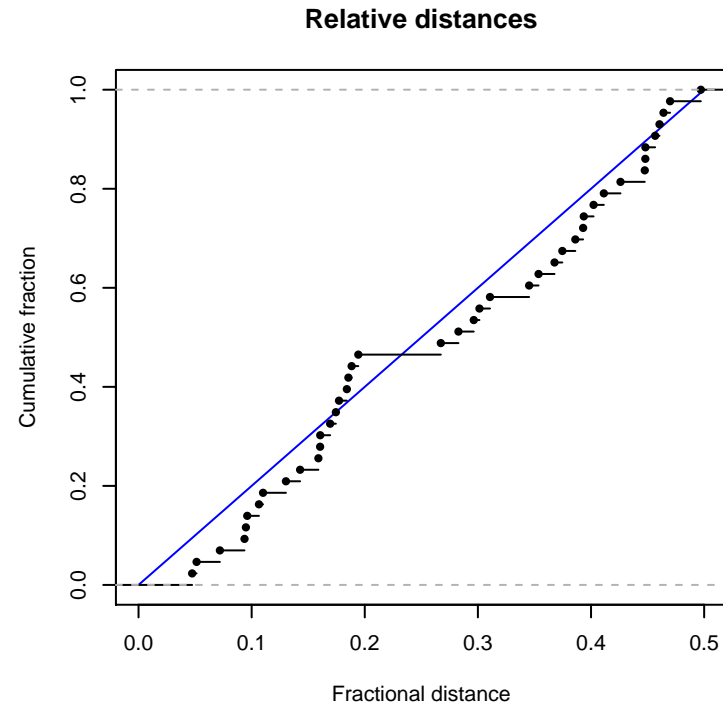
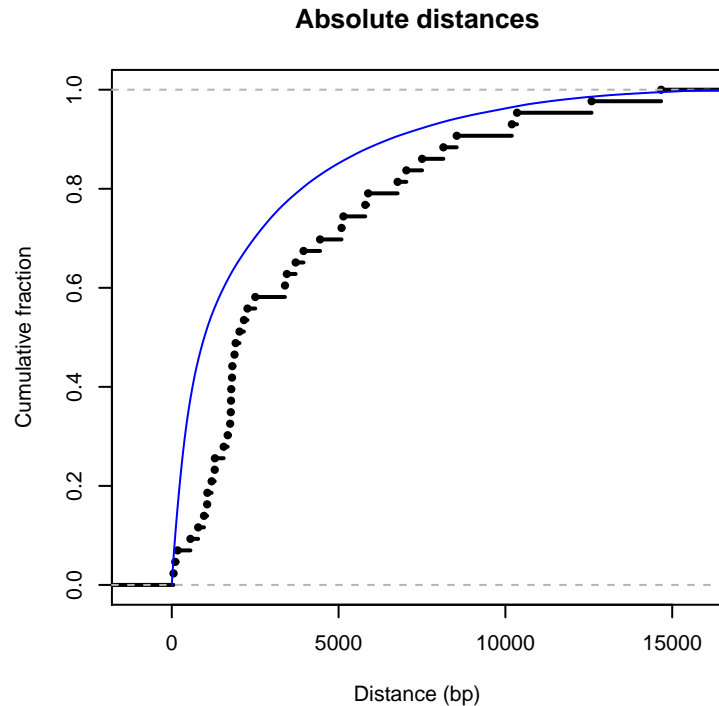


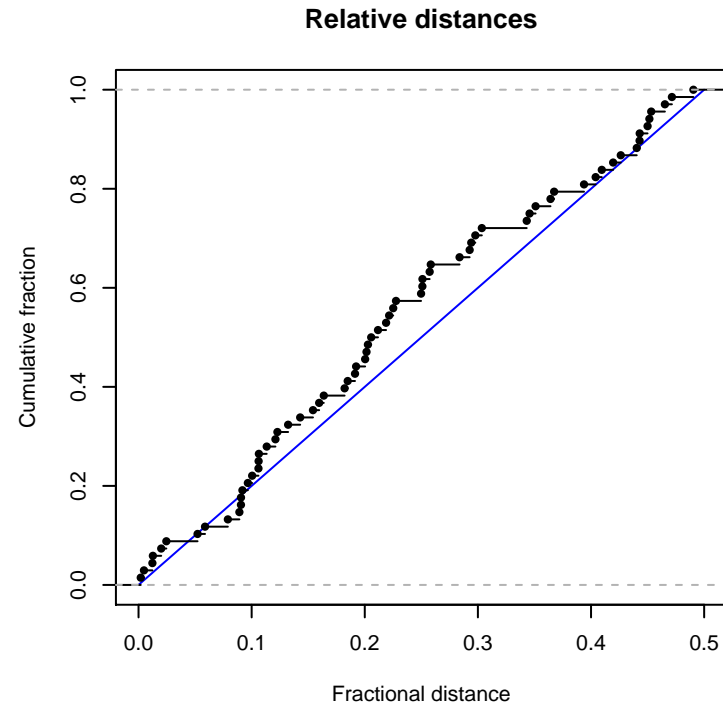
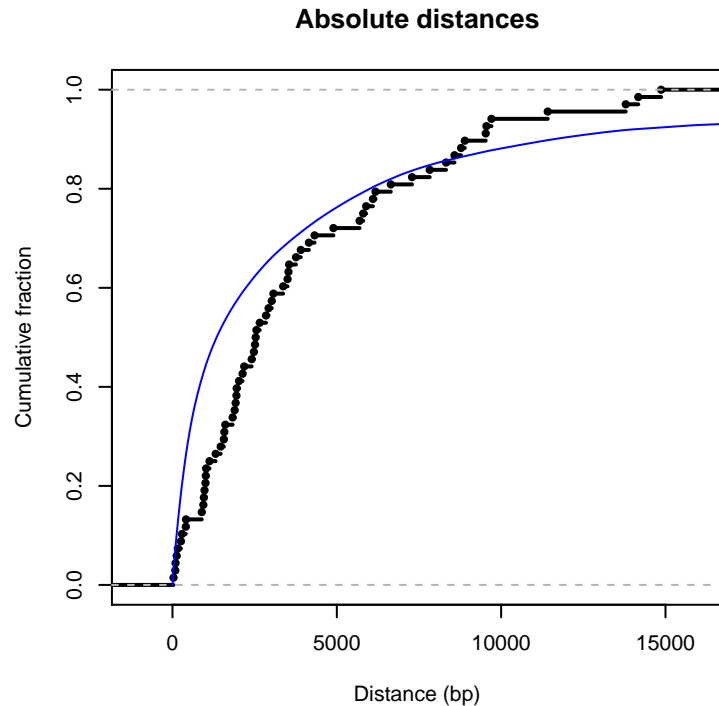
pcontig_000

Query population : 43
Reference population : 1836
Relative Ks p-value : 0.552496
Relative ecdf deviation area : 0.0276196
Relative ecdf area correlation : -0.0885814
Relative ecdf deviation area p-value : 0.29
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 : 2.9564e-05
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.285023



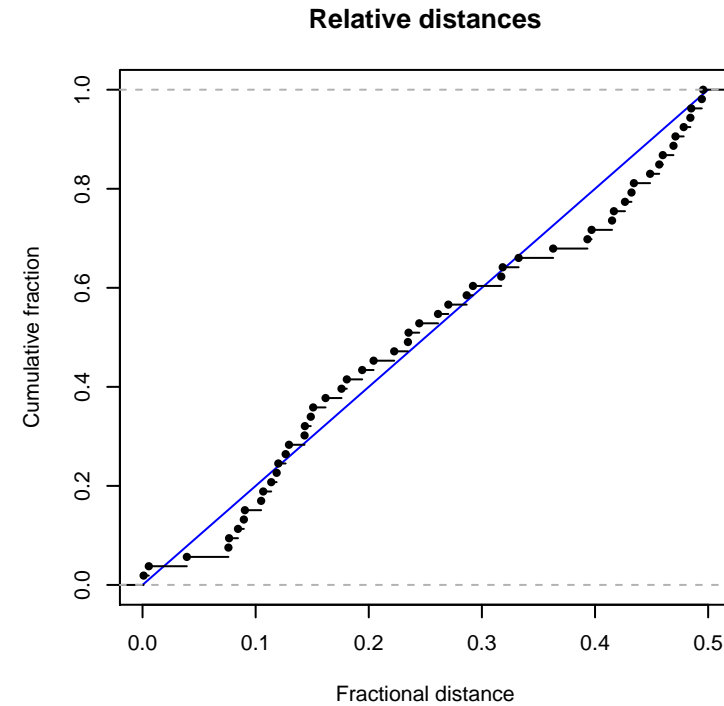
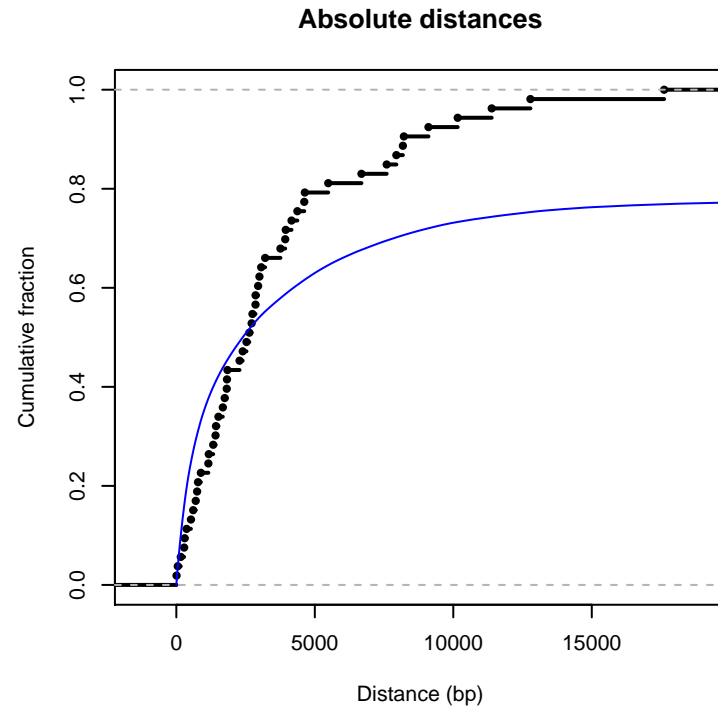
pcontig_001

Query population : 68
Reference population : 1560
Relative Ks p-value : 0.181197
Relative ecdf deviation area : 0.0237584
Relative ecdf area correlation : 0.0828229
Relative ecdf deviation area p-value : 0.19
Scaled Absolute min. distance p-value : 0.08
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.000193775
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.423713



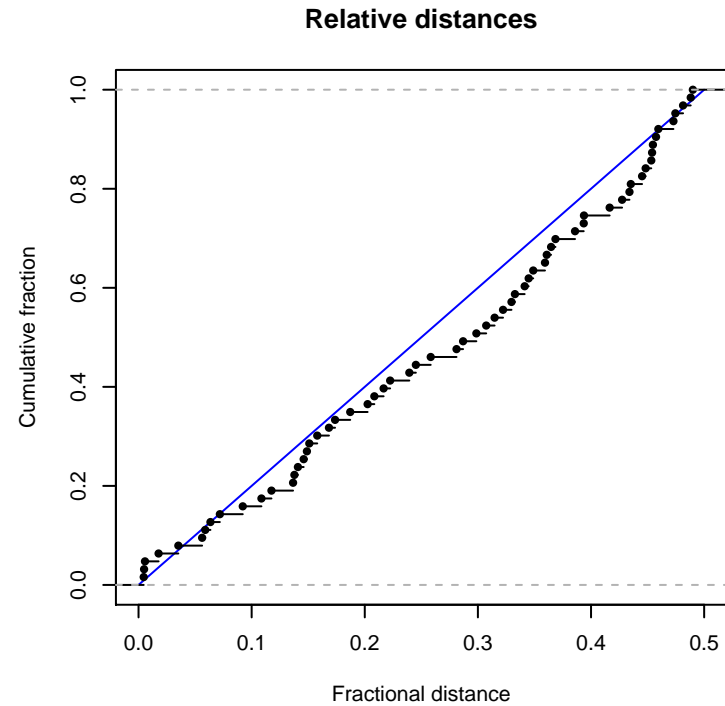
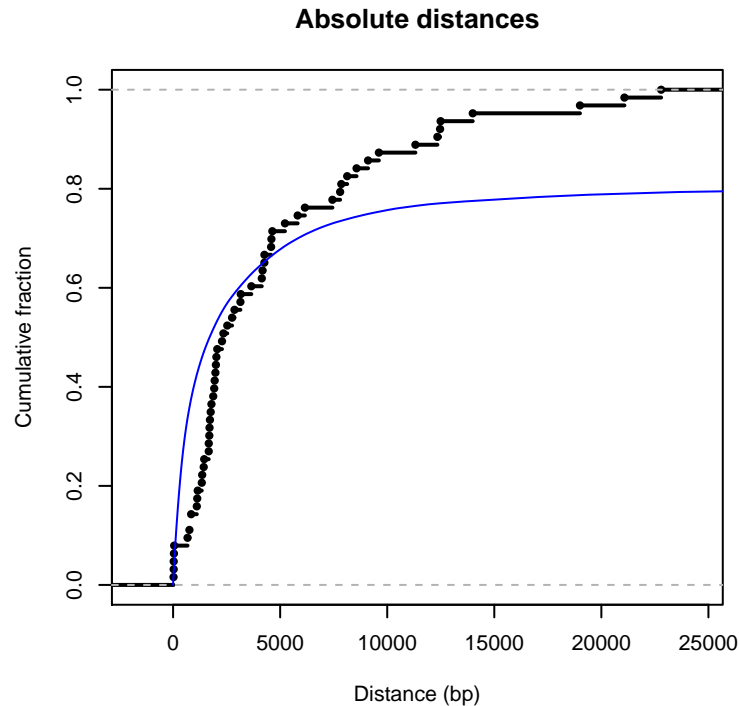
pcontig_002

Query population : 53
Reference population : 1204
Relative Ks p-value : 0.472247
Relative ecdf deviation area : 0.0200469
Relative ecdf area correlation : -0.0431862
Relative ecdf deviation area p-value : 0.48
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.12
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.134905
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.728116



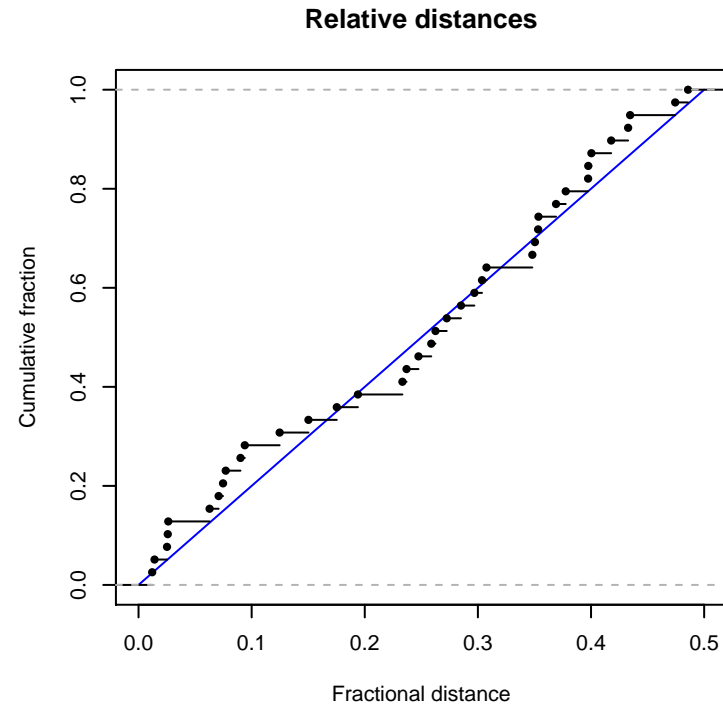
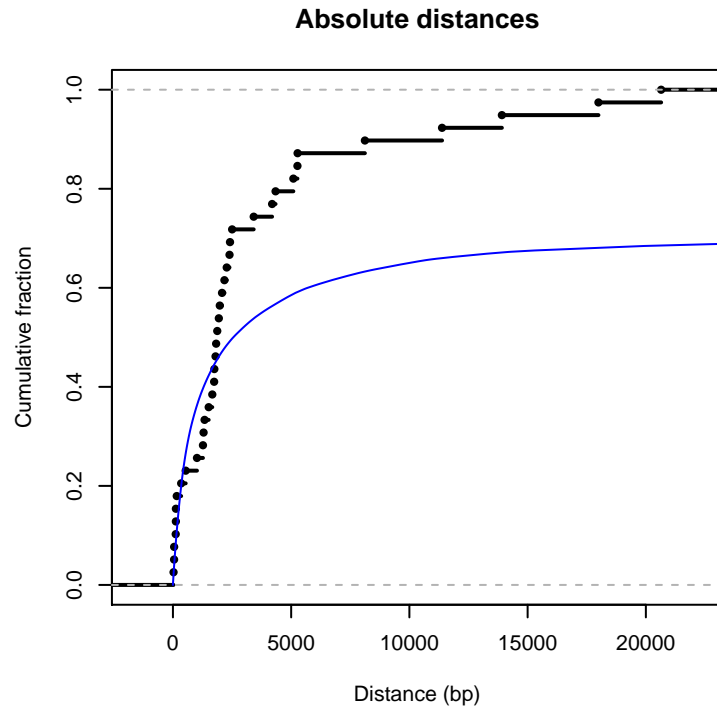
pcontig_003

Query population : 63
Reference population : 1462
Relative Ks p-value : 0.439262
Relative ecdf deviation area : 0.0245763
Relative ecdf area correlation : -0.0924186
Relative ecdf deviation area p-value : 0.3
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 2.28887e-05
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.323126



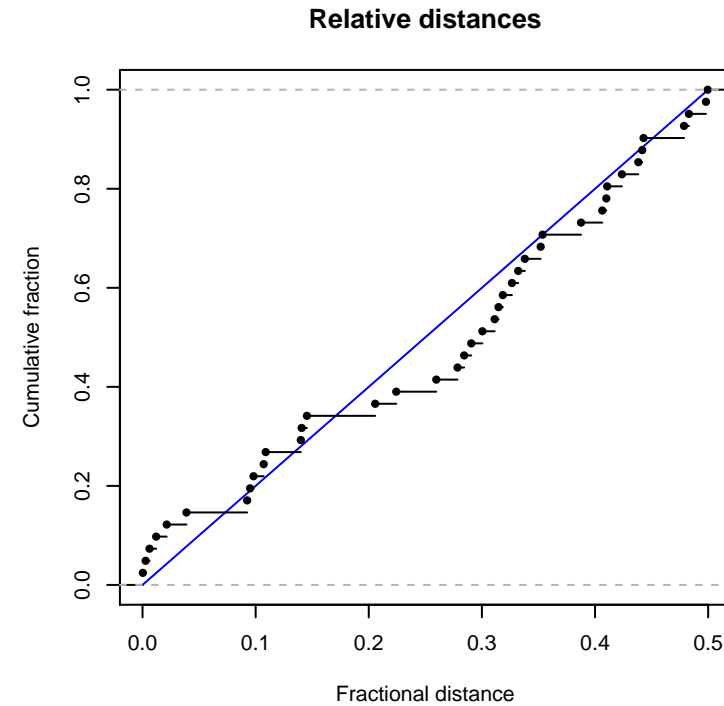
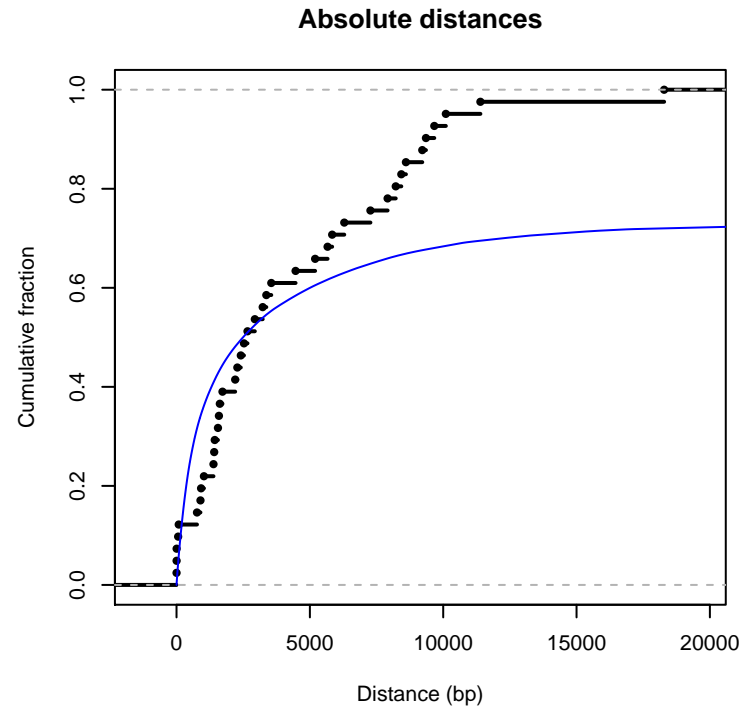
pcontig_004

Query population : 39
Reference population : 1370
Relative Ks p-value : 0.847669
Relative ecdf deviation area : 0.015405
Relative ecdf area correlation : 0.0241656
Relative ecdf deviation area p-value : 0.82
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 : 0.125132
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.679699



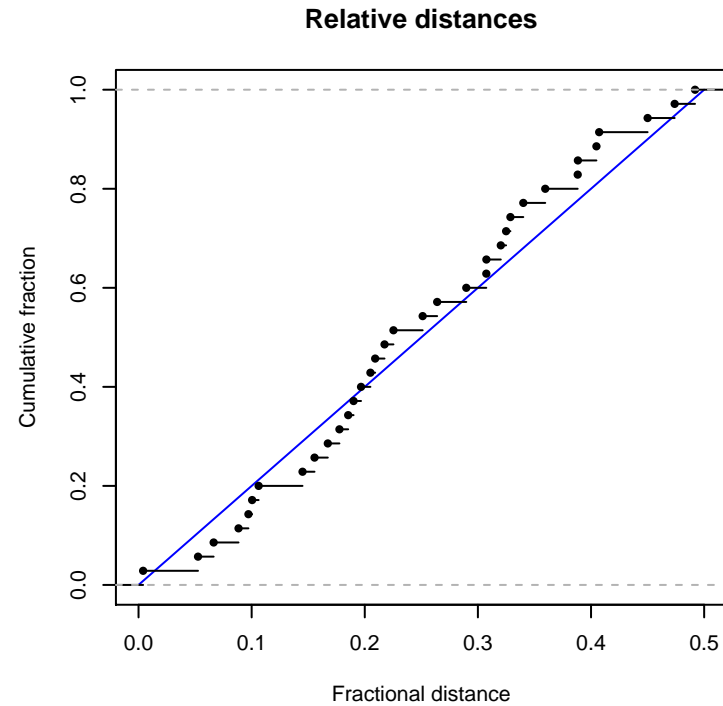
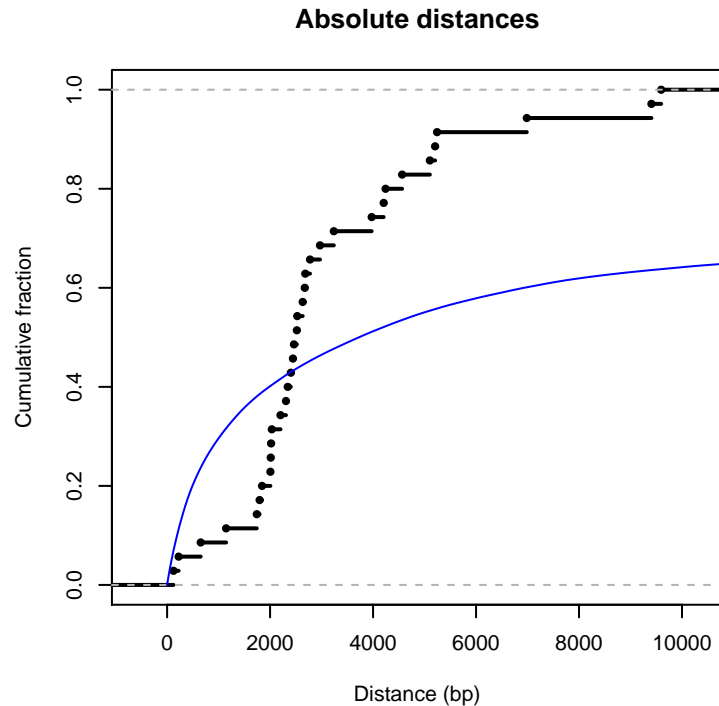
pcontig_005

Query population : 41
Reference population : 1300
Relative Ks p-value : 0.344905
Relative ecdf deviation area : 0.0237418
Relative ecdf area correlation : -0.0556011
Relative ecdf deviation area p-value : 0.44
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0422055
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.563657



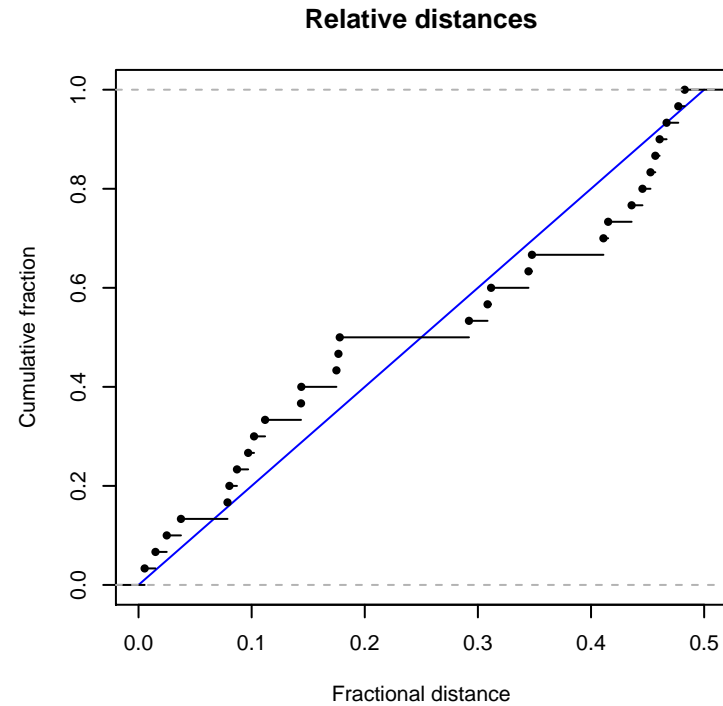
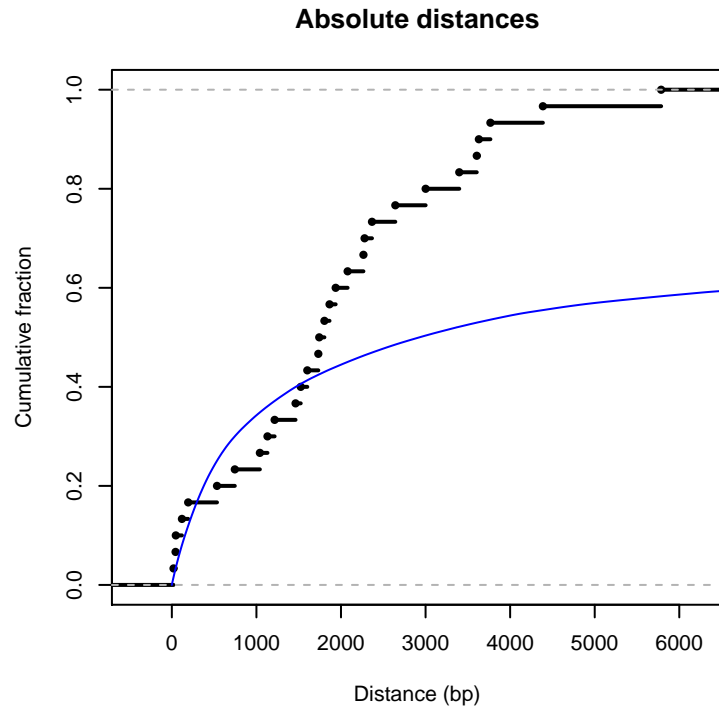
pcontig_006

Query population : 35
Reference population : 1069
Relative Ks p-value : 0.842084
Relative ecdf deviation area : 0.020772
Relative ecdf area correlation : 0.00711821
Relative ecdf deviation area p-value : 0.68
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.48
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0453541
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.463962



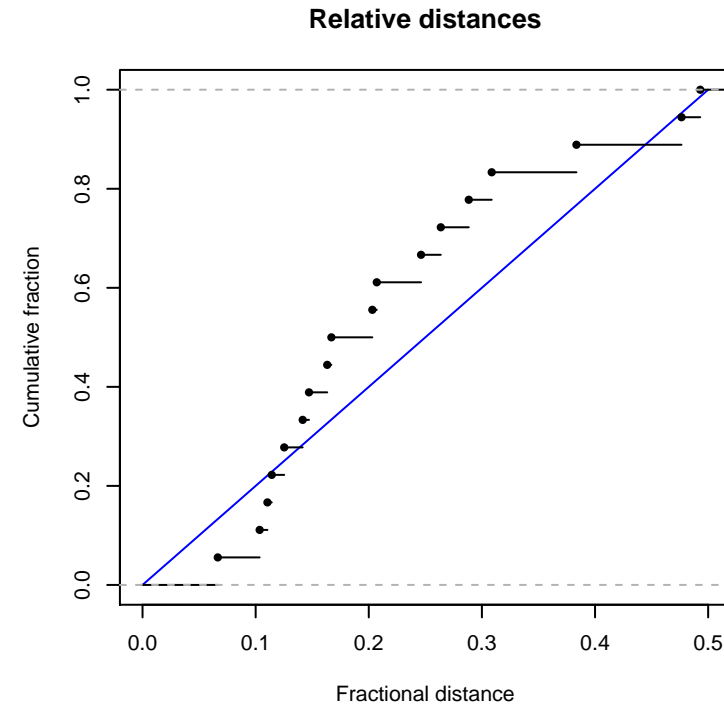
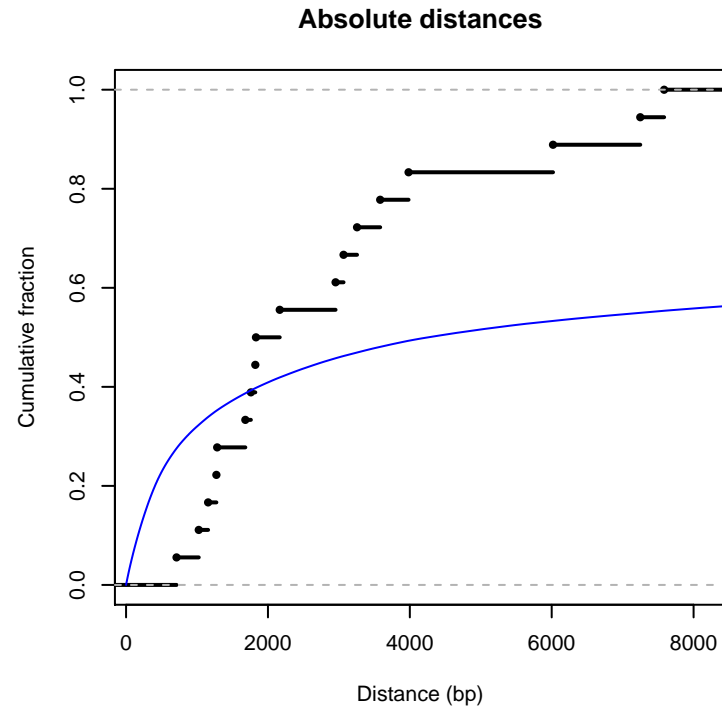
pcontig_007

Query population : 30
Reference population : 1310
Relative Ks p-value : 0.421978
Relative ecdf deviation area : 0.03099
Relative ecdf area correlation : -0.00879858
Relative ecdf deviation area p-value : 0.35
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.276176
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.774407



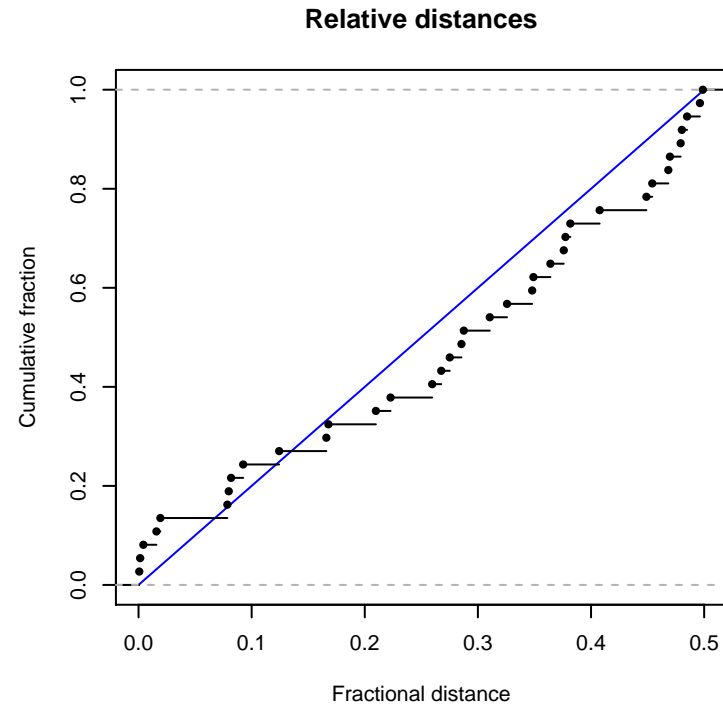
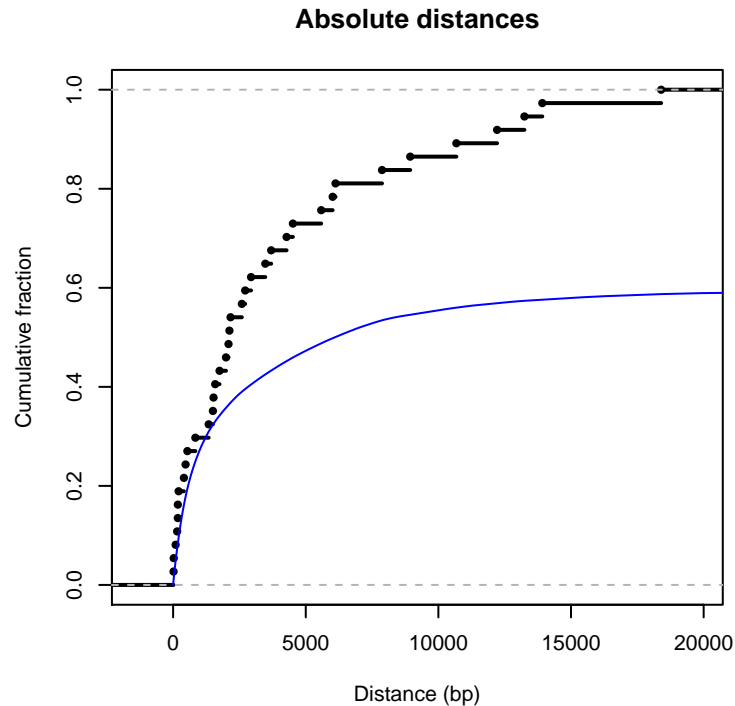
pcontig_008

Query population : 18
Reference population : 1175
Relative Ks p-value : 0.322574
Relative ecdf deviation area : 0.0492792
Relative ecdf area correlation : 0.109092
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 : 0.24
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.110571
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.422326



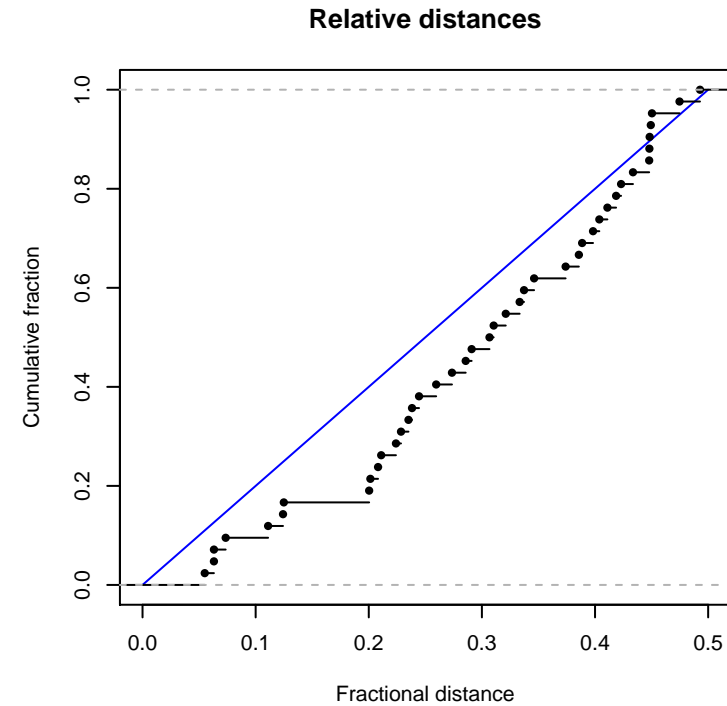
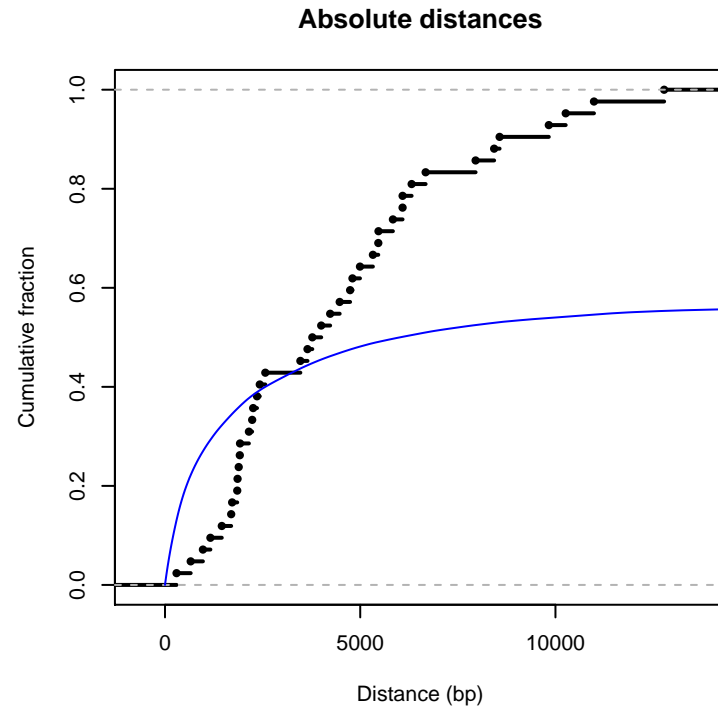
pcontig_009

Query population : 37
Reference population : 954
Relative Ks p-value : 0.414001
Relative ecdf deviation area : 0.0342704
Relative ecdf area correlation : -0.0984582
Relative ecdf deviation area p-value : 0.23
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.1
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.144499
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.2566



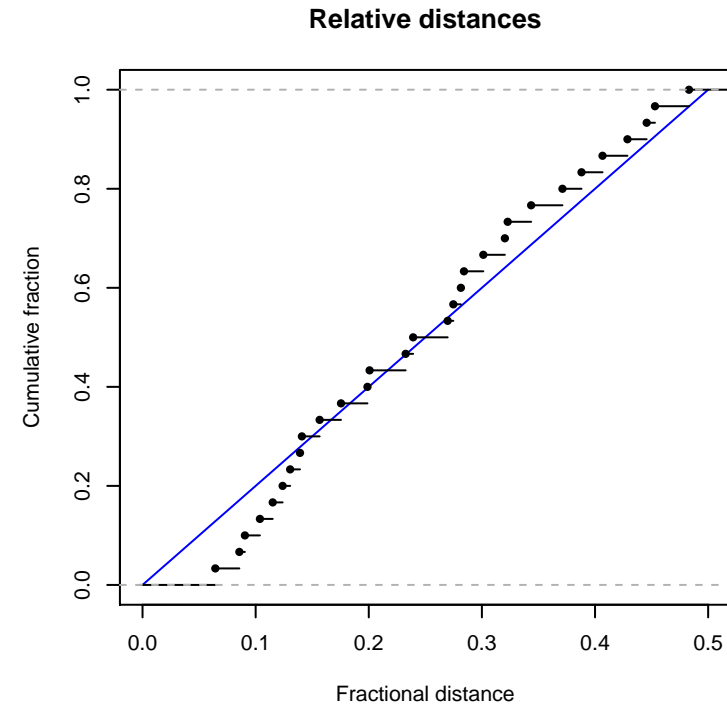
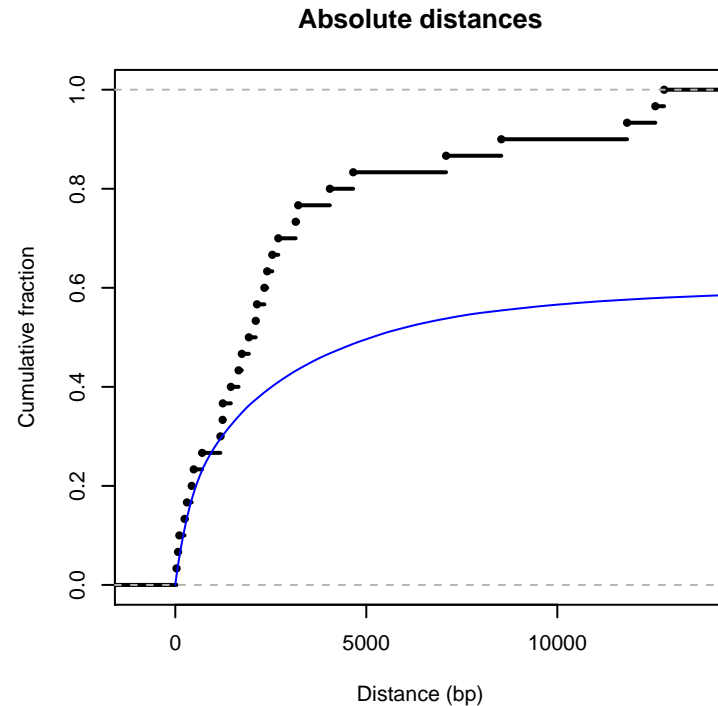
pcontig_010

Query population : 42
Reference population : 972
Relative Ks p-value : 0.0166484
Relative ecdf deviation area : 0.0503119
Relative ecdf area correlation : -0.192234
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 : TRUE
Projection test p-value : 0.00025777
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.104515



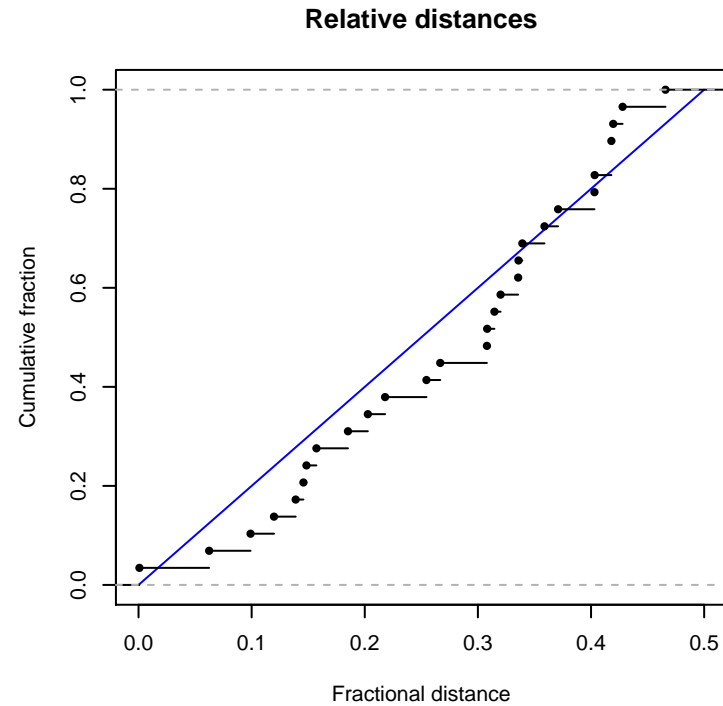
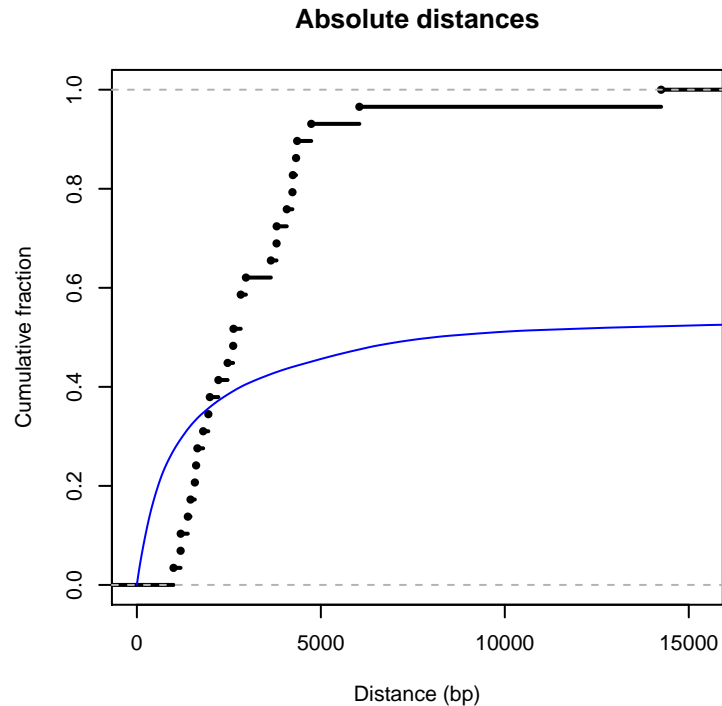
pcontig_011

Query population : 30
Reference population : 1007
Relative Ks p-value : 0.57147
Relative ecdf deviation area : 0.0221289
Relative ecdf area correlation : -0.00951429
Relative ecdf deviation area p-value : 0.59
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.311295
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.08275



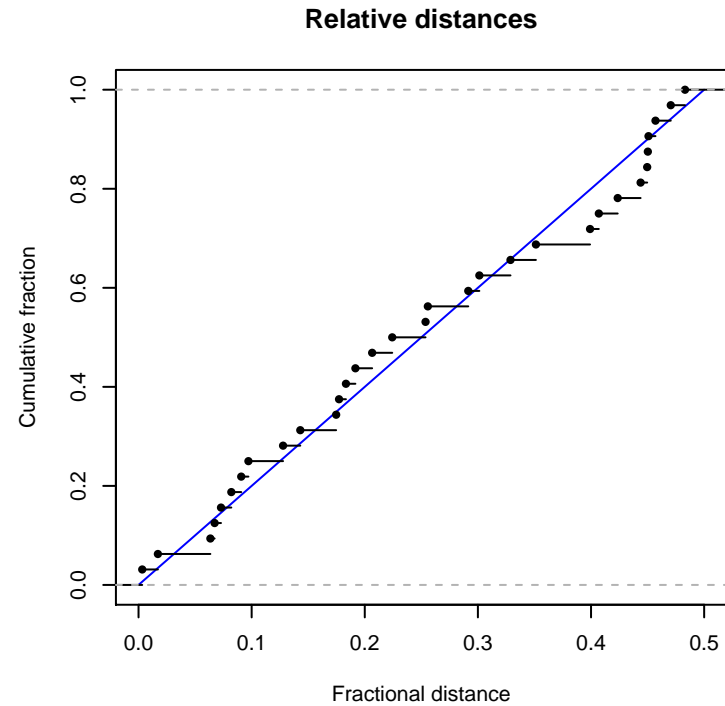
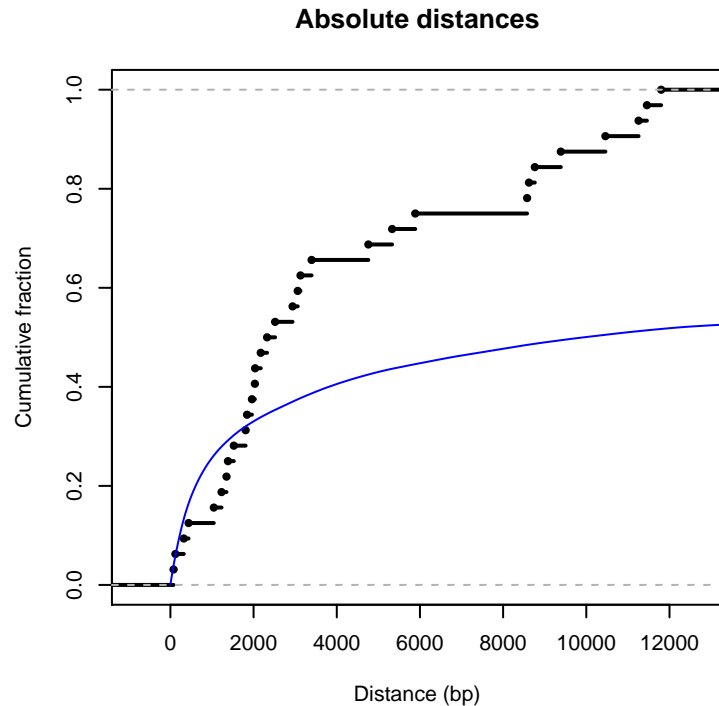
pcontig_012

Query population : 29
Reference population : 897
Relative Ks p-value : 0.349035
Relative ecdf deviation area : 0.0347214
Relative ecdf area correlation : -0.0960545
Relative ecdf deviation area p-value : 0.29
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.000674876
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



