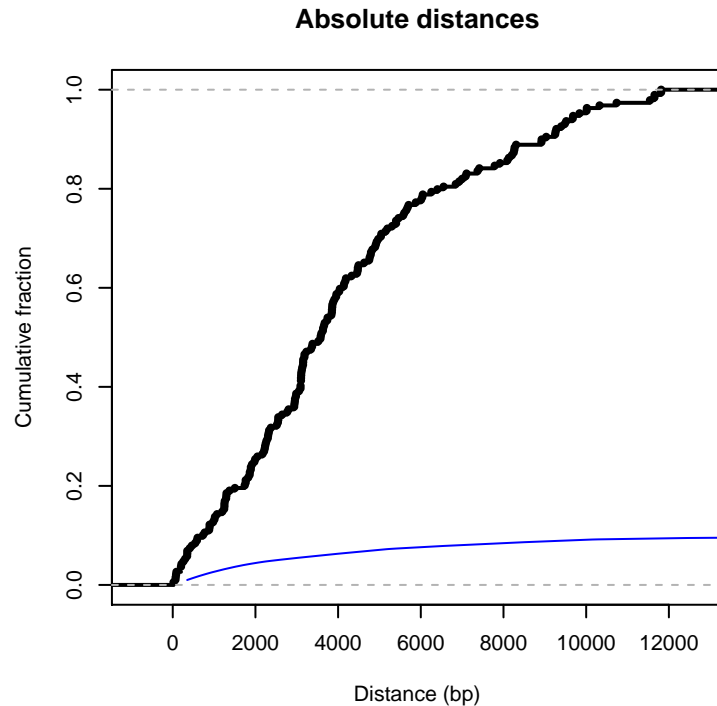
pcontig_086

Query population : 149
Reference population : 60
Relative Ks p-value : 4.20073e-05
Relative ecdf deviation area : 0.0563721
Relative ecdf area correlation : -0.223701
Relative ecdf deviation 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 : 1.39549e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.46882



pcontig_087

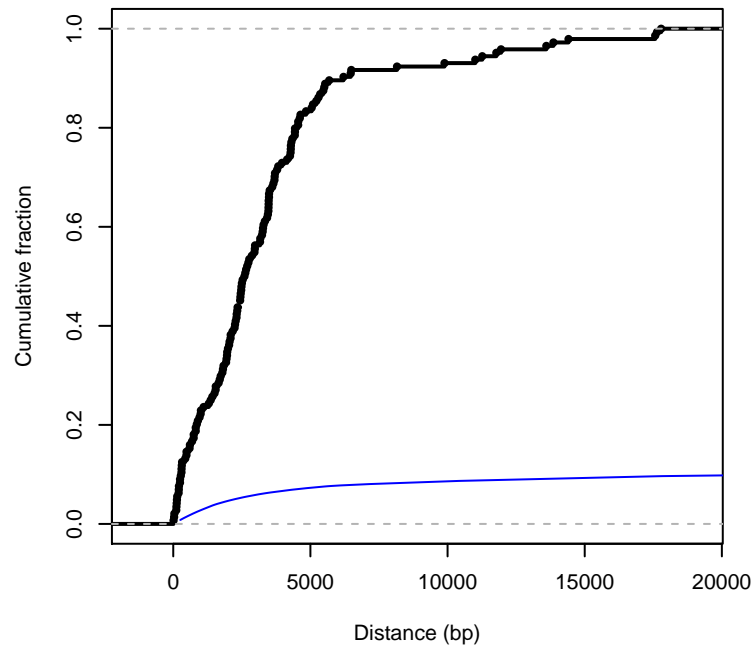
Query population : 189
Reference population : 44
Relative Ks p-value : 0.0407236
Relative ecdf deviation area : 0.0261776
Relative ecdf area correlation : -0.08218
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.26469e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.4995



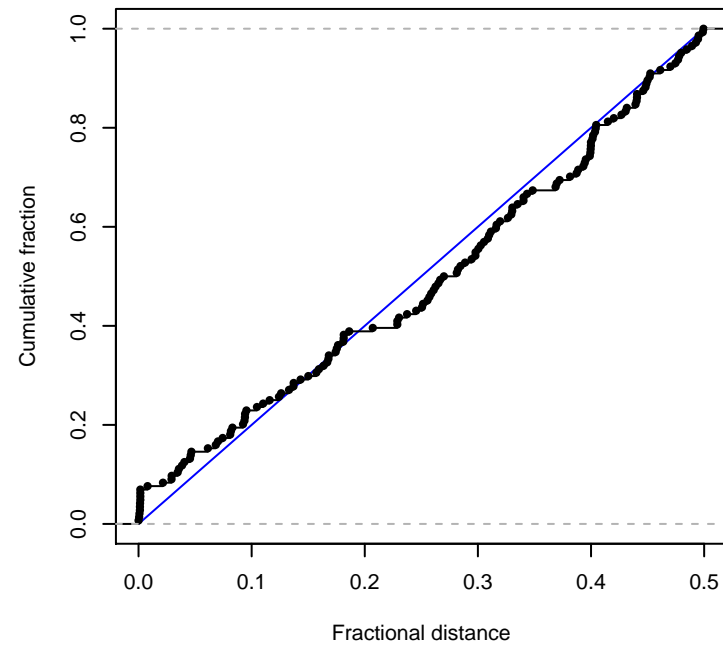
pcontig_088

Query population : 144
Reference population : 48
Relative Ks p-value : 0.423834
Relative ecdf deviation area : 0.0153494
Relative ecdf area correlation : -0.0293892
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 : 1.11022e-16
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.0825

Absolute distances



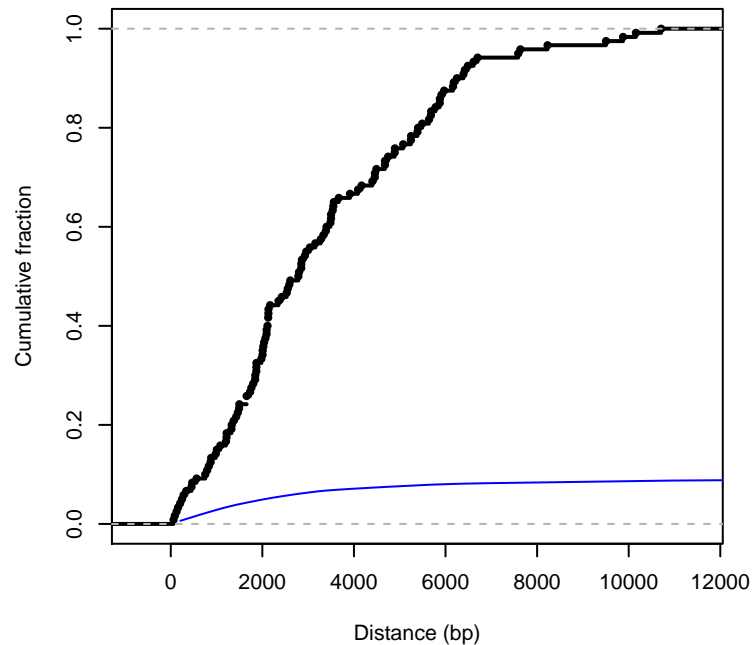
Relative distances



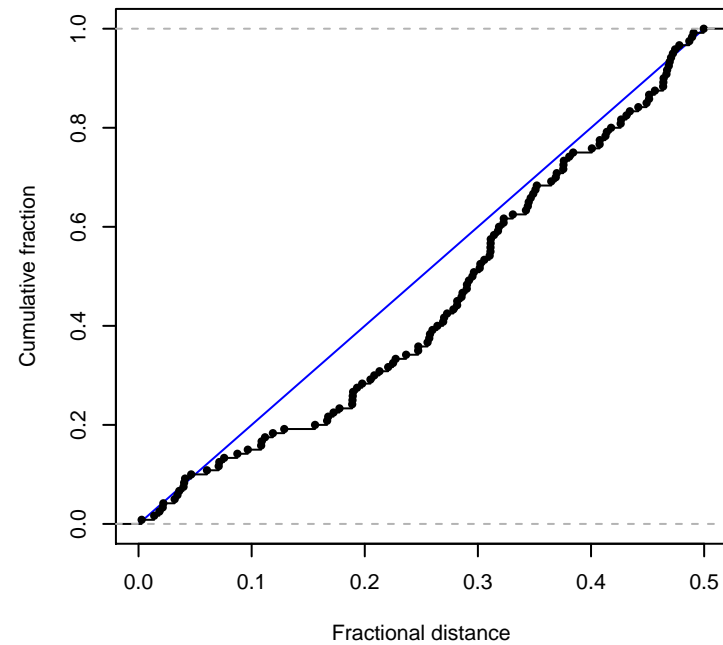
pcontig_089

Query population : 120
Reference population : 46
Relative Ks p-value : 0.00743323
Relative ecdf deviation area : 0.0315753
Relative ecdf area correlation : -0.125439
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 : 7.12426e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.53485

Absolute distances

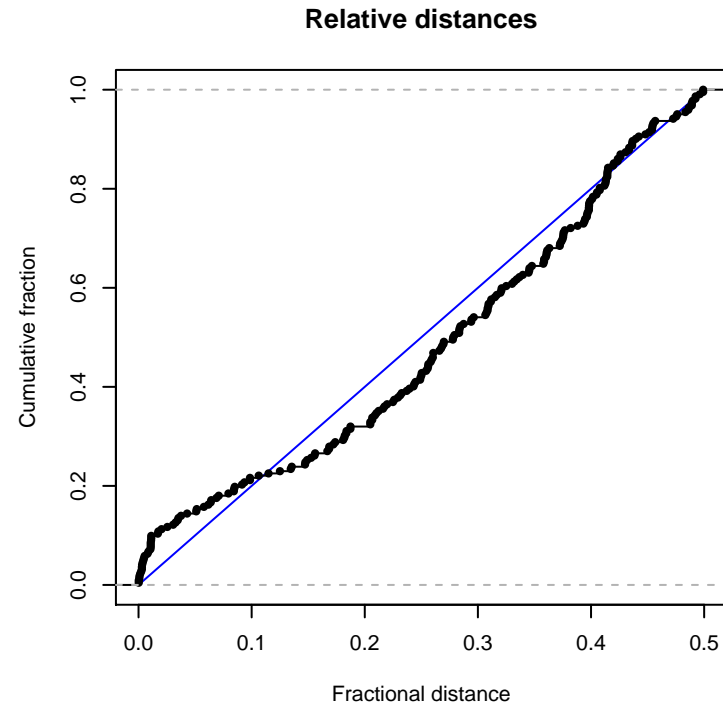
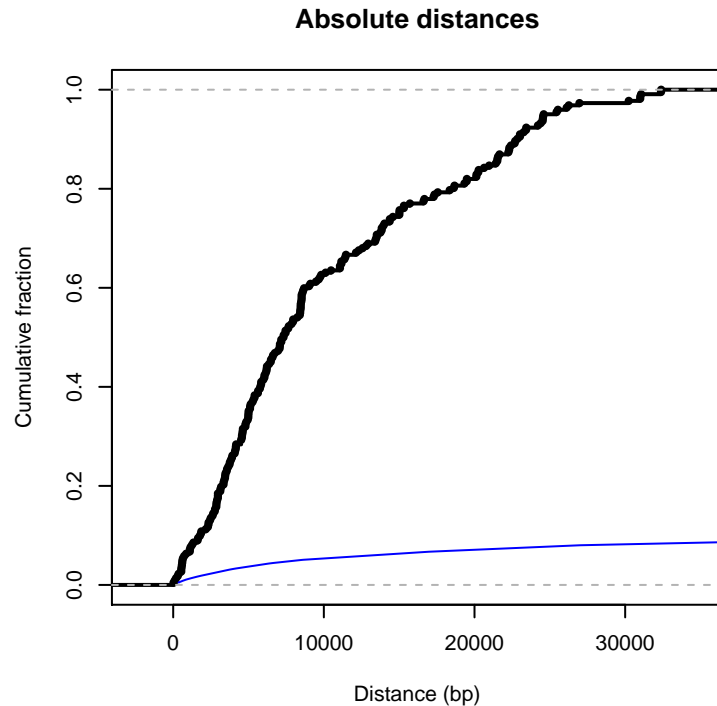


Relative distances



pcontig_090

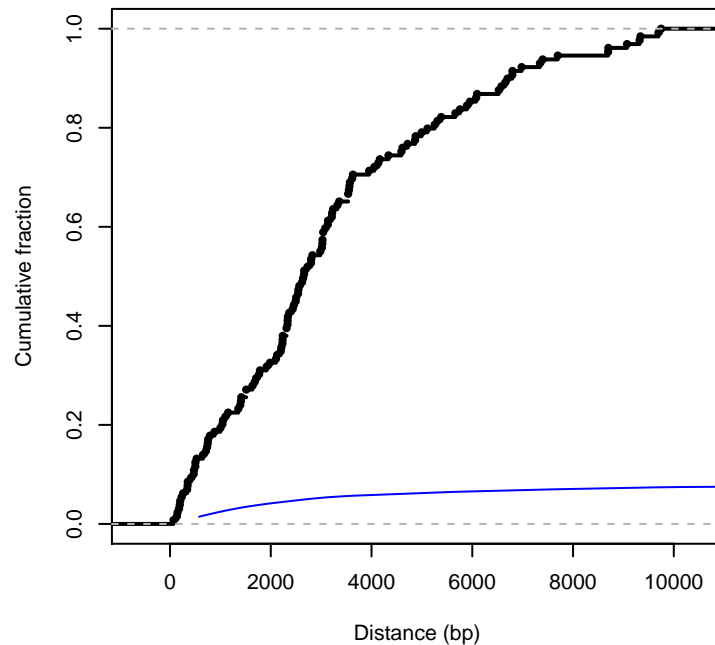
Query population : 222
Reference population : 21
Relative Ks p-value : 0.0552148
Relative ecdf deviation area : 0.0223409
Relative ecdf area correlation : -0.0485033
Relative ecdf deviation area p-value : 0.04
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.85236e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.22869



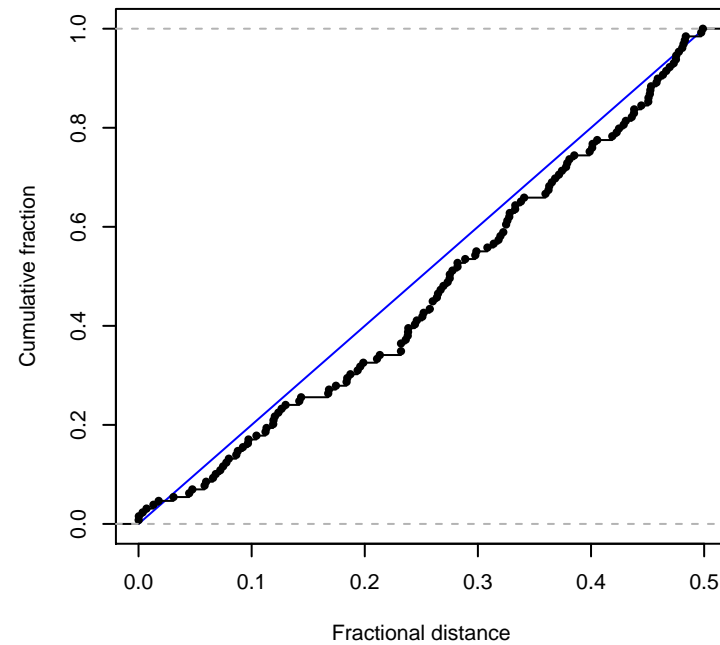
pcontig_091

Query population : 129
Reference population : 39
Relative Ks p-value : 0.0405932
Relative ecdf deviation area : 0.023299
Relative ecdf area correlation : -0.0910798
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 : 2.28109e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.51181

Absolute distances

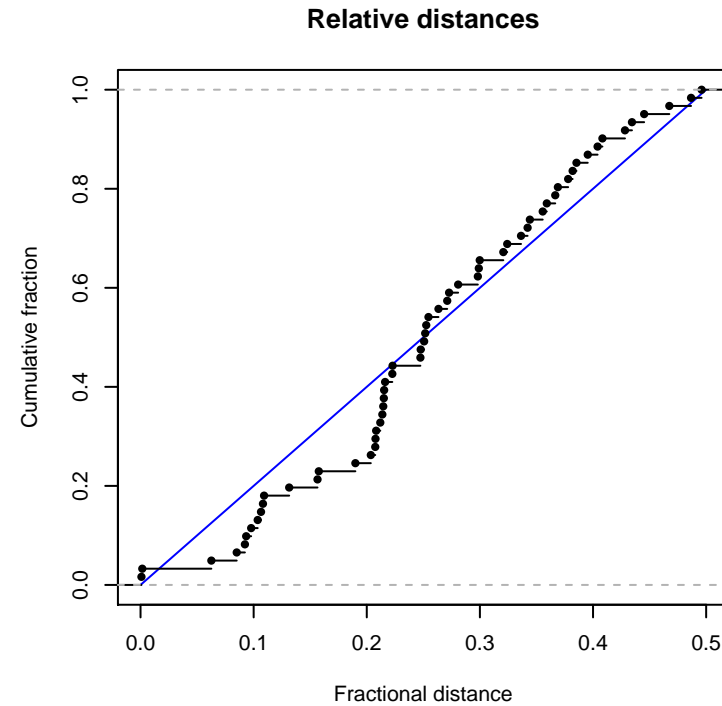
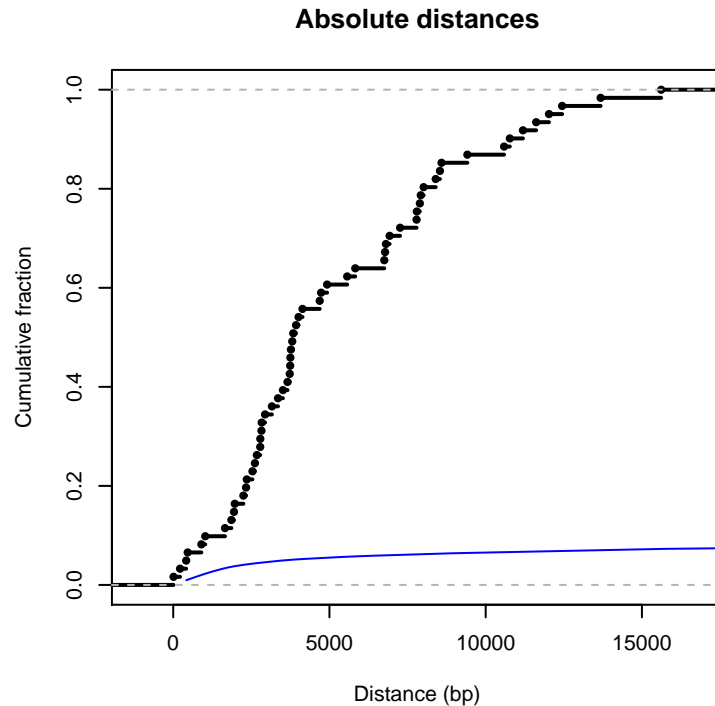


Relative distances



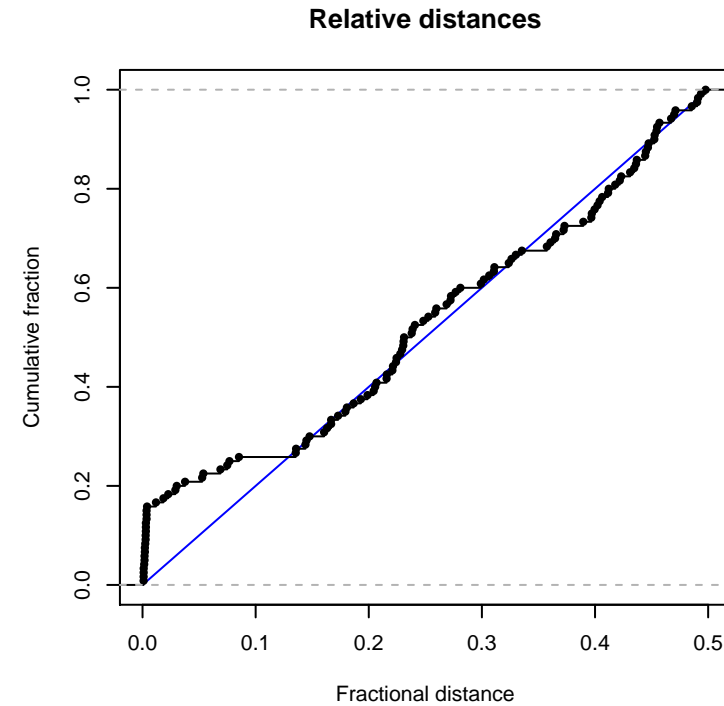
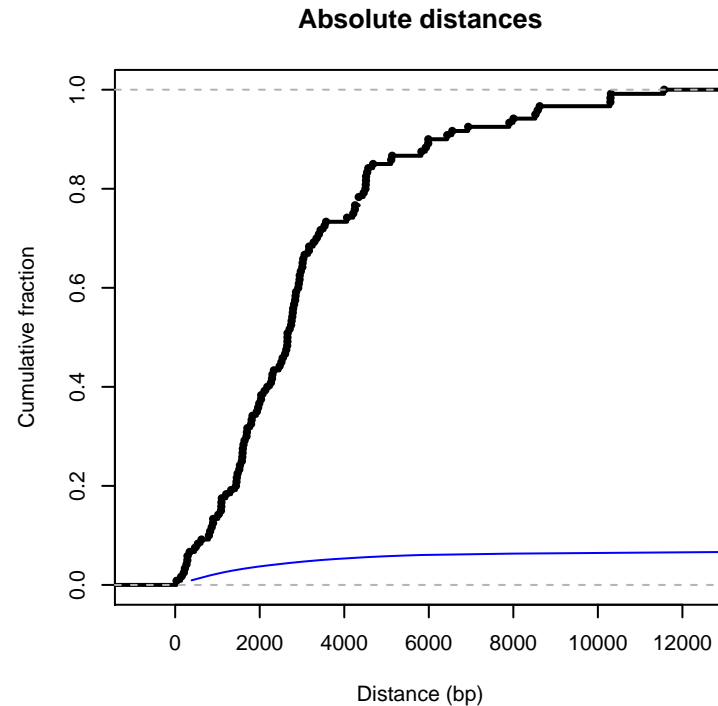
pcontig_092

Query population : 61
Reference population : 35
Relative Ks p-value : 0.0747666
Relative ecdf deviation area : 0.0283917
Relative ecdf area correlation : -0.0343603
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 : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.403387
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0.723685



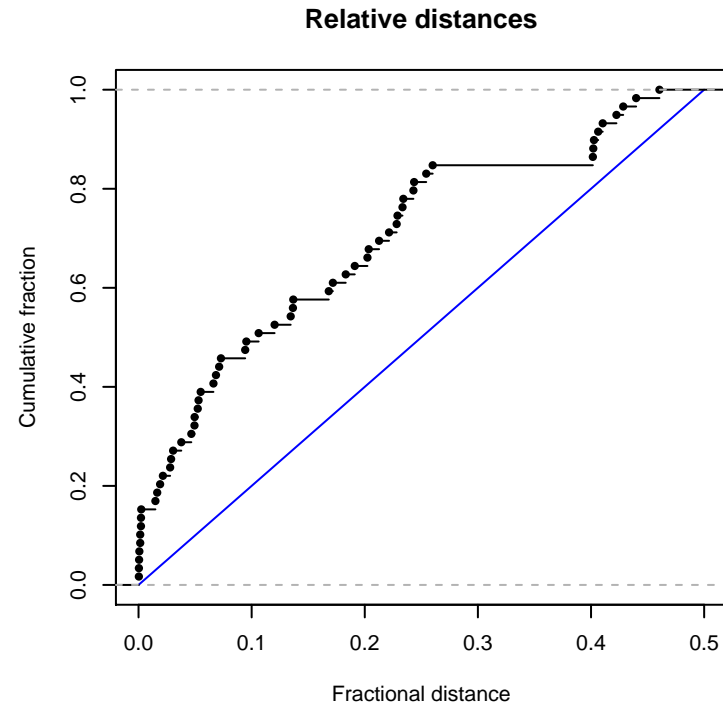
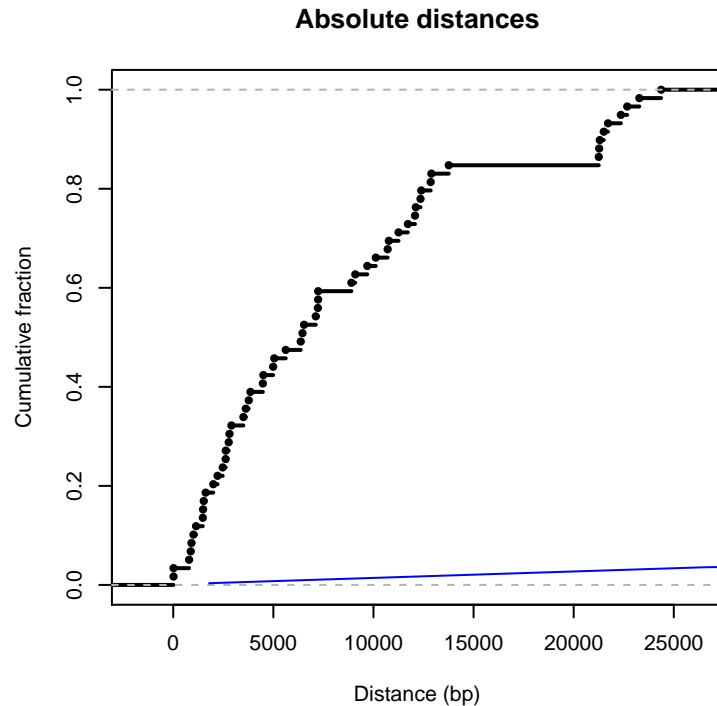
pcontig_095

Query population : 120
Reference population : 37
Relative Ks p-value : 0.00881417
Relative ecdf deviation area : 0.0187536
Relative ecdf area correlation : 0.0379672
Relative ecdf deviation area p-value : 0.18
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00126328
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.35036



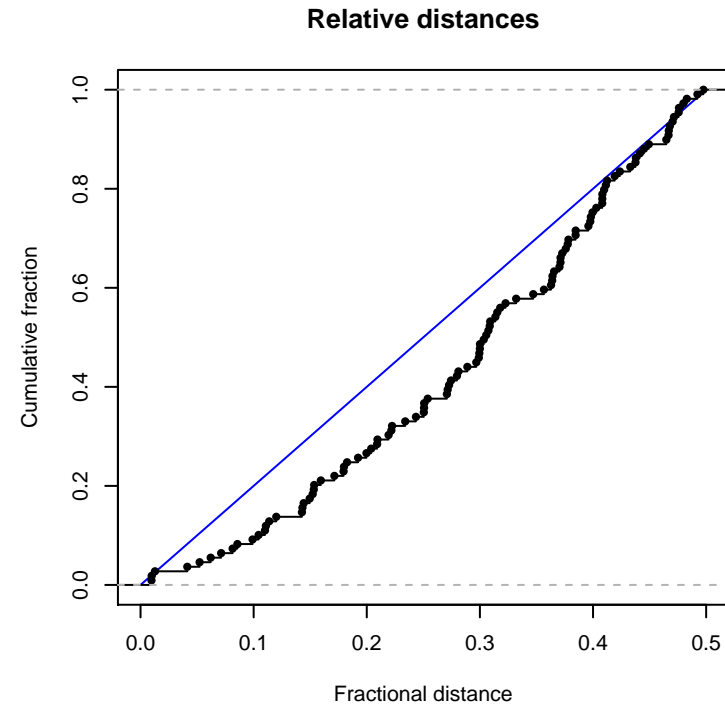
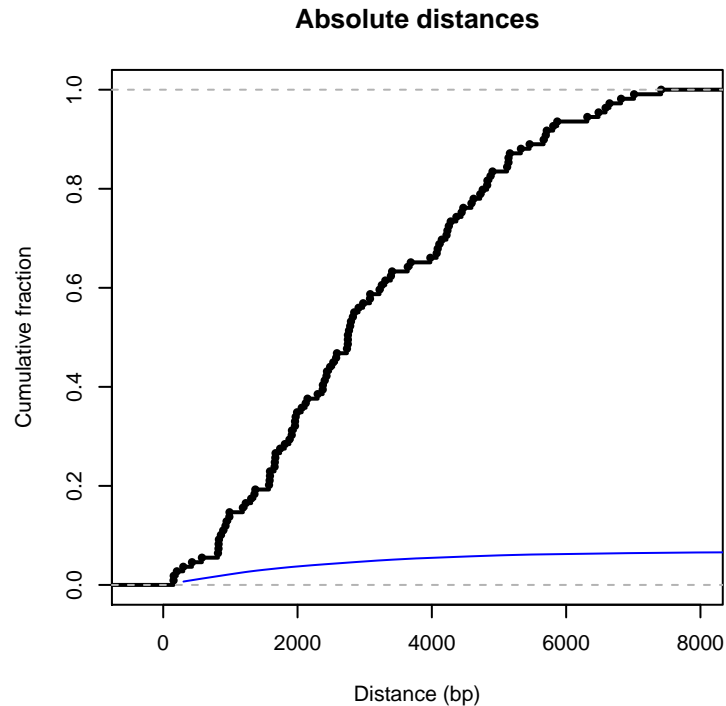
pcontig_096

