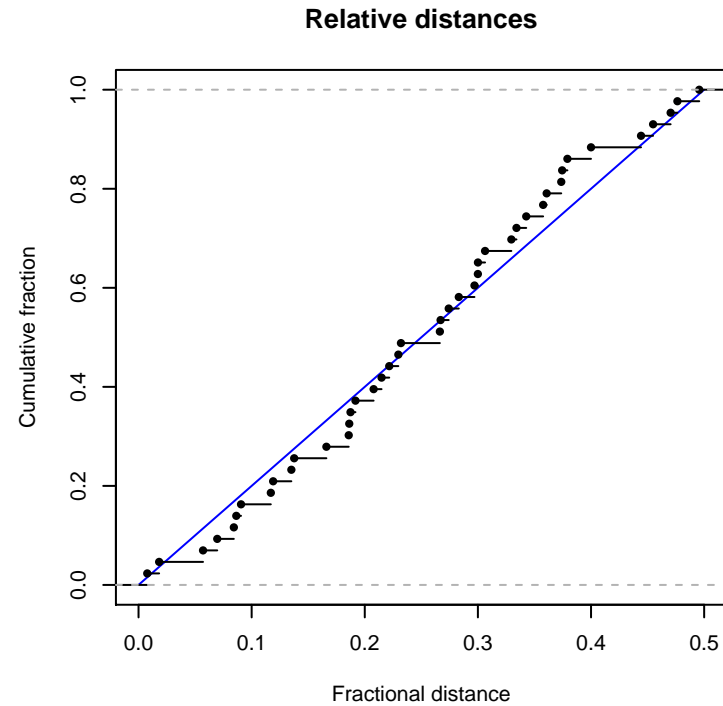
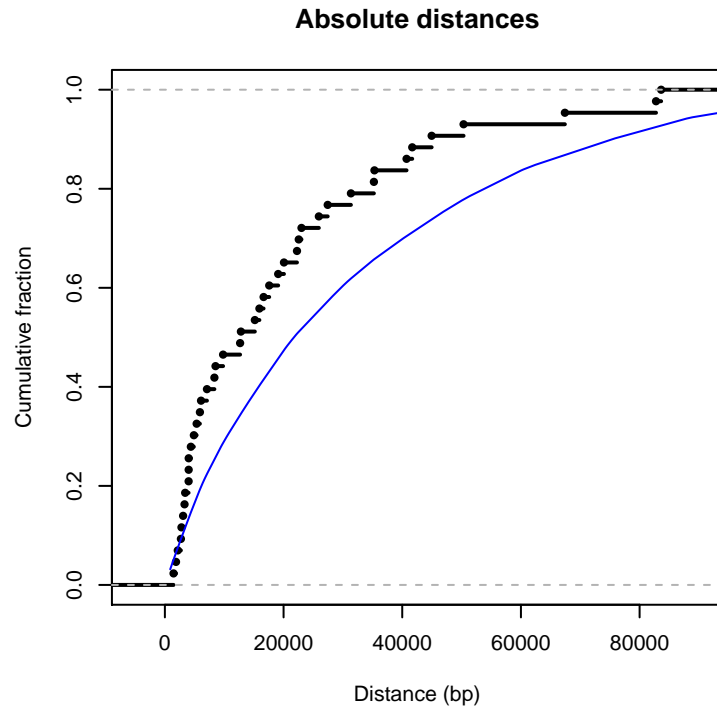


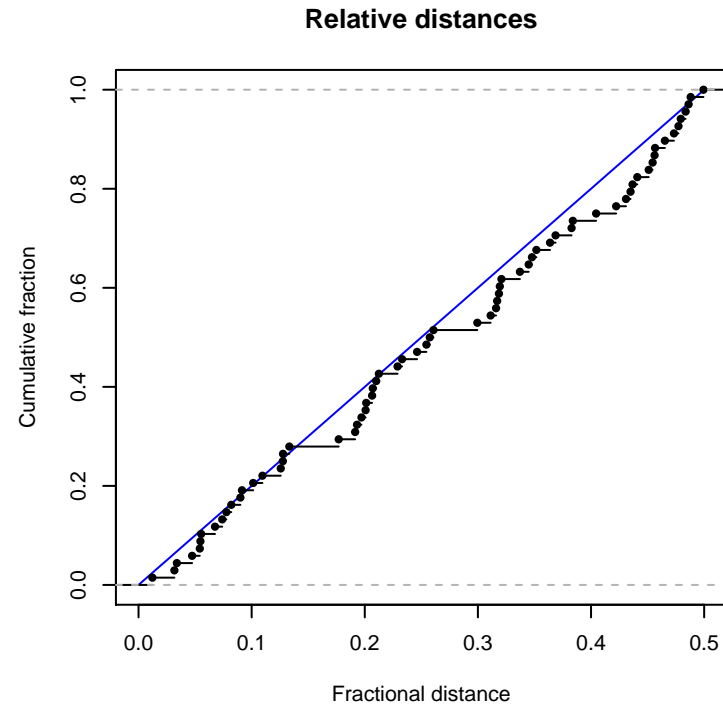
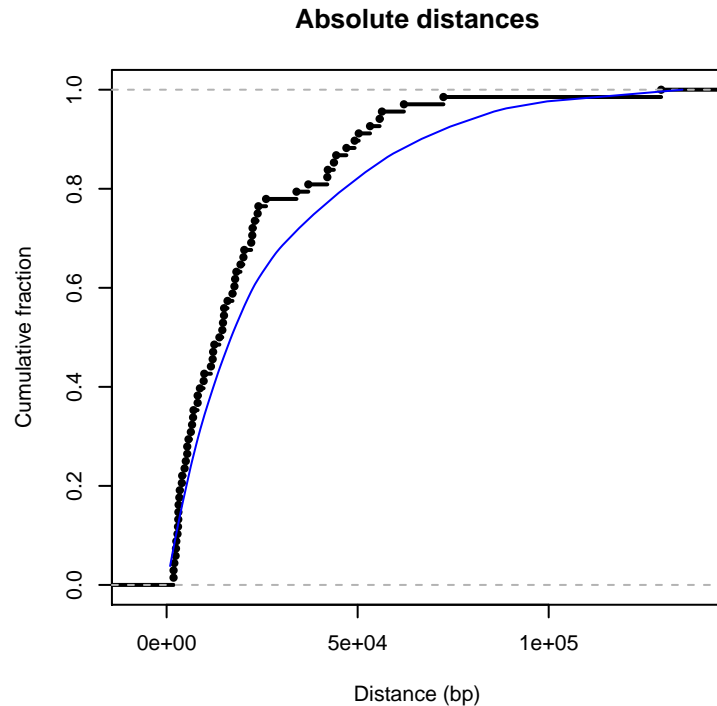
pcontig_000

Query population : 43
Reference population : 53
Relative Ks p-value : 0.721531
Relative ecdf deviation area : 0.0171865
Relative ecdf area correlation : -0.00774837
Relative ecdf deviation area p-value : 0.7
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.07
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.191496
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



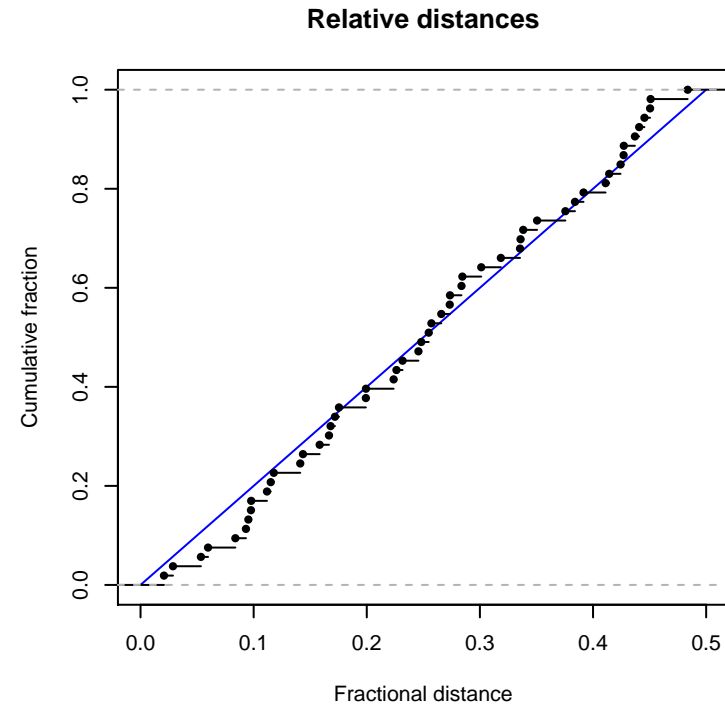
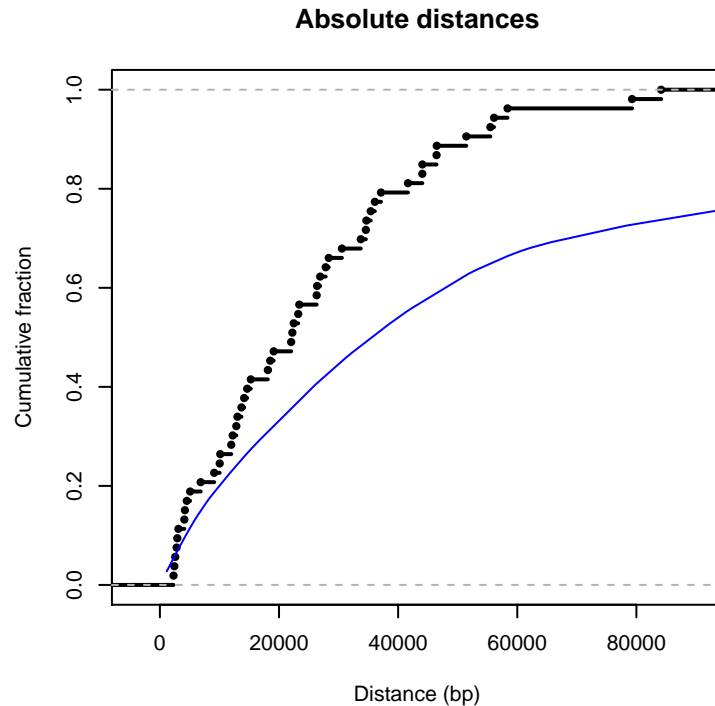
pcontig_001

Query population : 68
Reference population : 63
Relative Ks p-value : 0.511685
Relative ecdf deviation area : 0.0191922
Relative ecdf area correlation : -0.076421
Relative ecdf deviation area p-value : 0.43
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 : 0.0501619
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



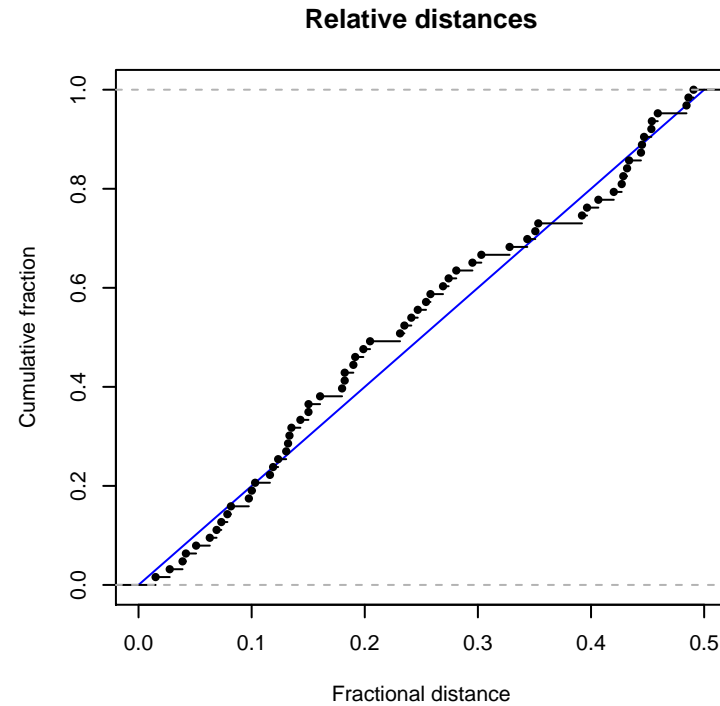
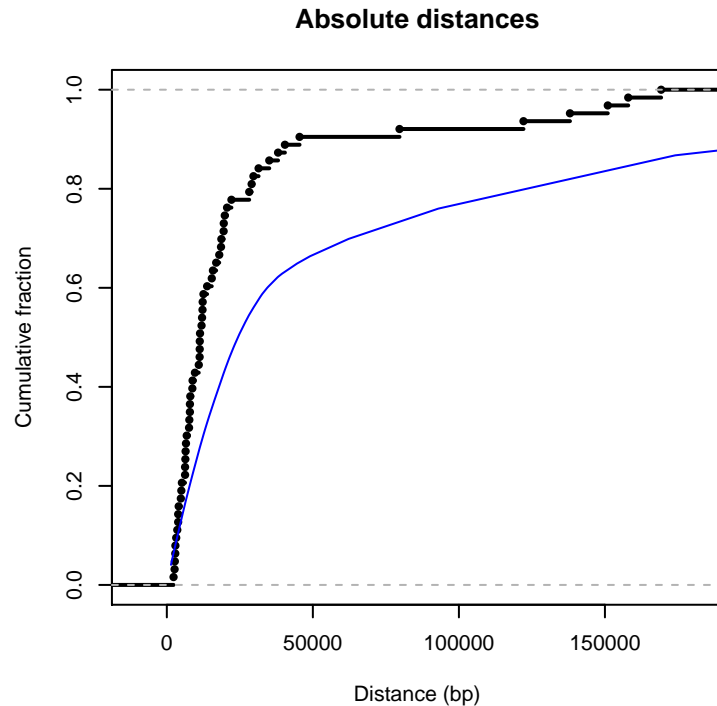
pcontig_002

Query population : 53
Reference population : 36
Relative Ks p-value : 0.723921
Relative ecdf deviation area : 0.0150245
Relative ecdf area correlation : -0.0196343
Relative ecdf deviation area p-value : 0.7
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.100336
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



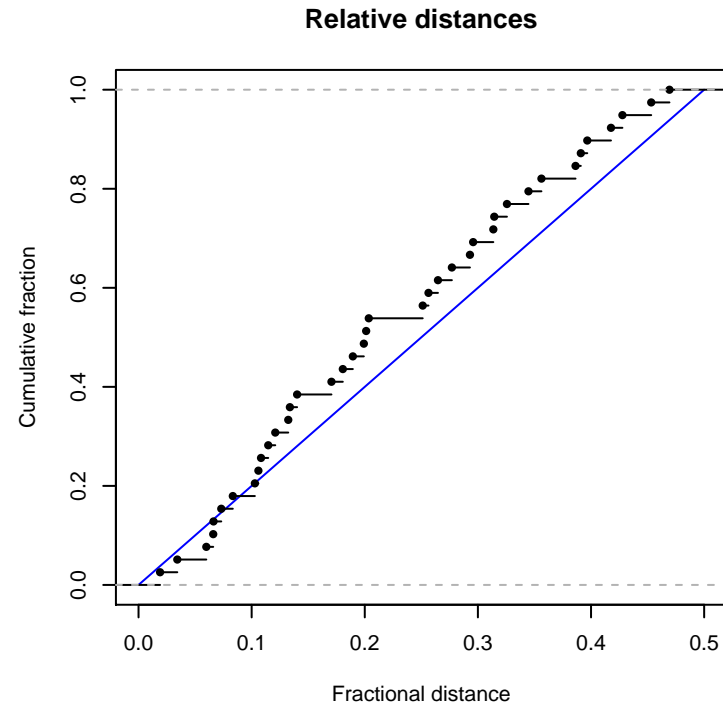
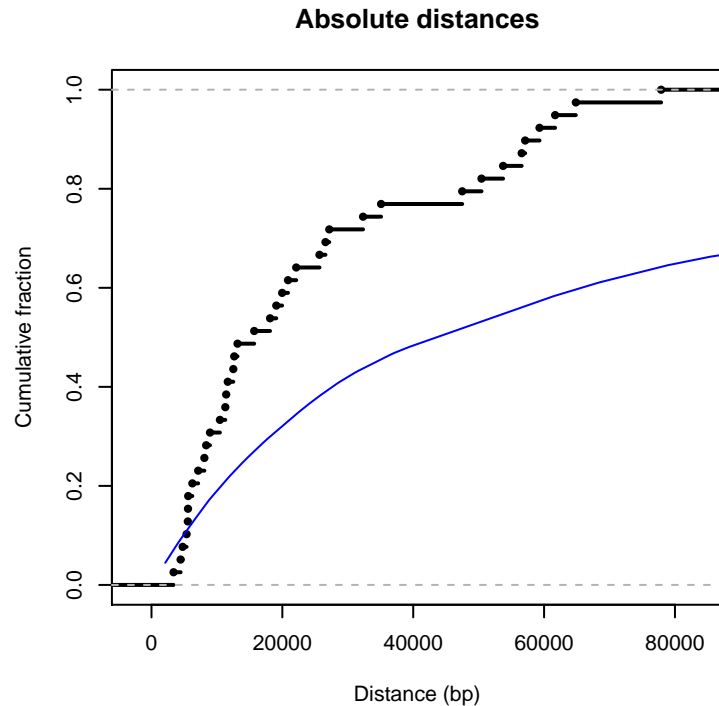
pcontig_003

Query population : 63
Reference population : 43
Relative Ks p-value : 0.750801
Relative ecdf deviation area : 0.0164456
Relative ecdf area correlation : 0.0204411
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 : 0.05
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.110531
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



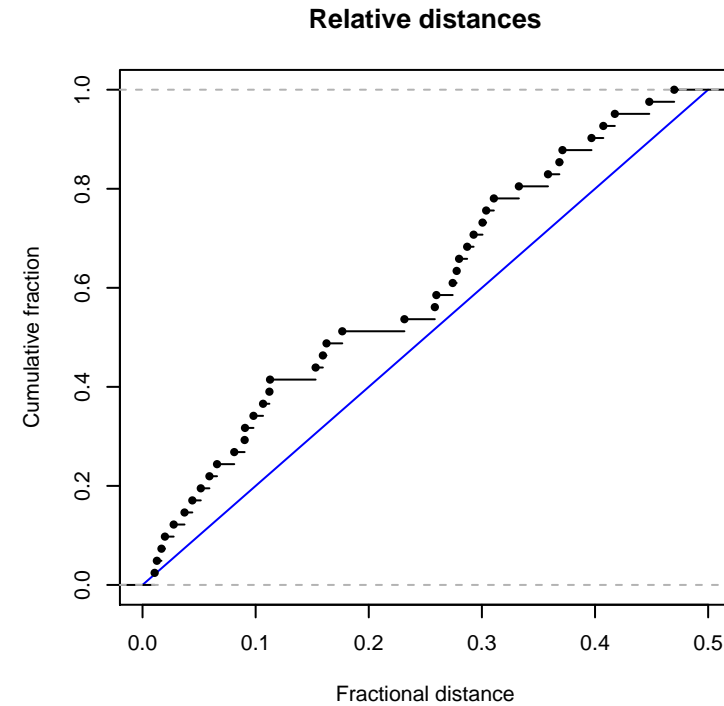
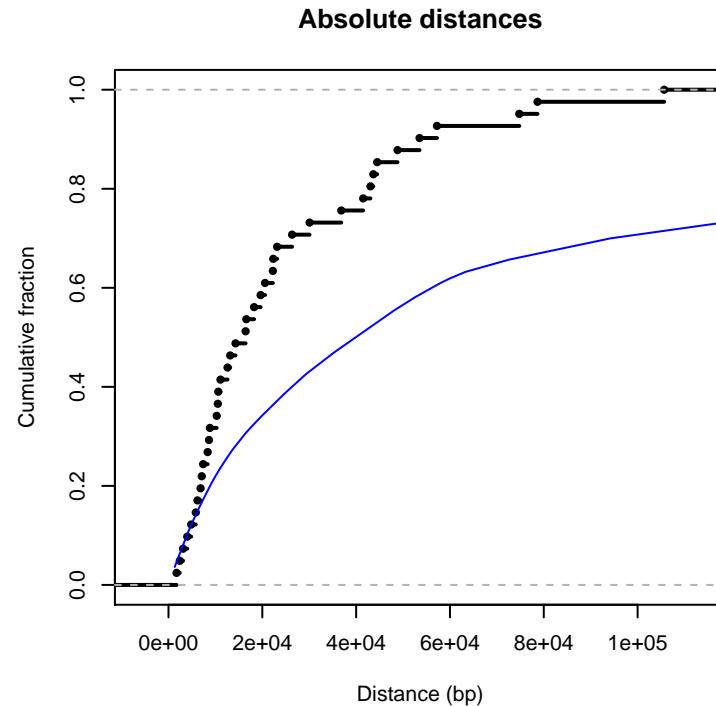
pcontig_004

Query population : 39
Reference population : 32
Relative Ks p-value : 0.471539
Relative ecdf deviation area : 0.0308832
Relative ecdf area correlation : 0.103577
Relative ecdf deviation area p-value : 0.27
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.19
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.357182
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



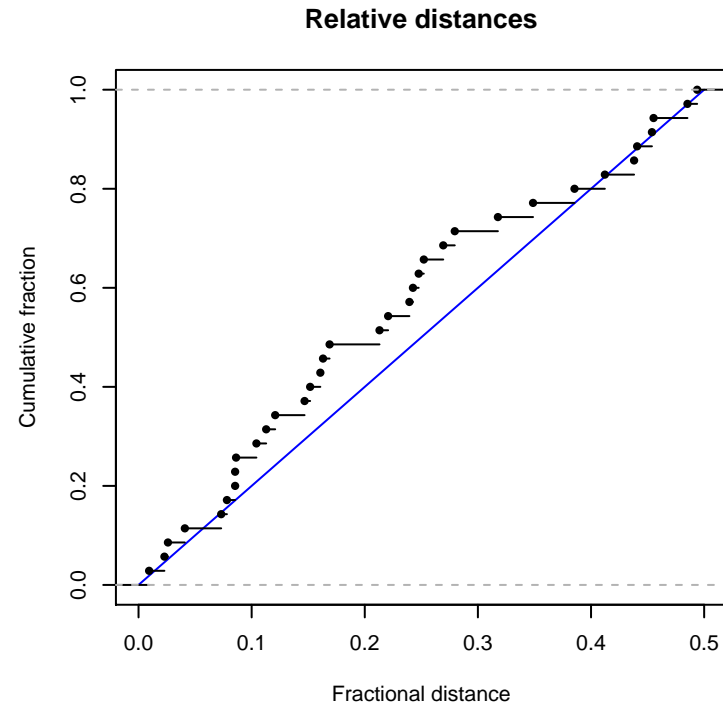
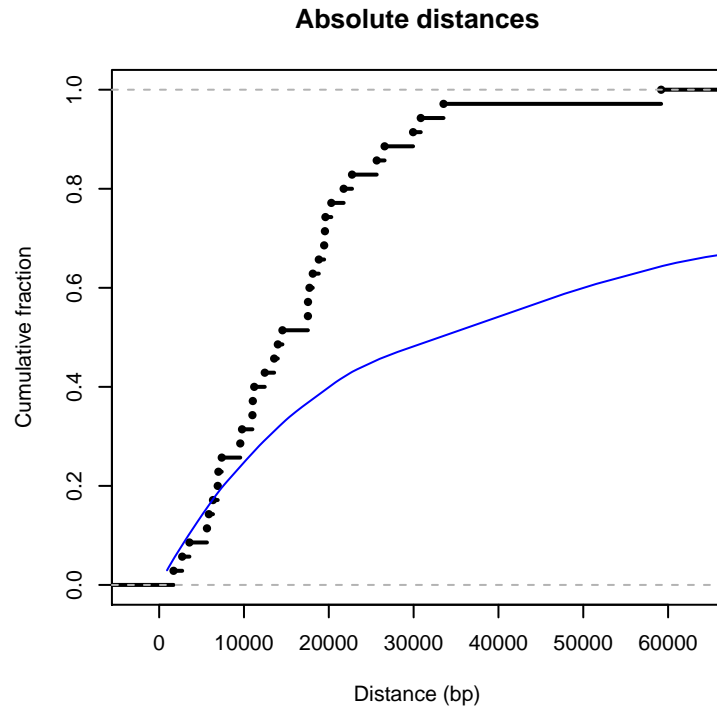
pcontig_005

Query population : 41
Reference population : 41
Relative Ks p-value : 0.0929149
Relative ecdf deviation area : 0.0469071
Relative ecdf area correlation : 0.186855
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 : 0.1
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.255959
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



pcontig_006

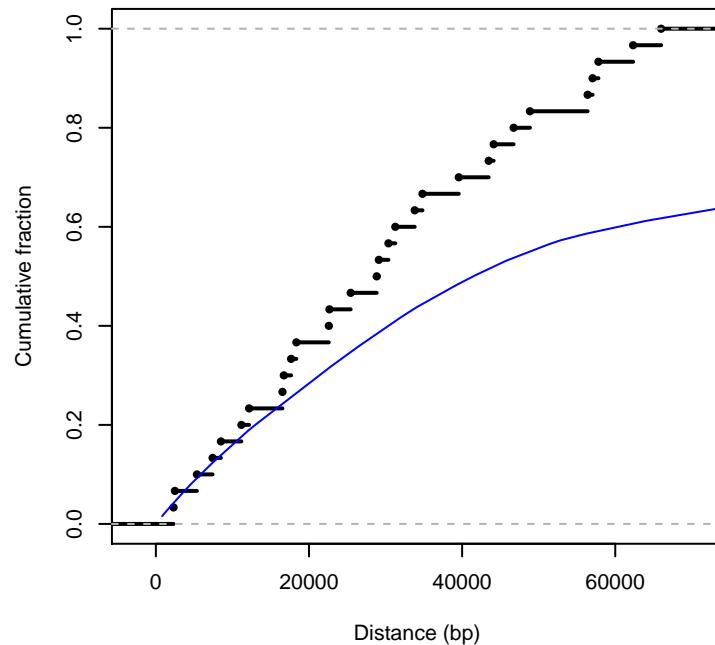
Query population : 35
Reference population : 48
Relative Ks p-value : 0.333378
Relative ecdf deviation area : 0.0299861
Relative ecdf area correlation : 0.104915
Relative ecdf deviation area p-value : 0.35
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.06
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.269833
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



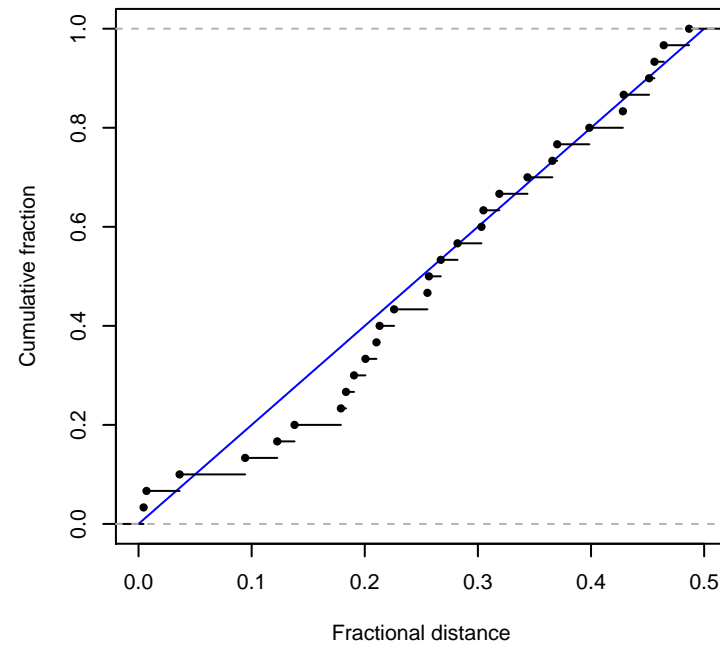
pcontig_007

Query population : 30
Reference population : 29
Relative Ks p-value : 0.401973
Relative ecdf deviation area : 0.0207834
Relative ecdf area correlation : -0.0649731
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 : 0.38
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.489626
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