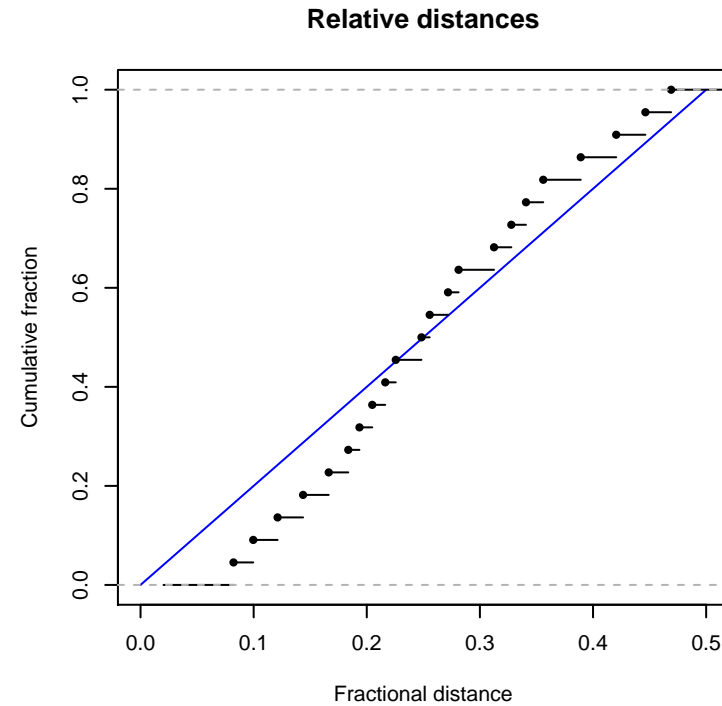
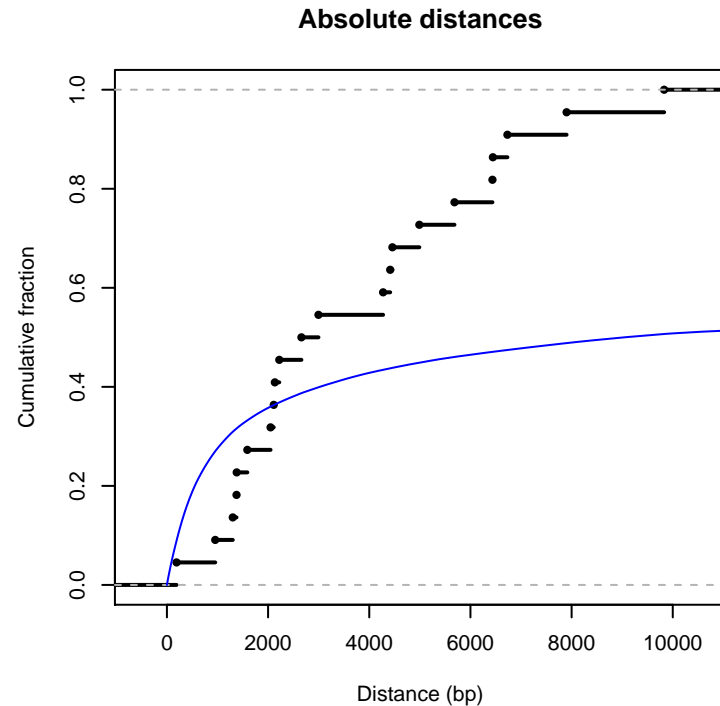
pcontig_013

Query population : 32
Reference population : 936
Relative Ks p-value : 0.787001
Relative ecdf deviation area : 0.0155334
Relative ecdf area correlation : -0.0174488
Relative ecdf deviation area p-value : 0.94
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.1
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.463137
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.880838



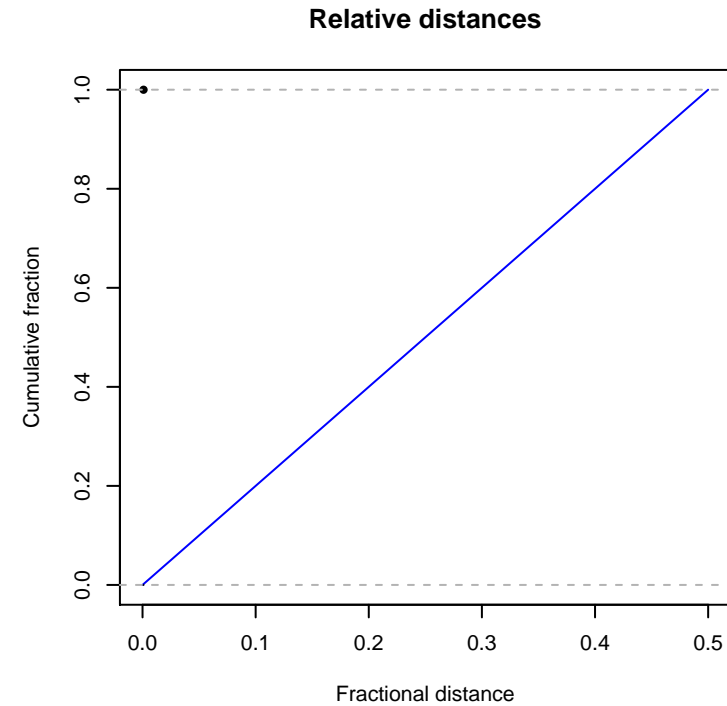
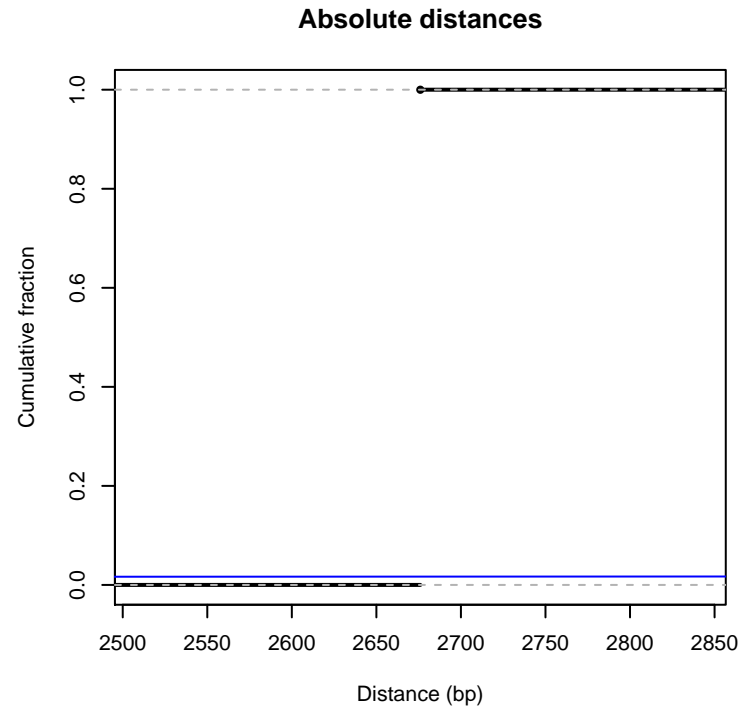
pcontig_014

Query population : 22
Reference population : 941
Relative Ks p-value : 0.537779
Relative ecdf deviation area : 0.0349326
Relative ecdf area correlation : -0.0465455
Relative ecdf deviation area p-value : 0.38
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.11
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0679265
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.372081



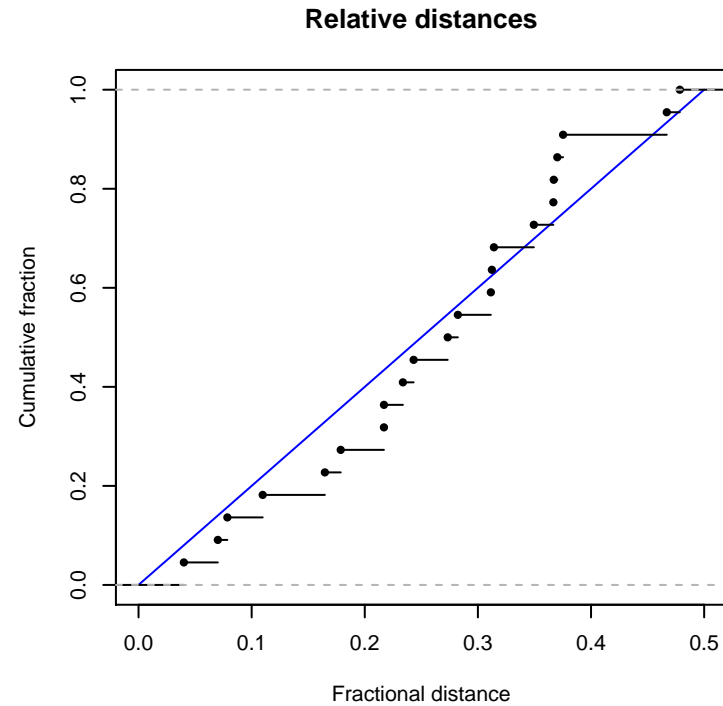
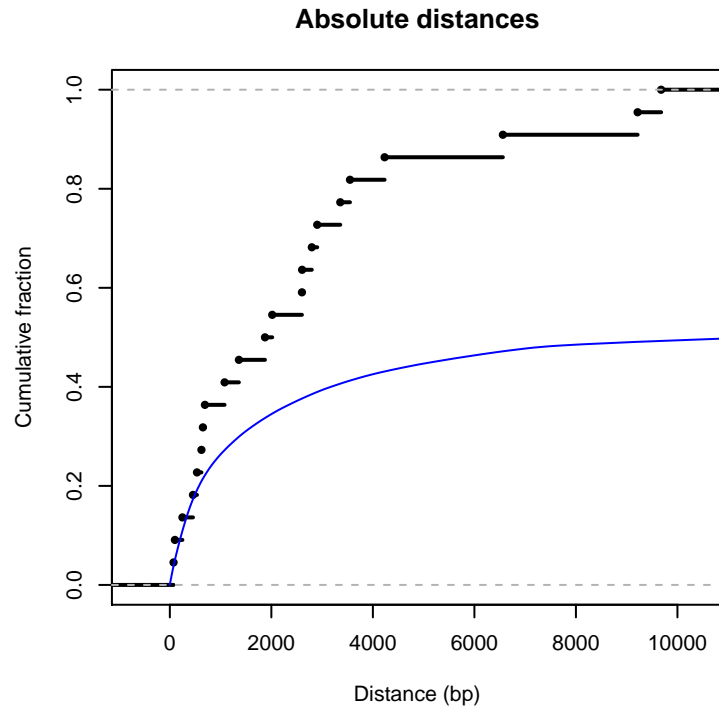
pcontig_015

Query population : 1
Reference population : 62
Relative Ks p-value : 0.00354003
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.99646
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : 0.02
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0134096
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



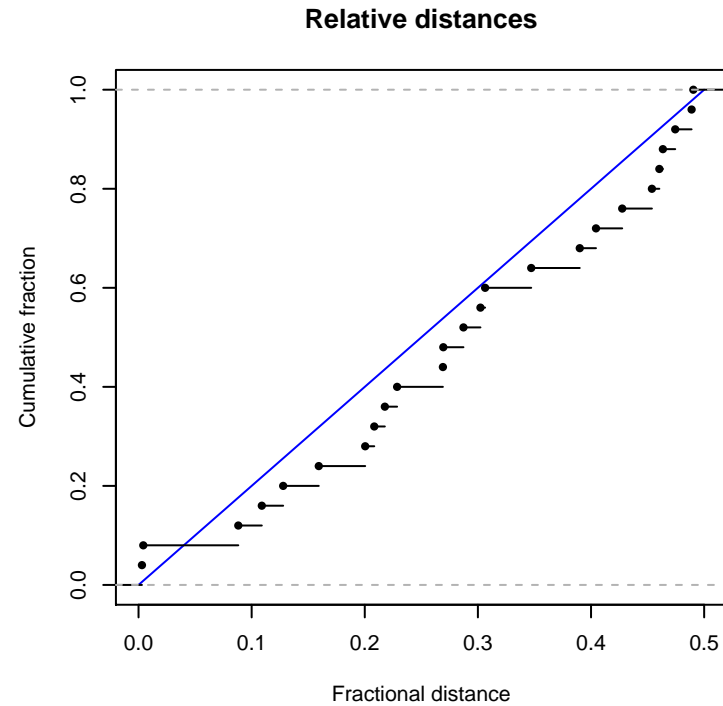
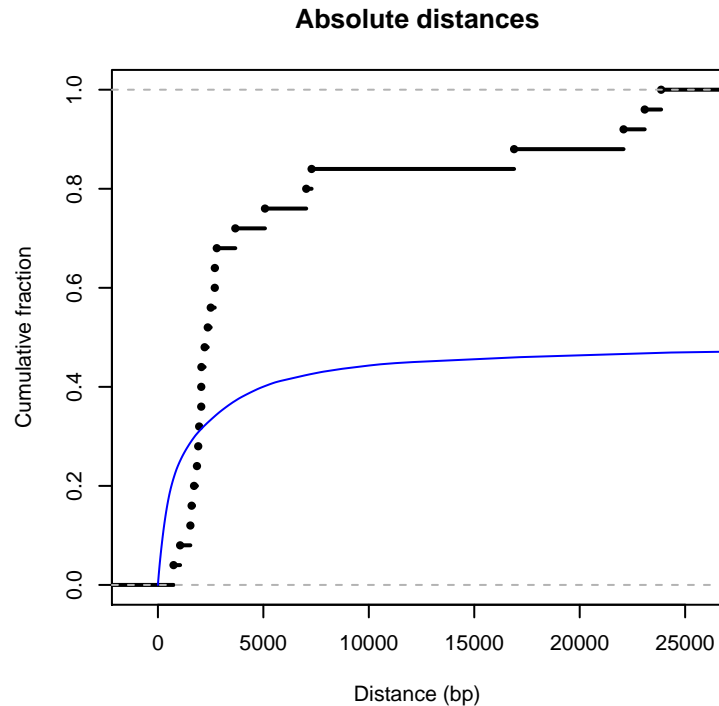
pcontig_016

Query population : 22
Reference population : 956
Relative Ks p-value : 0.562771
Relative ecdf deviation area : 0.0319744
Relative ecdf area correlation : -0.0582619
Relative ecdf deviation area p-value : 0.48
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.13
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0461528
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.58442



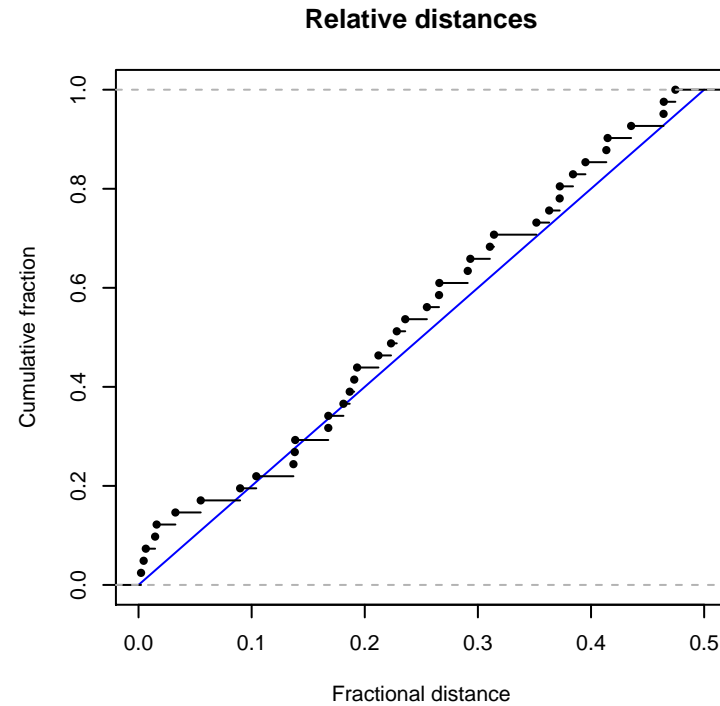
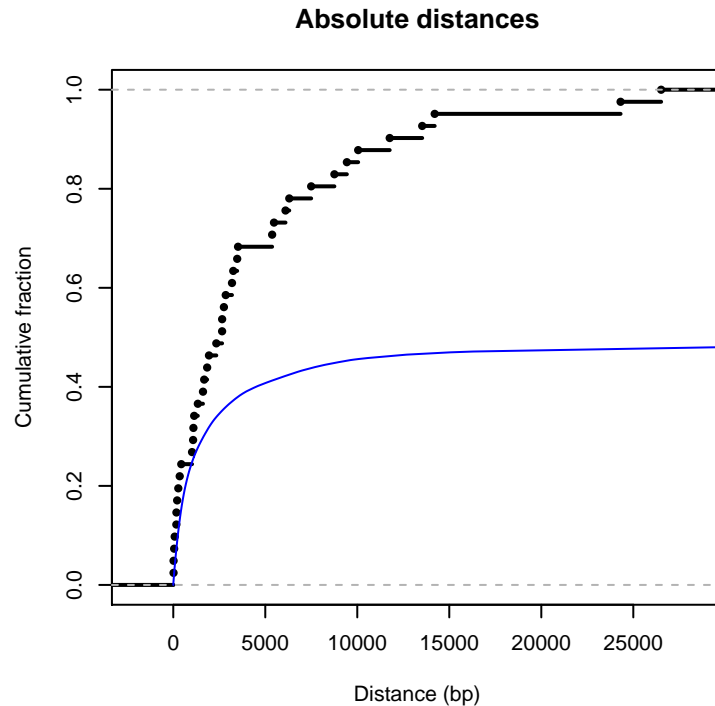
pcontig_017

Query population : 25
Reference population : 912
Relative Ks p-value : 0.488544
Relative ecdf deviation area : 0.0400495
Relative ecdf area correlation : -0.149056
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 : 0.02
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0307976
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.204663



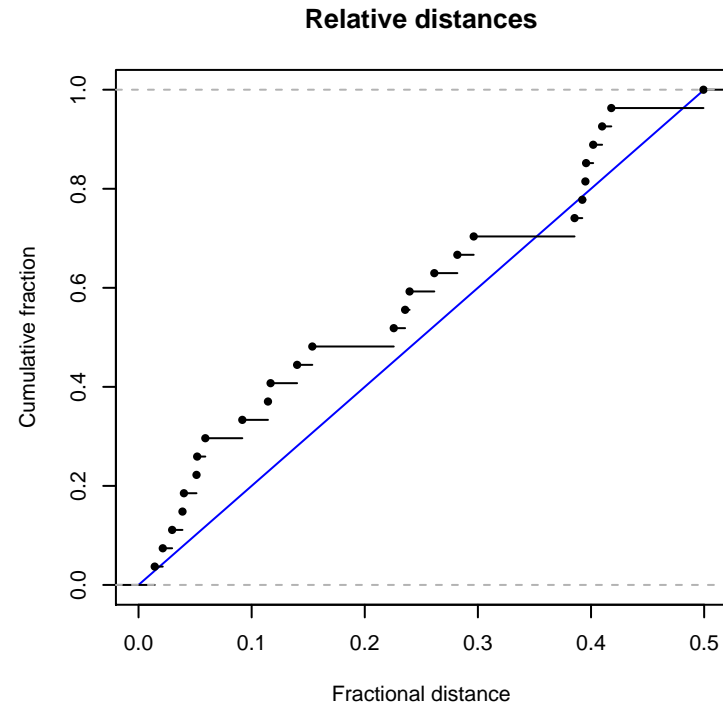
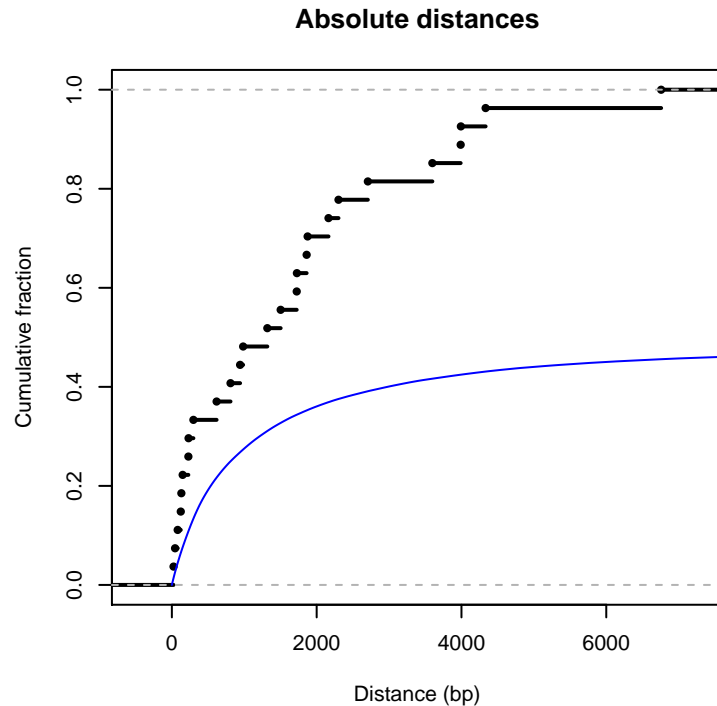
pcontig_018

Query population : 41
Reference population : 854
Relative Ks p-value : 0.864931
Relative ecdf deviation area : 0.0175633
Relative ecdf area correlation : 0.0608354
Relative ecdf deviation area p-value : 0.66
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0885999
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.35177



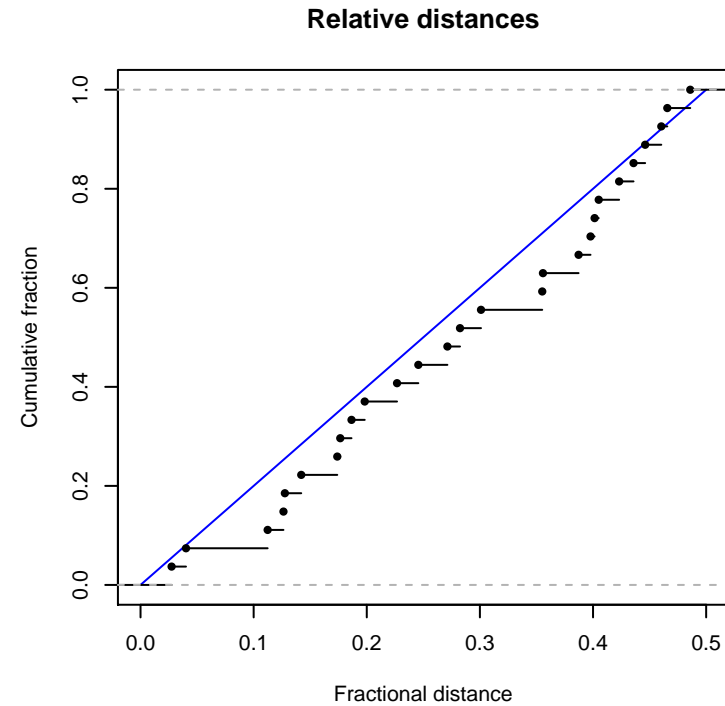
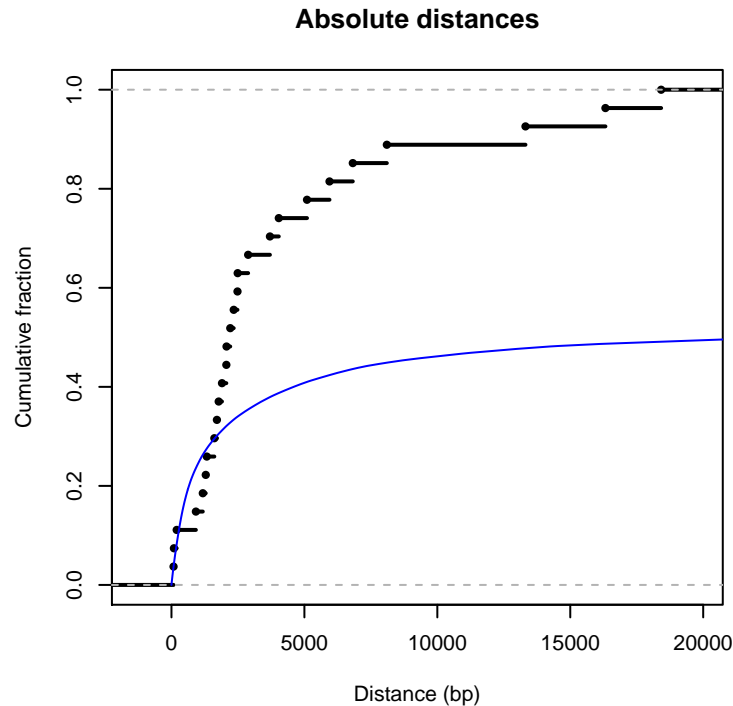
pcontig_019

Query population : 27
Reference population : 1007
Relative Ks p-value : 0.319013
Relative ecdf deviation area : 0.0407837
Relative ecdf area correlation : 0.14649
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 : 0.13
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00718727
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.79352



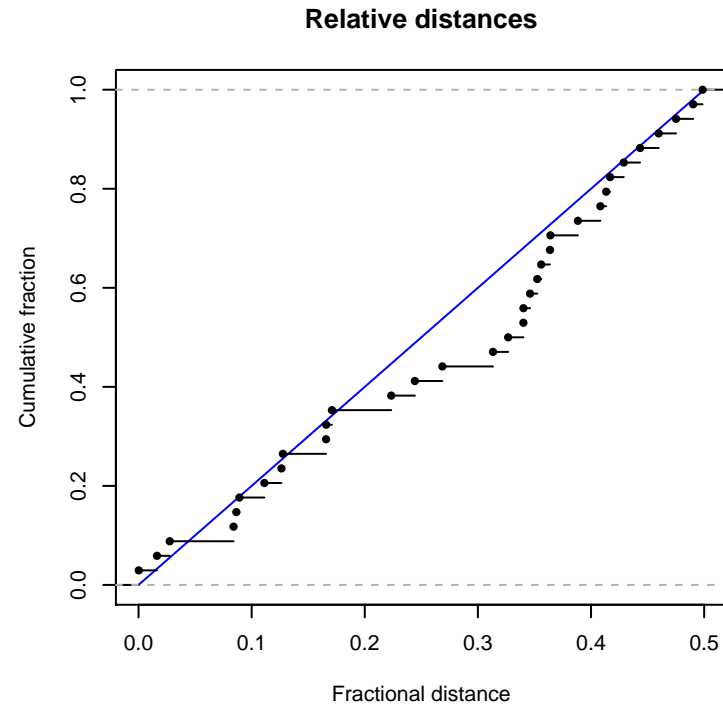
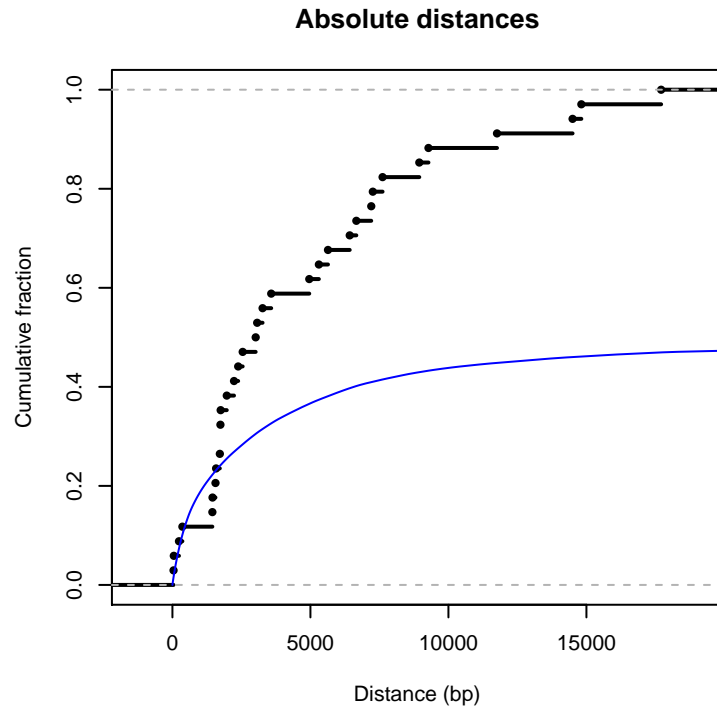
pcontig_020

Query population : 27
Reference population : 826
Relative Ks p-value : 0.490555
Relative ecdf deviation area : 0.034174
Relative ecdf area correlation : -0.134447
Relative ecdf deviation area p-value : 0.3
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.160271
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.536848



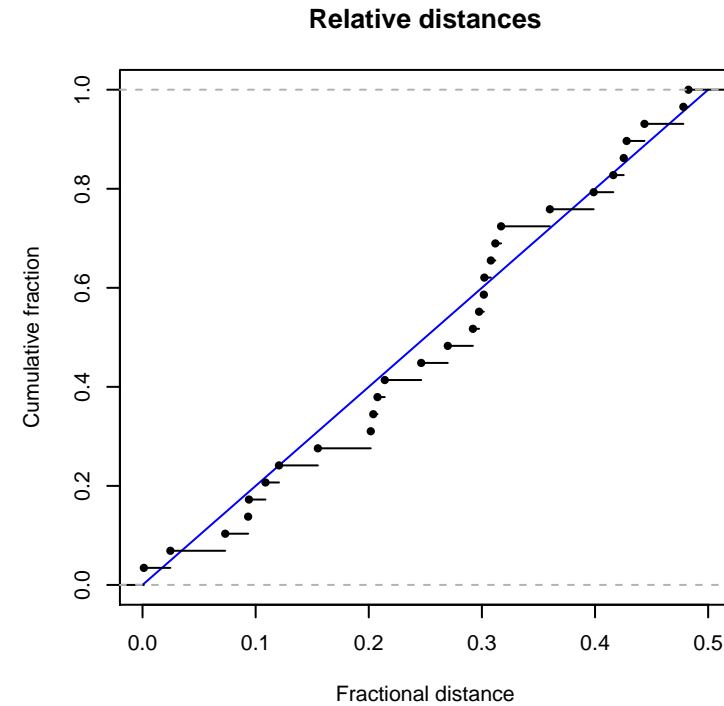
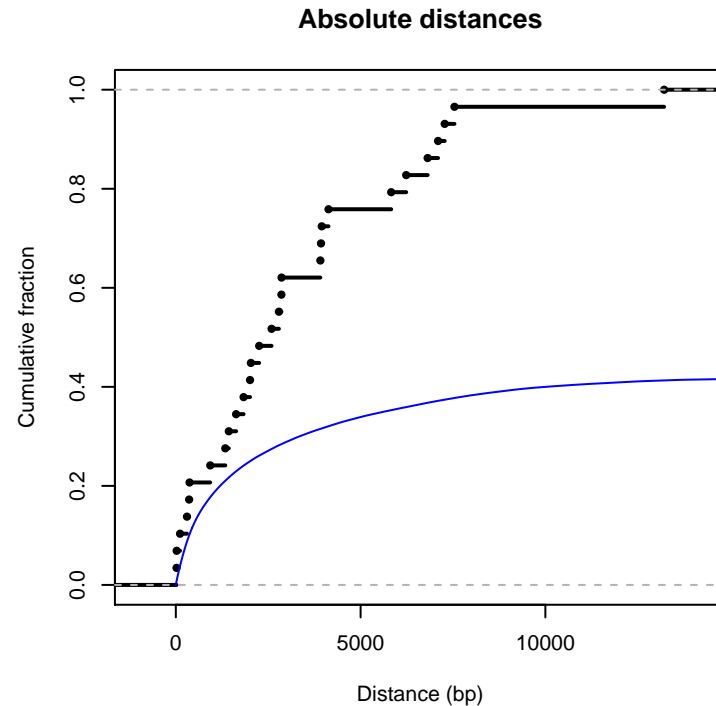
pcontig_021

Query population : 34
Reference population : 659
Relative Ks p-value : 0.169354
Relative ecdf deviation area : 0.0286022
Relative ecdf area correlation : -0.109867
Relative ecdf deviation area p-value : 0.34
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.2
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.427665
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0.955801



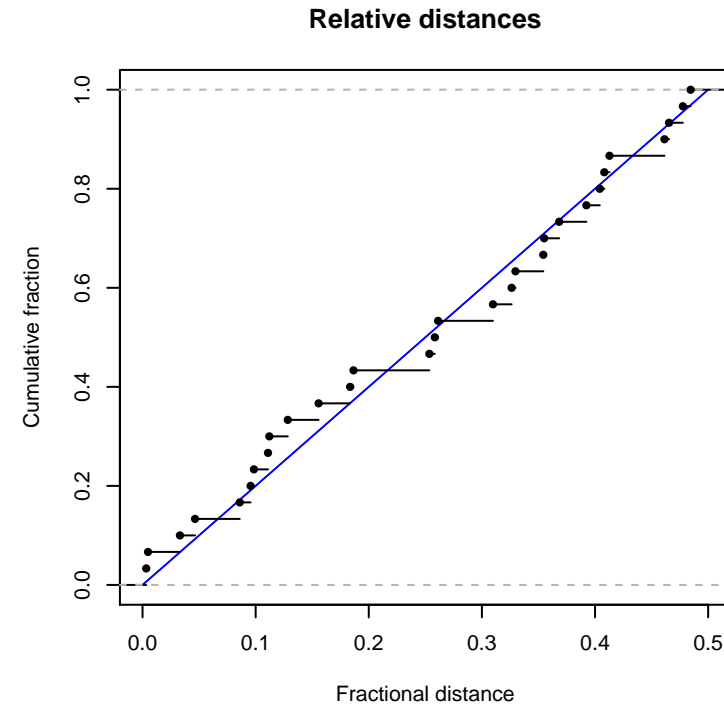
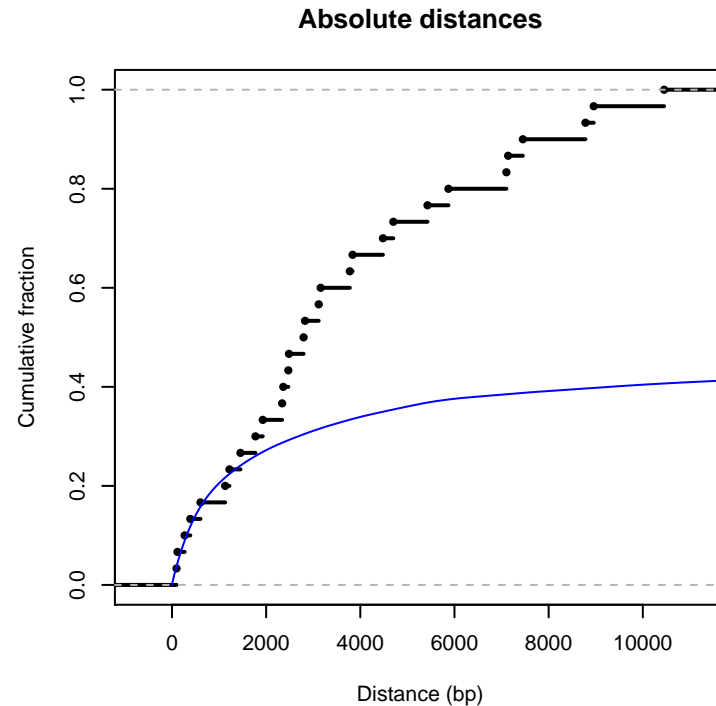
pcontig_022

Query population : 29
Reference population : 643
Relative Ks p-value : 0.685482
Relative ecdf deviation area : 0.0205531
Relative ecdf area correlation : -0.0451382
Relative ecdf deviation area p-value : 0.76
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 : 0.0445647
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.63298



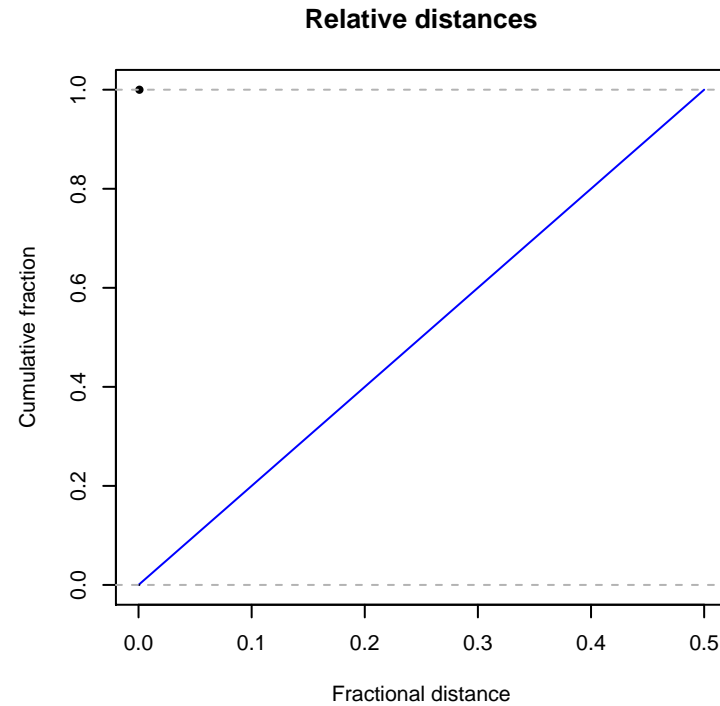
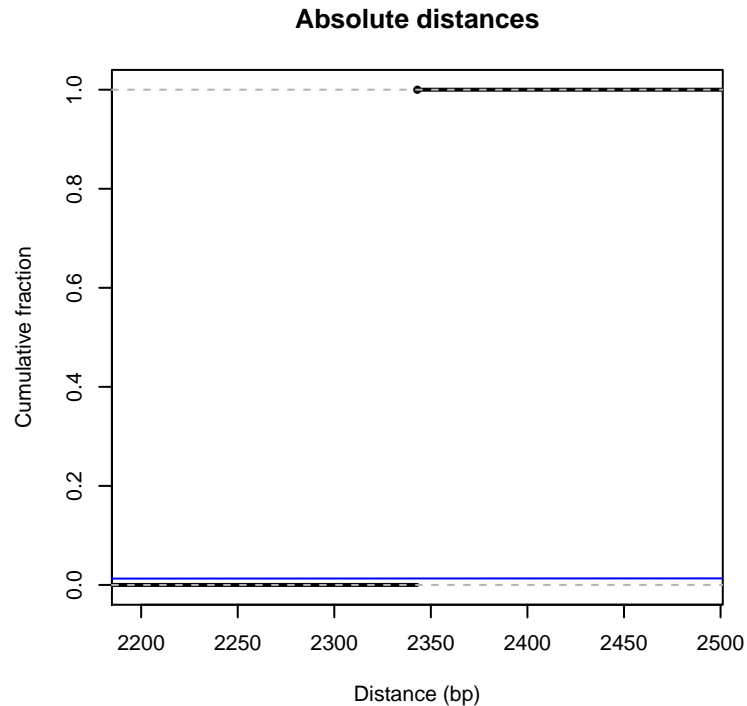
pcontig_023

Query population : 30
Reference population : 747
Relative Ks p-value : 0.964727
Relative ecdf deviation area : 0.0141343
Relative ecdf area correlation : -0.00901629
Relative ecdf deviation area p-value : 0.91
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.206194
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.22806



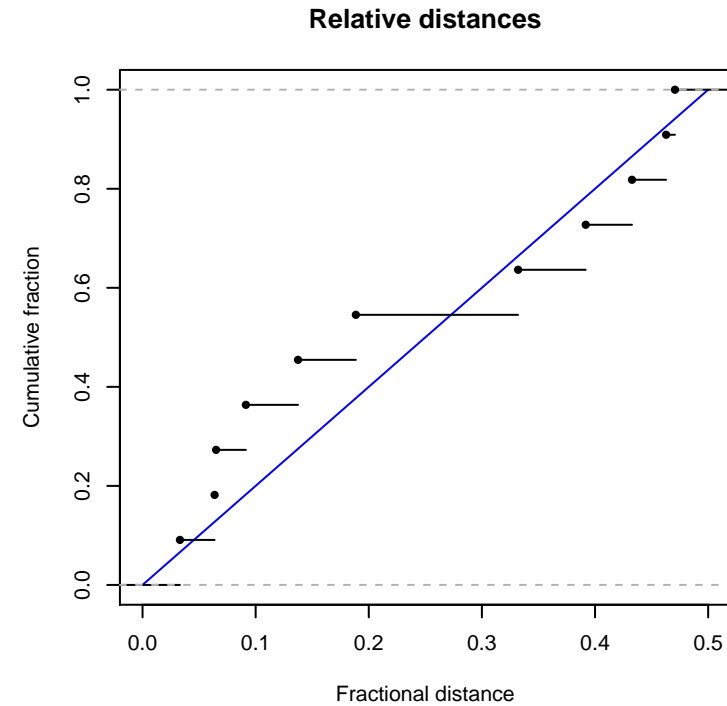
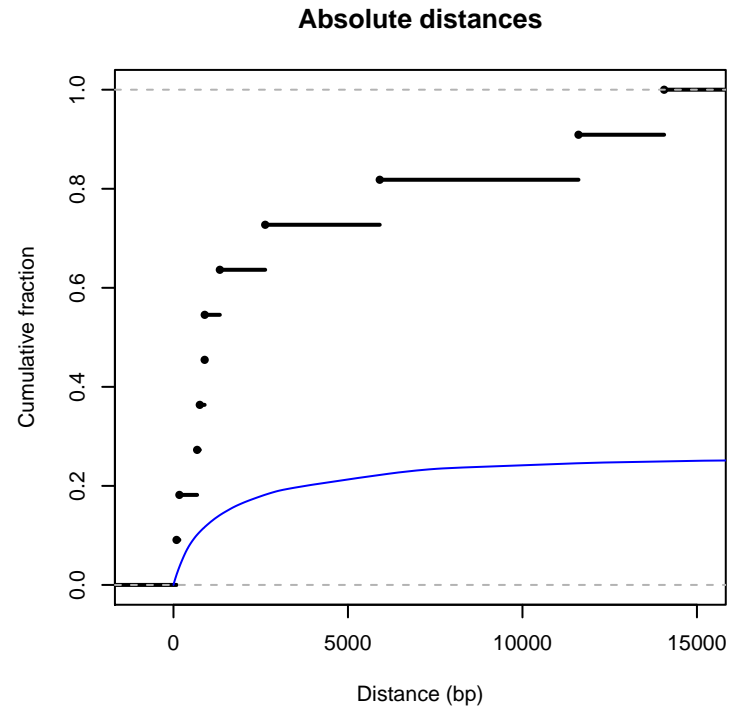
pcontig_024

Query population : 1
Reference population : 34
Relative Ks p-value : 0.00308561
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.996914
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.010359
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



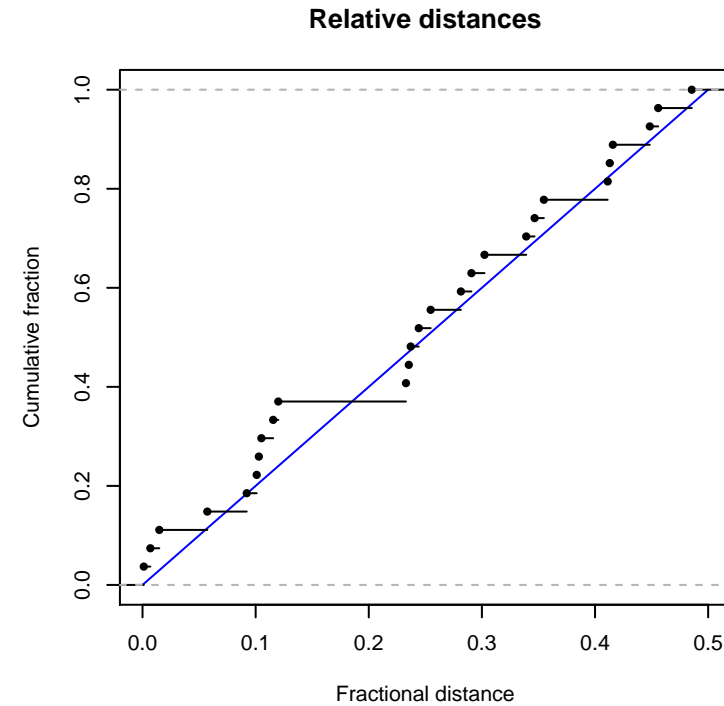
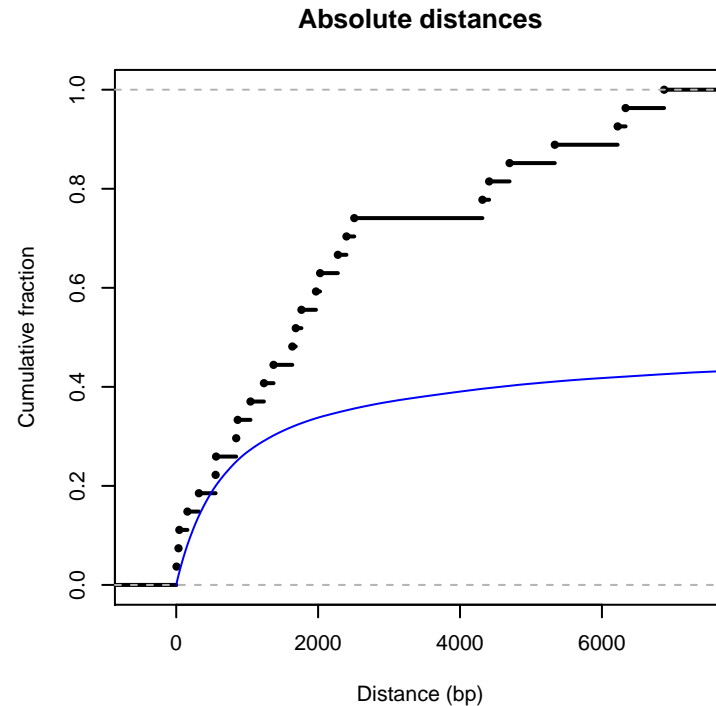
pcontig_025

Query population : 11
Reference population : 424
Relative Ks p-value : 0.803533
Relative ecdf deviation area : 0.0397035
Relative ecdf area correlation : 0.0293917
Relative ecdf deviation area p-value : 0.67
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00686372
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.95374



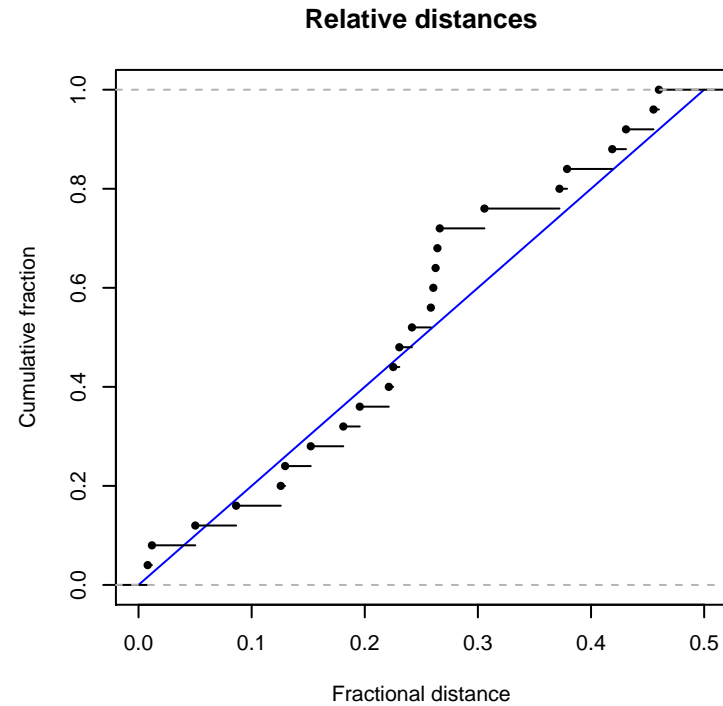
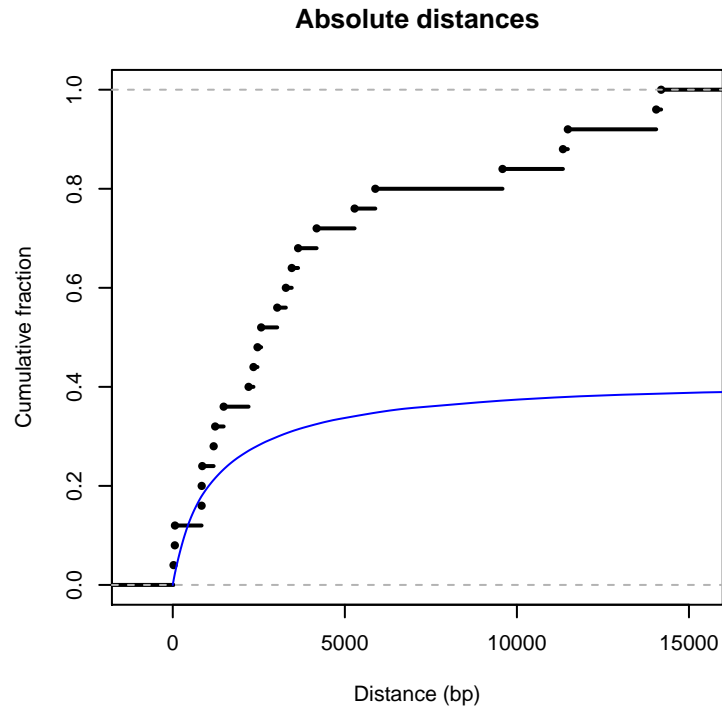
pcontig_026

Query population : 27
Reference population : 1040
Relative Ks p-value : 0.700351
Relative ecdf deviation area : 0.018242
Relative ecdf area correlation : 0.0421365
Relative ecdf deviation area p-value : 0.85
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 : 0.260079
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.13762



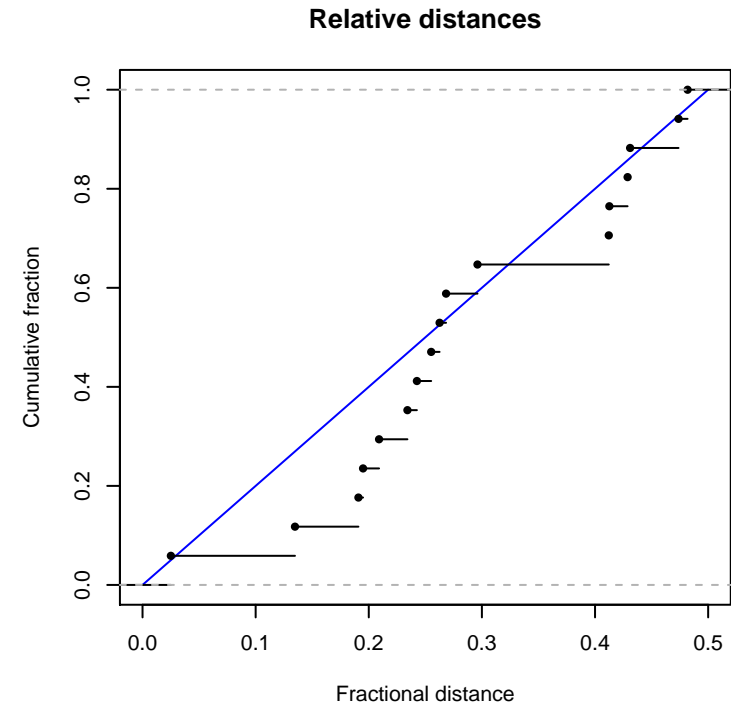
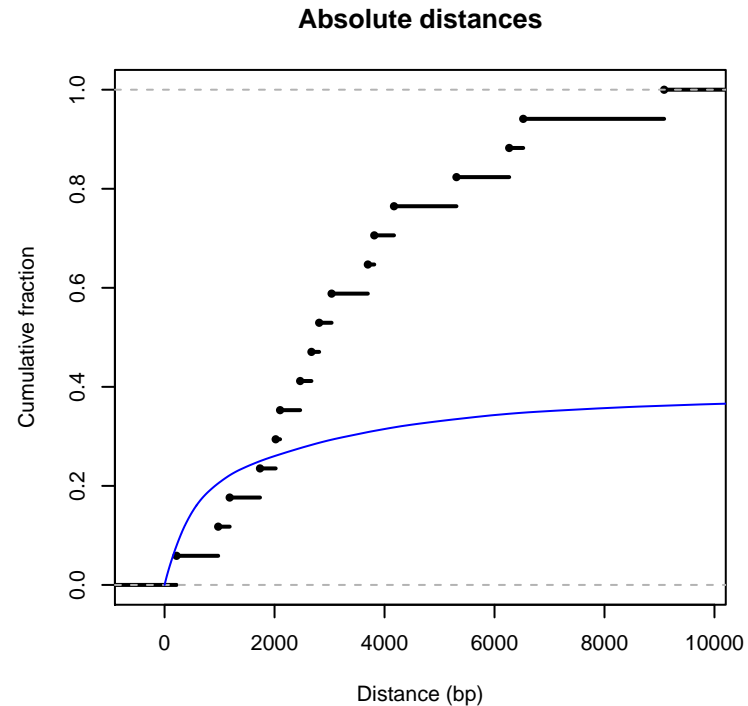
pcontig_027