Query population : 59
Reference population : 3
Relative Ks p-value : 3.92351e-06
Relative ecdf deviation area : 0.0998175
Relative ecdf area correlation : 0.398557
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.37405e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 80.6233



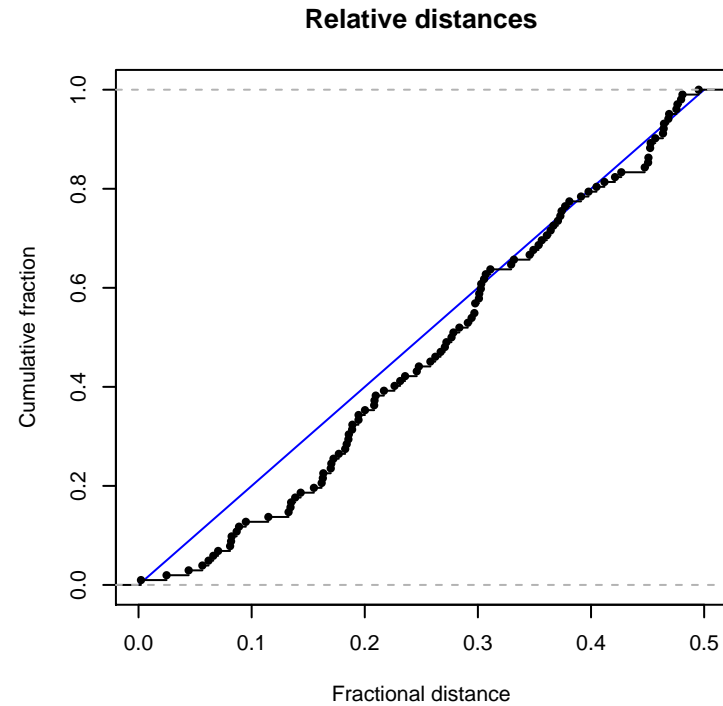
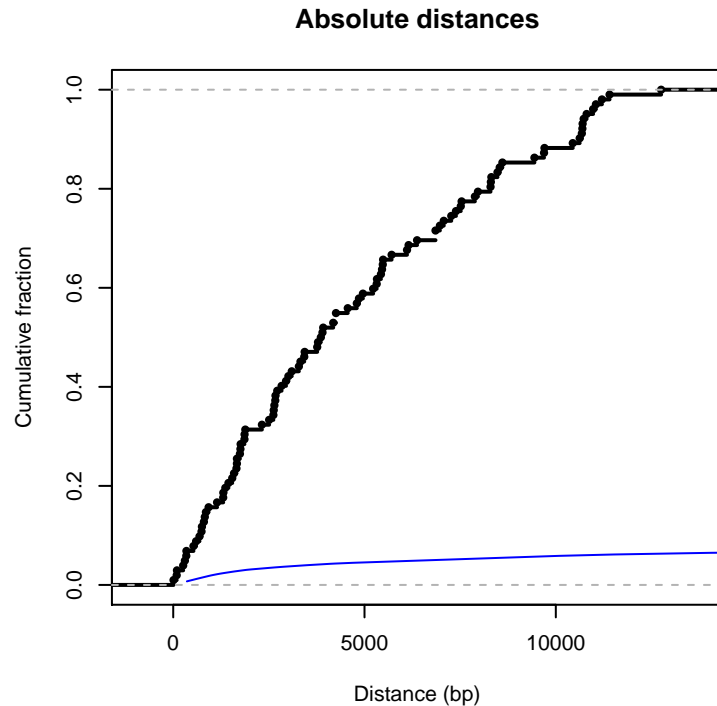
pcontig_097

Query population : 109
Reference population : 35
Relative Ks p-value : 0.00511353
Relative ecdf deviation area : 0.0434869
Relative ecdf area correlation : -0.171583
Relative ecdf deviation 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 : 0.05091
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.00082



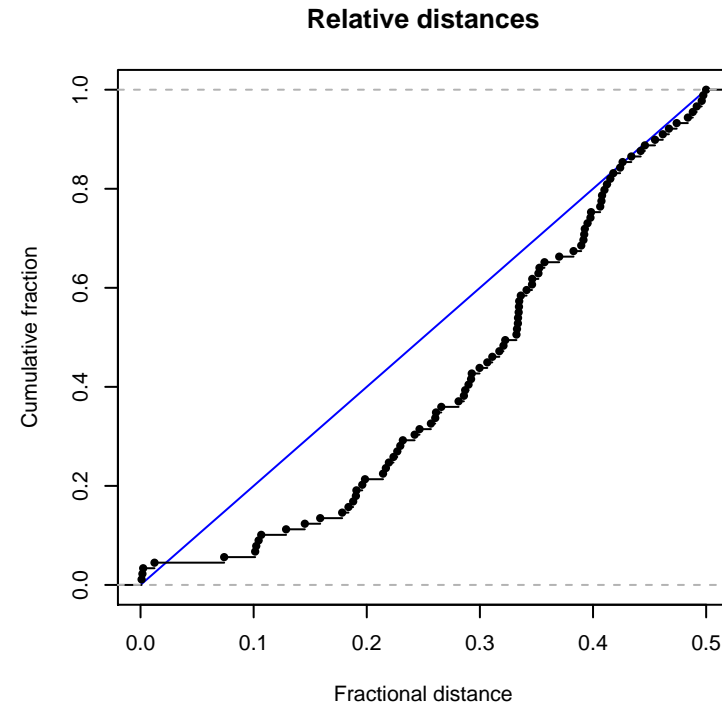
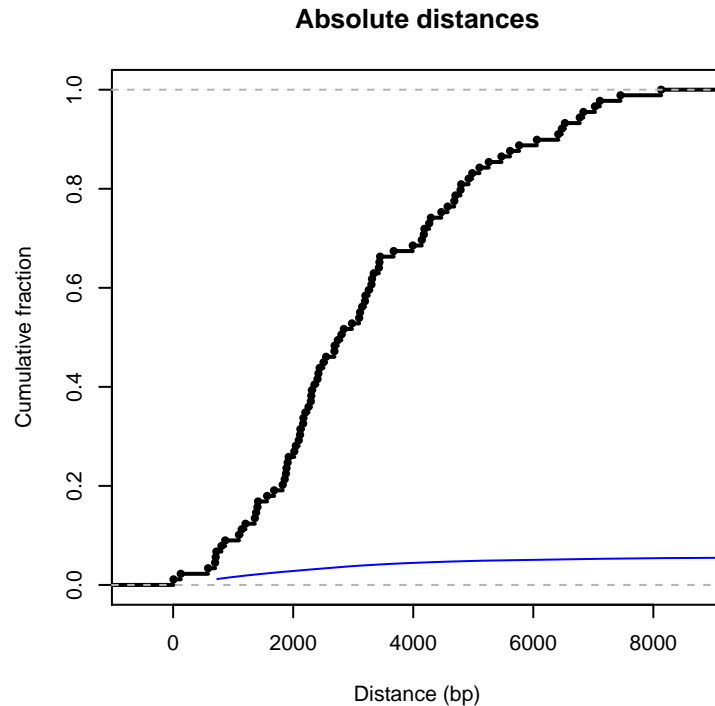
pcontig_100

Query population : 102
Reference population : 31
Relative Ks p-value : 0.0708416
Relative ecdf deviation area : 0.0243496
Relative ecdf area correlation : -0.0930968
Relative ecdf deviation area p-value : 0.11
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00609696
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.06634



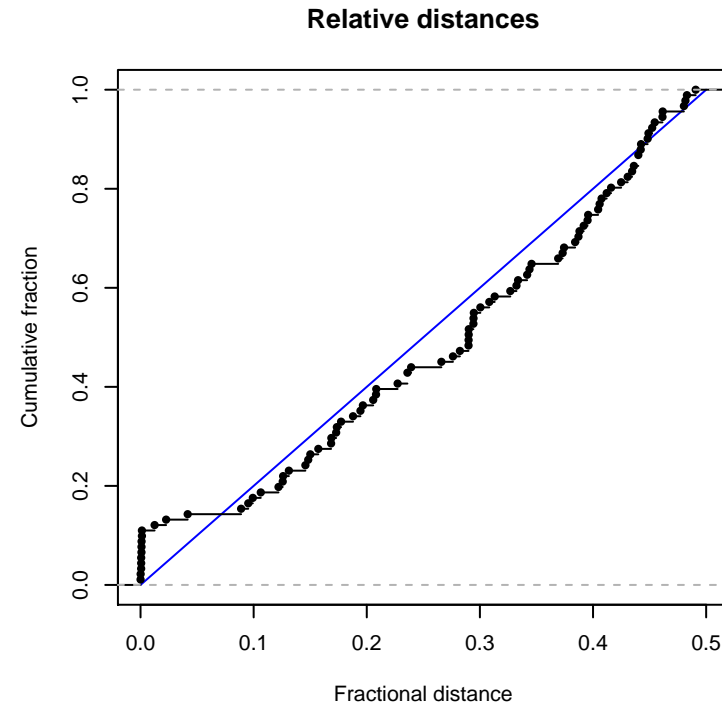
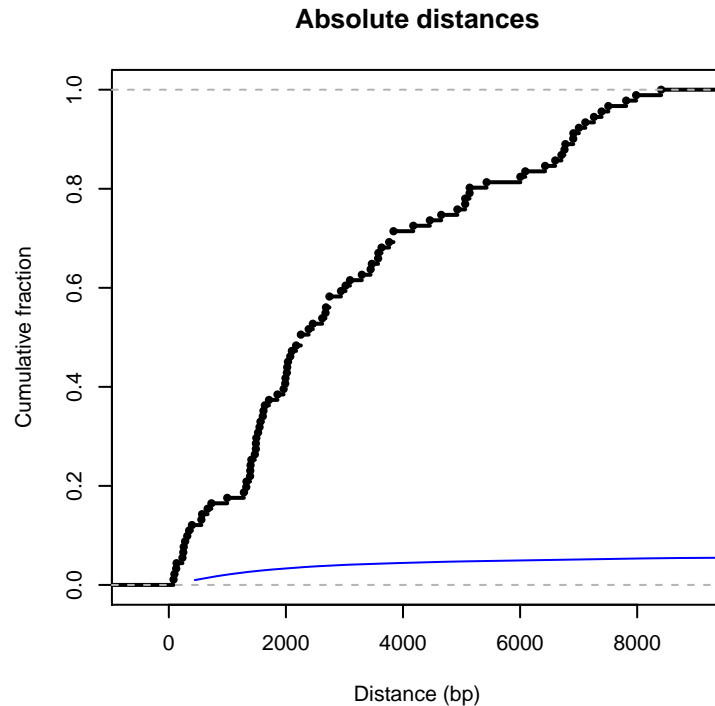
pcontig_103

Query population : 89
Reference population : 25
Relative Ks p-value : 0.000253742
Relative ecdf deviation area : 0.0550279
Relative ecdf area correlation : -0.218366
Relative ecdf deviation 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 : 0.000176602
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.15567



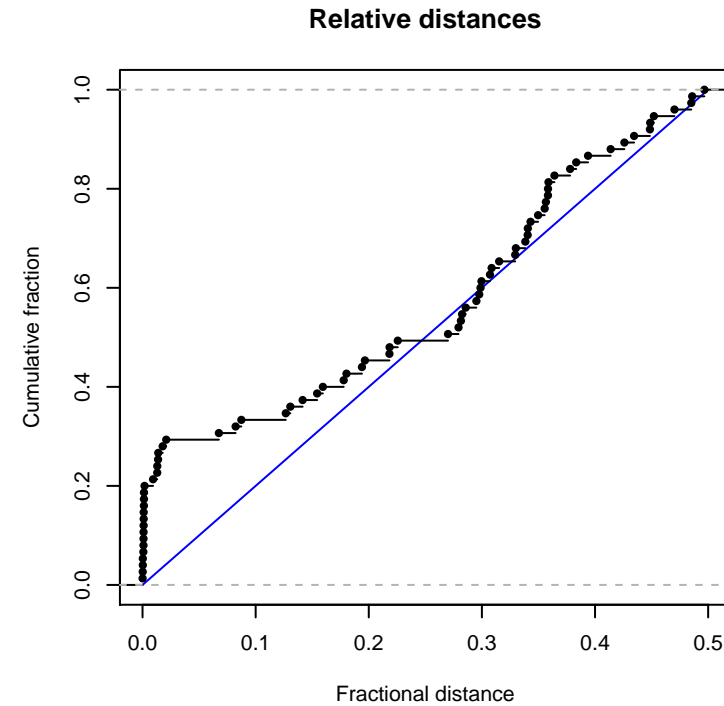
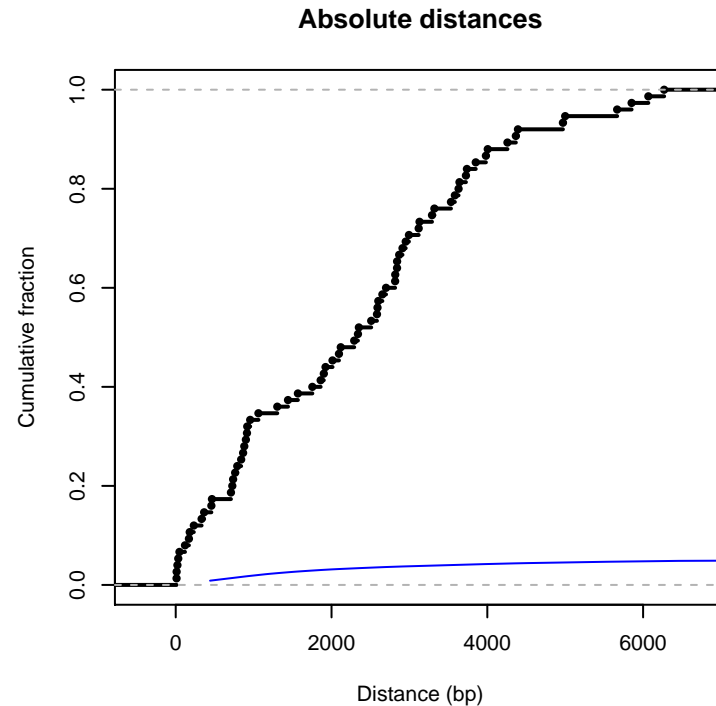
pcontig_104

Query population : 91
Reference population : 34
Relative Ks p-value : 0.227352
Relative ecdf deviation area : 0.0237977
Relative ecdf area correlation : -0.0572332
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 : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.31109e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.82207



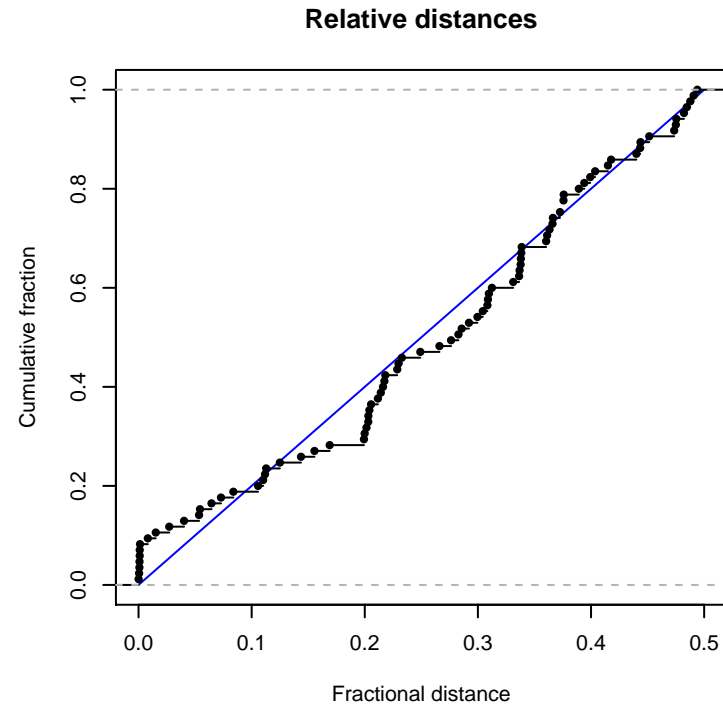
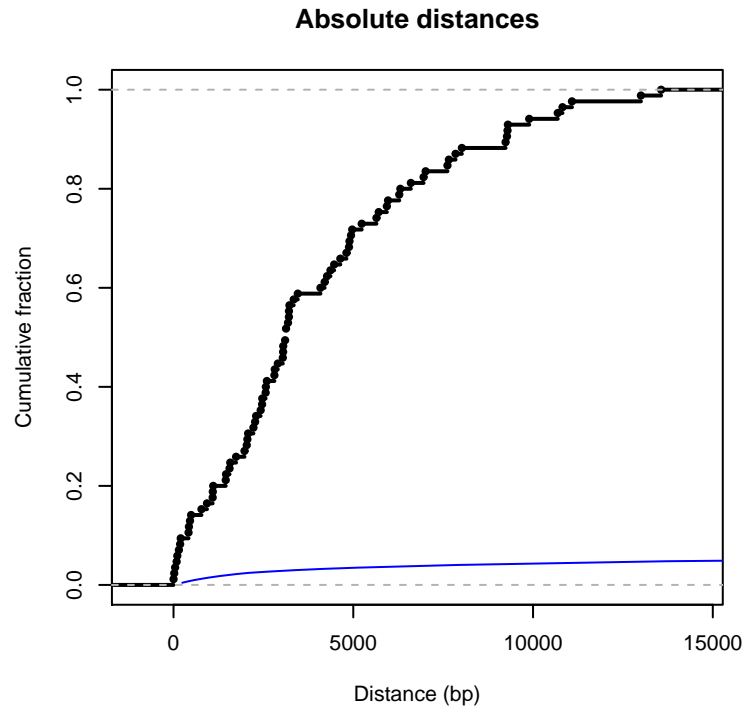
pcontig_106

Query population : 75
Reference population : 30
Relative Ks p-value : 0.000115358
Relative ecdf deviation area : 0.0364583
Relative ecdf area correlation : 0.134071
Relative ecdf deviation 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 : 1.66533e-14
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.1296



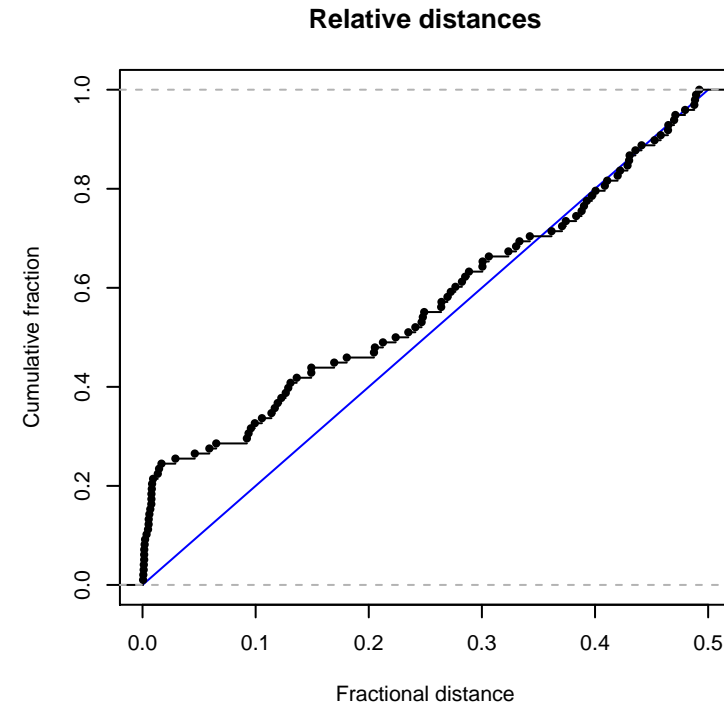
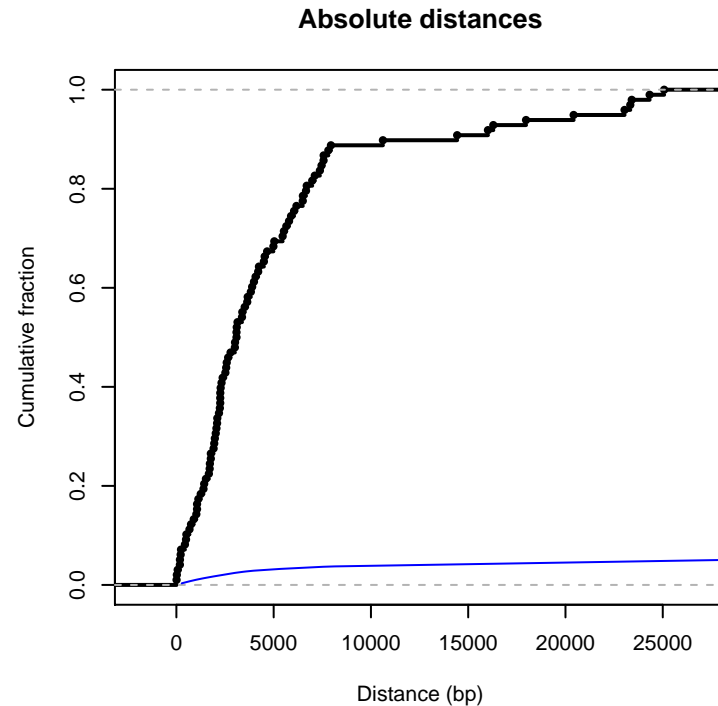
pcontig_110

Query population : 85
Reference population : 28
Relative Ks p-value : 0.186198
Relative ecdf deviation area : 0.0162934
Relative ecdf area correlation : -0.0293668
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 : 1.5403e-08
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.07211



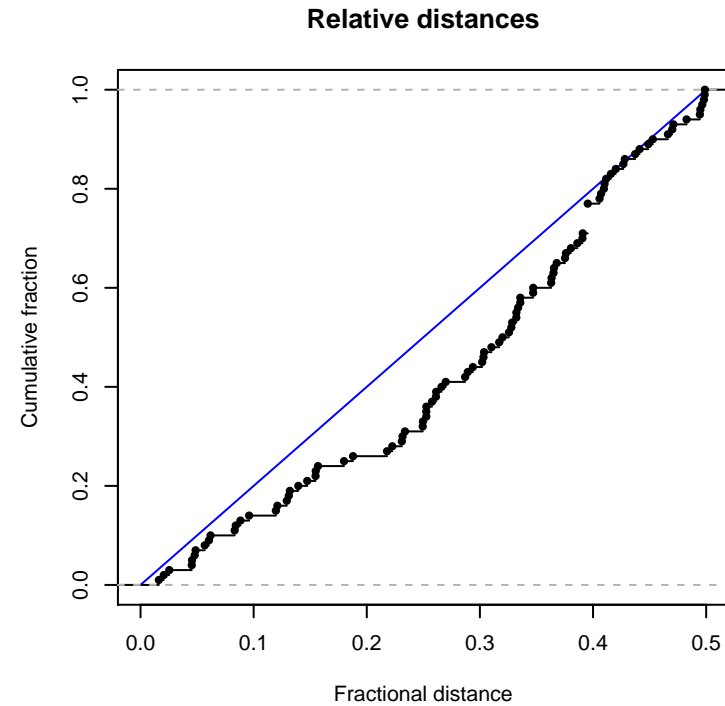
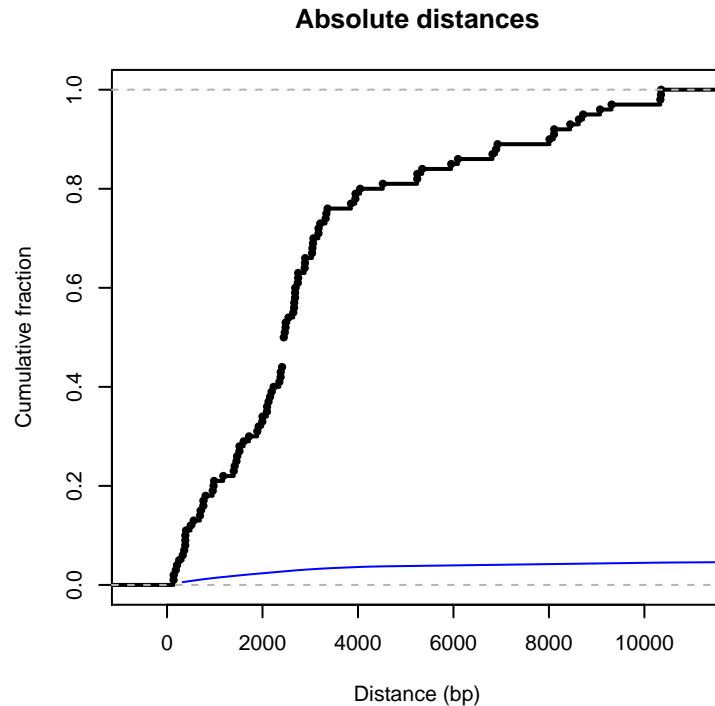
pcontig_112

Query population : 98
Reference population : 18
Relative Ks p-value : 0.000255001
Relative ecdf deviation area : 0.0338272
Relative ecdf area correlation : 0.123316
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 : 1.72024e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.8254



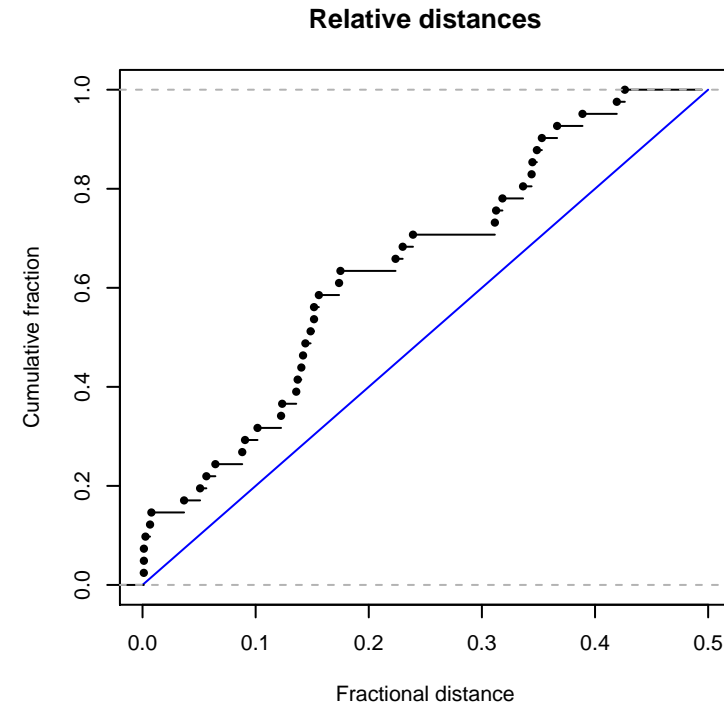
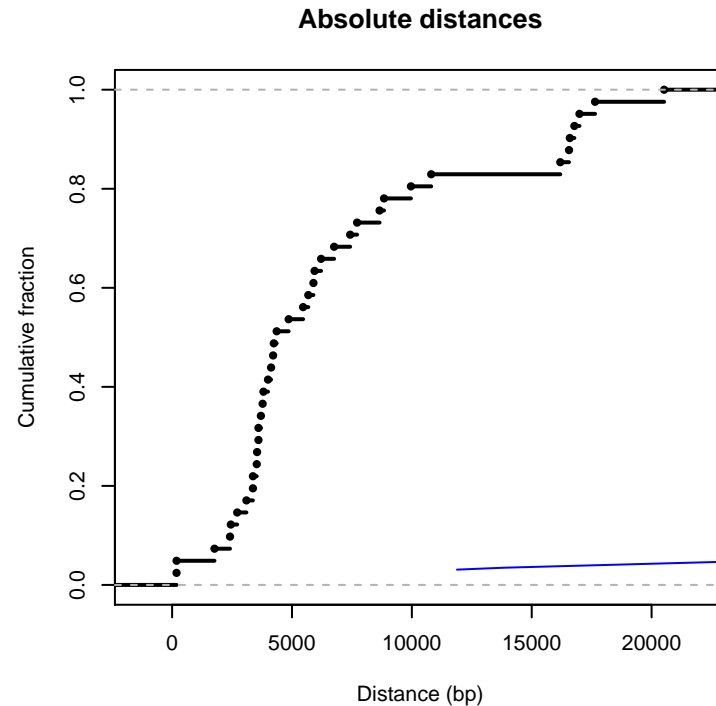
pcontig_115