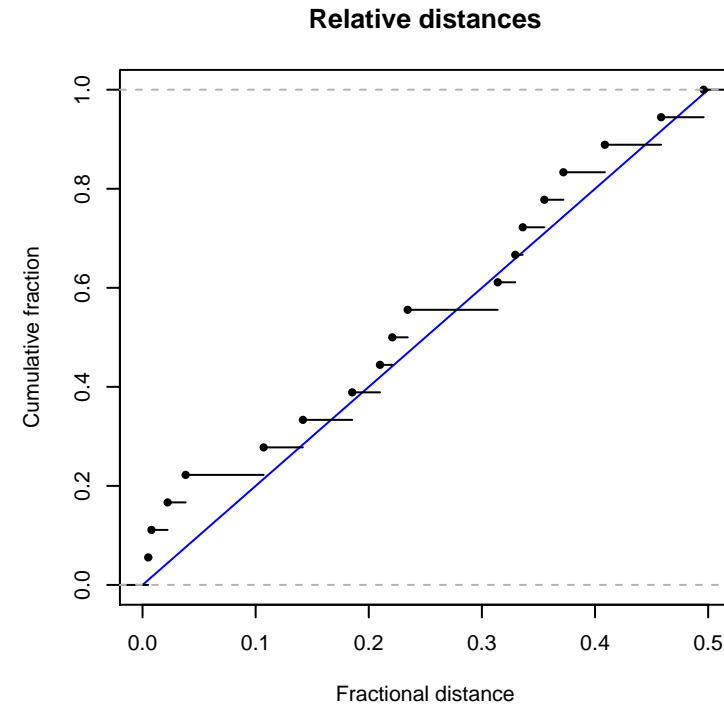
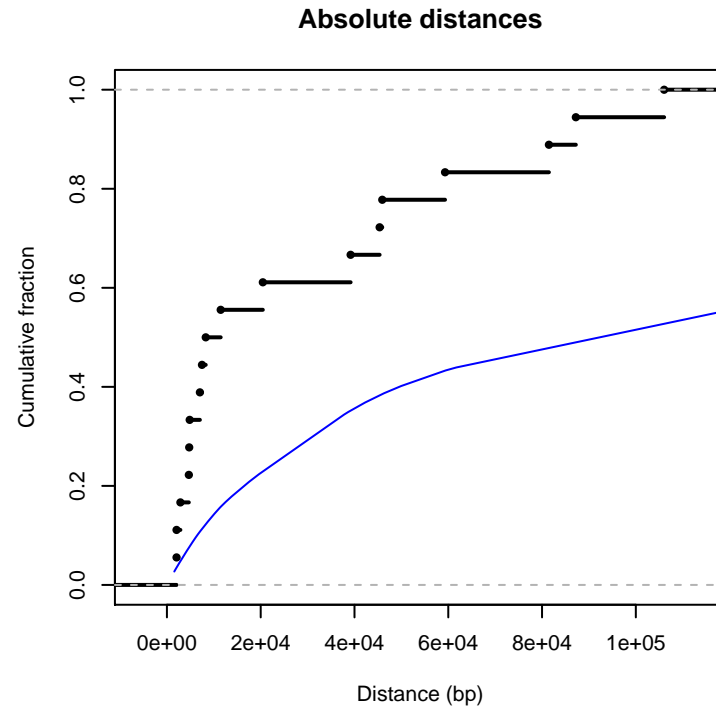


Relative distances



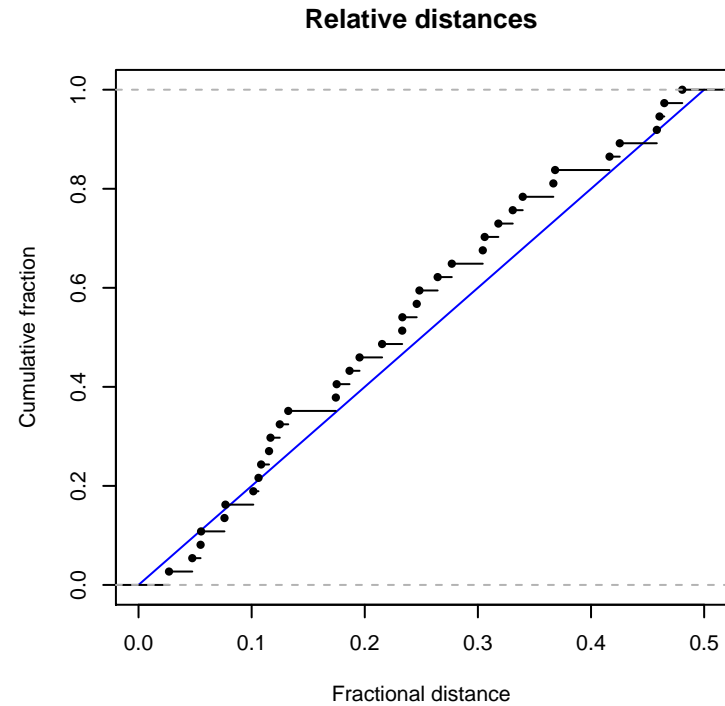
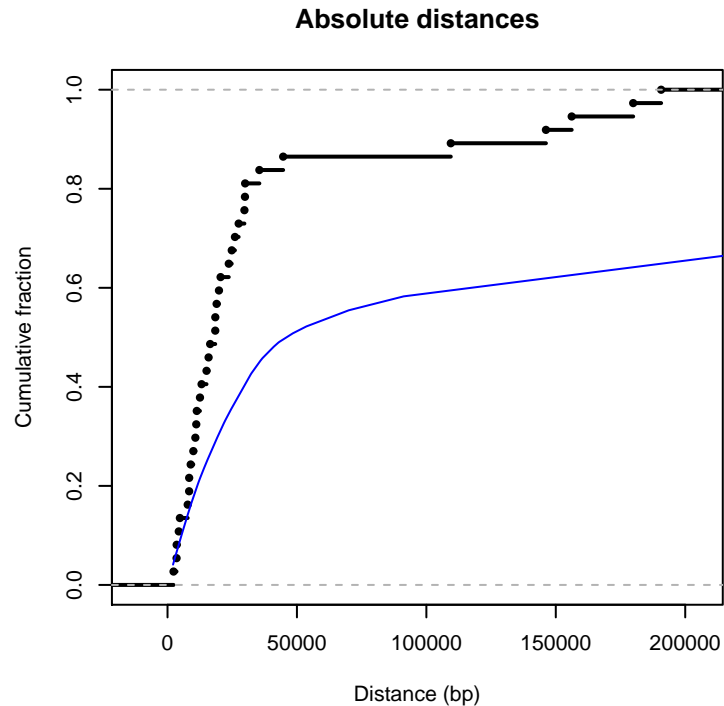
pcontig_008

Query population : 18
Reference population : 26
Relative Ks p-value : 0.785994
Relative ecdf deviation area : 0.0208306
Relative ecdf area correlation : 0.057207
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 : 0.44
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.302652
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



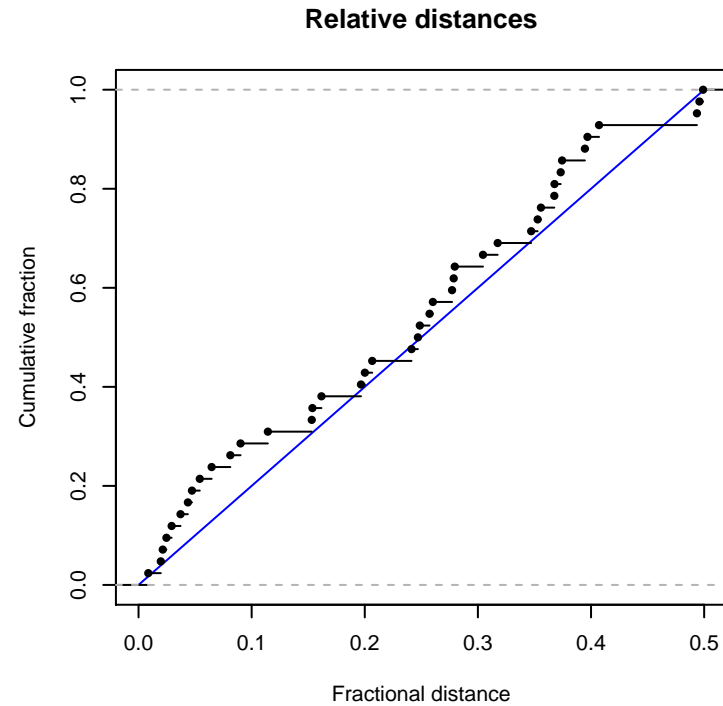
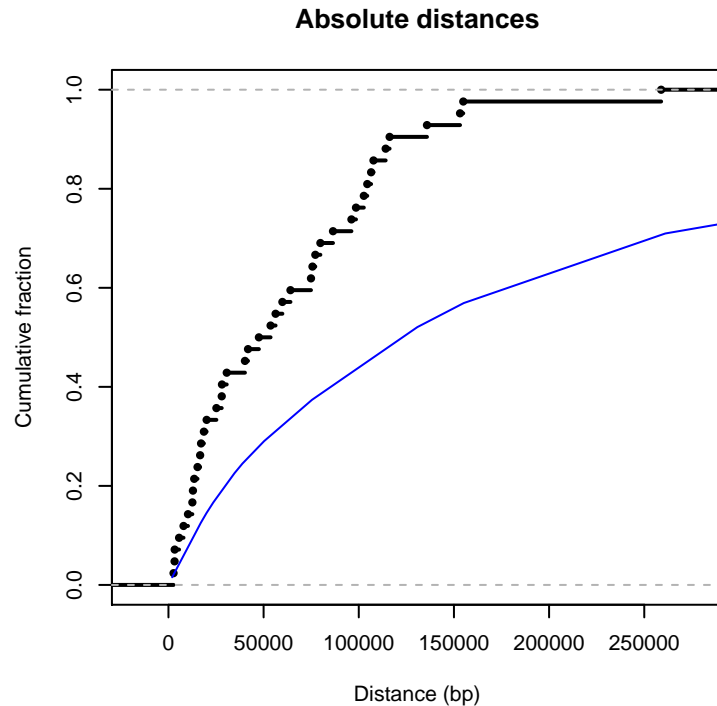
pcontig_009

Query population : 37
Reference population : 29
Relative Ks p-value : 0.775306
Relative ecdf deviation area : 0.0231659
Relative ecdf area correlation : 0.0669144
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 : 0.2
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.345605
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



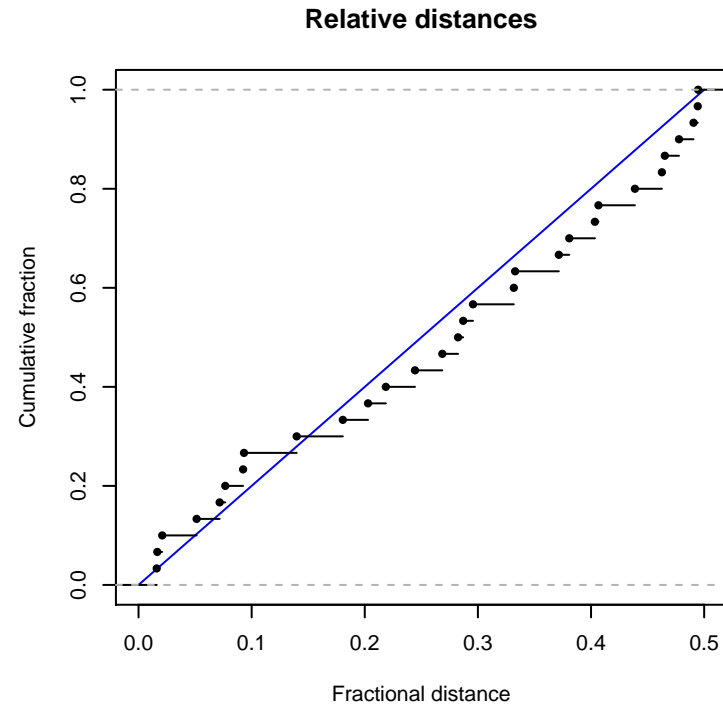
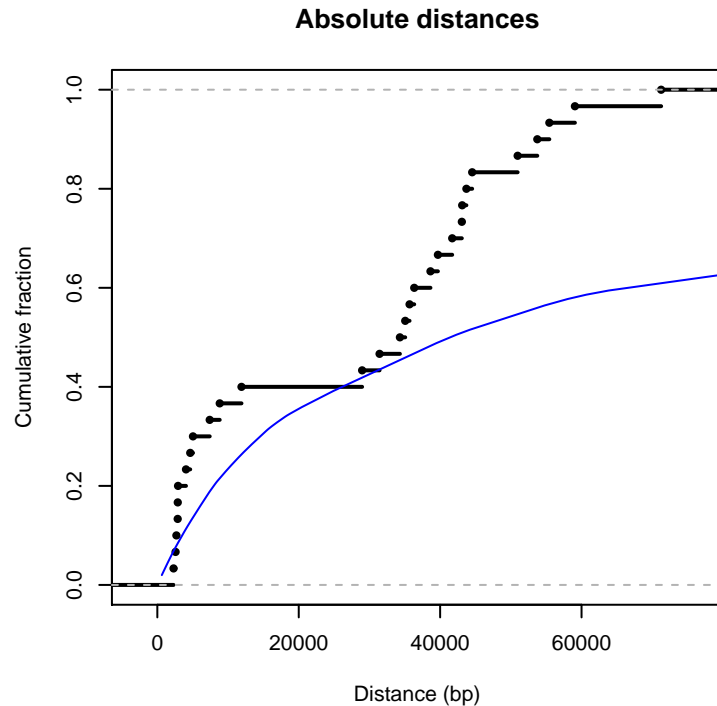
pcontig_010

Query population : 42
Reference population : 12
Relative Ks p-value : 0.601294
Relative ecdf deviation area : 0.022552
Relative ecdf area correlation : 0.0814024
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 : 0.4
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.31119
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



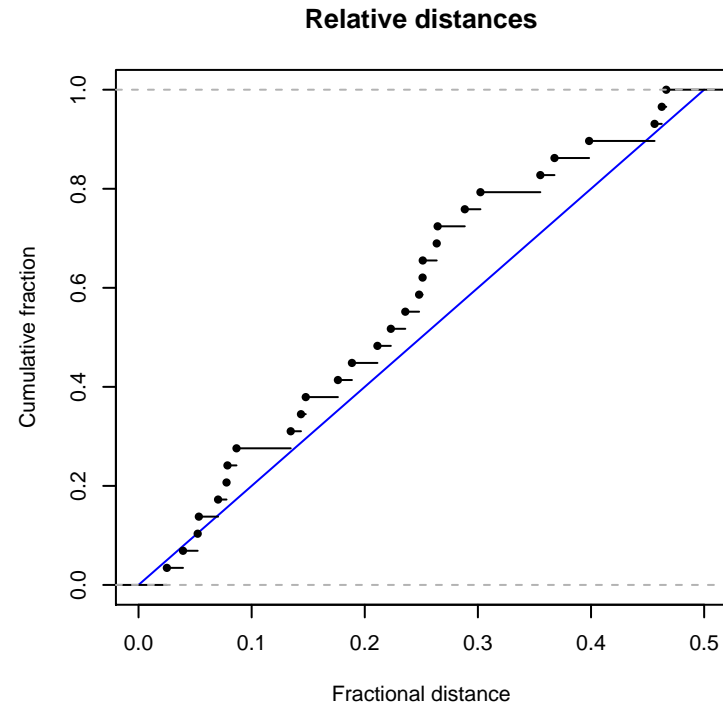
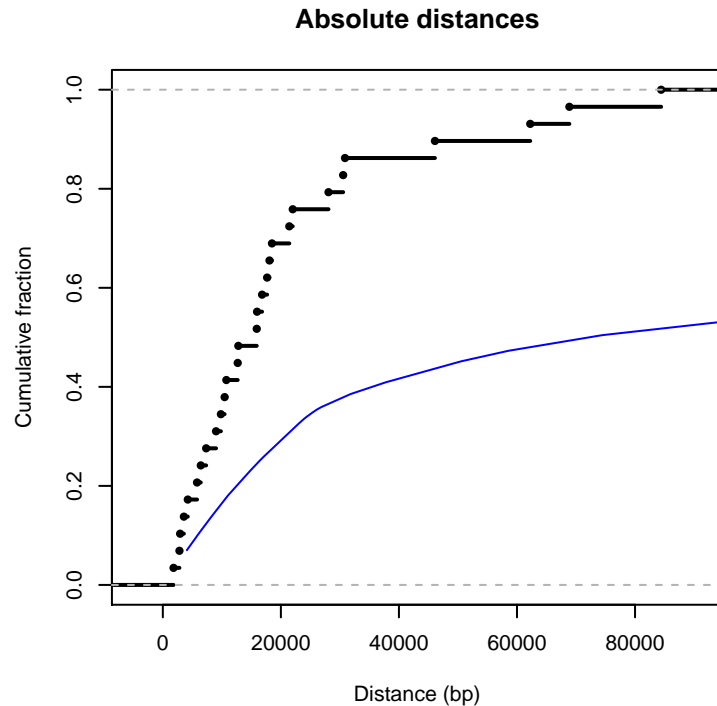
pcontig_011

Query population : 30
Reference population : 47
Relative Ks p-value : 0.687646
Relative ecdf deviation area : 0.0272023
Relative ecdf area correlation : -0.0813327
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 : 0.13
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.317668
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



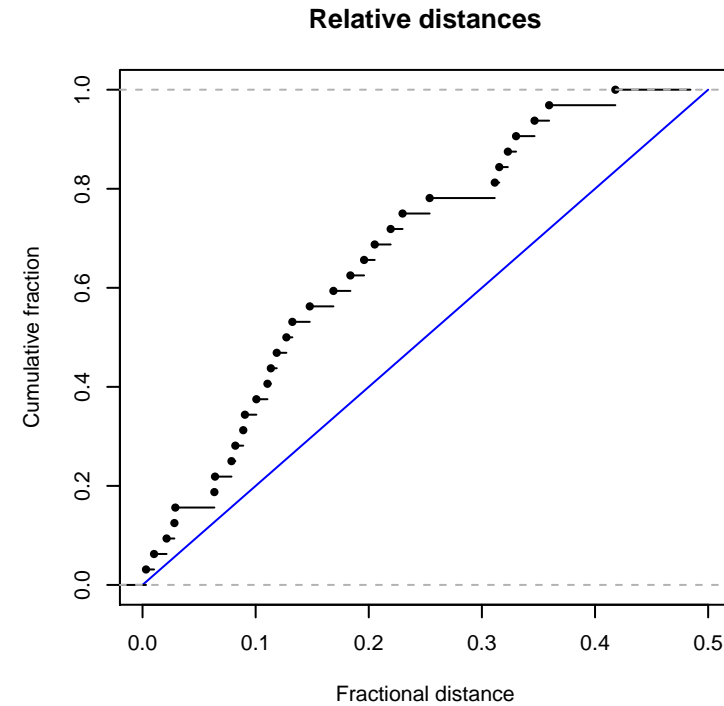
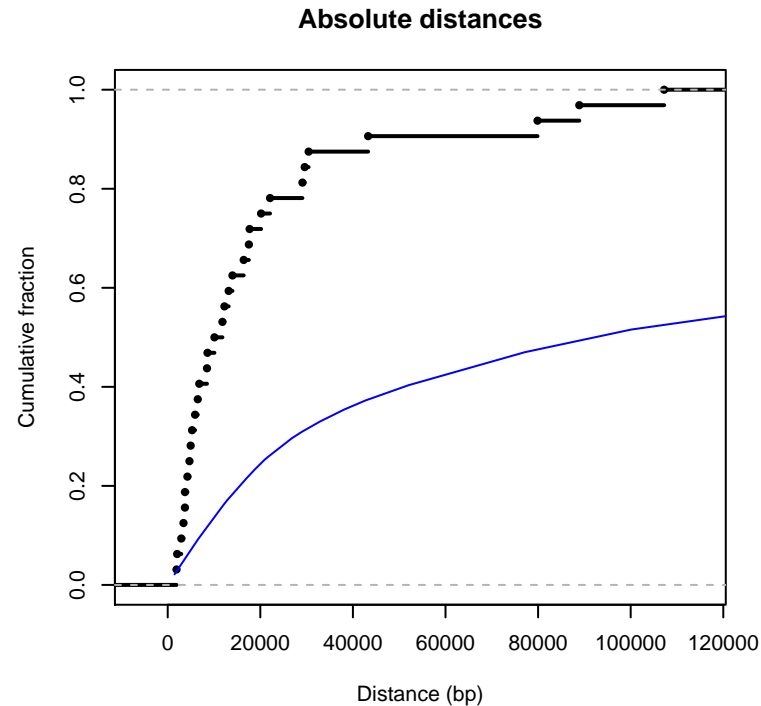
pcontig_012

Query population : 29
Reference population : 26
Relative Ks p-value : 0.191297
Relative ecdf deviation area : 0.0349984
Relative ecdf area correlation : 0.128309
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 : 0.39
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.42872
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



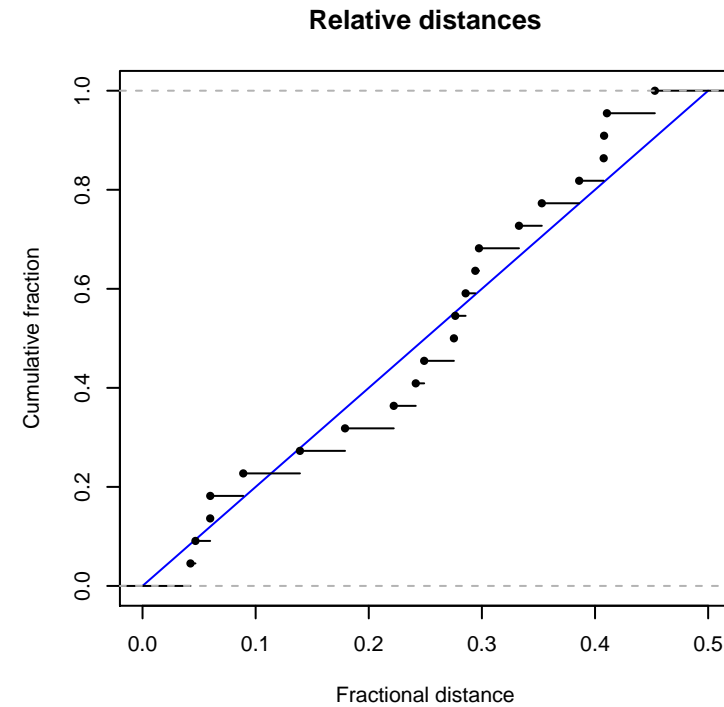
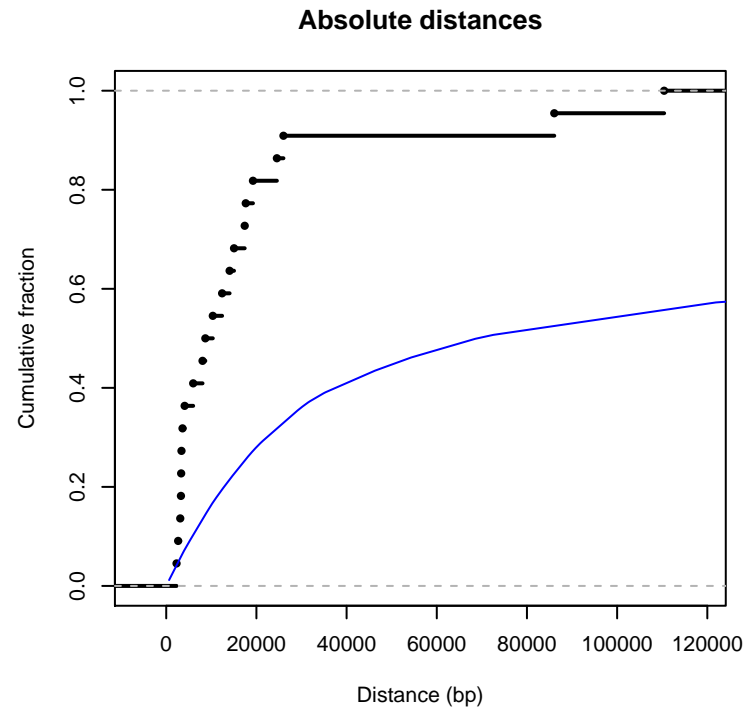
pcontig_013

Query population : 32
Reference population : 22
Relative Ks p-value : 0.00698716
Relative ecdf deviation area : 0.0860841
Relative ecdf area correlation : 0.341176
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.43
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.43238
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



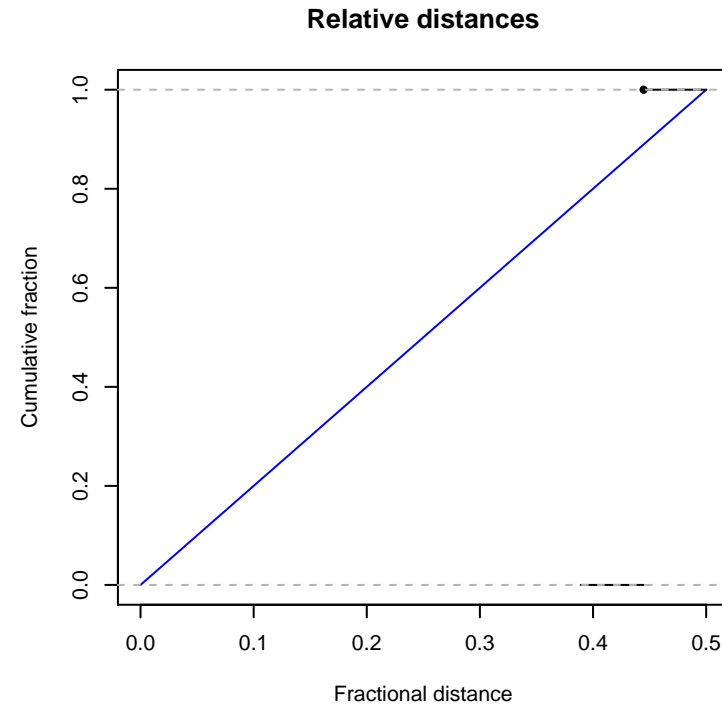
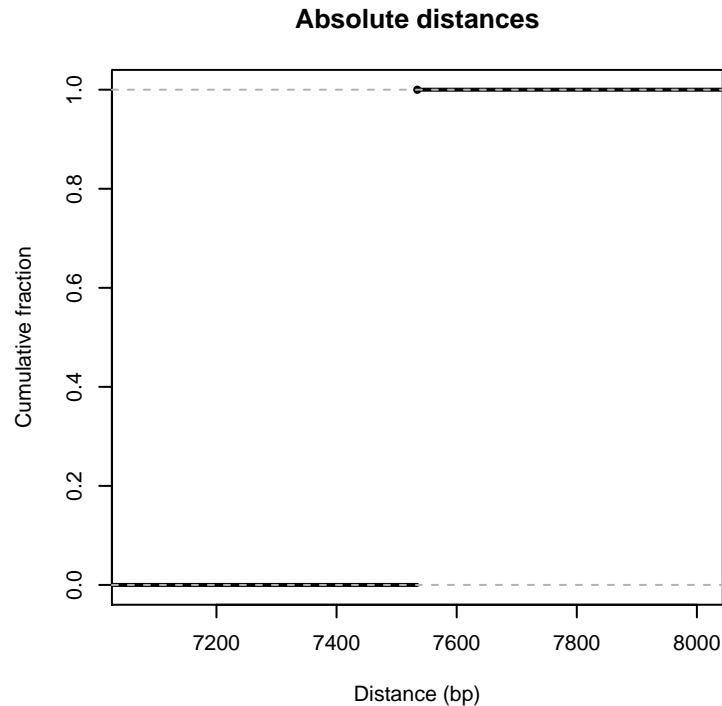
pcontig_014

Query population : 22
Reference population : 28
Relative Ks p-value : 0.780001
Relative ecdf deviation area : 0.0262803
Relative ecdf area correlation : -0.00151232
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 : 0.47
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.439825
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