Query population : 25
Reference population : 667
Relative Ks p-value : 0.304249
Relative ecdf deviation area : 0.0274441
Relative ecdf area correlation : 0.0411316
Relative ecdf deviation area p-value : 0.51
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.14
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.215443
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.22184



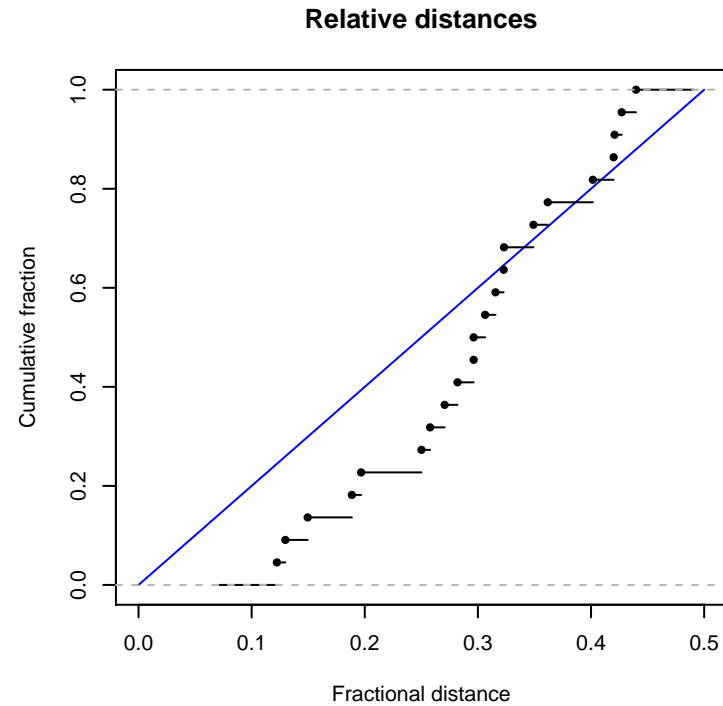
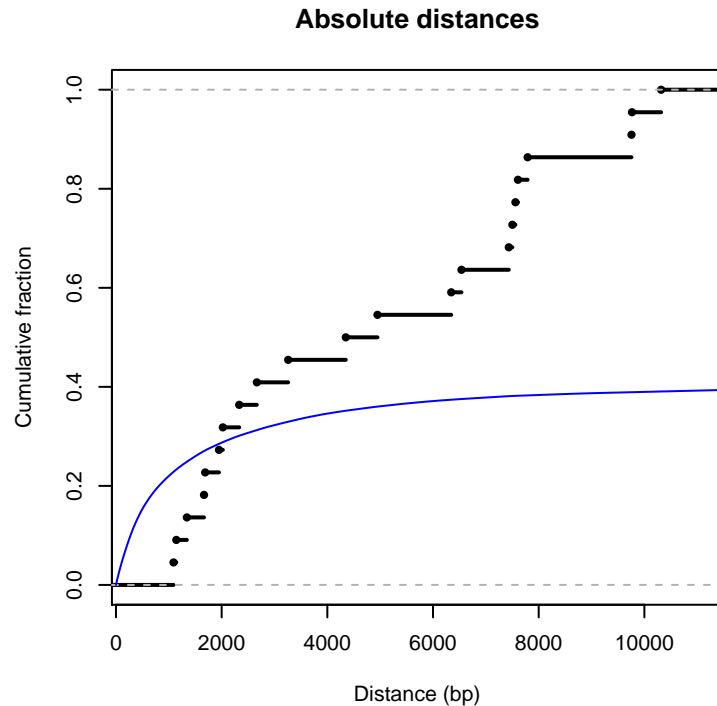
pcontig_028

Query population : 17
Reference population : 761
Relative Ks p-value : 0.155328
Relative ecdf deviation area : 0.045073
Relative ecdf area correlation : -0.165621
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 : 0.03
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.193292
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.349321



pcontig_029

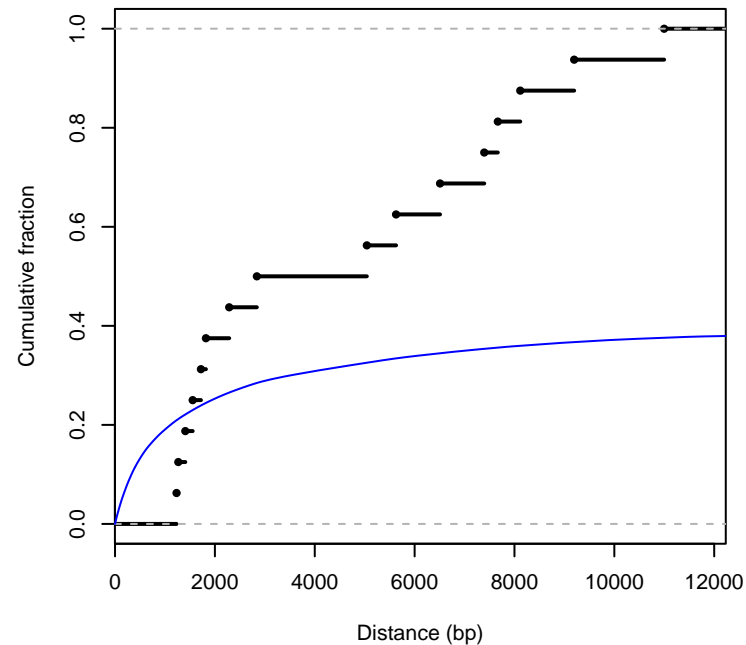
Query population : 22
Reference population : 791
Relative Ks p-value : 0.0613075
Relative ecdf deviation area : 0.0593492
Relative ecdf area correlation : -0.186886
Relative ecdf deviation area p-value : 0.02
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.00727735
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



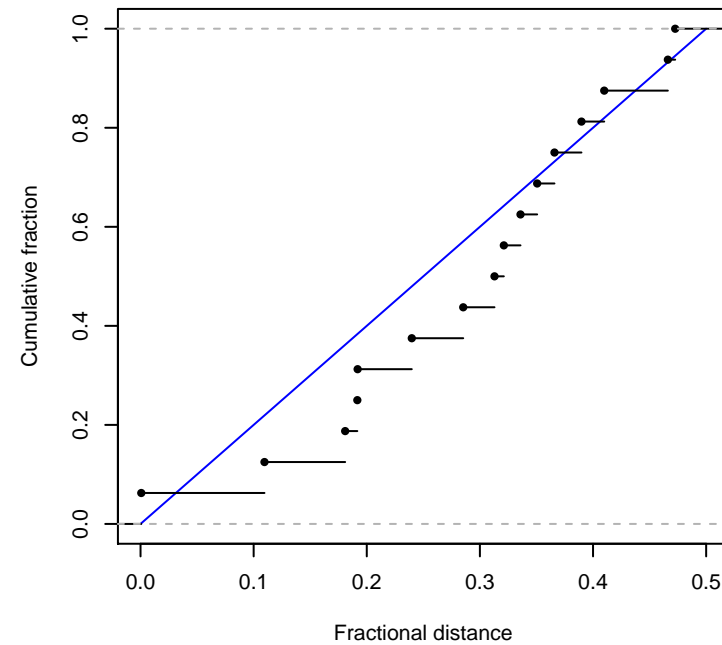
pcontig_030

Query population : 16
Reference population : 715
Relative Ks p-value : 0.283621
Relative ecdf deviation area : 0.0450469
Relative ecdf area correlation : -0.156179
Relative ecdf deviation area p-value : 0.25
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.1
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.237754
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.382661

Absolute distances

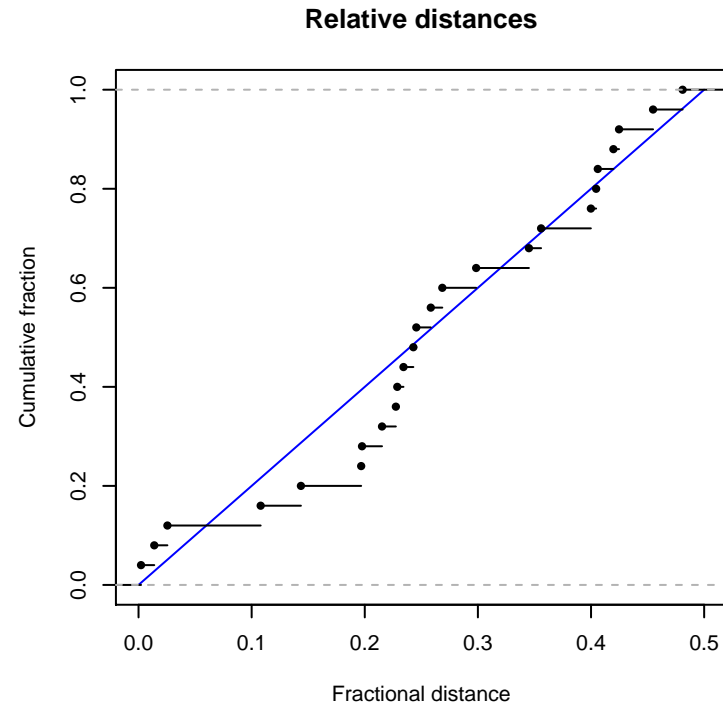
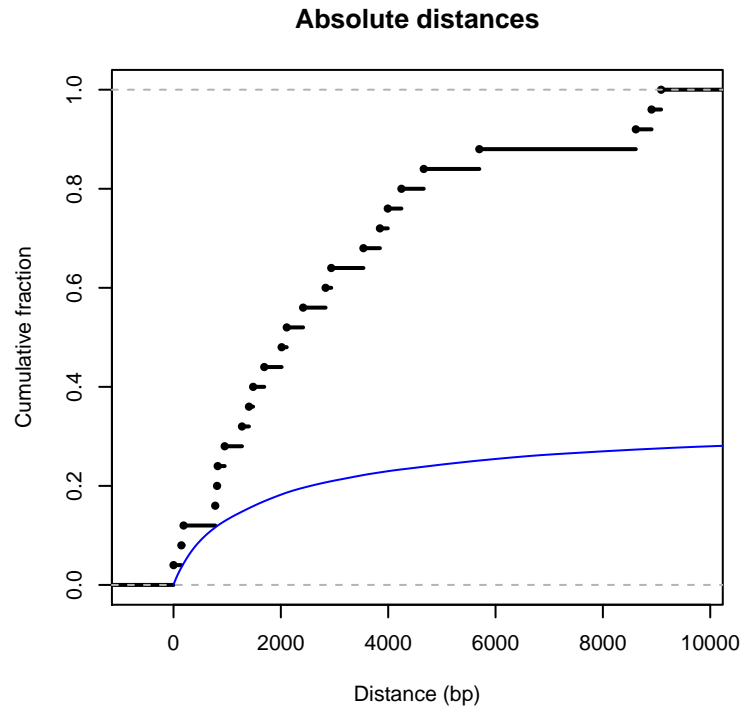


Relative distances



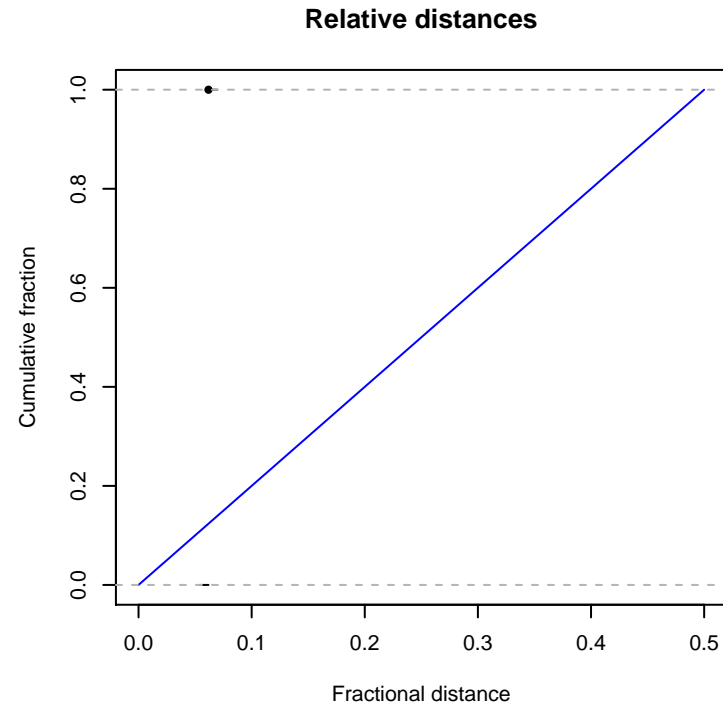
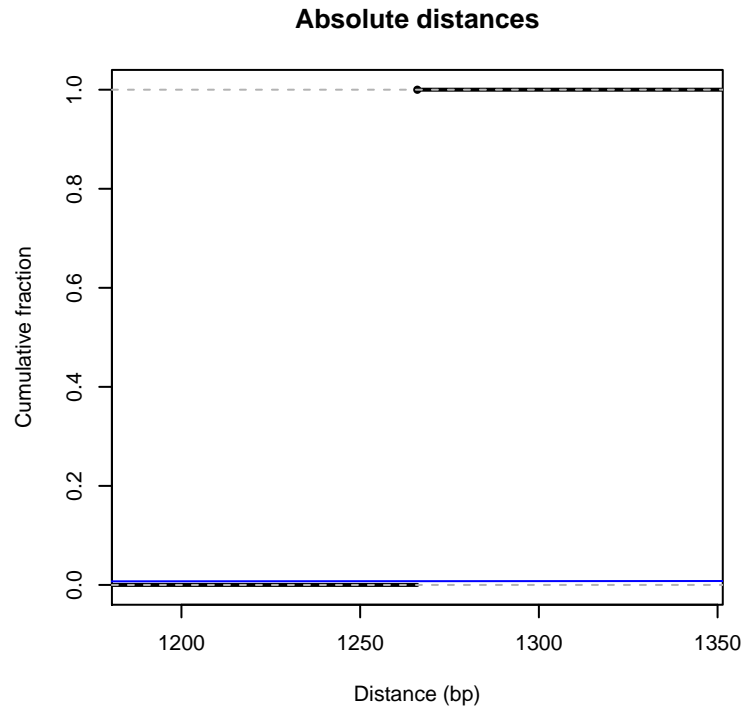
pcontig_031

Query population : 25
Reference population : 482
Relative Ks p-value : 0.269097
Relative ecdf deviation area : 0.0270145
Relative ecdf area correlation : -0.0557975
Relative ecdf deviation area p-value : 0.62
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.42
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.315738
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.05434



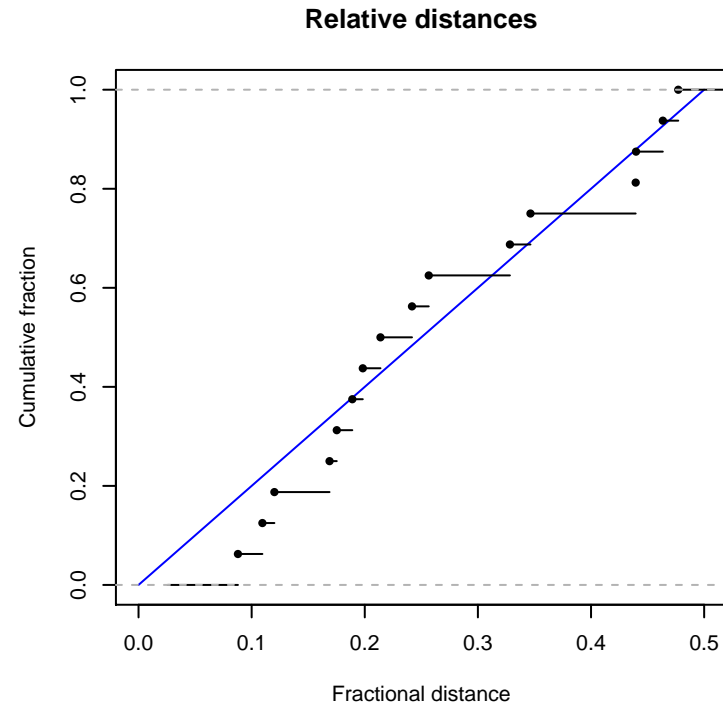
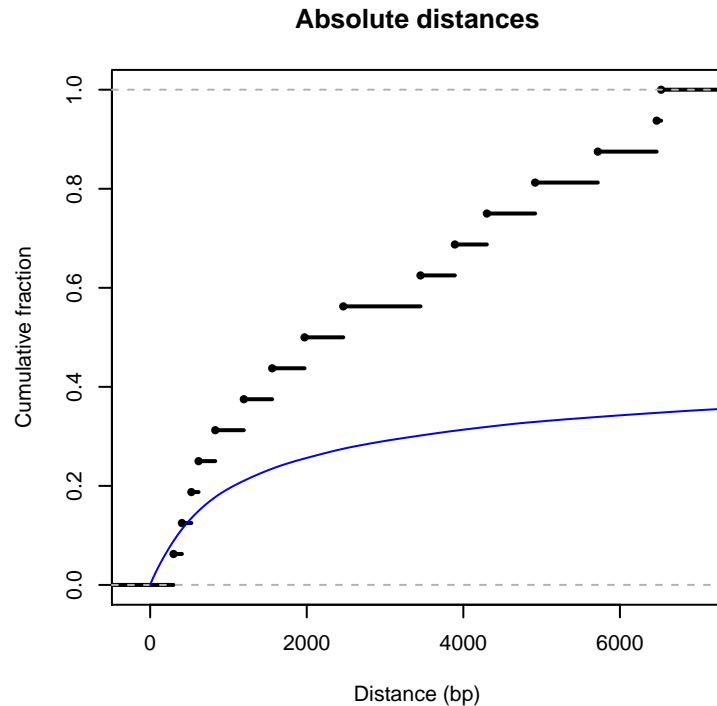
pcontig_032

Query population : 1
Reference population : 23
Relative Ks p-value : 0.247356
Relative ecdf deviation area : 0.195587
Relative ecdf area correlation : 0.752644
Relative ecdf deviation area p-value : 0.31
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 81.9761



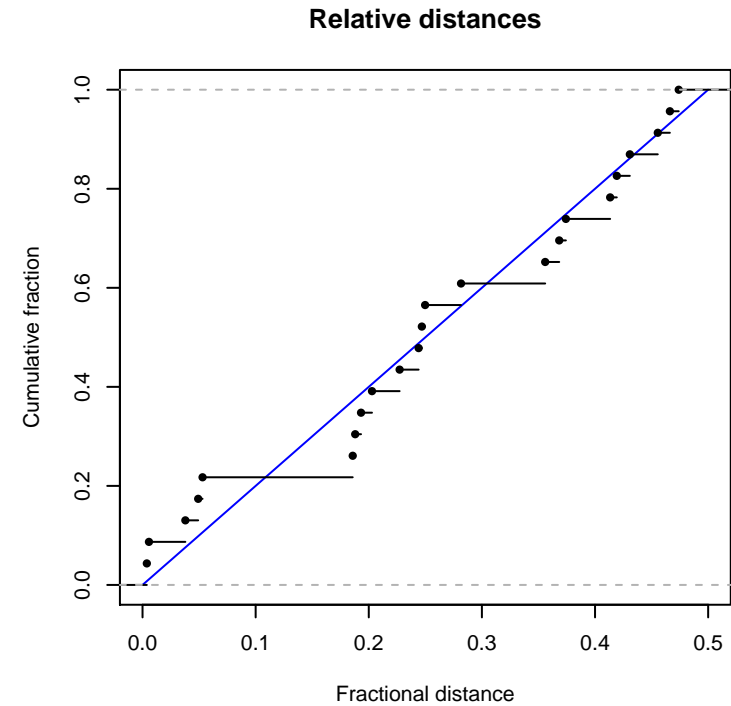
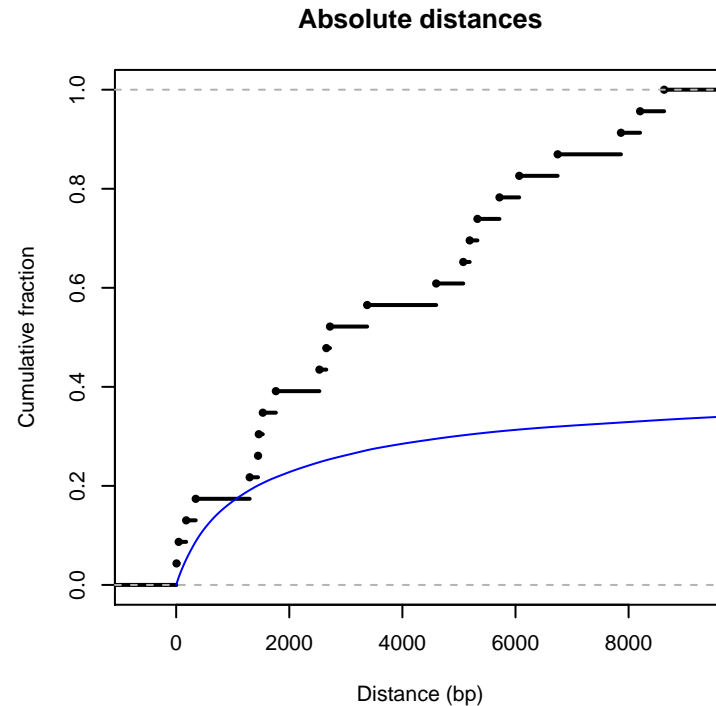
pcontig_033

Query population : 16
Reference population : 637
Relative Ks p-value : 0.643743
Relative ecdf deviation area : 0.0304964
Relative ecdf area correlation : -0.0639022
Relative ecdf deviation area p-value : 0.61
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.41
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.209765
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.25082



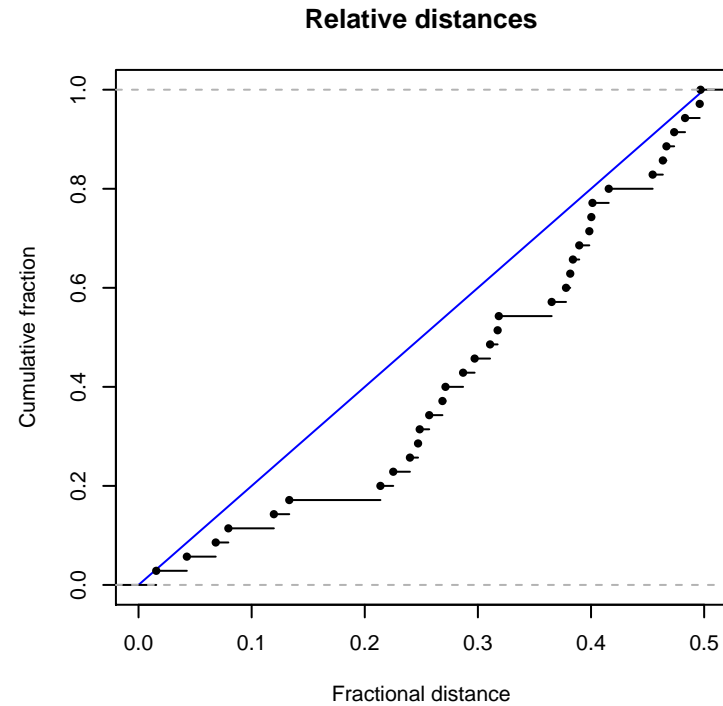
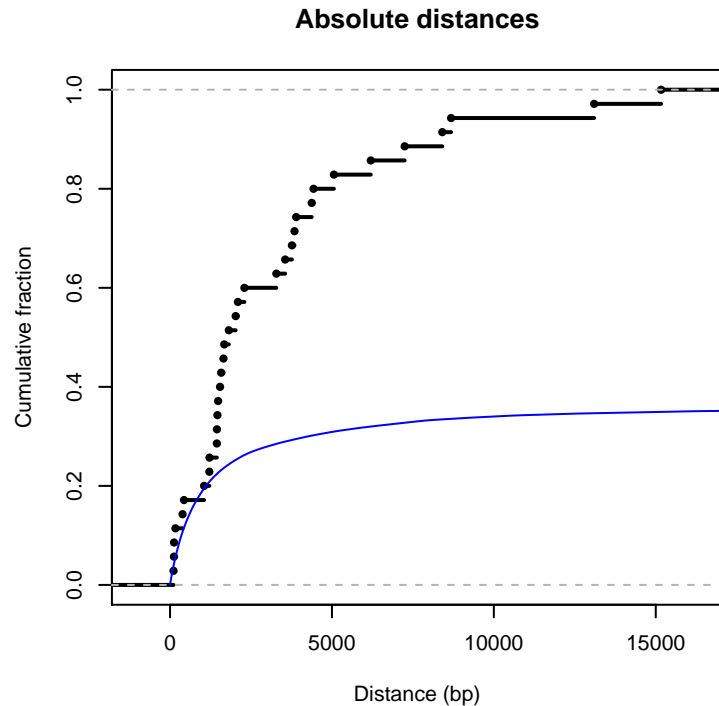
pcontig_034

Query population : 23
Reference population : 579
Relative Ks p-value : 0.591139
Relative ecdf deviation area : 0.0231555
Relative ecdf area correlation : -0.0307109
Relative ecdf deviation area p-value : 0.79
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.47
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.231305
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.2034



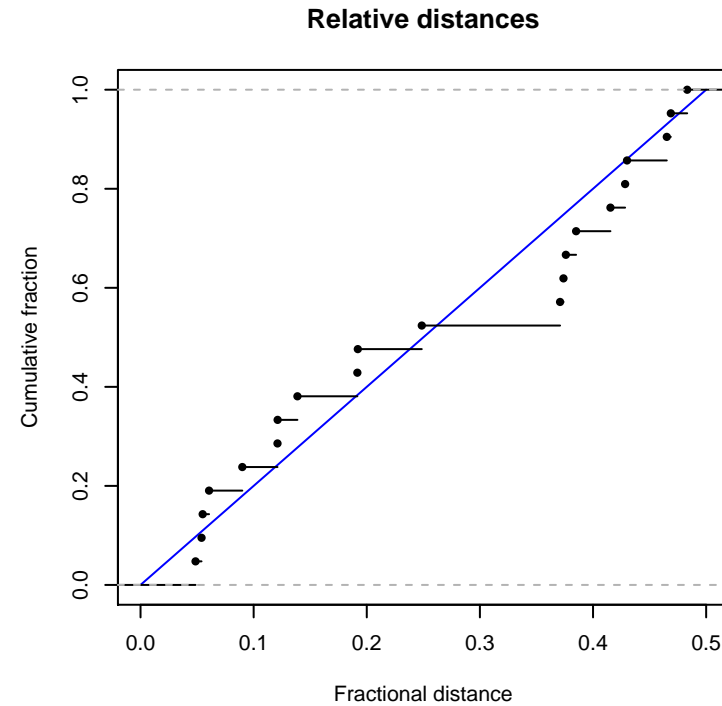
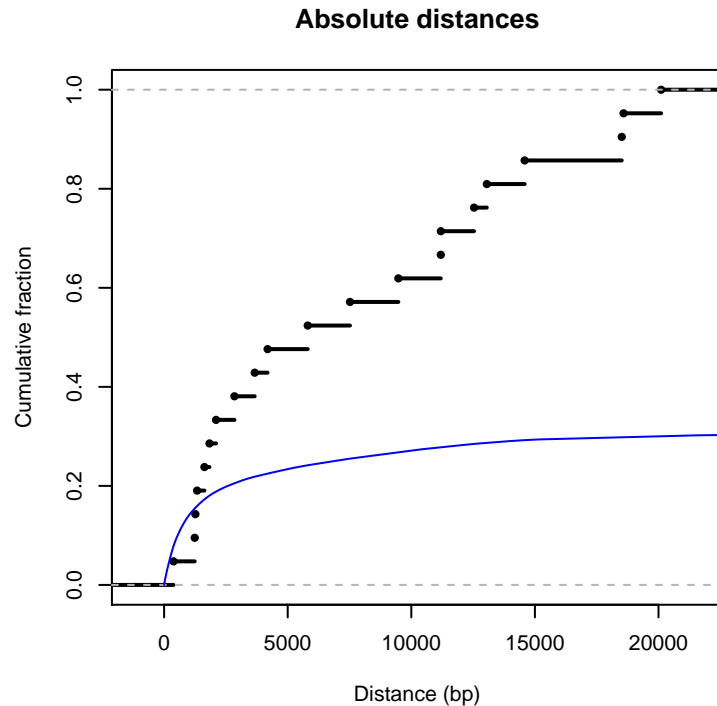
pcontig_035

Query population : 35
Reference population : 688
Relative Ks p-value : 0.0163232
Relative ecdf deviation area : 0.0588904
Relative ecdf area correlation : -0.235352
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 : 0.42
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.195896
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.23457



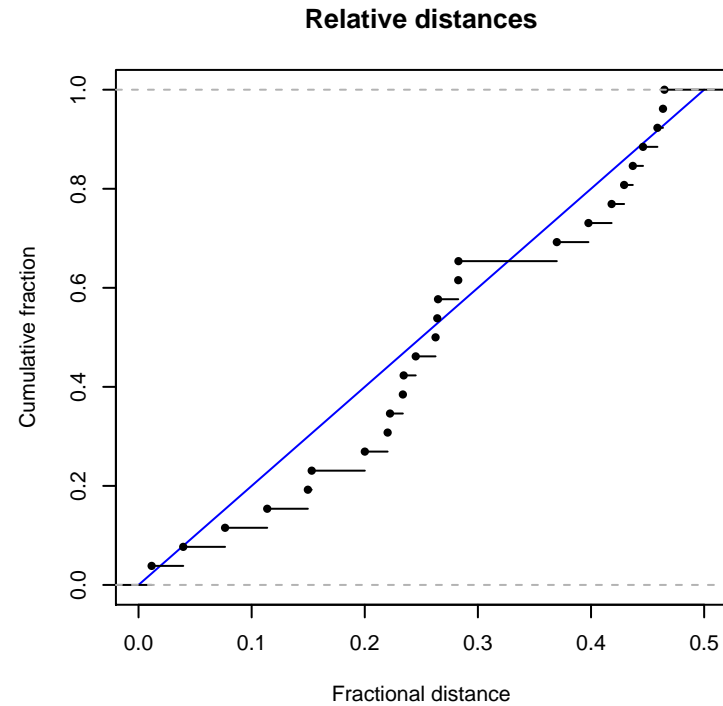
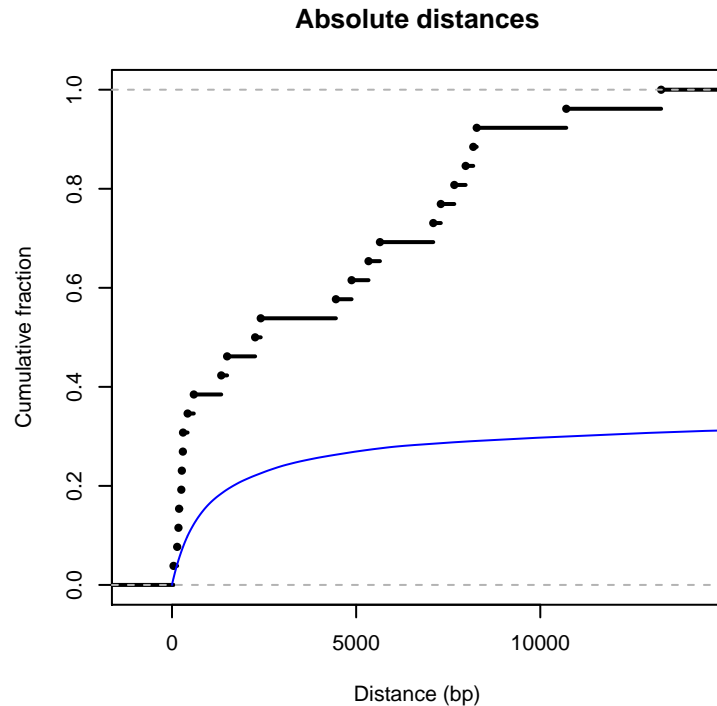
pcontig_036

Query population : 21
Reference population : 488
Relative Ks p-value : 0.234675
Relative ecdf deviation area : 0.0305333
Relative ecdf area correlation : -0.0510831
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 : 0.24
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.440025
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.69887



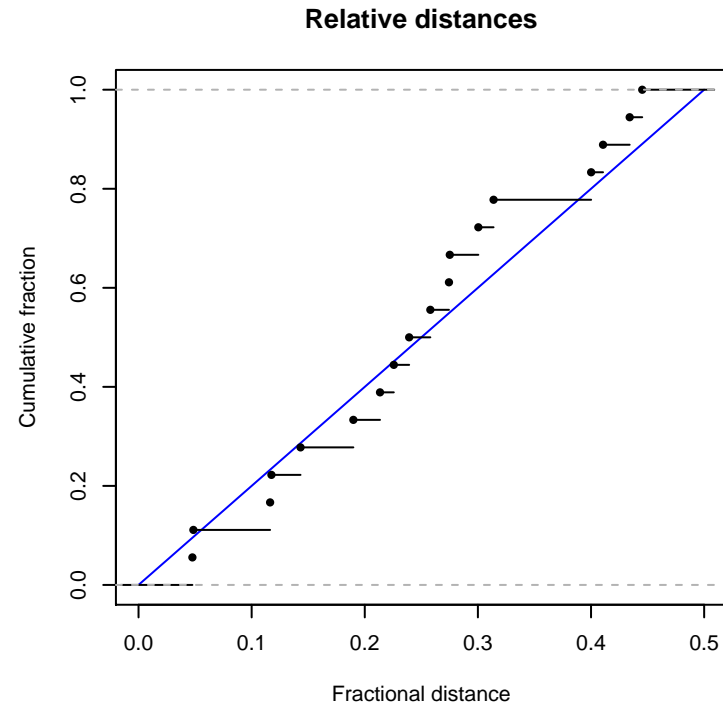
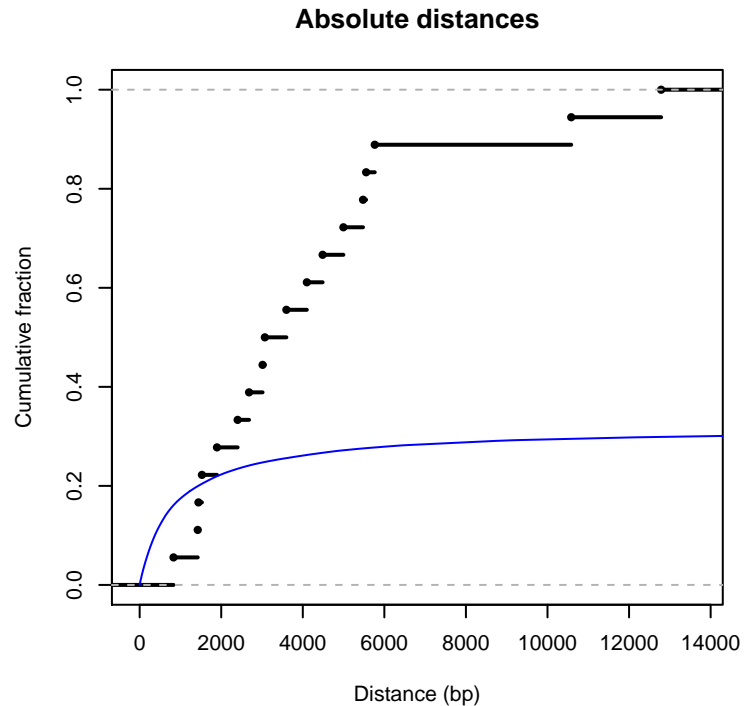
pcontig_037

Query population : 26
Reference population : 562
Relative Ks p-value : 0.387503
Relative ecdf deviation area : 0.0321774
Relative ecdf area correlation : -0.0987183
Relative ecdf deviation area p-value : 0.31
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00143045
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.54342



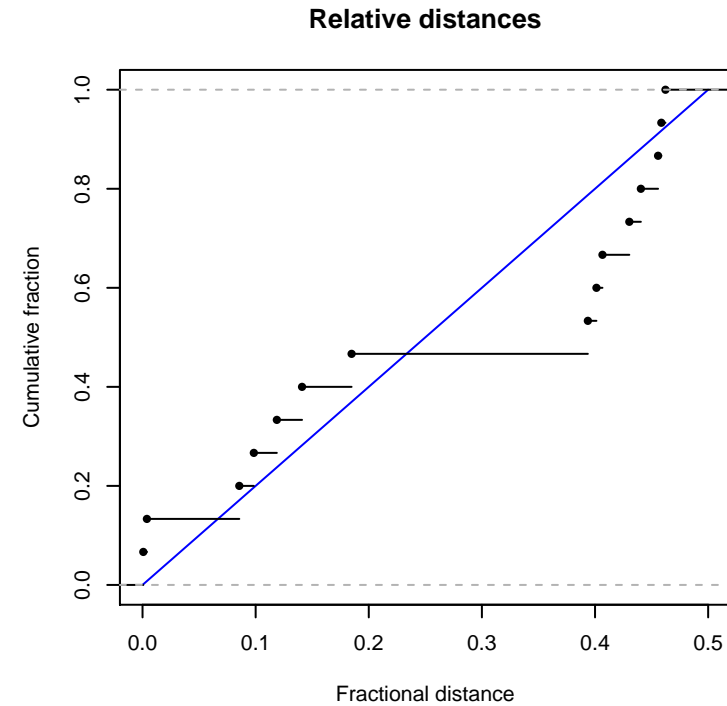
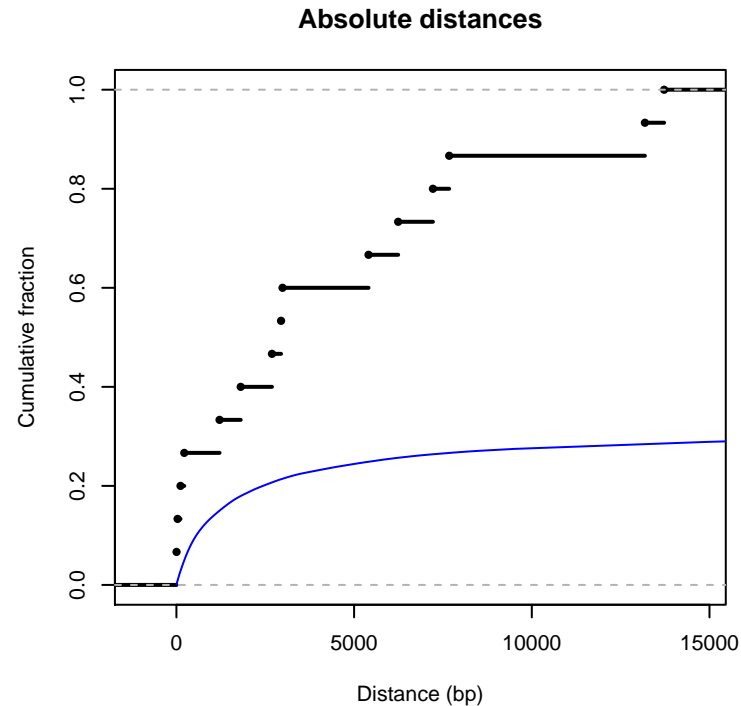
pcontig_039

Query population : 18
Reference population : 658
Relative Ks p-value : 0.758497
Relative ecdf deviation area : 0.0274257
Relative ecdf area correlation : 0.0103765
Relative ecdf deviation area p-value : 0.62
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0384449
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



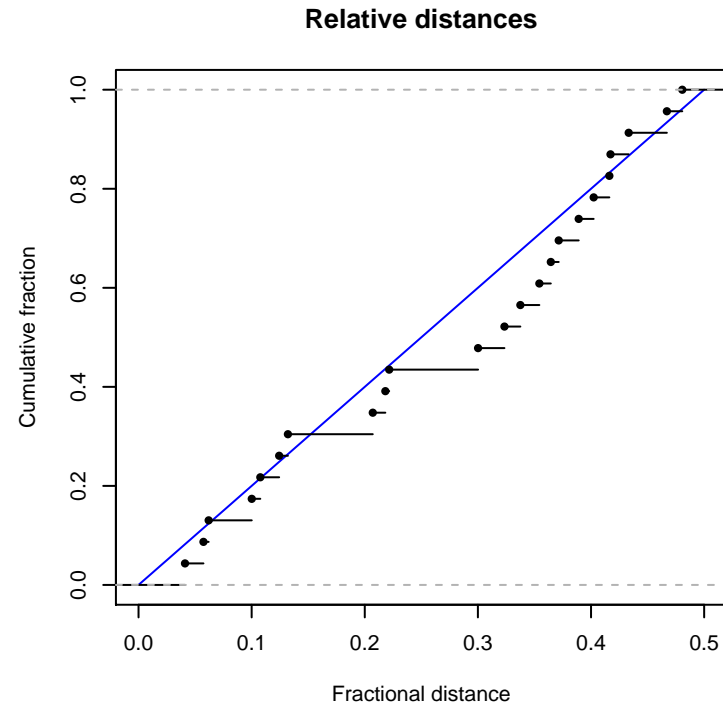
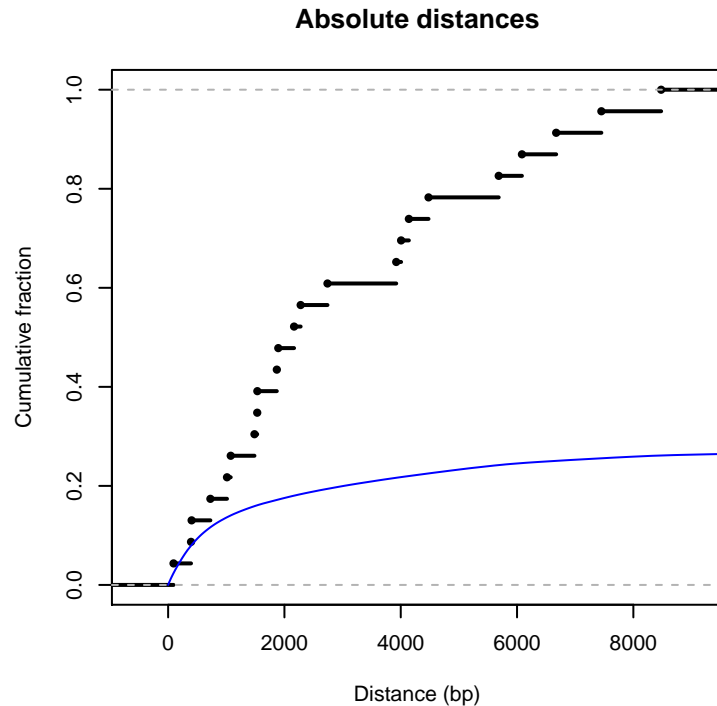
pcontig_040

Query population : 15
Reference population : 455
Relative Ks p-value : 0.071571
Relative ecdf deviation area : 0.0506722
Relative ecdf area correlation : -0.0885523
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 : 0.0052269
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.82485



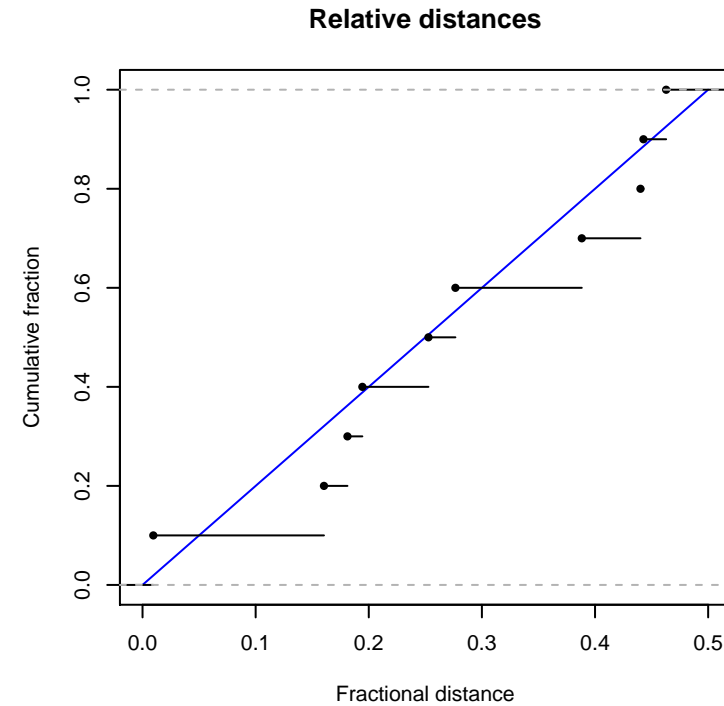
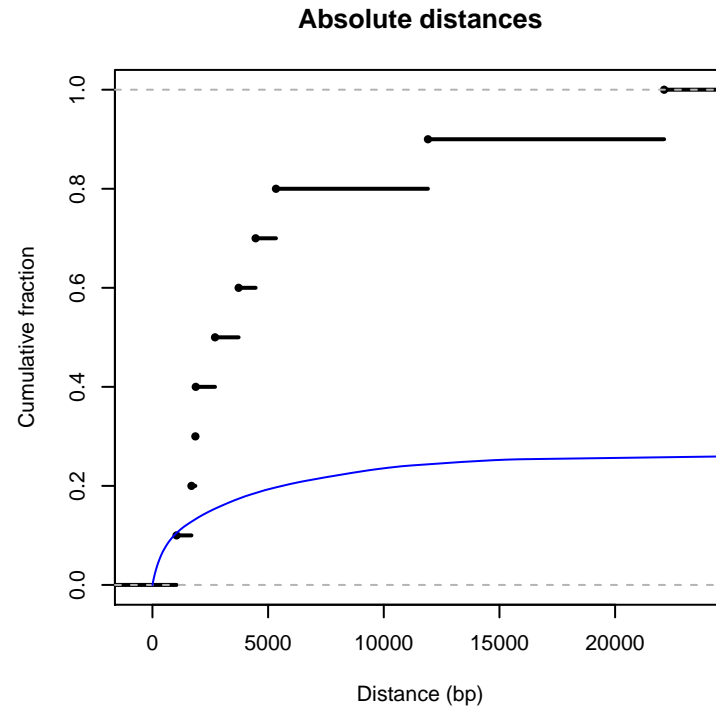
pcontig_041

Query population : 23
Reference population : 476
Relative Ks p-value : 0.478668
Relative ecdf deviation area : 0.028742
Relative ecdf area correlation : -0.100639
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 : 0.36
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.132084
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.45418



pcontig_042

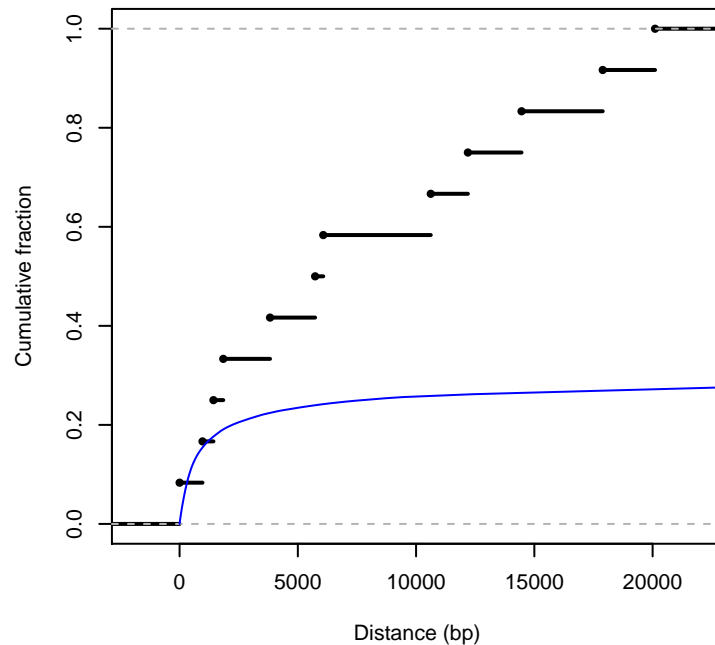
Query population : 10
Reference population : 408
Relative Ks p-value : 0.638317
Relative ecdf deviation area : 0.0380451
Relative ecdf area correlation : -0.123557
Relative ecdf deviation area p-value : 0.63
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.26
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.425234
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



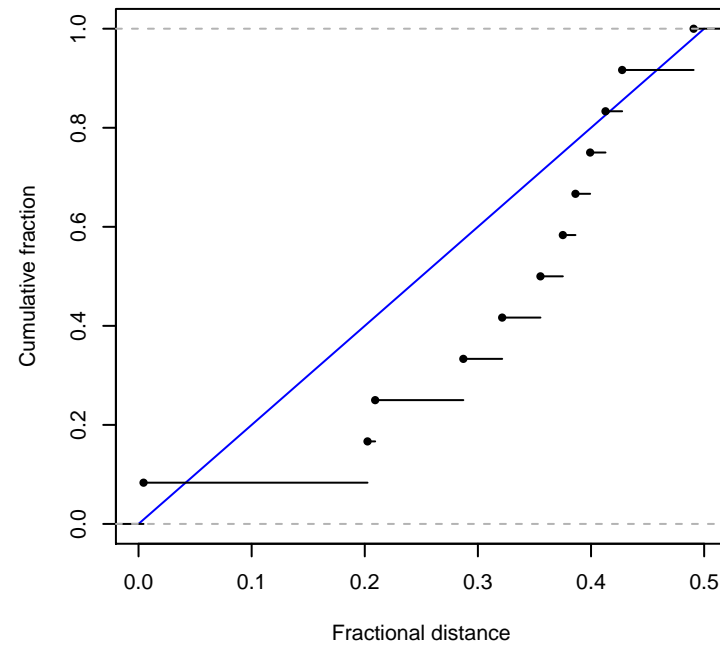
pcontig_043

Query population : 12
Reference population : 632
Relative Ks p-value : 0.12687
Relative ecdf deviation area : 0.0774603
Relative ecdf area correlation : -0.2905
Relative ecdf deviation area p-value : 0.09
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.32
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.457651
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0.569247