Query population : 100
Reference population : 26
Relative Ks p-value : 0.00159113
Relative ecdf deviation area : 0.0419824
Relative ecdf area correlation : -0.167948
Relative ecdf deviation 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 : 9.0303e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 11.3307



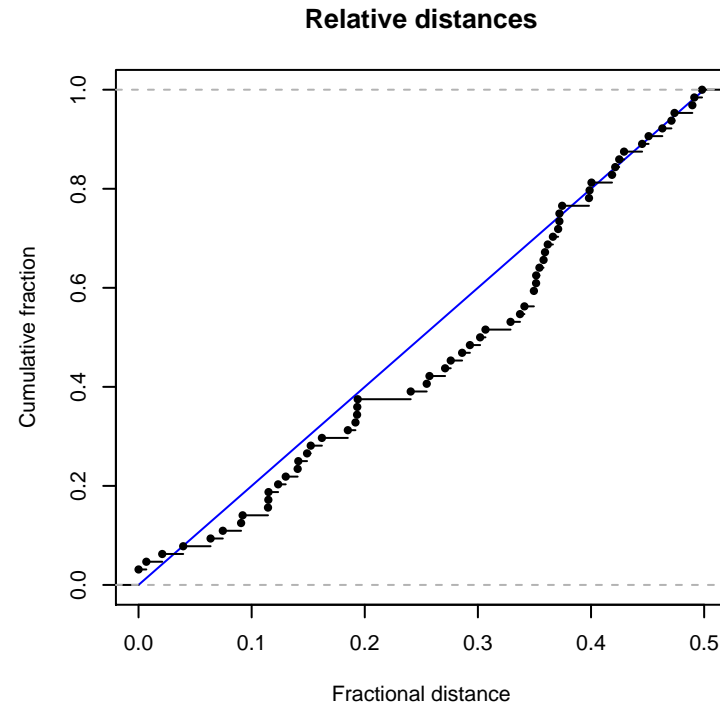
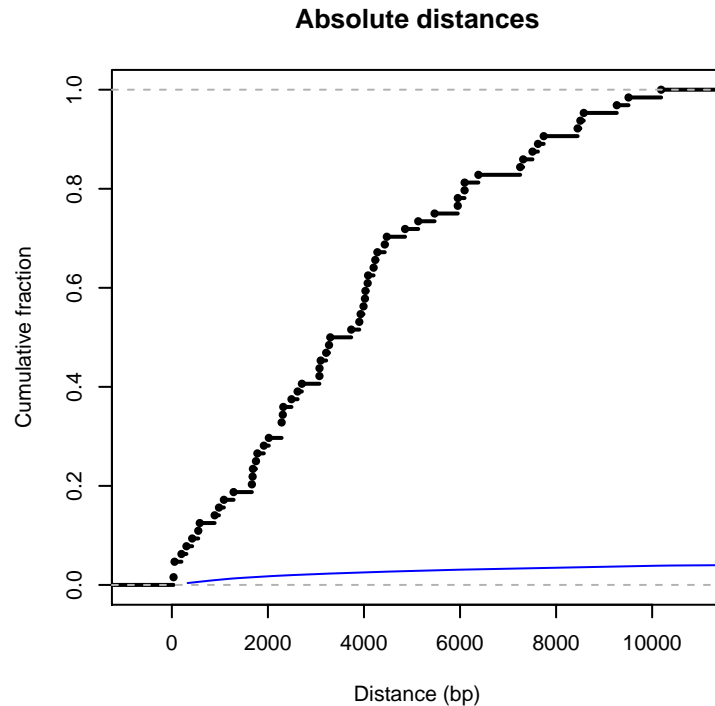
pcontig_118

Query population : 41
Reference population : 4
Relative Ks p-value : 0.00200316
Relative ecdf deviation area : 0.0699209
Relative ecdf area correlation : 0.280646
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.57983e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 42.3197



pcontig_120

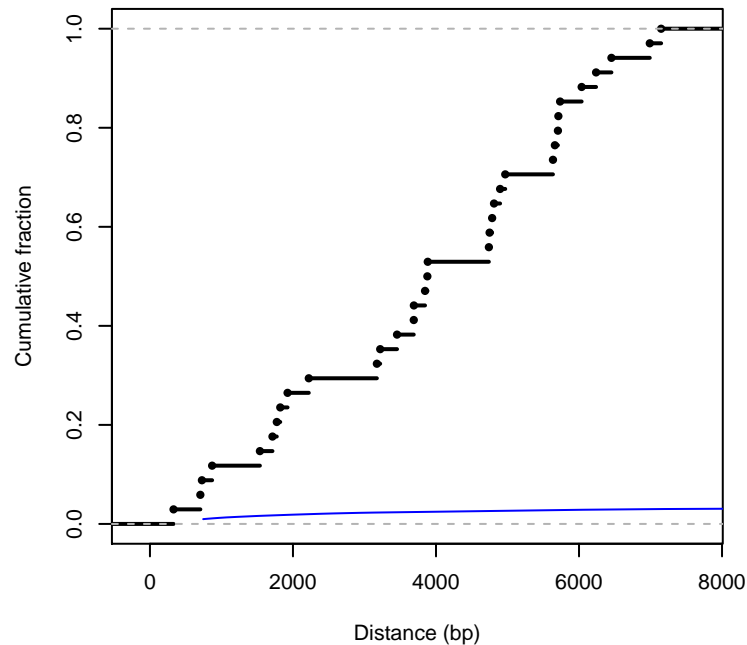
Query population : 64
Reference population : 18
Relative Ks p-value : 0.131118
Relative ecdf deviation area : 0.0252681
Relative ecdf area correlation : -0.0967776
Relative ecdf deviation area p-value : 0.19
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.62975e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.3128



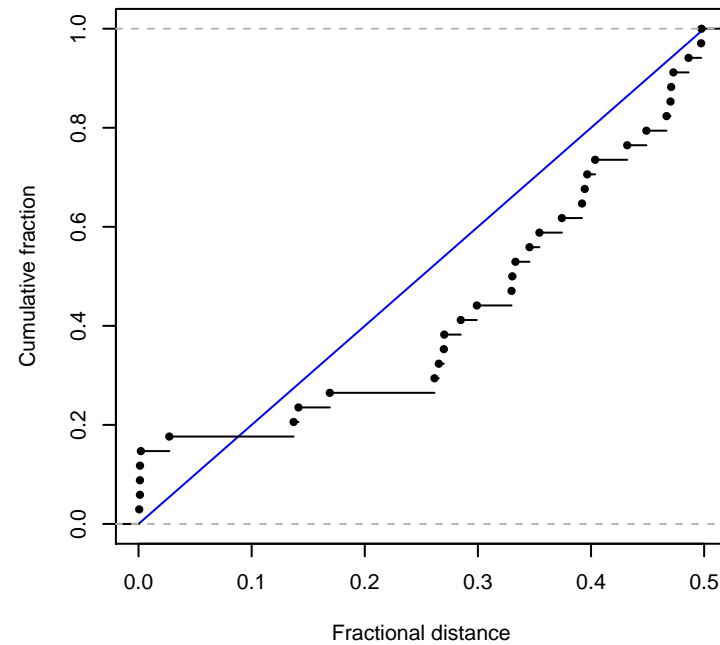
pcontig_129

Query population : 34
Reference population : 20
Relative Ks p-value : 0.0171585
Relative ecdf deviation area : 0.0583451
Relative ecdf area correlation : -0.179925
Relative ecdf deviation area p-value : <0.01
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 : 0.283757
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

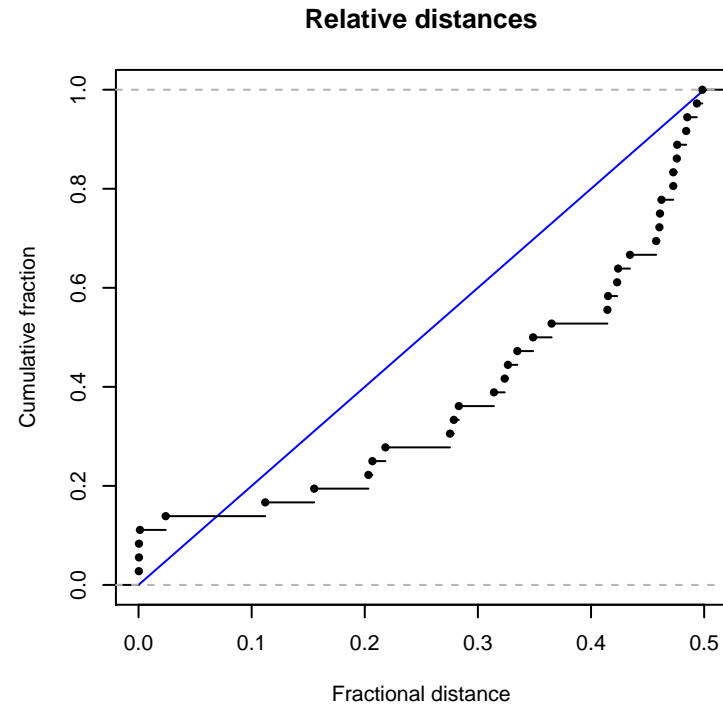
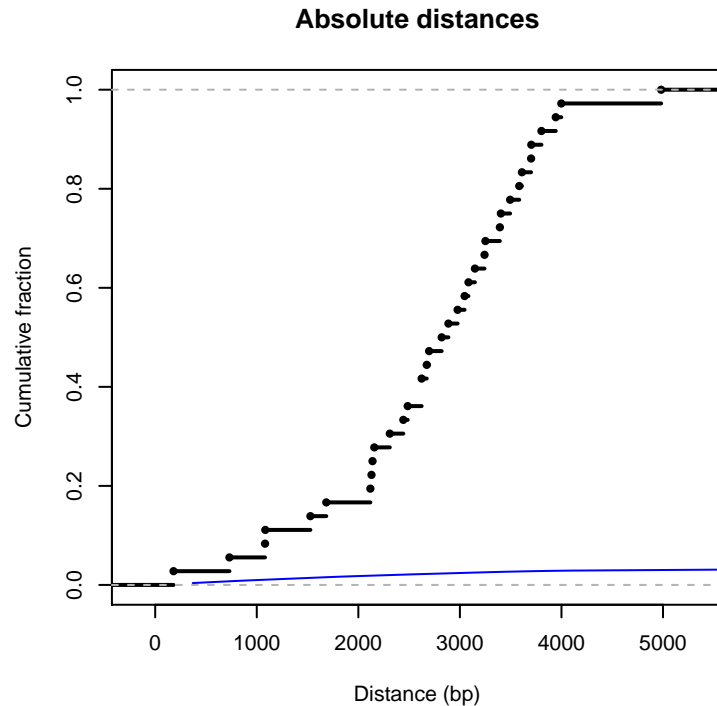


Relative distances



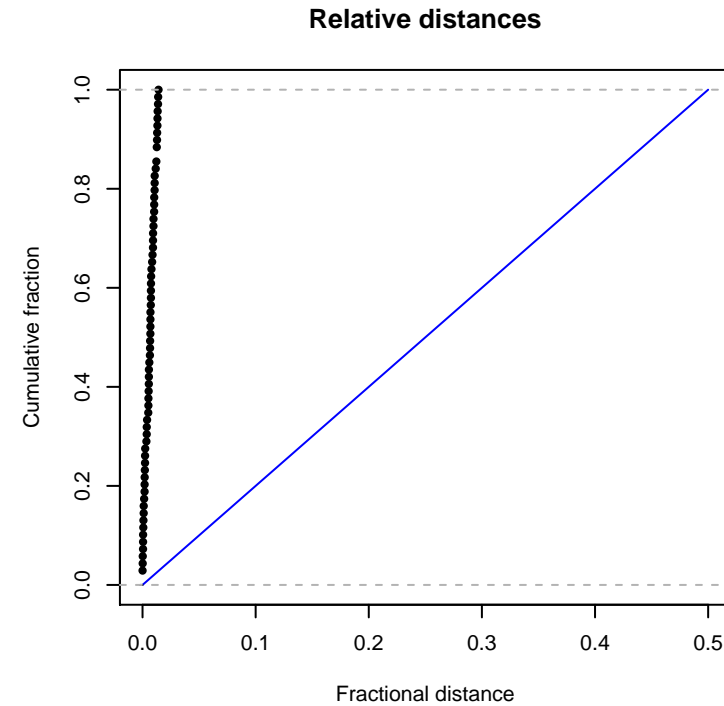
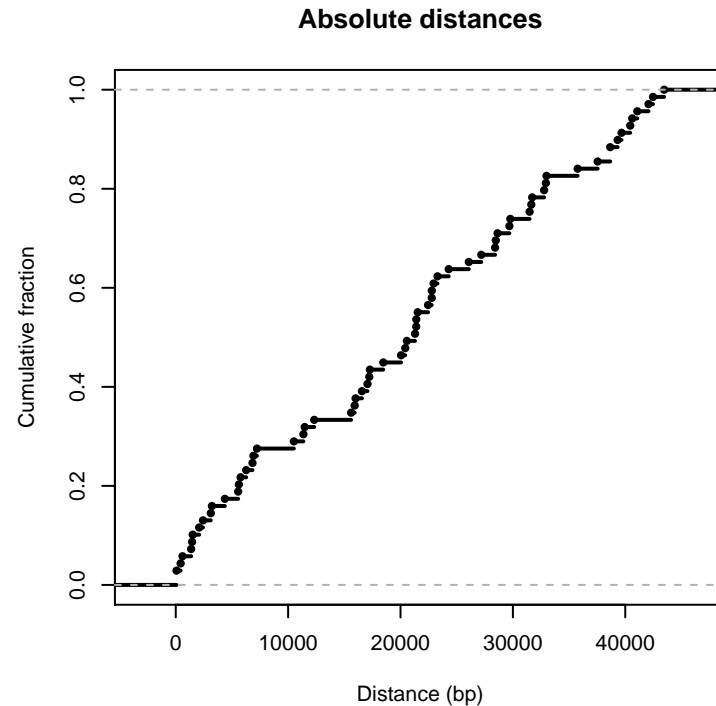
pcontig_130

Query population : 36
Reference population : 16
Relative Ks p-value : 0.00215878
Relative ecdf deviation area : 0.080268
Relative ecdf area correlation : -0.286995
Relative ecdf deviation 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 : 0.0399967
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.15847



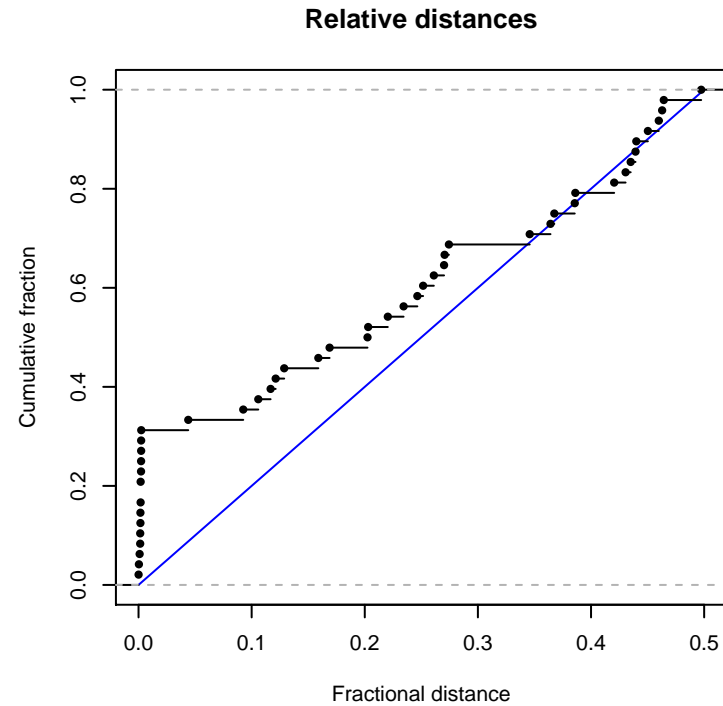
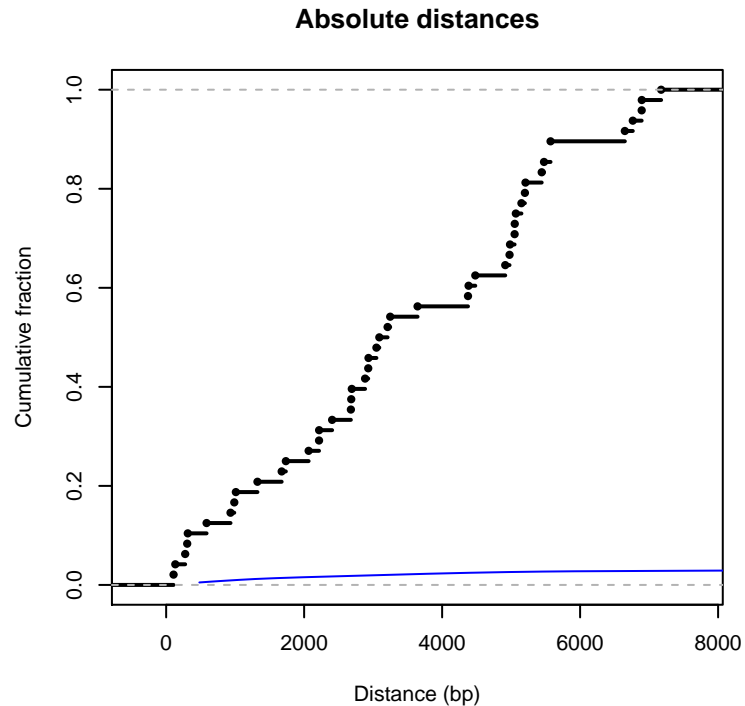
pcontig_134

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



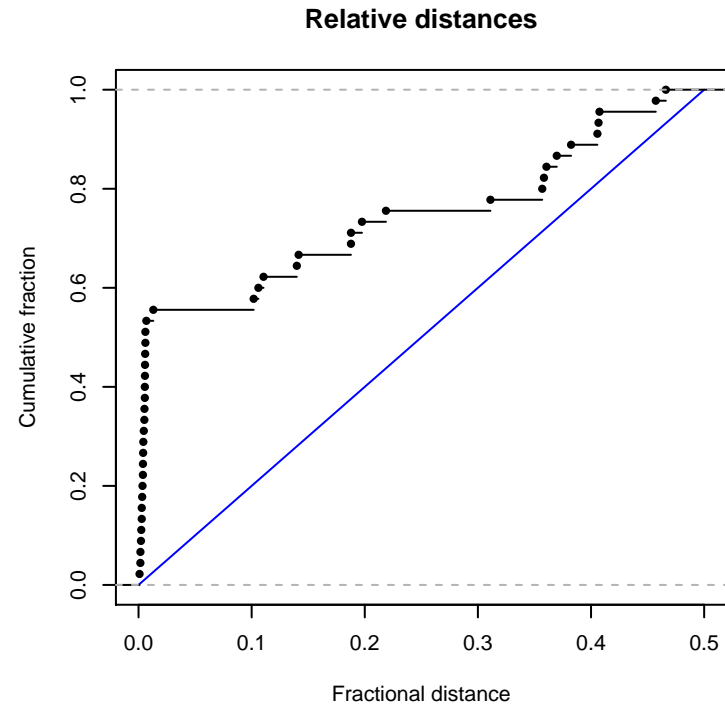
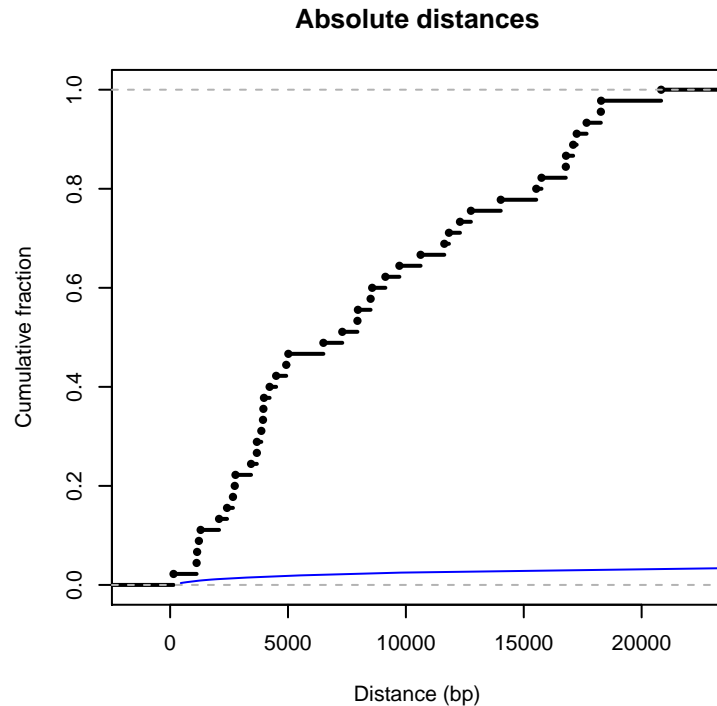
pcontig_138

Query population : 48
Reference population : 16
Relative Ks p-value : 0.000156102
Relative ecdf deviation area : 0.0504604
Relative ecdf area correlation : 0.187895
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000252006
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.85401



pcontig_139

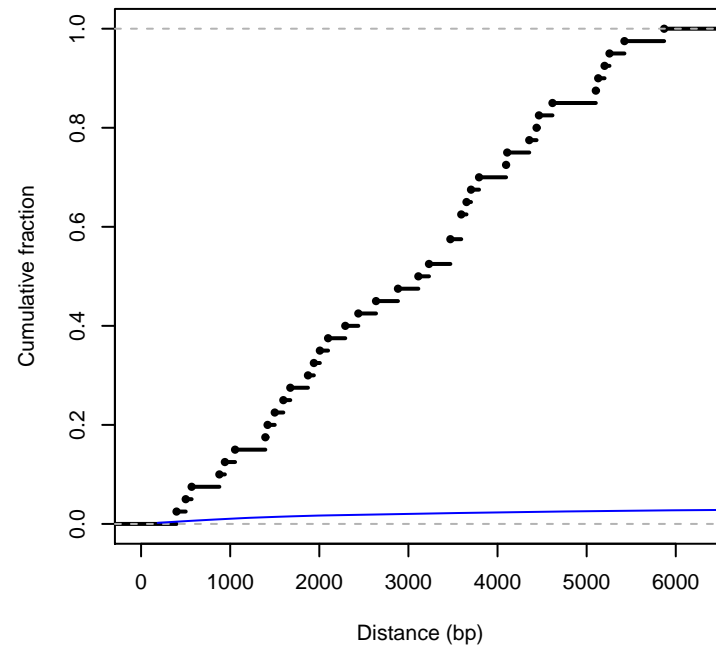
Query population : 45
Reference population : 13
Relative Ks p-value : 2.72615e-12
Relative ecdf deviation area : 0.121491
Relative ecdf area correlation : 0.485649
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.019141
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.72666



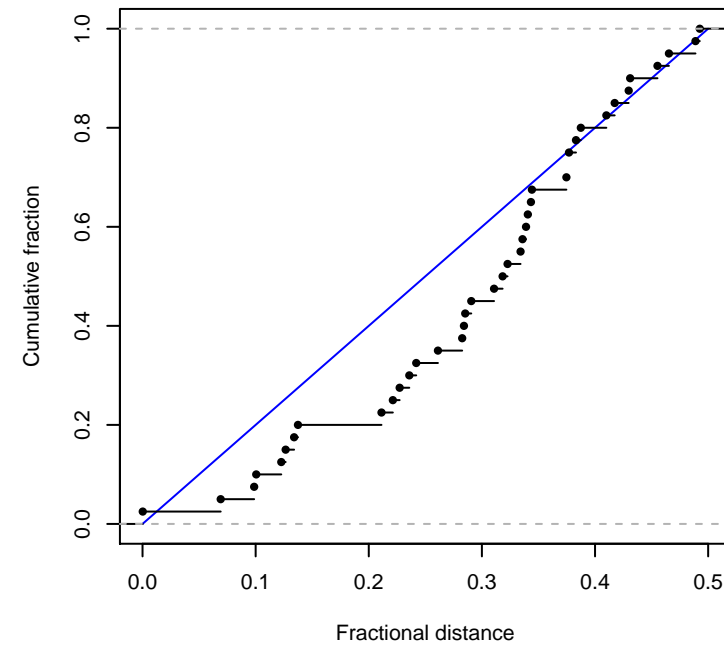
pcontig_140

Query population : 40
Reference population : 18
Relative Ks p-value : 0.0321027
Relative ecdf deviation area : 0.0468228
Relative ecdf area correlation : -0.18087
Relative ecdf deviation area p-value : 0.06000000000000001
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 : 0.022047
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.37632

Absolute distances

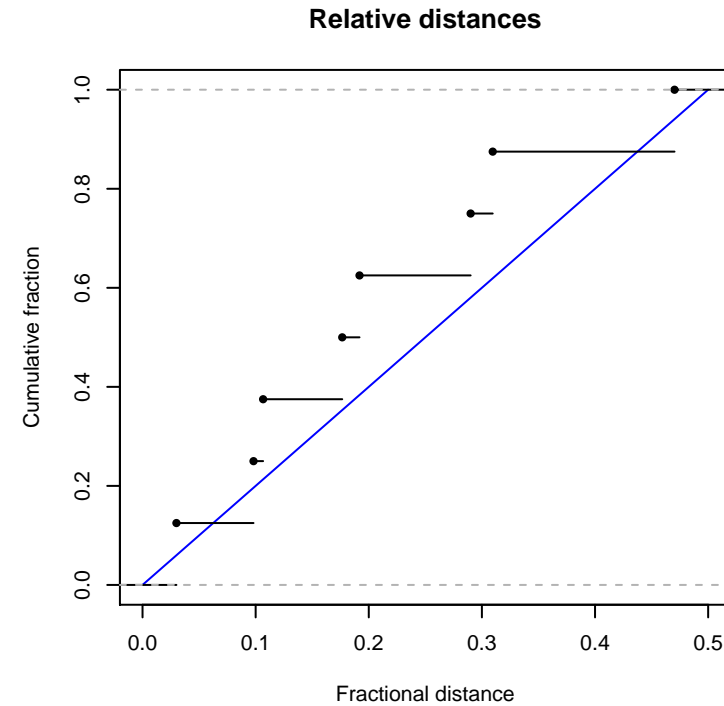
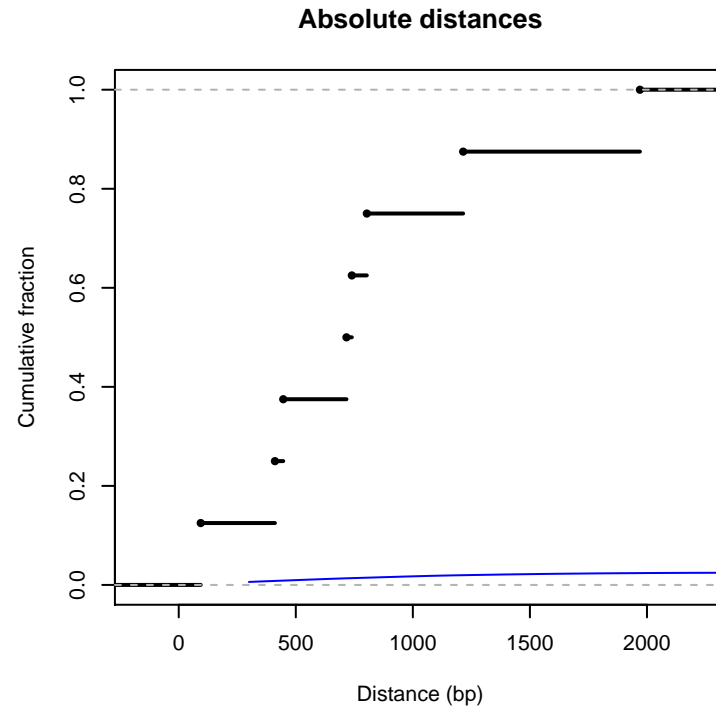