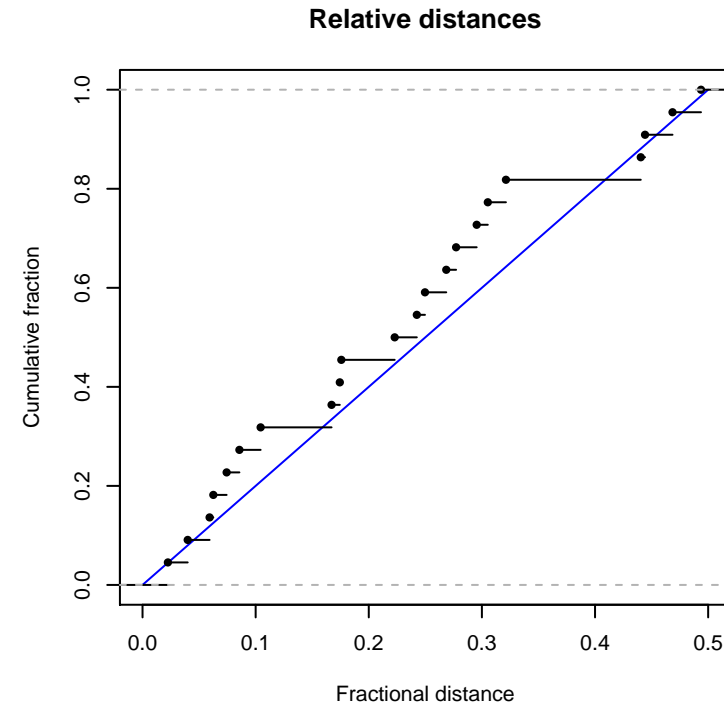
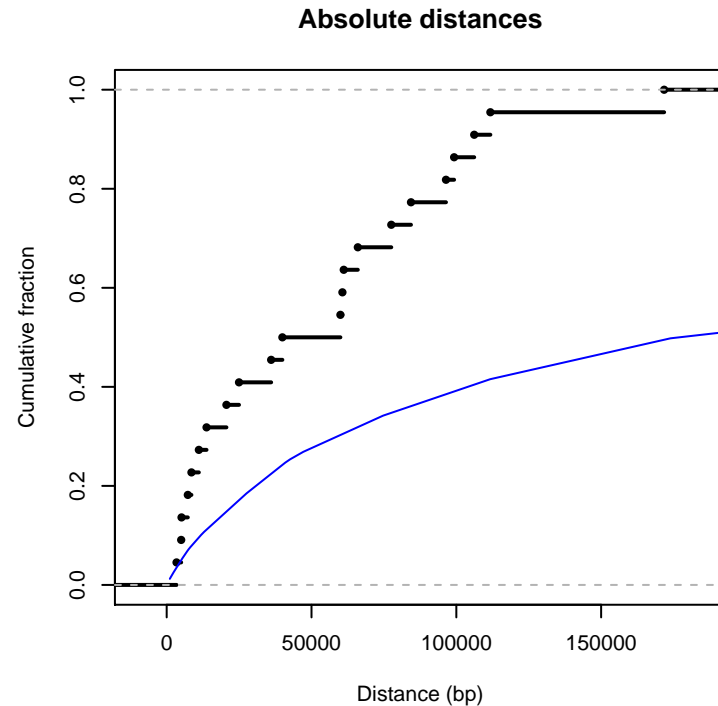
pcontig_015

Query population : 1
Reference population : 2
Relative Ks p-value : 0.221107
Relative ecdf deviation area : 0.201294
Relative ecdf area correlation : -0.778893
Relative ecdf deviation area p-value : 0.17
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 : 0.00137561
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



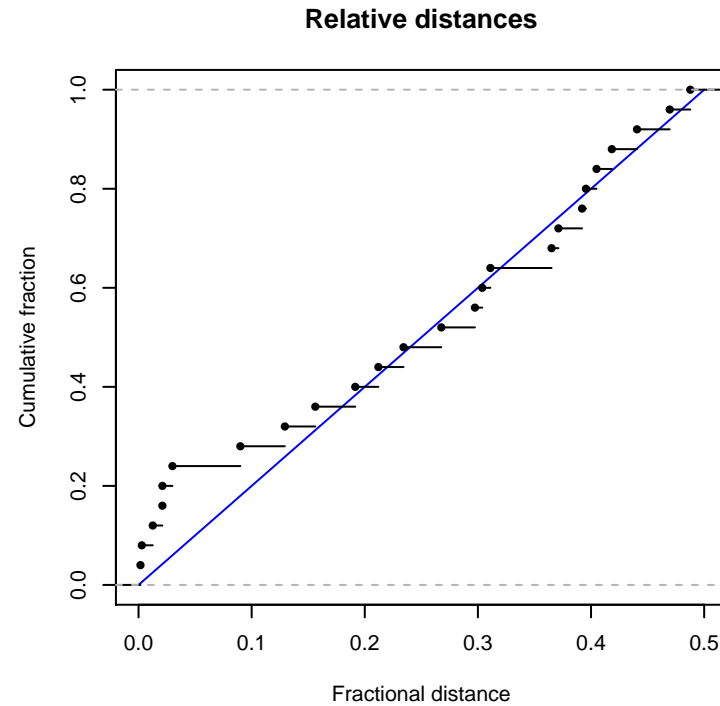
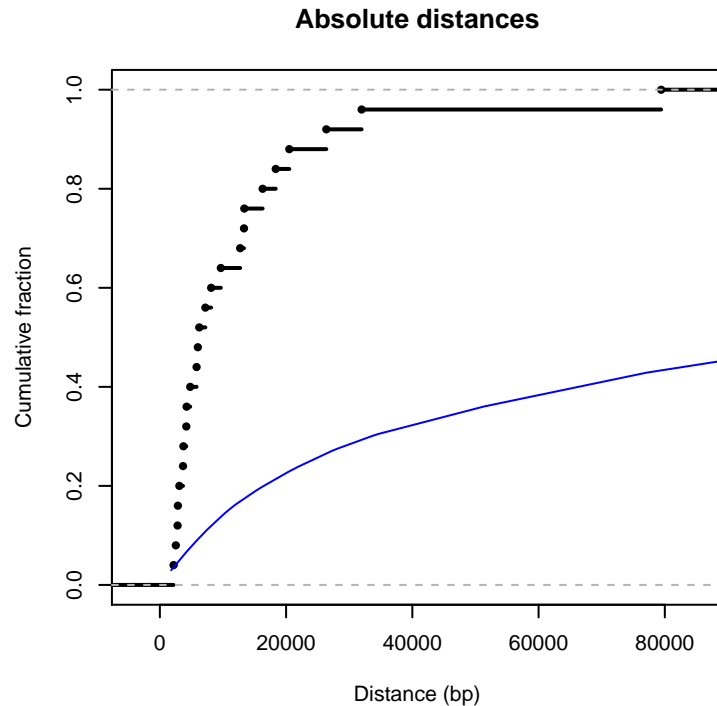
pcontig_016

Query population : 22
Reference population : 17
Relative Ks p-value : 0.454434
Relative ecdf deviation area : 0.0282461
Relative ecdf area correlation : 0.0917637
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 : 0.48
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.296233
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



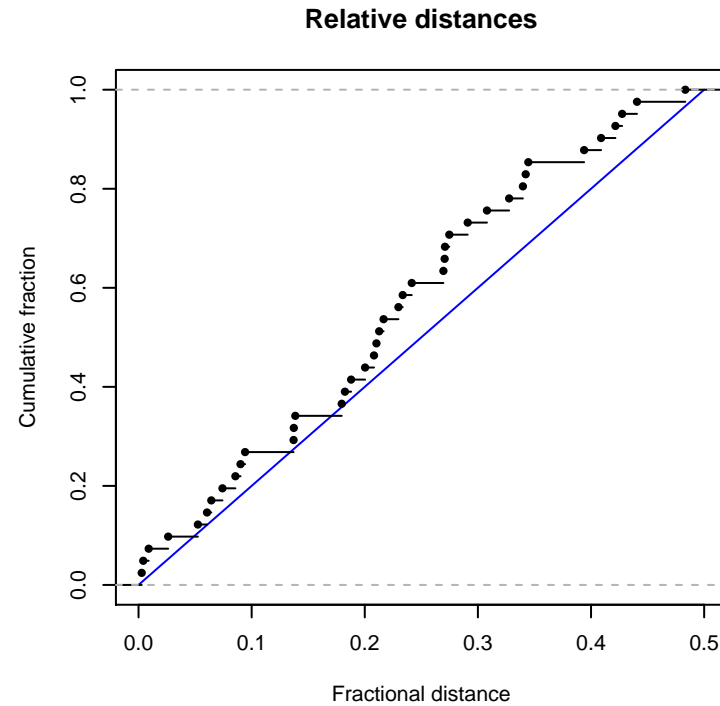
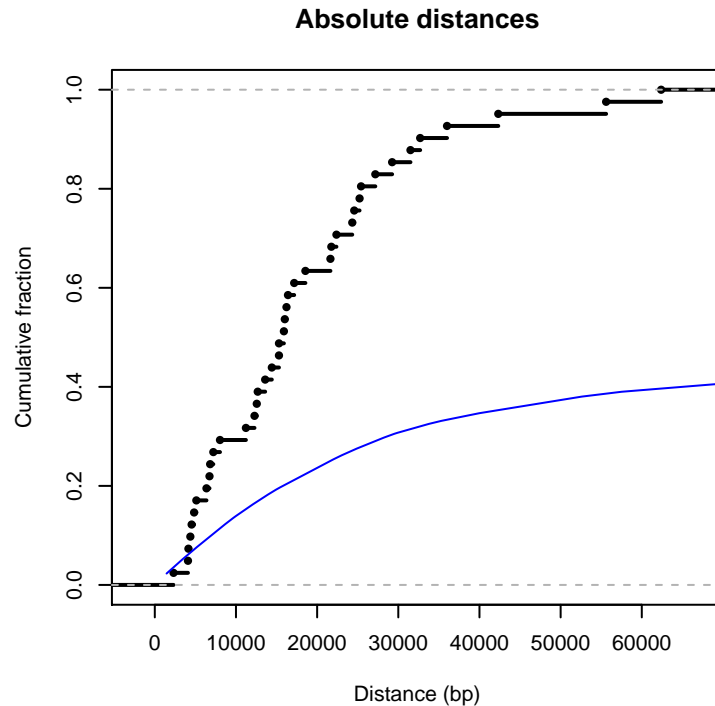
pcontig_017

Query population : 25
Reference population : 25
Relative Ks p-value : 0.349711
Relative ecdf deviation area : 0.0209395
Relative ecdf area correlation : 0.0355298
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 : 0.49
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.361588
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



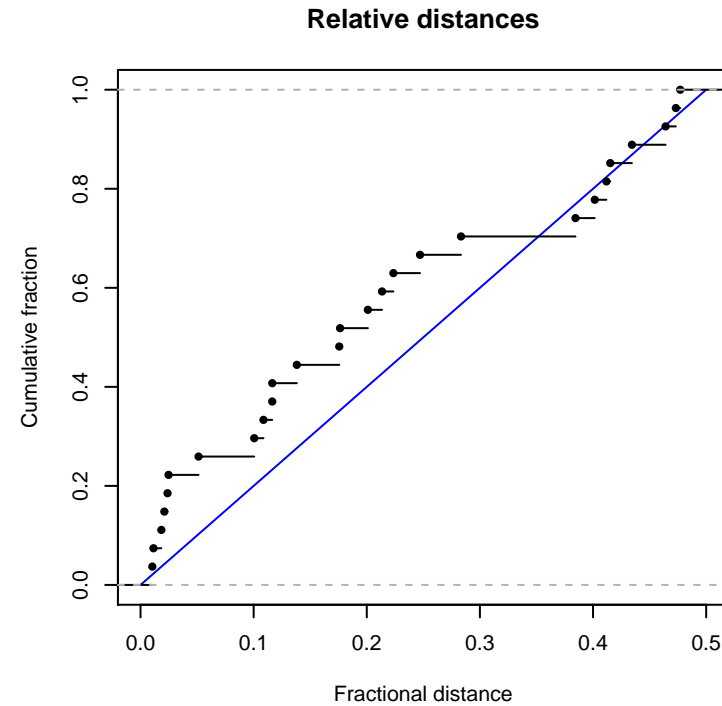
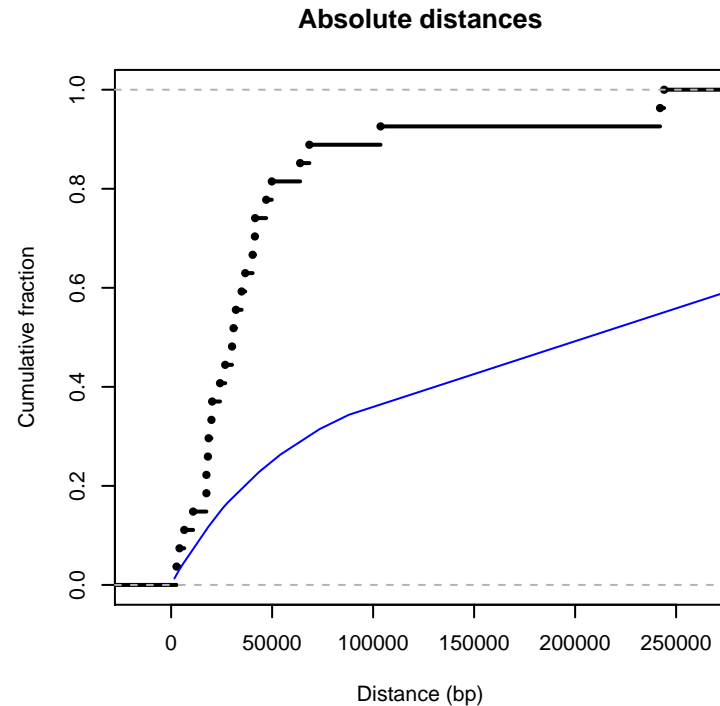
pcontig_018

Query population : 41
Reference population : 24
Relative Ks p-value : 0.194151
Relative ecdf deviation area : 0.0333854
Relative ecdf area correlation : 0.132271
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 : 0.32
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.478053
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



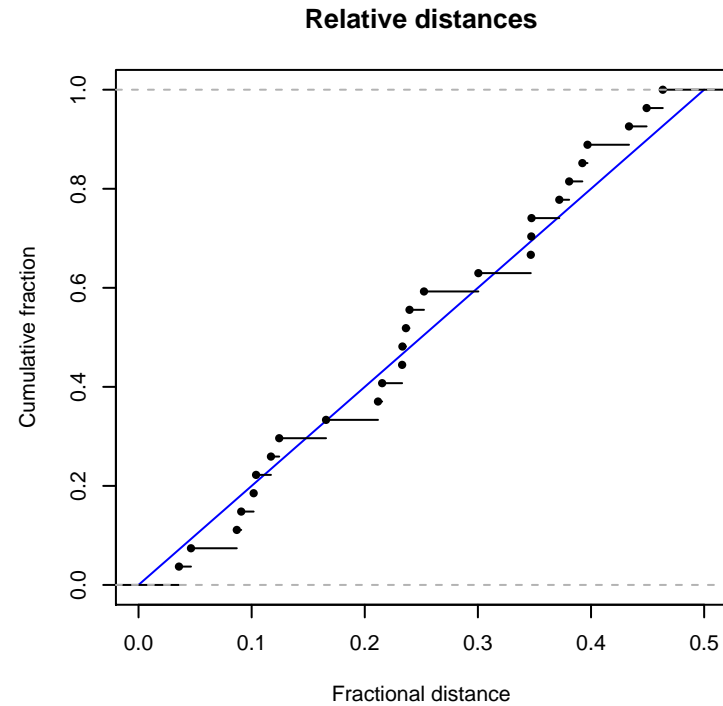
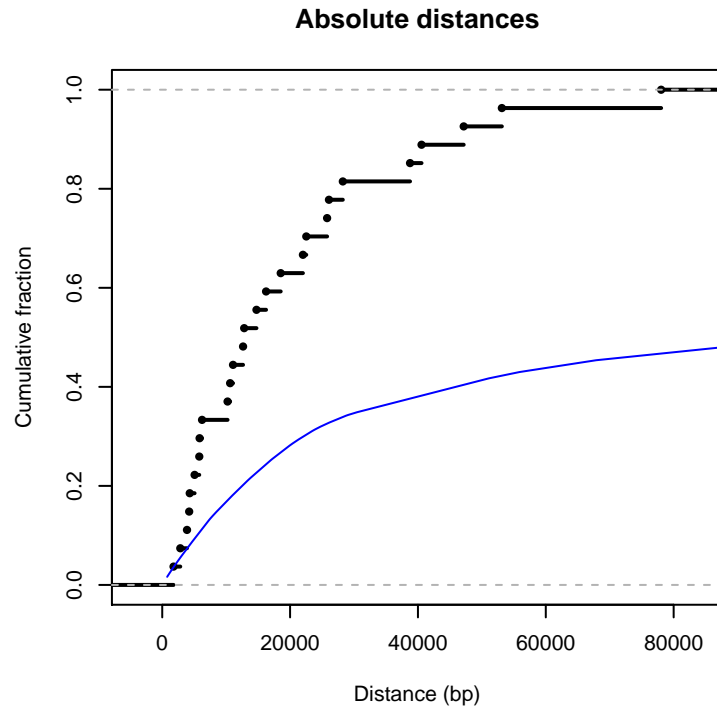
pcontig_019

Query population : 27
Reference population : 12
Relative Ks p-value : 0.292457
Relative ecdf deviation area : 0.0444149
Relative ecdf area correlation : 0.15201
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 : 0.29
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.234846
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_020

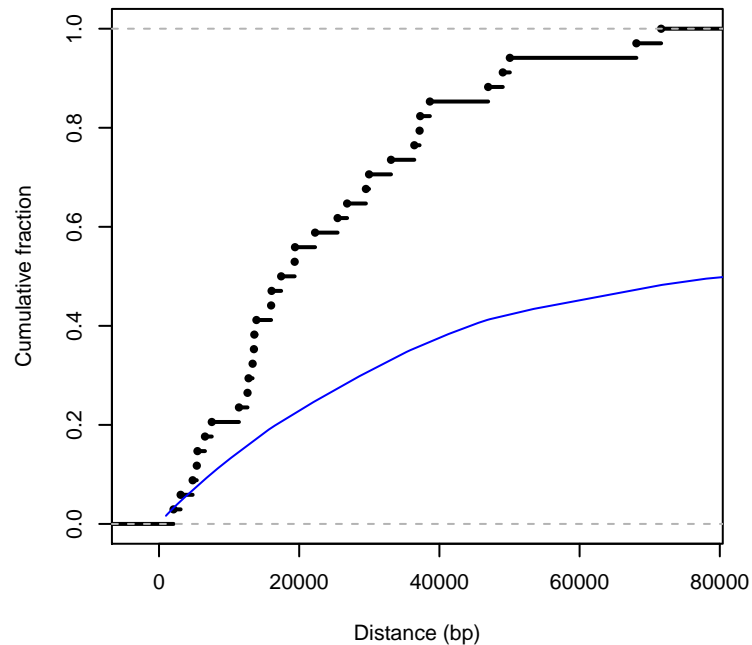
Query population : 27
Reference population : 32
Relative Ks p-value : 0.926982
Relative ecdf deviation area : 0.0198029
Relative ecdf area correlation : 0.00384312
Relative ecdf deviation area p-value : 0.75
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.3
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.481105
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



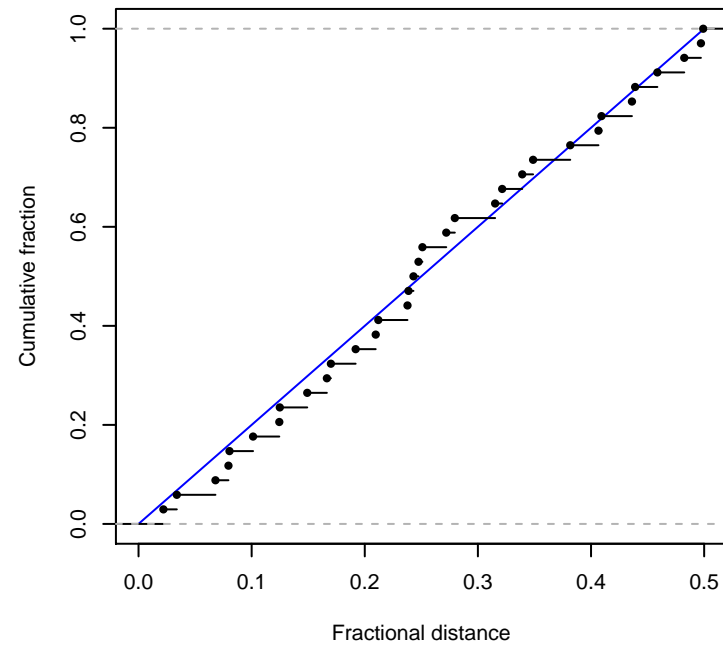
pcontig_021

Query population : 34
Reference population : 25
Relative Ks p-value : 0.977892
Relative ecdf deviation area : 0.0138949
Relative ecdf area correlation : -0.039747
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 : 0.43
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.457918
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

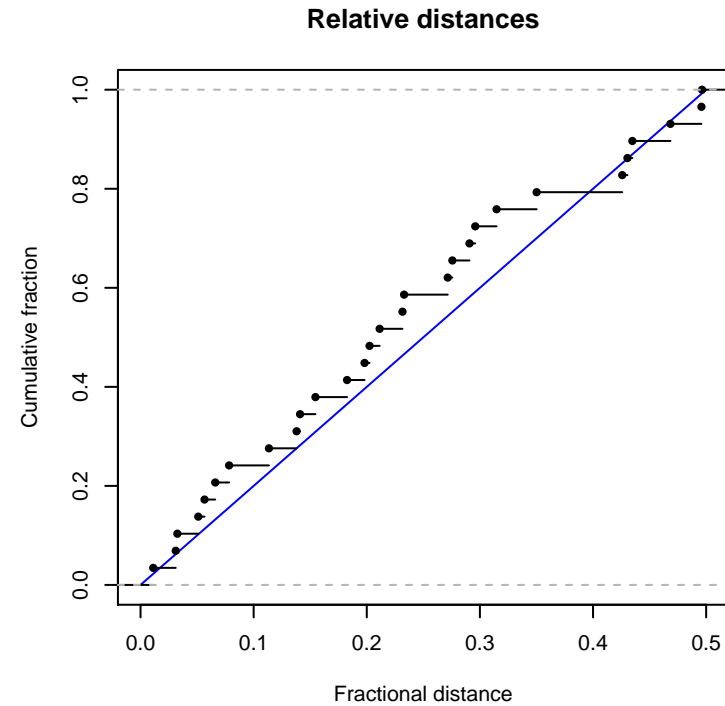
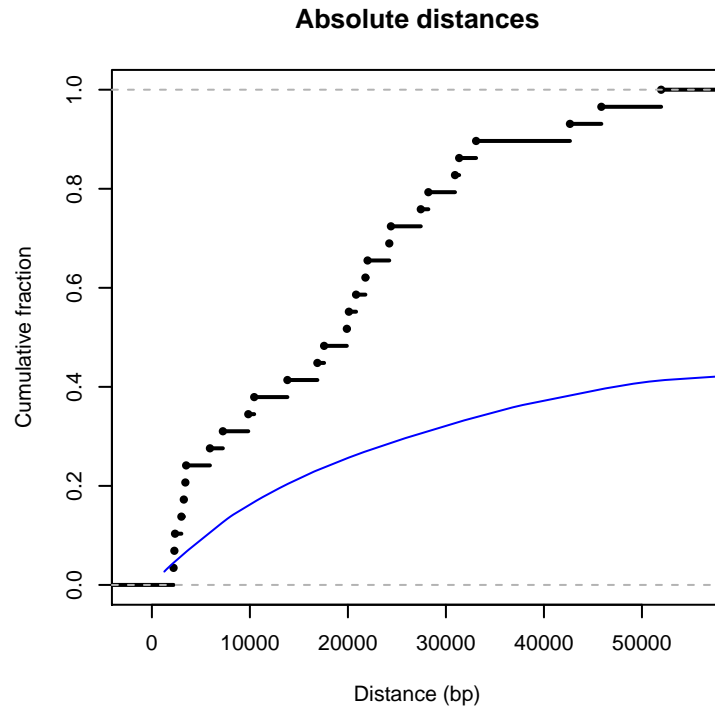


Relative distances



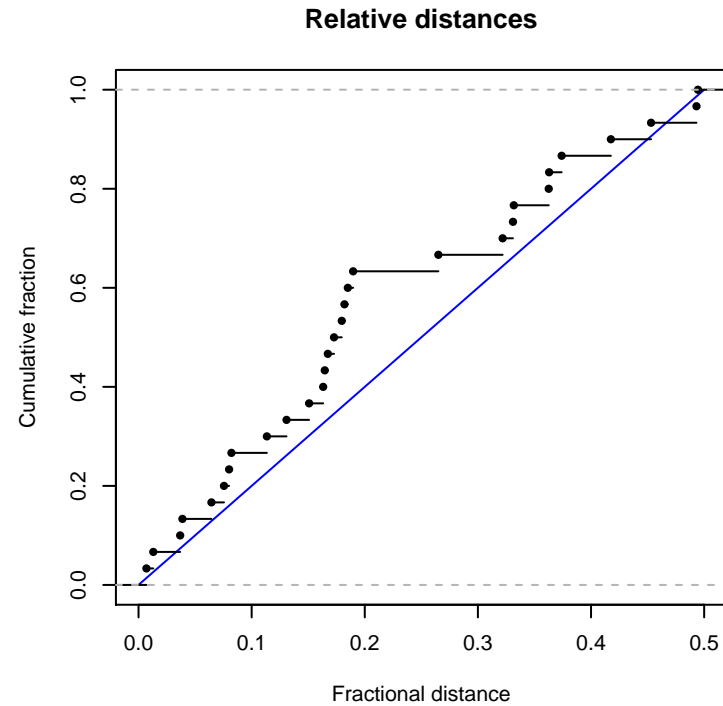
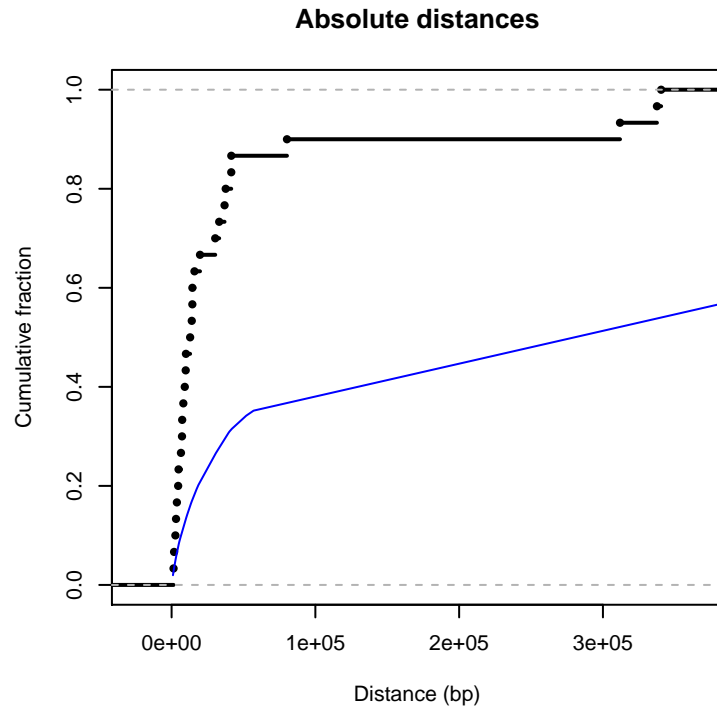
pcontig_022

Query population : 29
Reference population : 32
Relative Ks p-value : 0.641982
Relative ecdf deviation area : 0.0248608
Relative ecdf area correlation : 0.0781327
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 : 0.33
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.45954
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



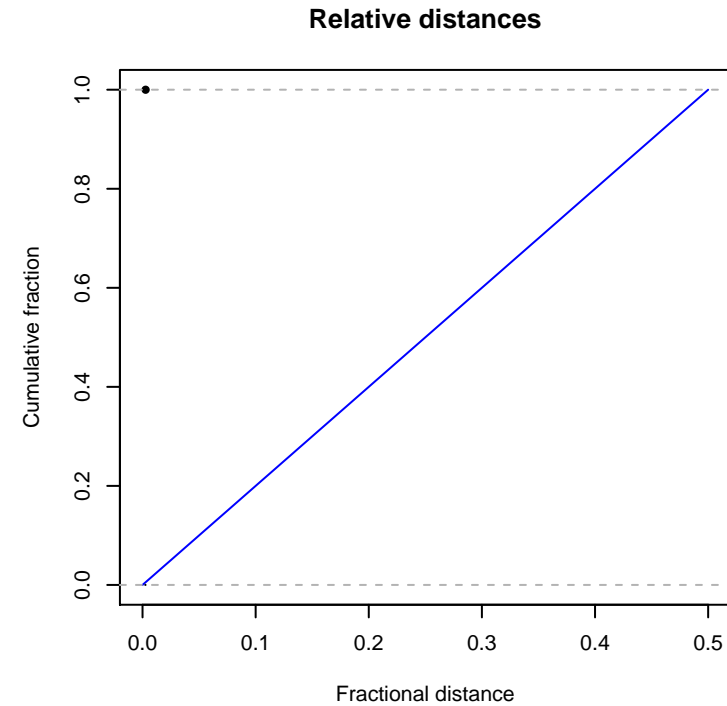
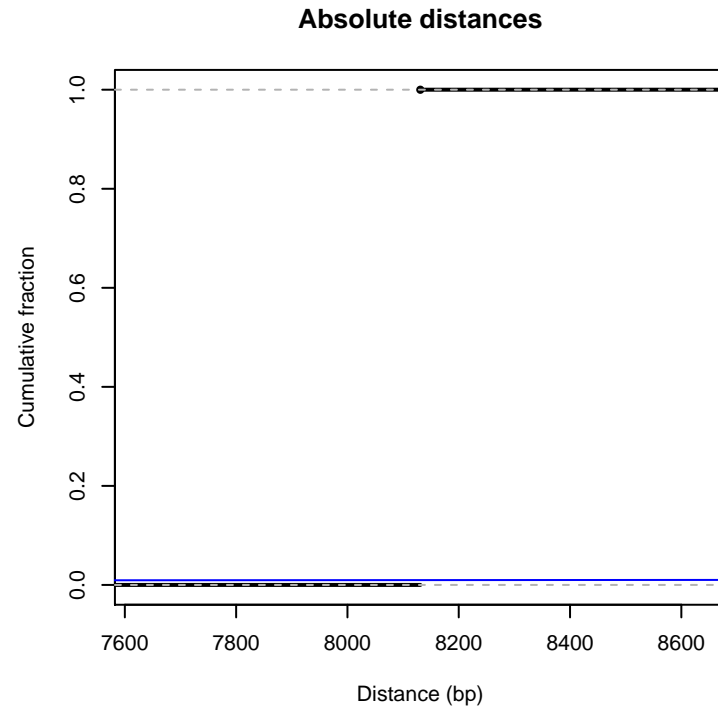
pcontig_023