Absolute distances

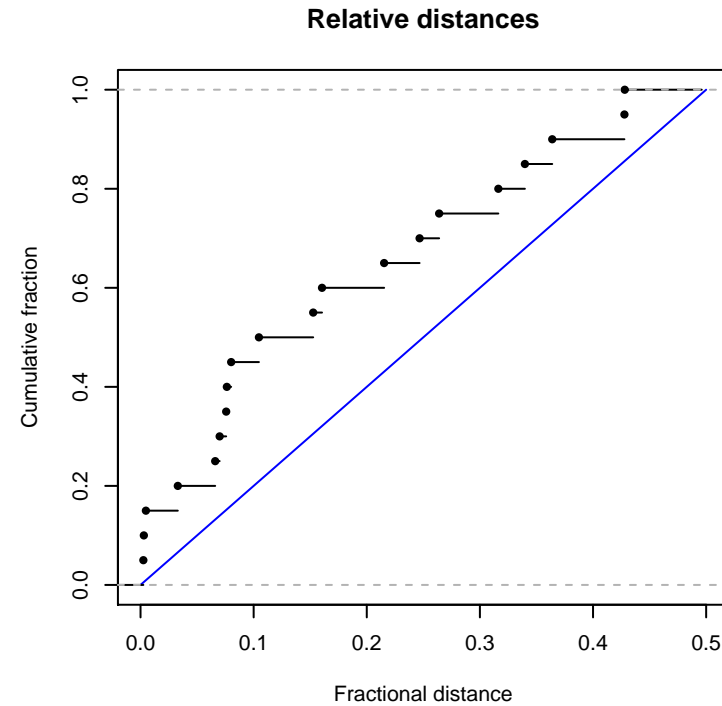
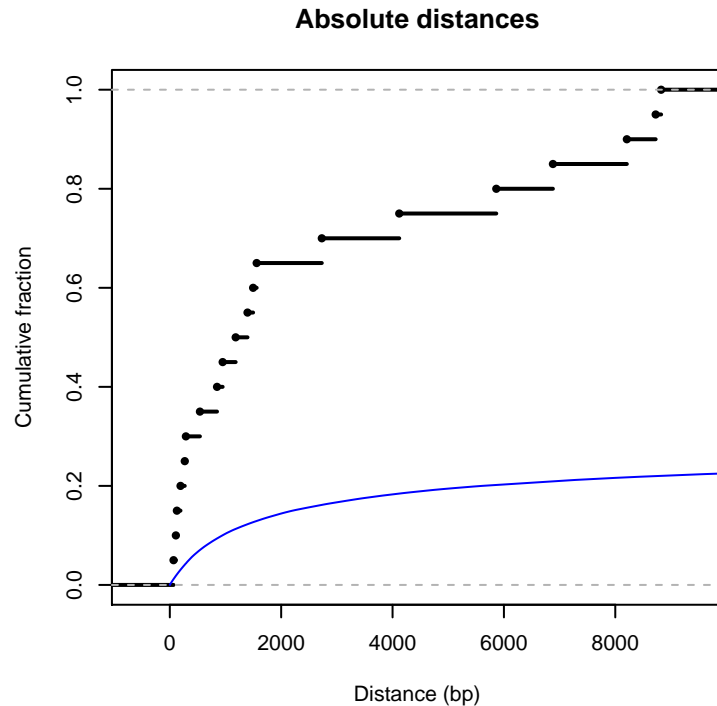


Relative distances



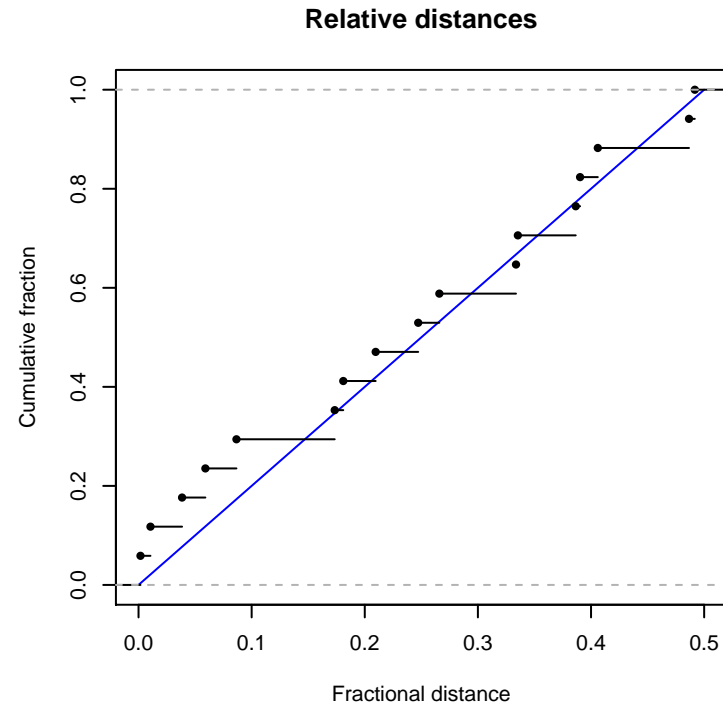
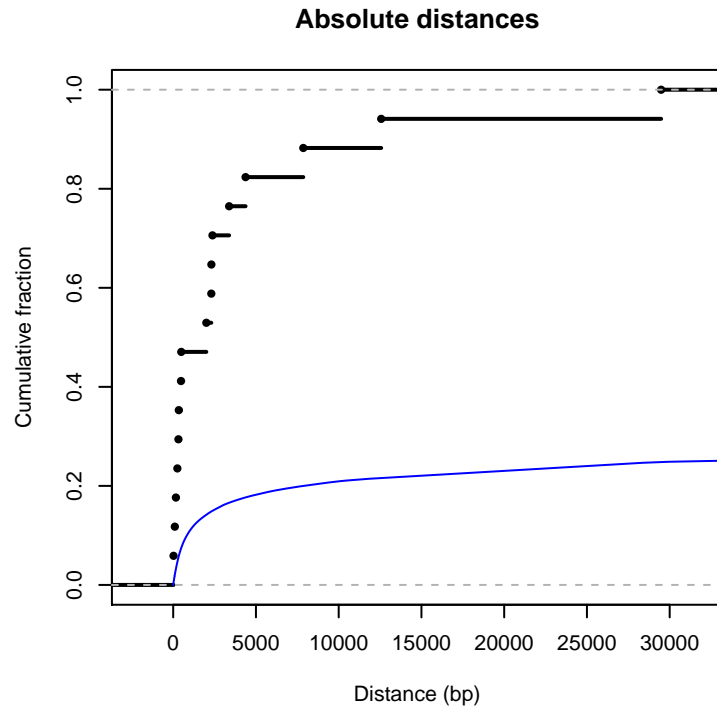
pcontig_044

Query population : 20
Reference population : 309
Relative Ks p-value : 0.0543826
Relative ecdf deviation area : 0.0778871
Relative ecdf area correlation : 0.313855
Relative ecdf deviation area p-value : 0.02
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 4.39183e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.2422



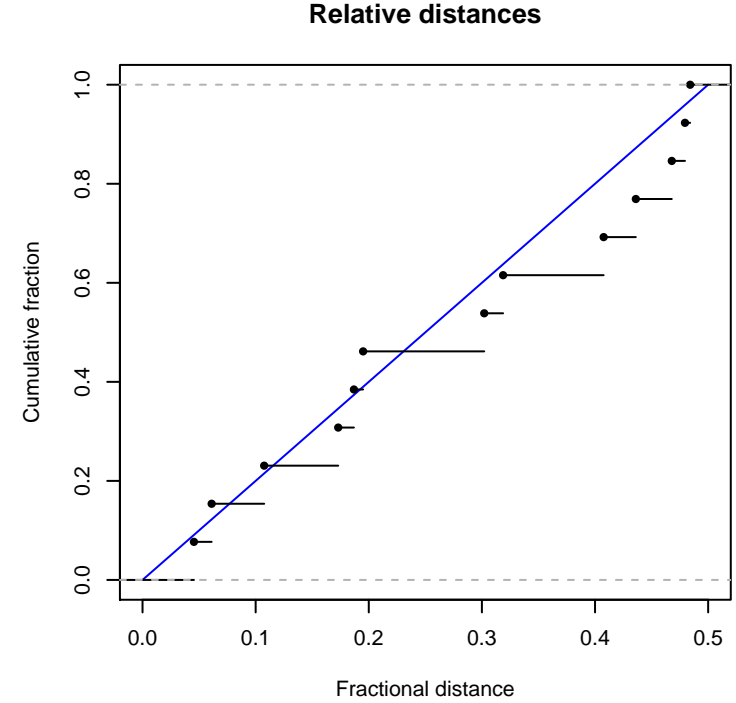
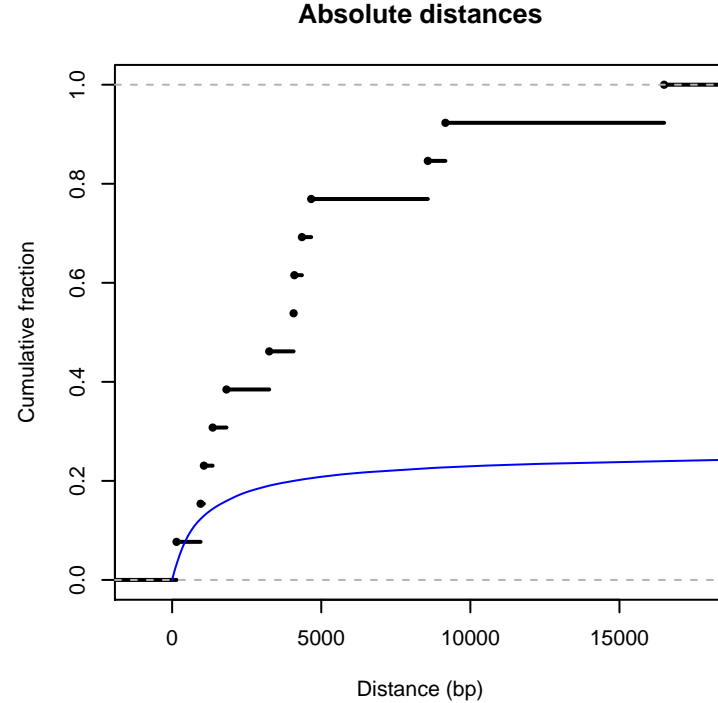
pcontig_045

Query population : 17
Reference population : 381
Relative Ks p-value : 0.93921
Relative ecdf deviation area : 0.0206989
Relative ecdf area correlation : 0.0343997
Relative ecdf deviation area p-value : 0.92
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.1946e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 5.40841



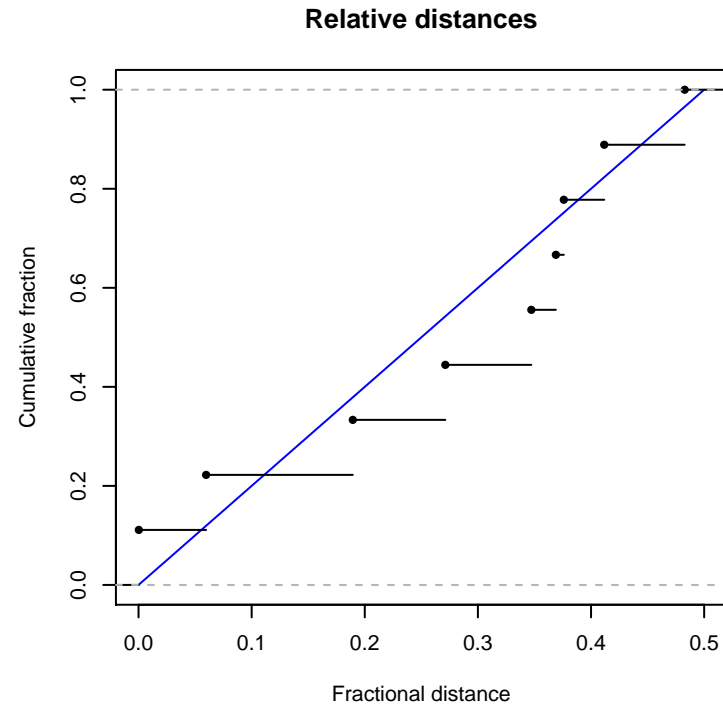
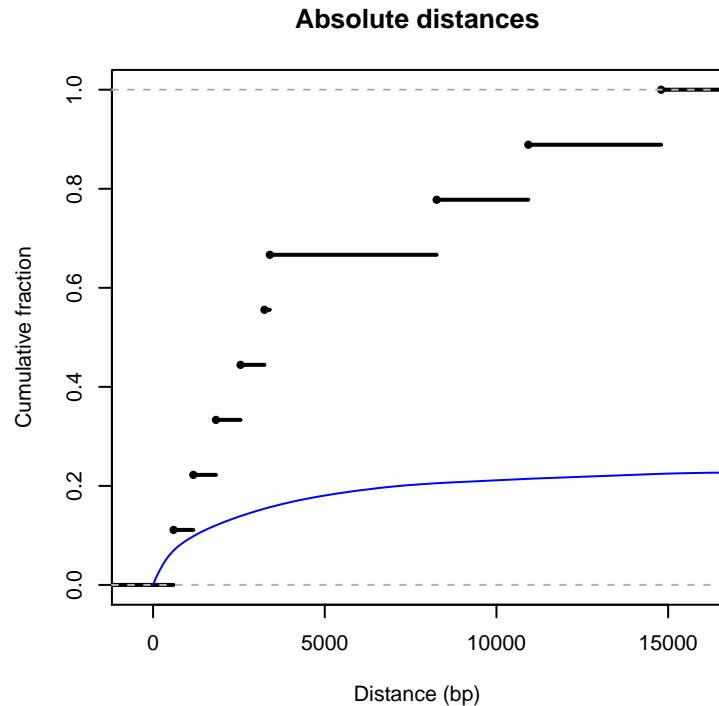
pcontig_046

Query population : 13
Reference population : 404
Relative Ks p-value : 0.607602
Relative ecdf deviation area : 0.0356216
Relative ecdf area correlation : -0.127671
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 : 0.39
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.439321
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0.683139



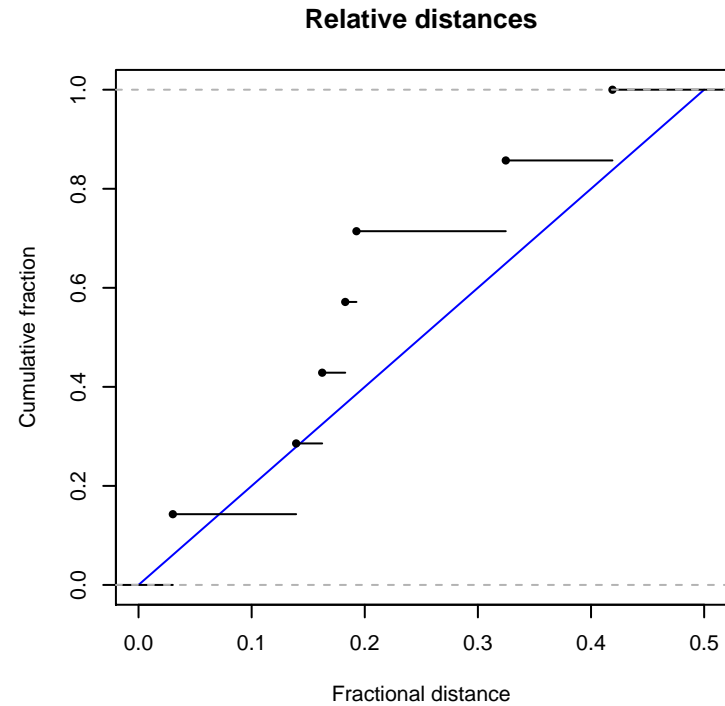
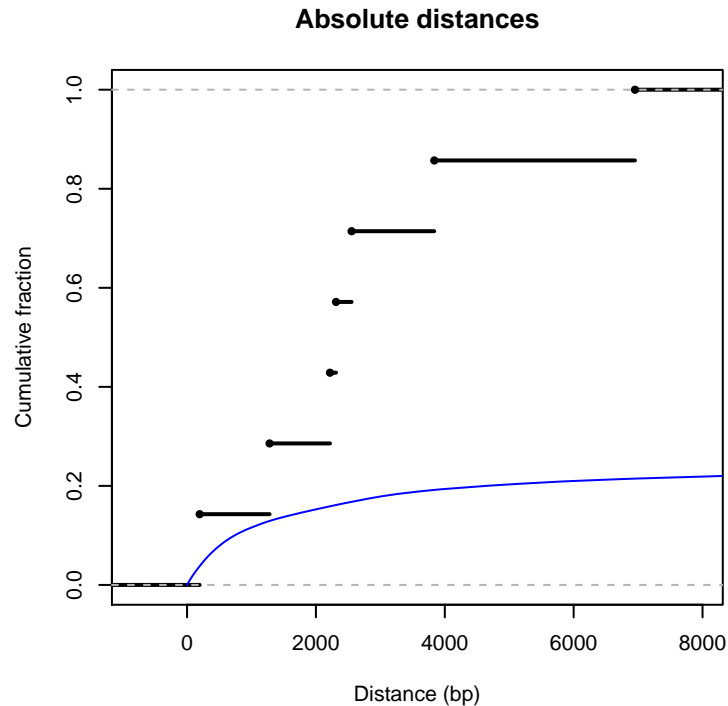
pcontig_047

Query population : 9
Reference population : 313
Relative Ks p-value : 0.546917
Relative ecdf deviation area : 0.0430241
Relative ecdf area correlation : -0.114288
Relative ecdf deviation area p-value : 0.57
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.4
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.496548
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



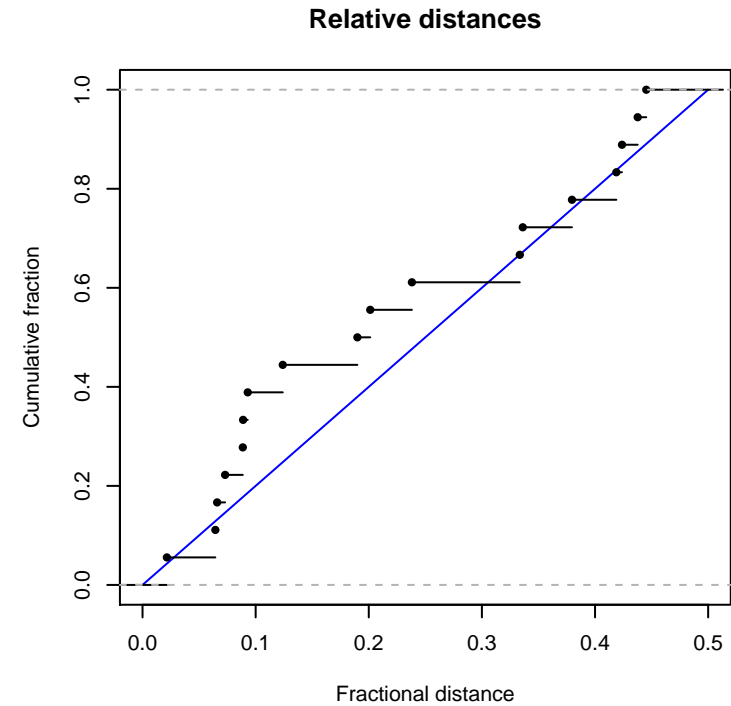
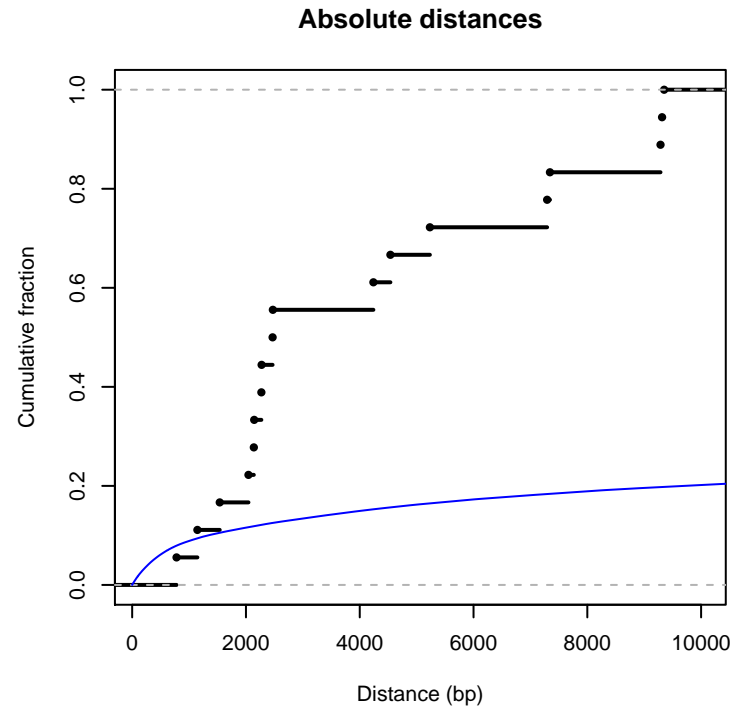
pcontig_048

Query population : 7
Reference population : 382
Relative Ks p-value : 0.355621
Relative ecdf deviation area : 0.0537314
Relative ecdf area correlation : 0.170889
Relative ecdf deviation area p-value : 0.54
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0243325
Projection test lower tail : FALSE
Projection test observed to expected ratio : 2.91557



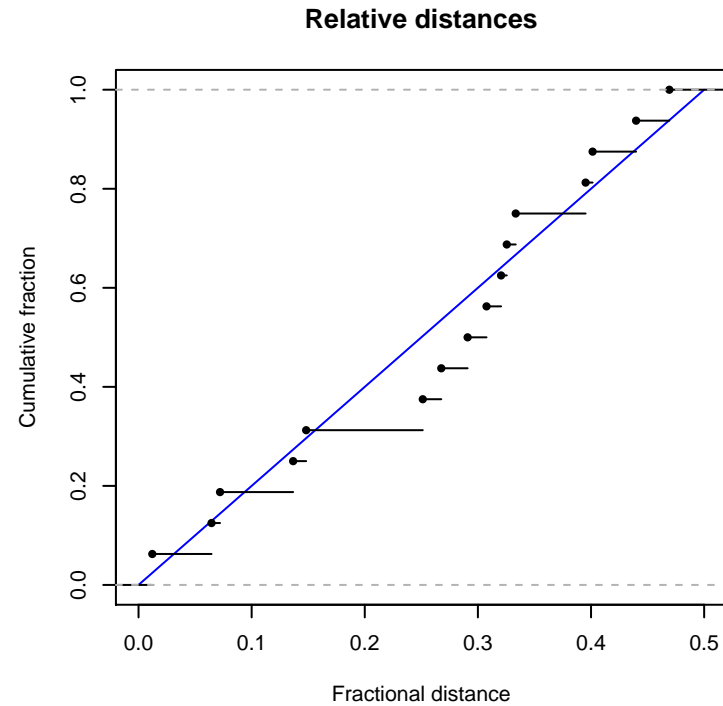
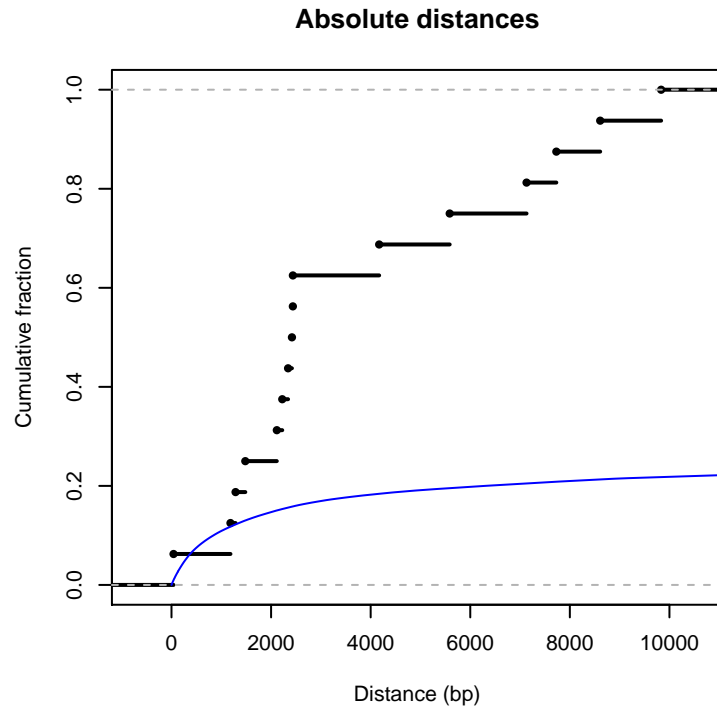
pcontig_049

Query population : 18
Reference population : 336
Relative Ks p-value : 0.395665
Relative ecdf deviation area : 0.0339056
Relative ecdf area correlation : 0.105876
Relative ecdf deviation area p-value : 0.44
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.08
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.235675
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



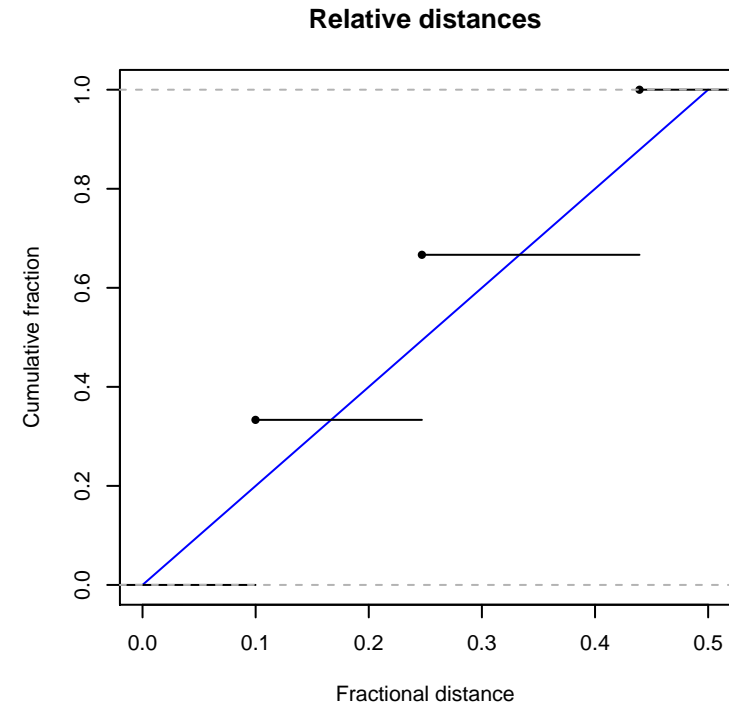
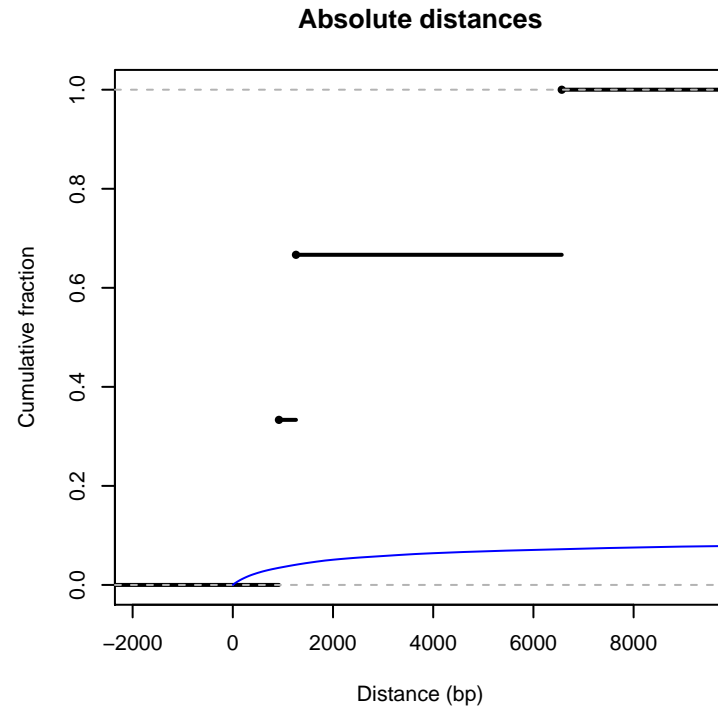
pcontig_050

Query population : 16
Reference population : 417
Relative Ks p-value : 0.547535
Relative ecdf deviation area : 0.0271767
Relative ecdf area correlation : -0.0590507
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 : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.176429
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.3623



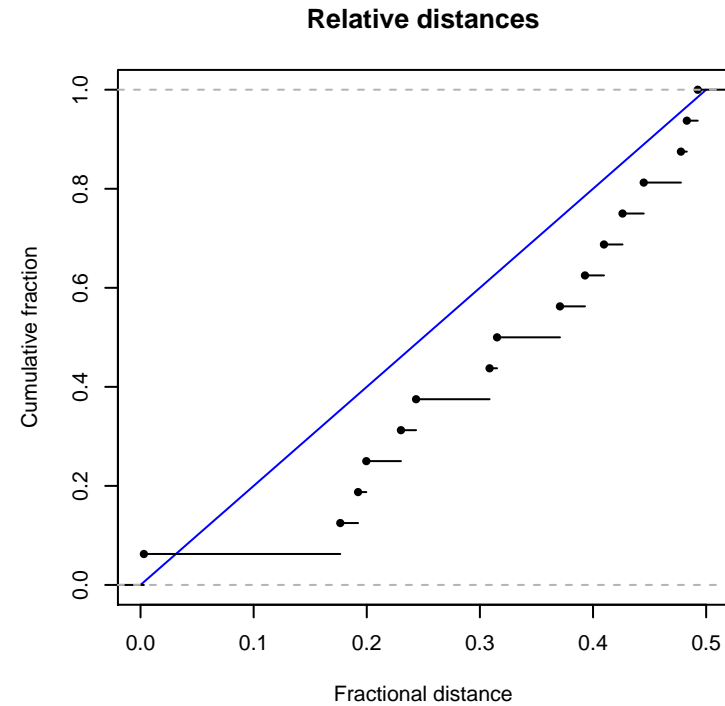
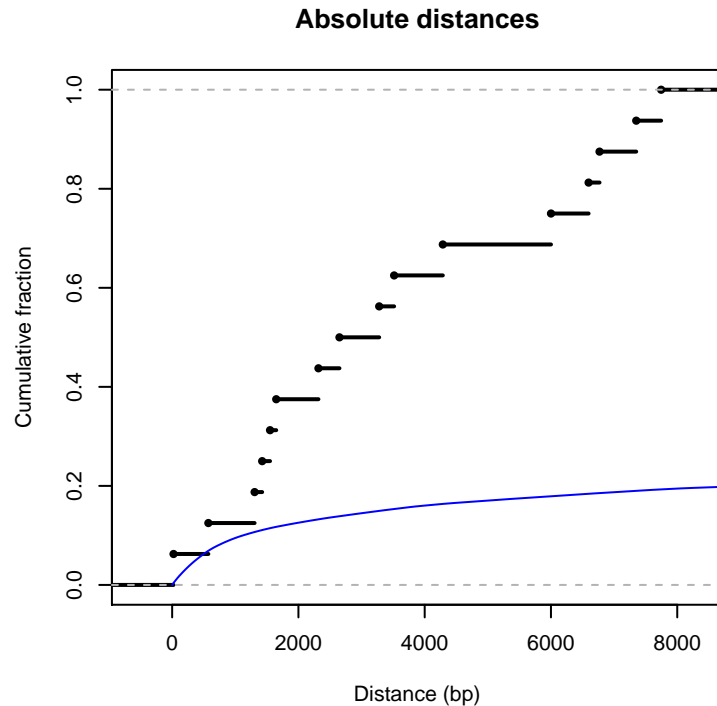
pcontig_051

Query population : 3
Reference population : 134
Relative Ks p-value : 0.995541
Relative ecdf deviation area : 0.0432742
Relative ecdf area correlation : -0.0481394
Relative ecdf deviation area p-value : 1
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.108103
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



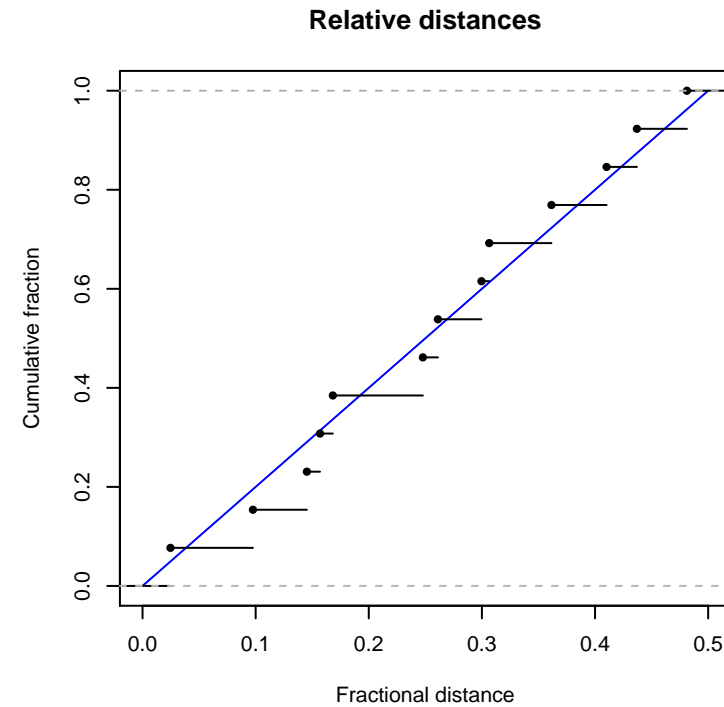
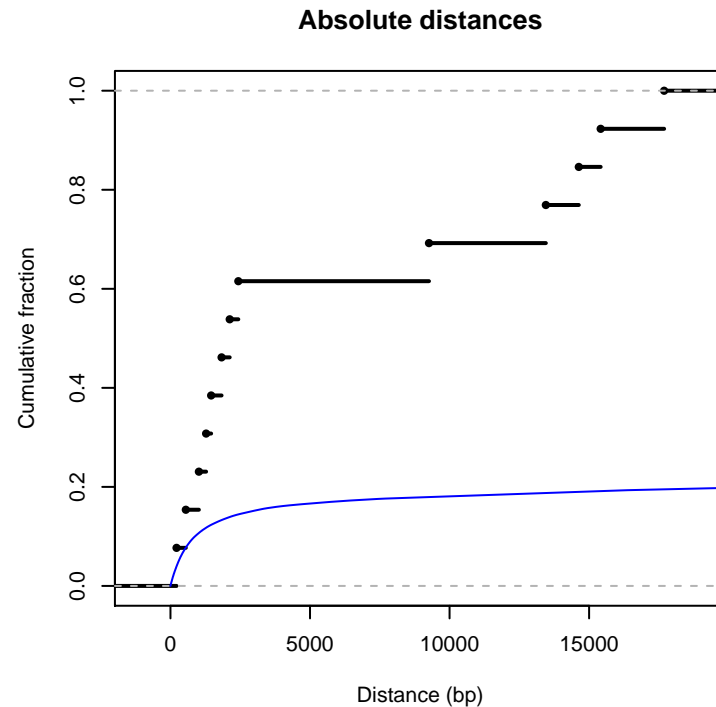
pcontig_052

Query population : 16
Reference population : 303
Relative Ks p-value : 0.108433
Relative ecdf deviation area : 0.0744944
Relative ecdf area correlation : -0.291599
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 : 0.21
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.121526
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.61679



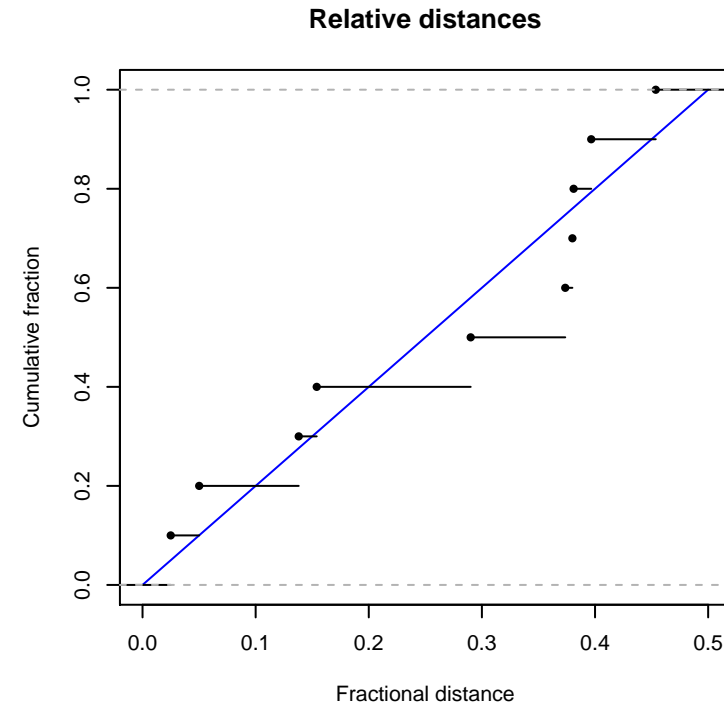
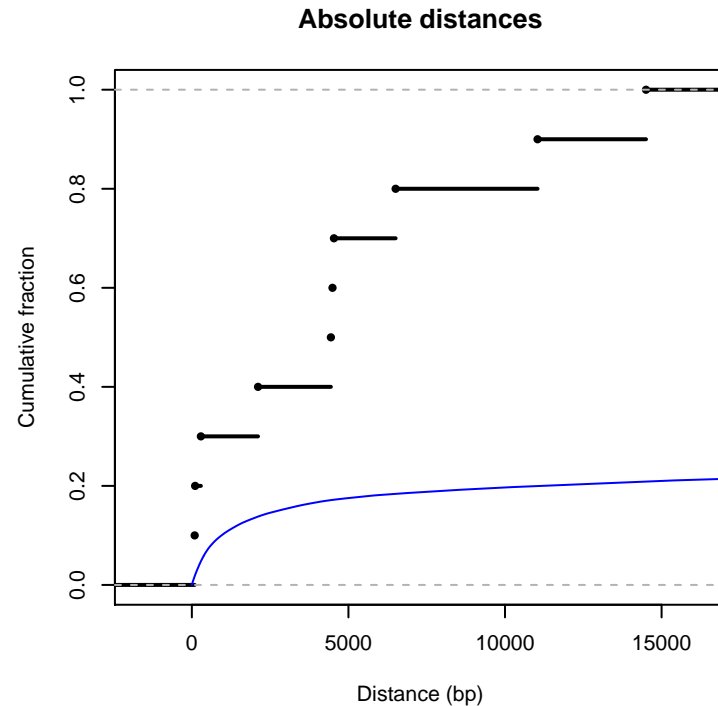
pcontig_054

Query population : 13
Reference population : 378
Relative Ks p-value : 0.941212
Relative ecdf deviation area : 0.0189521
Relative ecdf area correlation : -0.045433
Relative ecdf deviation area p-value : 0.95
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 : 0.321631
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0.869486



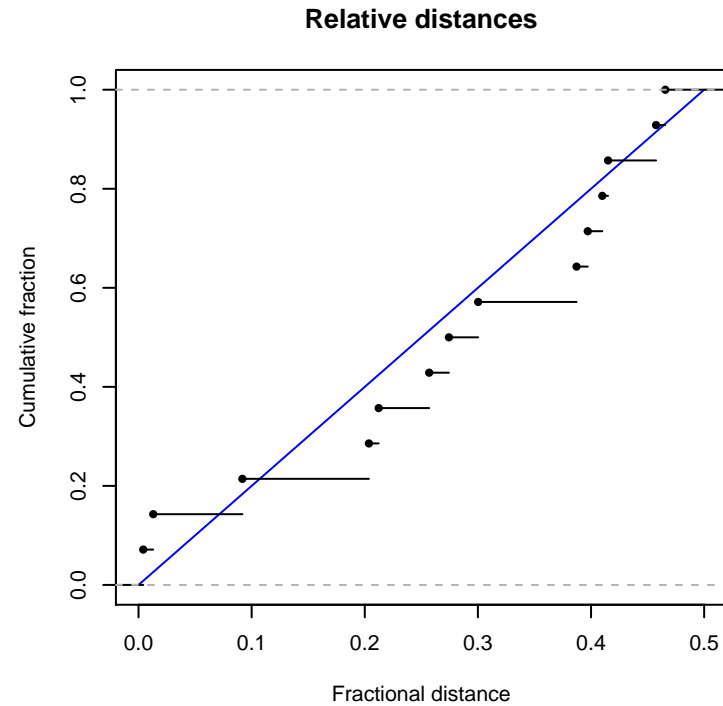
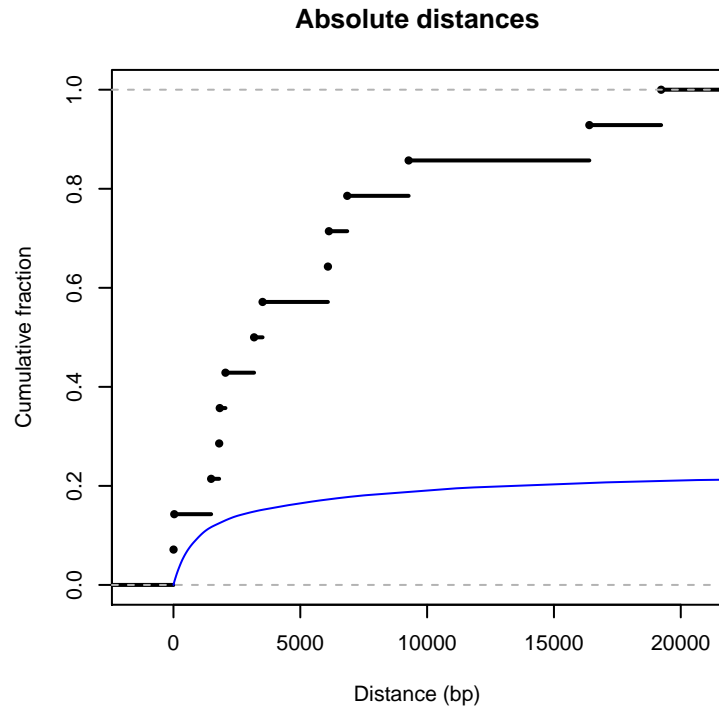
pcontig_055

Query population : 10
Reference population : 375
Relative Ks p-value : 0.497473
Relative ecdf deviation area : 0.0353144
Relative ecdf area correlation : -0.0568765
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 : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00732916
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.51308



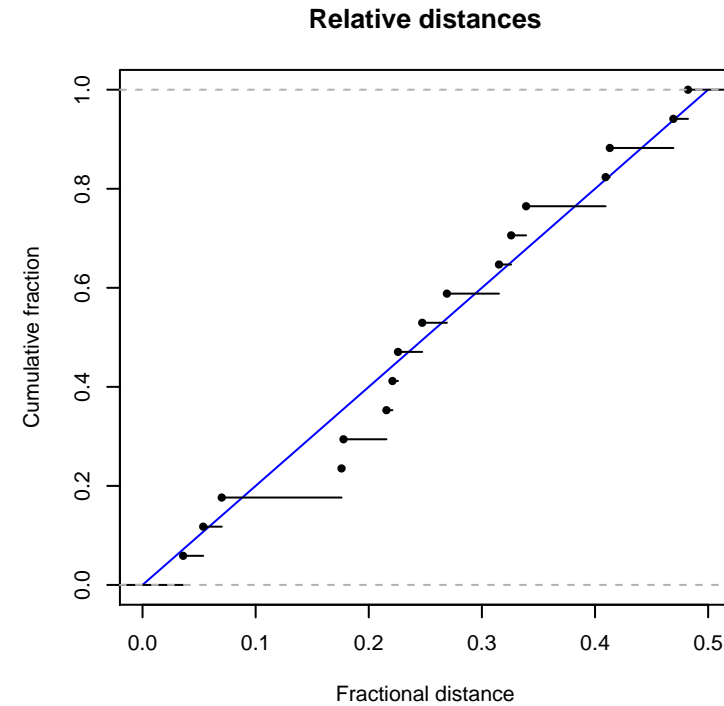
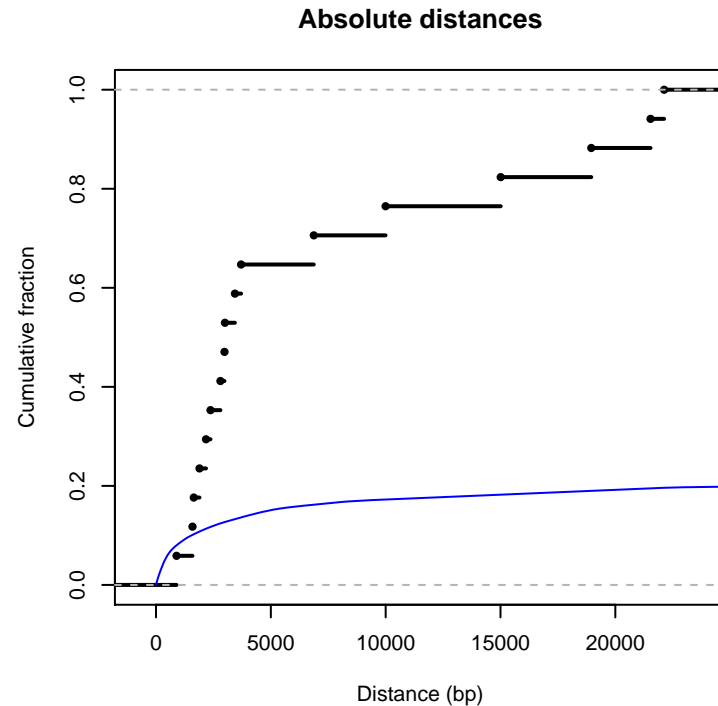
pcontig_056

Query population : 14
Reference population : 329
Relative Ks p-value : 0.544404
Relative ecdf deviation area : 0.0387111
Relative ecdf area correlation : -0.111128
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 : 0.49
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.0860648
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.86944



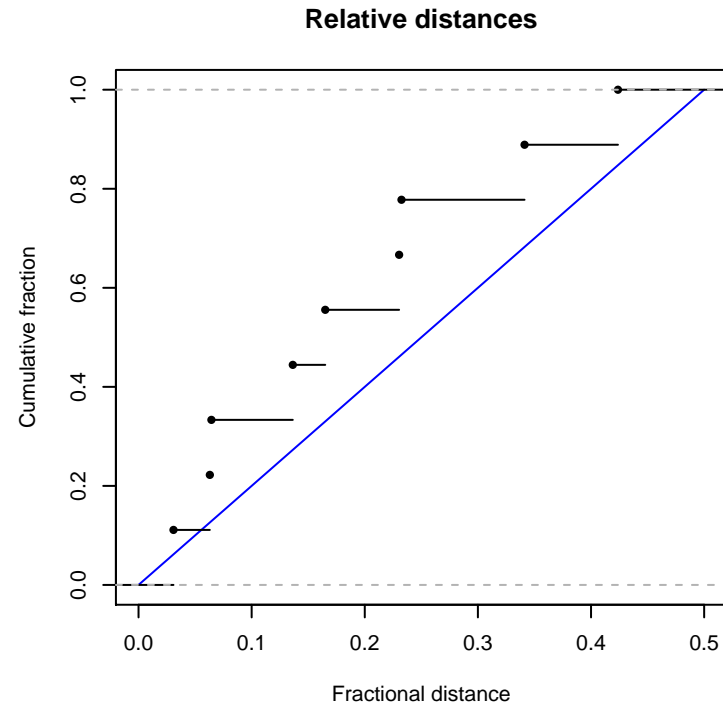
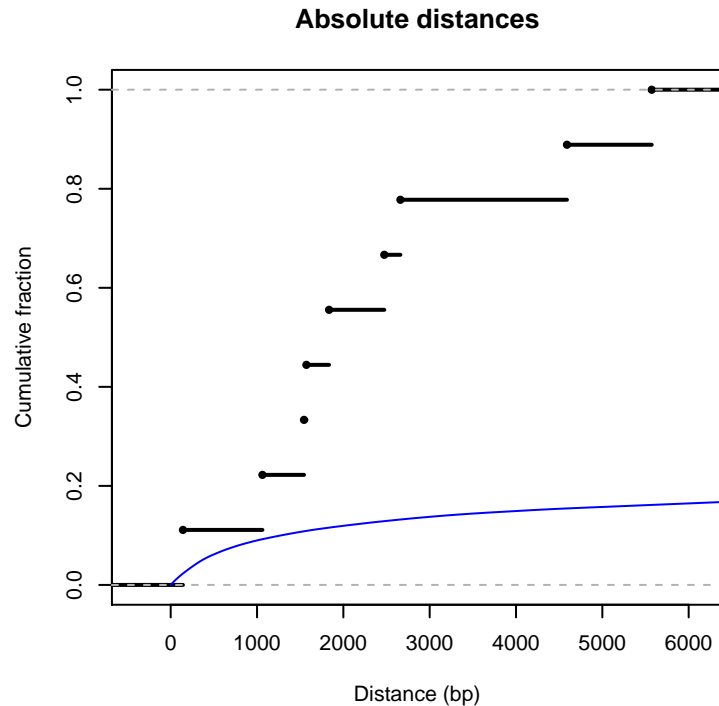
pcontig_057

Query population : 17
Reference population : 305
Relative Ks p-value : 0.611166
Relative ecdf deviation area : 0.0186722
Relative ecdf area correlation : -0.0460624
Relative ecdf deviation area p-value : 0.97
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.21
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.311241
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