Relative distances



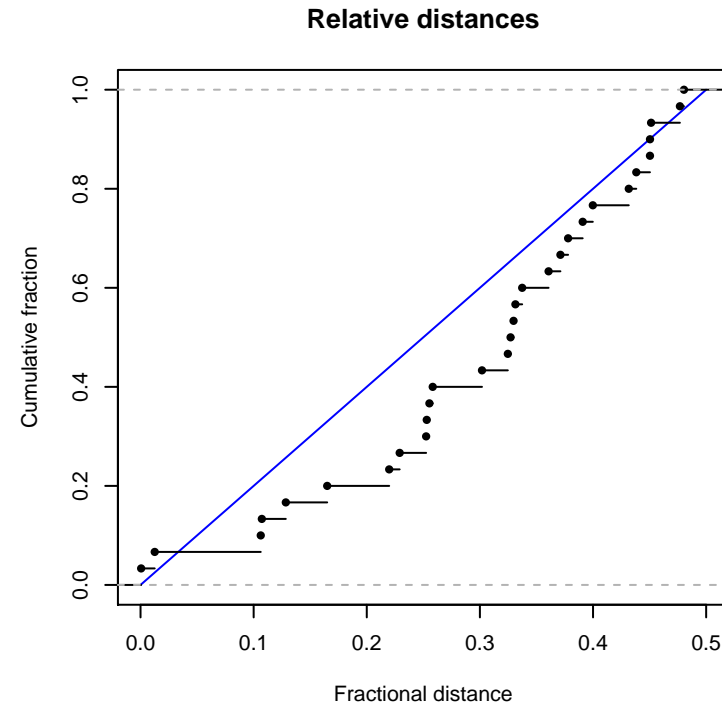
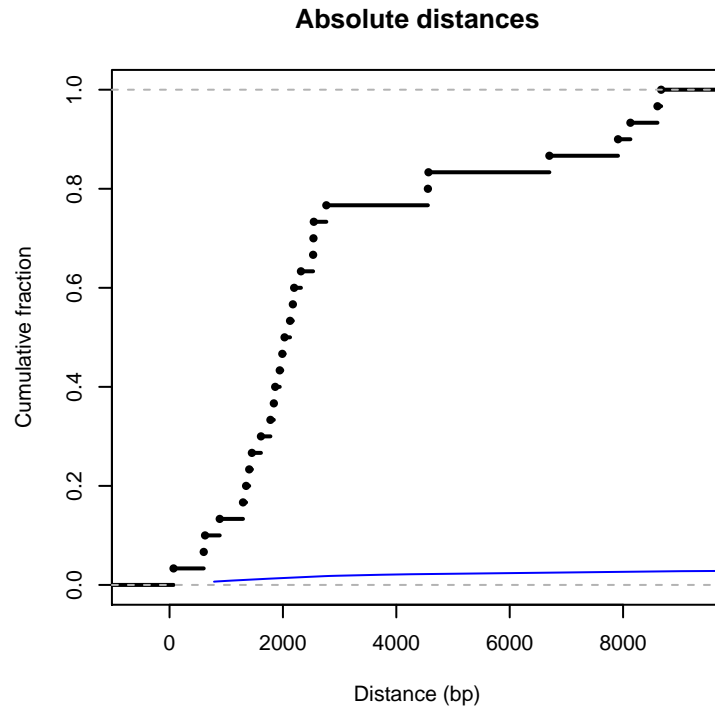
pcontig_146

Query population : 8
Reference population : 31
Relative Ks p-value : 0.585723
Relative ecdf deviation area : 0.0476673
Relative ecdf area correlation : 0.163544
Relative ecdf deviation area p-value : 0.56
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 : 0.00554533
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.62818



pcontig_147

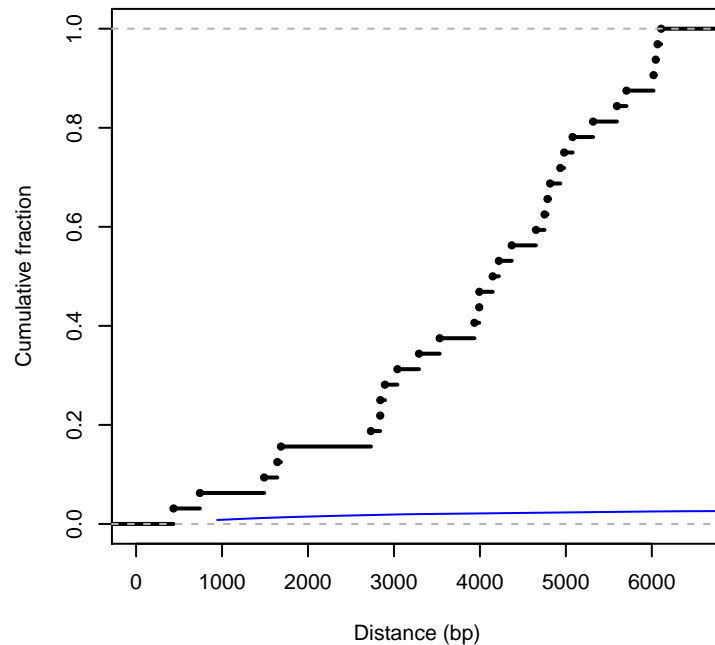
Query population : 30
Reference population : 13
Relative Ks p-value : 0.0531798
Relative ecdf deviation area : 0.0530684
Relative ecdf area correlation : -0.202641
Relative ecdf deviation area p-value : 0.03
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 7.59487e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.5548



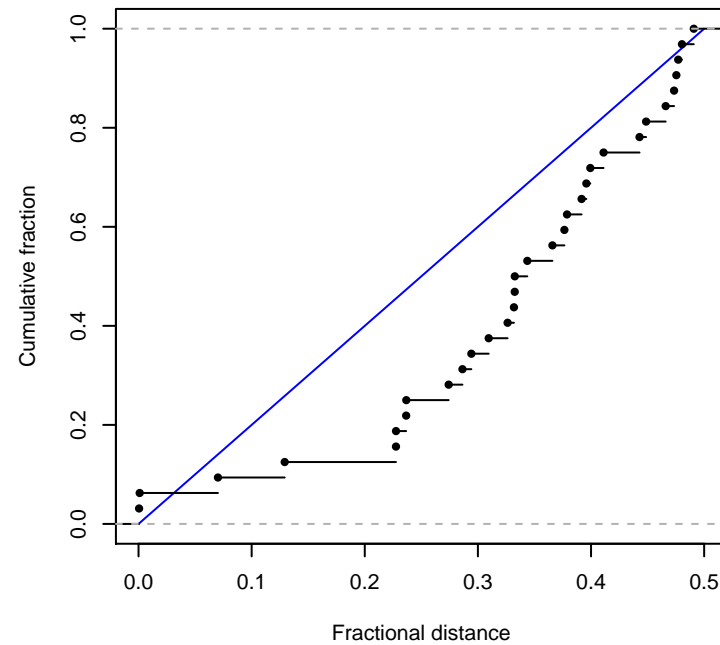
pcontig_148

Query population : 32
Reference population : 13
Relative Ks p-value : 0.00130932
Relative ecdf deviation area : 0.0780357
Relative ecdf area correlation : -0.304301
Relative ecdf deviation 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 : 0.038164
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.2375

Absolute distances

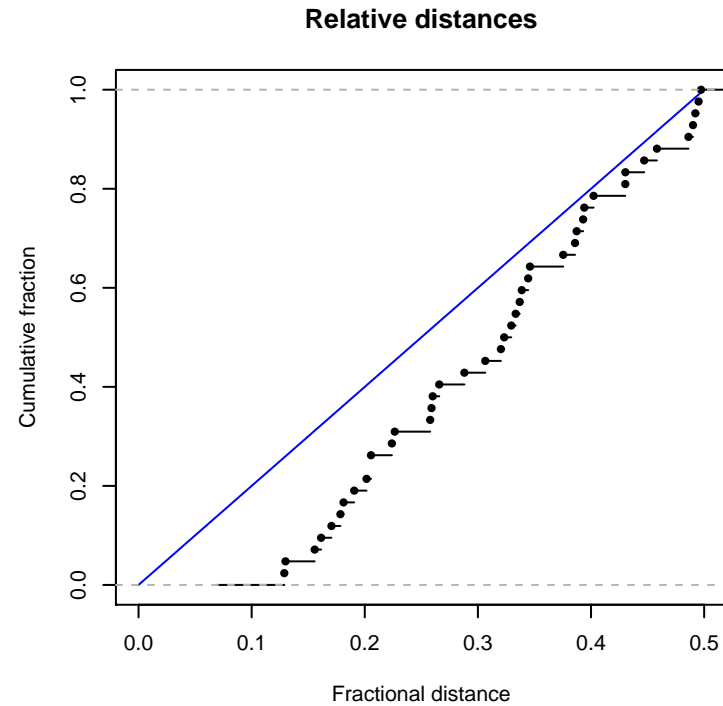
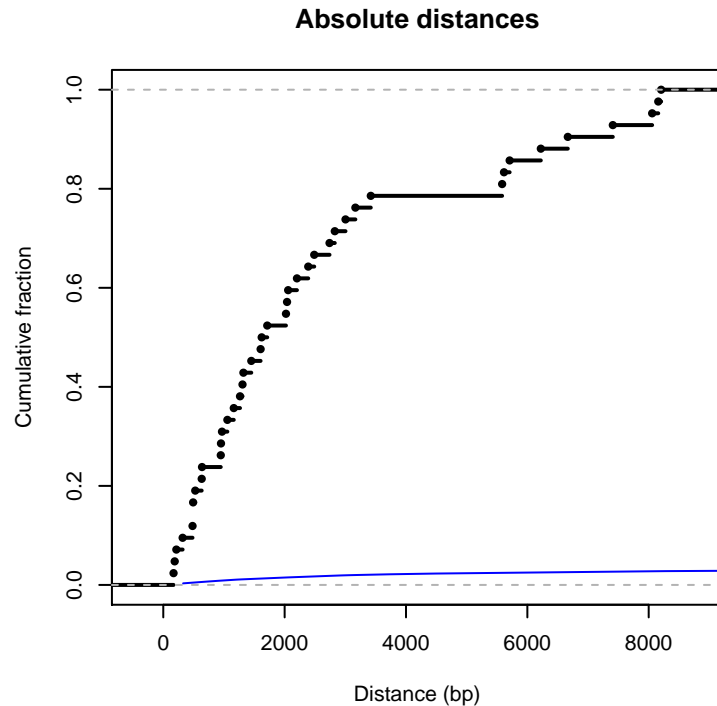


Relative distances



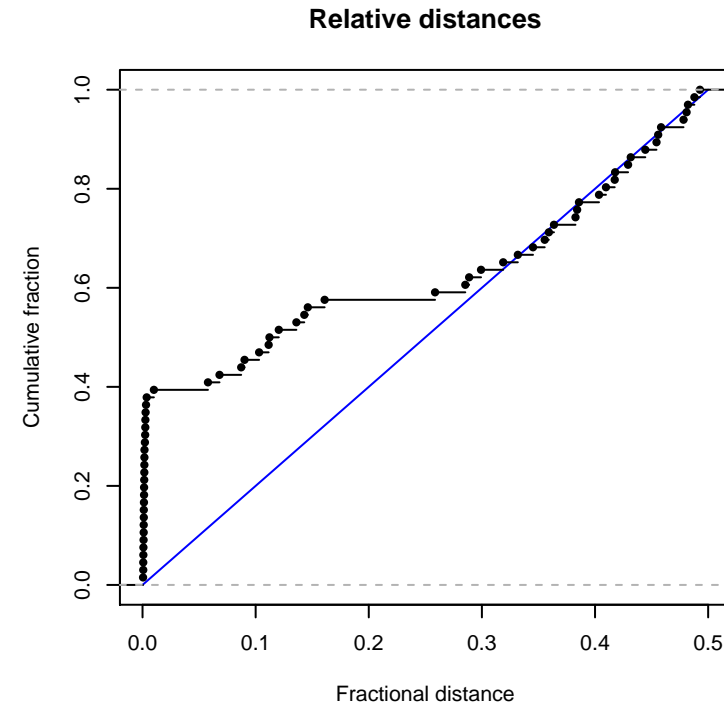
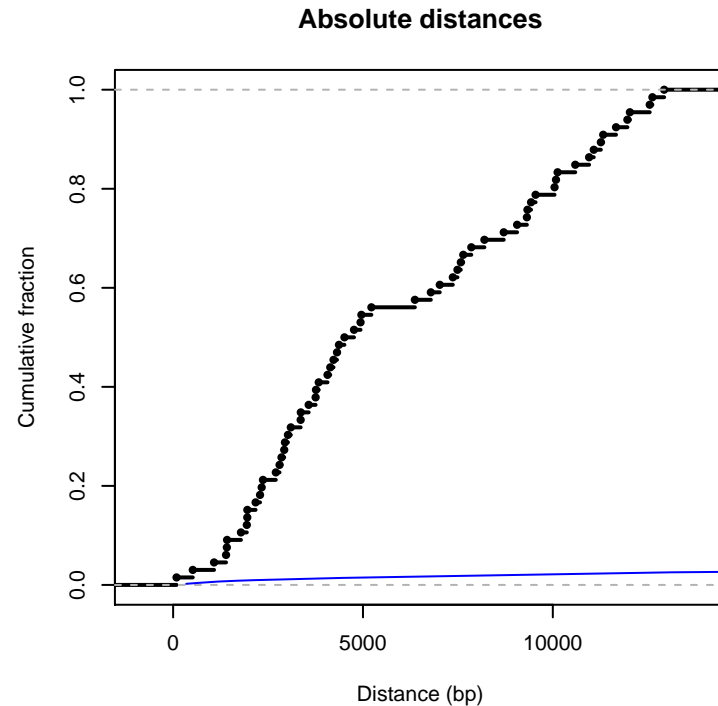
pcontig_149

Query population : 42
Reference population : 15
Relative Ks p-value : 0.00454535
Relative ecdf deviation area : 0.0653293
Relative ecdf area correlation : -0.260408
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000116892
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.0105



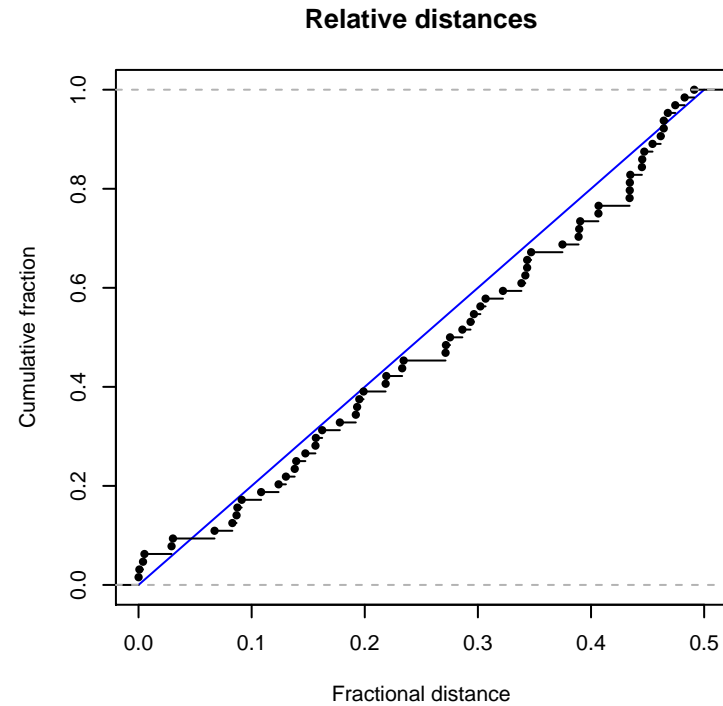
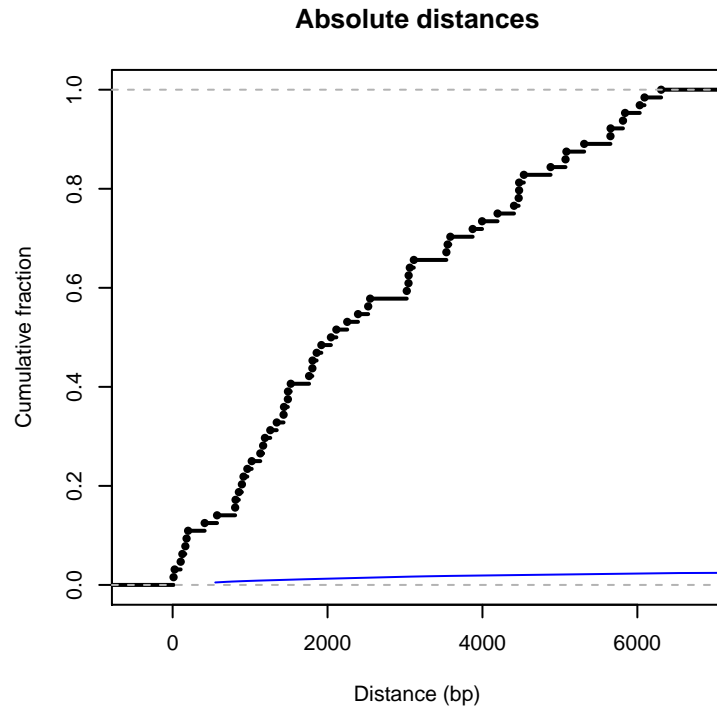
pcontig_150

Query population : 66
Reference population : 10
Relative Ks p-value : 8.64004e-09
Relative ecdf deviation area : 0.0658589
Relative ecdf area correlation : 0.243103
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0171925
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.02035



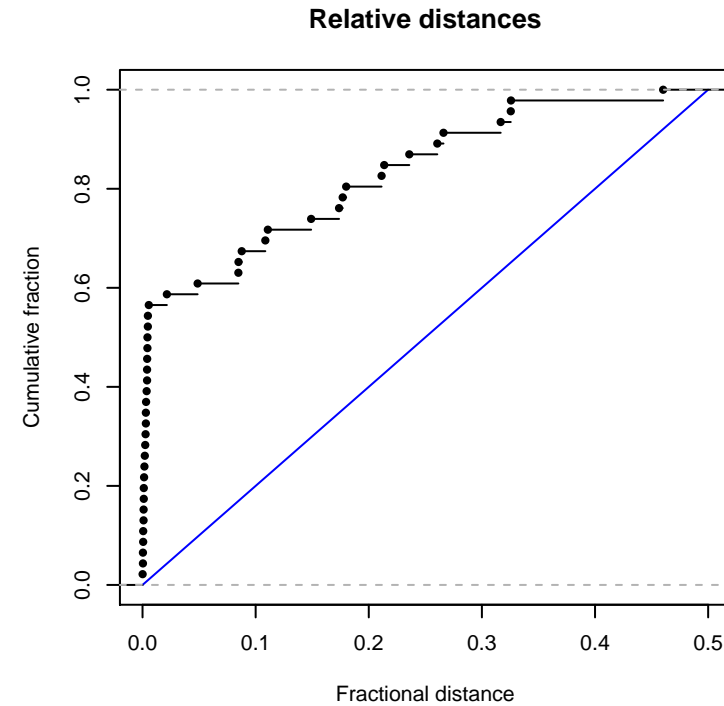
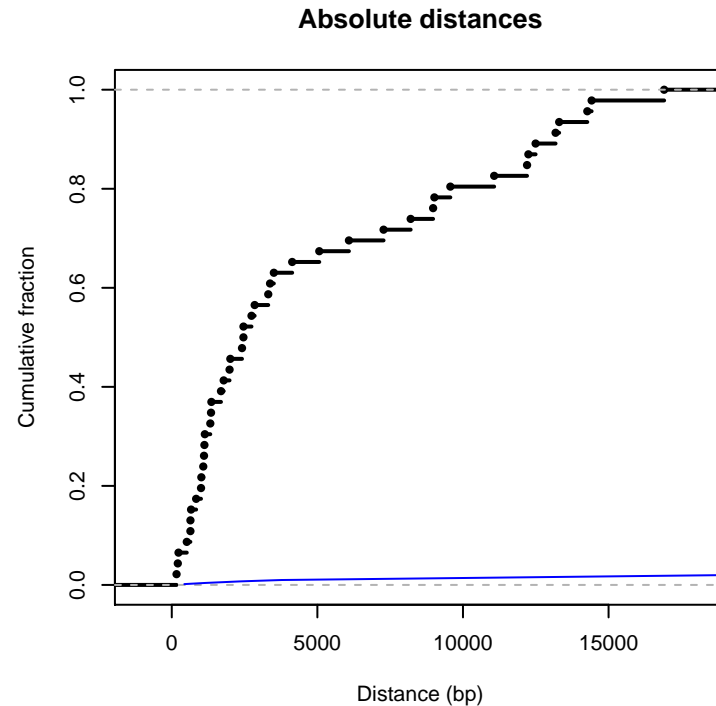
pcontig_152

Query population : 64
Reference population : 14
Relative Ks p-value : 0.479973
Relative ecdf deviation area : 0.0200979
Relative ecdf area correlation : -0.071444
Relative ecdf deviation area p-value : 0.4
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 : 2.38827e-11
Projection test lower tail : FALSE
Projection test observed to expected ratio : 26.6632



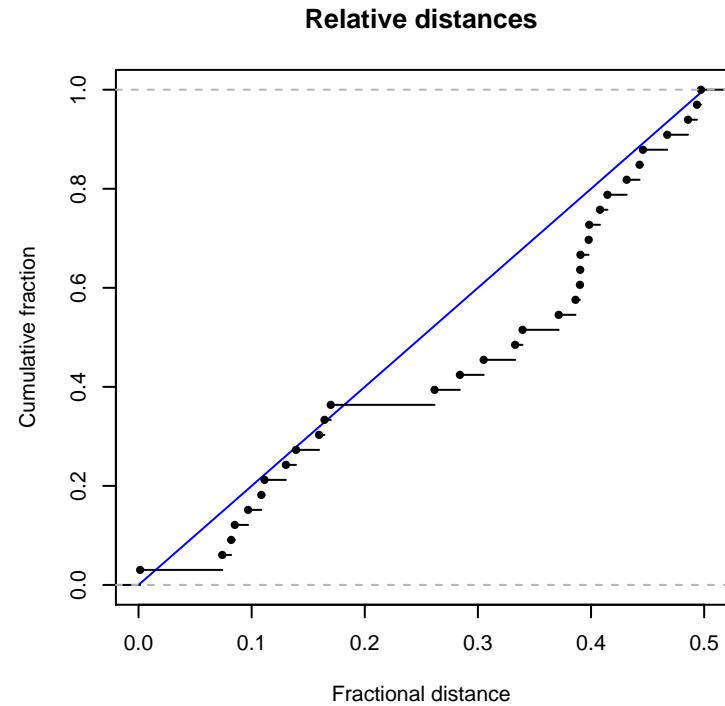
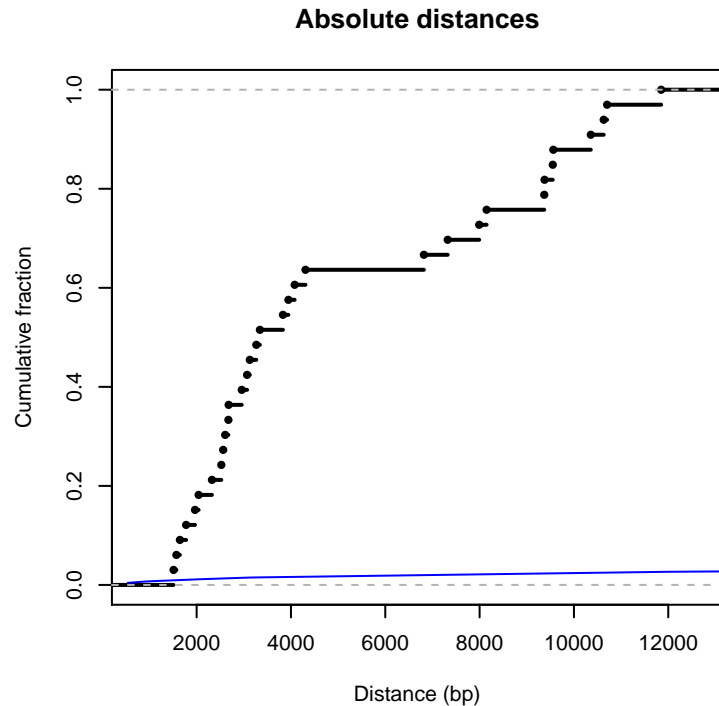
pcontig_154

Query population : 46
Reference population : 6
Relative Ks p-value : $8.17124e-14$
Relative ecdf deviation area : 0.165399
Relative ecdf area correlation : 0.660307
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : $4.81523e-05$
Projection test lower tail : FALSE
Projection test observed to expected ratio : 29.1202



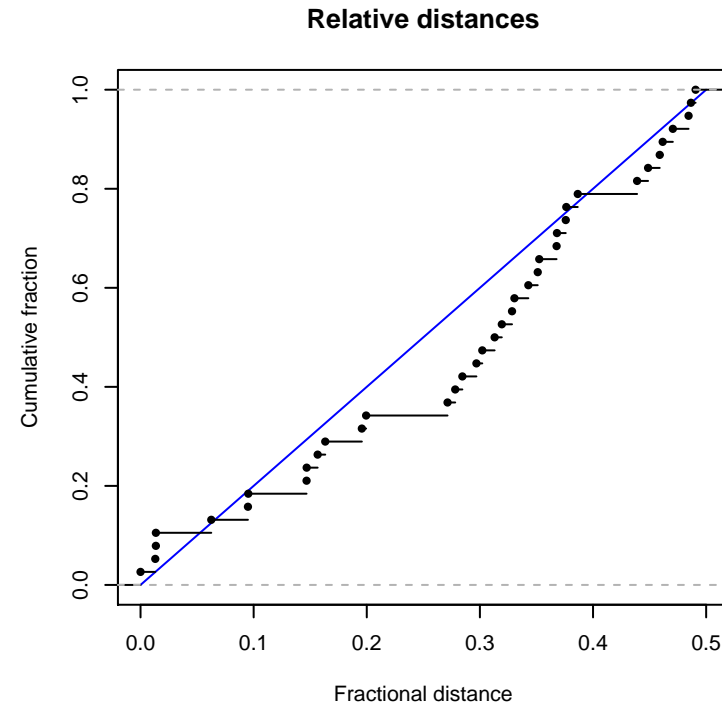
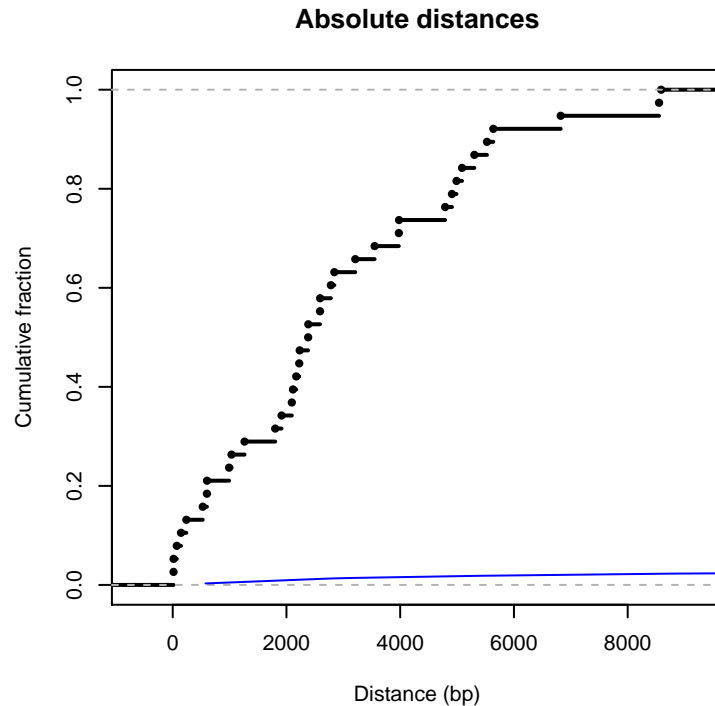
pcontig_157

Query population : 33
Reference population : 12
Relative Ks p-value : 0.0551329
Relative ecdf deviation area : 0.0434049
Relative ecdf area correlation : -0.17065
Relative ecdf deviation area p-value : 0.03
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.145252
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