Query population : 30
Reference population : 31
Relative Ks p-value : 0.0341584
Relative ecdf deviation area : 0.0382073
Relative ecdf area correlation : 0.146014
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 : 0.31
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.490661
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



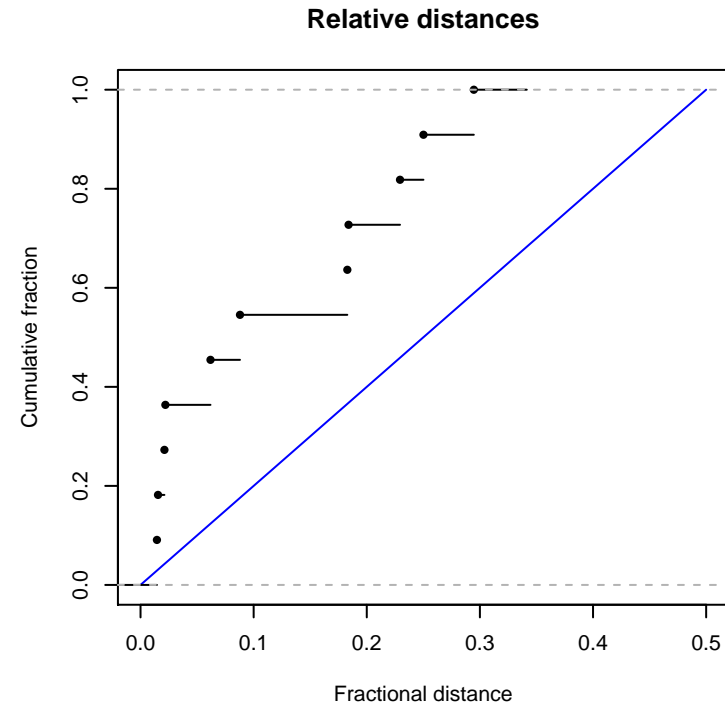
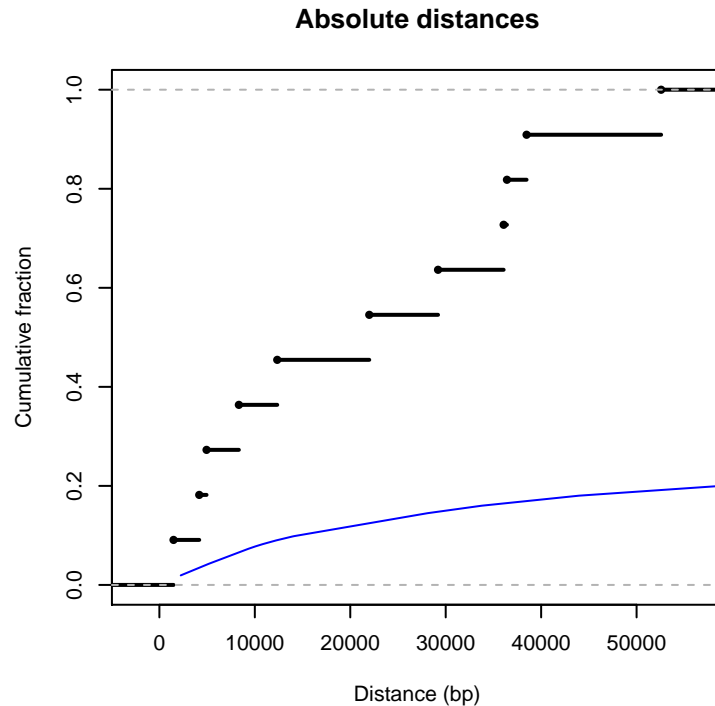
pcontig_024

Query population : 1
Reference population : 2
Relative Ks p-value : 0.0108332
Relative ecdf deviation area : 0.246924
Relative ecdf area correlation : 0.989167
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00227964
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



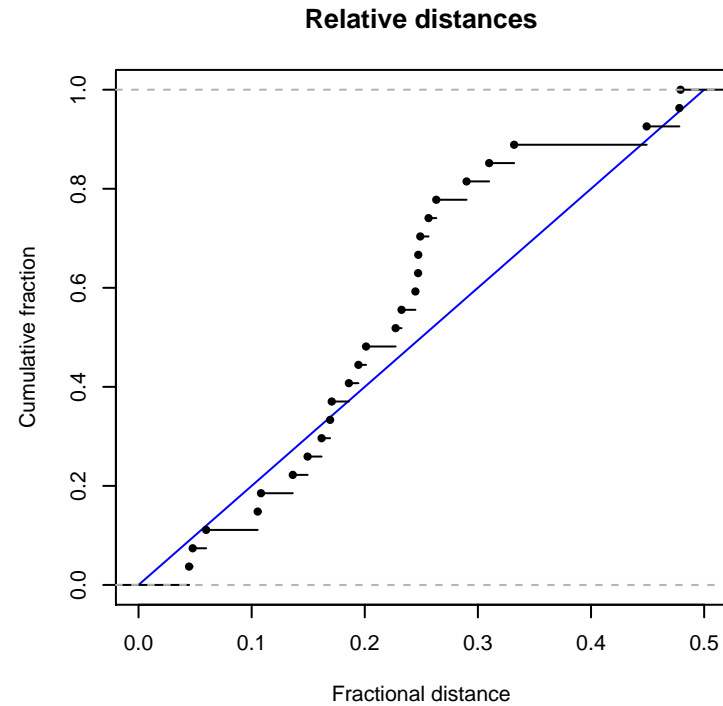
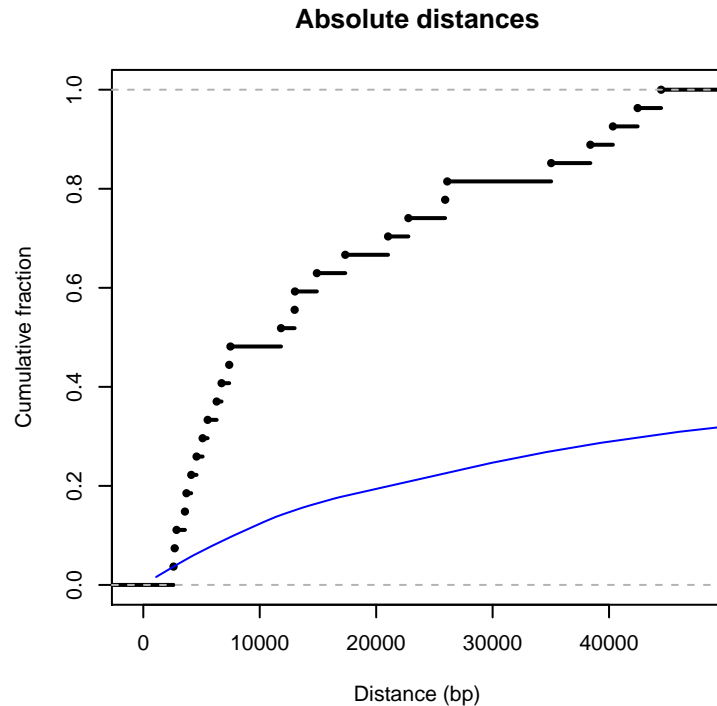
pcontig_025

Query population : 11
Reference population : 13
Relative Ks p-value : 0.0342396
Relative ecdf deviation area : 0.126772
Relative ecdf area correlation : 0.50412
Relative ecdf deviation area p-value : <0.01
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 : 0.15353
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



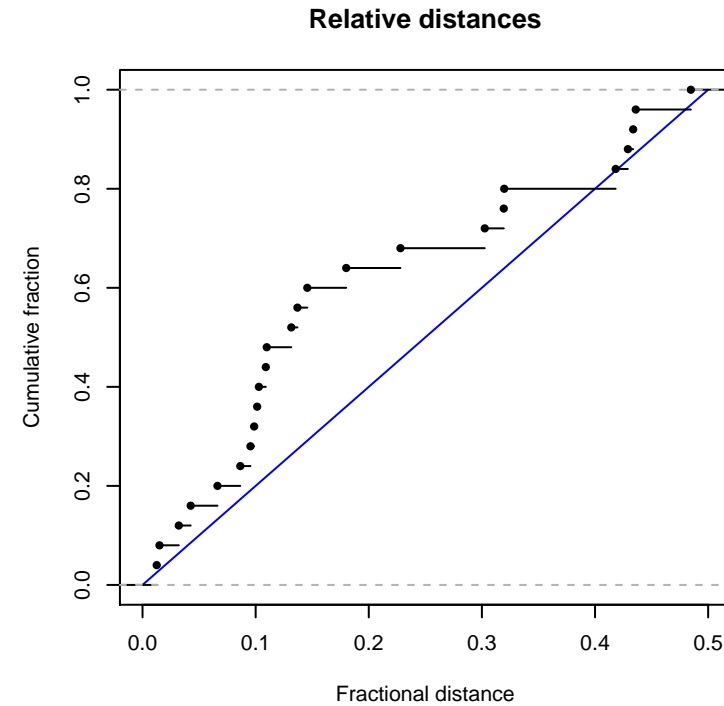
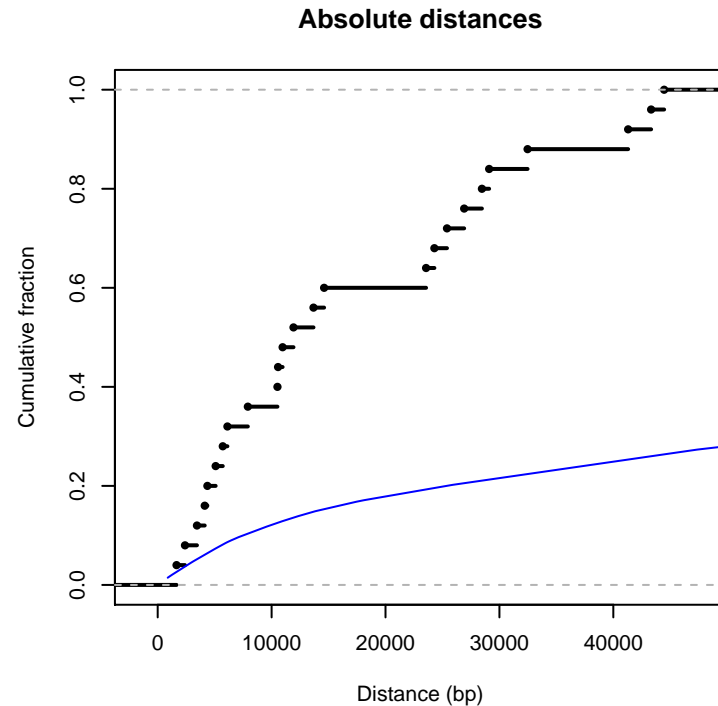
pcontig_026

Query population : 27
Reference population : 22
Relative Ks p-value : 0.0544893
Relative ecdf deviation area : 0.0434488
Relative ecdf area correlation : 0.105024
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 : 0.45
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.382905
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



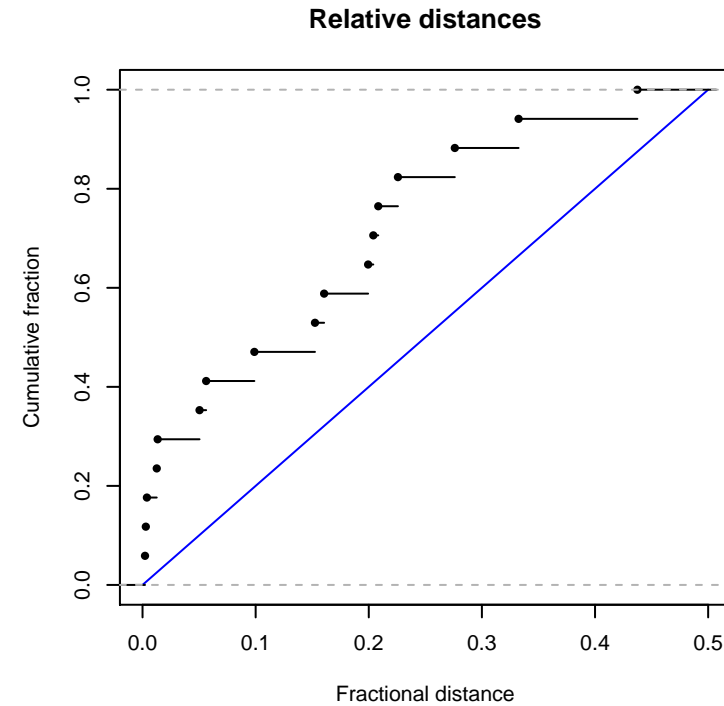
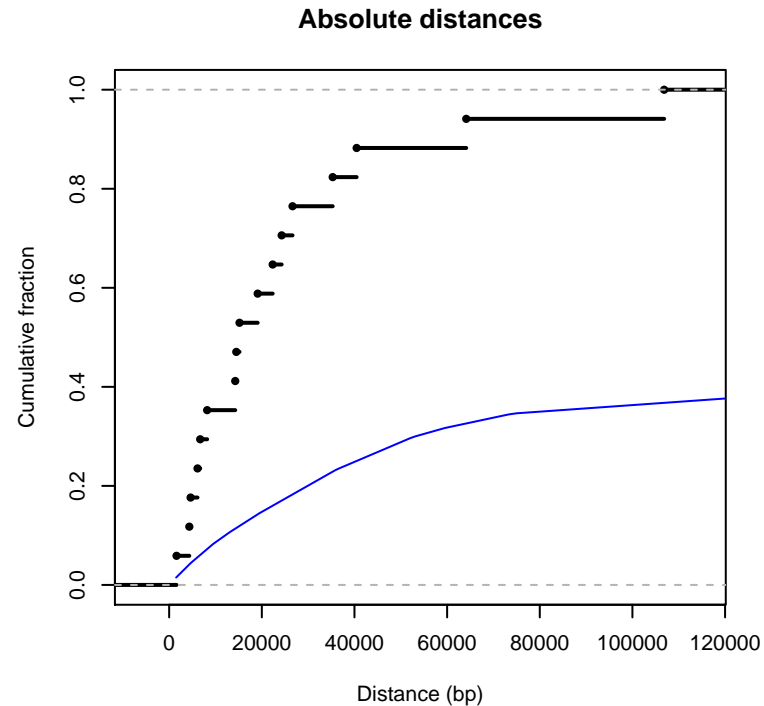
pcontig_027

Query population : 25
Reference population : 25
Relative Ks p-value : 0.0129854
Relative ecdf deviation area : 0.0575338
Relative ecdf area correlation : 0.226044
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 : 0.44
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.407733
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



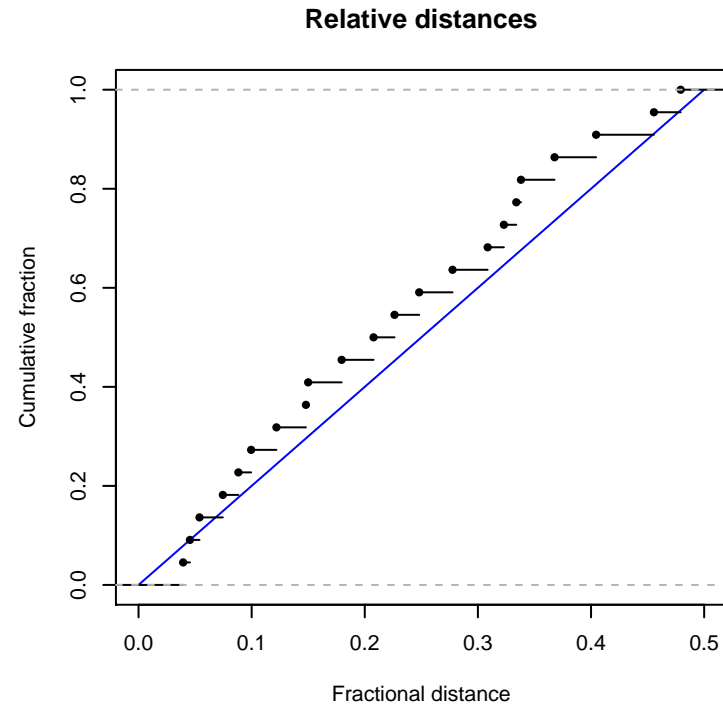
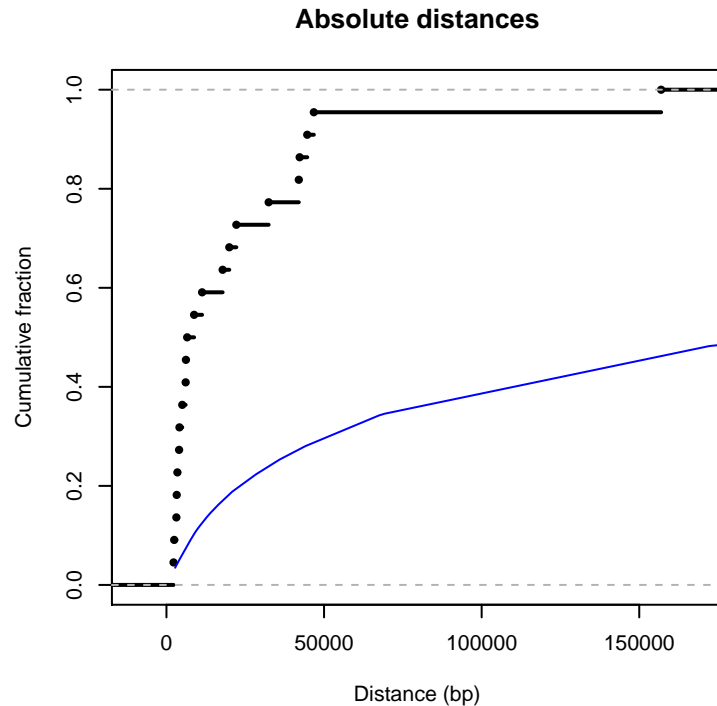
pcontig_028

Query population : 17
Reference population : 15
Relative Ks p-value : 0.0128104
Relative ecdf deviation area : 0.107072
Relative ecdf area correlation : 0.42662
Relative ecdf deviation area p-value : <0.01
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 : 0.1813
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



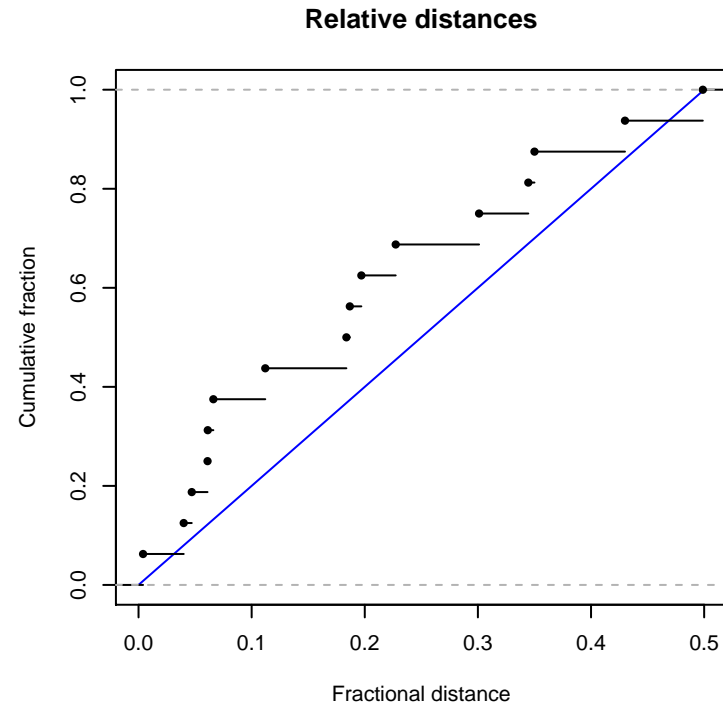
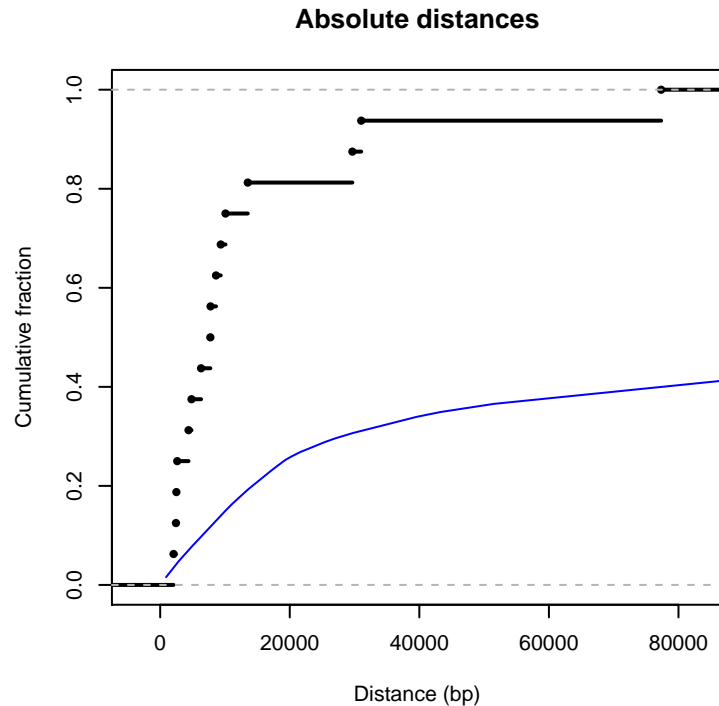
pcontig_029

Query population : 22
Reference population : 19
Relative Ks p-value : 0.714589
Relative ecdf deviation area : 0.0280473
Relative ecdf area correlation : 0.0961758
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 : 0.46
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.24225
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



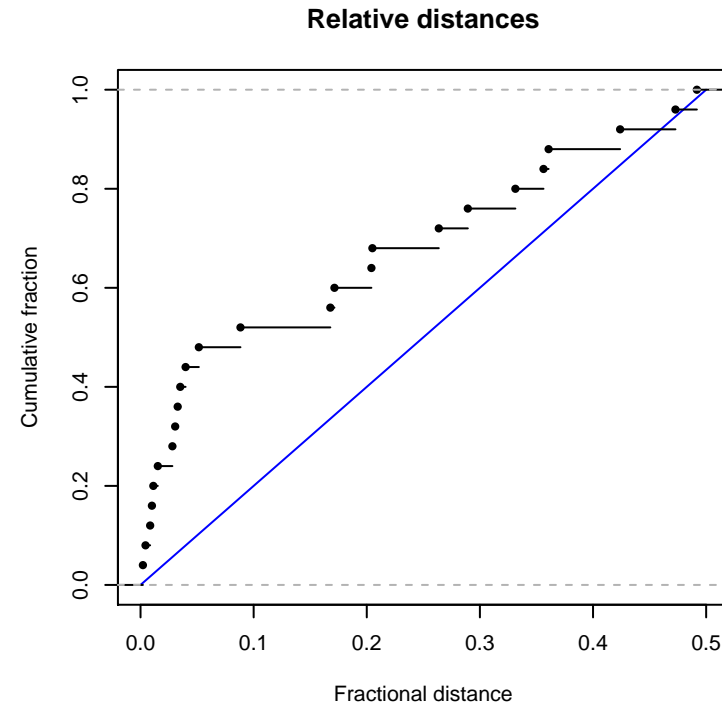
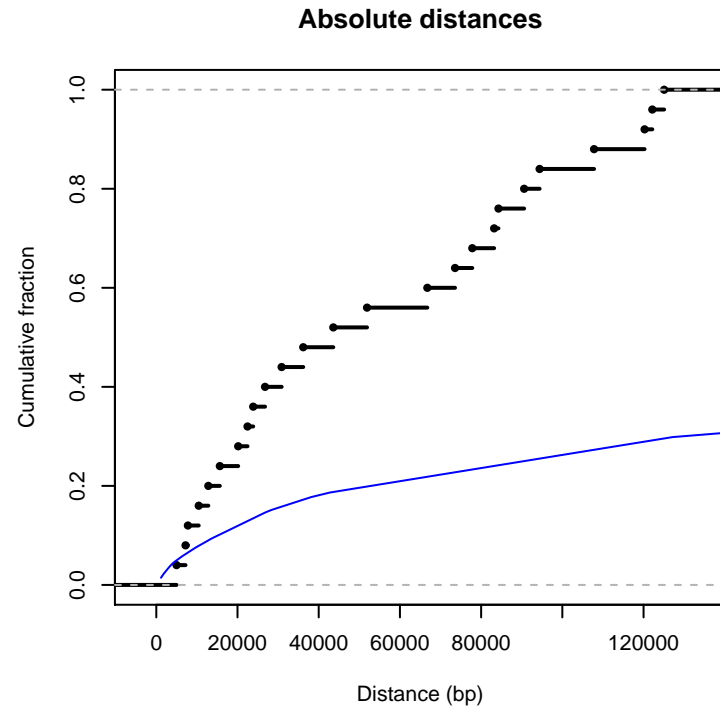
pcontig_030

Query population : 16
Reference population : 26
Relative Ks p-value : 0.257758
Relative ecdf deviation area : 0.0576553
Relative ecdf area correlation : 0.222345
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 : 0.22
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.223164
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



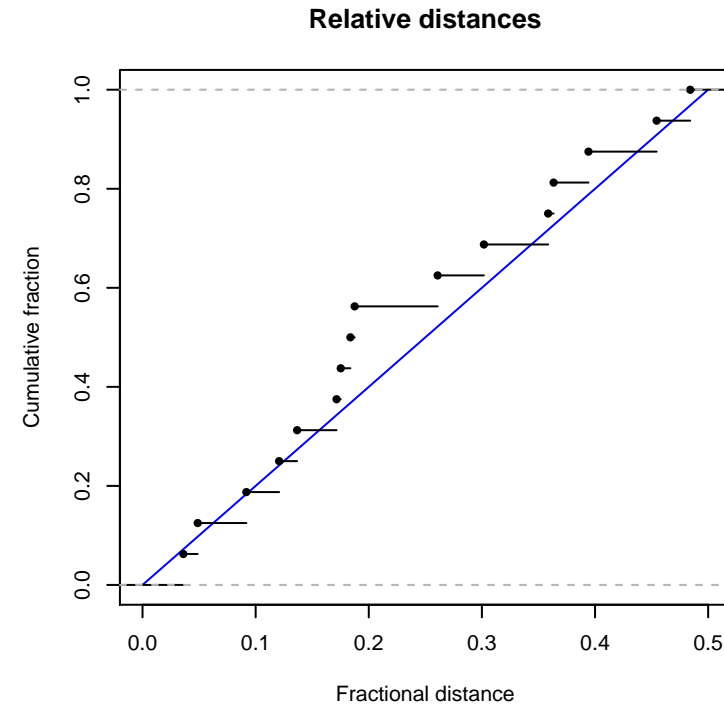
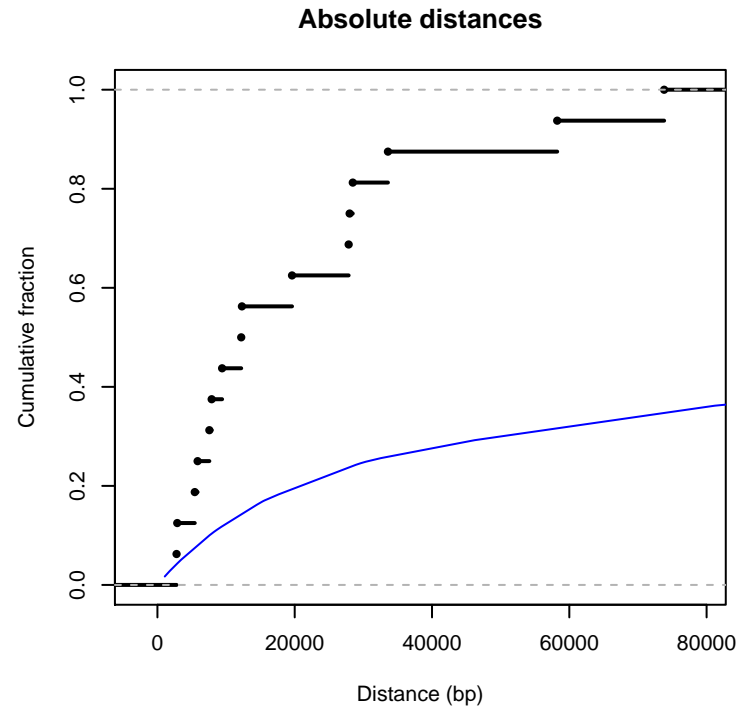
pcontig_031