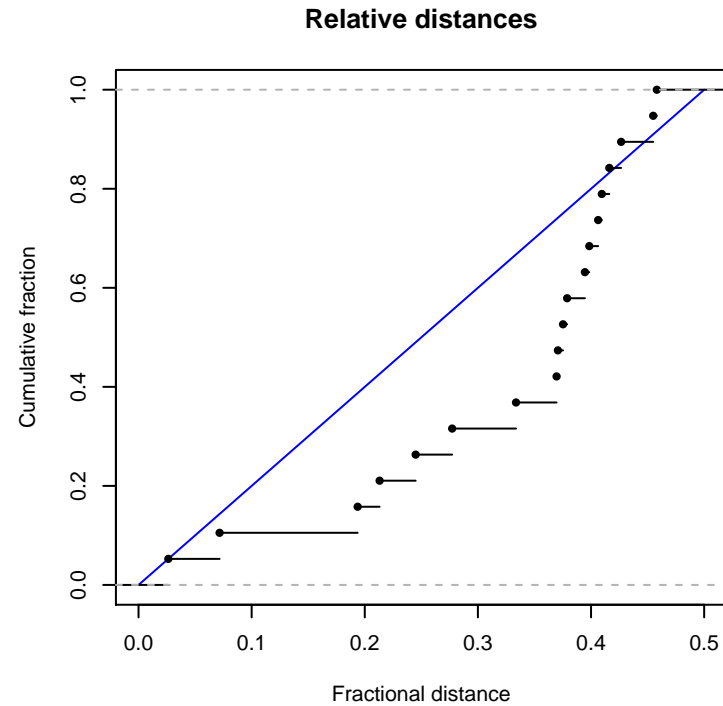
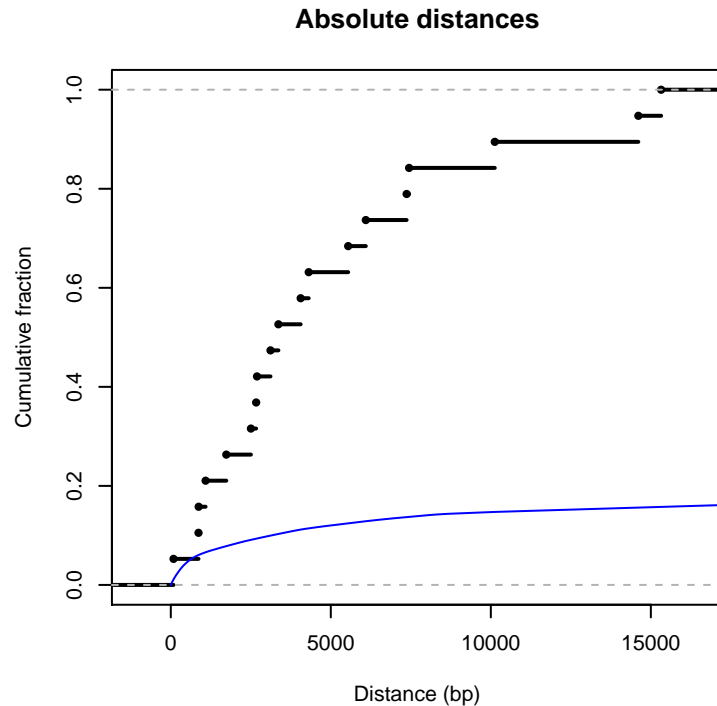
pcontig_058

Query population : 9
Reference population : 308
Relative Ks p-value : 0.278463
Relative ecdf deviation area : 0.06477
Relative ecdf area correlation : 0.249915
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 : 0.45
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.179306
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.28548



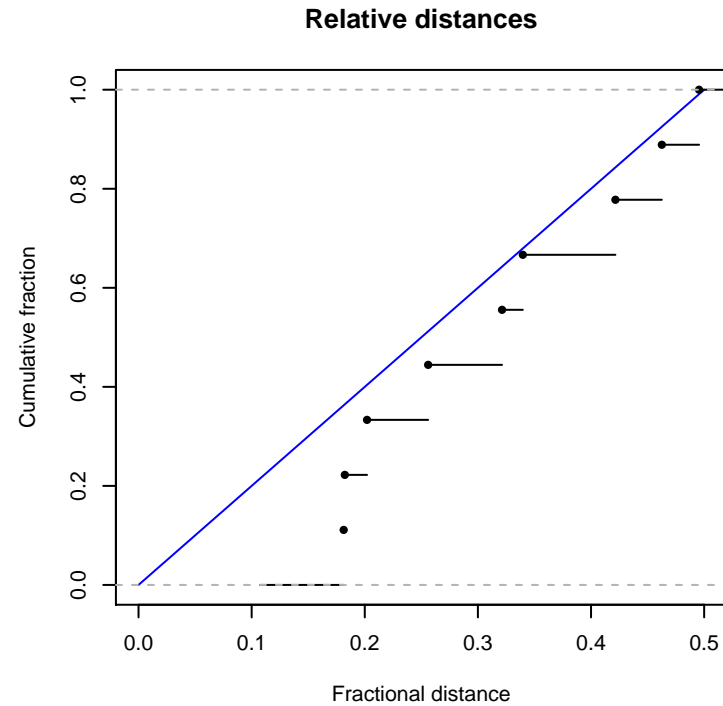
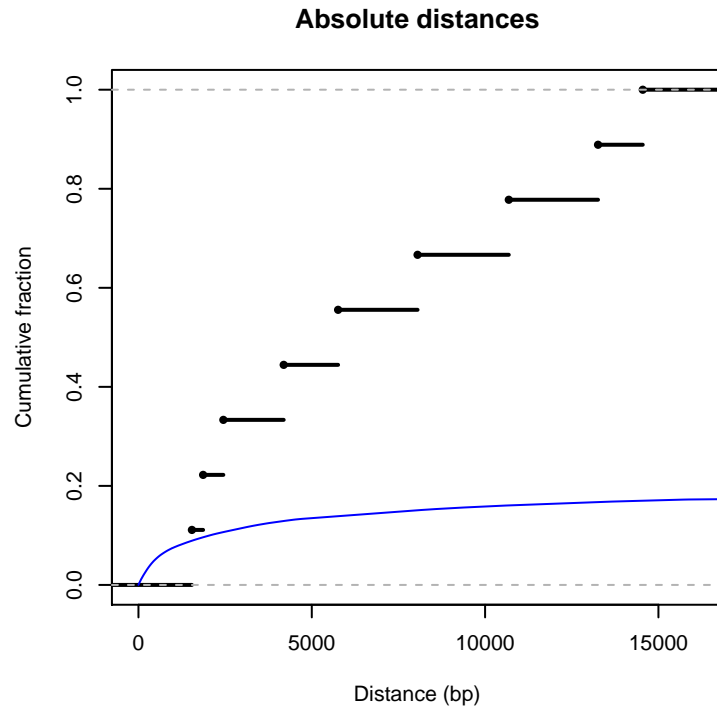
pcontig_059

Query population : 19
Reference population : 235
Relative Ks p-value : 0.00751159
Relative ecdf deviation area : 0.0810885
Relative ecdf area correlation : -0.309476
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 : 0.31
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.231249
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.09578



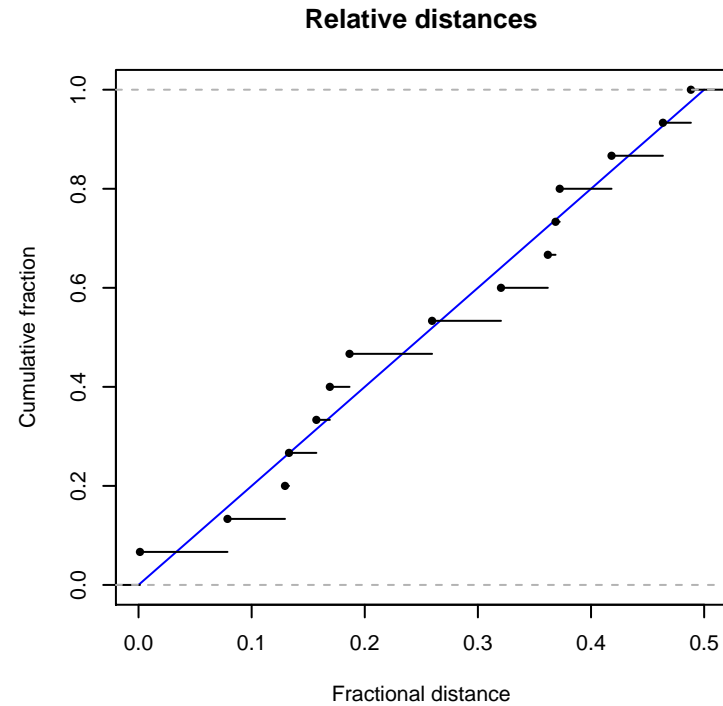
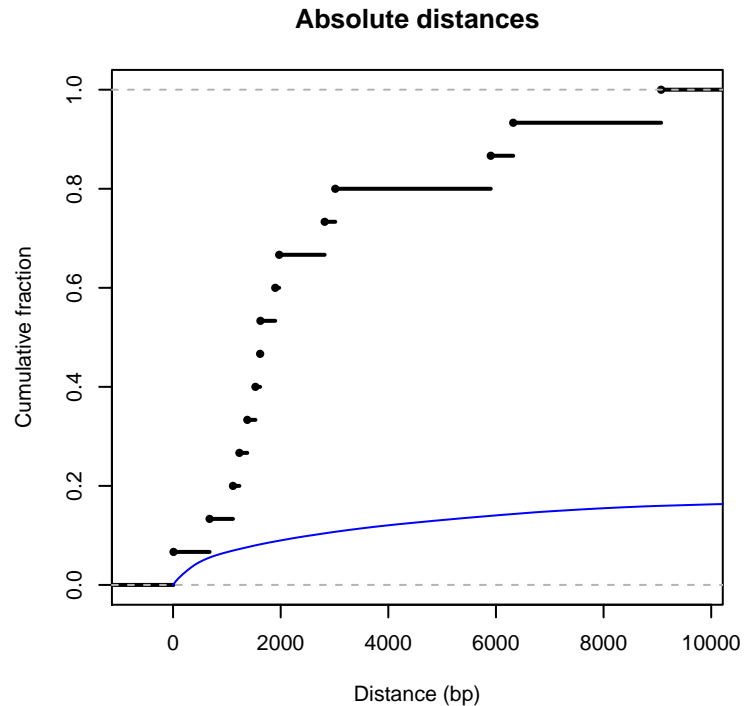
pcontig_060

Query population : 9
Reference population : 261
Relative Ks p-value : 0.144479
Relative ecdf deviation area : 0.0680624
Relative ecdf area correlation : -0.272221
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 : 0.46
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.43472
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



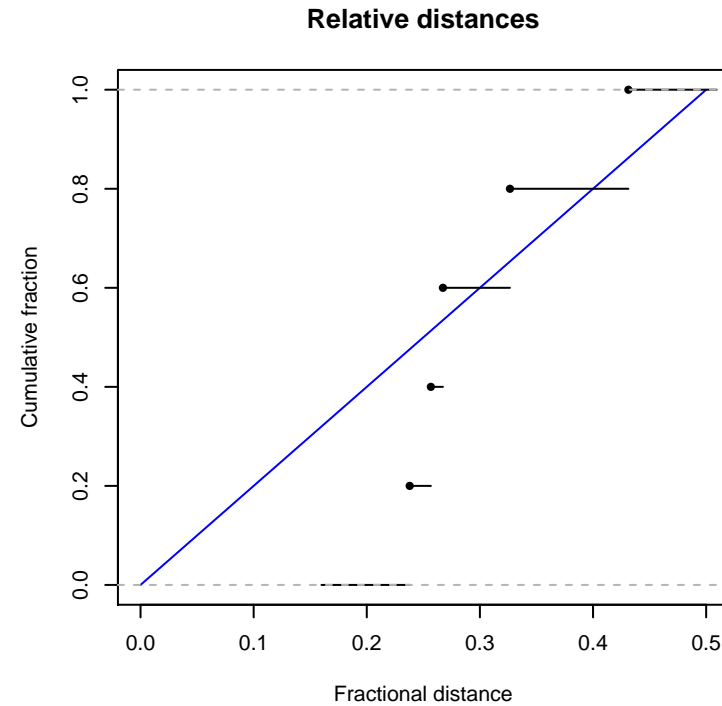
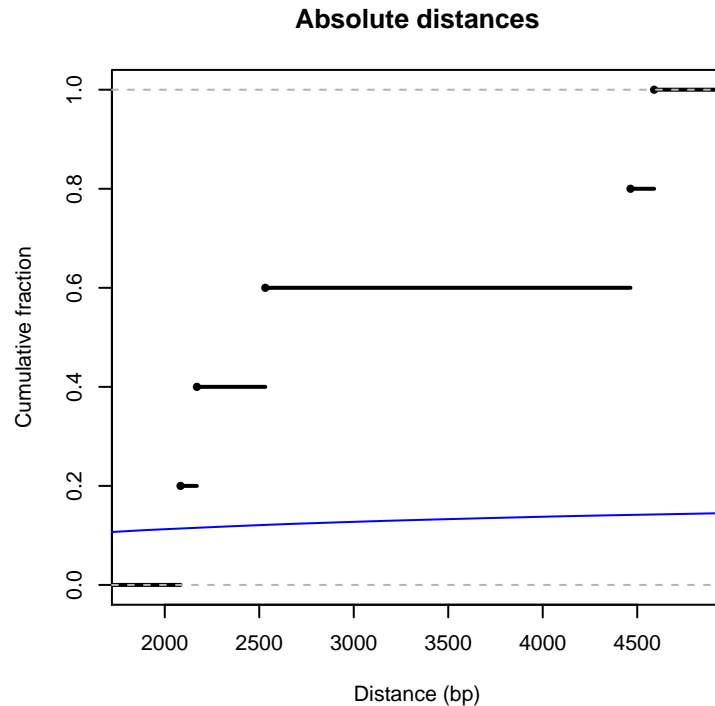
pcontig_062

Query population : 15
Reference population : 249
Relative Ks p-value : 0.948033
Relative ecdf deviation area : 0.0213001
Relative ecdf area correlation : -0.0421414
Relative ecdf deviation area p-value : 0.96
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00685768
Projection test lower tail : FALSE
Projection test observed to expected ratio : 3.75166



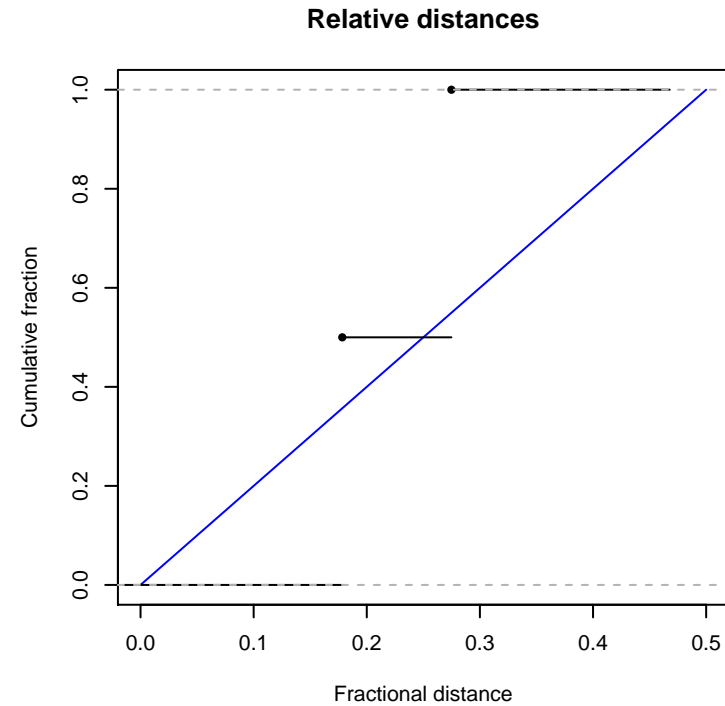
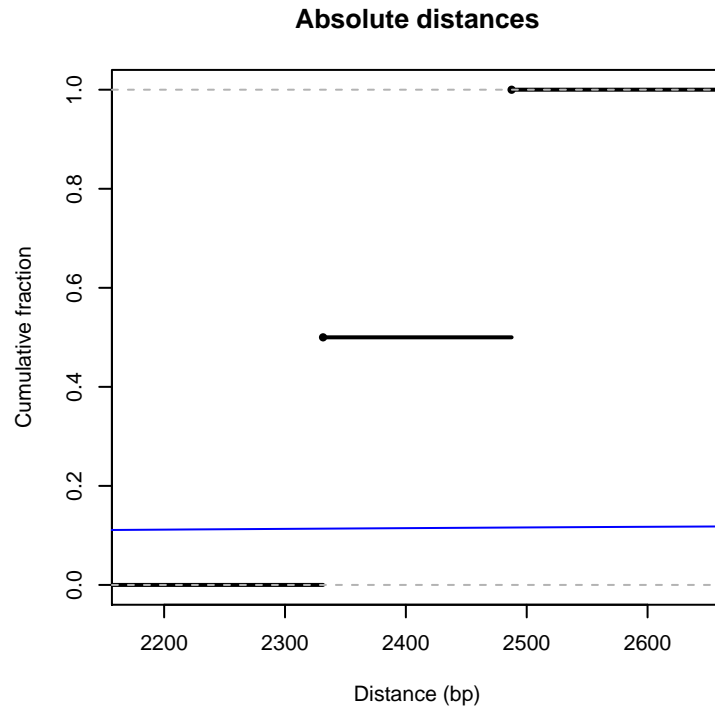
pcontig_064

Query population : 5
Reference population : 273
Relative Ks p-value : 0.147573
Relative ecdf deviation area : 0.0758202
Relative ecdf area correlation : -0.215806
Relative ecdf deviation area p-value : 0.36
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.4
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.302147
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



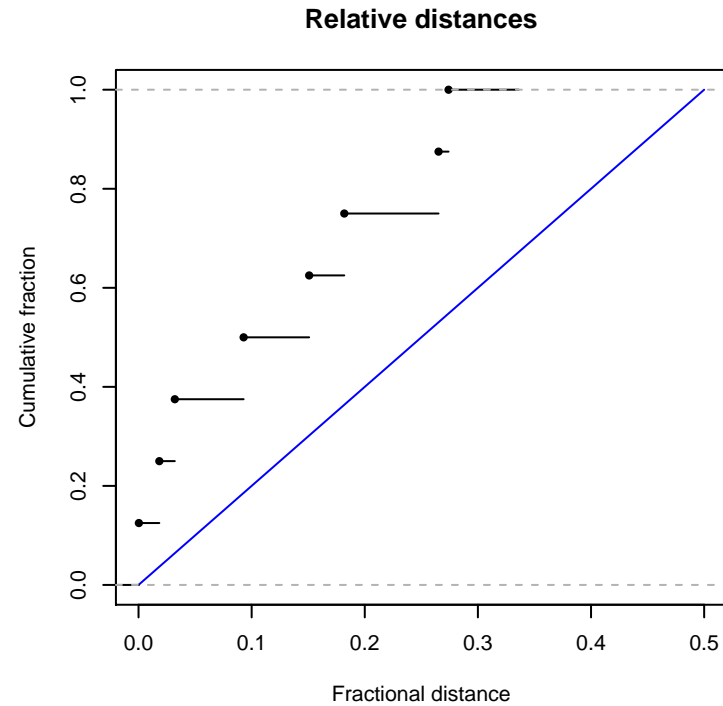
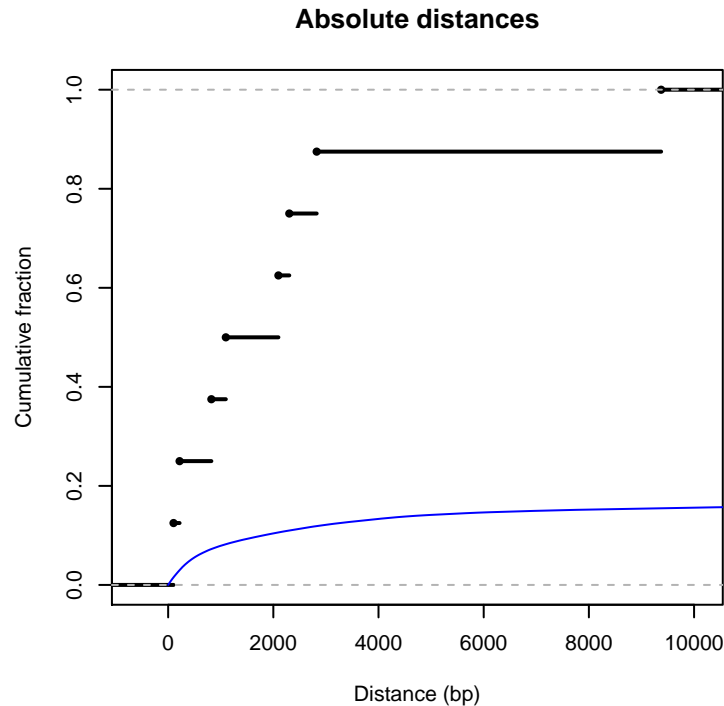
pcontig_065

Query population : 2
Reference population : 320
Relative Ks p-value : 0.678823
Relative ecdf deviation area : 0.0882162
Relative ecdf area correlation : 0.0937325
Relative ecdf deviation area p-value : 0.68
Scaled Absolute min. distance p-value : 0.05
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.21
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.139419
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



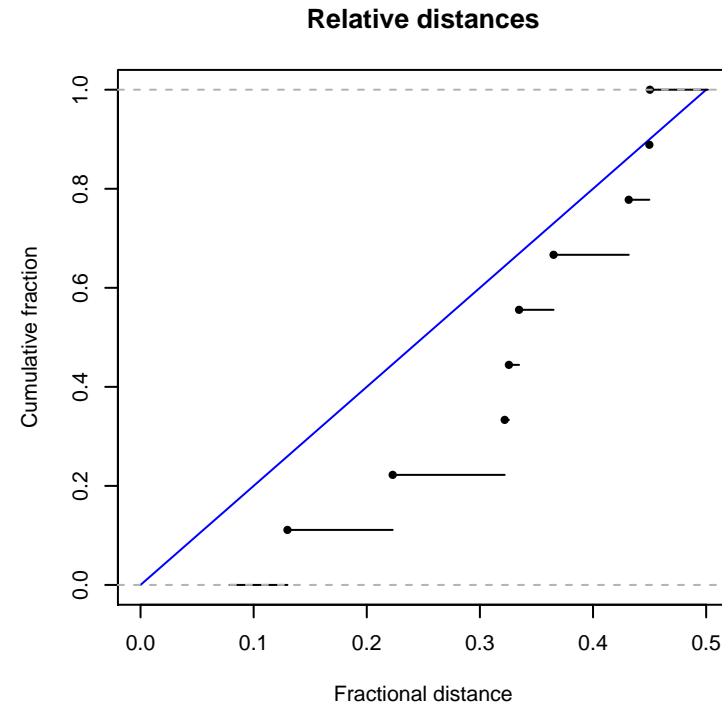
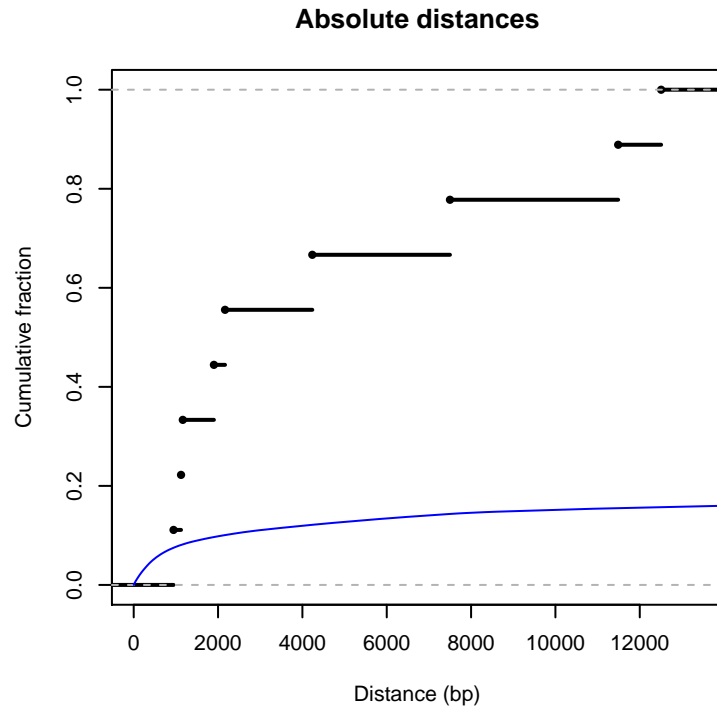
pcontig_066

Query population : 8
Reference population : 263
Relative Ks p-value : 0.0519868
Relative ecdf deviation area : 0.123513
Relative ecdf area correlation : 0.492168
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 : 0.00282484
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.38454



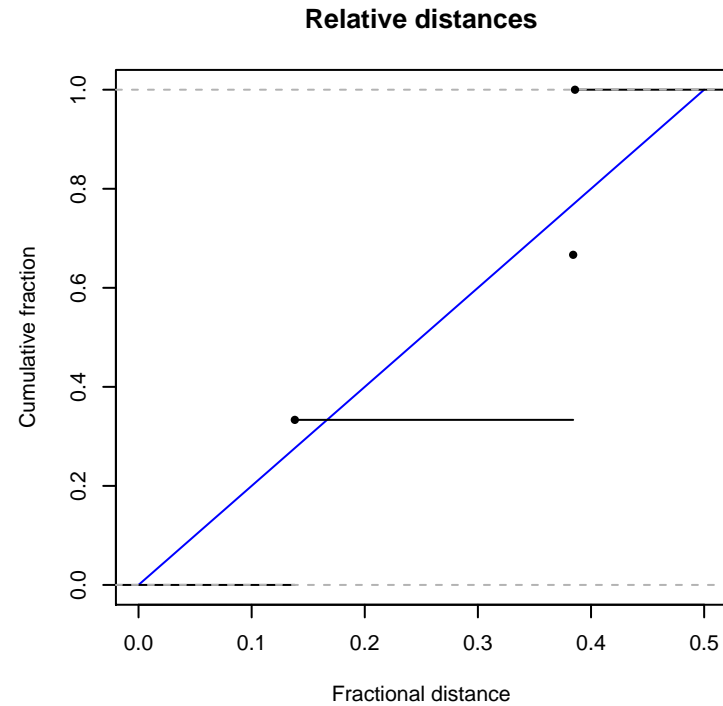
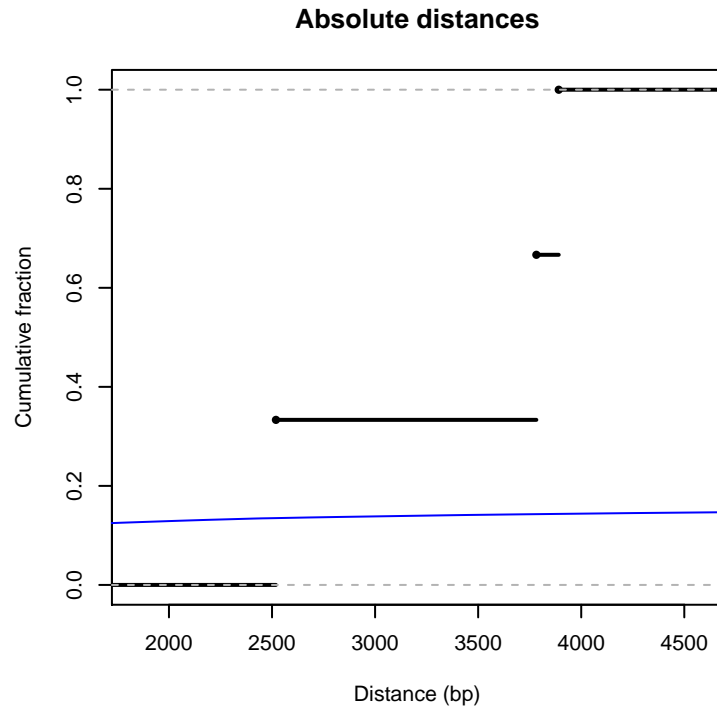
pcontig_067

Query population : 9
Reference population : 294
Relative Ks p-value : 0.0577069
Relative ecdf deviation area : 0.0917553
Relative ecdf area correlation : -0.347436
Relative ecdf deviation area p-value : 0.08
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.48
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.469647
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



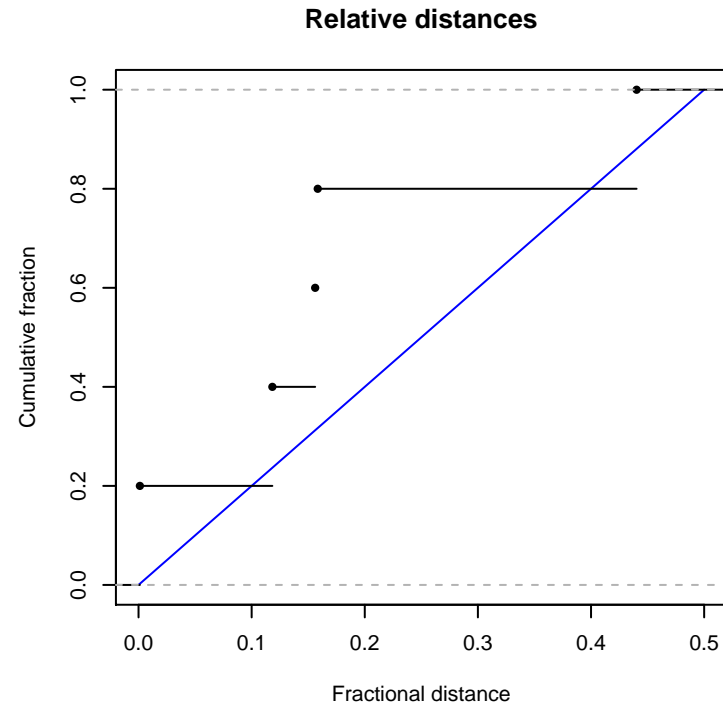
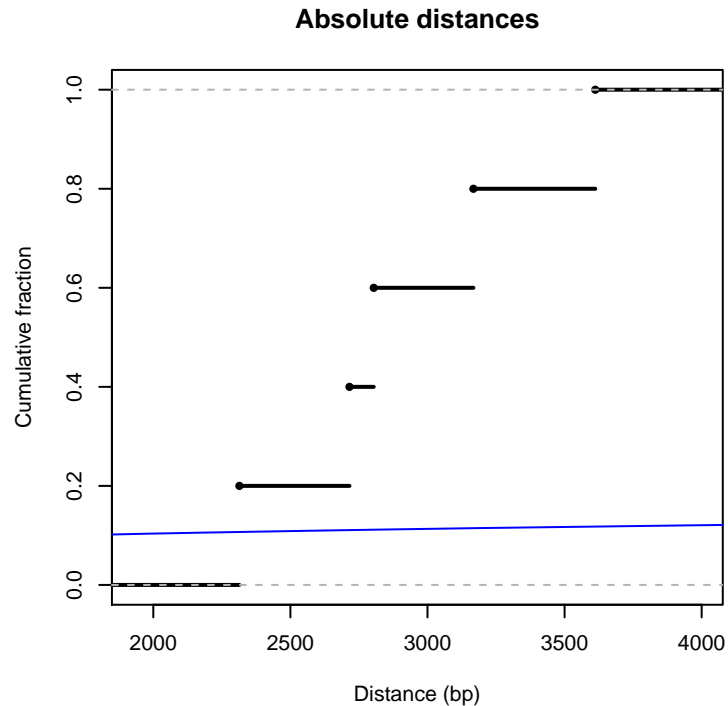
pcontig_068

Query population : 3
Reference population : 406
Relative Ks p-value : 0.498314
Relative ecdf deviation area : 0.0797226
Relative ecdf area correlation : -0.210938
Relative ecdf deviation area p-value : 0.54
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.37
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.280479
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



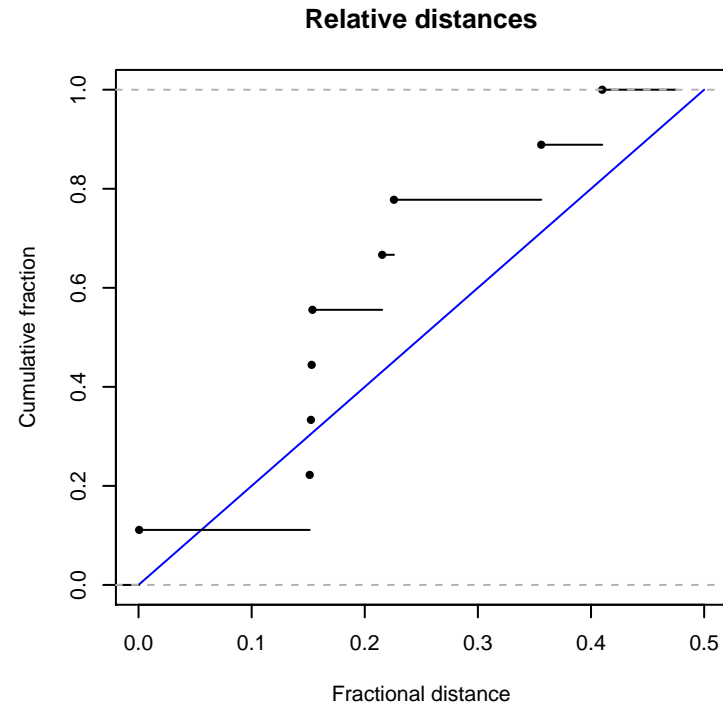
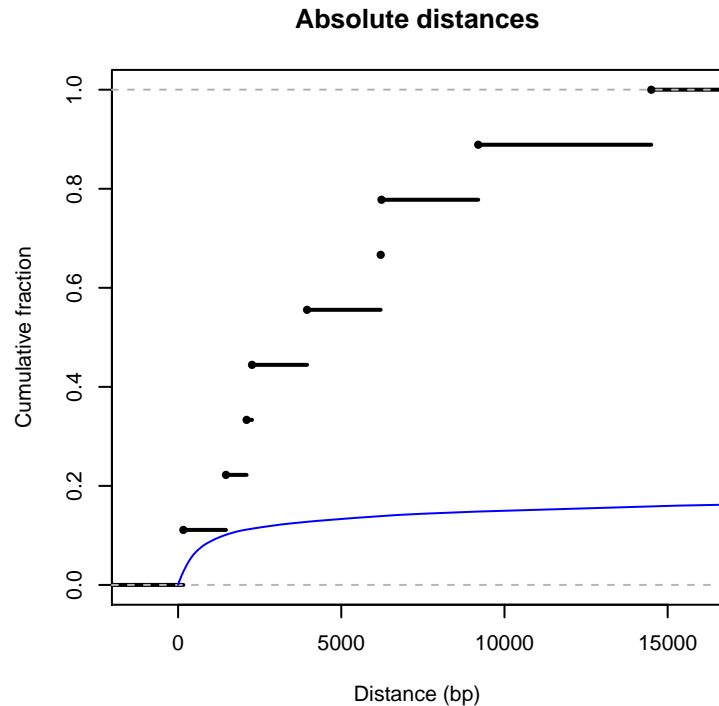
pcontig_069

Query population : 5
Reference population : 287
Relative Ks p-value : 0.136001
Relative ecdf deviation area : 0.0794145
Relative ecdf area correlation : 0.300515
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 : 0.4
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.31094
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



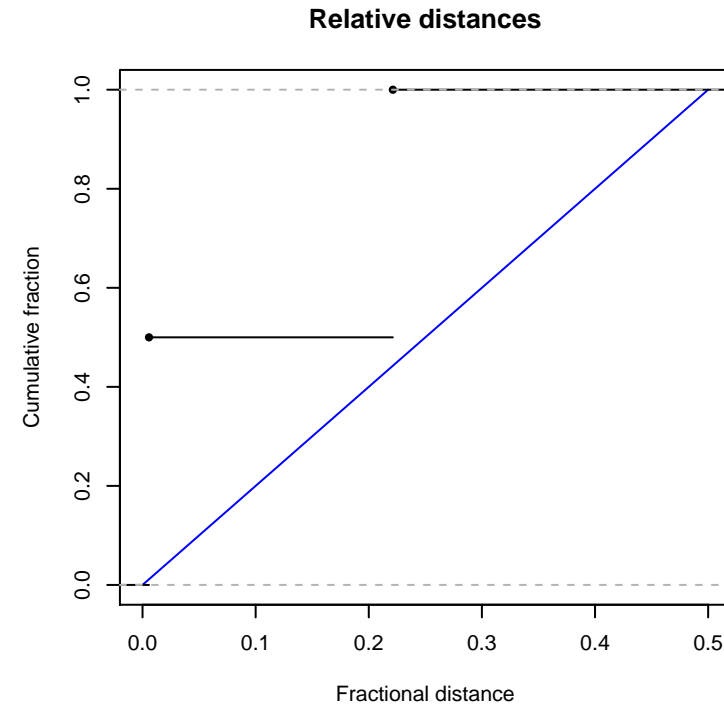
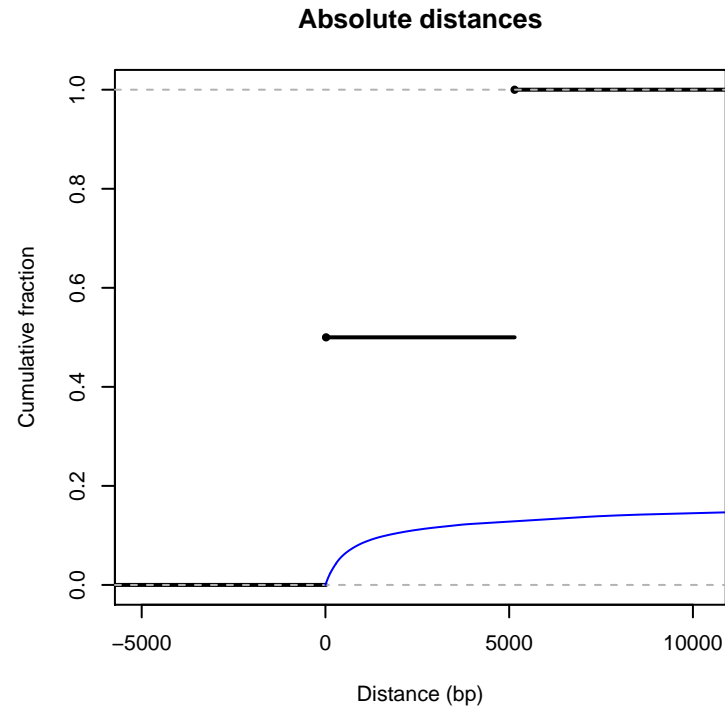
pcontig_070

Query population : 9
Reference population : 332
Relative Ks p-value : 0.236051
Relative ecdf deviation area : 0.0679258
Relative ecdf area correlation : 0.191965
Relative ecdf deviation area p-value : 0.17
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.43
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.159406
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.38305



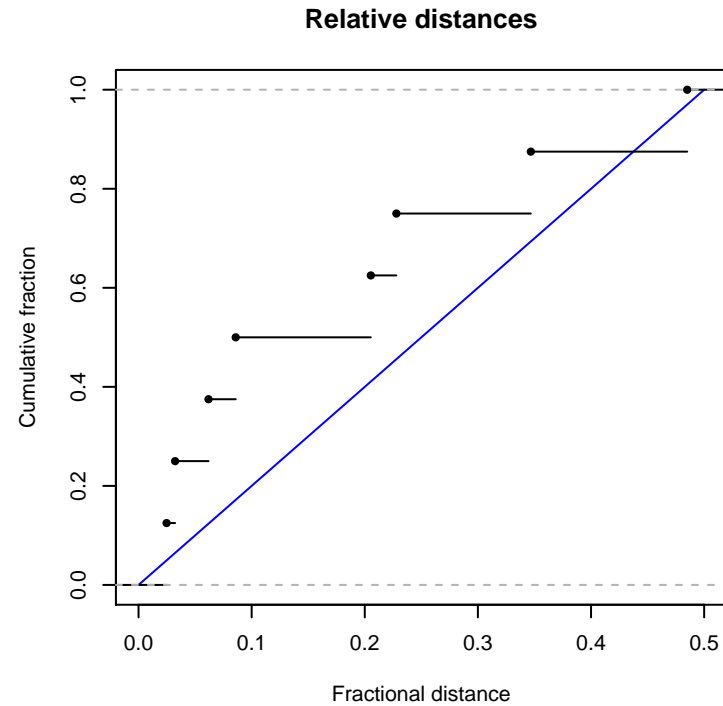
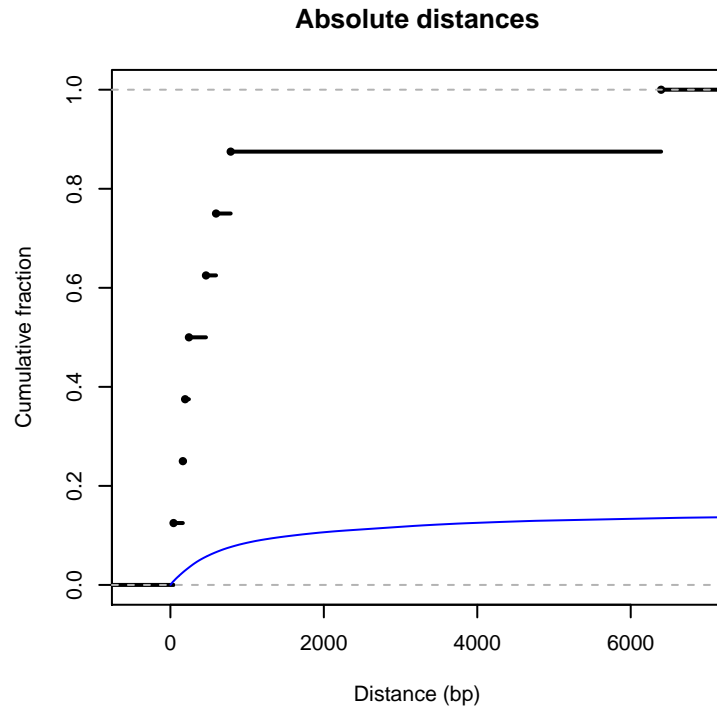
pcontig_072

Query population : 2
Reference population : 354
Relative Ks p-value : 0.391774
Relative ecdf deviation area : 0.136604
Relative ecdf area correlation : 0.545941
Relative ecdf deviation area p-value : 0.34
Scaled Absolute min. distance p-value : 0.02
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00547476
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.75752



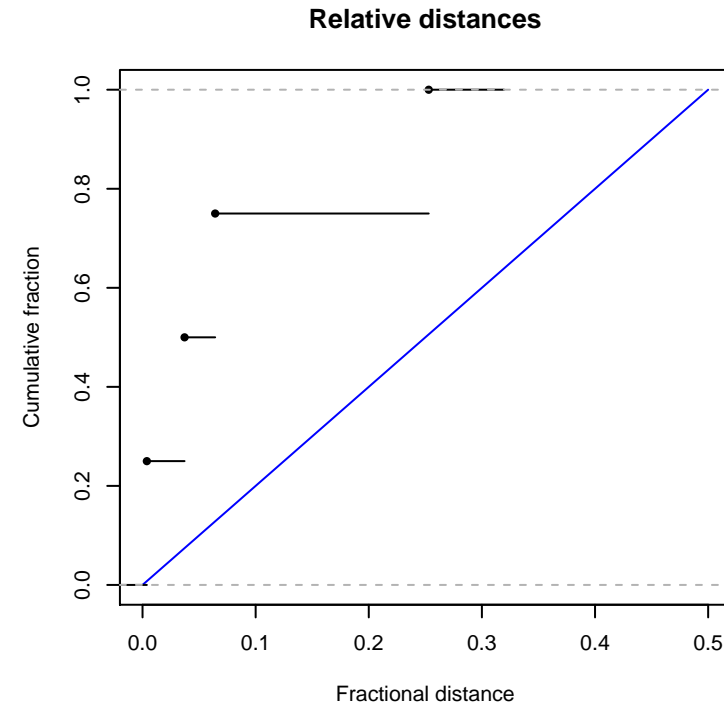
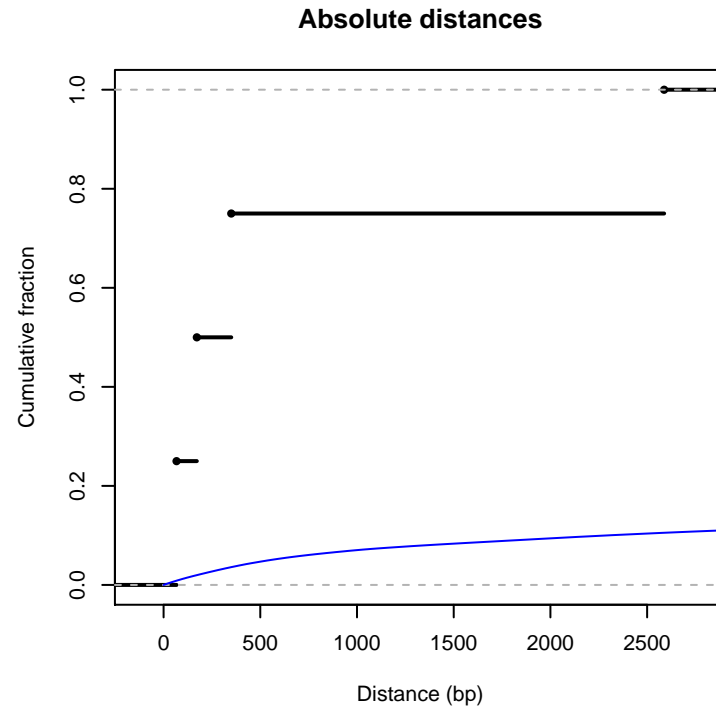
pcontig_073

Query population : 8
Reference population : 322
Relative Ks p-value : 0.287019
Relative ecdf deviation area : 0.0720111
Relative ecdf area correlation : 0.264985
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 : 2.03154e-09
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.679



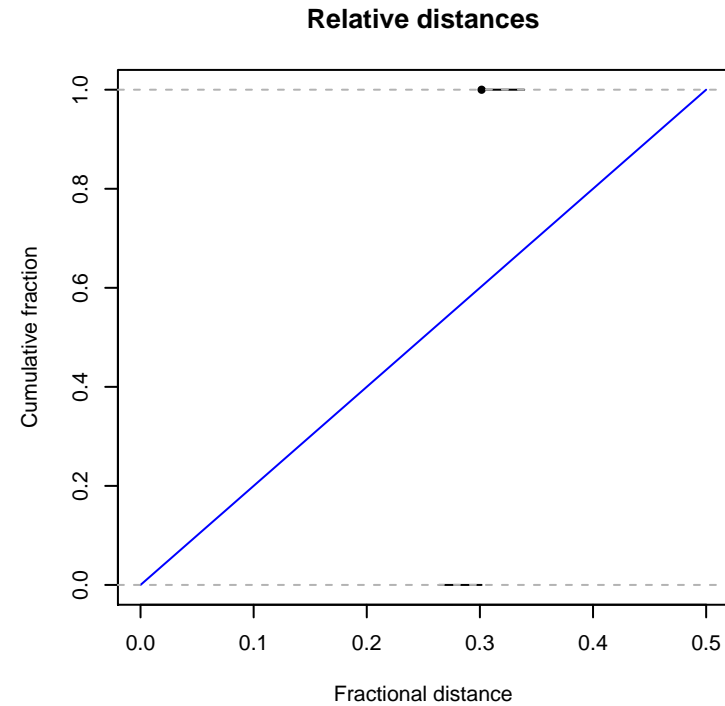
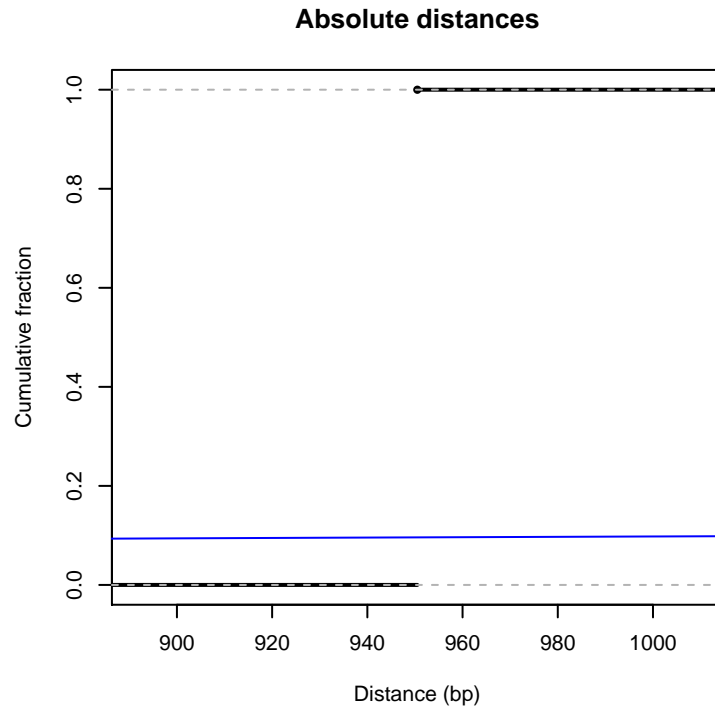
pcontig_074

Query population : 4
Reference population : 225
Relative Ks p-value : 0.0515349
Relative ecdf deviation area : 0.160463
Relative ecdf area correlation : 0.641846
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.23677e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 12.647