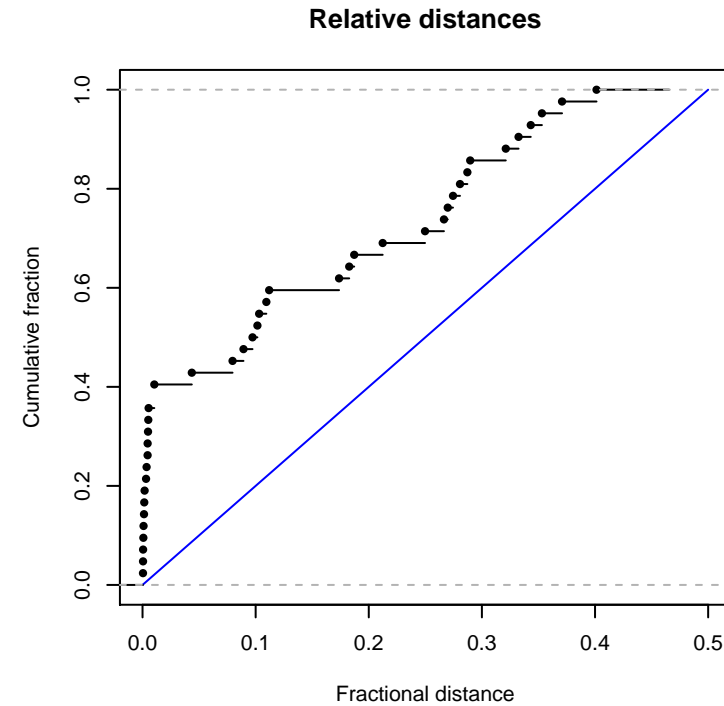
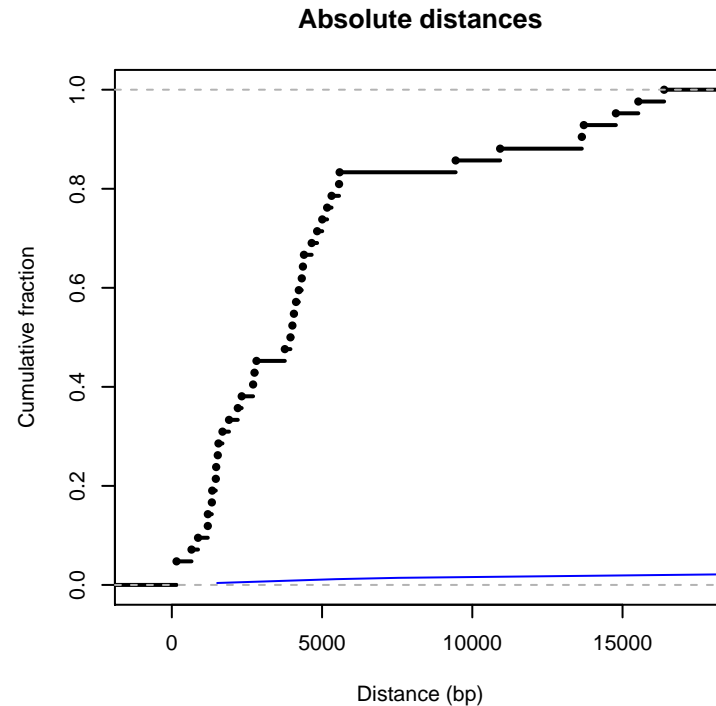
pcontig_163

Query population : 38
Reference population : 8
Relative Ks p-value : 0.0811111
Relative ecdf deviation area : 0.0352078
Relative ecdf area correlation : -0.124983
Relative ecdf deviation area p-value : 0.16
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 : 9.27012e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 22.8014



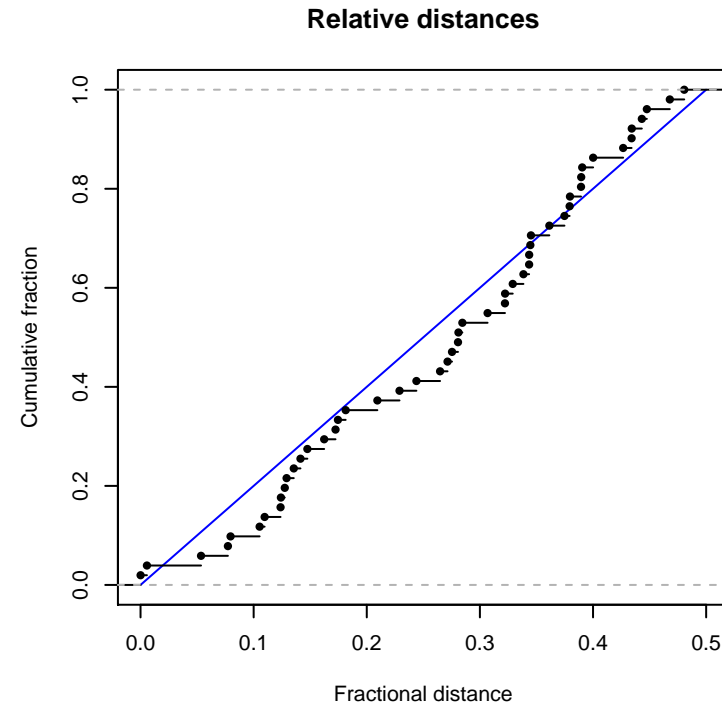
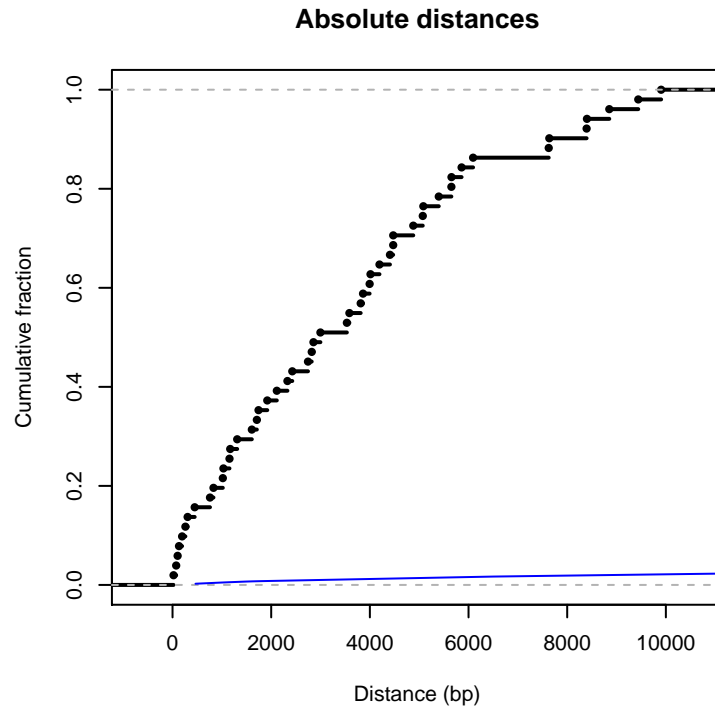
pcontig_164

Query population : 42
Reference population : 4
Relative Ks p-value : 4.44265e-06
Relative ecdf deviation area : 0.117311
Relative ecdf area correlation : 0.46754
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.03683e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 66.9997



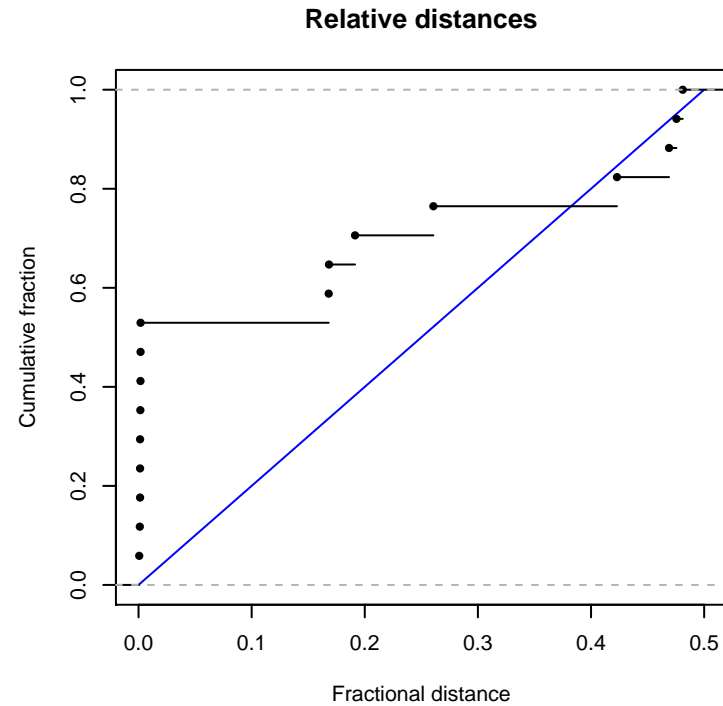
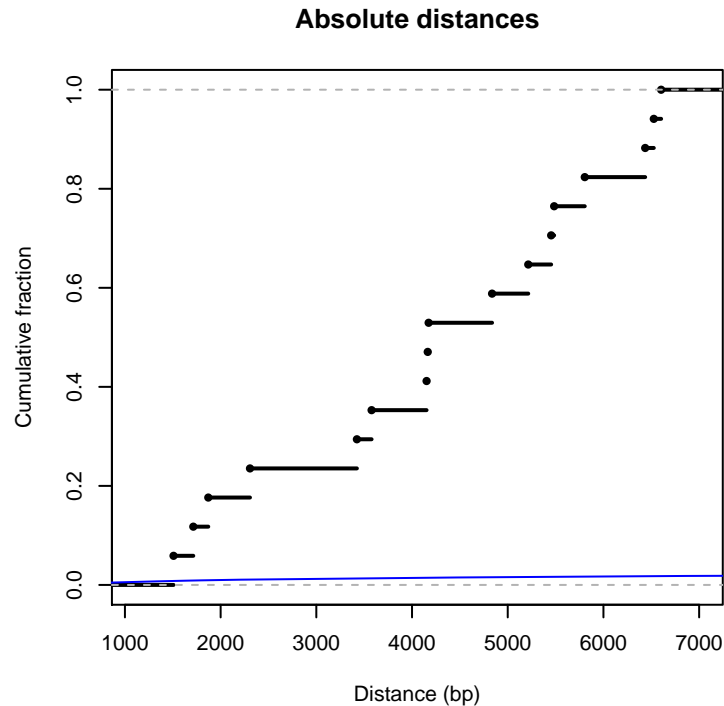
pcontig_165

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



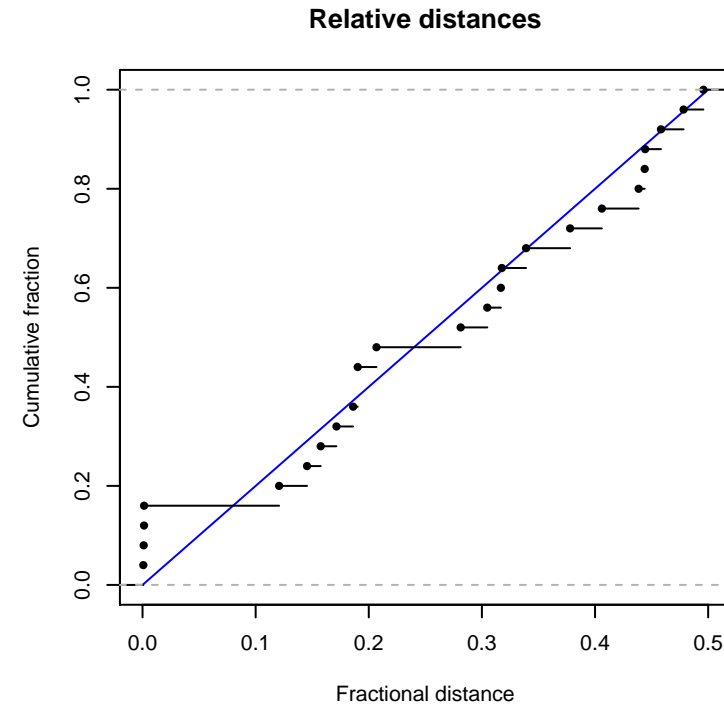
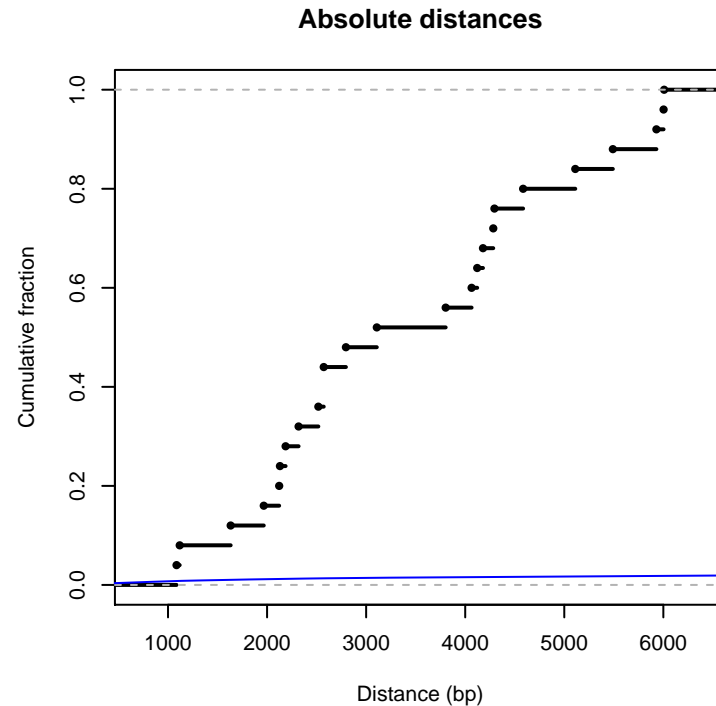
pcontig_166

Query population : 17
Reference population : 9
Relative Ks p-value : 6.61527e-05
Relative ecdf deviation area : 0.104965
Relative ecdf area correlation : 0.376514
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.17
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0921433
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



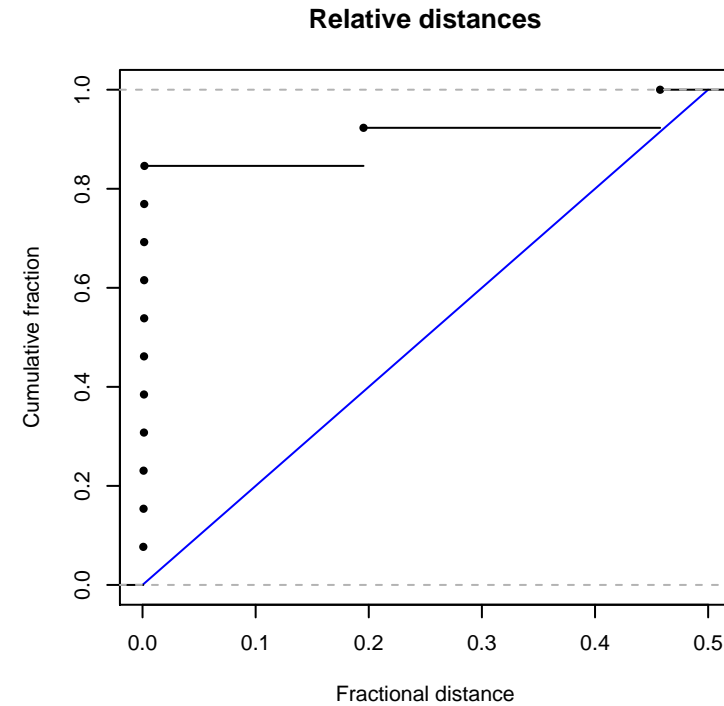
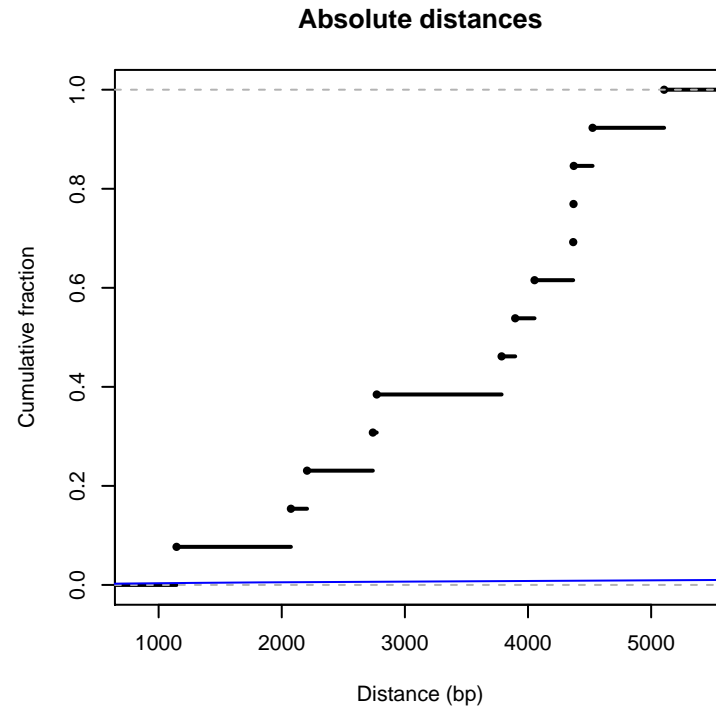
pcontig_170

Query population : 25
Reference population : 13
Relative Ks p-value : 0.51645
Relative ecdf deviation area : 0.0246719
Relative ecdf area correlation : -0.0360836
Relative ecdf deviation area p-value : 0.6
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 : 0.0895365
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



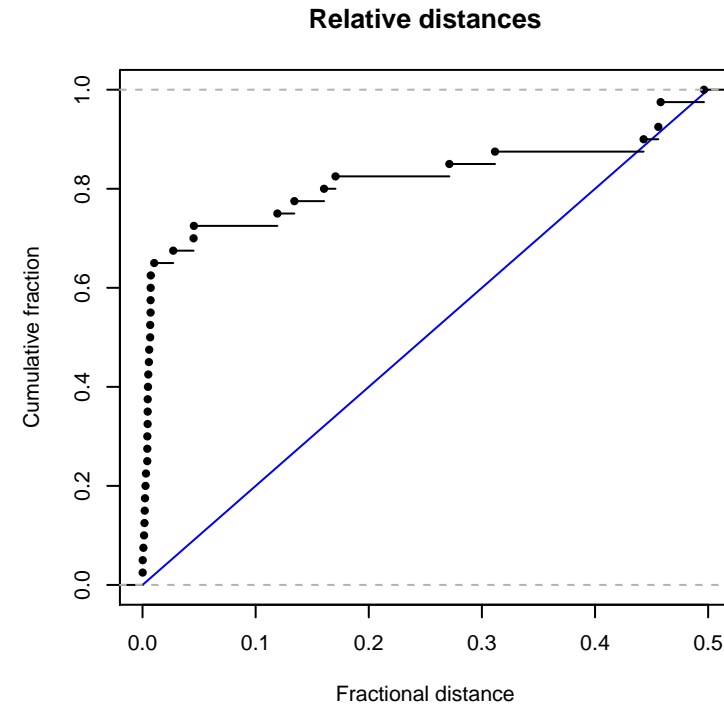
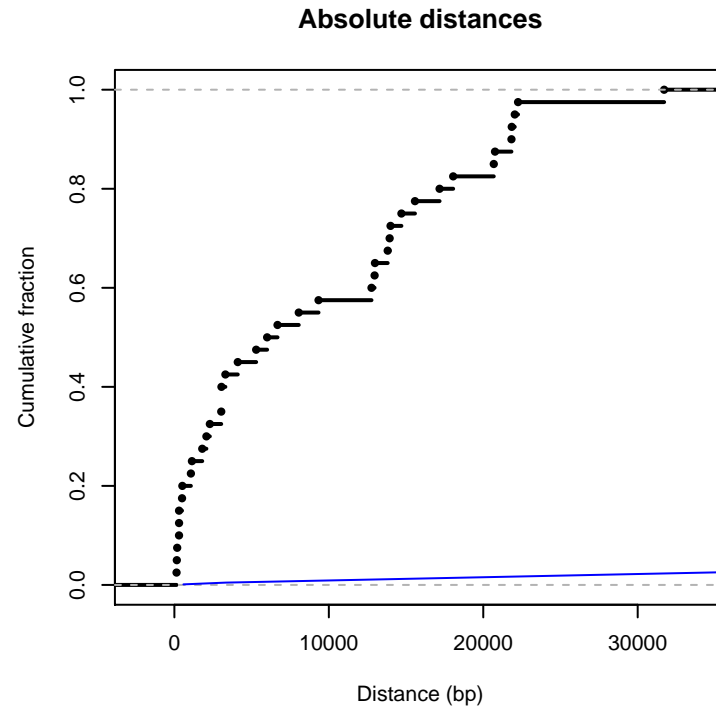
pcontig_171

Query population : 13
Reference population : 7
Relative Ks p-value : 7.31123e-11
Relative ecdf deviation area : 0.198946
Relative ecdf area correlation : 0.794866
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0279027
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



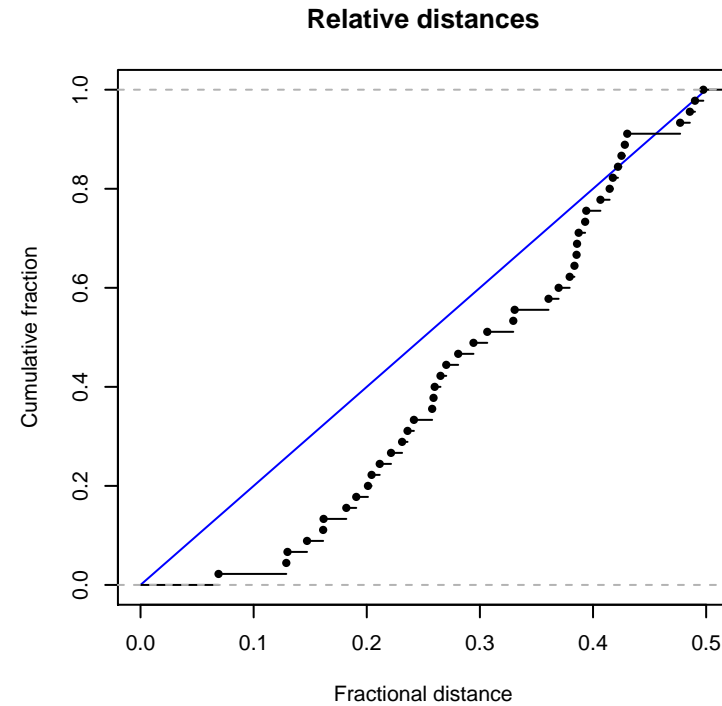
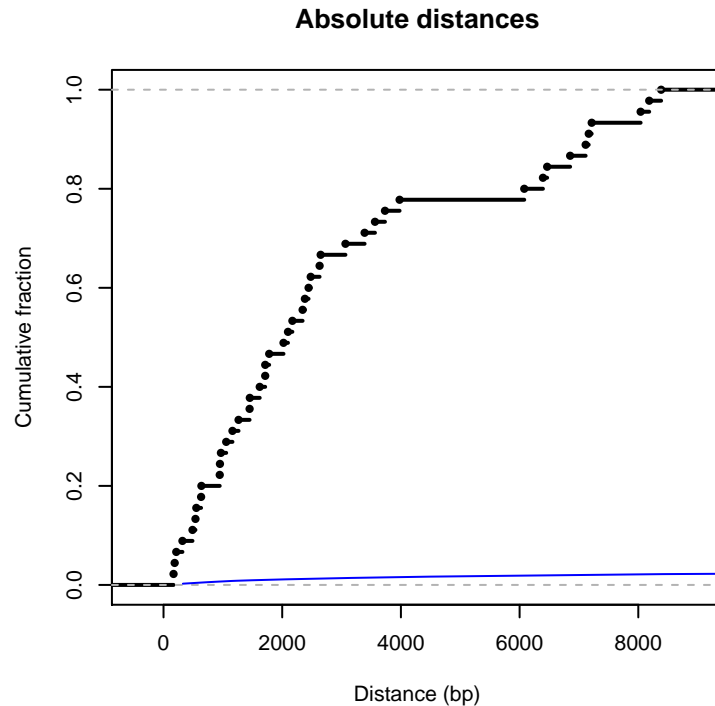
pcontig_172

Query population : 40
Reference population : 3
Relative Ks p-value : 0
Relative ecdf deviation area : 0.157539
Relative ecdf area correlation : 0.628978
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.87421e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 80.5261



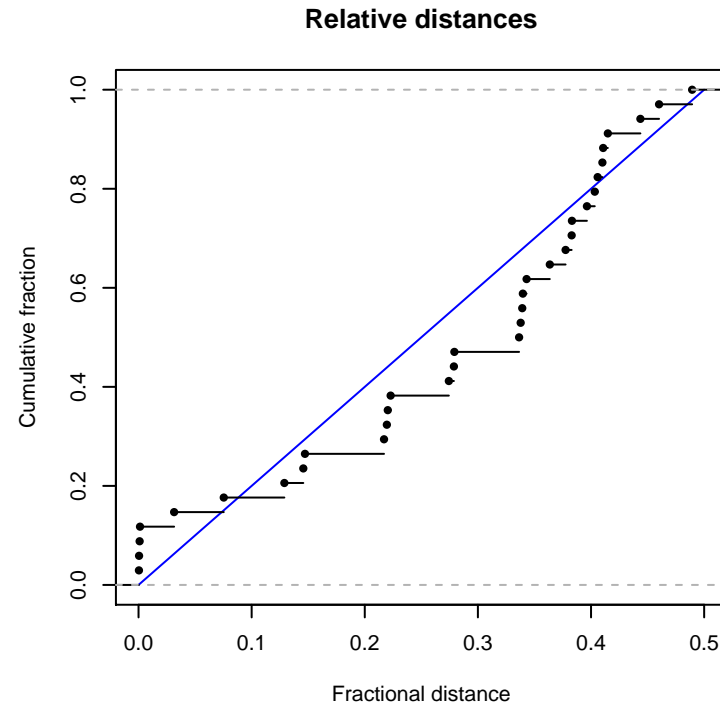
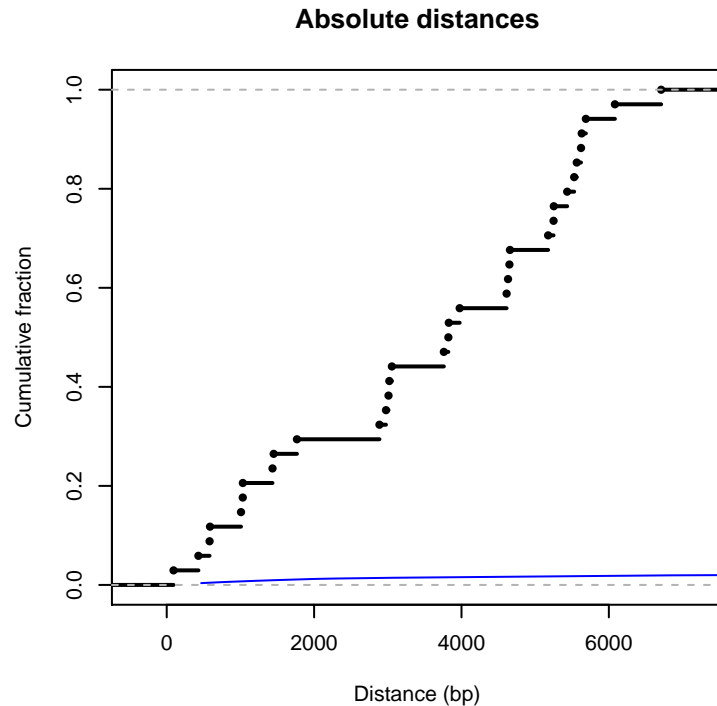
pcontig_173

Query population : 45
Reference population : 12
Relative Ks p-value : 0.0111637
Relative ecdf deviation area : 0.0604534
Relative ecdf area correlation : -0.236049
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.14849e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 16.9304



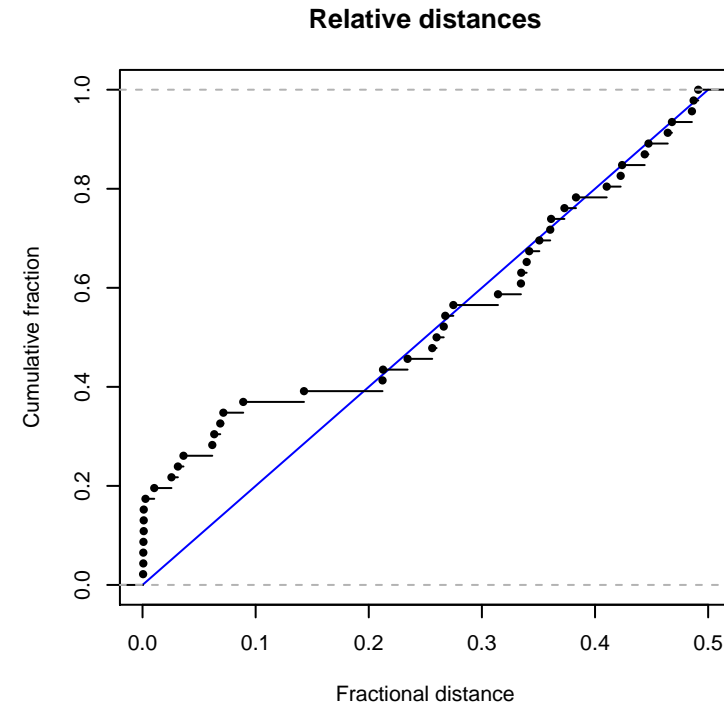
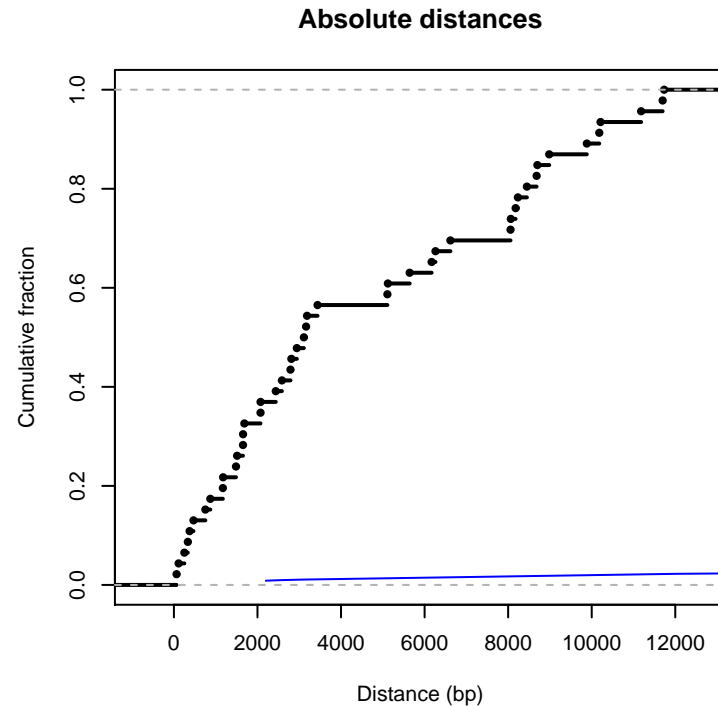
pcontig_174