Query population : 25
Reference population : 19
Relative Ks p-value : 0.00106483
Relative ecdf deviation area : 0.0870742
Relative ecdf area correlation : 0.344576
Relative ecdf deviation area p-value : <0.01
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 : 0.279676
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



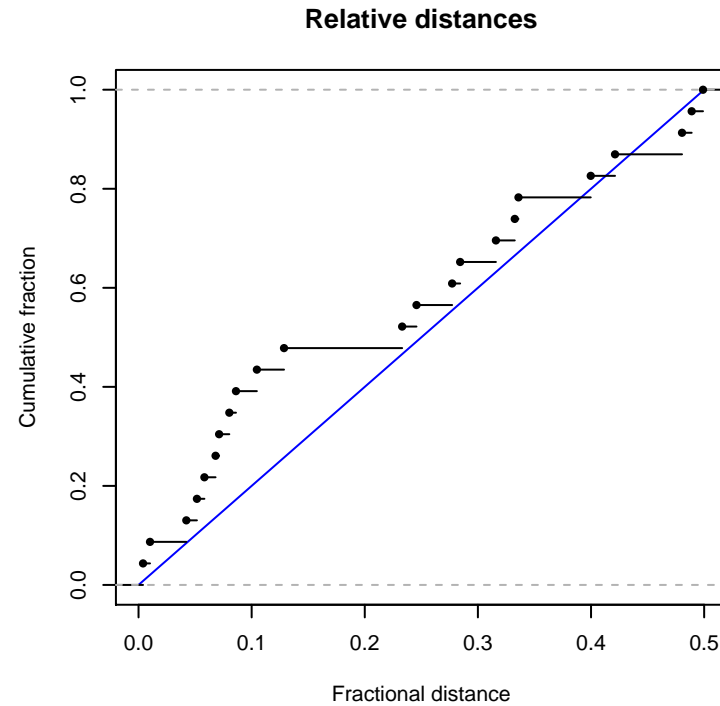
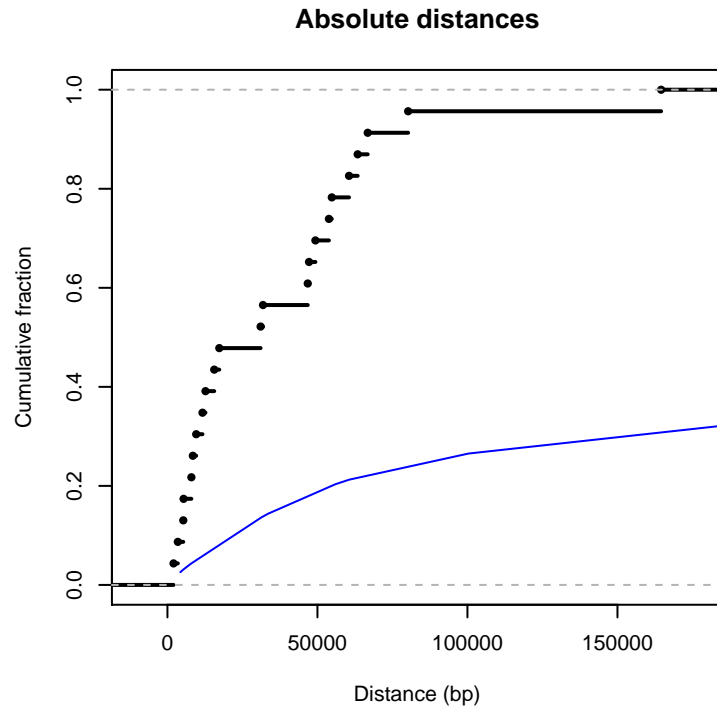
pcontig_033

Query population : 16
Reference population : 24
Relative Ks p-value : 0.564722
Relative ecdf deviation area : 0.022863
Relative ecdf area correlation : 0.0576475
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 : 0.38
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.250795
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



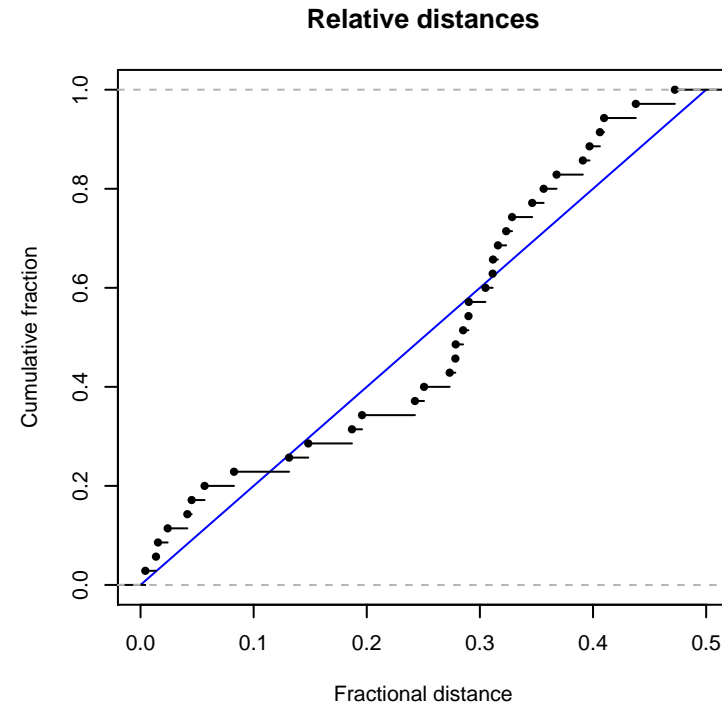
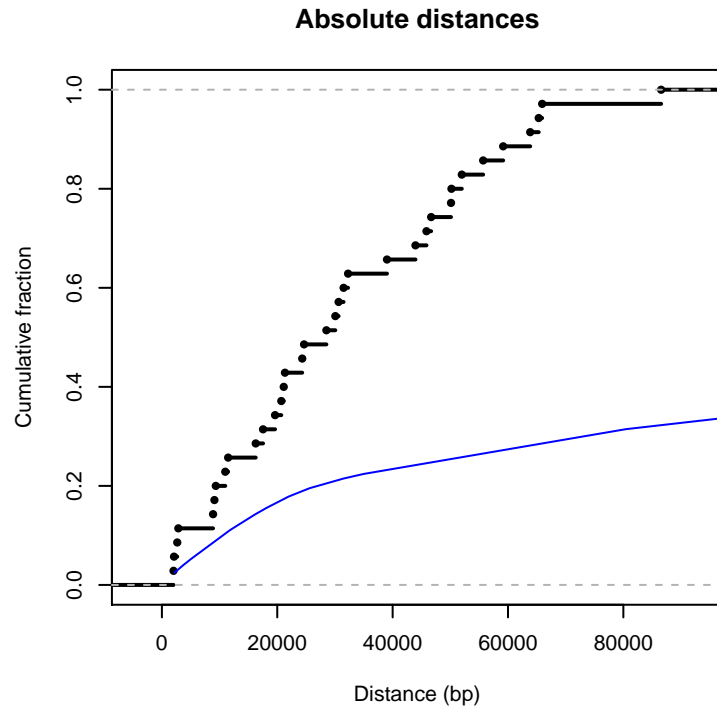
pcontig_034

Query population : 23
Reference population : 9
Relative Ks p-value : 0.164762
Relative ecdf deviation area : 0.0376457
Relative ecdf area correlation : 0.127081
Relative ecdf deviation area p-value : 0.24
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.27
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.202826
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



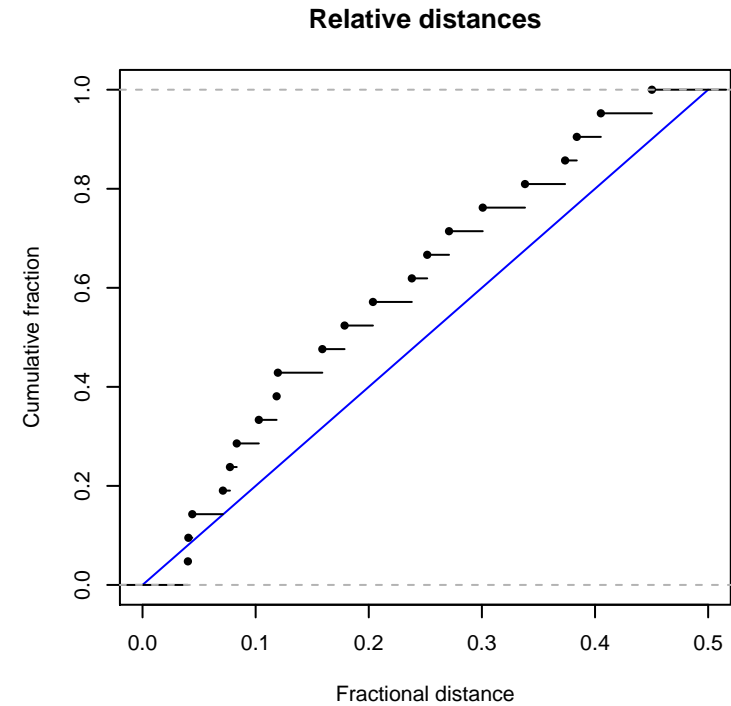
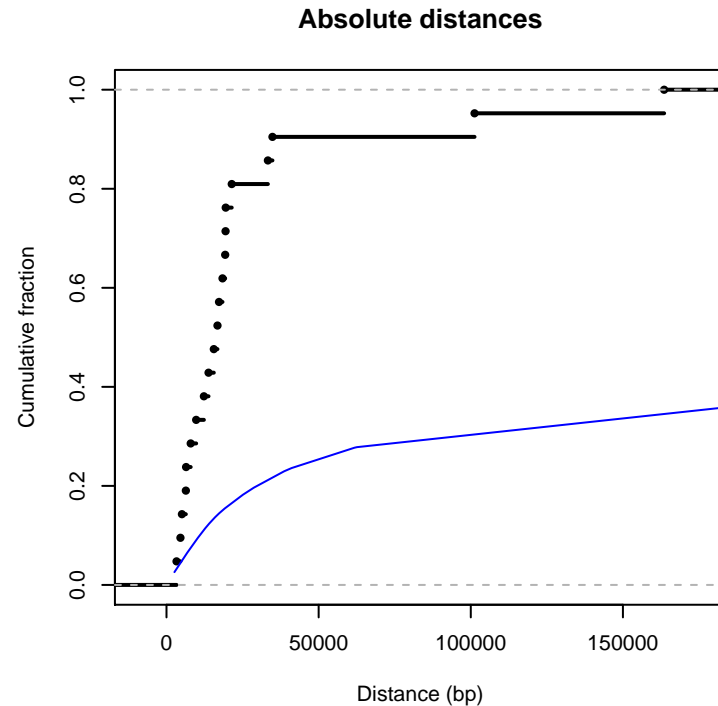
pcontig_035

Query population : 35
Reference population : 17
Relative Ks p-value : 0.401086
Relative ecdf deviation area : 0.0306525
Relative ecdf area correlation : 0.0155689
Relative ecdf deviation area p-value : 0.32
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.46
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.368066
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



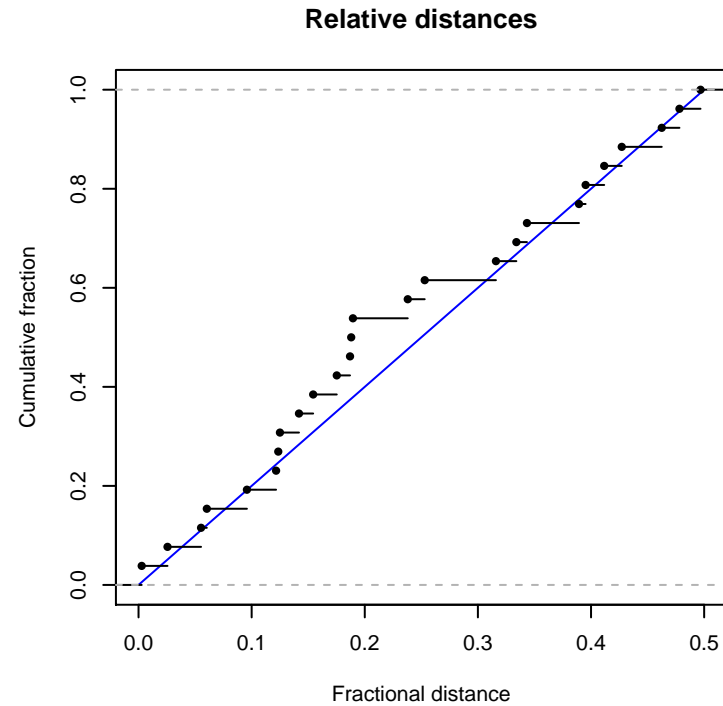
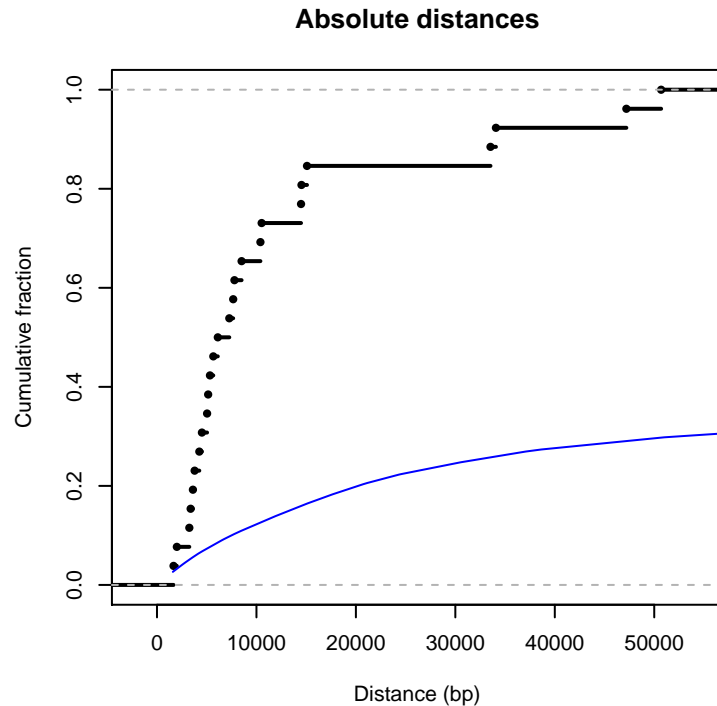
pcontig_036

Query population : 21
Reference population : 15
Relative Ks p-value : 0.390027
Relative ecdf deviation area : 0.0510552
Relative ecdf area correlation : 0.190315
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 : 0.31
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.224766
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



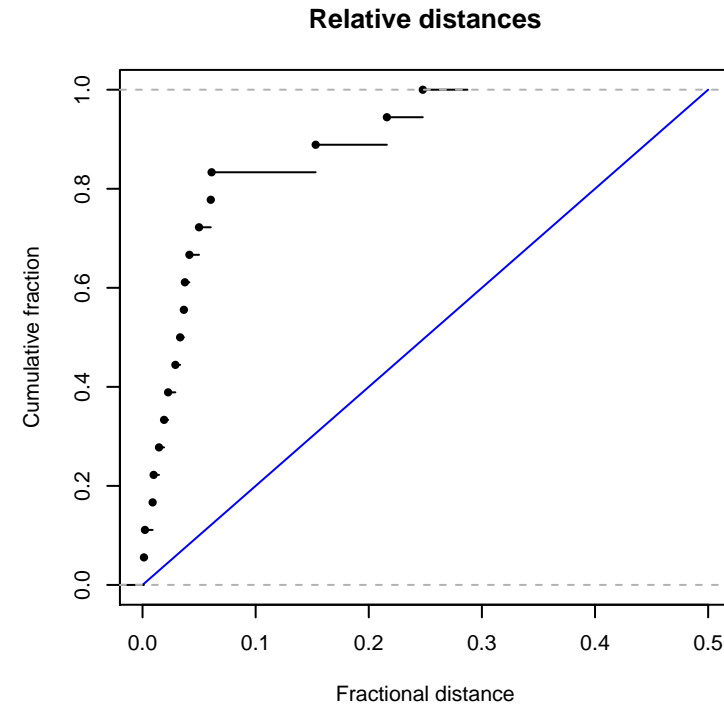
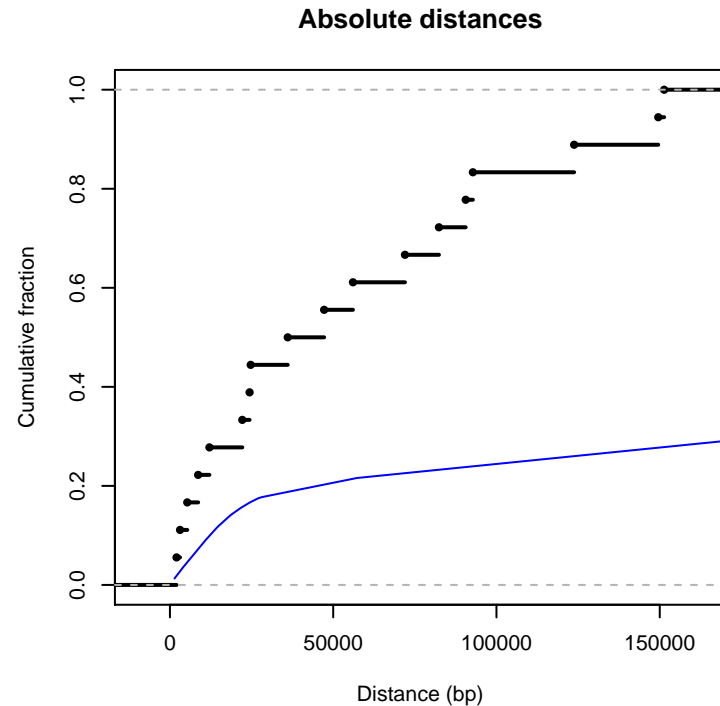
pcontig_037

Query population : 26
Reference population : 25
Relative Ks p-value : 0.475223
Relative ecdf deviation area : 0.0187837
Relative ecdf area correlation : 0.0475166
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 : 0.44
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.366513
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



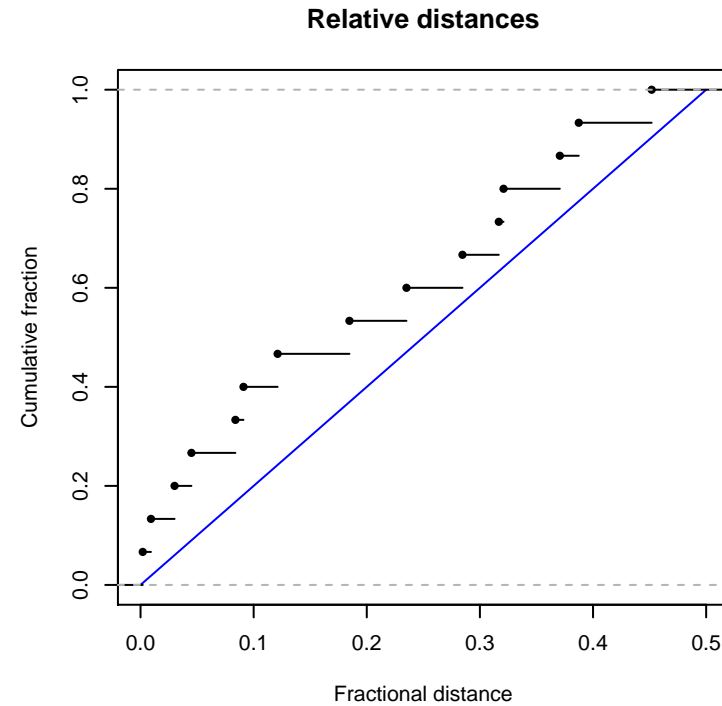
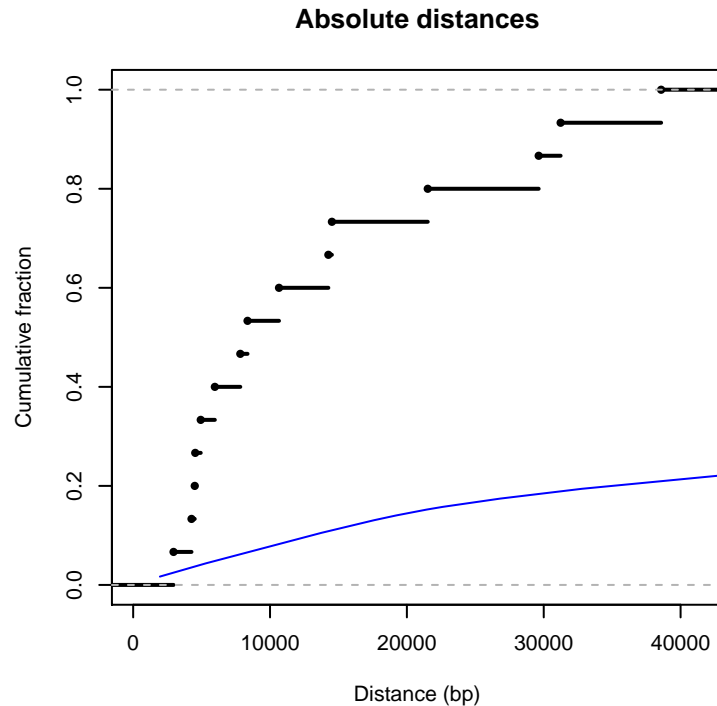
pcontig_039

Query population : 18
Reference population : 14
Relative Ks p-value : 1.04253e-09
Relative ecdf deviation area : 0.191606
Relative ecdf area correlation : 0.767947
Relative ecdf deviation area p-value : <0.01
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 : 0.306147
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



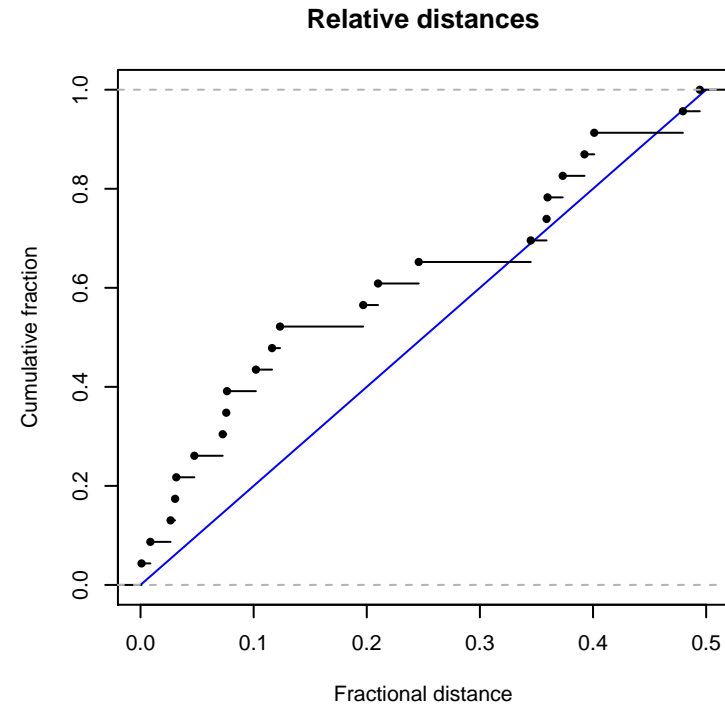
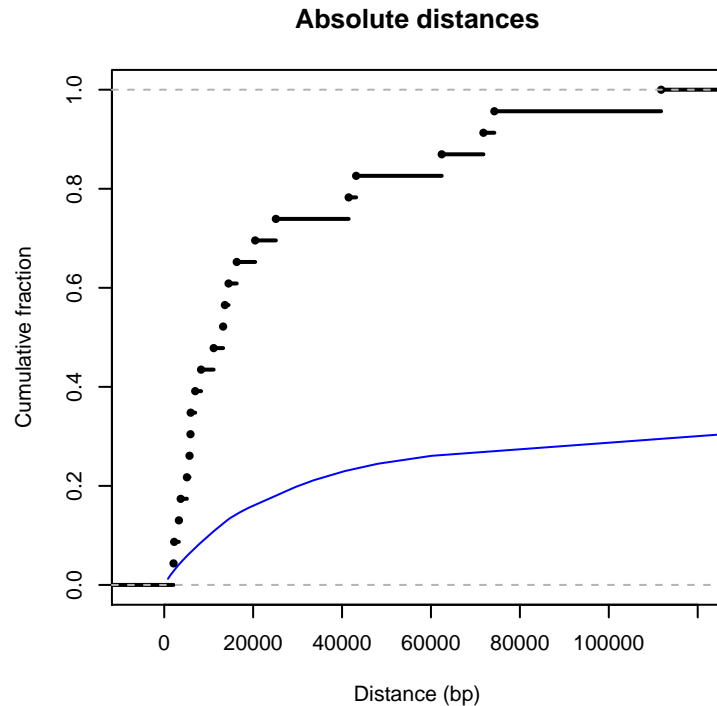
pcontig_040

Query population : 15
Reference population : 13
Relative Ks p-value : 0.380337
Relative ecdf deviation area : 0.0545933
Relative ecdf area correlation : 0.217551
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 : 0.12
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.114085
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



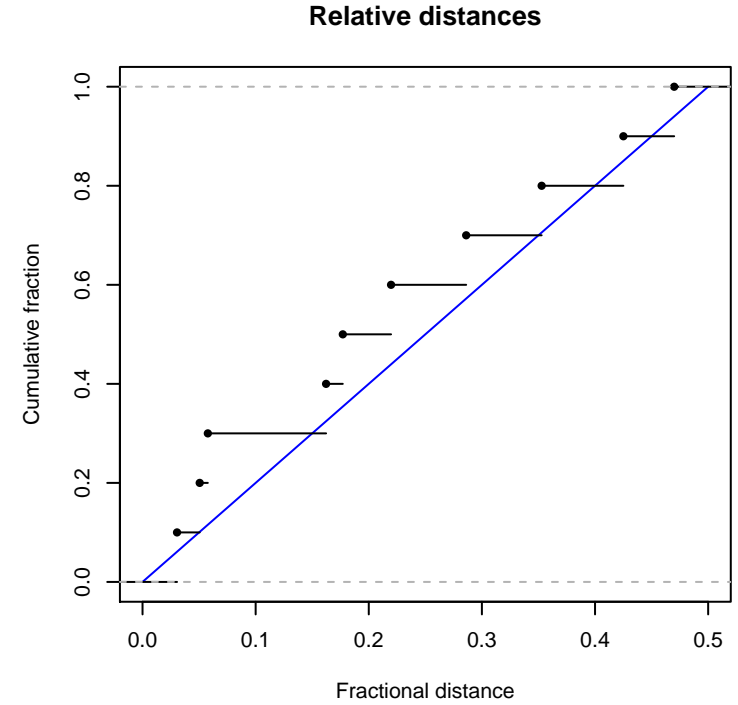
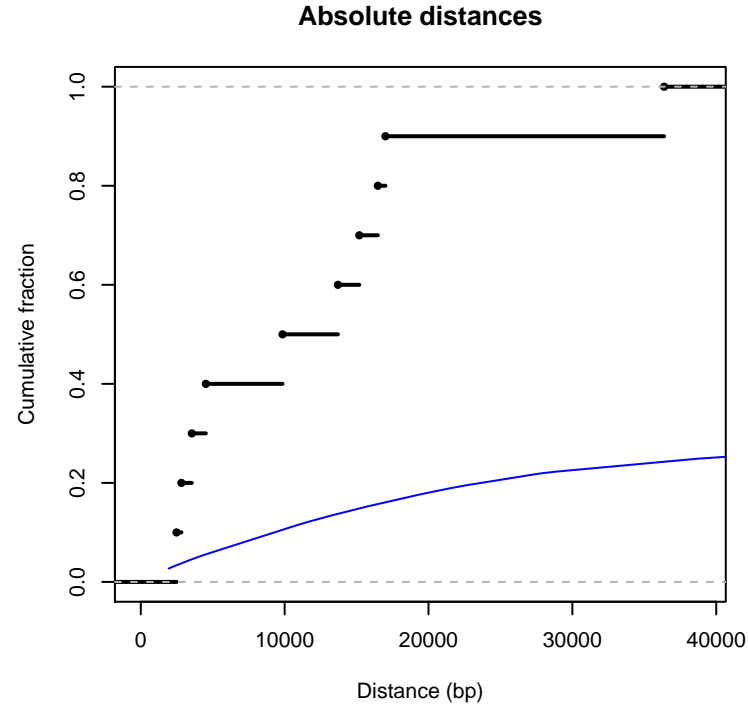
pcontig_041