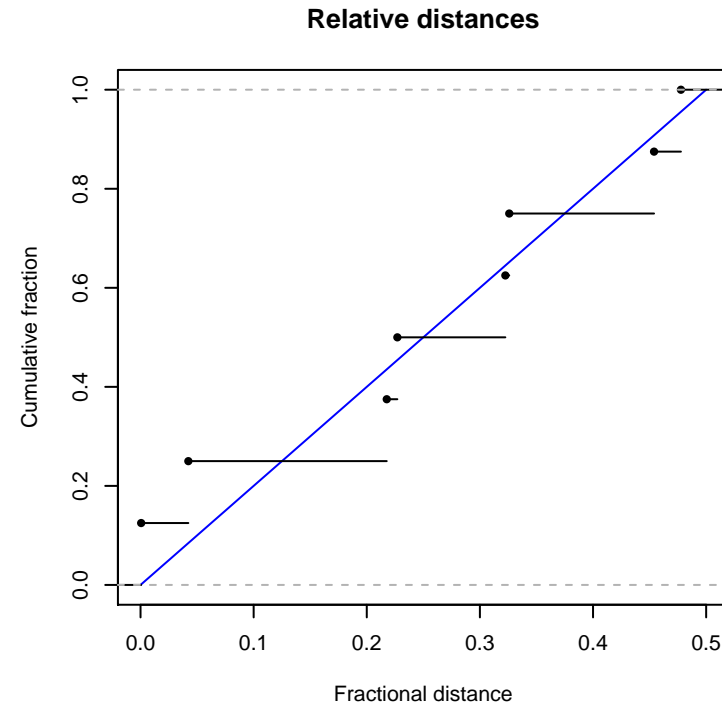
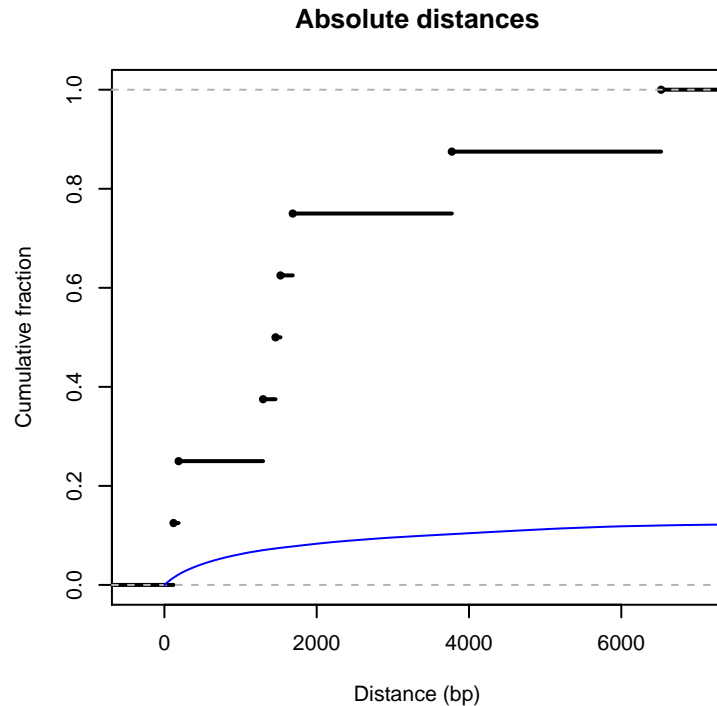
pcontig_075

Query population : 1
Reference population : 405
Relative Ks p-value : 0.793973
Relative ecdf deviation area : 0.130145
Relative ecdf area correlation : -0.206027
Relative ecdf deviation area p-value : 0.74
Scaled Absolute min. distance p-value : 0.07
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 10.5955



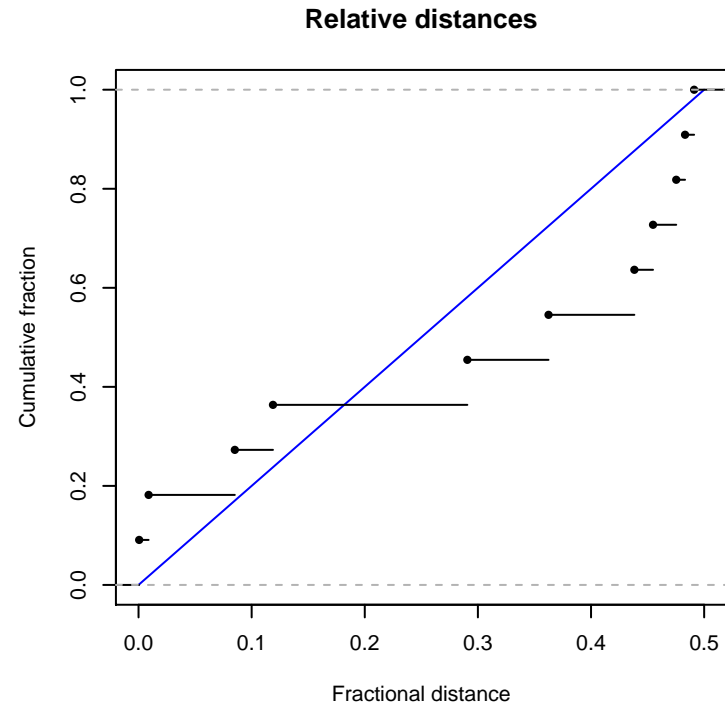
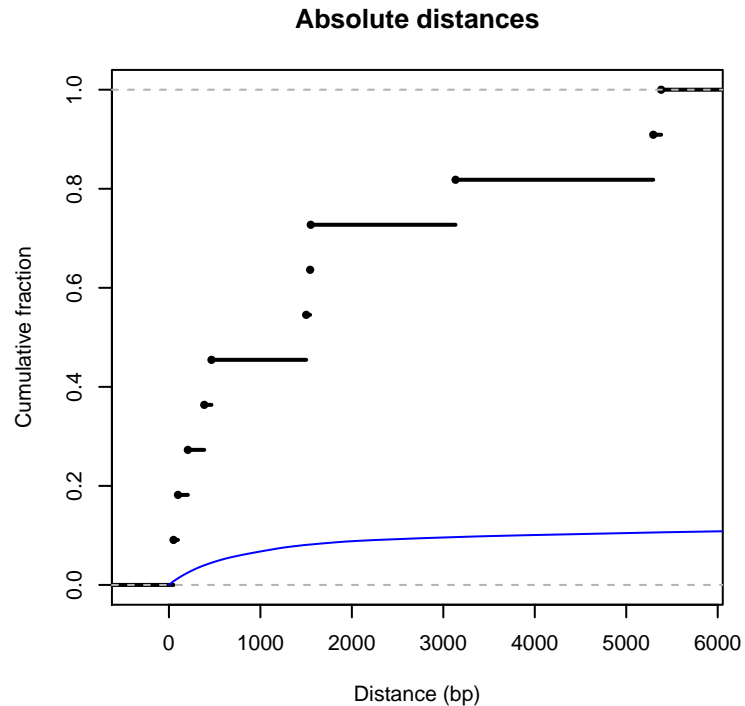
pcontig_077

Query population : 8
Reference population : 236
Relative Ks p-value : 0.902794
Relative ecdf deviation area : 0.0355061
Relative ecdf area correlation : -0.0337985
Relative ecdf deviation area p-value : 0.88
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.1
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000490343
Projection test lower tail : FALSE
Projection test observed to expected ratio : 6.97666



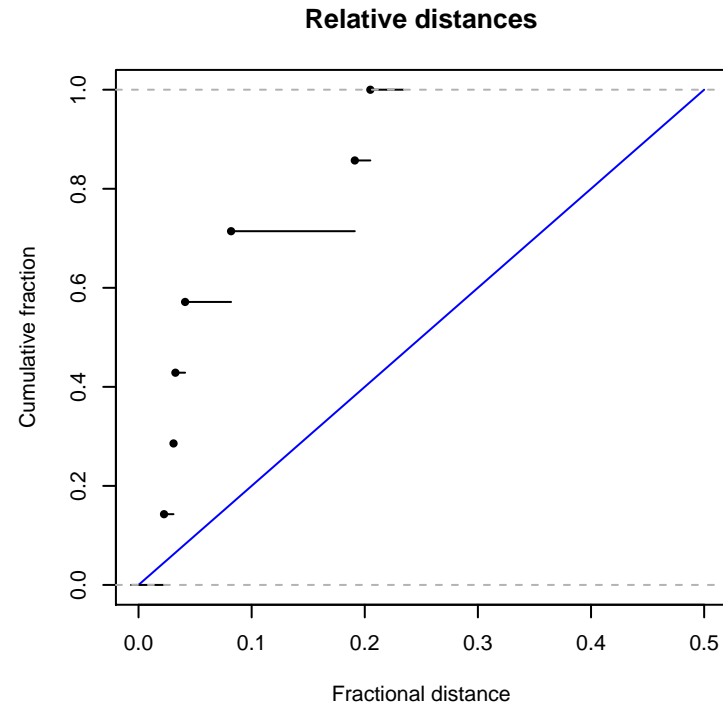
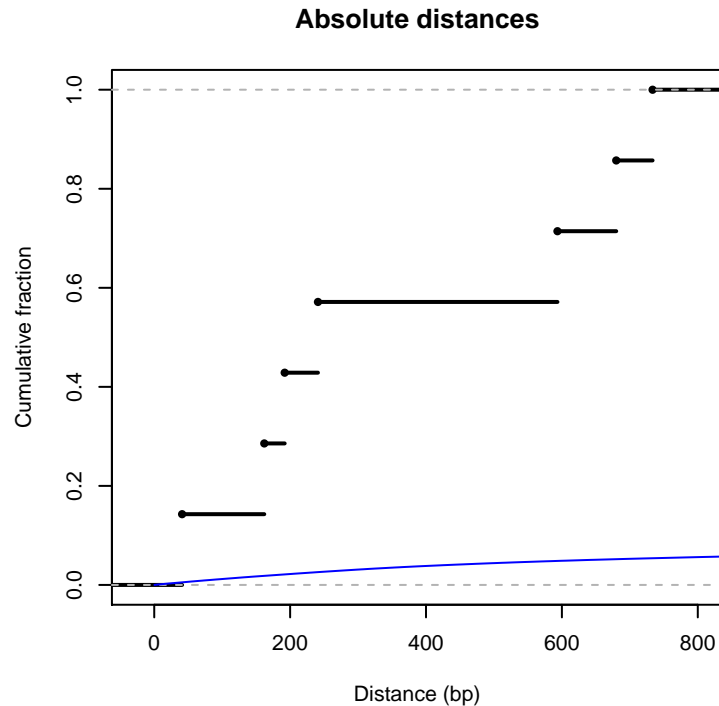
pcontig_078

Query population : 11
Reference population : 251
Relative Ks p-value : 0.14131
Relative ecdf deviation area : 0.0691519
Relative ecdf area correlation : -0.166997
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 : 1.90277e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 7.39454



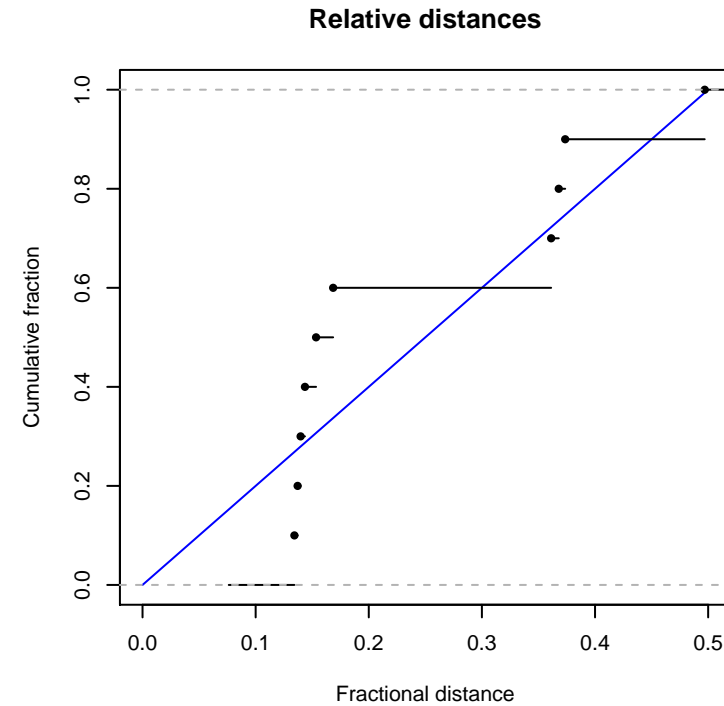
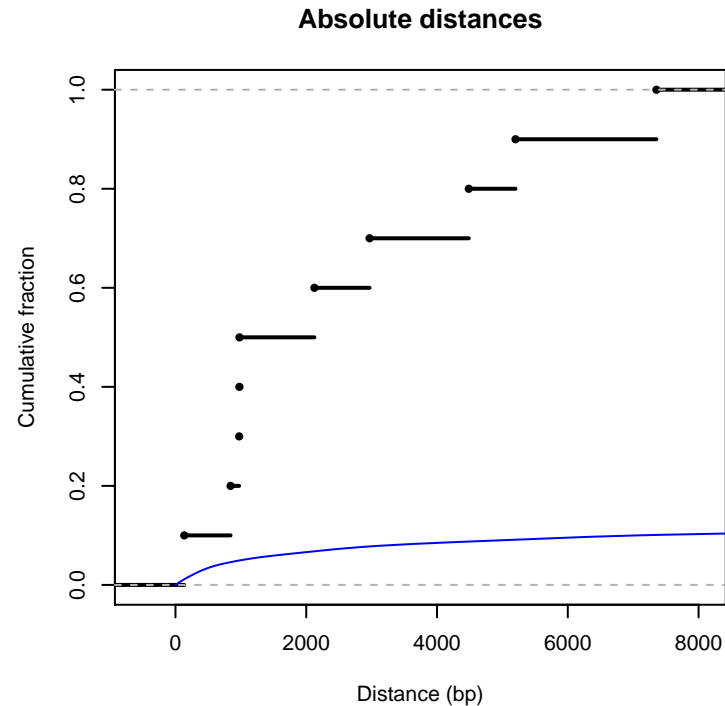
pcontig_080

Query population : 7
Reference population : 224
Relative Ks p-value : 0.00751313
Relative ecdf deviation area : 0.164758
Relative ecdf area correlation : 0.654188
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 18.4036



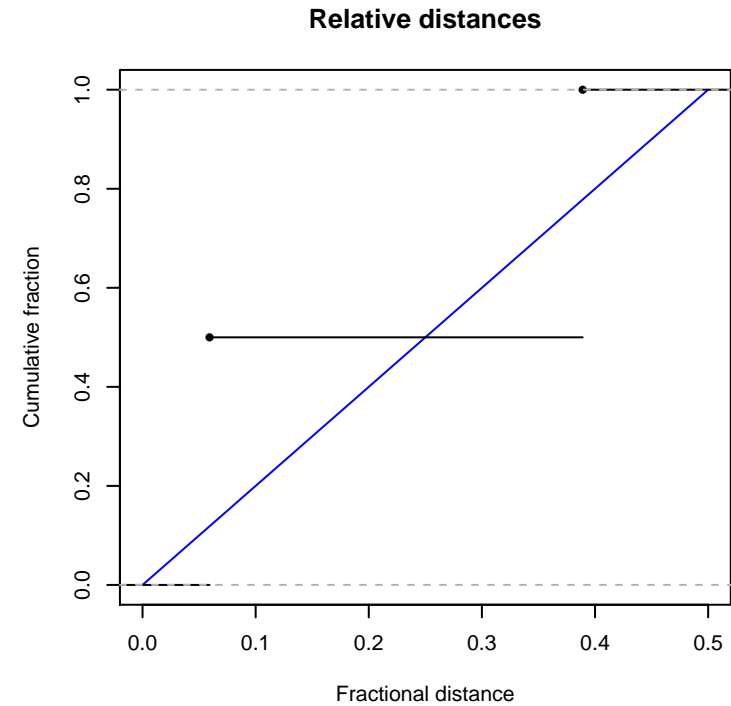
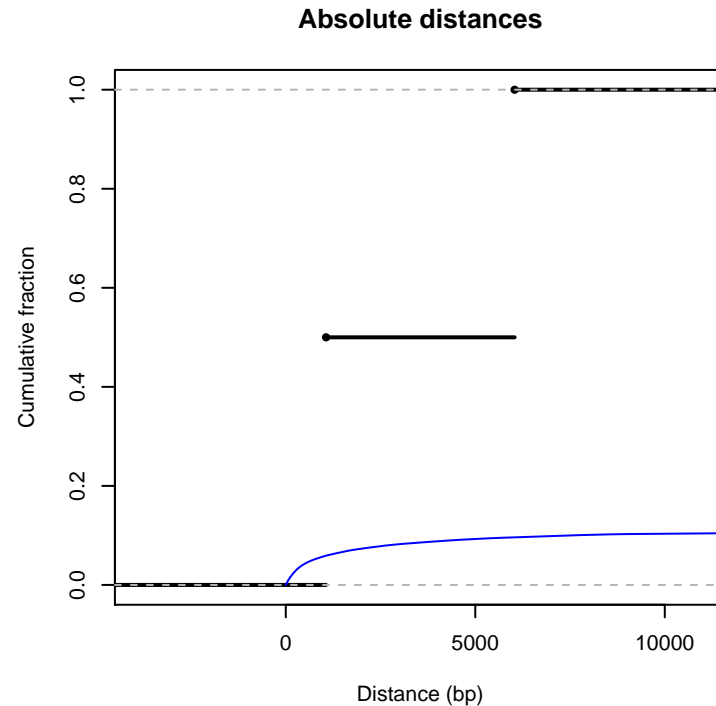
pcontig_081

Query population : 10
Reference population : 155
Relative Ks p-value : 0.395789
Relative ecdf deviation area : 0.0539744
Relative ecdf area correlation : 0.00947845
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 : 0.00922772
Projection test lower tail : FALSE
Projection test observed to expected ratio : 4.3348



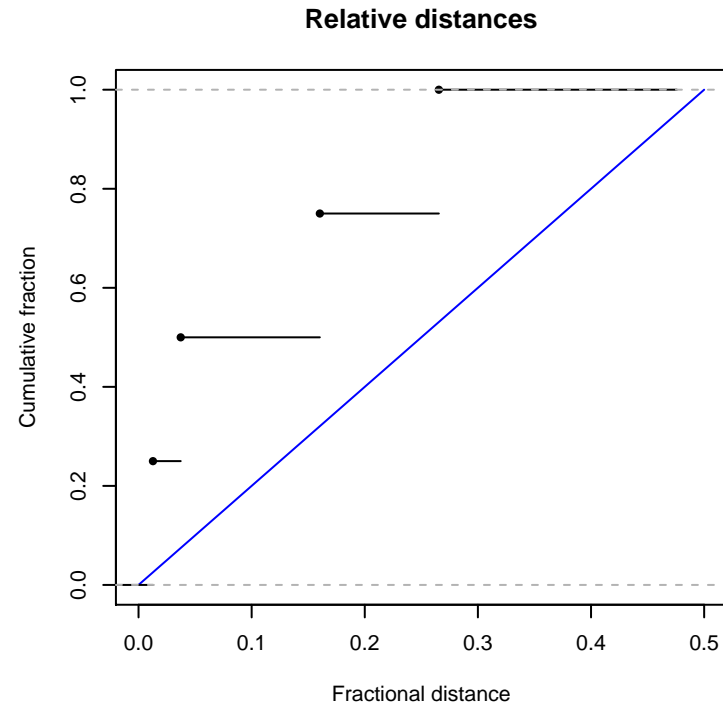
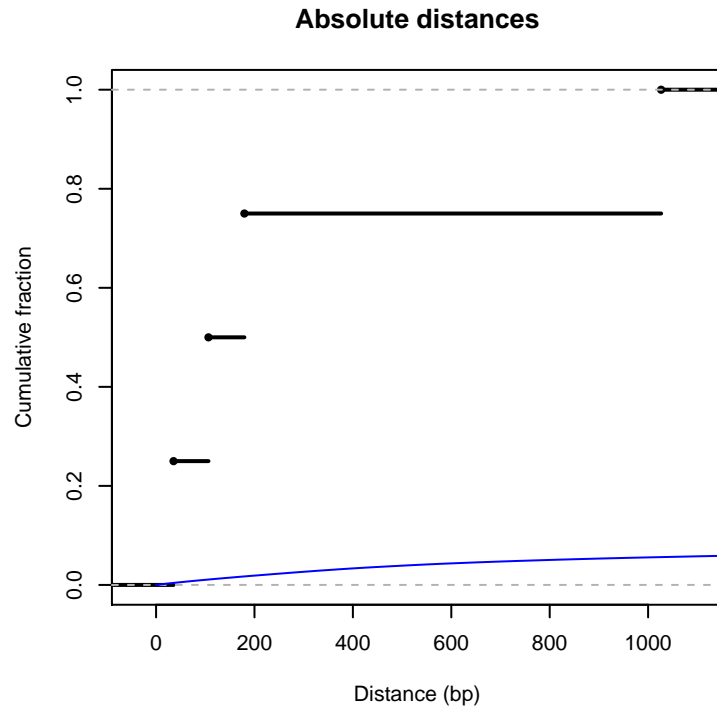
pcontig_082

Query population : 2
Reference population : 254
Relative Ks p-value : 0.861598
Relative ecdf deviation area : 0.0715901
Relative ecdf area correlation : 0.103388
Relative ecdf deviation area p-value : 0.93
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.1
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0995678
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



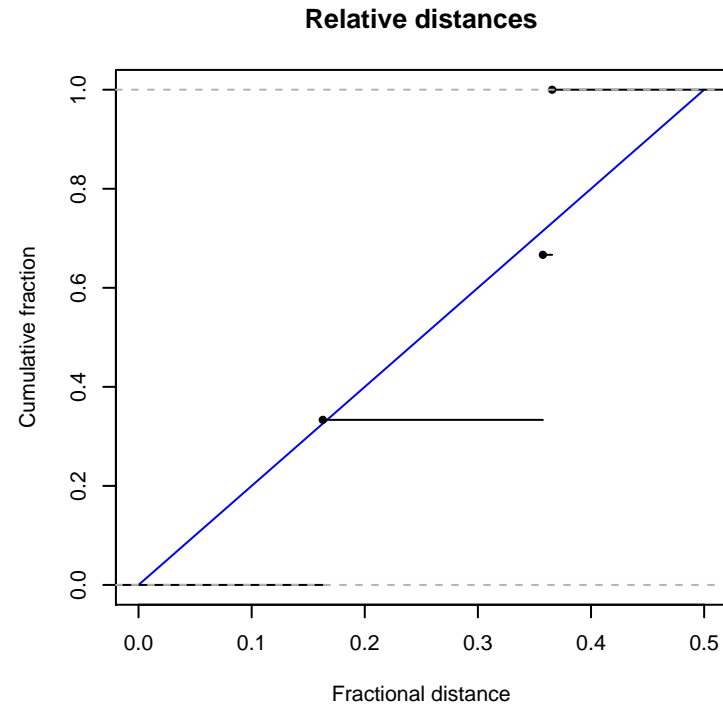
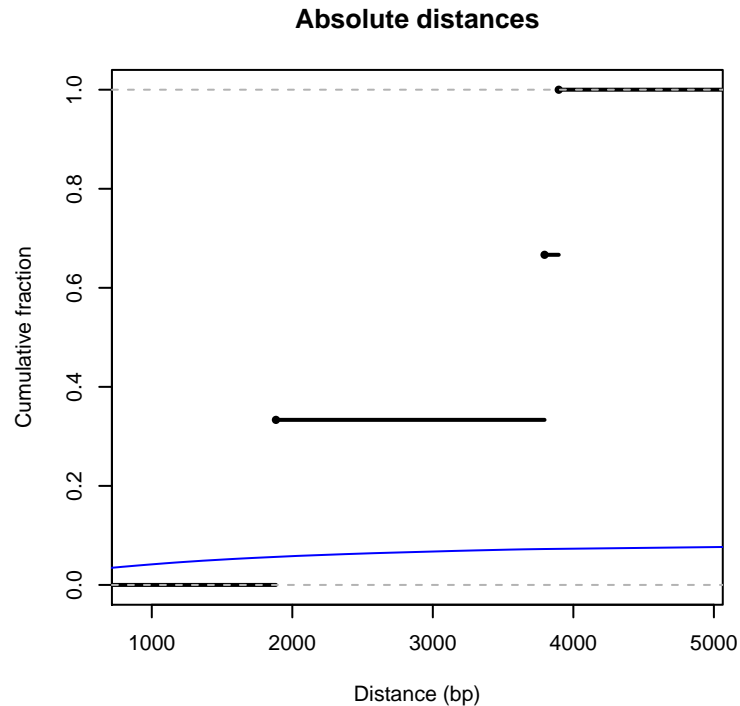
pcontig_083

Query population : 4
Reference population : 199
Relative Ks p-value : 0.24741
Relative ecdf deviation area : 0.131753
Relative ecdf area correlation : 0.524219
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 : 4.70567e-06
Projection test lower tail : FALSE
Projection test observed to expected ratio : 16.103



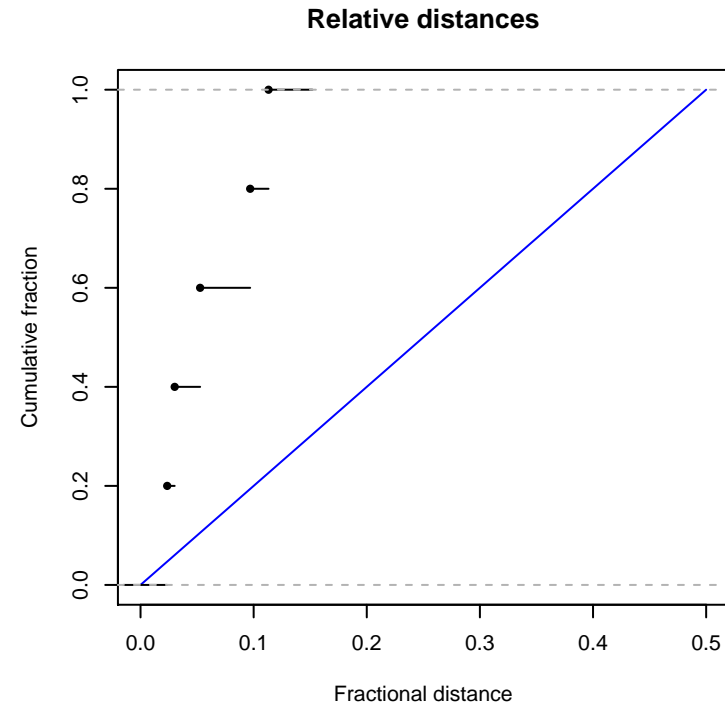
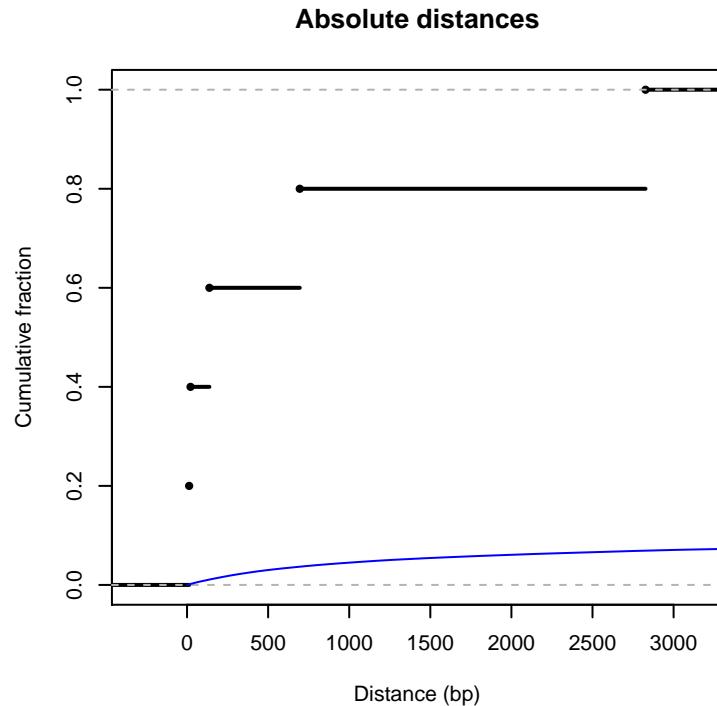
pcontig_084

Query population : 3
Reference population : 135
Relative Ks p-value : 0.645874
Relative ecdf deviation area : 0.0816558
Relative ecdf area correlation : -0.181294
Relative ecdf deviation area p-value : 0.59
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.13
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.134866
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



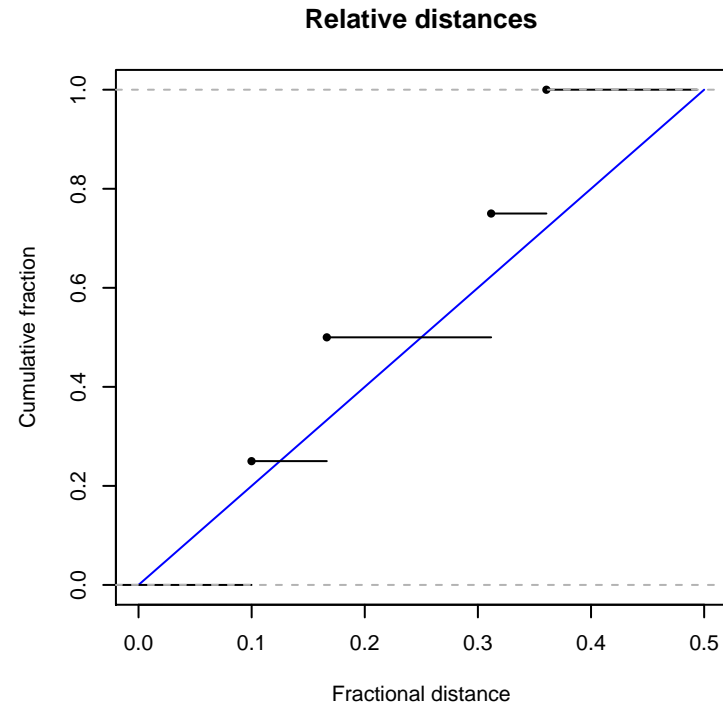
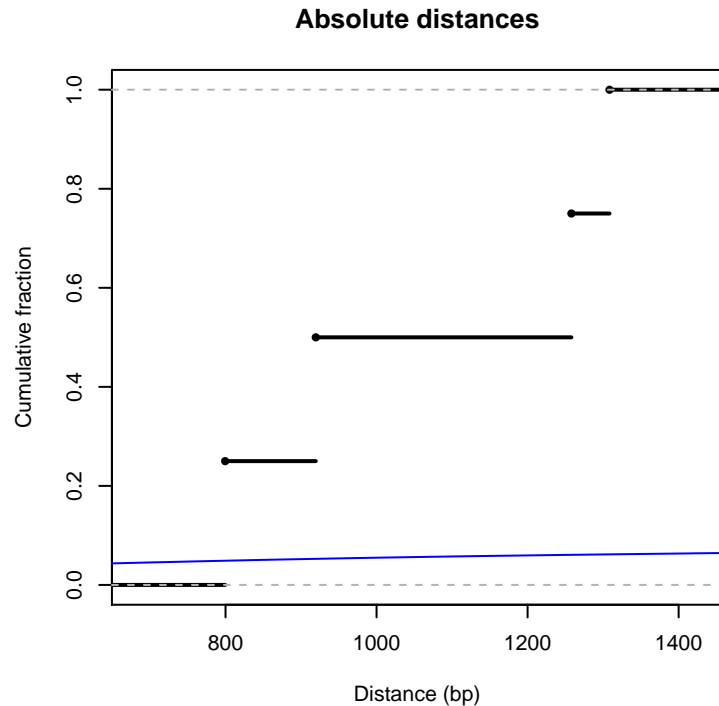
pcontig_086

Query population : 5
Reference population : 149
Relative Ks p-value : 0.00119247
Relative ecdf deviation area : 0.187918
Relative ecdf area correlation : 0.746737
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 1.44042e-07
Projection test lower tail : FALSE
Projection test observed to expected ratio : 18.6807



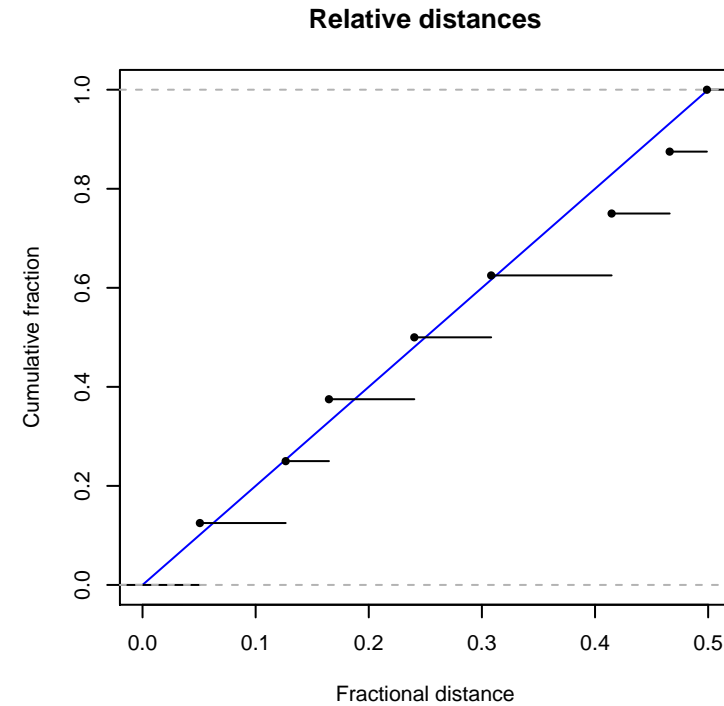
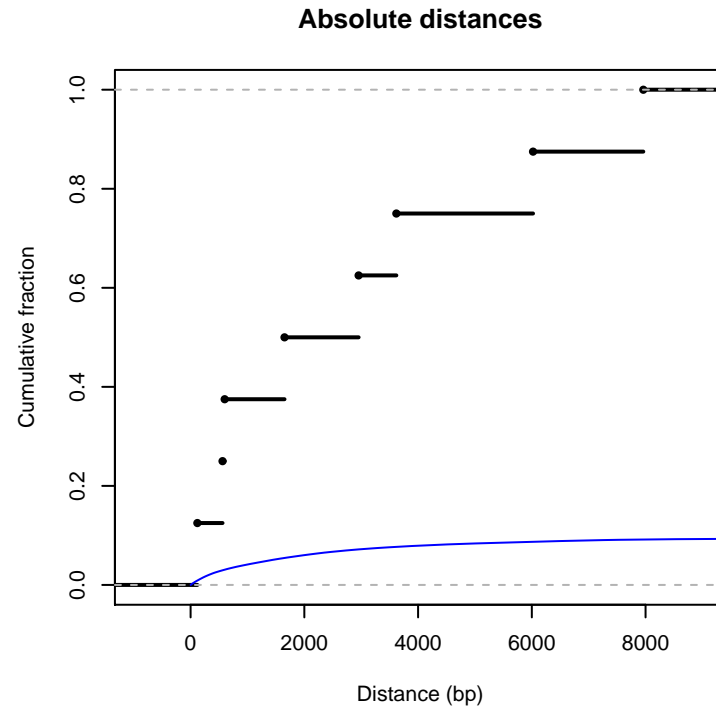
pcontig_087

Query population : 4
Reference population : 189
Relative Ks p-value : 0.833019
Relative ecdf deviation area : 0.0462181
Relative ecdf area correlation : 0.0614555
Relative ecdf deviation area p-value : 0.86
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 : 0.185241
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



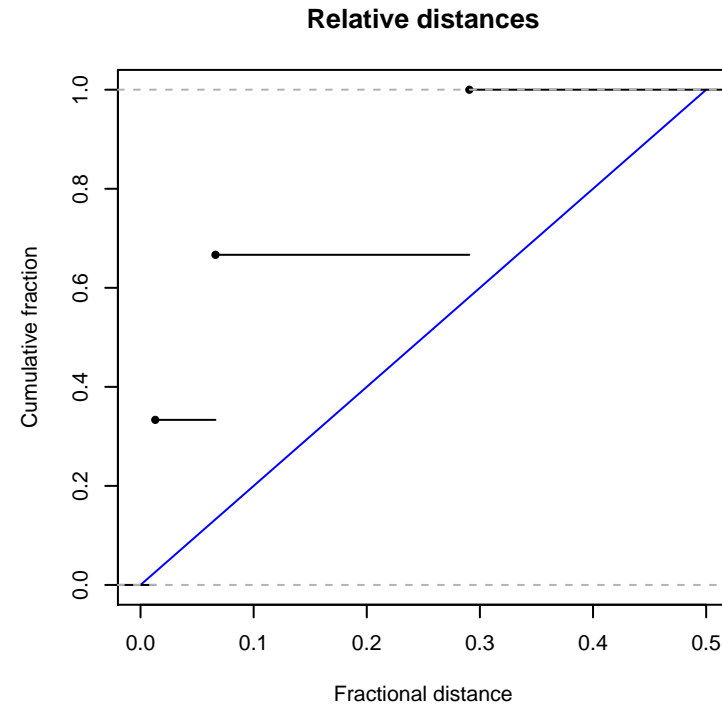
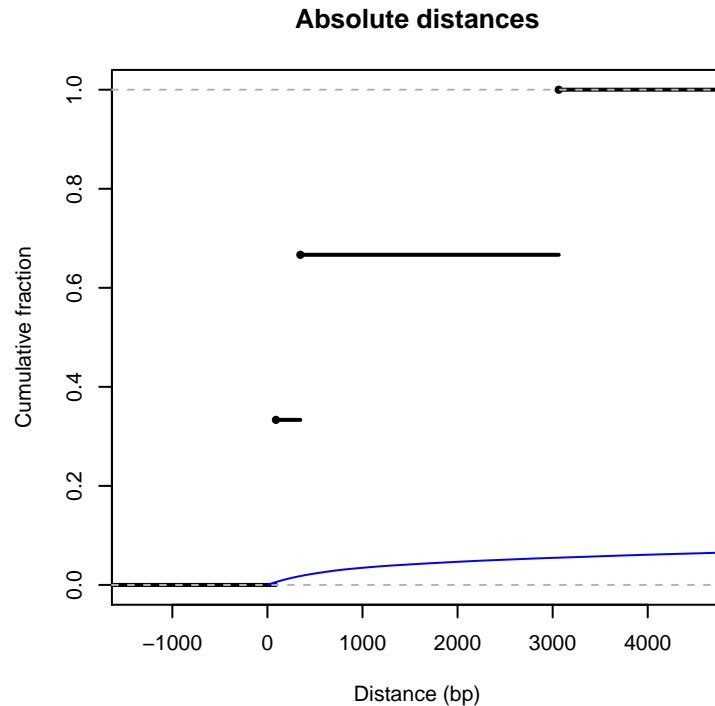
pcontig_088

Query population : 8
Reference population : 144
Relative Ks p-value : 0.830256
Relative ecdf deviation area : 0.0349917
Relative ecdf area correlation : -0.135017
Relative ecdf deviation area p-value : 0.83
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000127818
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.89259



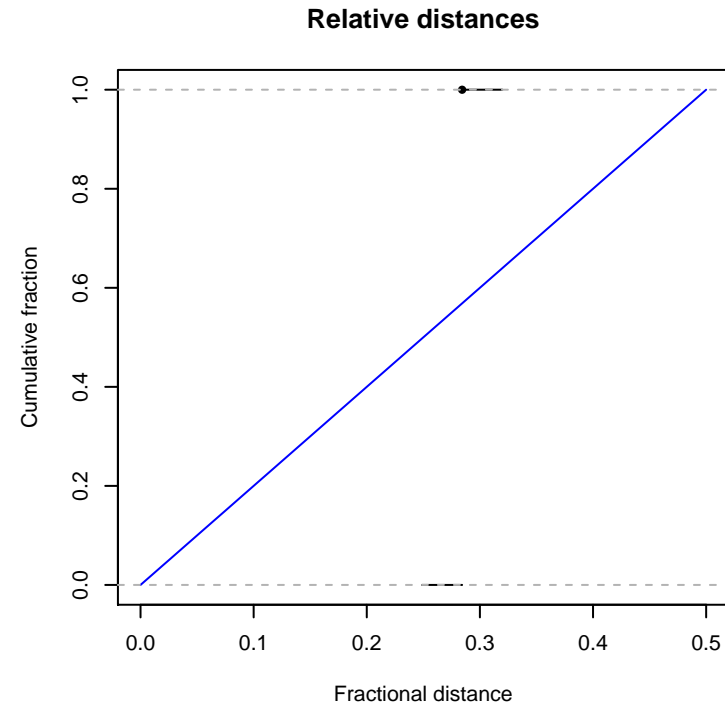
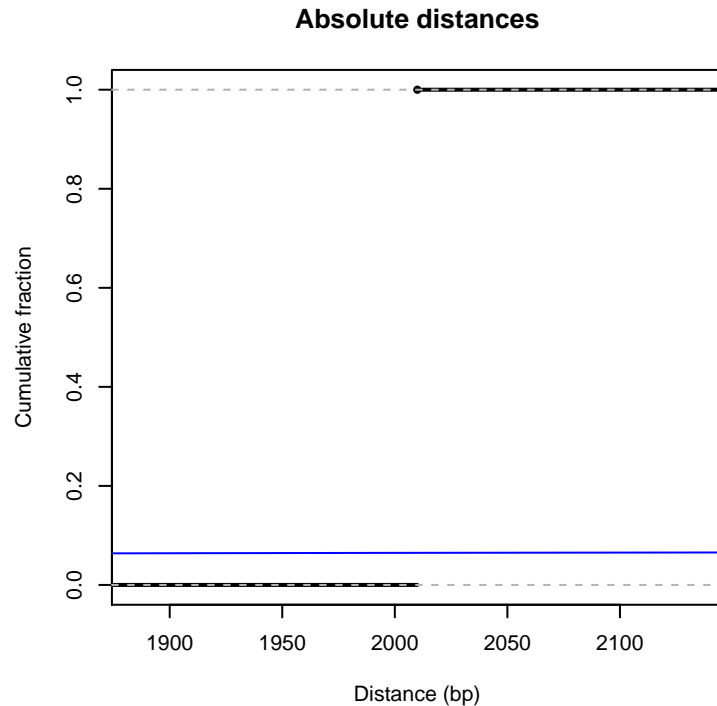
pcontig_089

Query population : 3
Reference population : 120
Relative Ks p-value : 0.258429
Relative ecdf deviation area : 0.127173
Relative ecdf area correlation : 0.506787
Relative ecdf deviation area p-value : 0.17
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 2.37135e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 23.2047



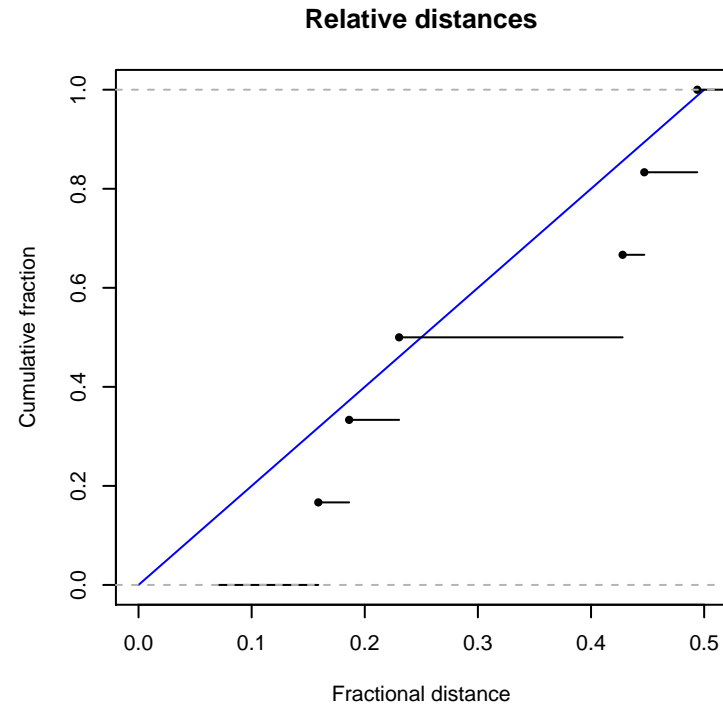
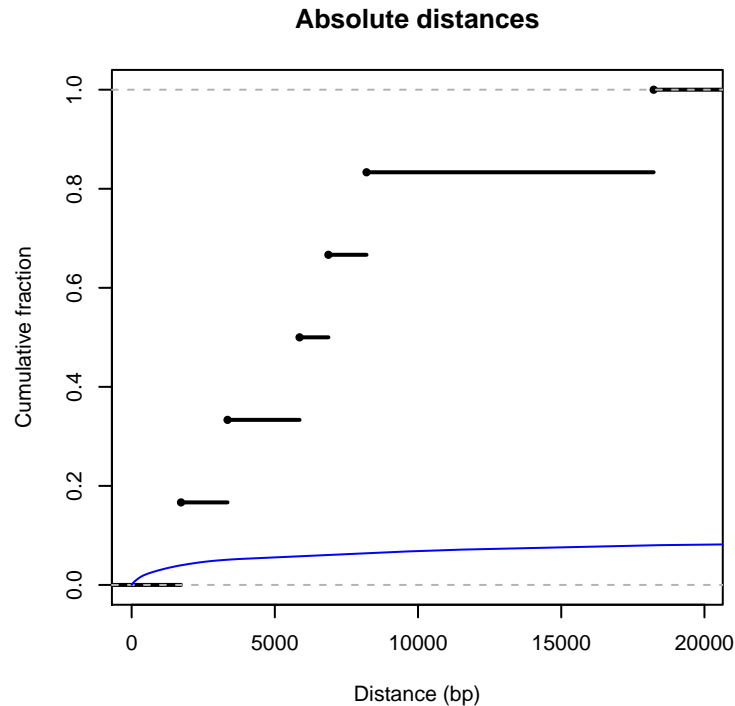
pcontig_090

Query population : 1
Reference population : 222
Relative Ks p-value : 0.862801
Relative ecdf deviation area : 0.126943
Relative ecdf area correlation : -0.137199
Relative ecdf deviation area p-value : 0.89
Scaled Absolute min. distance p-value : 0.04
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0487098
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



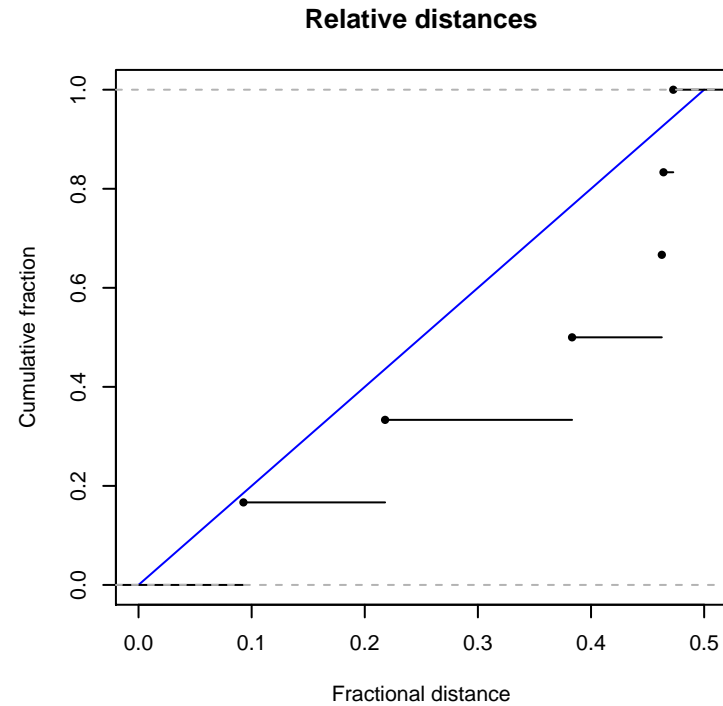
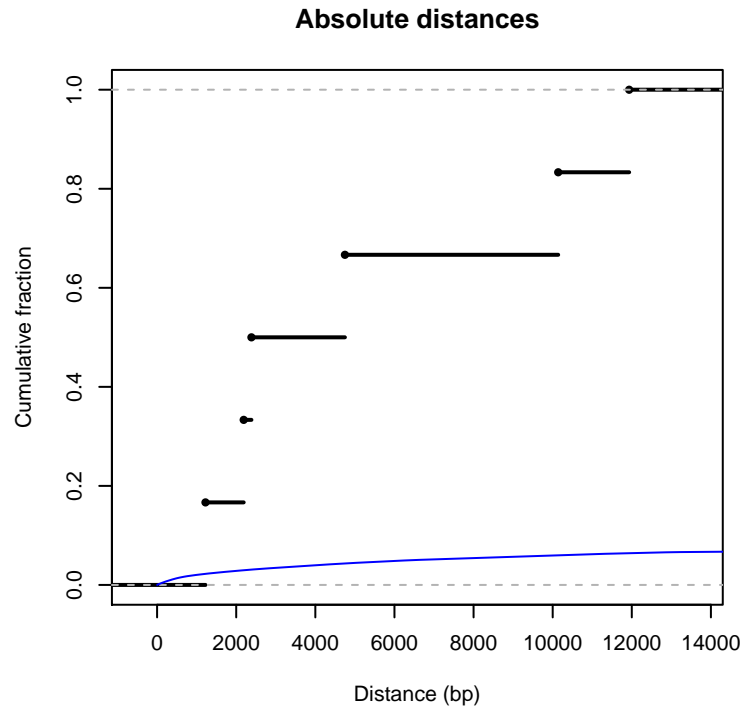
pcontig_091

Query population : 6
Reference population : 129
Relative Ks p-value : 0.347827
Relative ecdf deviation area : 0.0749497
Relative ecdf area correlation : -0.296273
Relative ecdf deviation area p-value : 0.29
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.23
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.18289
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



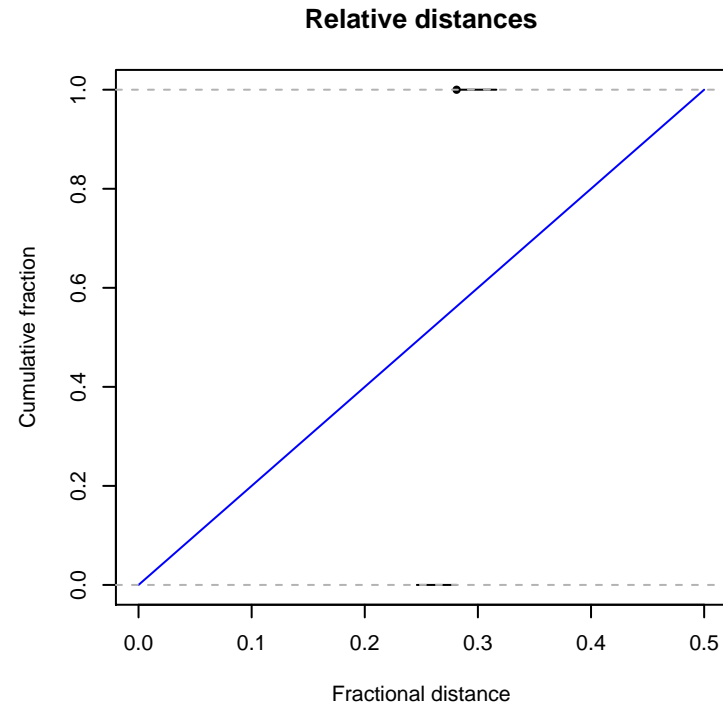
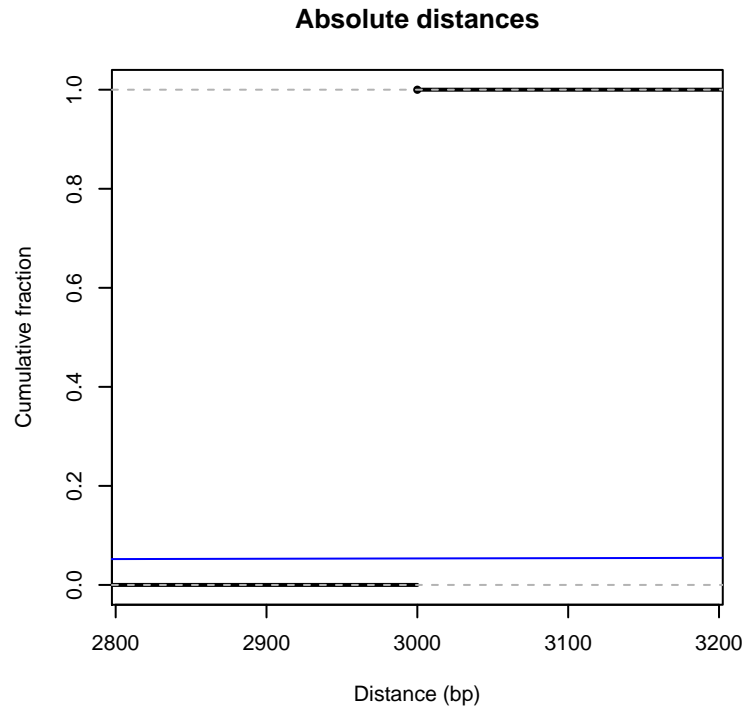
pcontig_092