Query population : 34
Reference population : 12
Relative Ks p-value : 0.107316
Relative ecdf deviation area : 0.03847
Relative ecdf area correlation : -0.0919127
Relative ecdf deviation area p-value : 0.18
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00177042
Projection test lower tail : FALSE
Projection test observed to expected ratio : 8.36065



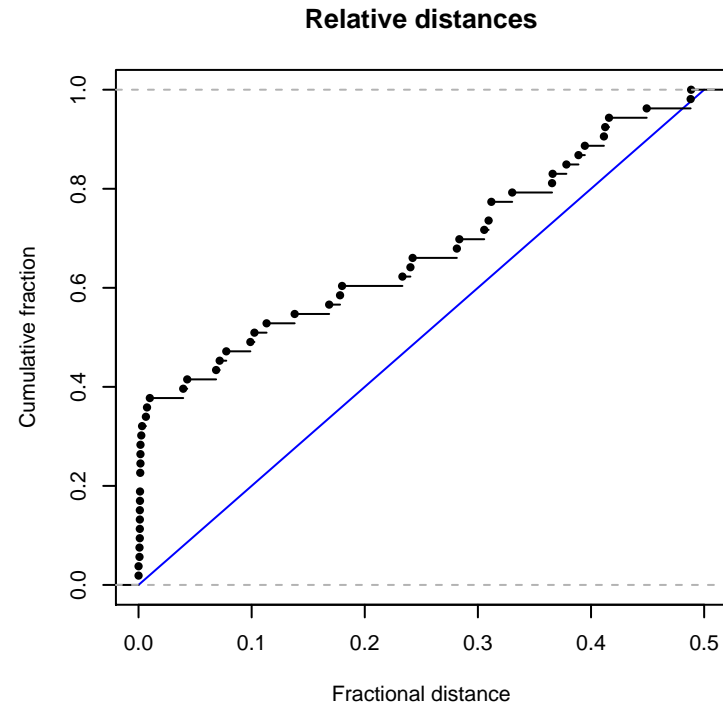
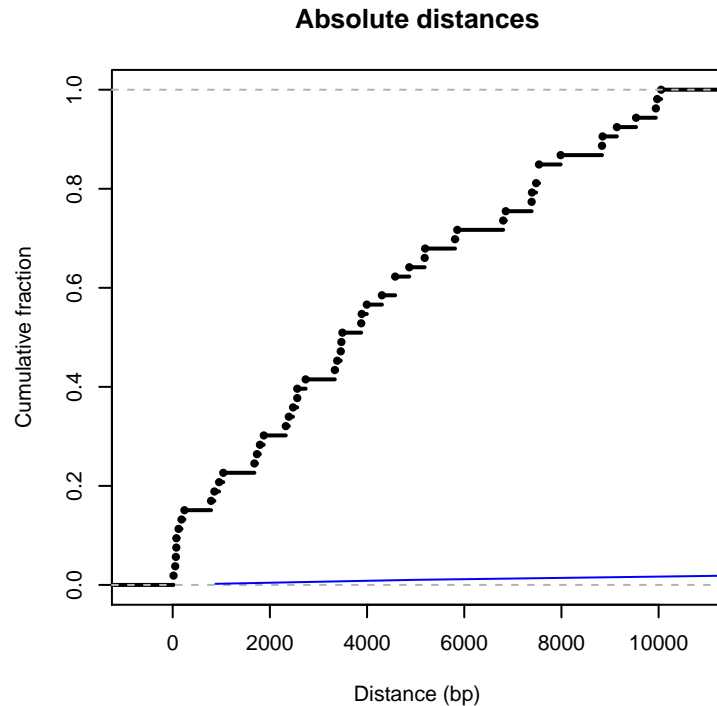
pcontig_176

Query population : 46
Reference population : 6
Relative Ks p-value : 0.0359444
Relative ecdf deviation area : 0.0319994
Relative ecdf area correlation : 0.0756
Relative ecdf deviation area p-value : 0.11
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 : 1.15966e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 21.9833



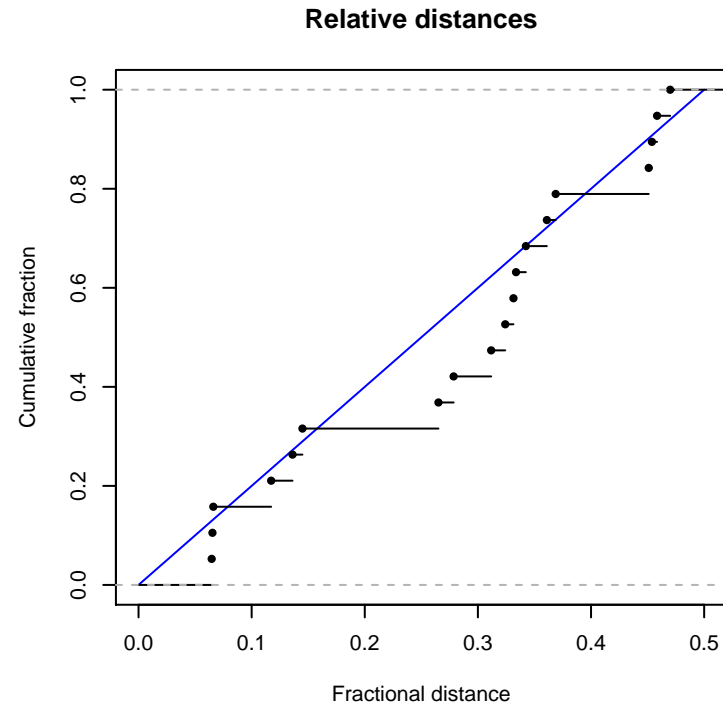
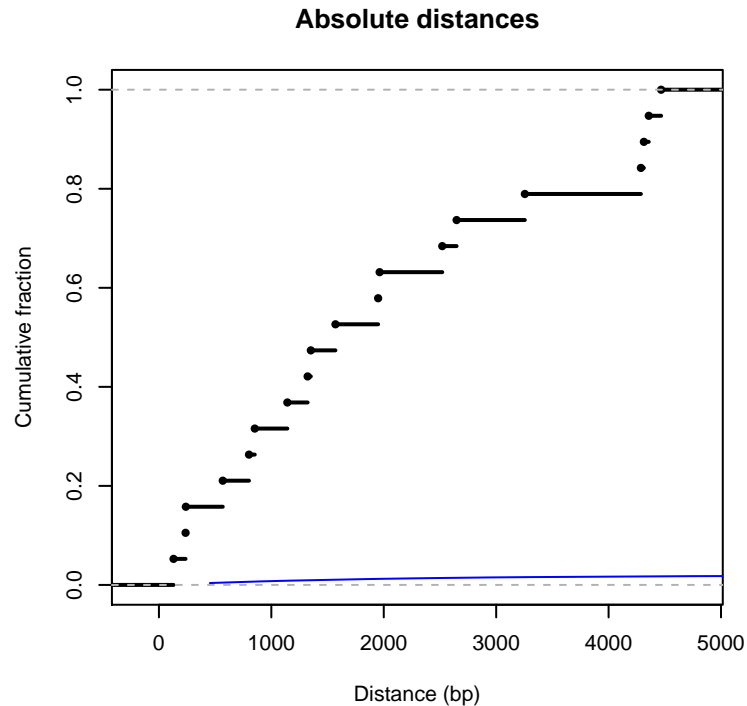
pcontig_177

Query population : 53
Reference population : 4
Relative Ks p-value : 1.44995e-06
Relative ecdf deviation area : 0.0856891
Relative ecdf area correlation : 0.340753
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.22045e-16
Projection test lower tail : FALSE
Projection test observed to expected ratio : 161.952



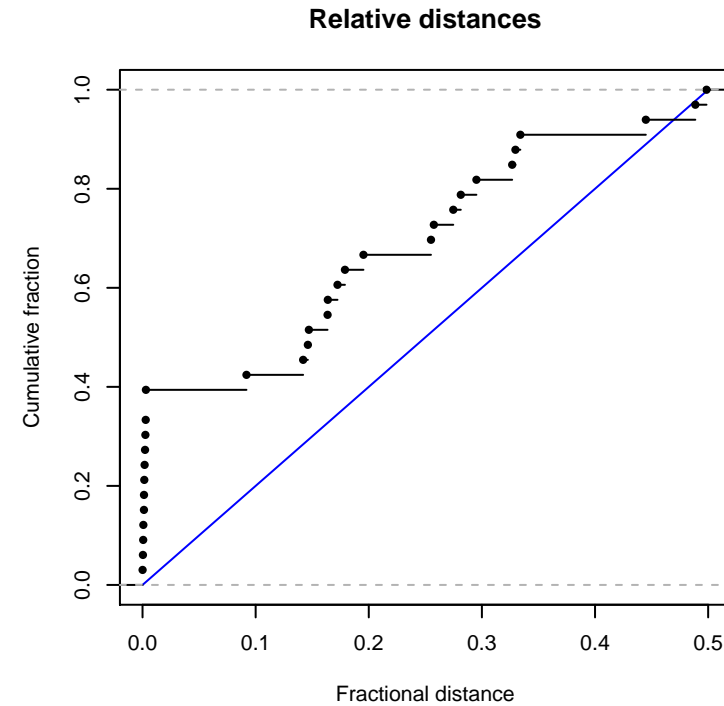
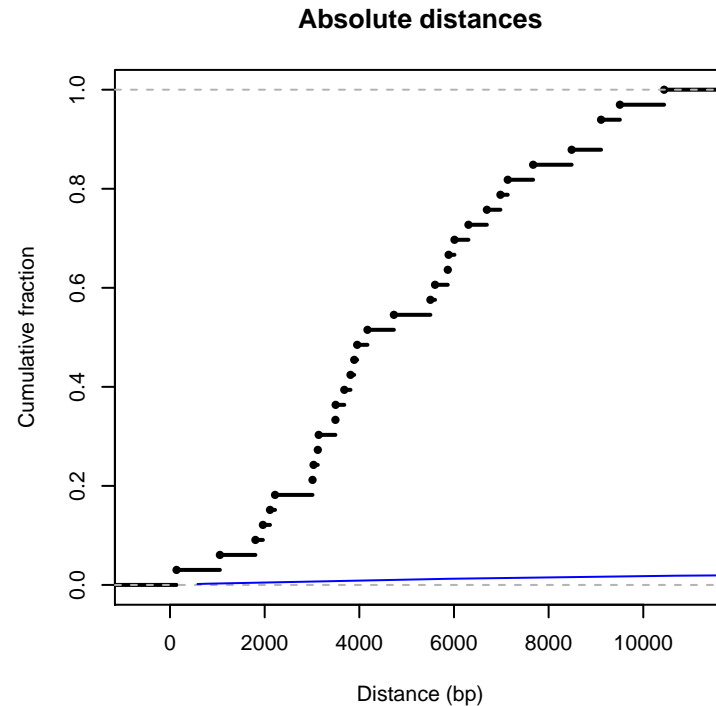
pcontig_179

Query population : 19
Reference population : 13
Relative Ks p-value : 0.301448
Relative ecdf deviation area : 0.0354755
Relative ecdf area correlation : -0.125138
Relative ecdf deviation area p-value : 0.42
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 3.55825e-10
Projection test lower tail : FALSE
Projection test observed to expected ratio : 53.6989



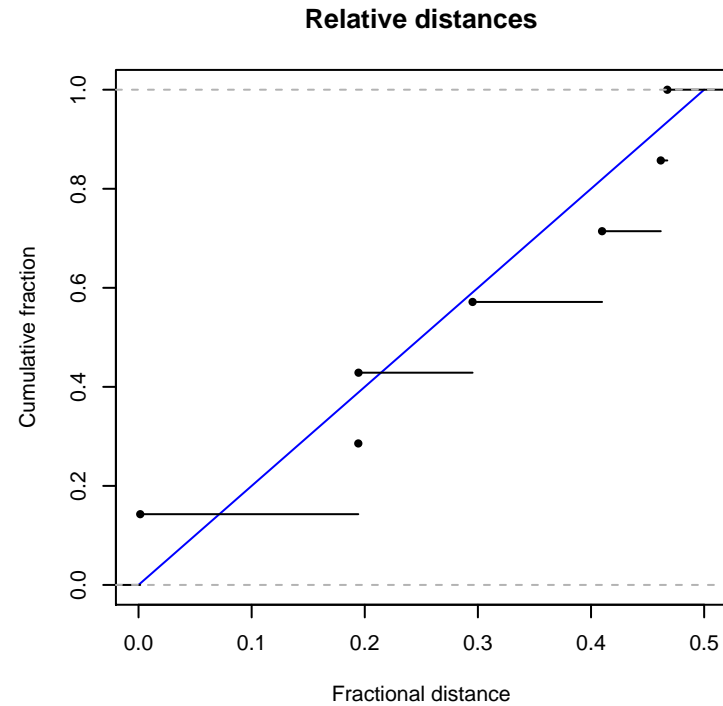
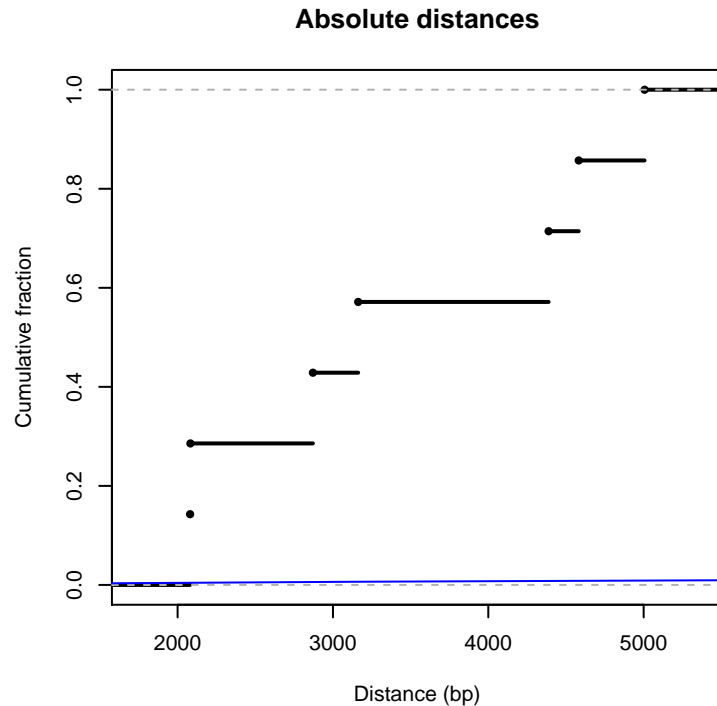
pcontig_181

Query population : 33
Reference population : 5
Relative Ks p-value : 5.55233e-05
Relative ecdf deviation area : 0.0933554
Relative ecdf area correlation : 0.368671
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 5.30697e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 27.9338



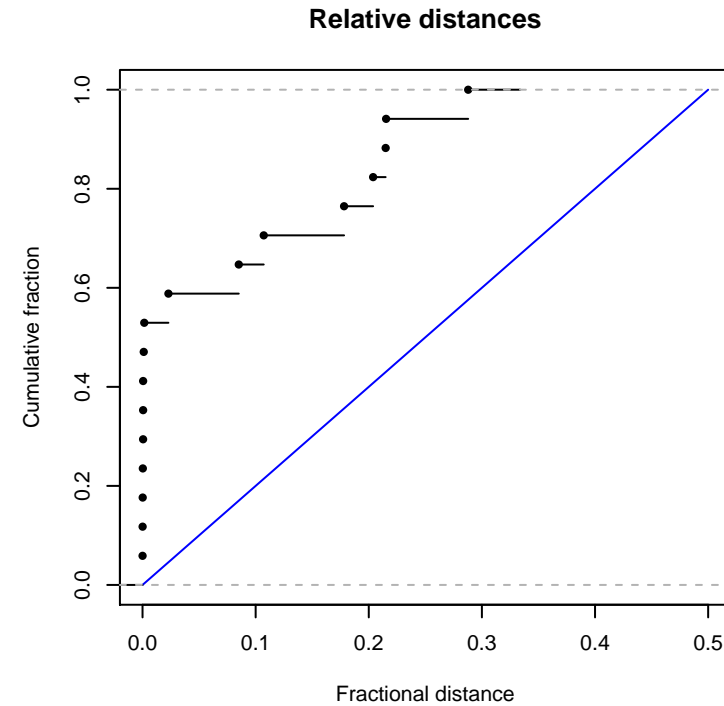
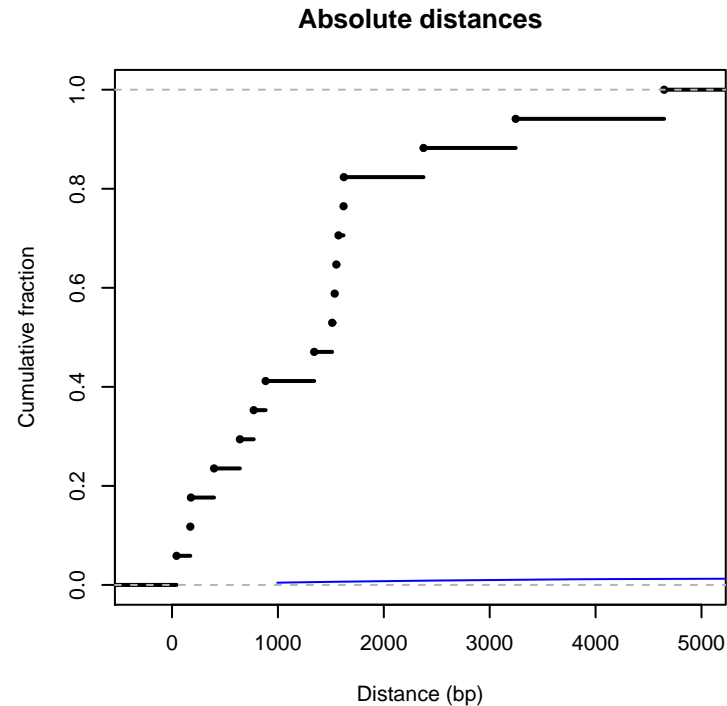
pcontig_185

Query population : 7
Reference population : 4
Relative Ks p-value : 0.697303
Relative ecdf deviation area : 0.0520437
Relative ecdf area correlation : -0.156789
Relative ecdf deviation area p-value : 0.56
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 : 0.0111834
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



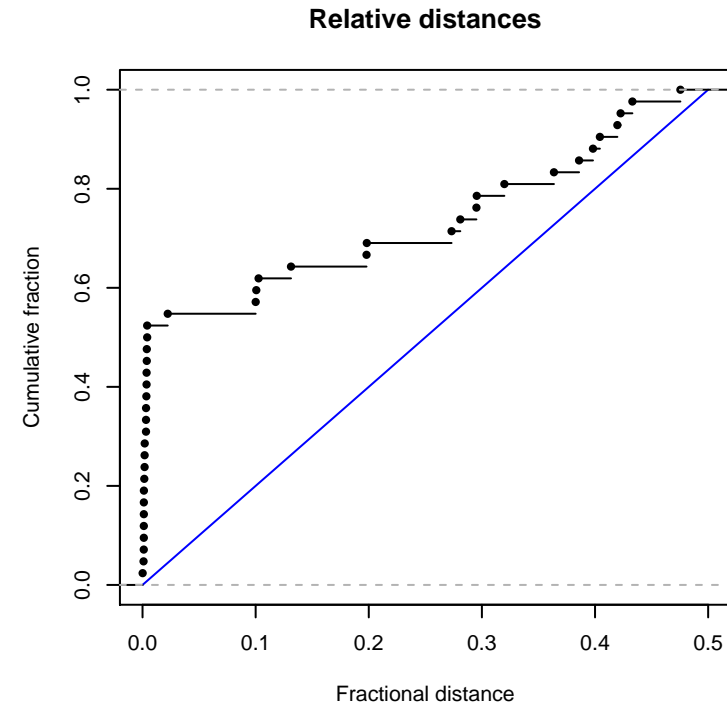
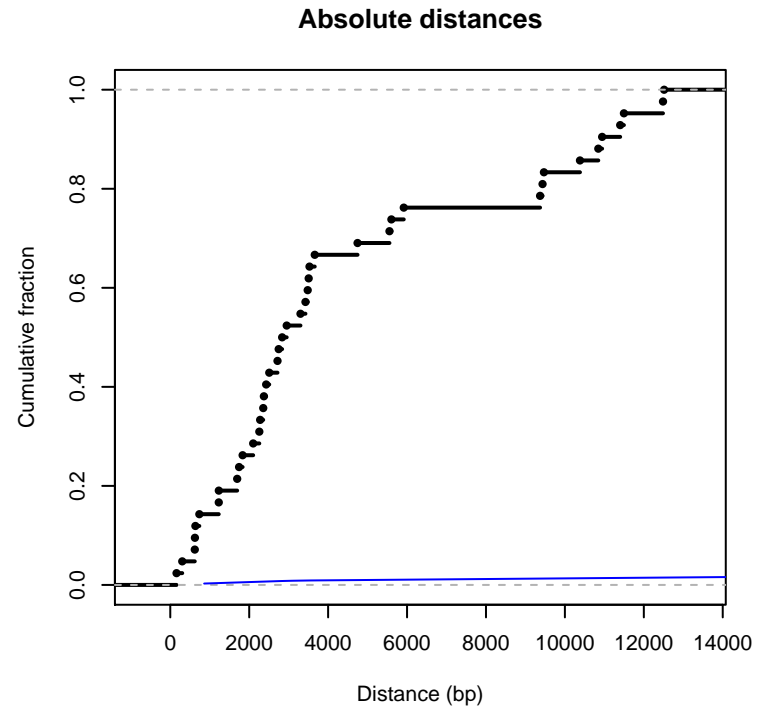
pcontig_186

Query population : 17
Reference population : 7
Relative Ks p-value : 3.25674e-05
Relative ecdf deviation area : 0.172264
Relative ecdf area correlation : 0.689469
Relative ecdf deviation 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 : 164.368



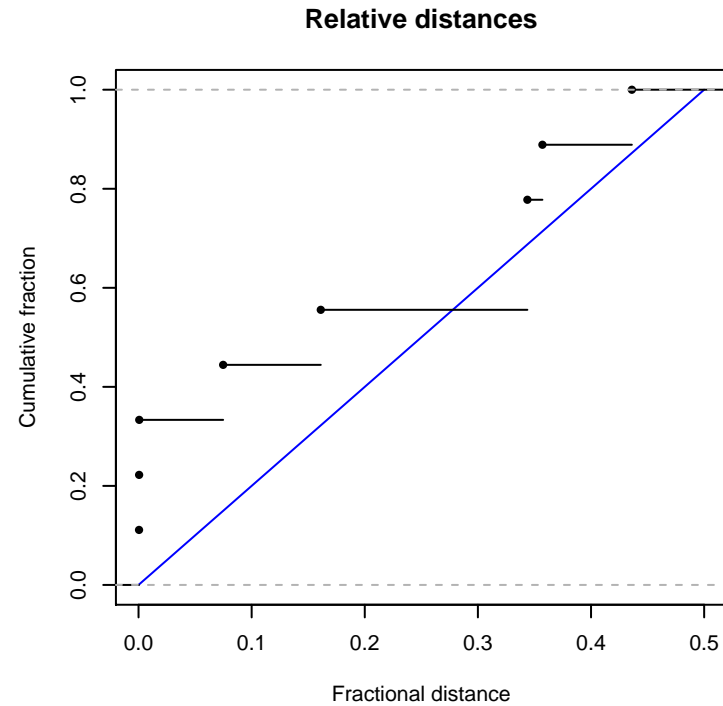
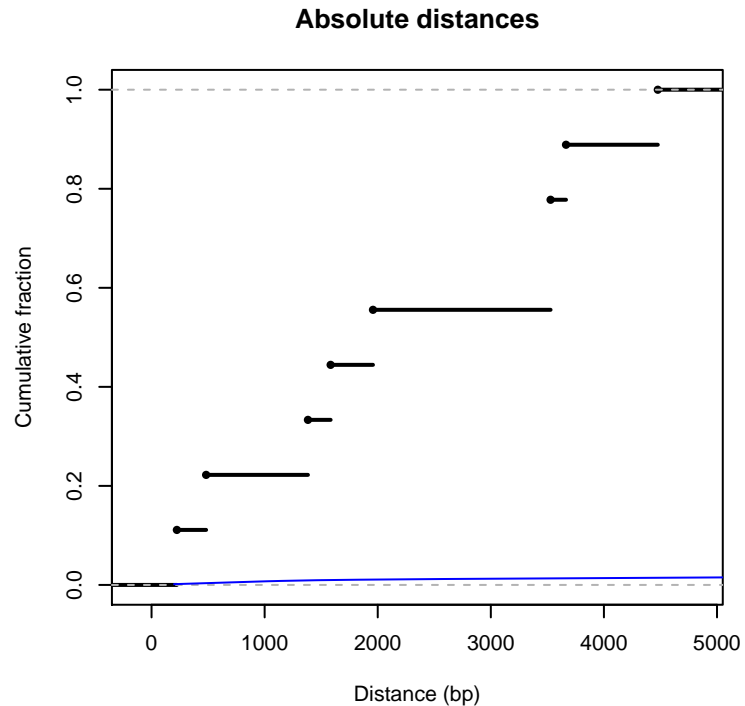
pcontig_187

Query population : 42
Reference population : 5
Relative Ks p-value : $6.73017\text{e-}11$
Relative ecdf deviation area : 0.114919
Relative ecdf area correlation : 0.459912
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : $6.55327\text{e-}05$
Projection test lower tail : FALSE
Projection test observed to expected ratio : 26.1766



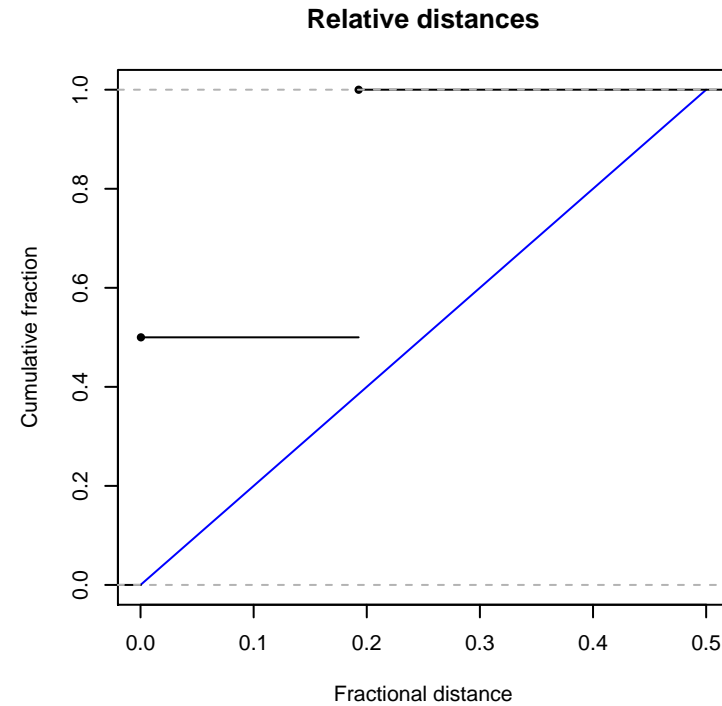
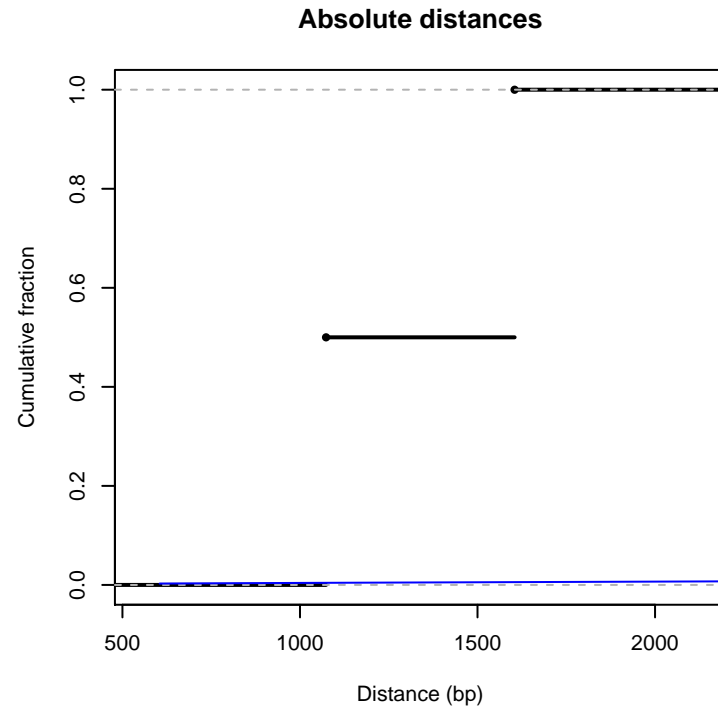
pcontig_188