Query population : 23
Reference population : 22
Relative Ks p-value : 0.0497341
Relative ecdf deviation area : 0.054061
Relative ecdf area correlation : 0.205345
Relative ecdf deviation area p-value : 0.06000000000000001
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.39
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.30997
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



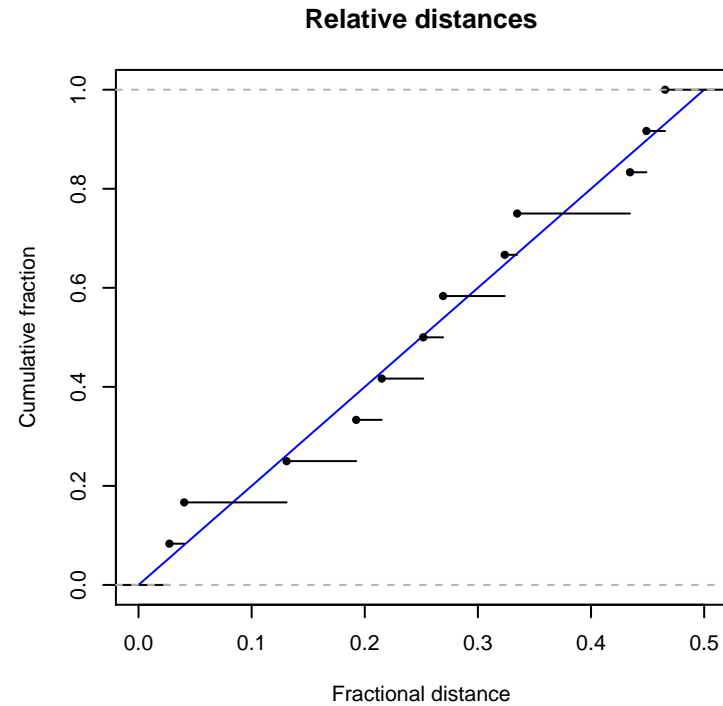
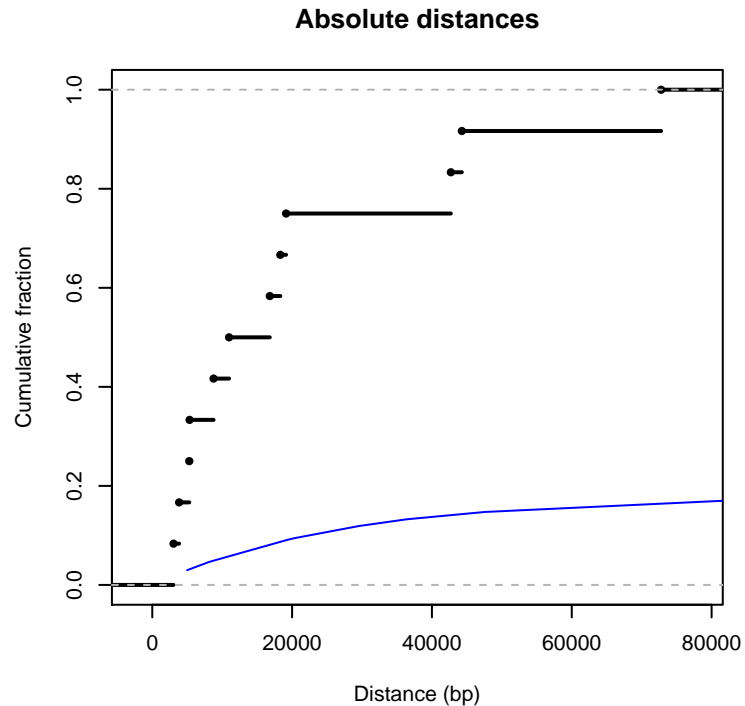
pcontig_042

Query population : 10
Reference population : 21
Relative Ks p-value : 0.82608
Relative ecdf deviation area : 0.0308933
Relative ecdf area correlation : 0.107308
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 : 0.22
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.14264
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



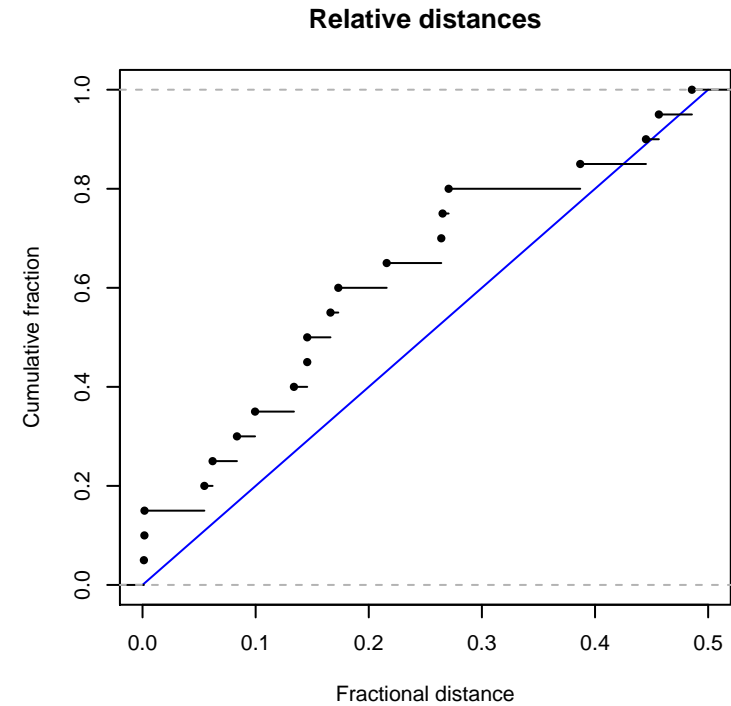
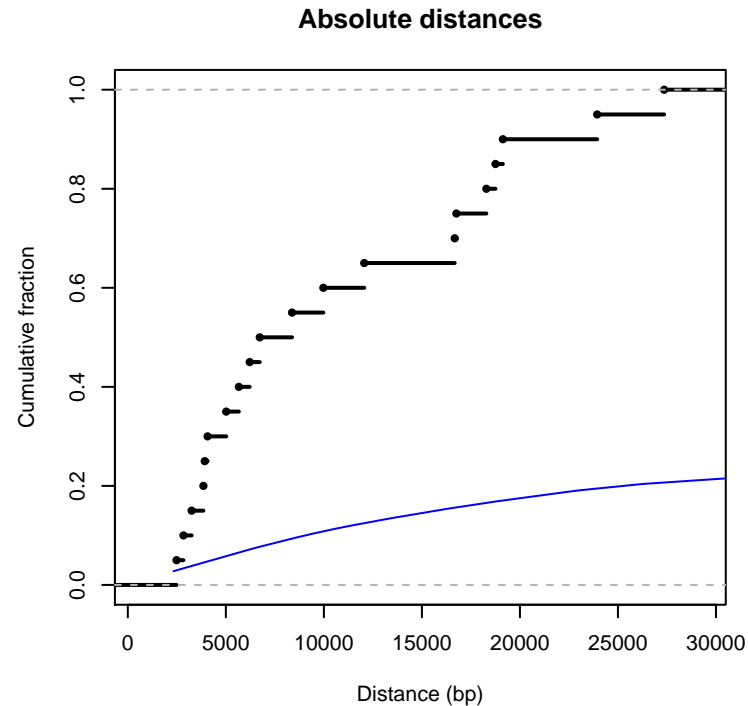
pcontig_043

Query population : 12
Reference population : 9
Relative Ks p-value : 0.960812
Relative ecdf deviation area : 0.022456
Relative ecdf area correlation : -0.0447544
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 : 0.17
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.104361
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



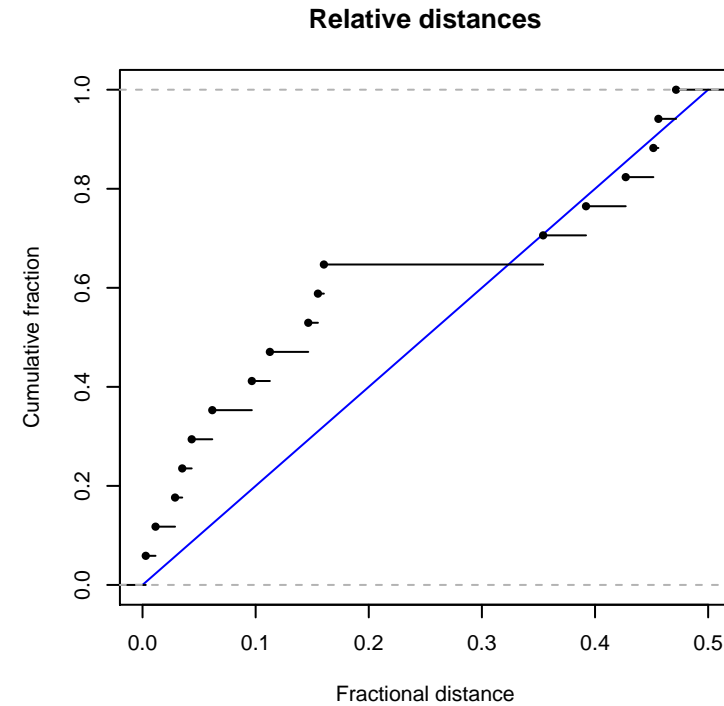
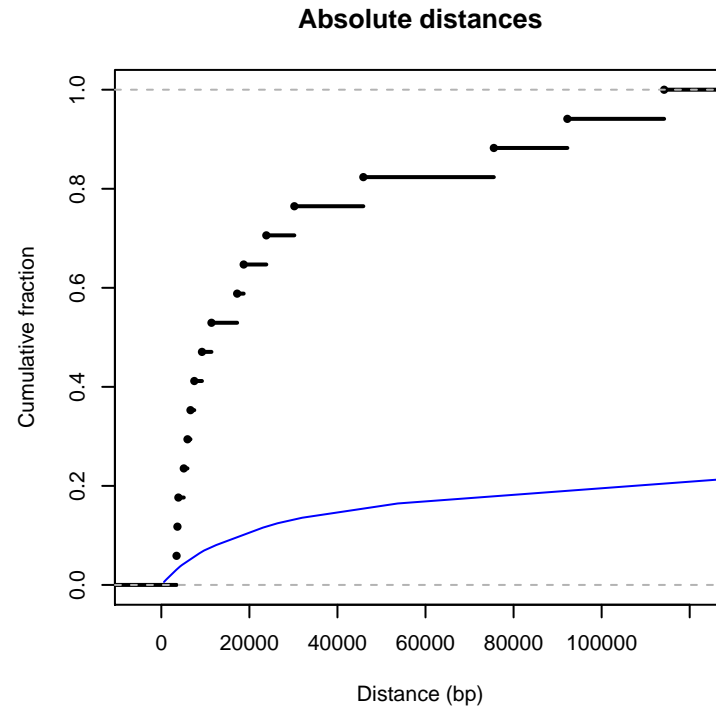
pcontig_044

Query population : 20
Reference population : 18
Relative Ks p-value : 0.113945
Relative ecdf deviation area : 0.0579625
Relative ecdf area correlation : 0.228368
Relative ecdf deviation area p-value : 0.11
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.33
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.224973
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_045

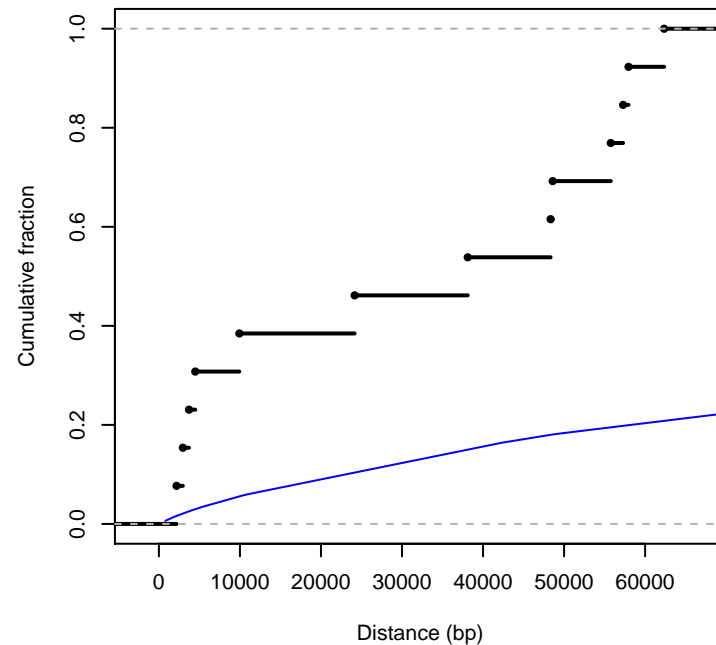
Query population : 17
Reference population : 15
Relative Ks p-value : 0.041006
Relative ecdf deviation area : 0.0615177
Relative ecdf area correlation : 0.198349
Relative ecdf deviation area p-value : 0.06000000000000001
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.22
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.160717
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



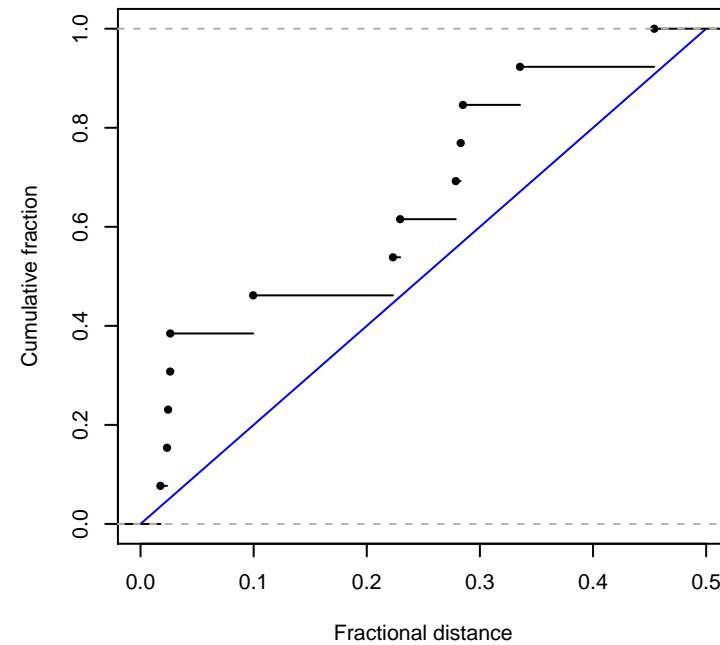
pcontig_046

Query population : 13
Reference population : 12
Relative Ks p-value : 0.0886612
Relative ecdf deviation area : 0.0732758
Relative ecdf area correlation : 0.290362
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 : 0.16
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.125425
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

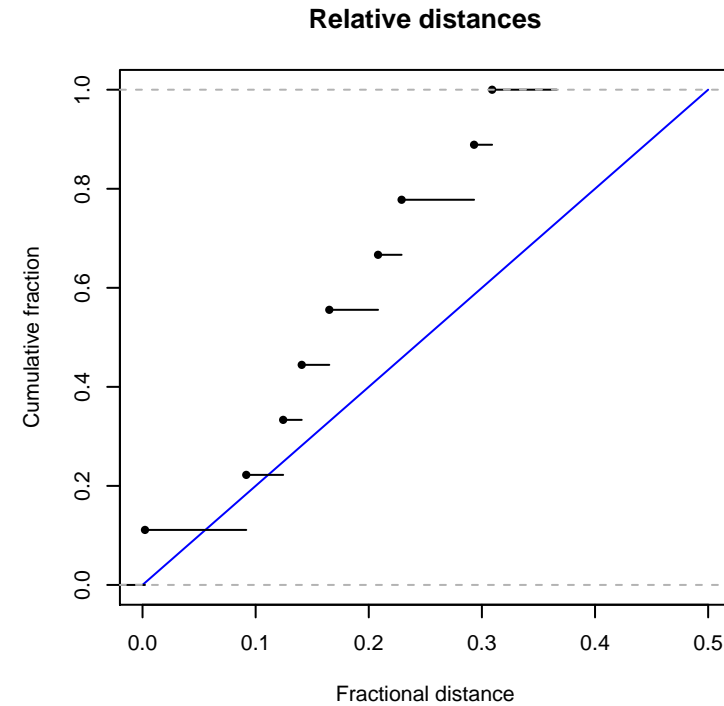
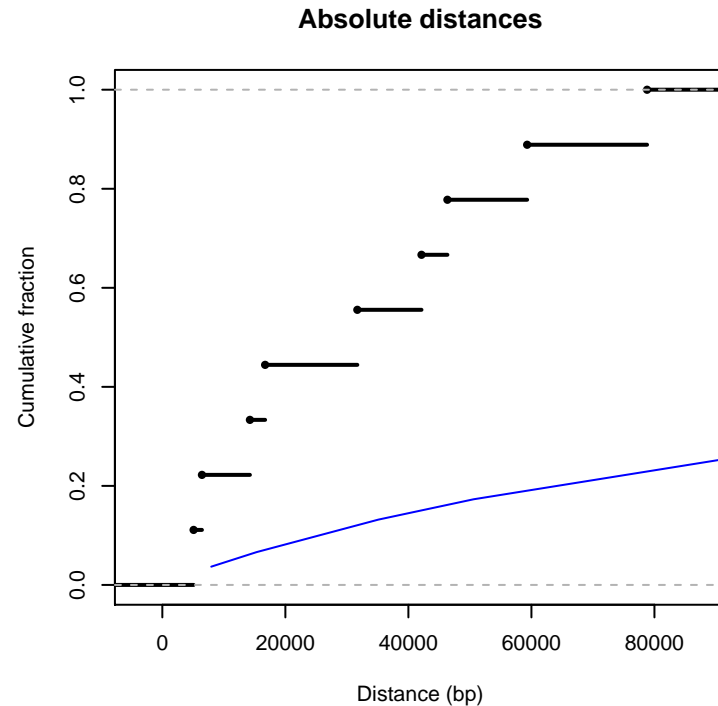


Relative distances



pcontig_047

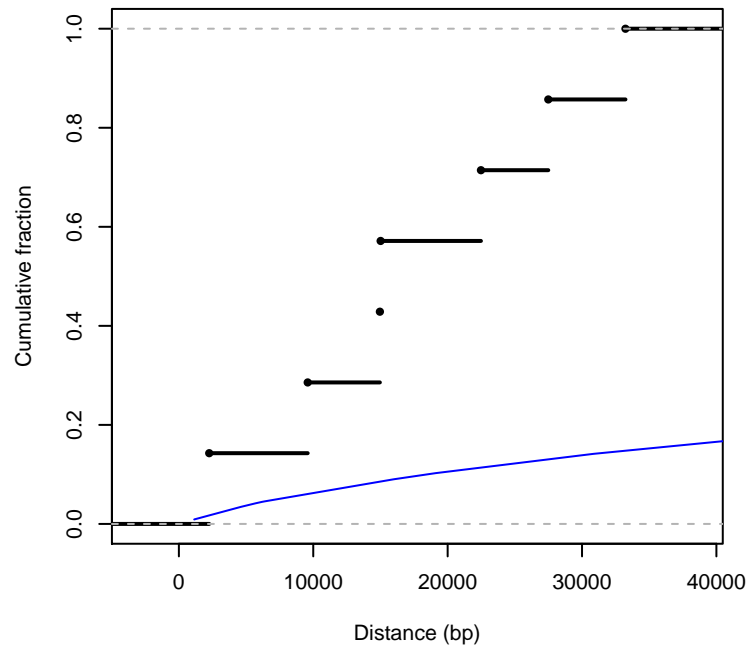
Query population : 9
Reference population : 7
Relative Ks p-value : 0.108786
Relative ecdf deviation area : 0.0794636
Relative ecdf area correlation : 0.305196
Relative ecdf deviation area p-value : 0.13
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0328347
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



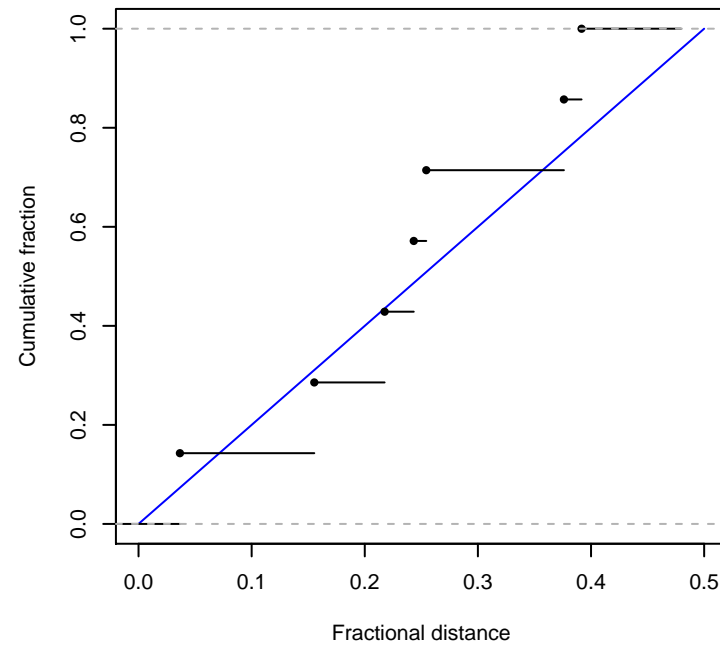
pcontig_048

Query population : 7
Reference population : 12
Relative Ks p-value : 0.834486
Relative ecdf deviation area : 0.0406416
Relative ecdf area correlation : 0.0429599
Relative ecdf deviation area p-value : 0.78
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0497536
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

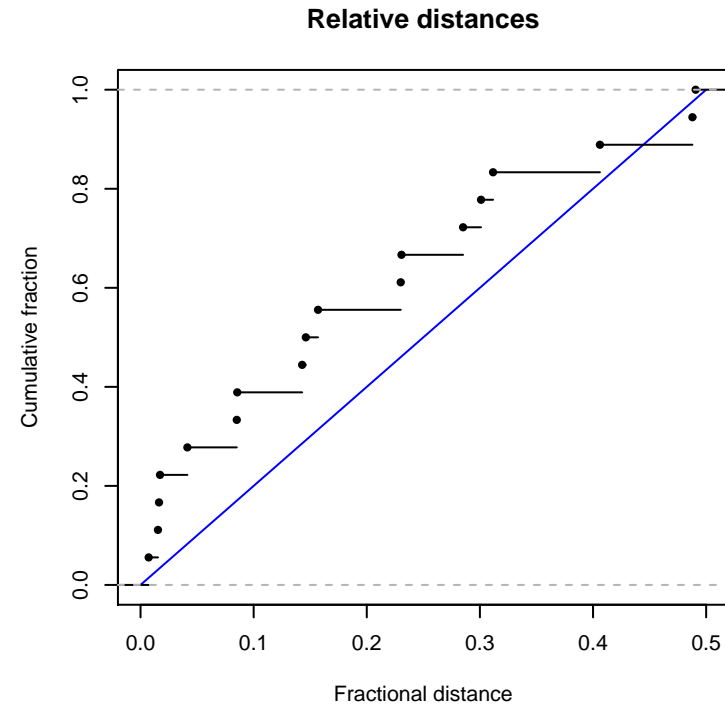
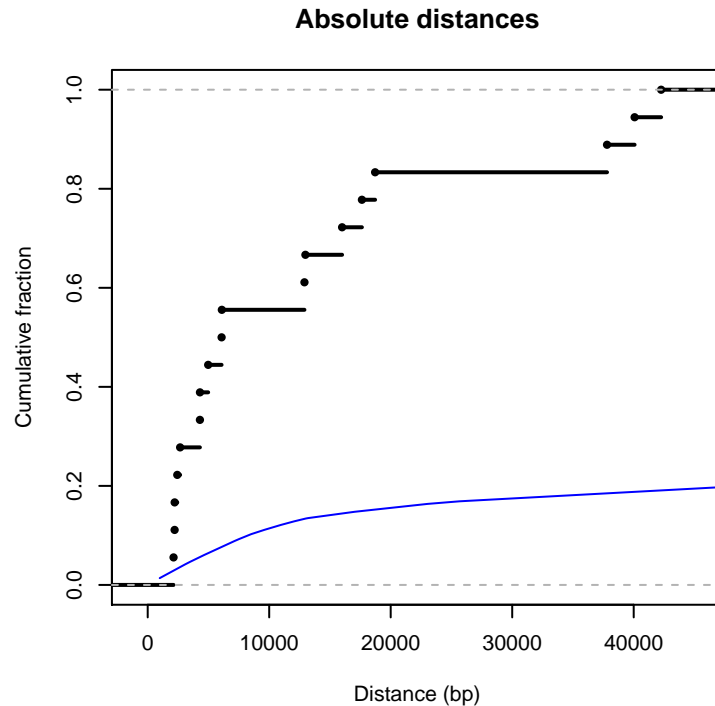


Relative distances



pcontig_049

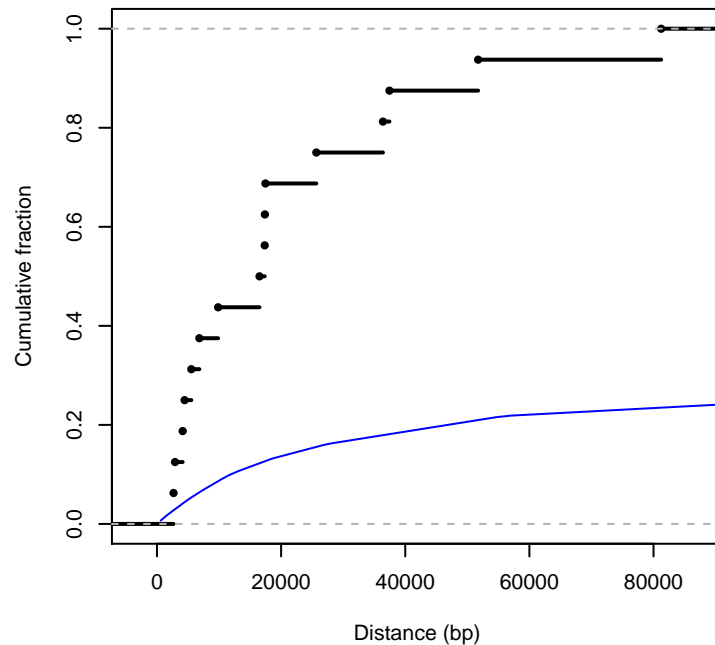
Query population : 18
Reference population : 21
Relative Ks p-value : 0.207026
Relative ecdf deviation area : 0.0619388
Relative ecdf area correlation : 0.231741
Relative ecdf deviation area p-value : 0.08
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.44
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.308139
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



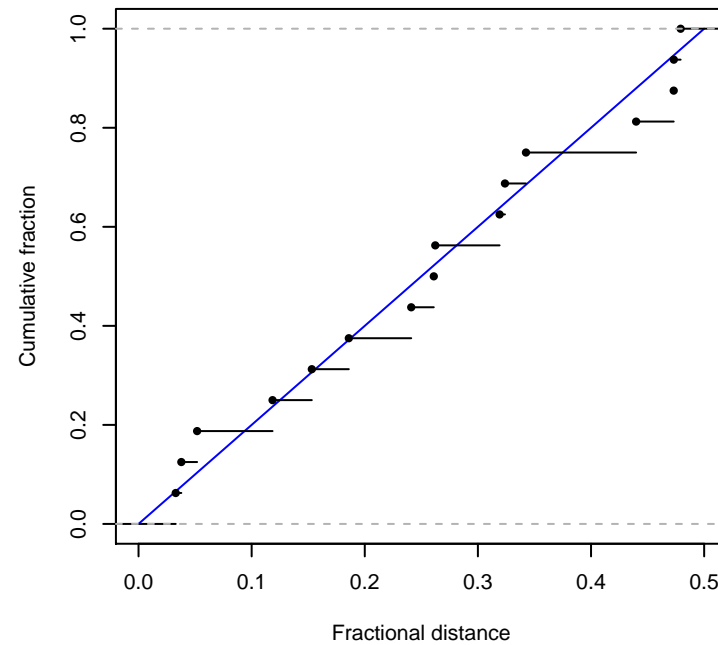
pcontig_050

Query population : 16
Reference population : 17
Relative Ks p-value : 0.901928
Relative ecdf deviation area : 0.020751
Relative ecdf area correlation : -0.0488424
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 : 0.31
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.20781
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