Query population : 6
Reference population : 61
Relative Ks p-value : 0.153787
Relative ecdf deviation area : 0.100331
Relative ecdf area correlation : -0.395514
Relative ecdf deviation area p-value : 0.1
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.16
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0879509
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



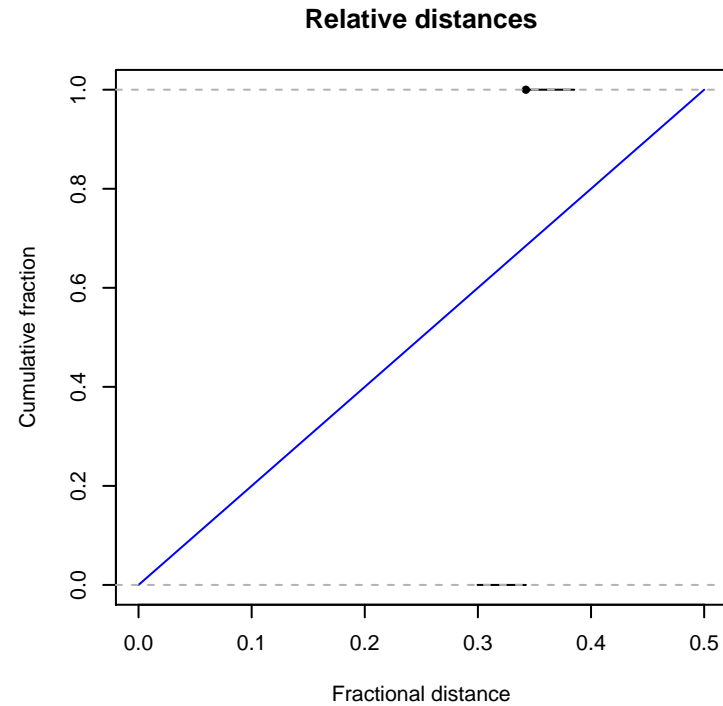
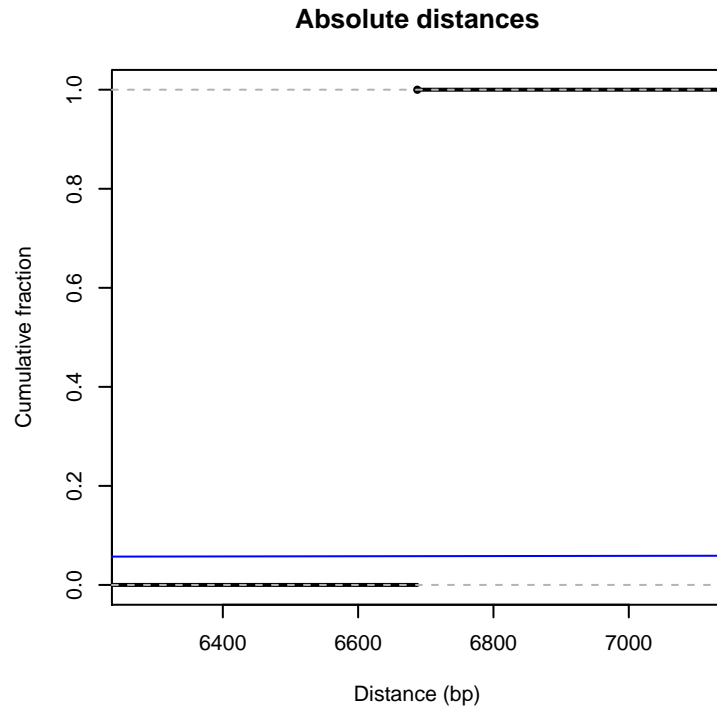
pcontig_095

Query population : 1
Reference population : 120
Relative Ks p-value : 0.875299
Relative ecdf deviation area : 0.126943
Relative ecdf area correlation : -0.124701
Relative ecdf deviation area p-value : 0.82
Scaled Absolute min. distance p-value : 0.03
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0315132
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



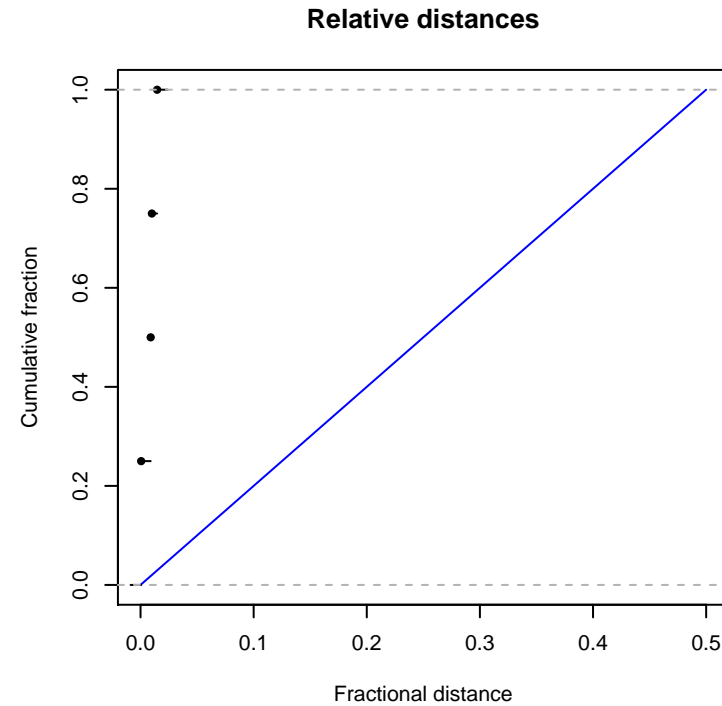
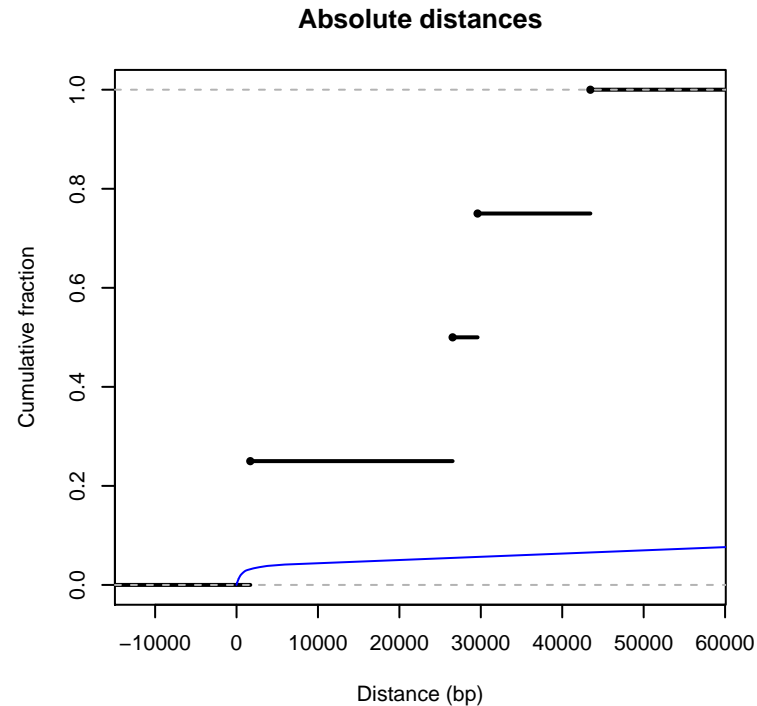
pcontig_097

Query population : 1
Reference population : 109
Relative Ks p-value : 0.630347
Relative ecdf deviation area : 0.142003
Relative ecdf area correlation : -0.369653
Relative ecdf deviation area p-value : 0.58
Scaled Absolute min. distance p-value : 0.03
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0307692
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



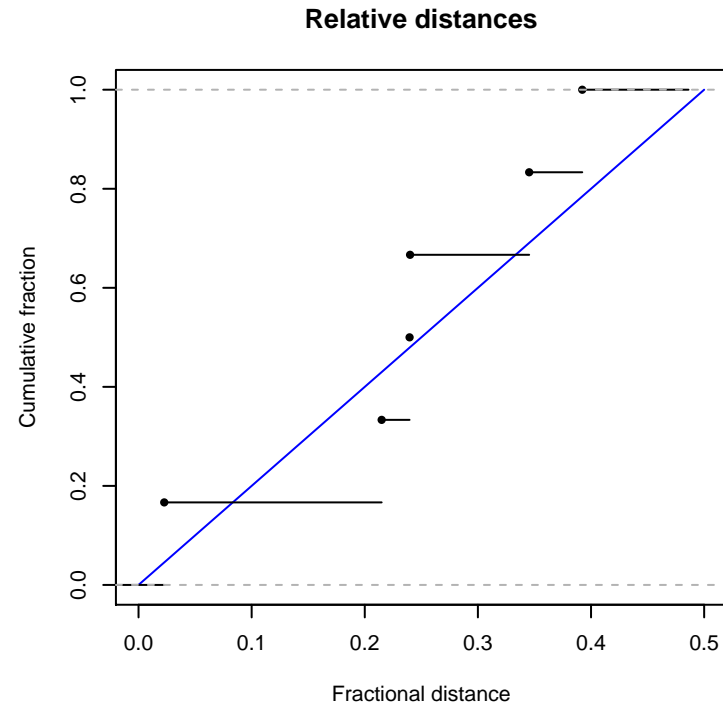
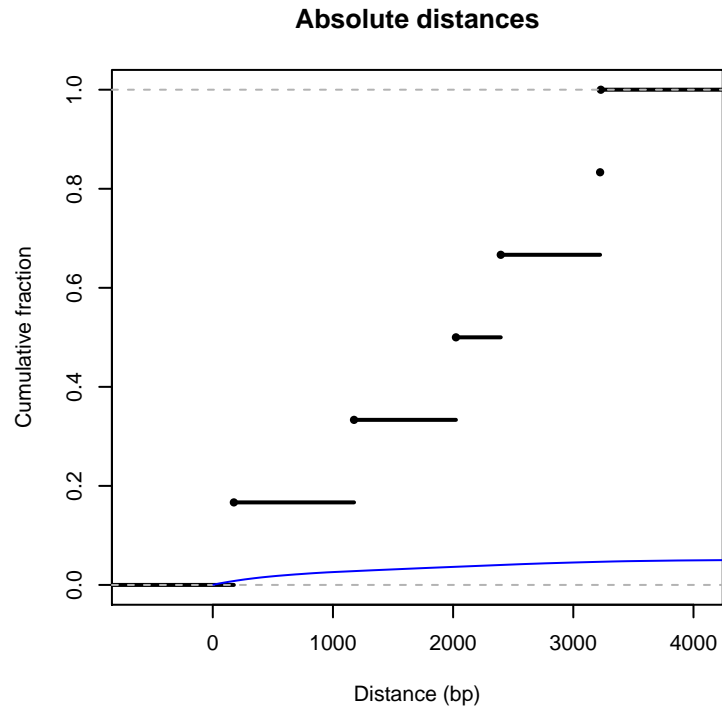
pcontig_100

Query population : 4
Reference population : 102
Relative Ks p-value : 1.49011e-06
Relative ecdf deviation area : 0.241255
Relative ecdf area correlation : 0.96576
Relative ecdf deviation 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 : 0.103654
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



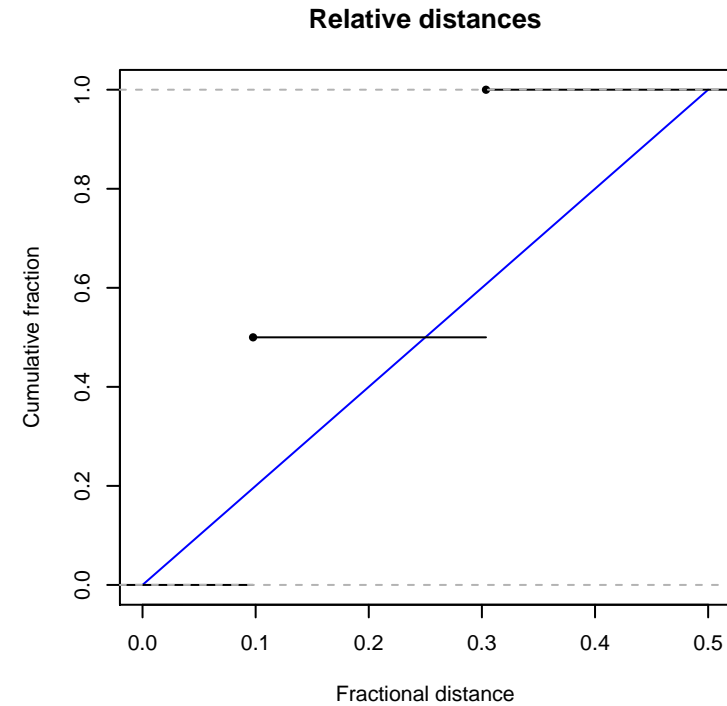
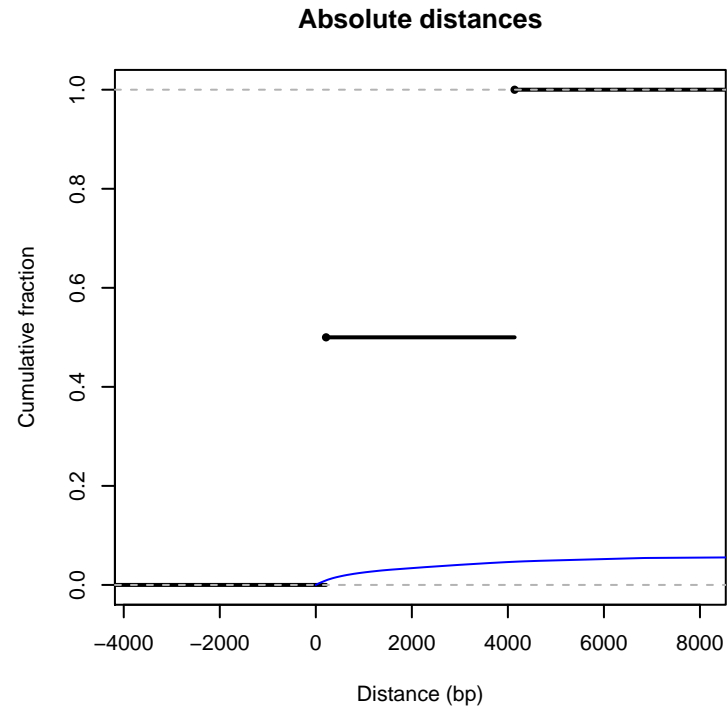
pcontig_103

Query population : 6
Reference population : 89
Relative Ks p-value : 0.714638
Relative ecdf deviation area : 0.0496087
Relative ecdf area correlation : 0.0300993
Relative ecdf deviation area p-value : 0.58
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00477316
Projection test lower tail : FALSE
Projection test observed to expected ratio : 9.1173



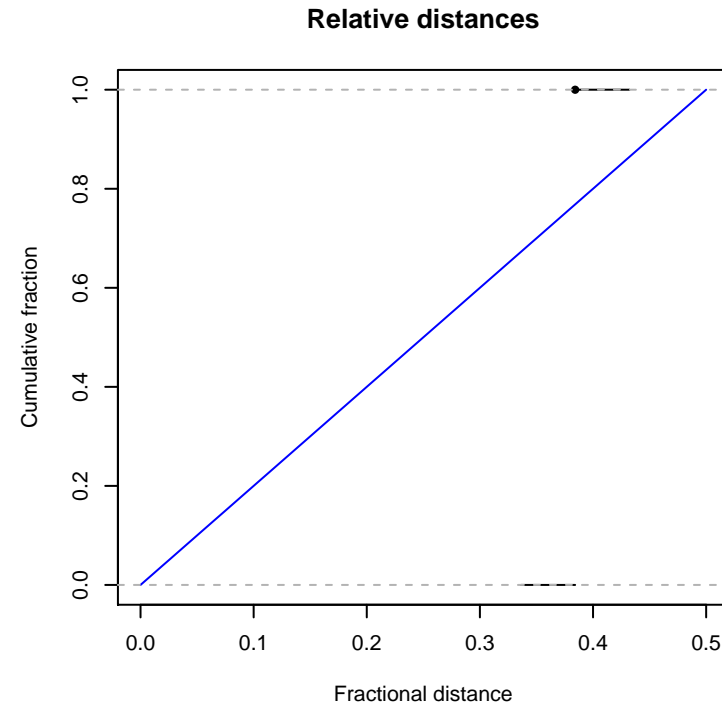
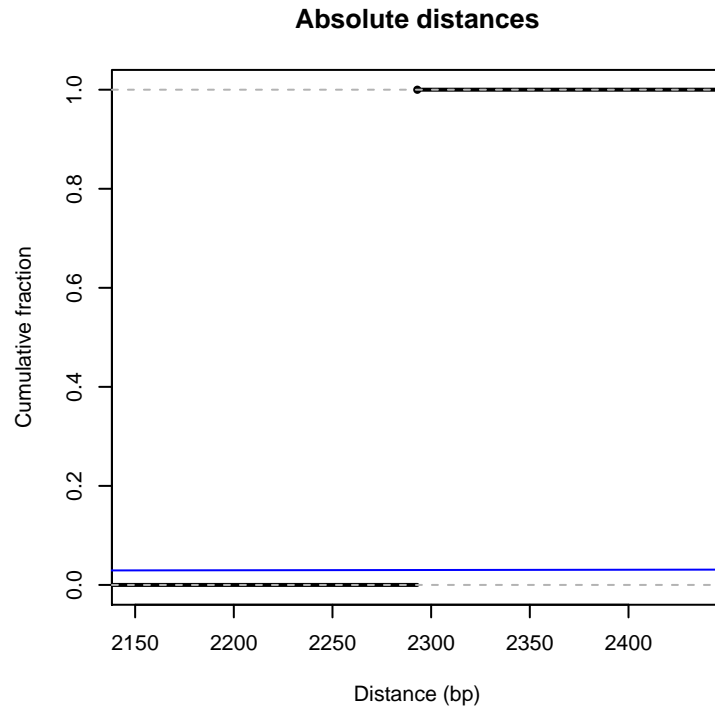
pcontig_104

Query population : 2
Reference population : 91
Relative Ks p-value : 0.837004
Relative ecdf deviation area : 0.0742061
Relative ecdf area correlation : 0.197316
Relative ecdf deviation area p-value : 0.88
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000489093
Projection test lower tail : FALSE
Projection test observed to expected ratio : 22.6086



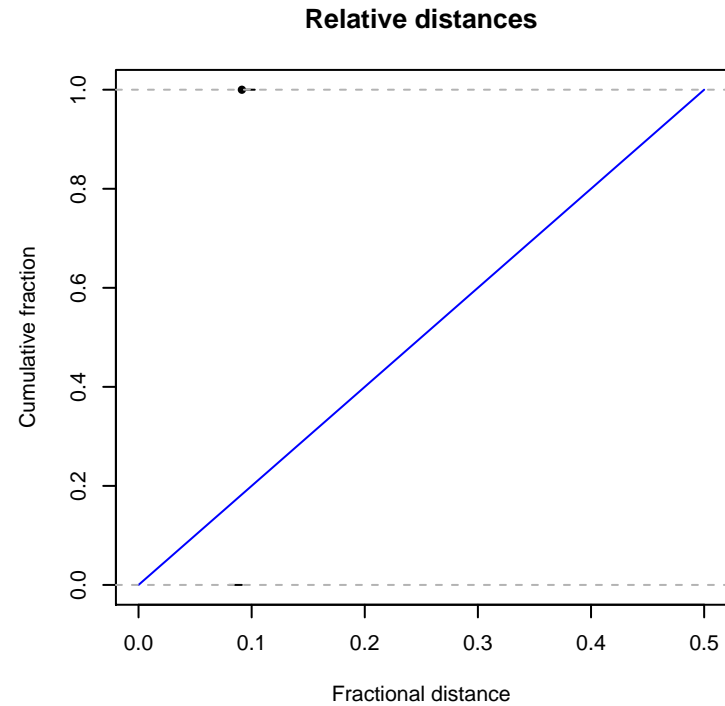
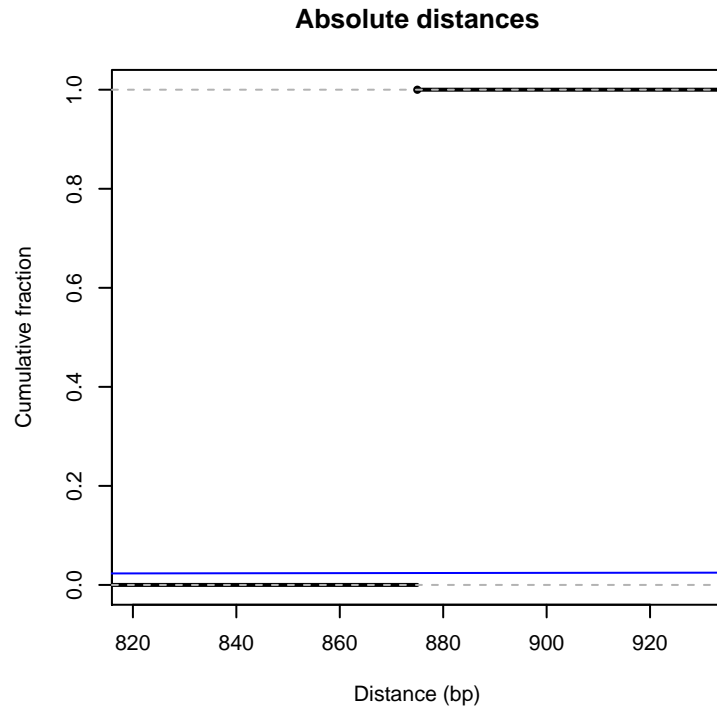
pcontig_106

Query population : 1
Reference population : 75
Relative Ks p-value : 0.463265
Relative ecdf deviation area : 0.160562
Relative ecdf area correlation : -0.536735
Relative ecdf deviation area p-value : 0.48
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.016561
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



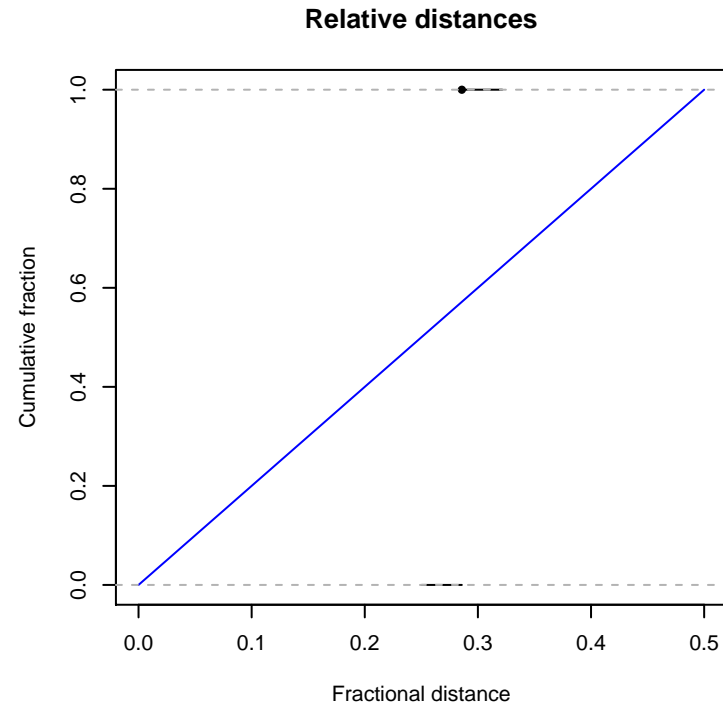
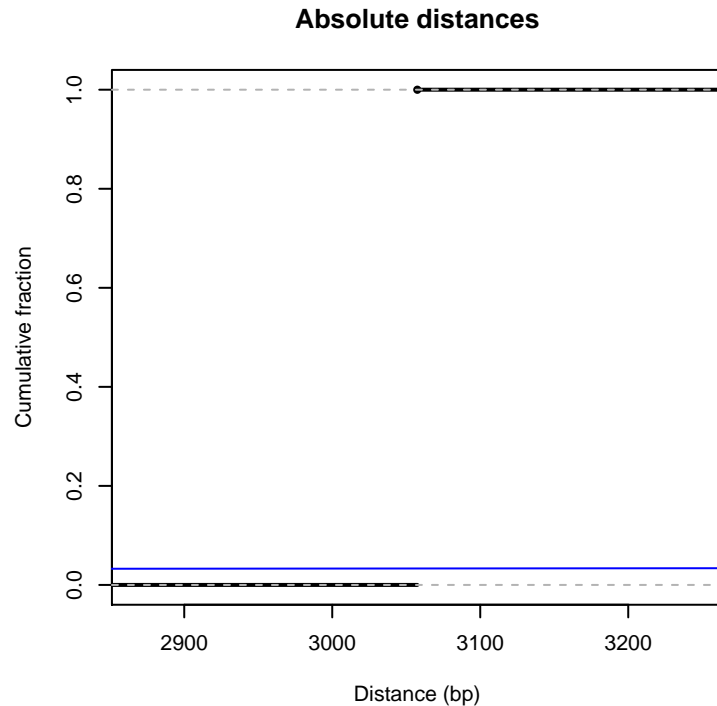
pcontig_112

Query population : 1
Reference population : 98
Relative Ks p-value : 0.365383
Relative ecdf deviation area : 0.175542
Relative ecdf area correlation : 0.634617
Relative ecdf deviation area p-value : 0.37
Scaled Absolute min. distance p-value : 0.02
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0249034
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



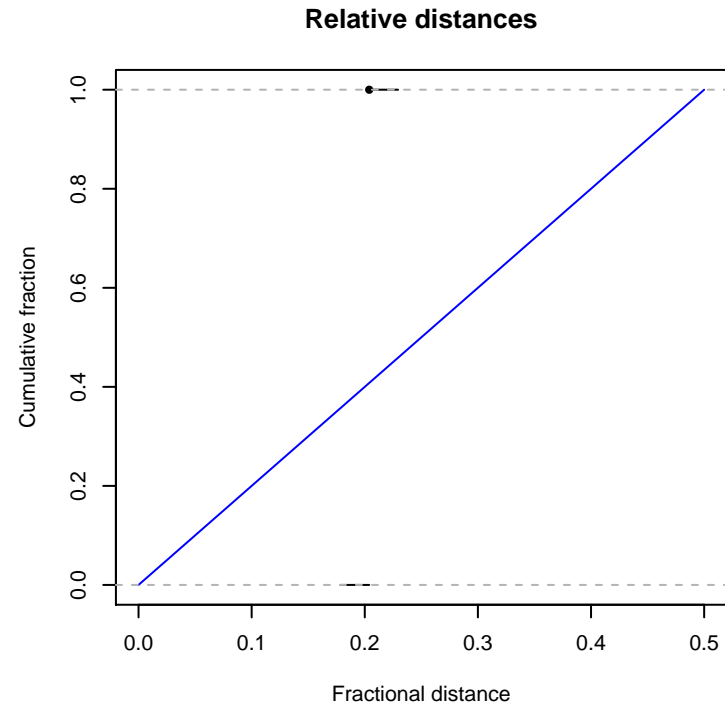
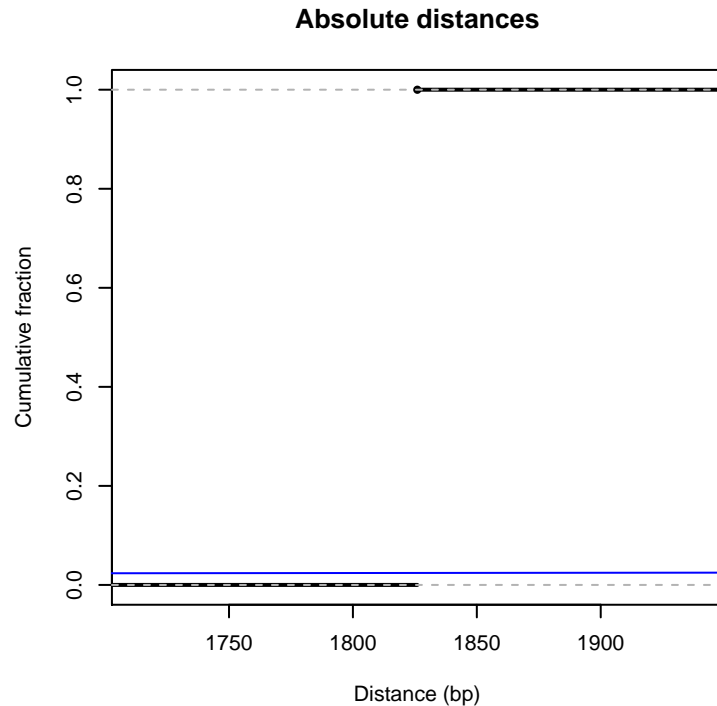
pcontig_115

Query population : 1
Reference population : 100
Relative Ks p-value : 0.856796
Relative ecdf deviation area : 0.127252
Relative ecdf area correlation : -0.143204
Relative ecdf deviation area p-value : 0.92
Scaled Absolute min. distance p-value : 0.04
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0184065
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



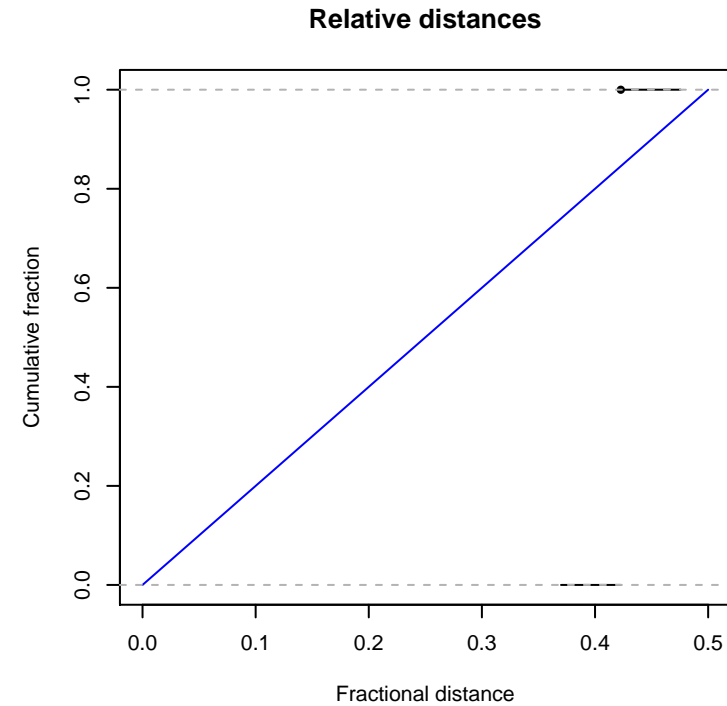
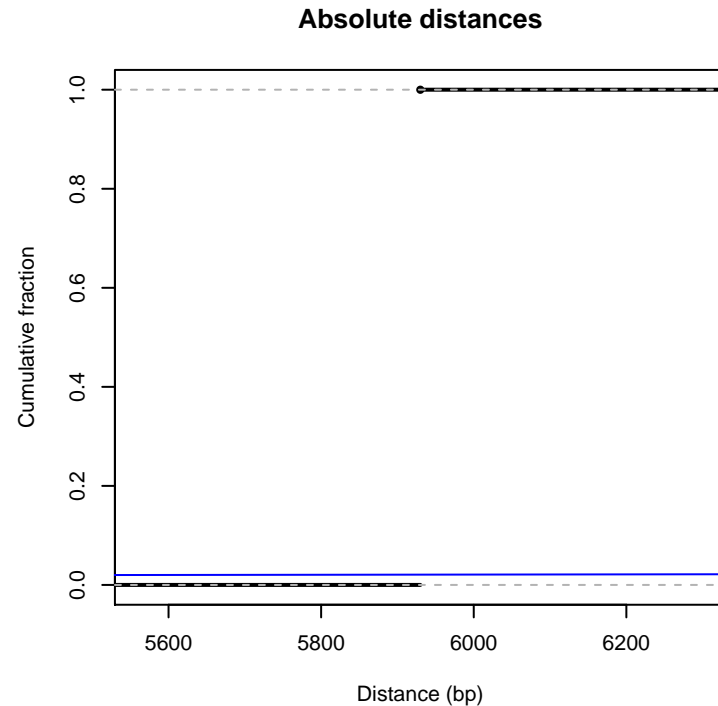
pcontig_120

Query population : 1
Reference population : 64
Relative Ks p-value : 0.815679
Relative ecdf deviation area : 0.129391
Relative ecdf area correlation : 0.184321
Relative ecdf deviation area p-value : 0.84
Scaled Absolute min. distance p-value : 0.03
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0170879
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



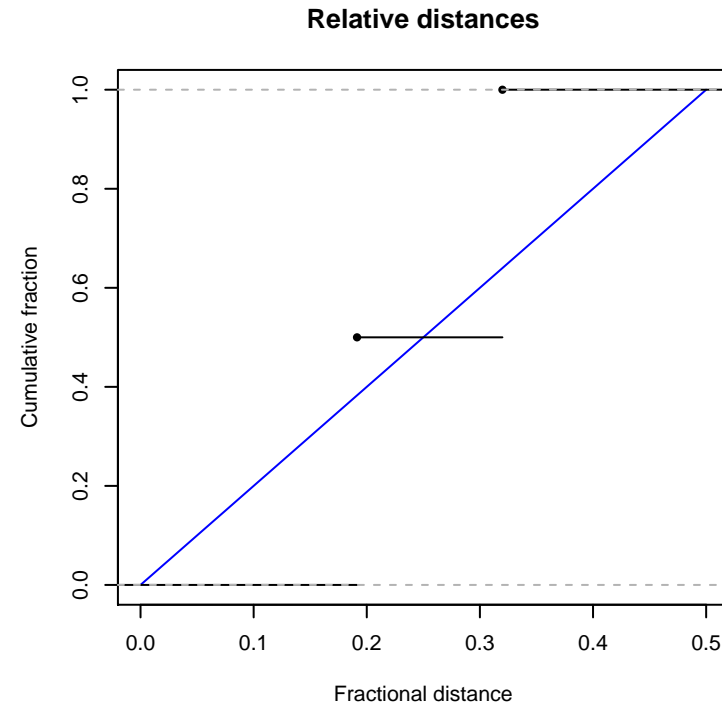
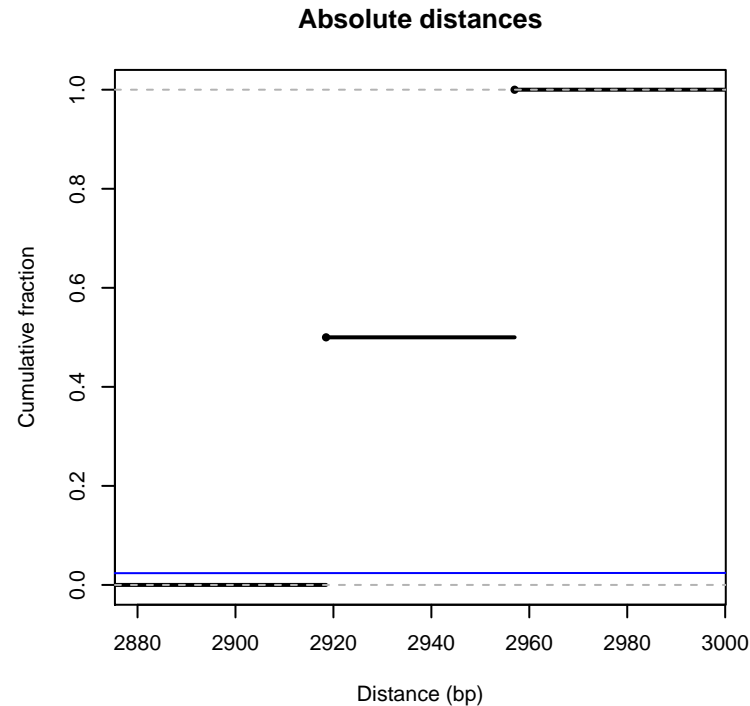
pcontig_129

Query population : 1
Reference population : 34
Relative Ks p-value : 0.308855
Relative ecdf deviation area : 0.184615
Relative ecdf area correlation : -0.691145
Relative ecdf deviation area p-value : 0.34
Scaled Absolute min. distance p-value : 0.03
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00965545
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



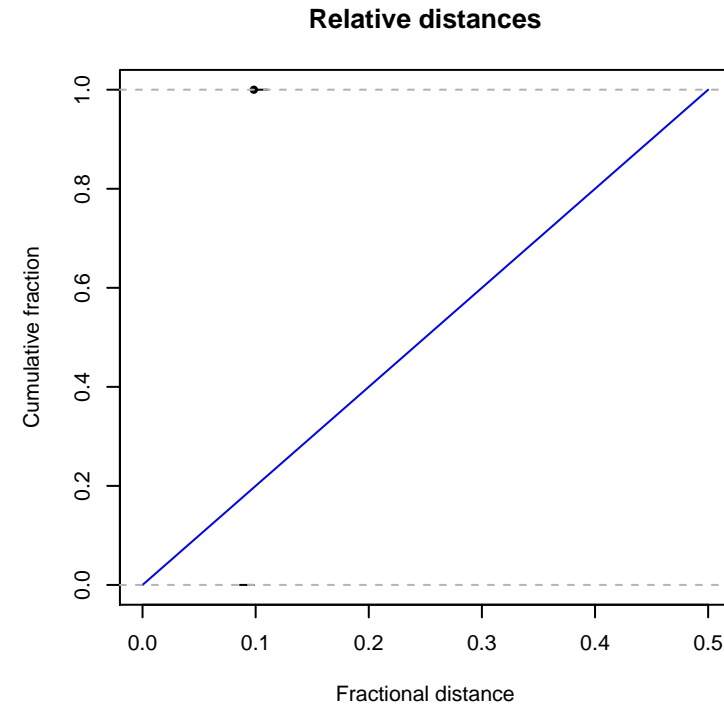
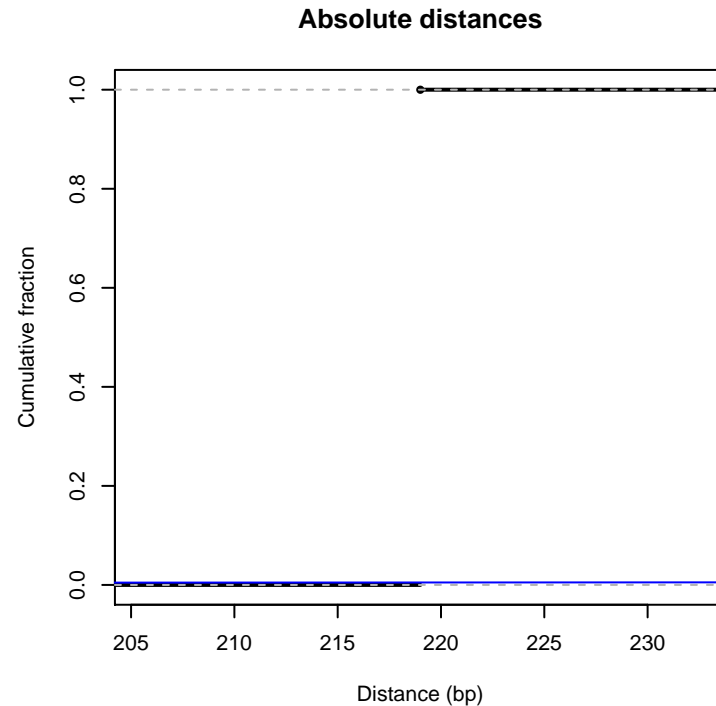
pcontig_130

Query population : 2
Reference population : 36
Relative Ks p-value : 0.858975
Relative ecdf deviation area : 0.0769674
Relative ecdf area correlation : -0.0225822
Relative ecdf deviation area p-value : 0.83
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000492756
Projection test lower tail : FALSE
Projection test observed to expected ratio : 22.5244



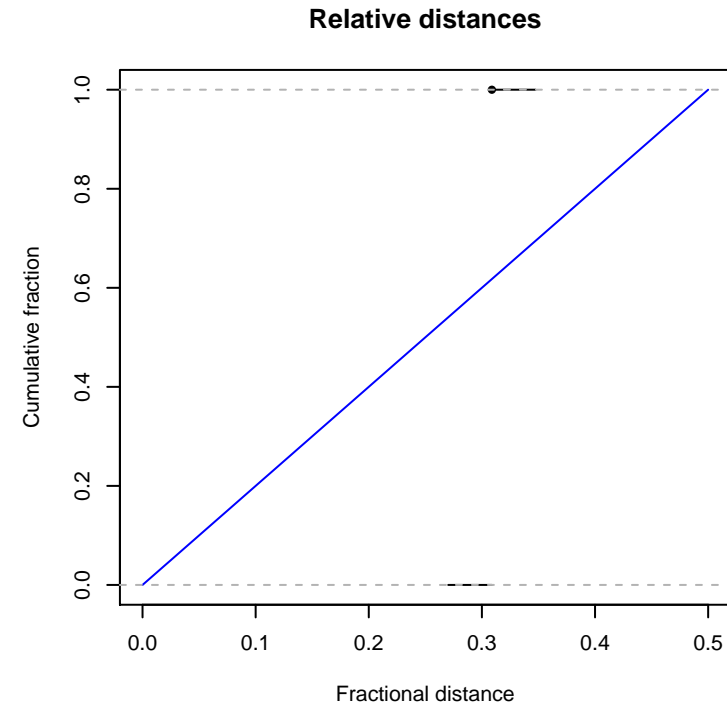
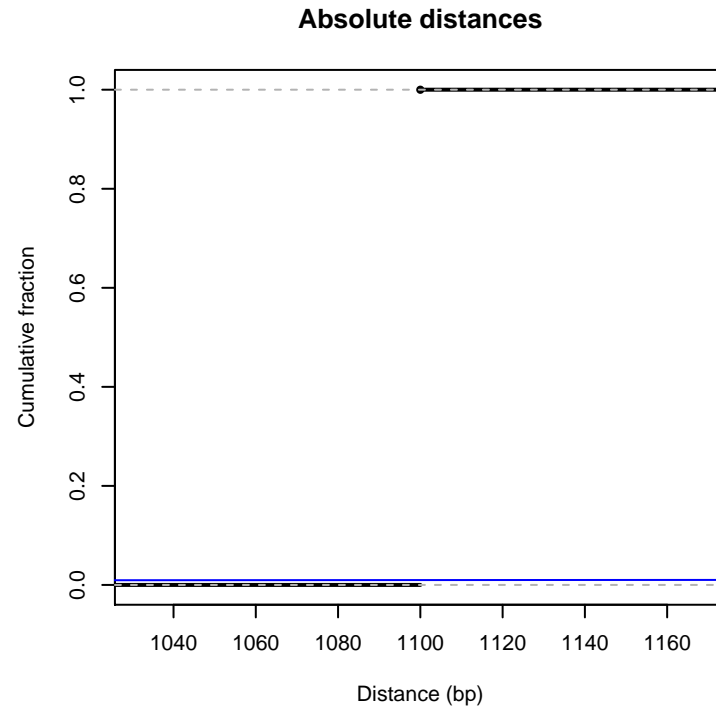
pcontig_138

Query population : 1
Reference population : 48
Relative Ks p-value : 0.393796
Relative ecdf deviation area : 0.171253
Relative ecdf area correlation : 0.606204
Relative ecdf deviation area p-value : 0.36
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 101.828



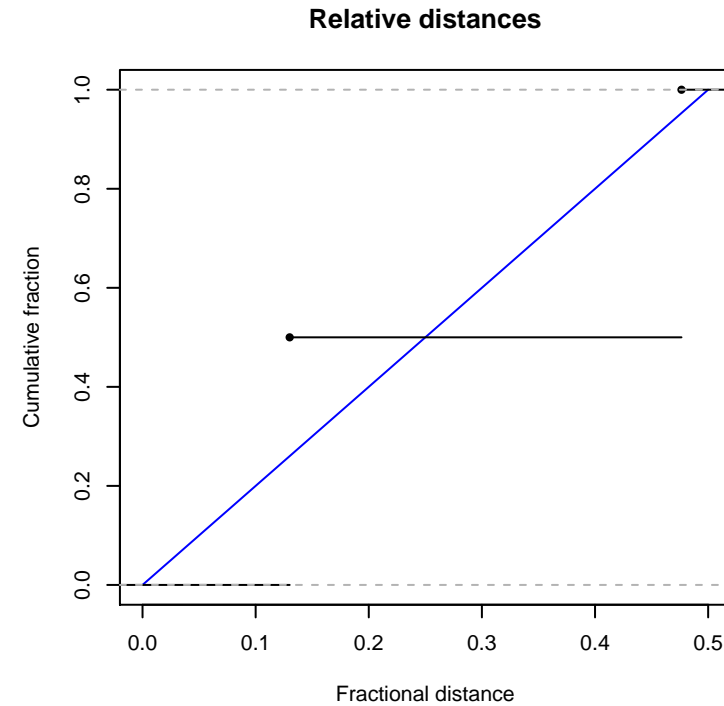
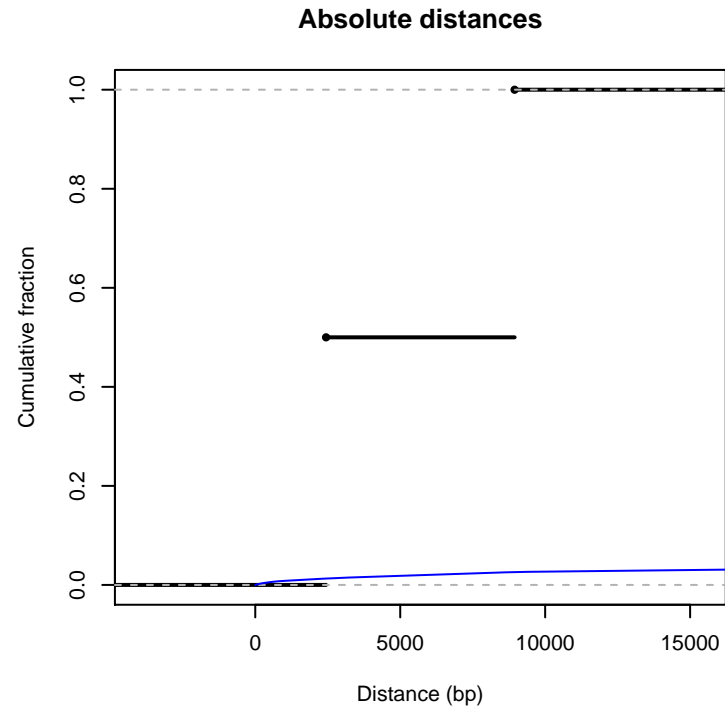
pcontig_147

Query population : 1
Reference population : 30
Relative Ks p-value : 0.764739
Relative ecdf deviation area : 0.132057
Relative ecdf area correlation : -0.235261
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
Projection test lower tail : FALSE
Projection test observed to expected ratio : 133.325



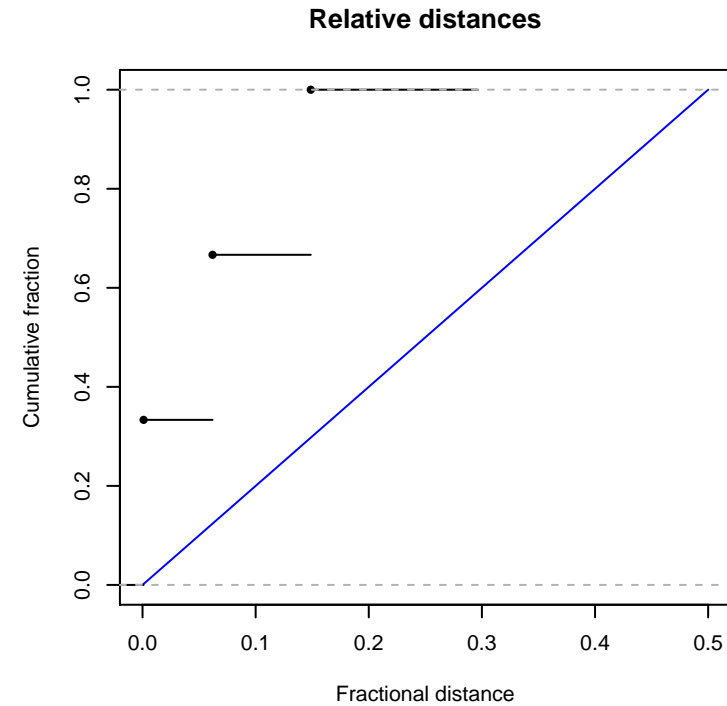
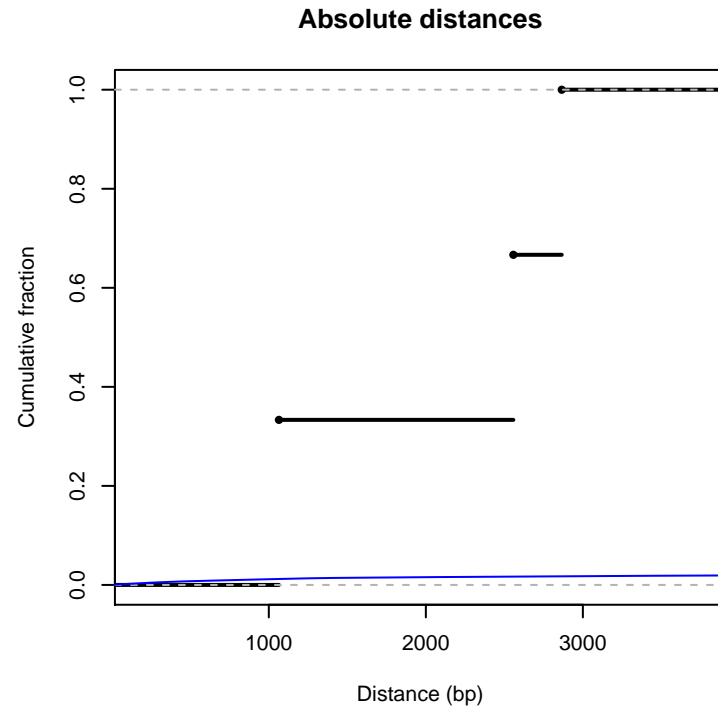
pcontig_148