Query population : 9
Reference population : 12
Relative Ks p-value : 0.219194
Relative ecdf deviation area : 0.0676916
Relative ecdf area correlation : 0.236387
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 : 1.77653e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 65.4646



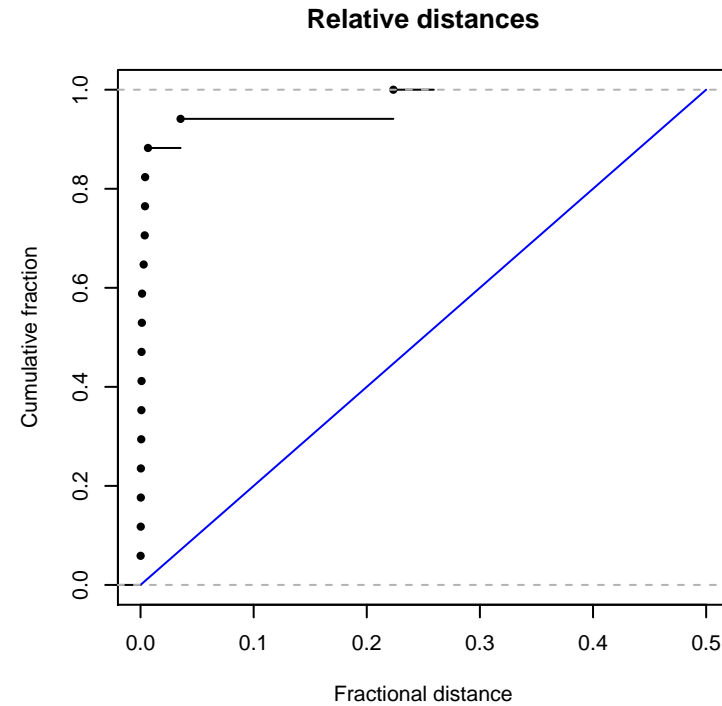
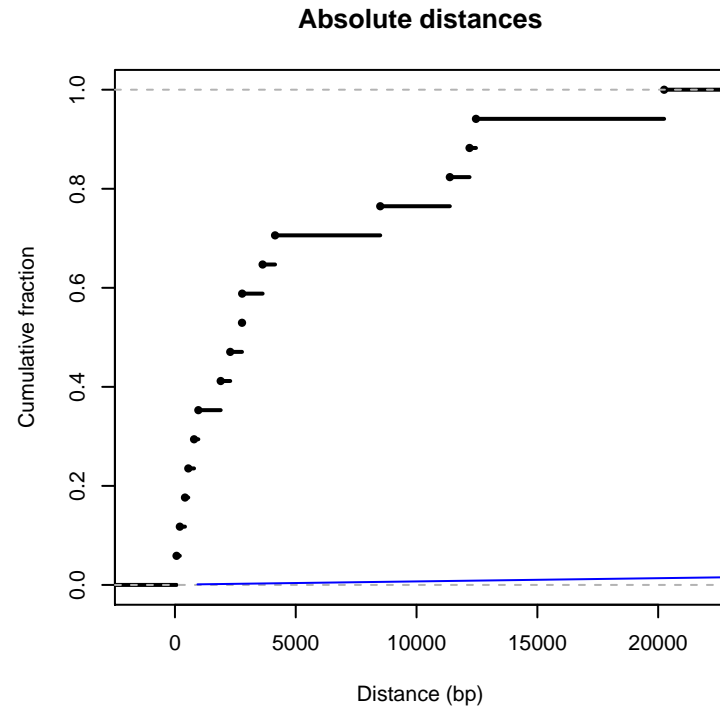
pcontig_189

Query population : 2
Reference population : 7
Relative Ks p-value : 0.297382
Relative ecdf deviation area : 0.153348
Relative ecdf area correlation : 0.613691
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 : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0091314
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_191

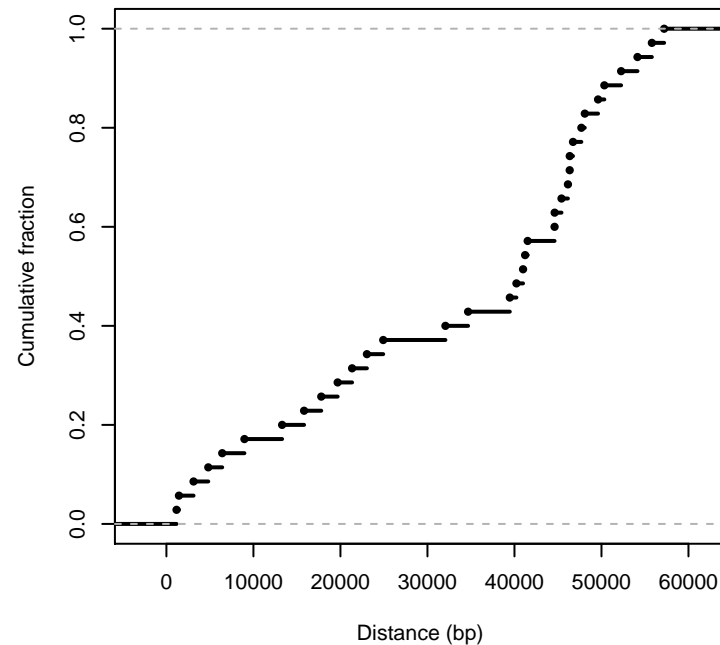
Query population : 17
Reference population : 2
Relative Ks p-value : 2.10942e-15
Relative ecdf deviation area : 0.233074
Relative ecdf area correlation : 0.93258
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure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



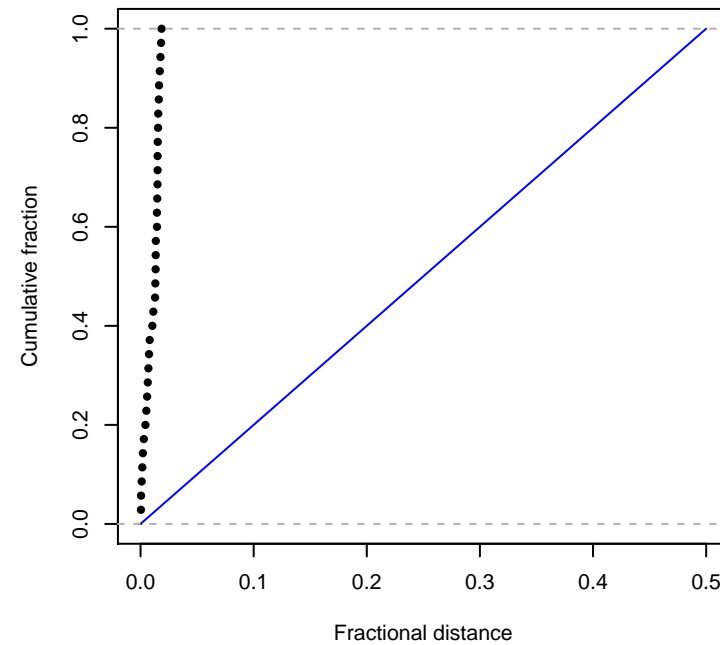
pcontig_193

Query population : 35
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.239137
Relative ecdf area correlation : 0.956585
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00540738
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

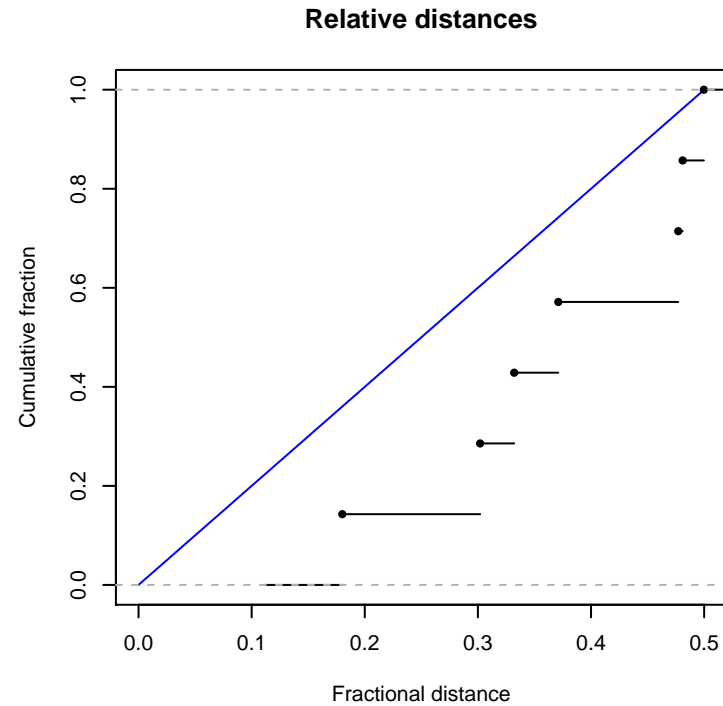
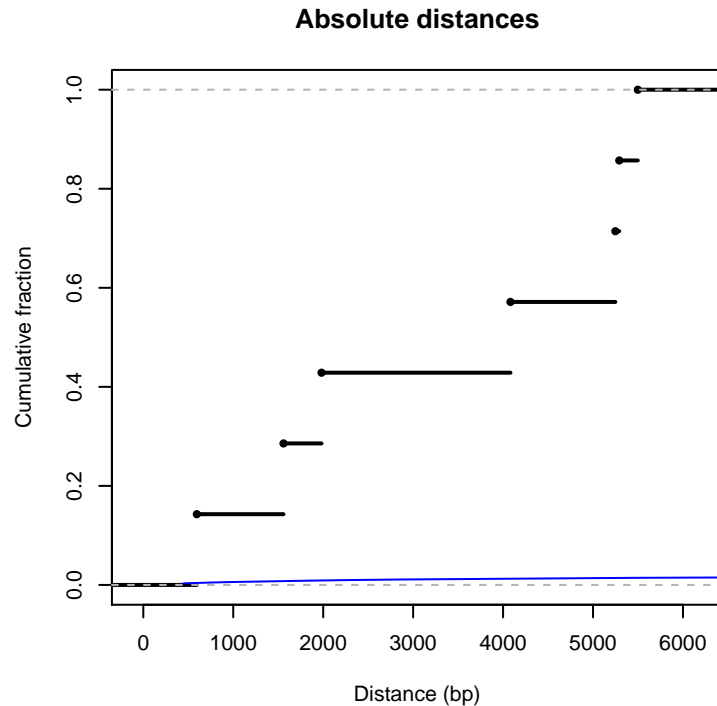


Relative distances



pcontig_195

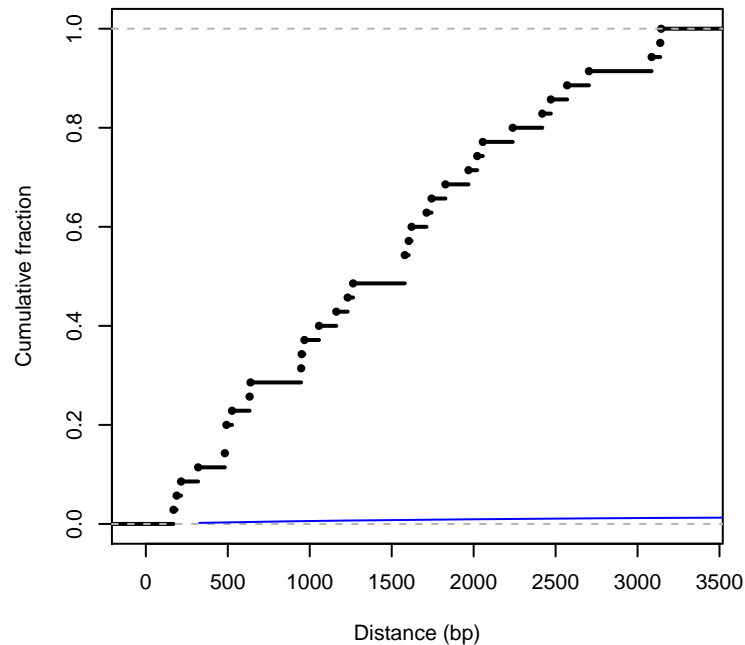
Query population : 7
Reference population : 11
Relative Ks p-value : 0.0701434
Relative ecdf deviation area : 0.127344
Relative ecdf area correlation : -0.510376
Relative ecdf deviation area p-value : 0.03
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000584695
Projection test lower tail : FALSE
Projection test observed to expected ratio : 26.8343



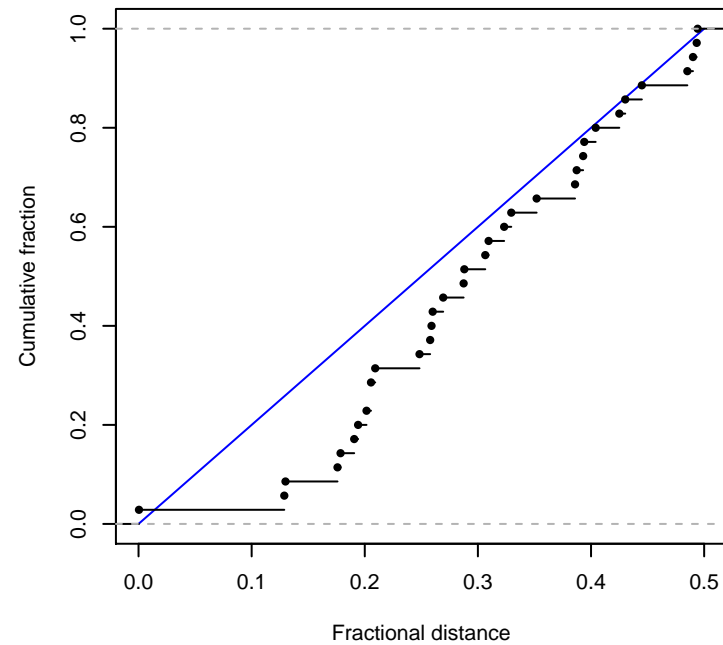
pcontig_200

Query population : 35
Reference population : 10
Relative Ks p-value : 0.0111913
Relative ecdf deviation area : 0.0513596
Relative ecdf area correlation : -0.204366
Relative ecdf deviation area p-value : 0.03
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 : 4.64627e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 27.3907

Absolute distances

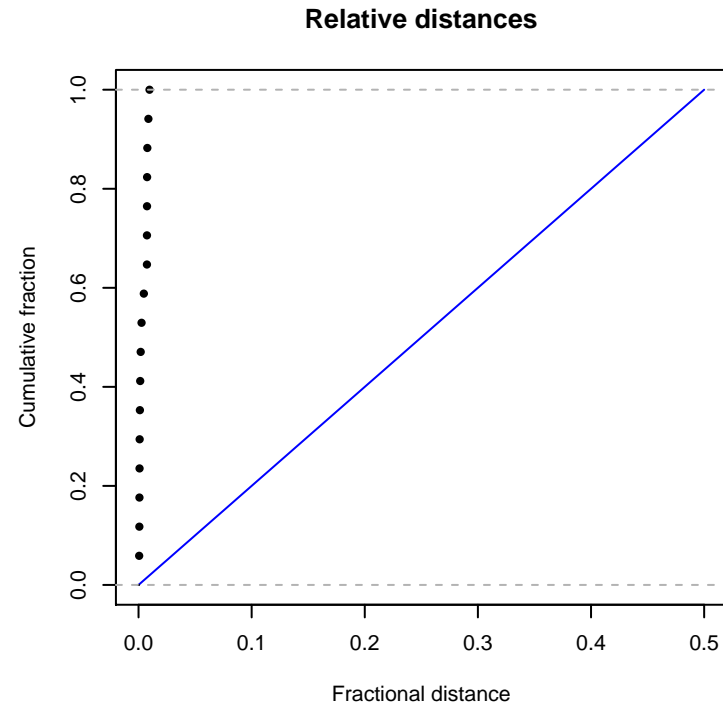
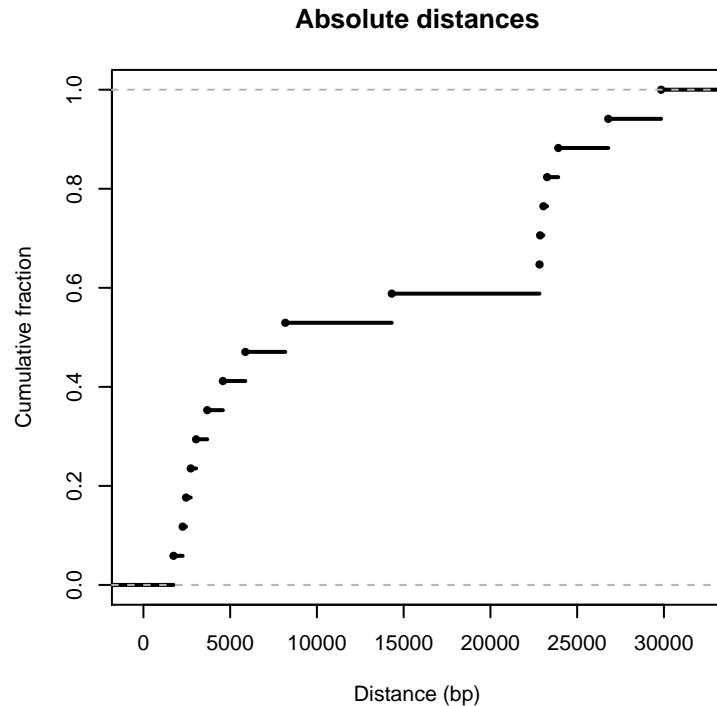


Relative distances



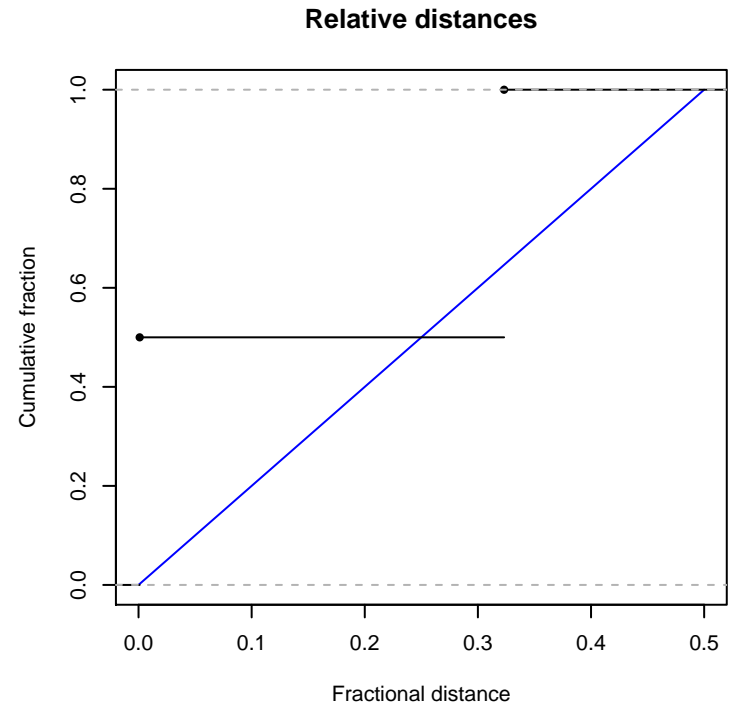
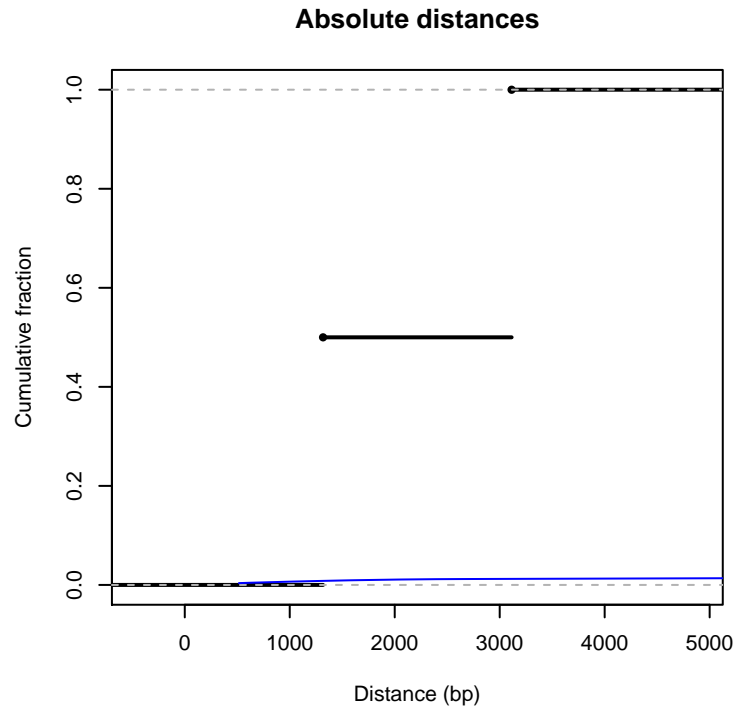
pcontig_202

Query population : 17
Reference population : 1
Relative Ks p-value : 0
Relative ecdf deviation area : 0.245911
Relative ecdf area correlation : 0.983046
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00699182
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



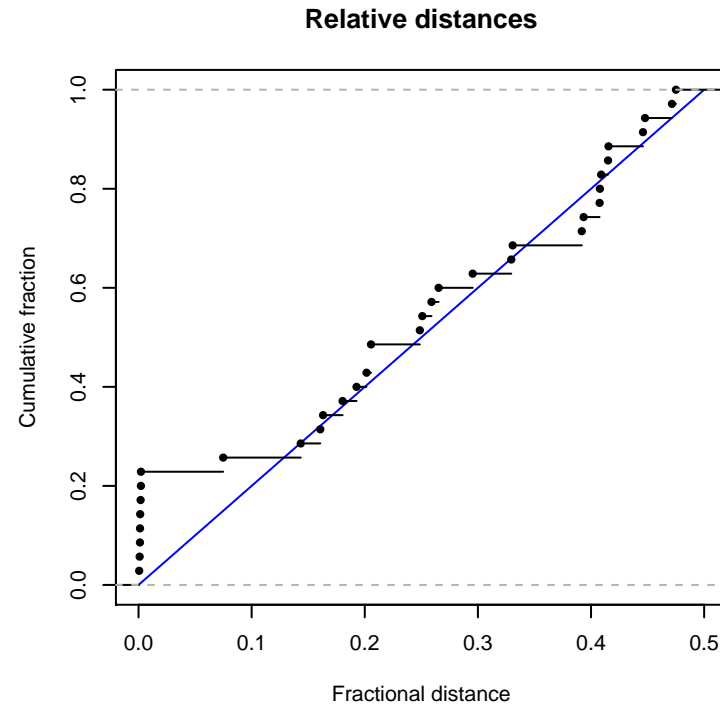
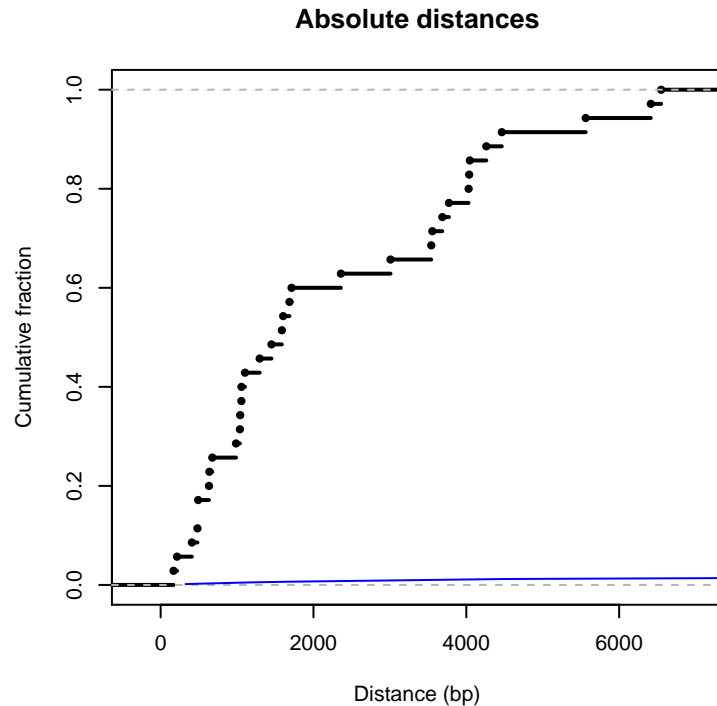
pcontig_203

Query population : 2
Reference population : 11
Relative Ks p-value : 0.508156
Relative ecdf deviation area : 0.0982074
Relative ecdf area correlation : 0.351644
Relative ecdf deviation area p-value : 0.6
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 : 0.0111634
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_204

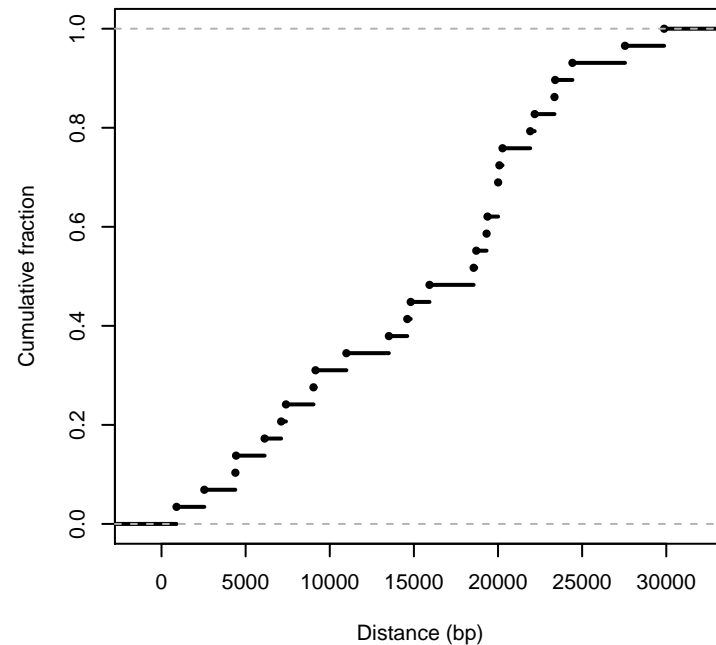
Query population : 35
Reference population : 8
Relative Ks p-value : 0.0499621
Relative ecdf deviation area : 0.0234597
Relative ecdf area correlation : 0.0629401
Relative ecdf deviation area p-value : 0.64
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.002196
Projection test lower tail : FALSE
Projection test observed to expected ratio : 14.5551



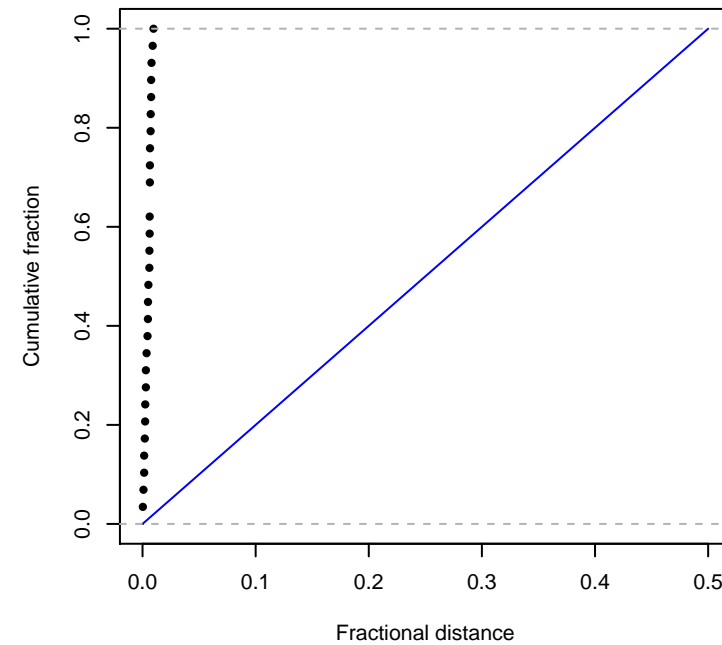
pcontig_205

Query population : 29
Reference population : 1
Relative Ks p-value : 1.11022e-16
Relative ecdf deviation area : 0.244752
Relative ecdf area correlation : 0.979804
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00183866
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