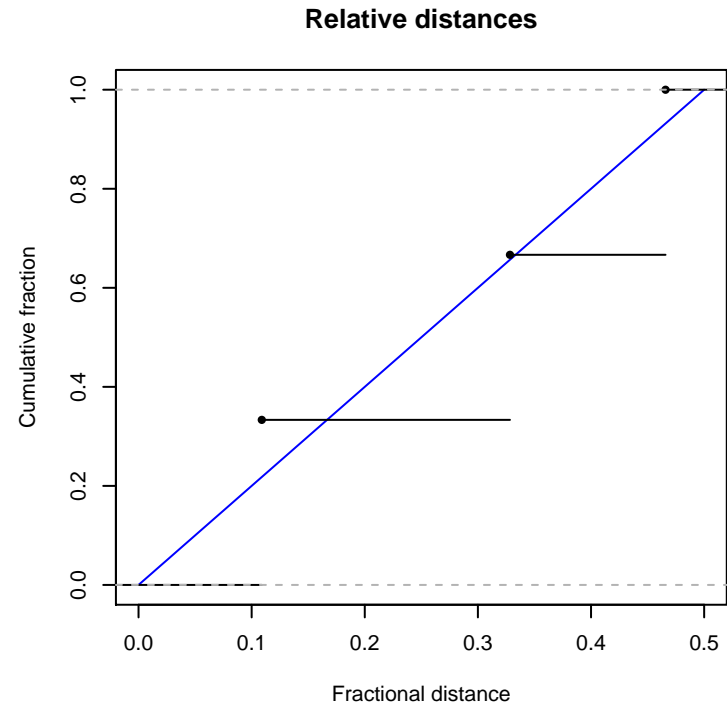
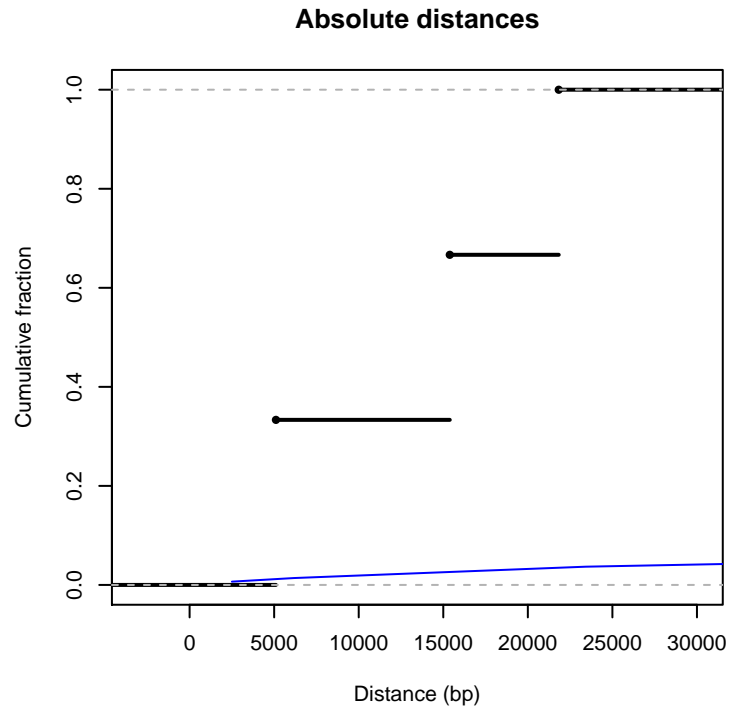


Relative distances



pcontig_051

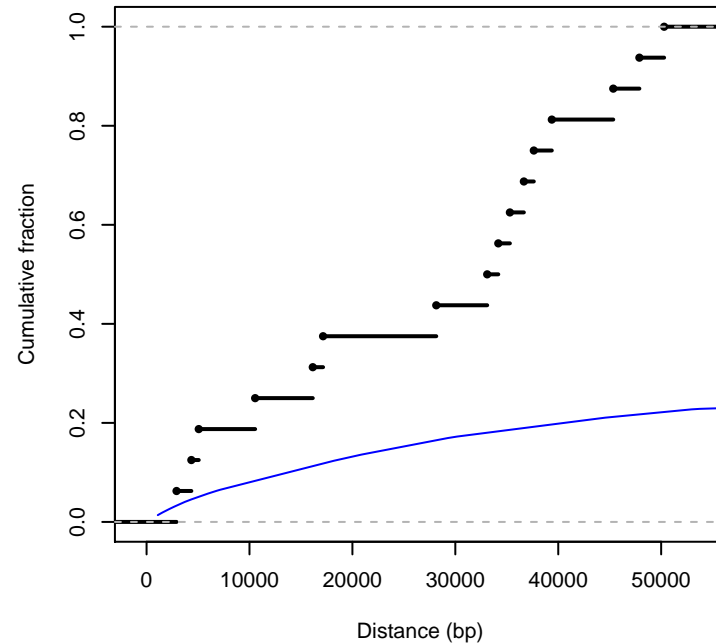
Query population : 3
Reference population : 4
Relative Ks p-value : 0.815286
Relative ecdf deviation area : 0.0604686
Relative ecdf area correlation : -0.20426
Relative ecdf deviation area p-value : 0.8
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0103715
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



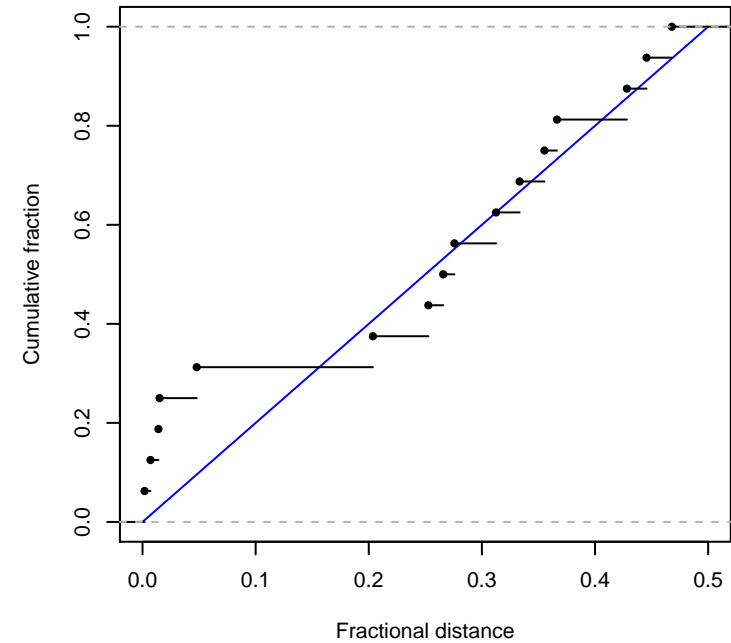
pcontig_052

Query population : 16
Reference population : 19
Relative Ks p-value : 0.367166
Relative ecdf deviation area : 0.032673
Relative ecdf area correlation : 0.0517981
Relative ecdf deviation area p-value : 0.55
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.38
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.242417
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

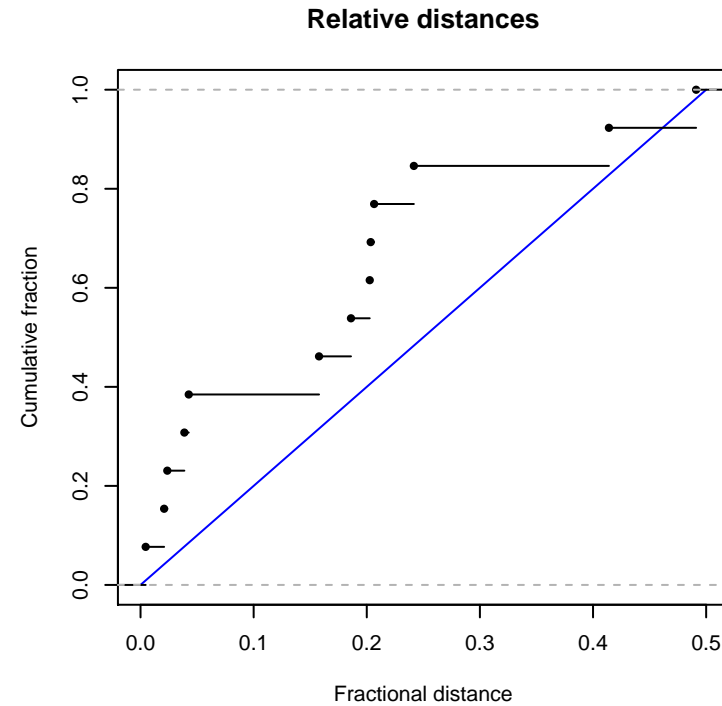
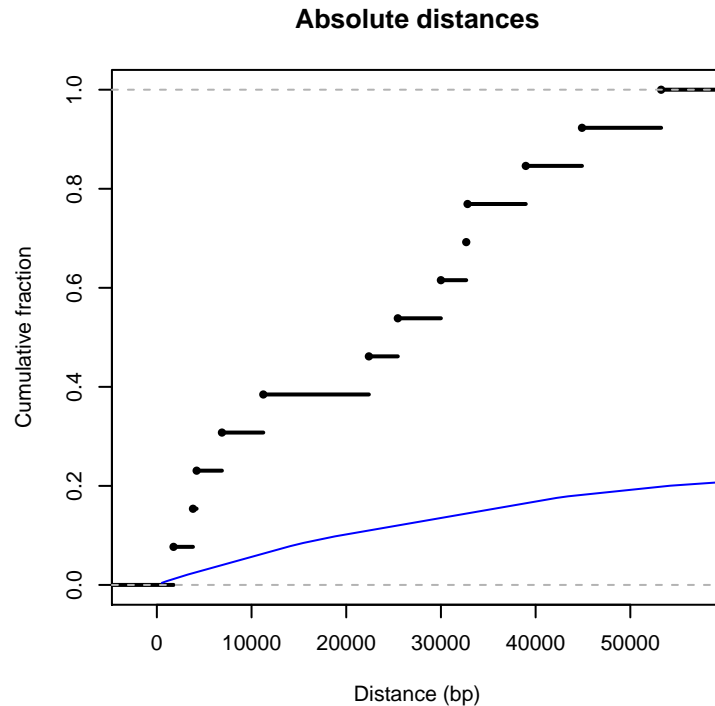


Relative distances



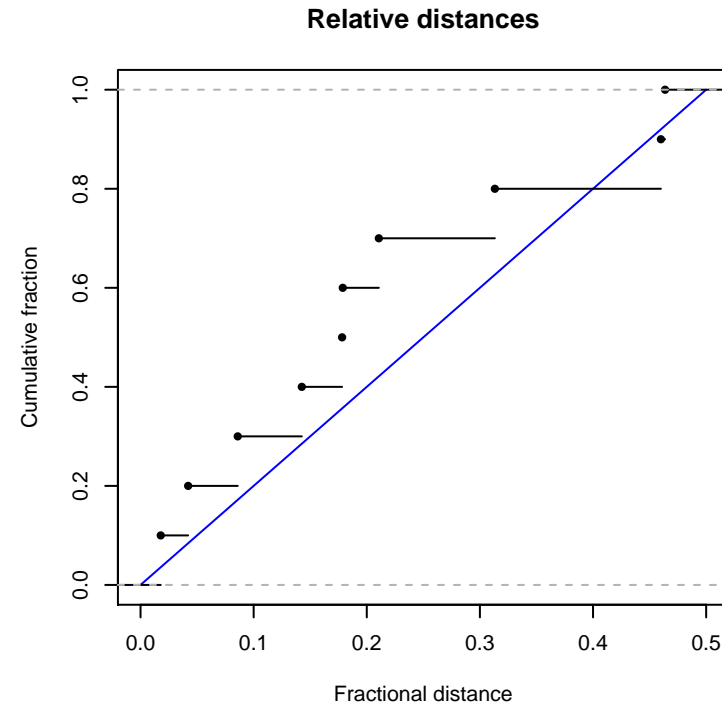
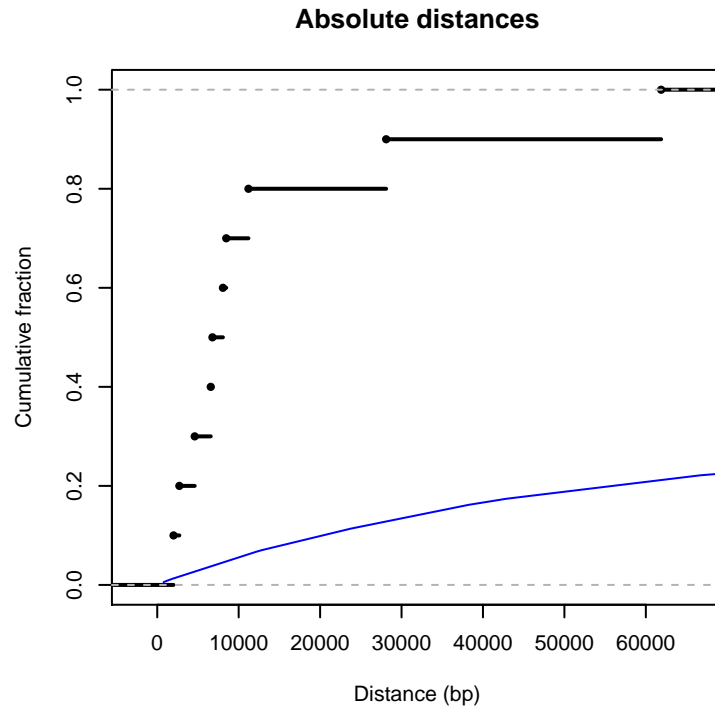
pcontig_054

Query population : 13
Reference population : 12
Relative Ks p-value : 0.0485055
Relative ecdf deviation area : 0.0798497
Relative ecdf area correlation : 0.312716
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 : 0.09
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0836349
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



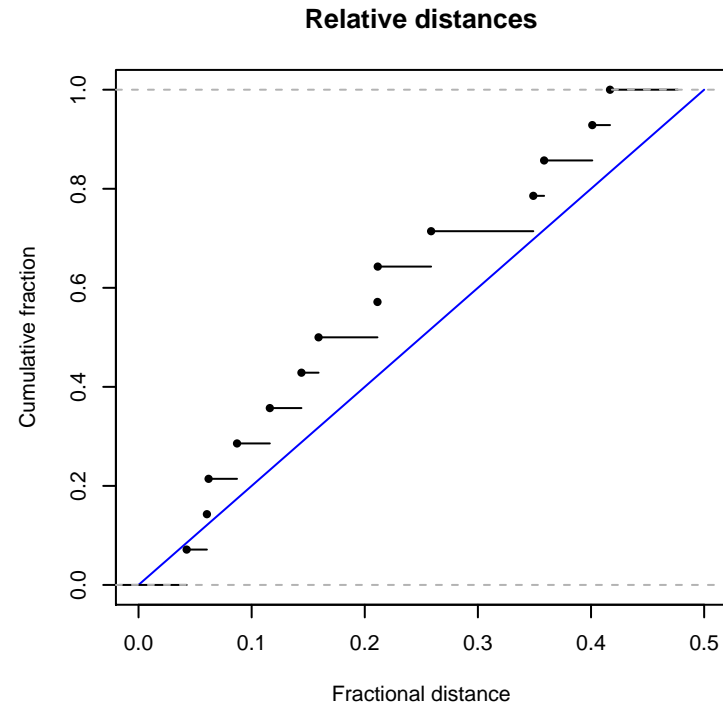
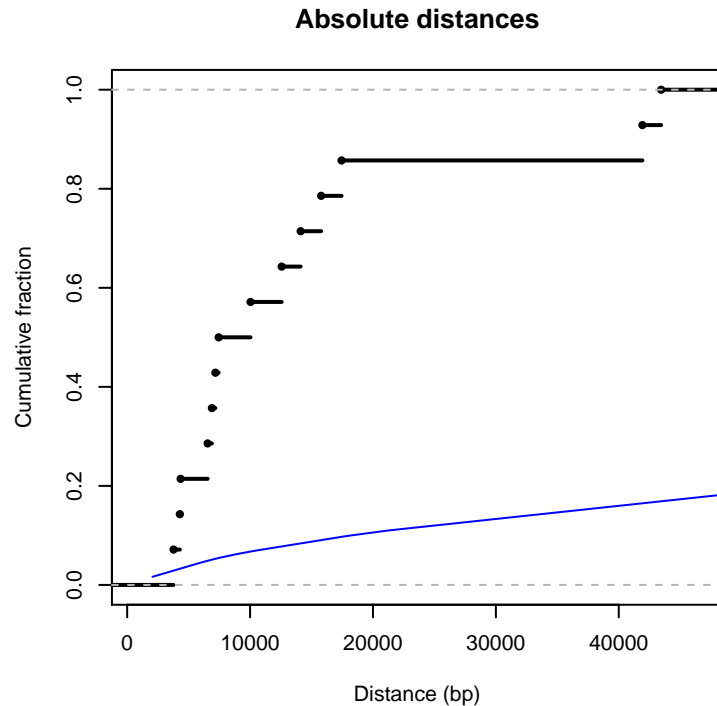
pcontig_055

Query population : 10
Reference population : 11
Relative Ks p-value : 0.351666
Relative ecdf deviation area : 0.048589
Relative ecdf area correlation : 0.162797
Relative ecdf deviation area p-value : 0.45
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.11
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.081444
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



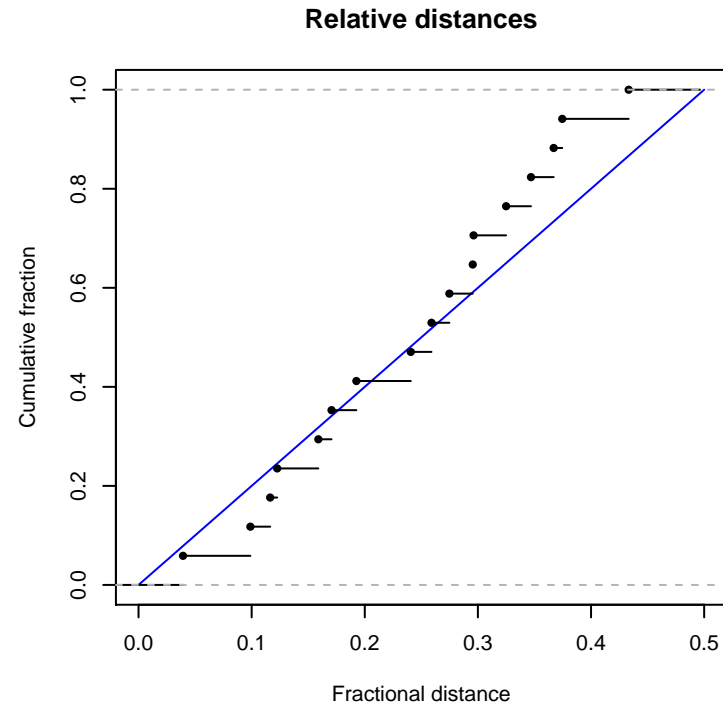
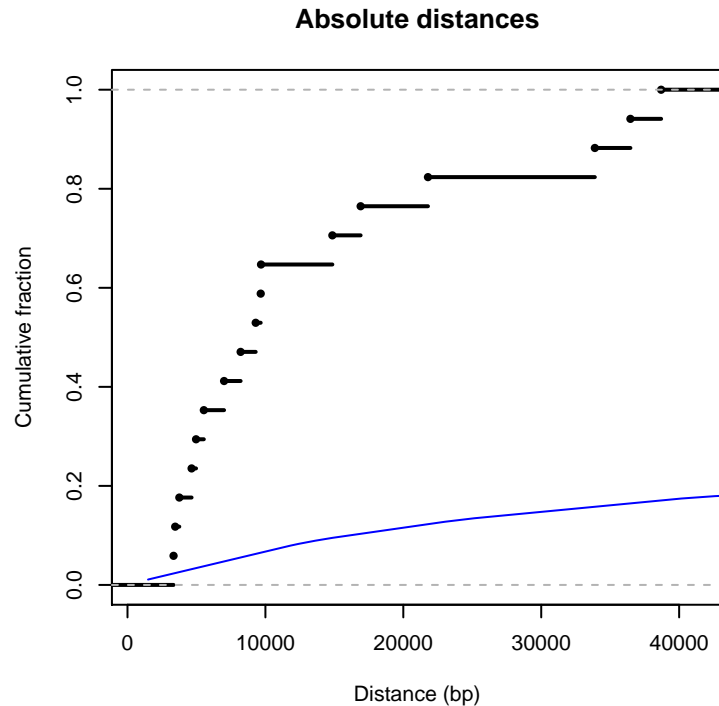
pcontig_056

Query population : 14
Reference population : 12
Relative Ks p-value : 0.44422
Relative ecdf deviation area : 0.0492762
Relative ecdf area correlation : 0.177734
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 : 0.23
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.22297
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



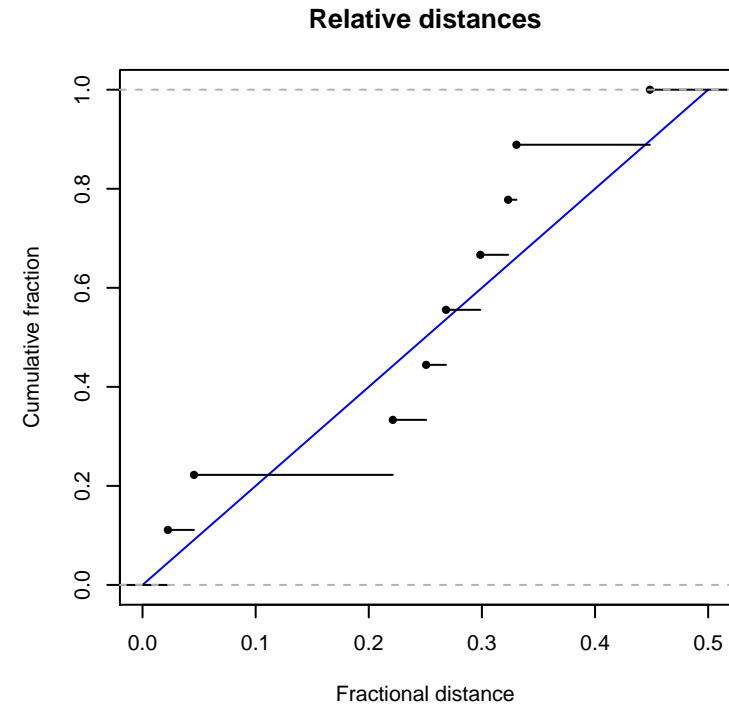
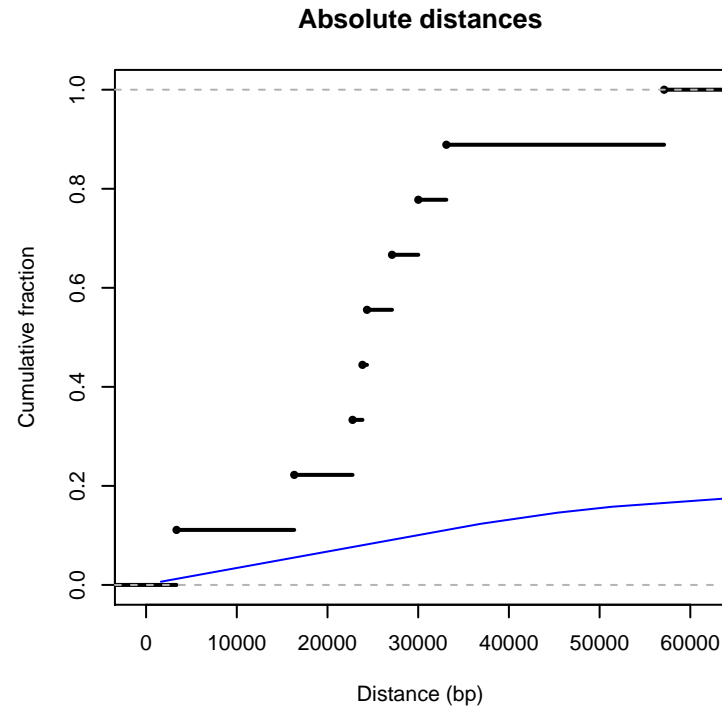
pcontig_057

Query population : 17
Reference population : 11
Relative Ks p-value : 0.497832
Relative ecdf deviation area : 0.0331283
Relative ecdf area correlation : 0.032479
Relative ecdf deviation area p-value : 0.47
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.22
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.154861
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



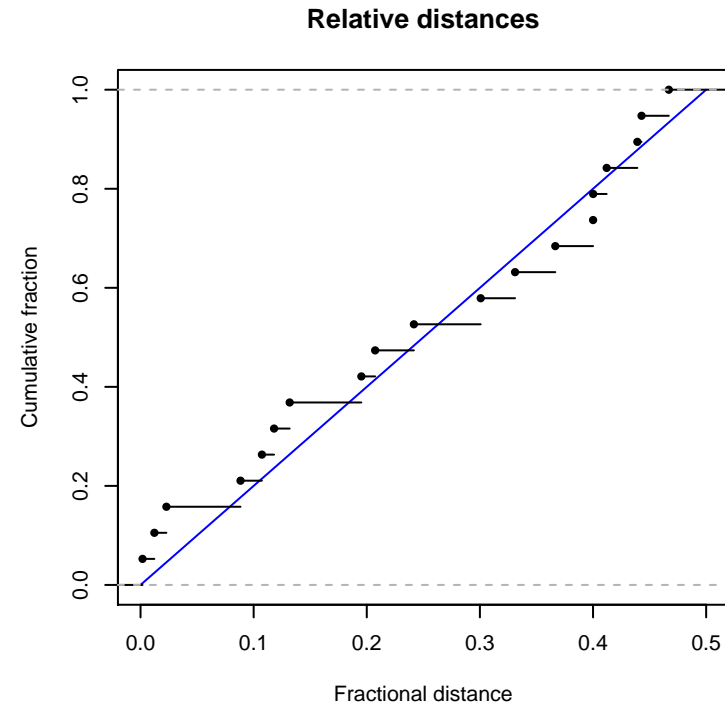
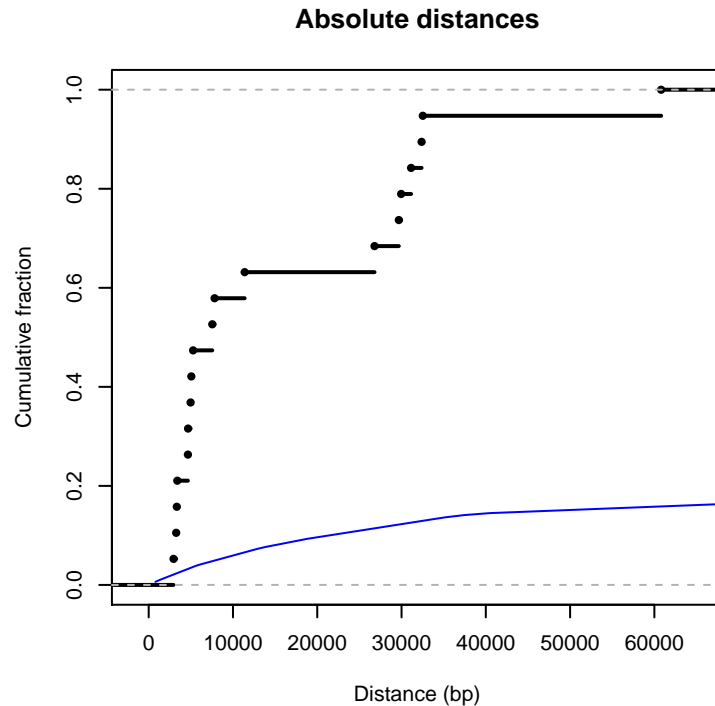
pcontig_058

Query population : 9
Reference population : 6
Relative Ks p-value : 0.658957
Relative ecdf deviation area : 0.0413921
Relative ecdf area correlation : 0.0182404
Relative ecdf deviation area p-value : 0.53
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 : 0.0384815
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_059

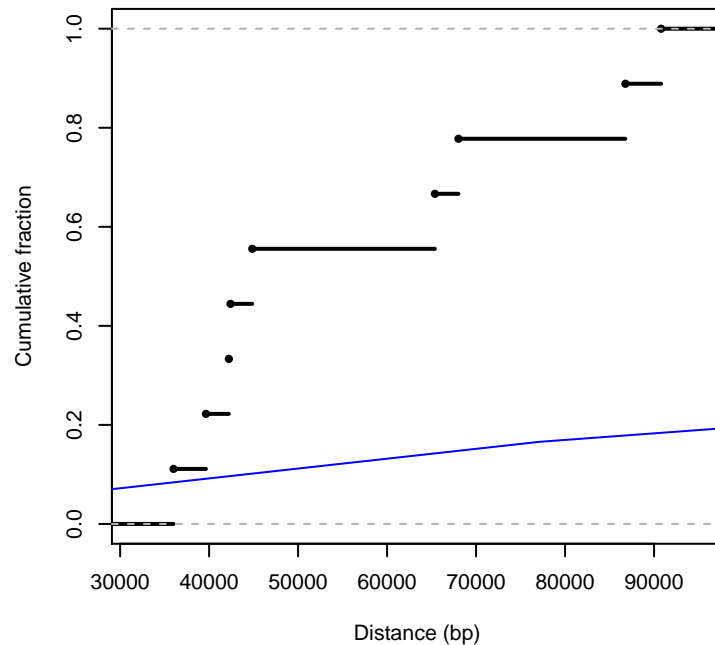
Query population : 19
Reference population : 12
Relative Ks p-value : 0.935087
Relative ecdf deviation area : 0.0213568
Relative ecdf area correlation : 0.013363
Relative ecdf deviation area p-value : 0.85
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.19
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.17065
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