Query population : 2
Reference population : 32
Relative Ks p-value : 0.670757
Relative ecdf deviation area : 0.0831875
Relative ecdf area correlation : -0.213027
Relative ecdf deviation area p-value : 0.66
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0195715
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



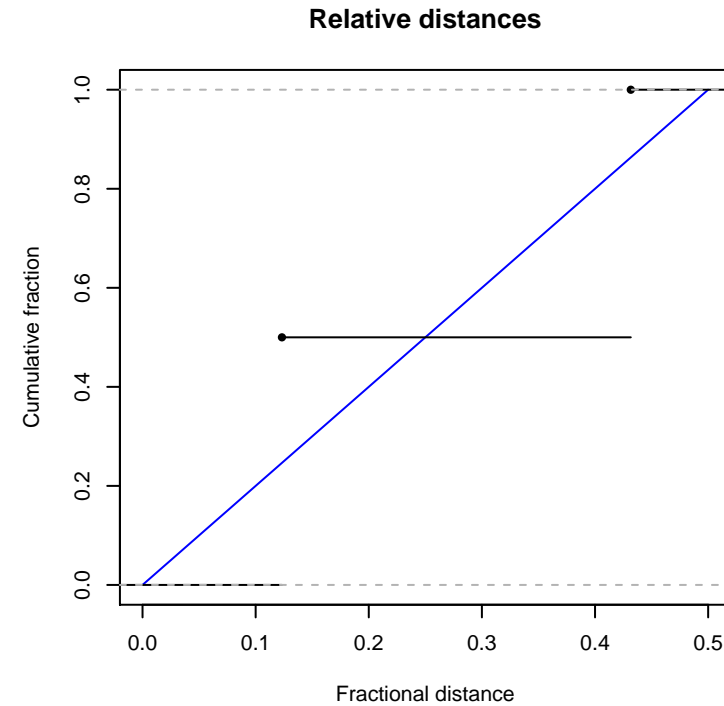
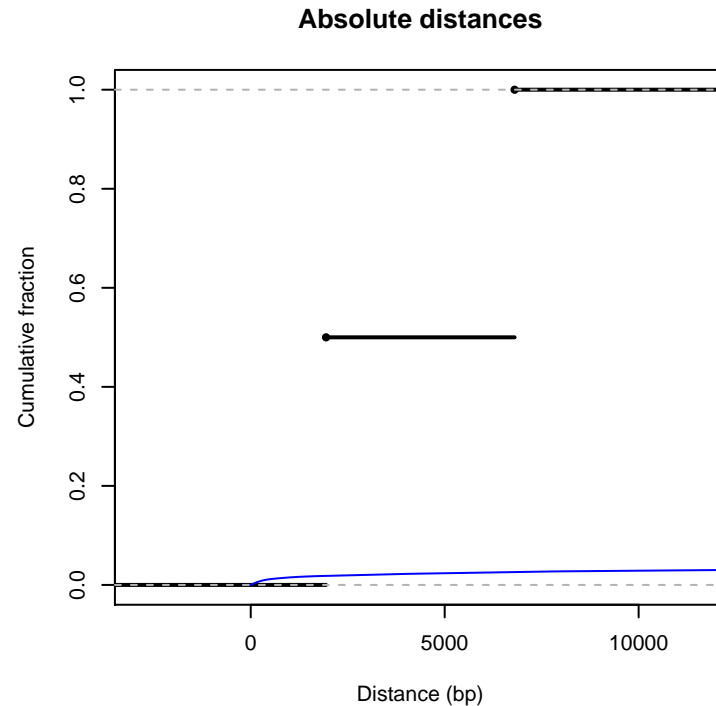
pcontig_149

Query population : 3
Reference population : 42
Relative Ks p-value : 0.0526224
Relative ecdf deviation area : 0.179352
Relative ecdf area correlation : 0.717916
Relative ecdf deviation 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 : 0.033348
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



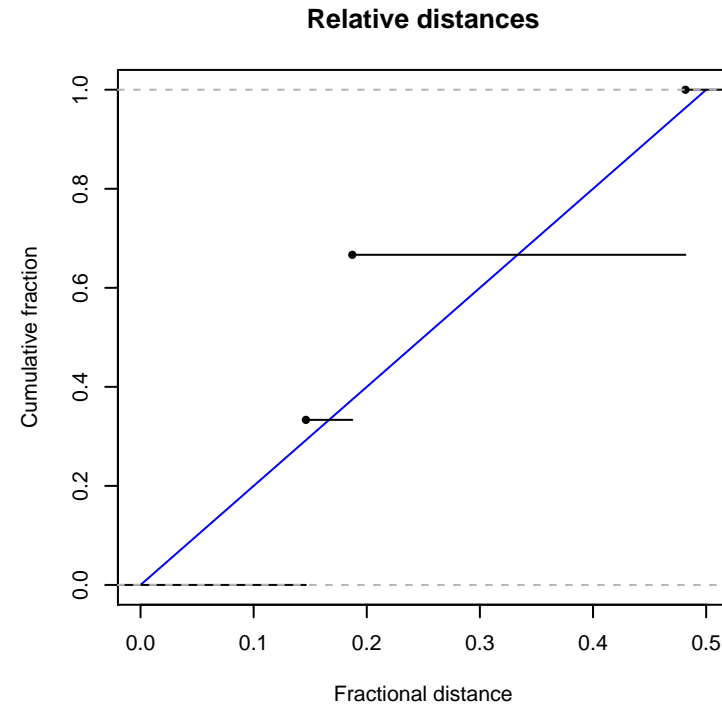
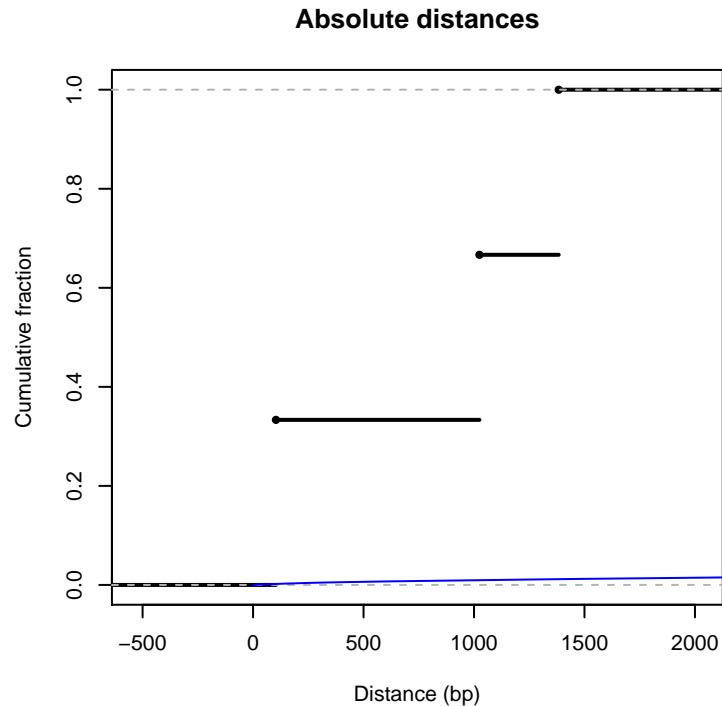
pcontig_150

Query population : 2
Reference population : 66
Relative Ks p-value : 0.897409
Relative ecdf deviation area : 0.0690248
Relative ecdf area correlation : -0.109729
Relative ecdf deviation area p-value : 0.97
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0267967
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



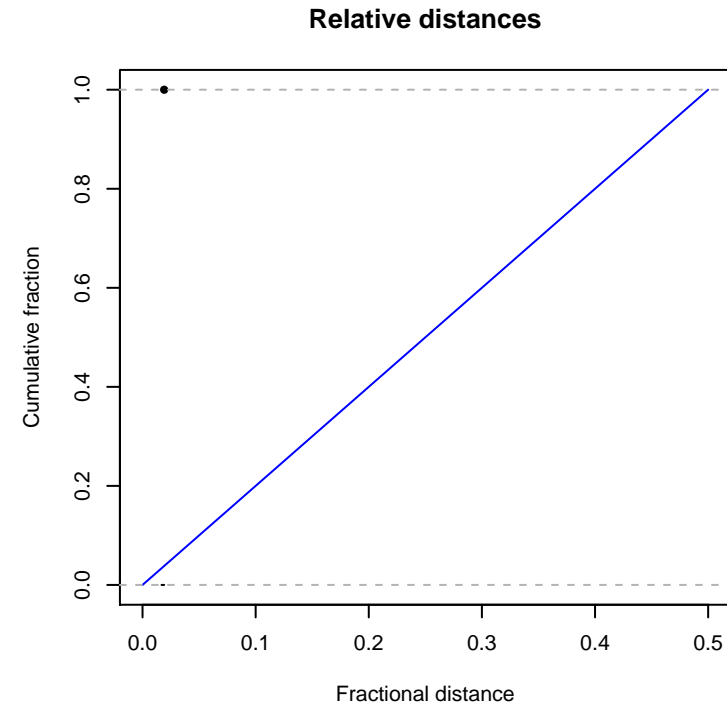
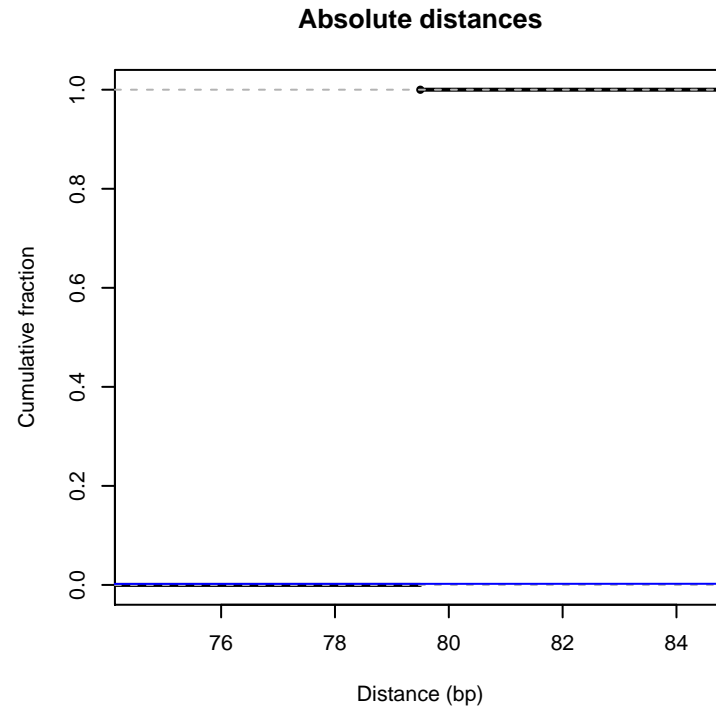
pcontig_157

Query population : 3
Reference population : 33
Relative Ks p-value : 0.894284
Relative ecdf deviation area : 0.0657139
Relative ecdf area correlation : -0.0868204
Relative ecdf deviation area p-value : 0.76
Scaled Absolute min. distance p-value : <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 : 66.3115



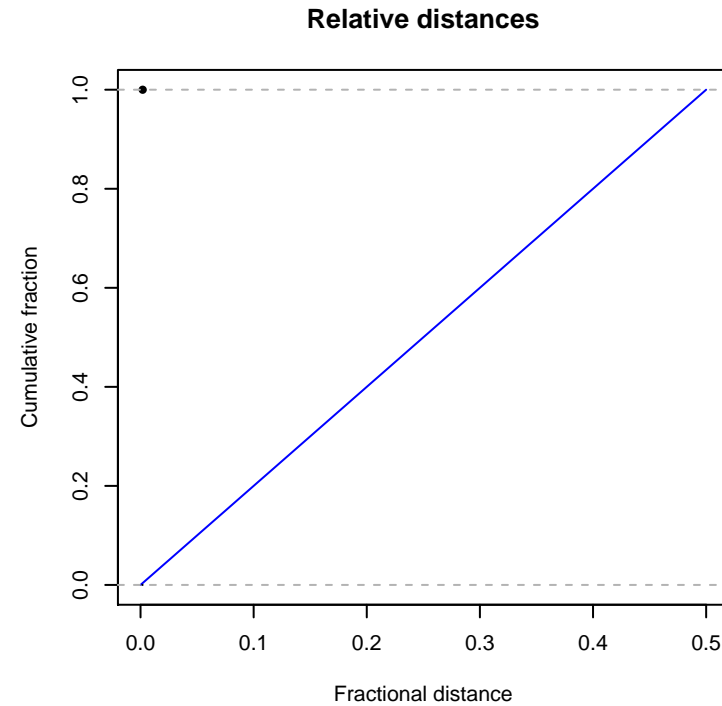
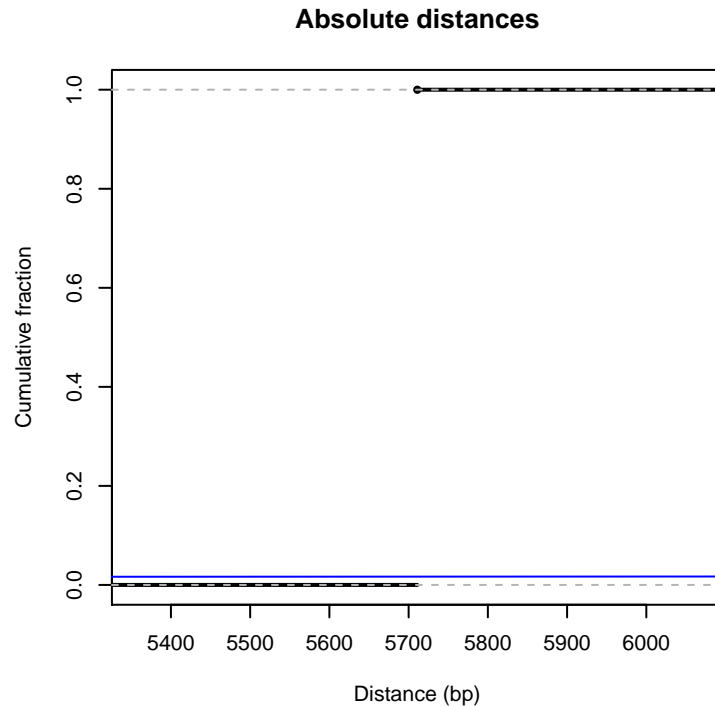
pcontig_165

Query population : 1
Reference population : 51
Relative Ks p-value : 0.0765804
Relative ecdf deviation area : 0.231231
Relative ecdf area correlation : 0.92342
Relative ecdf deviation area p-value : 0.05
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 91.8482



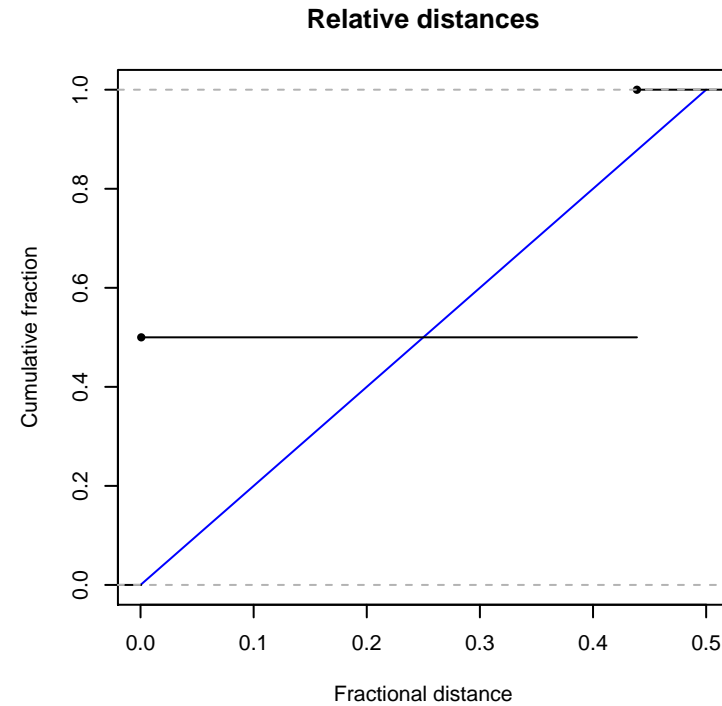
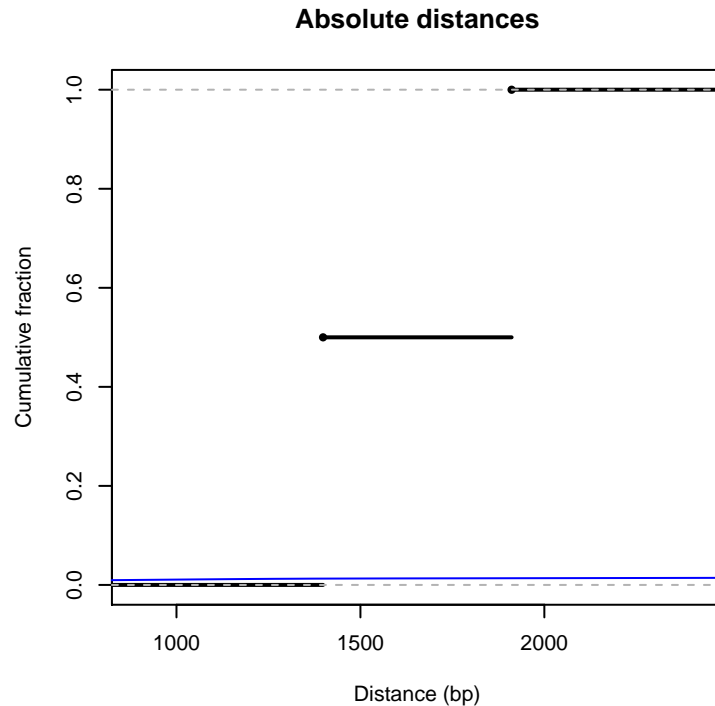
pcontig_170

Query population : 1
Reference population : 25
Relative Ks p-value : 0.00753224
Relative ecdf deviation area : 0.248621
Relative ecdf area correlation : 0.992468
Relative ecdf deviation 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 : 0.0106591
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



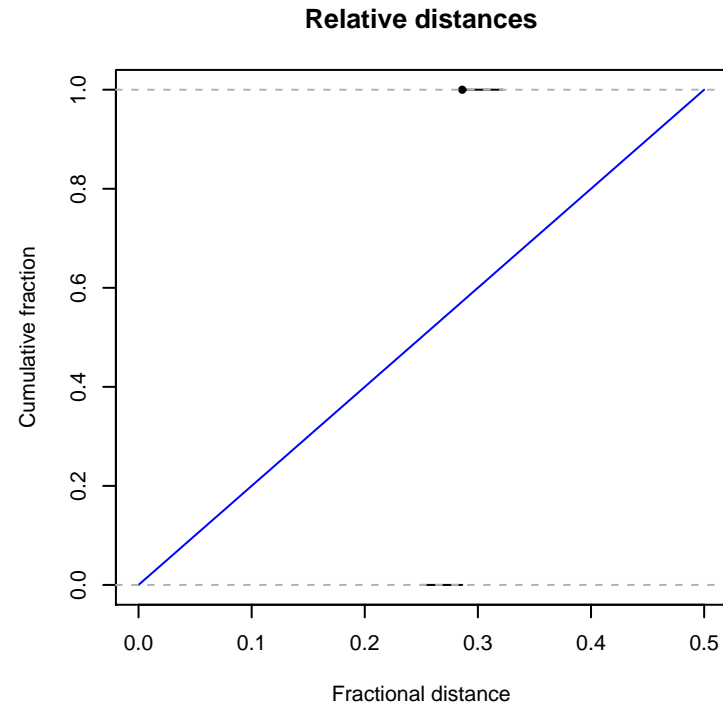
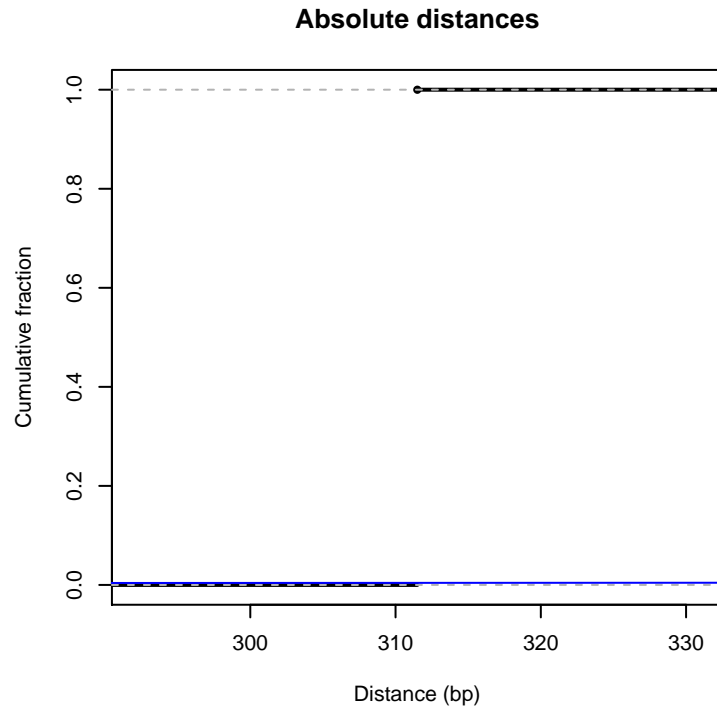
pcontig_173

Query population : 2
Reference population : 45
Relative Ks p-value : 0.50503
Relative ecdf deviation area : 0.101729
Relative ecdf area correlation : 0.121112
Relative ecdf deviation area p-value : 0.54
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 : 0.0221052
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_174

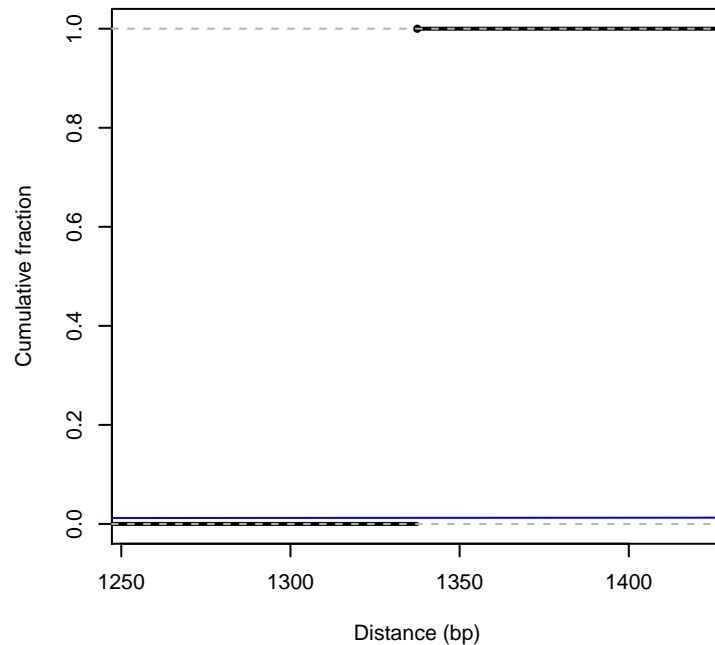
Query population : 1
Reference population : 34
Relative Ks p-value : 0.855305
Relative ecdf deviation area : 0.127915
Relative ecdf area correlation : -0.144695
Relative ecdf deviation area p-value : 0.85
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 148.656



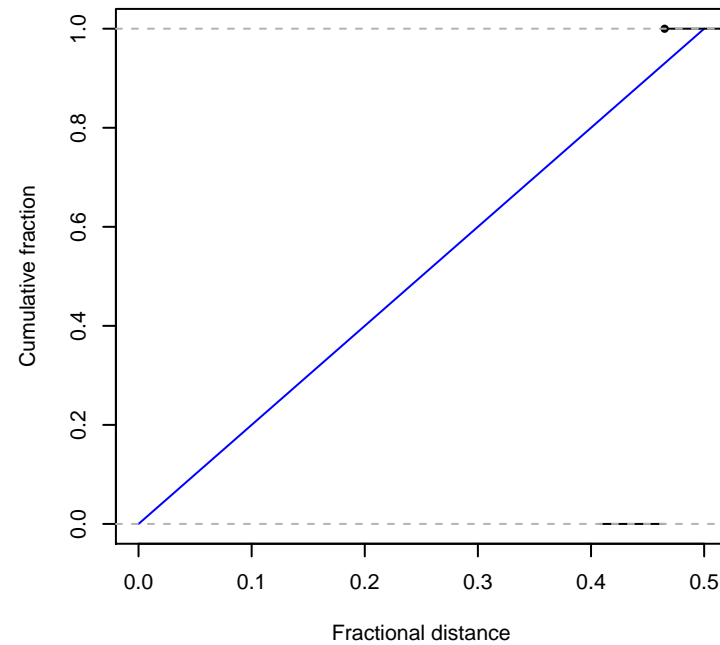
pcontig_181

Query population : 1
Reference population : 33
Relative Ks p-value : 0.139777
Relative ecdf deviation area : 0.217085
Relative ecdf area correlation : -0.860223
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 : 0.012077
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

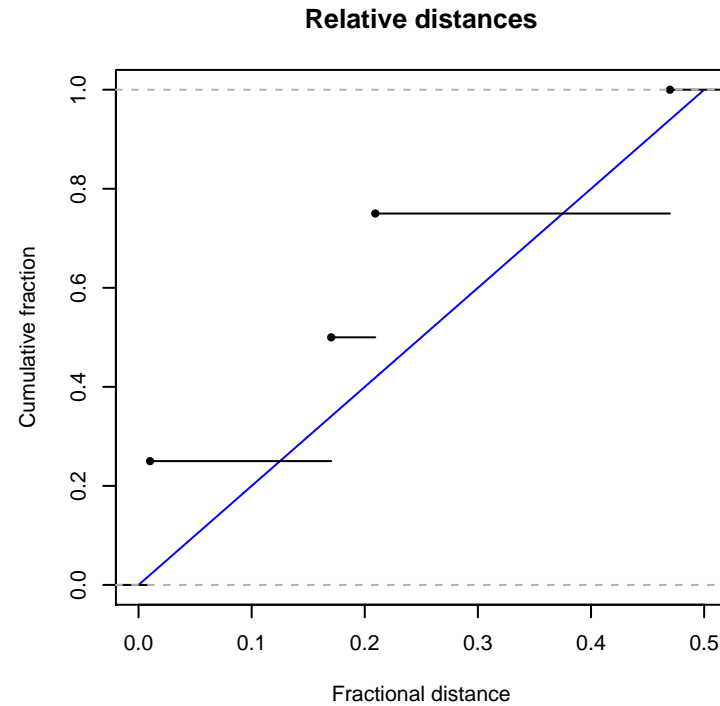
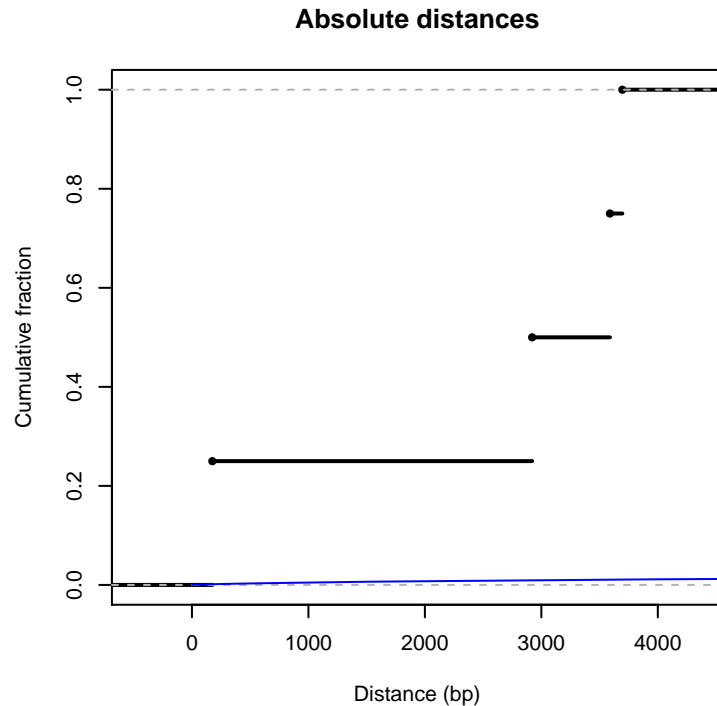


Relative distances



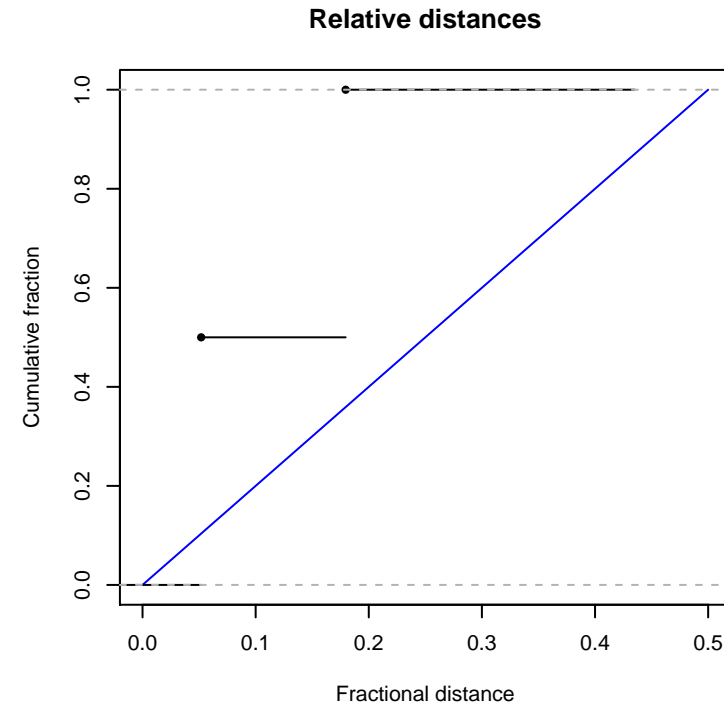
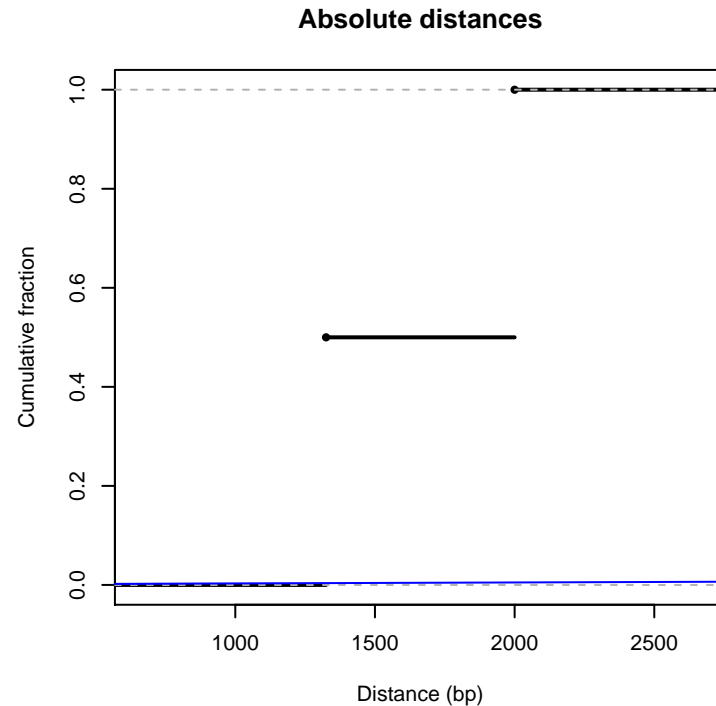
pcontig_186

Query population : 4
Reference population : 17
Relative Ks p-value : 0.668467
Relative ecdf deviation area : 0.057026
Relative ecdf area correlation : 0.140464
Relative ecdf deviation area p-value : 0.8
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 8.60408e-05
Projection test lower tail : FALSE
Projection test observed to expected ratio : 65.8511



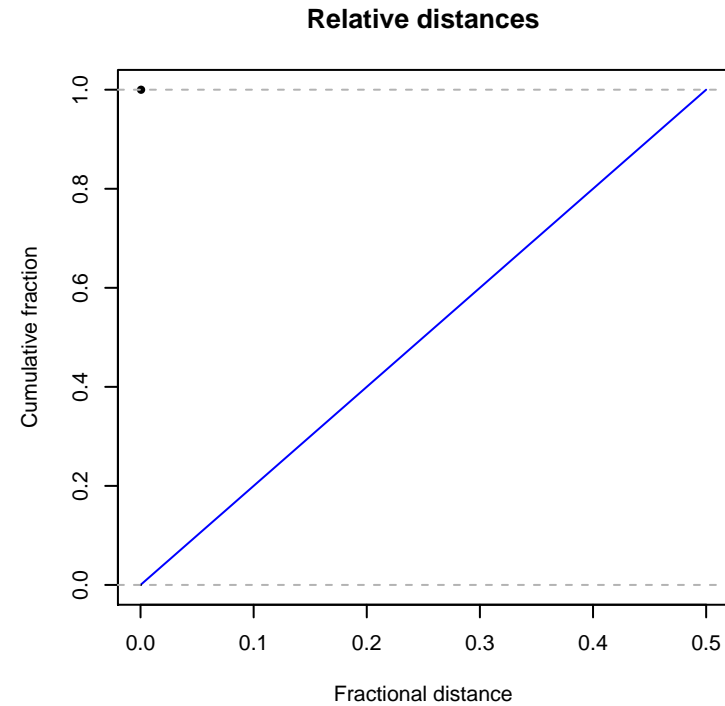
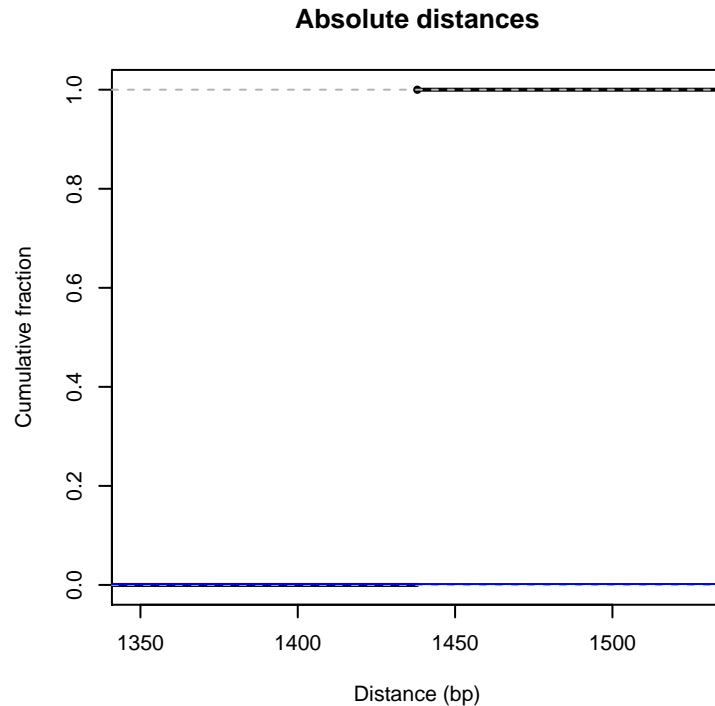
pcontig_188

Query population : 2
Reference population : 9
Relative Ks p-value : 0.257927
Relative ecdf deviation area : 0.139395
Relative ecdf area correlation : 0.537204
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 : 0.00351089
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



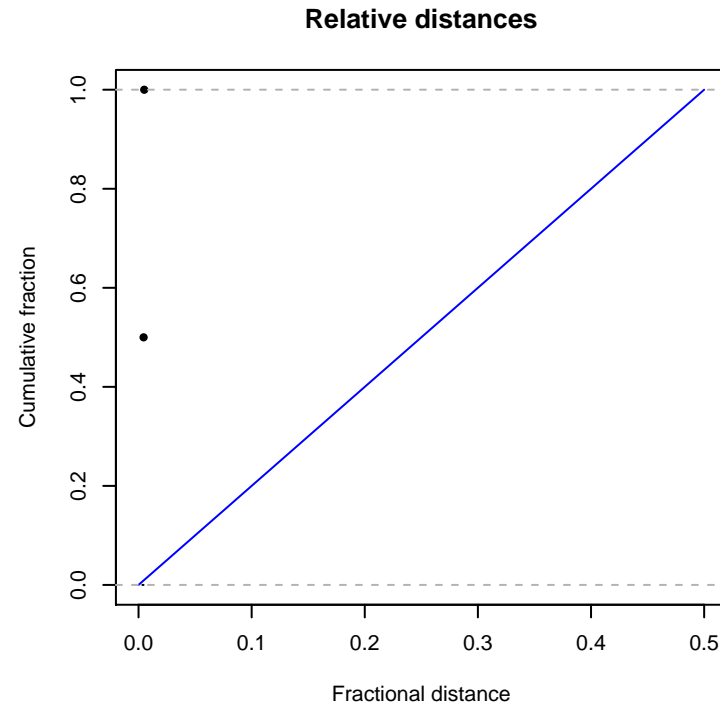
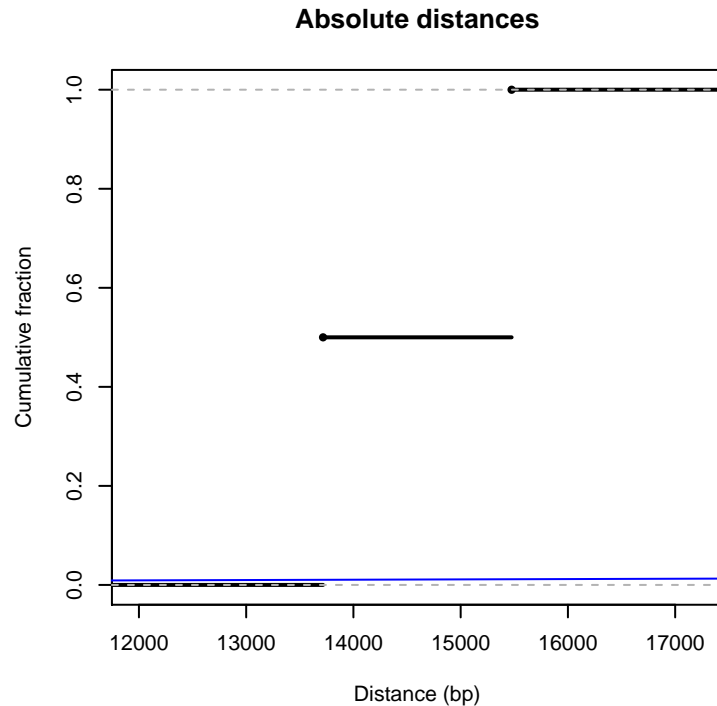
pcontig_189

Query population : 1
Reference population : 2
Relative Ks p-value : 0.0018735
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.998127
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000279217
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



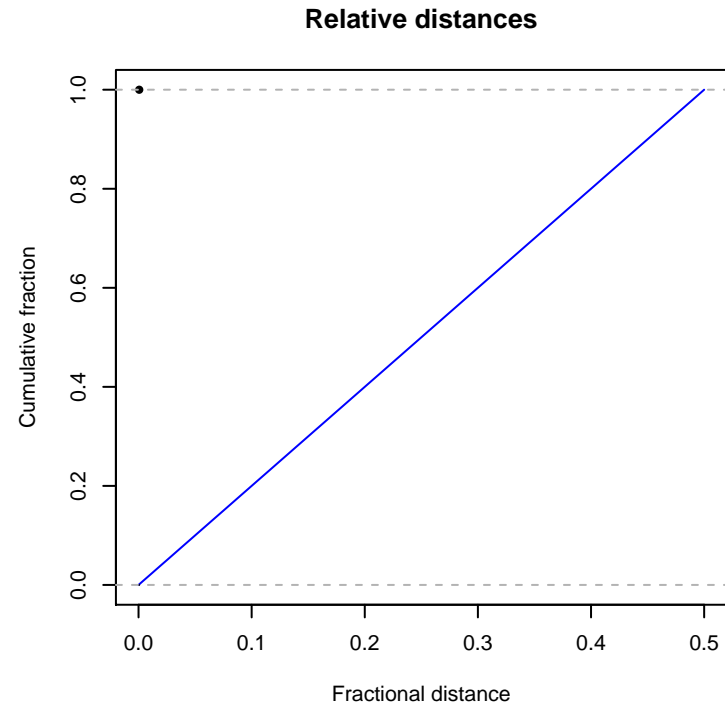
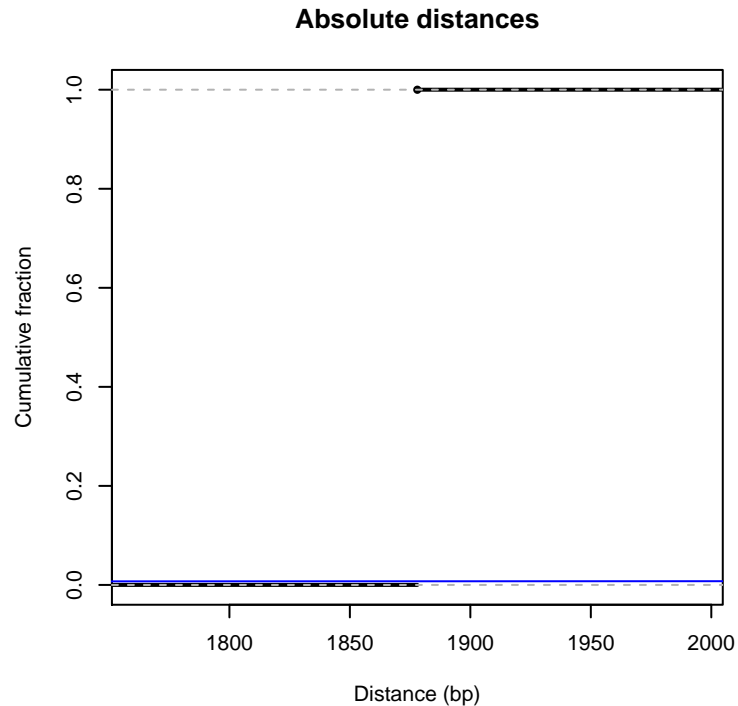
pcontig_203

Query population : 2
Reference population : 2
Relative Ks p-value : 0.000203477
Relative ecdf deviation area : 0.244619
Relative ecdf area correlation : 0.980973
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00170192
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



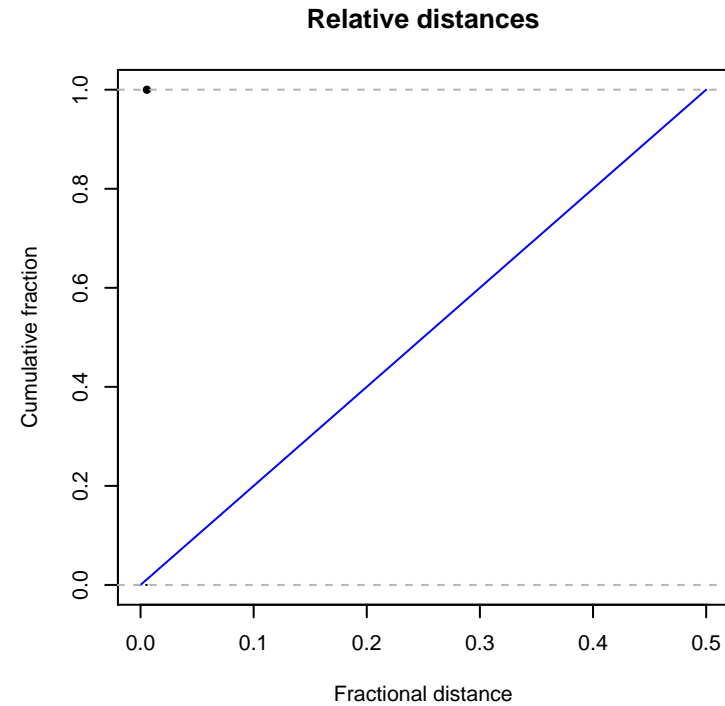
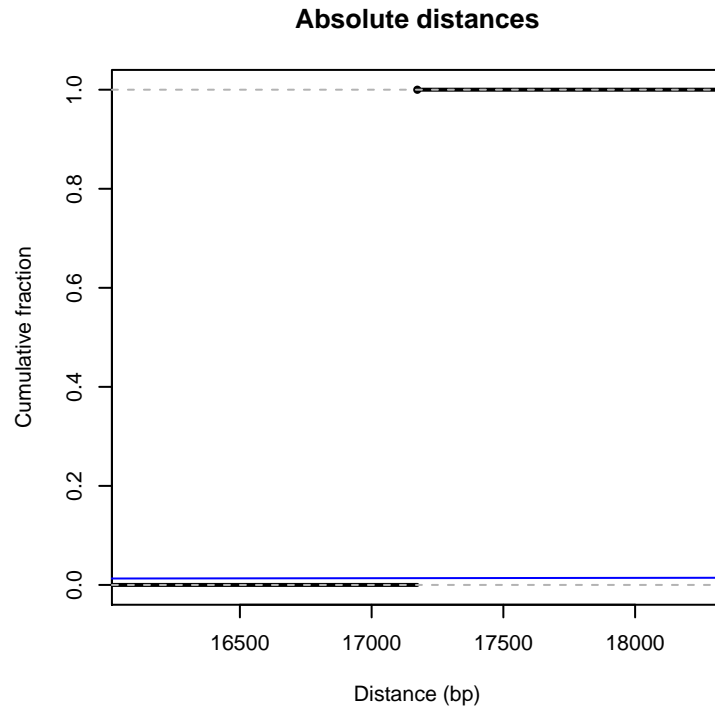
pcontig_207

Query population : 1
Reference population : 32
Relative Ks p-value : 0.00246845
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.997532
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00412871
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



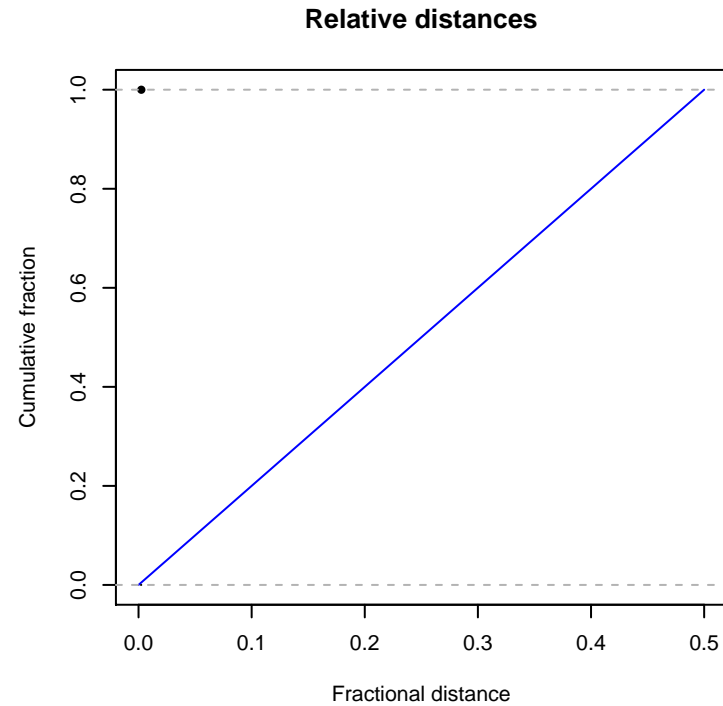
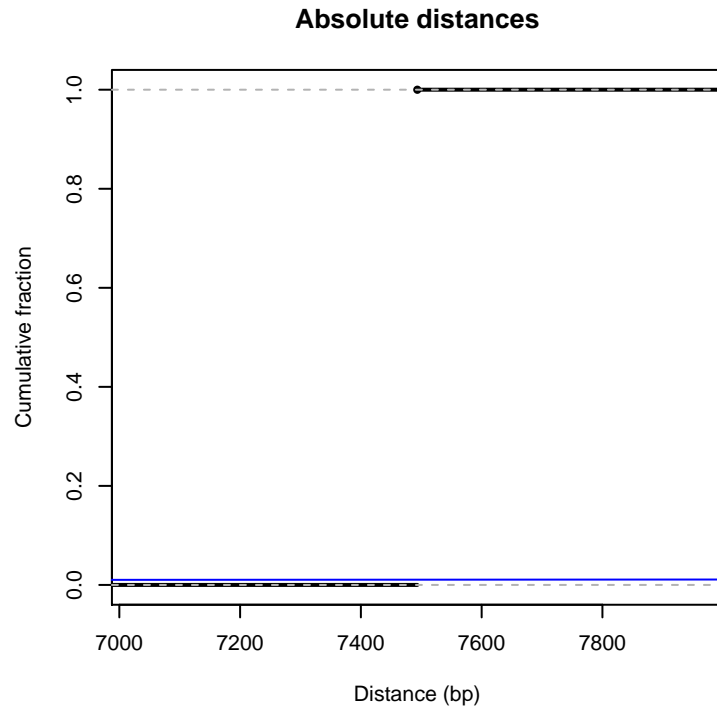
pcontig_233

Query population : 1
Reference population : 7
Relative Ks p-value : 0.022412
Relative ecdf deviation area : 0.244619
Relative ecdf area correlation : 0.977588
Relative ecdf deviation area p-value : 0.05
Scaled Absolute min. distance p-value : 0.03
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00359305
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_235

Query population : 1
Reference population : 24
Relative Ks p-value : 0.00981026
Relative ecdf deviation area : 0.246924
Relative ecdf area correlation : 0.99019
Relative ecdf deviation 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 : 0.00474539
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



All Chromosomes

Query population : 1572
Reference population : 47997
Relative Ks p-value : 0.0708007
Relative ecdf deviation area : 0.00791692
Relative ecdf area correlation : -0.0250521
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 : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0
Projection test lower tail : FALSE
Projection test observed to expected ratio : 1.8511