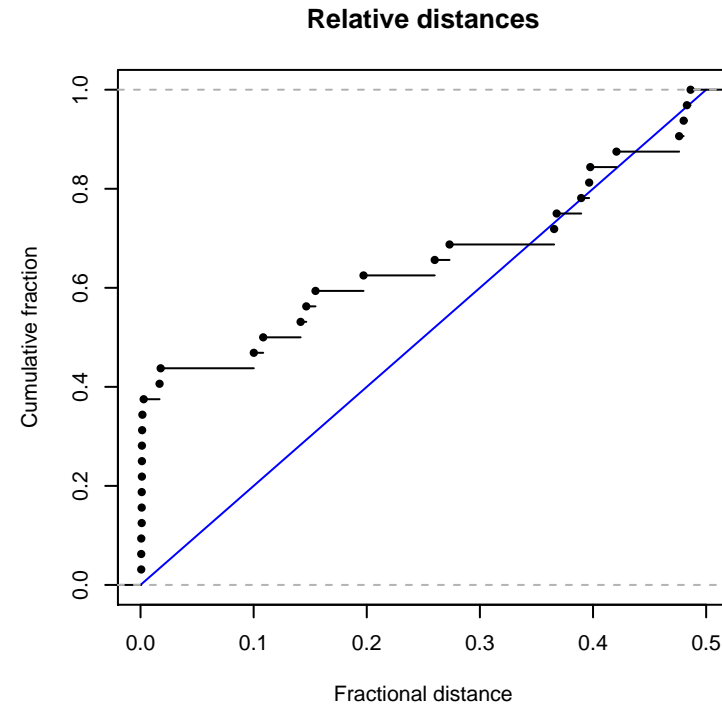
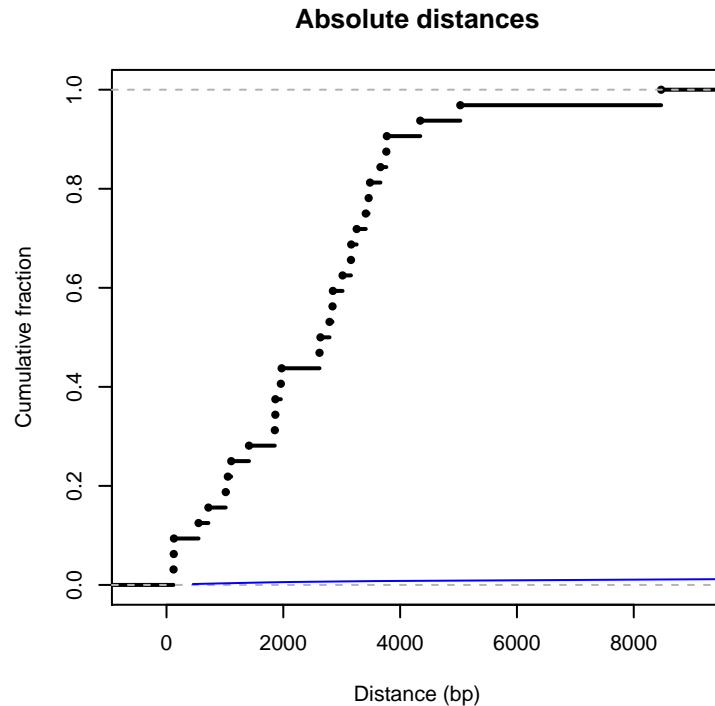


Relative distances



pcontig_207

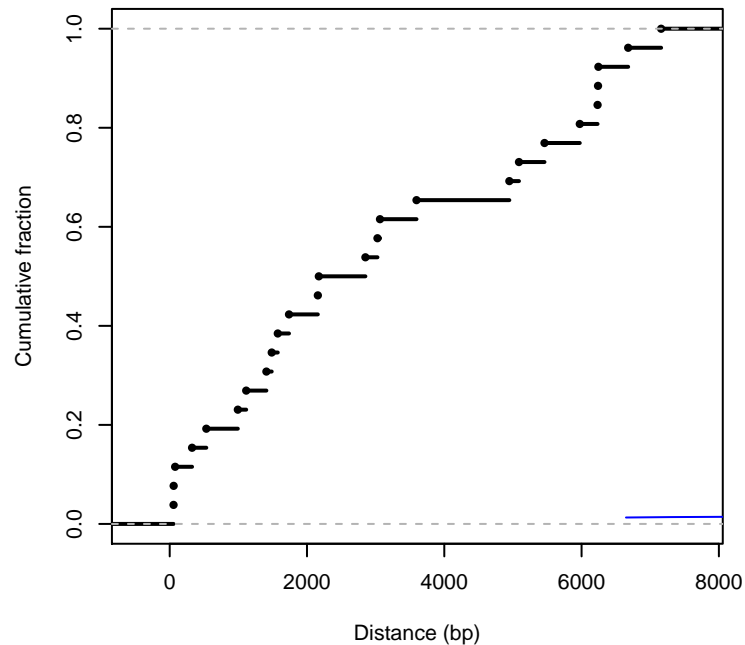
Query population : 32
Reference population : 6
Relative Ks p-value : 3.52149e-05
Relative ecdf deviation area : 0.0763031
Relative ecdf area correlation : 0.288238
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard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



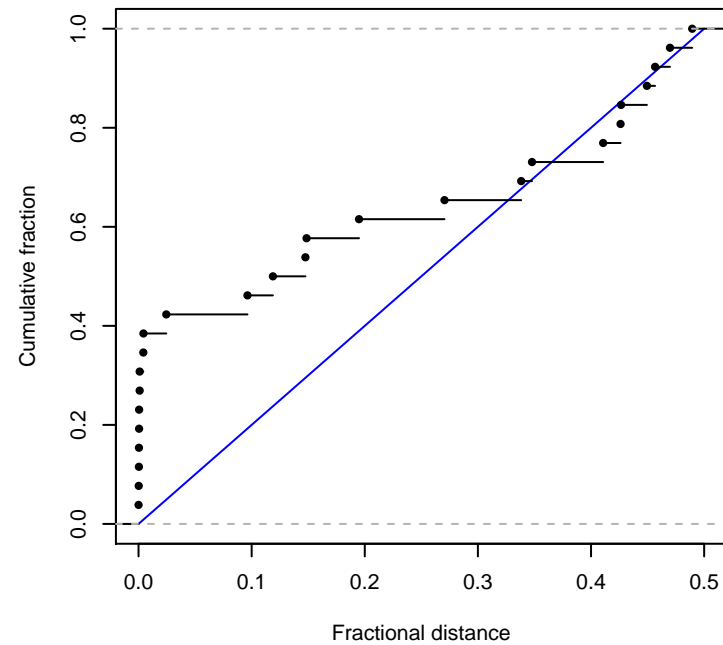
pcontig_214

Query population : 26
Reference population : 3
Relative Ks p-value : 0.000825342
Relative ecdf deviation area : 0.0727531
Relative ecdf area correlation : 0.25719
Relative ecdf deviation area p-value : 0.03
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 : 4.95181e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 151.587

Absolute distances

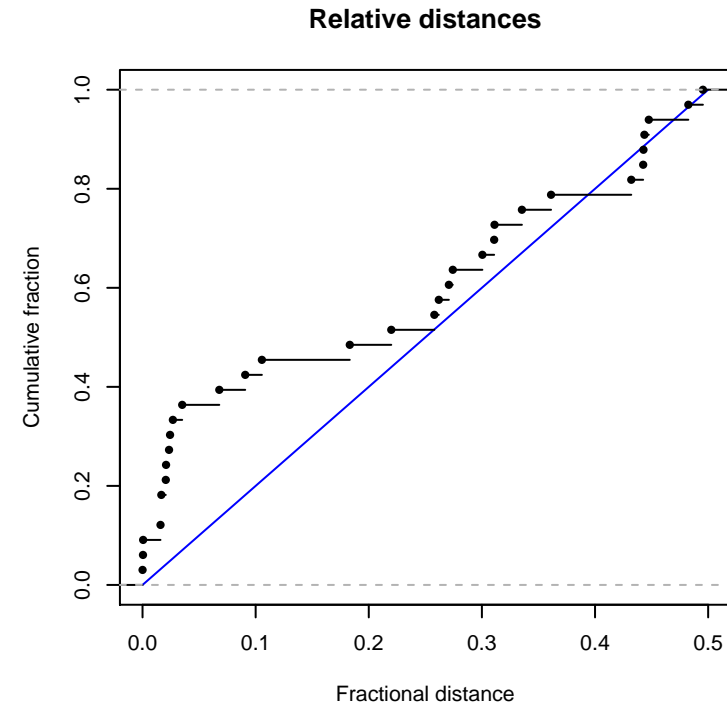
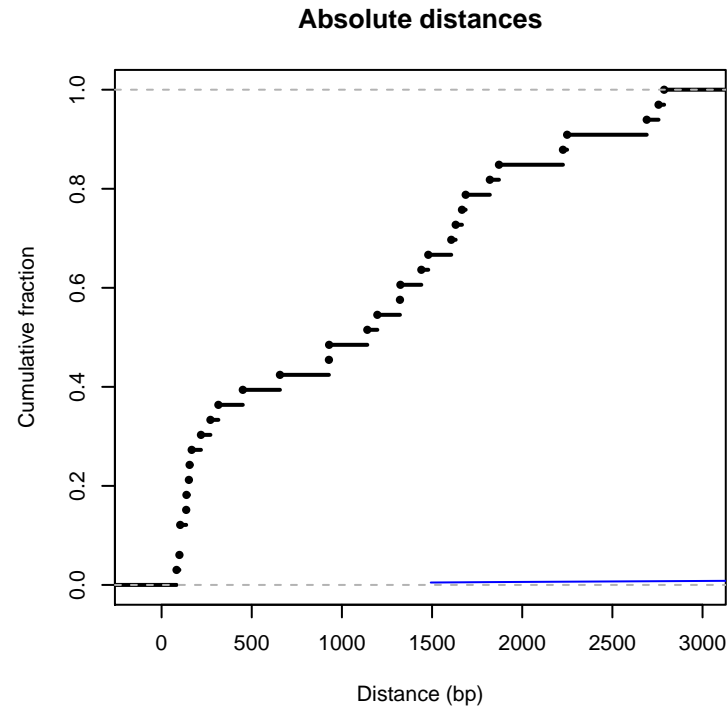


Relative distances



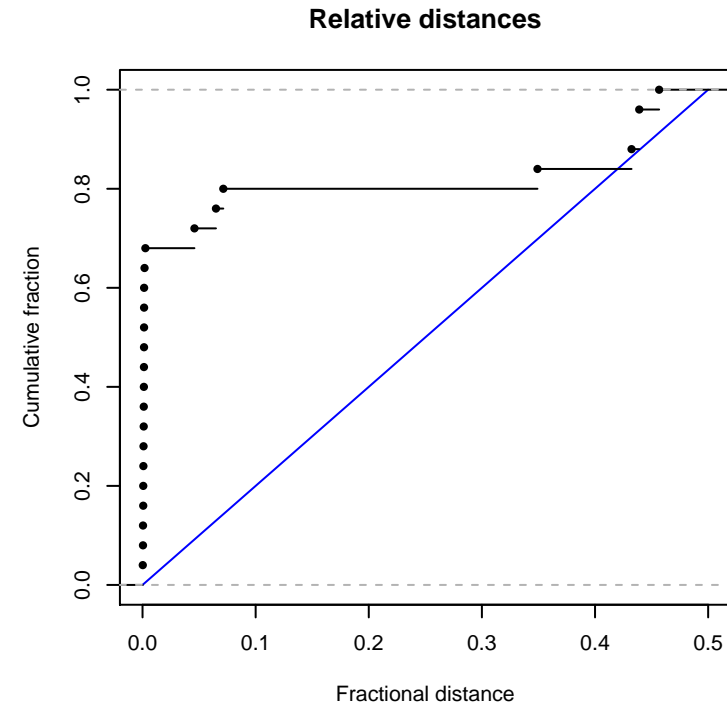
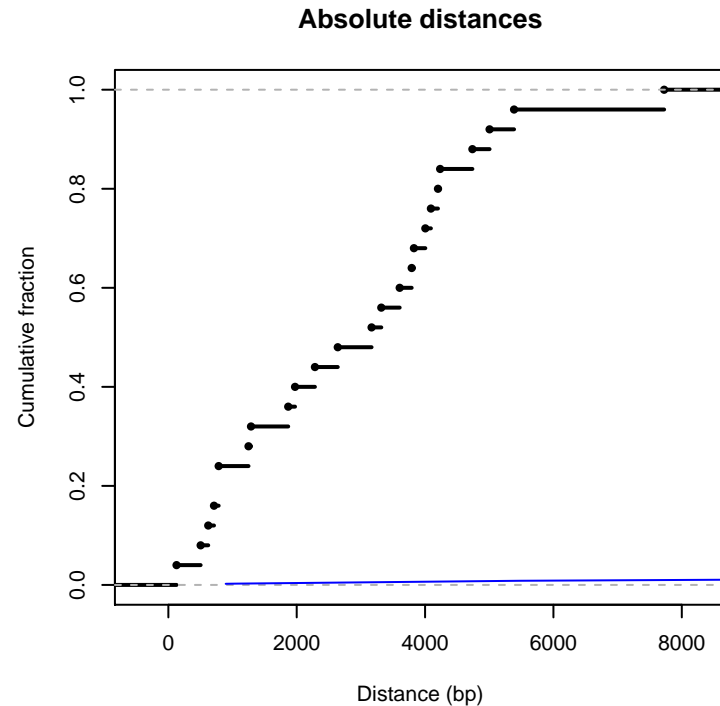
pcontig_218

Query population : 33
Reference population : 5
Relative Ks p-value : 0.00516943
Relative ecdf deviation area : 0.0507597
Relative ecdf area correlation : 0.18318
Relative ecdf deviation area p-value : 0.07
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 153.754



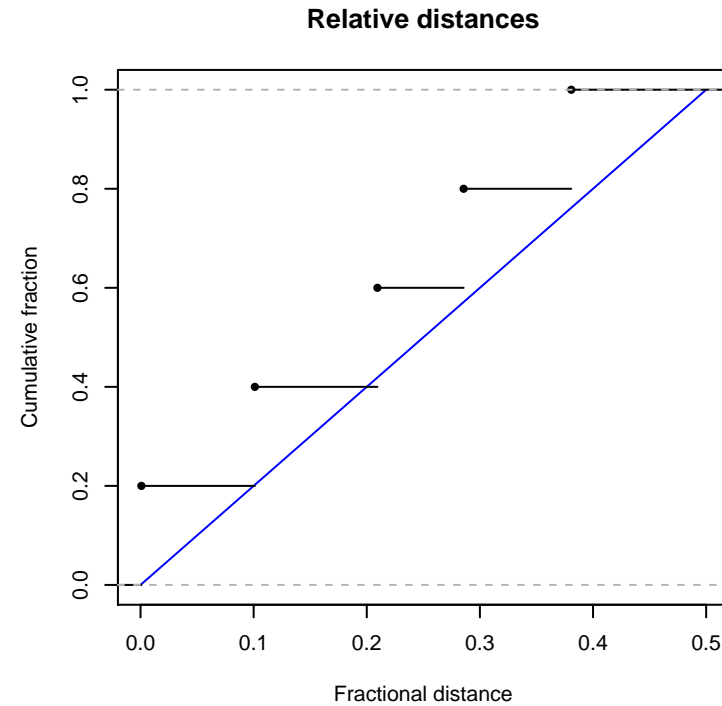
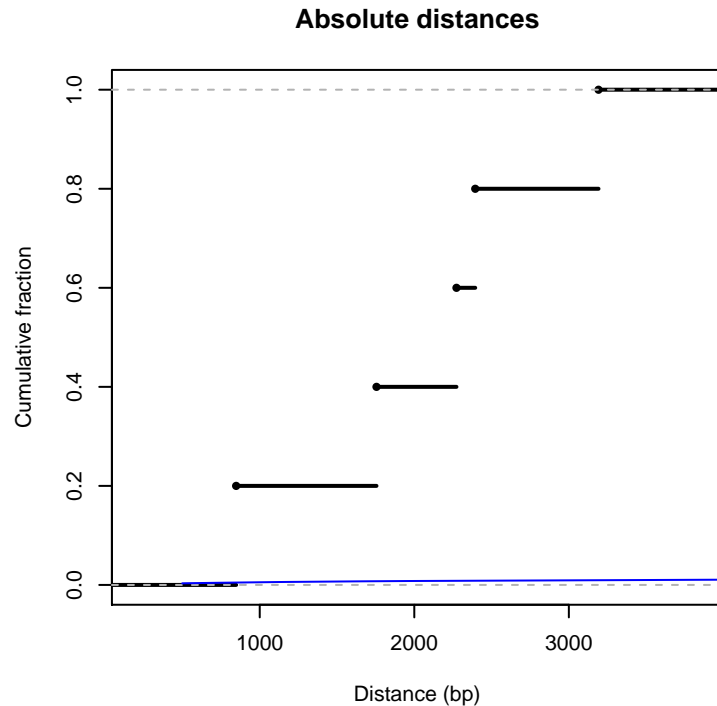
pcontig_221

Query population : 25
Reference population : 4
Relative Ks p-value : $8.6291\text{e-}12$
Relative ecdf deviation area : 0.157227
Relative ecdf area correlation : 0.629337
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : $4.9627\text{e-}14$
Projection test lower tail : FALSE
Projection test observed to expected ratio : 123.202



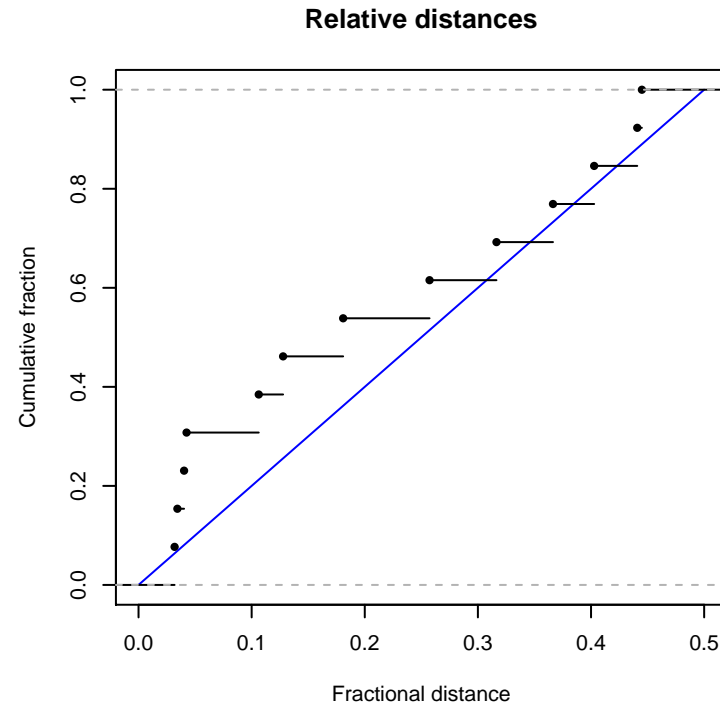
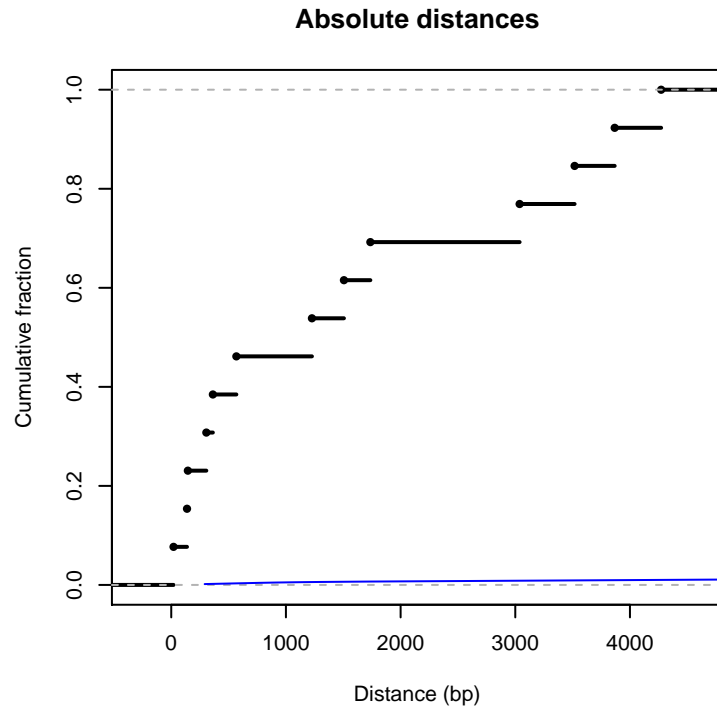
pcontig_223

Query population : 5
Reference population : 10
Relative Ks p-value : 0.878347
Relative ecdf deviation area : 0.0548357
Relative ecdf area correlation : 0.217916
Relative ecdf deviation area p-value : 0.63
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000124956
Projection test lower tail : FALSE
Projection test observed to expected ratio : 56.3779



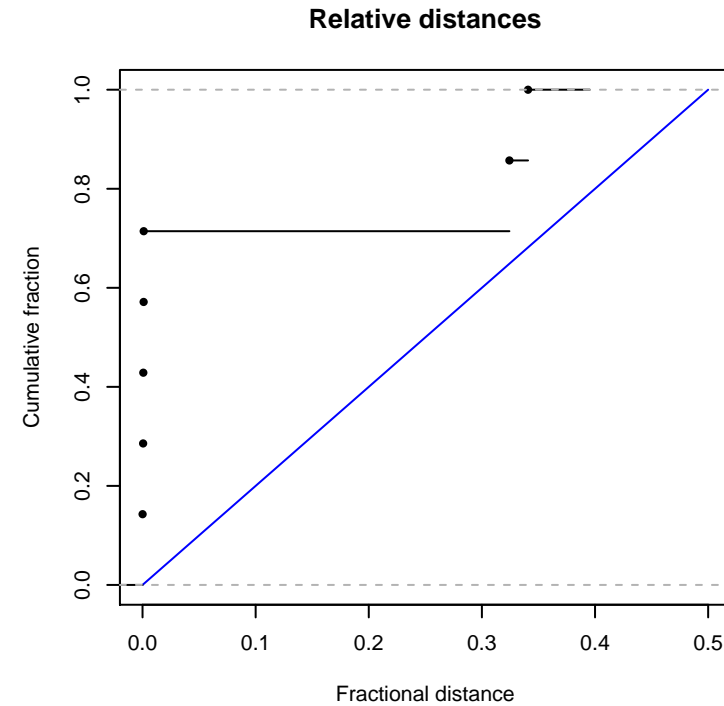
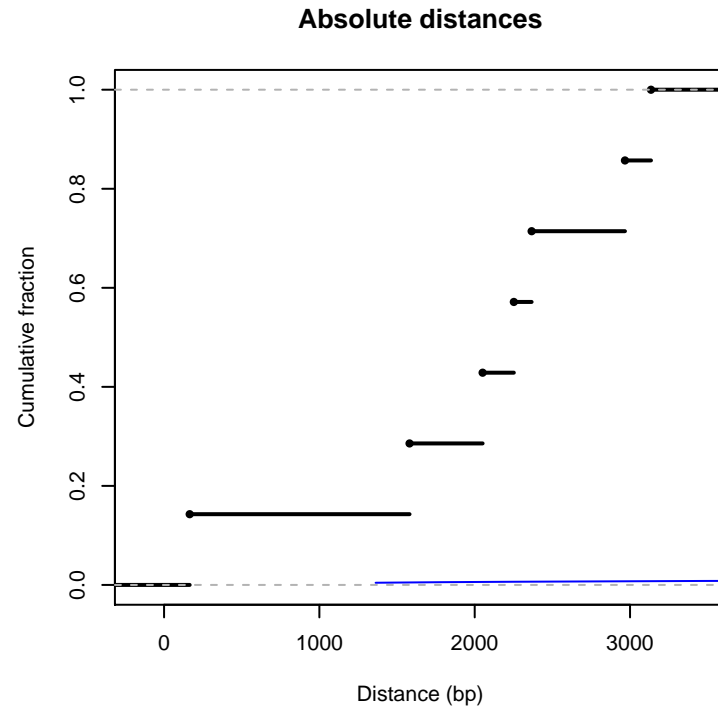
pcontig_225

Query population : 13
Reference population : 9
Relative Ks p-value : 0.47206
Relative ecdf deviation area : 0.0393181
Relative ecdf area correlation : 0.14078
Relative ecdf deviation area p-value : 0.52
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 7.43849e-15
Projection test lower tail : FALSE
Projection test observed to expected ratio : 139.14



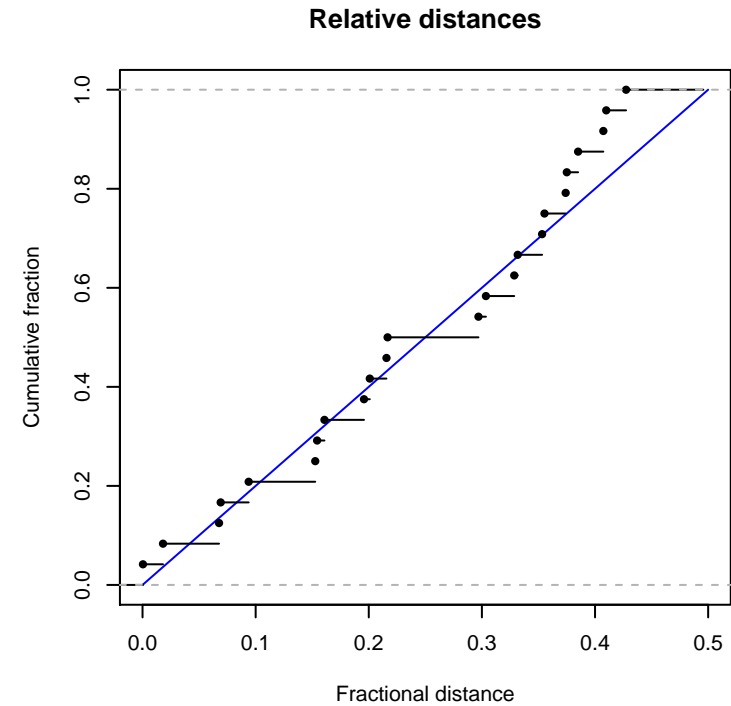
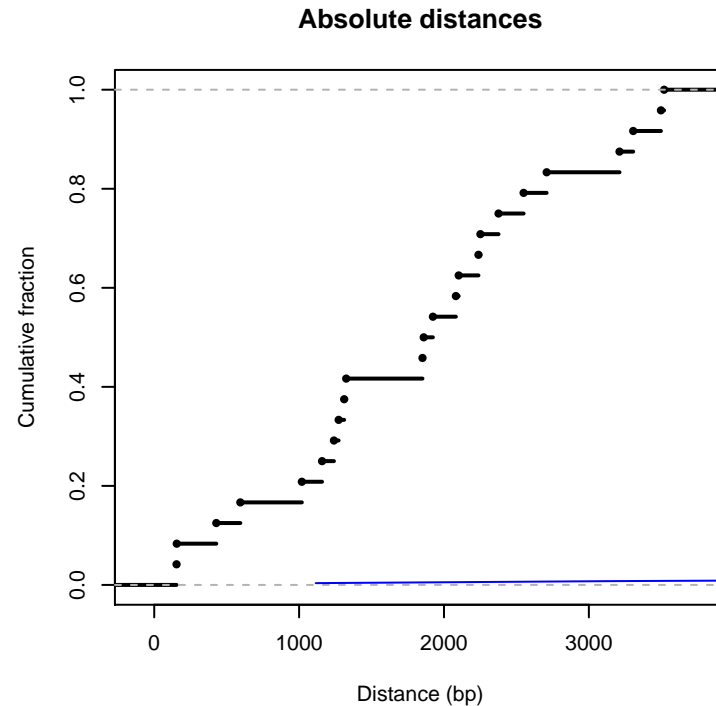
pcontig_233

Query population : 7
Reference population : 5
Relative Ks p-value : 0.00041915
Relative ecdf deviation area : 0.153765
Relative ecdf area correlation : 0.618088
Relative ecdf deviation 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 : 0.000301109
Projection test lower tail : FALSE
Projection test observed to expected ratio : 37.4878



pcontig_235

Query population : 24
Reference population : 5
Relative Ks p-value : 0.640843
Relative ecdf deviation area : 0.0221
Relative ecdf area correlation : 0.0176891
Relative ecdf deviation area p-value : 0.72
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 : 0.000506811
Projection test lower tail : FALSE
Projection test observed to expected ratio : 30.4414



All Chromosomes

Query population : 49155
Reference population : 14349
Relative Ks p-value : 0
Relative ecdf deviation area : 0.023224
Relative ecdf area correlation : -0.0887487
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.3
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.0261