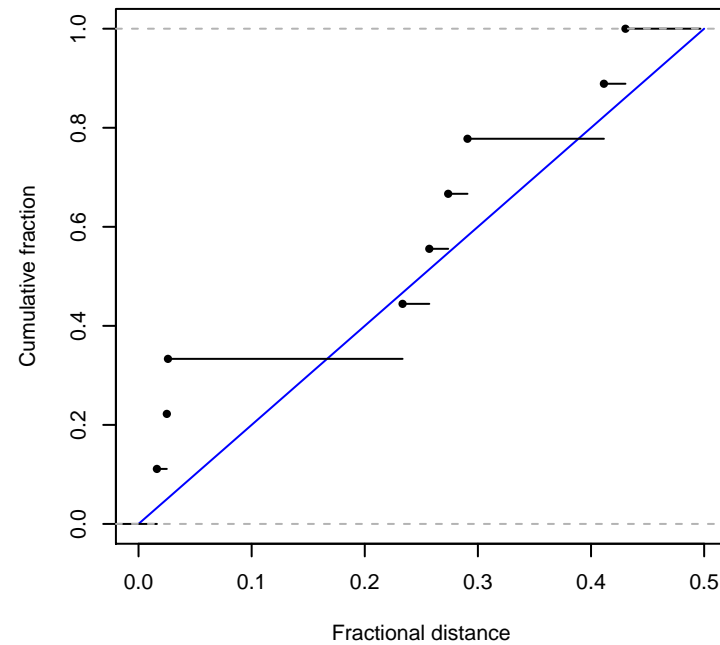
pcontig_060

Query population : 9
Reference population : 5
Relative Ks p-value : 0.400265
Relative ecdf deviation area : 0.0446268
Relative ecdf area correlation : 0.127074
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 : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0430921
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

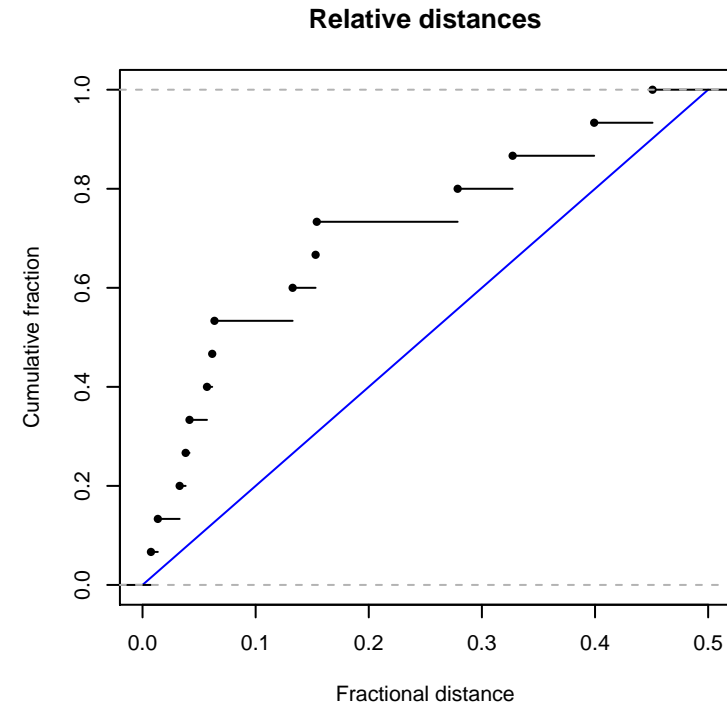
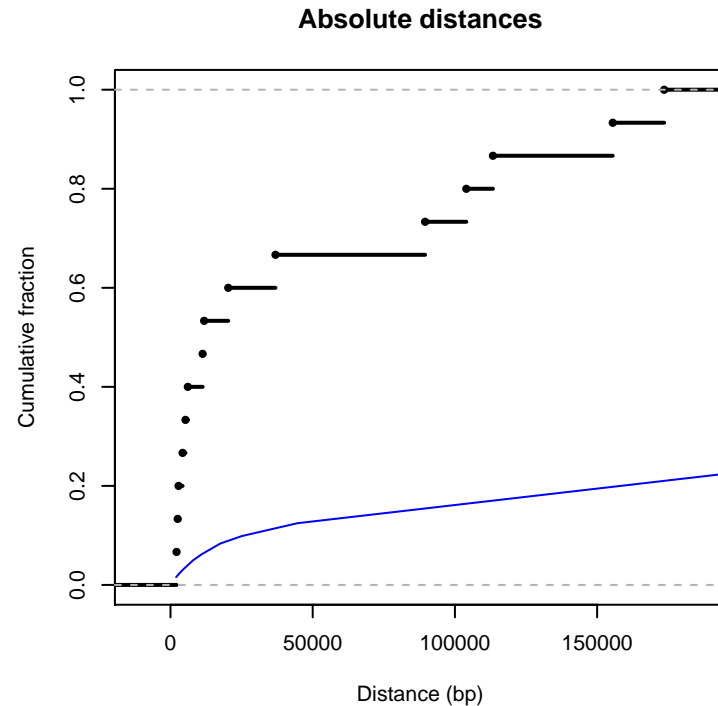


Relative distances



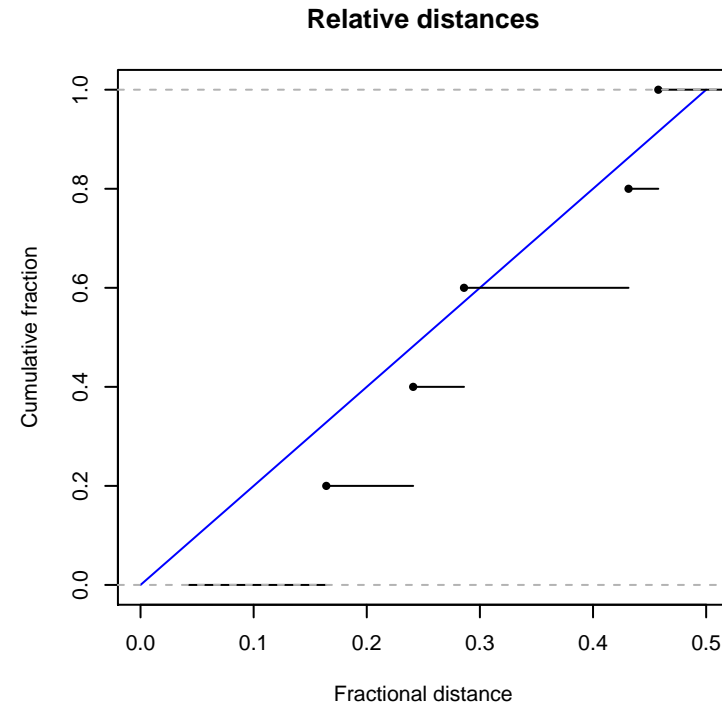
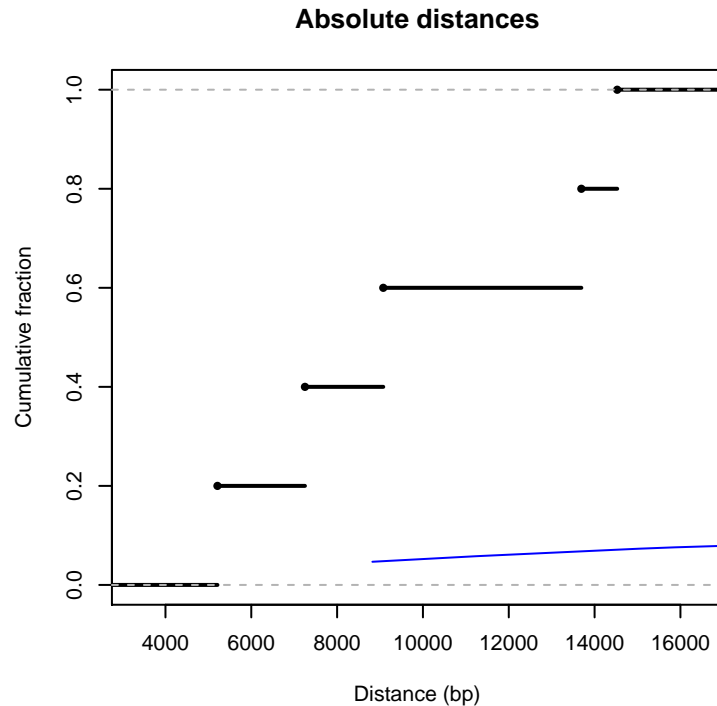
pcontig_062

Query population : 15
Reference population : 12
Relative Ks p-value : 0.00561057
Relative ecdf deviation area : 0.102582
Relative ecdf area correlation : 0.41037
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.26
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.154561
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



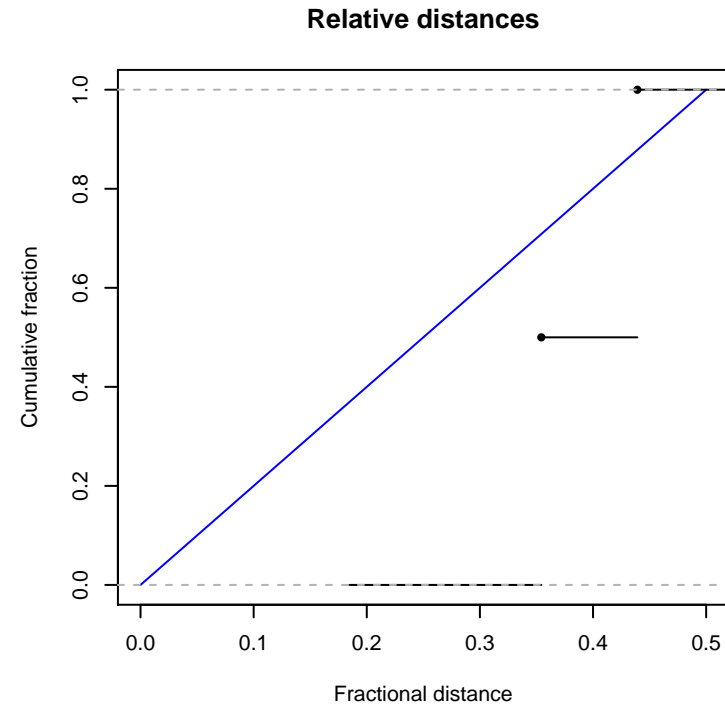
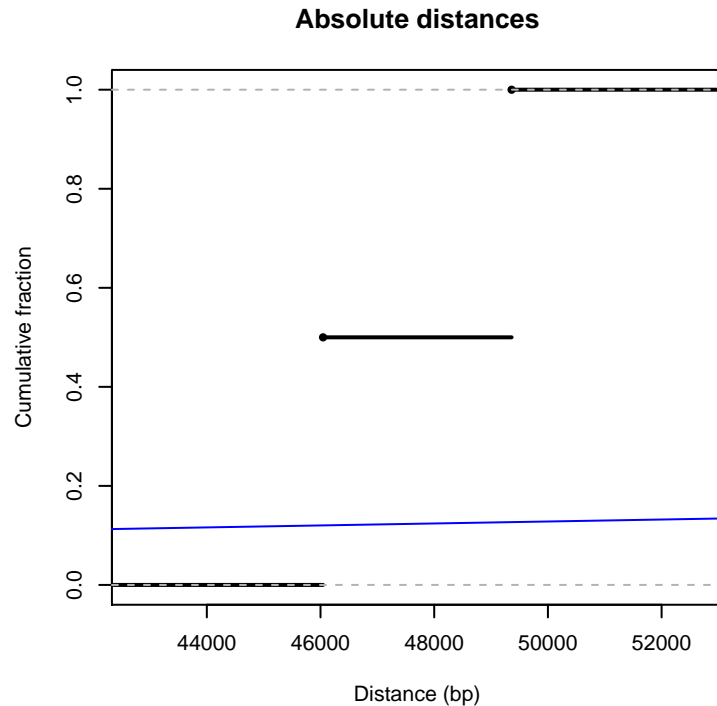
pcontig_064

Query population : 5
Reference population : 8
Relative Ks p-value : 0.552033
Relative ecdf deviation area : 0.0701695
Relative ecdf area correlation : -0.264218
Relative ecdf deviation area p-value : 0.37
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0280817
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



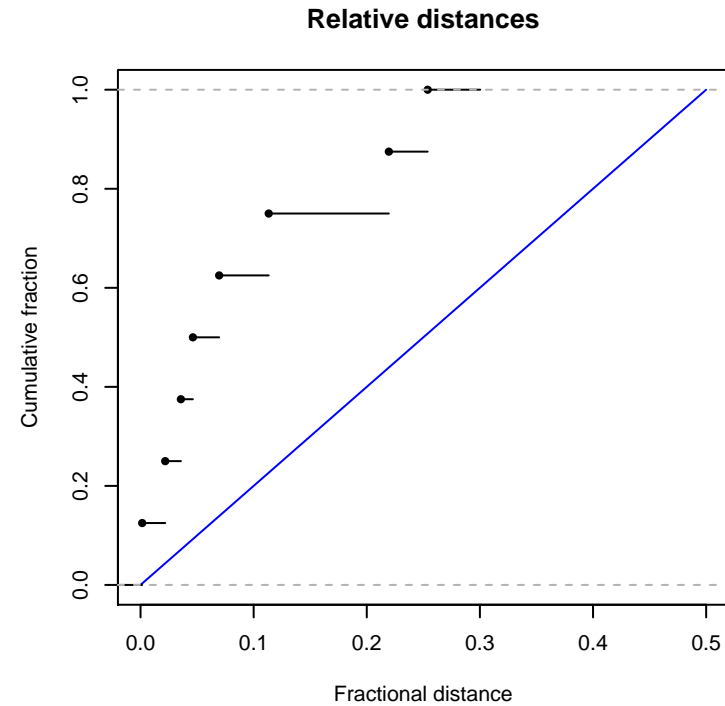
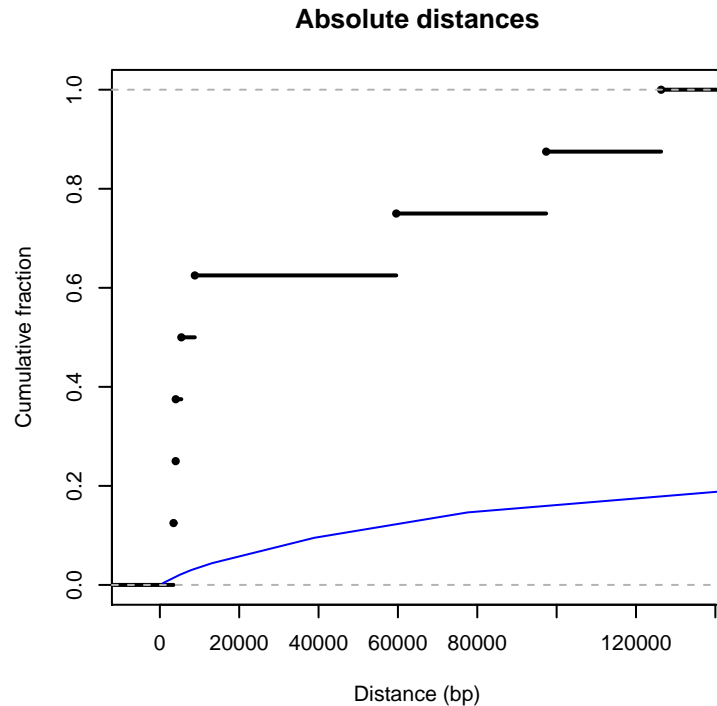
pcontig_065

Query population : 2
Reference population : 8
Relative Ks p-value : 0.169898
Relative ecdf deviation area : 0.153746
Relative ecdf area correlation : -0.586901
Relative ecdf deviation area p-value : 0.18
Scaled Absolute min. distance p-value : 0.05
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0145616
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



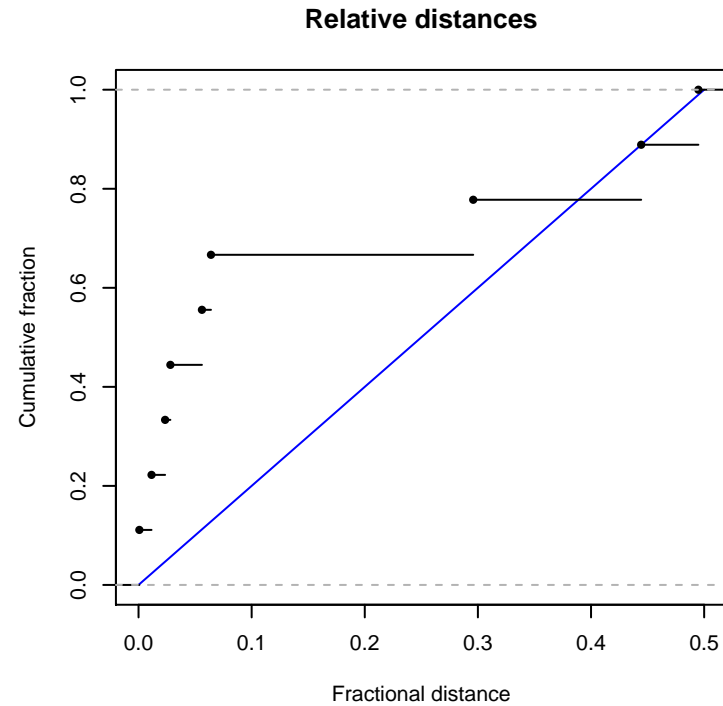
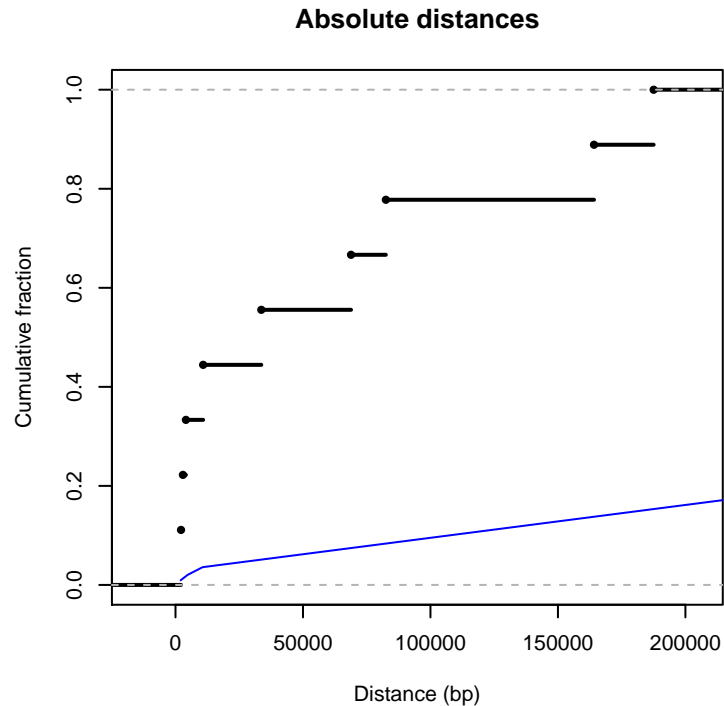
pcontig_066

Query population : 8
Reference population : 7
Relative Ks p-value : 0.0144646
Relative ecdf deviation area : 0.154721
Relative ecdf area correlation : 0.619274
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.12
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0519215
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



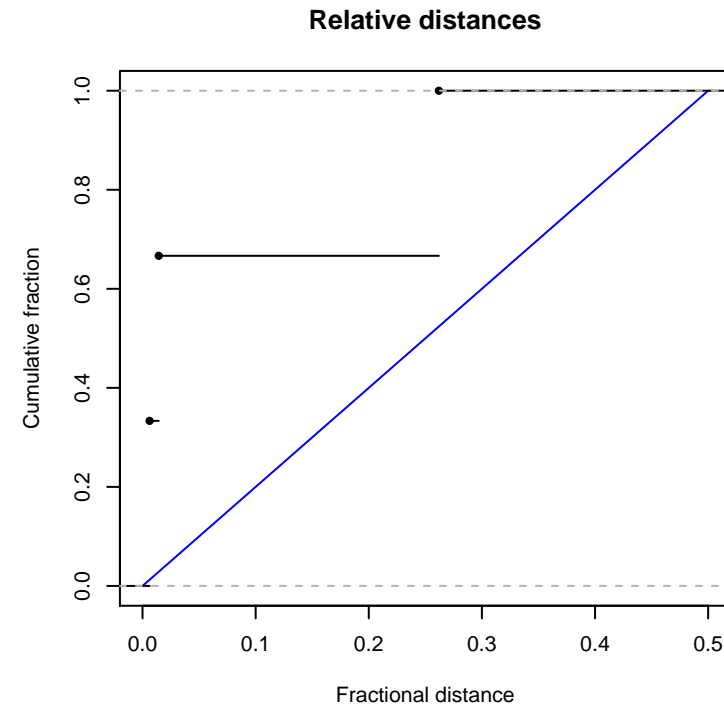
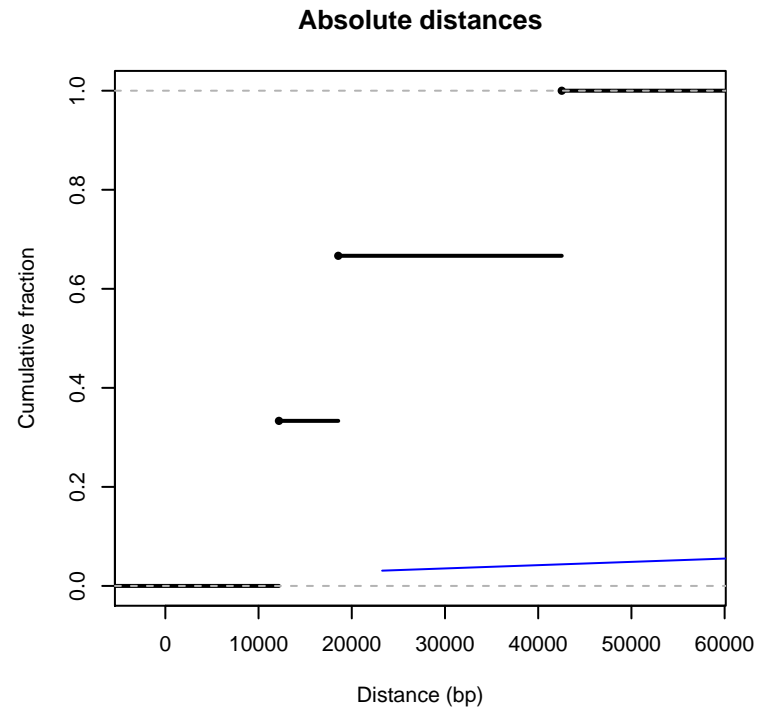
pcontig_067

Query population : 9
Reference population : 7
Relative Ks p-value : 0.00572035
Relative ecdf deviation area : 0.103116
Relative ecdf area correlation : 0.369276
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.09
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0508021
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



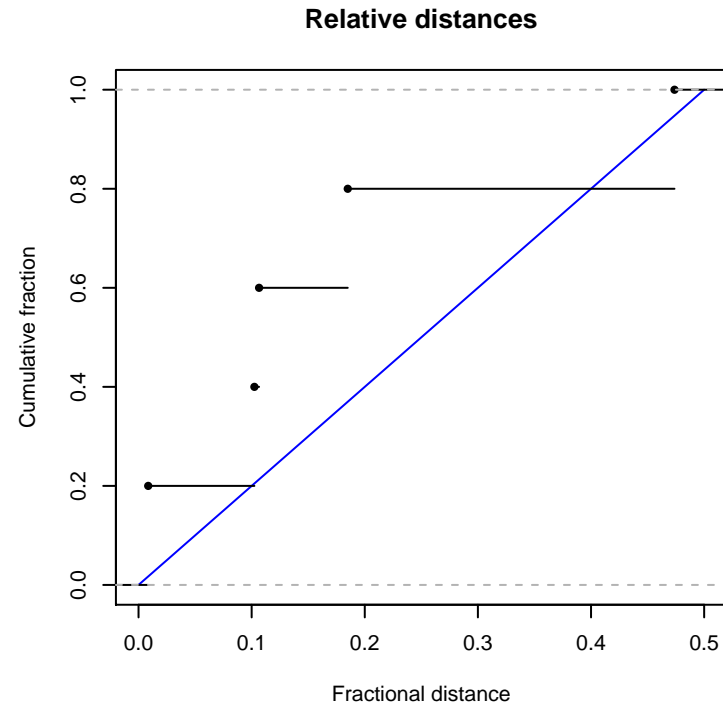
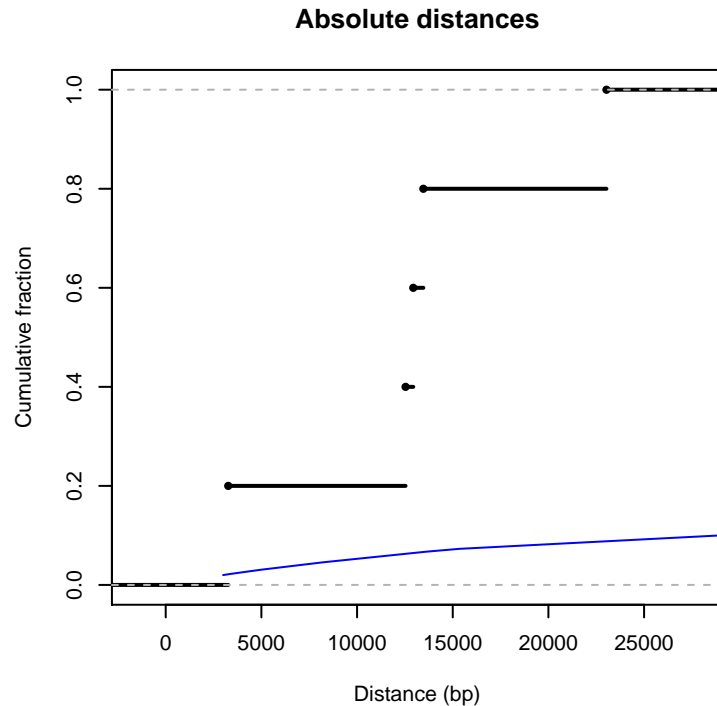
pcontig_068

Query population : 3
Reference population : 2
Relative Ks p-value : 0.0980028
Relative ecdf deviation area : 0.156038
Relative ecdf area correlation : 0.623284
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 : 0.00289533
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



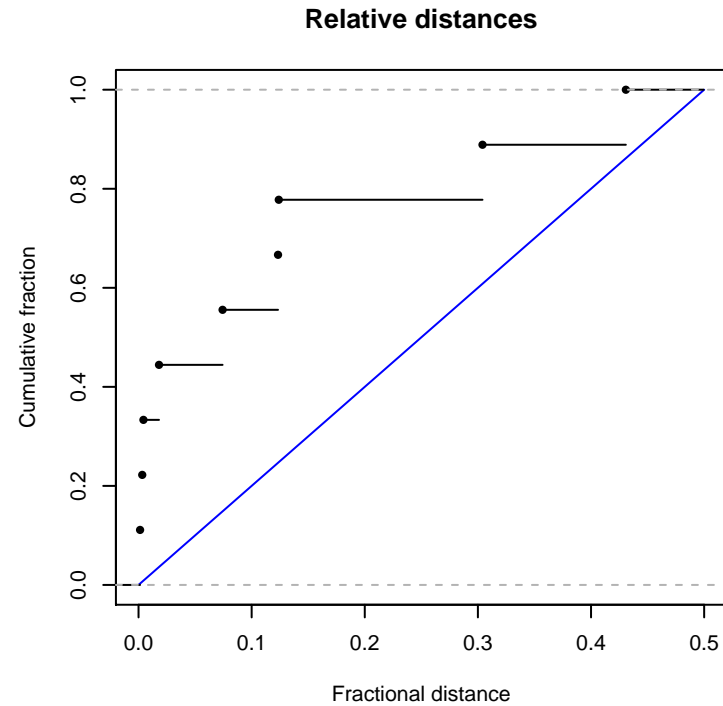
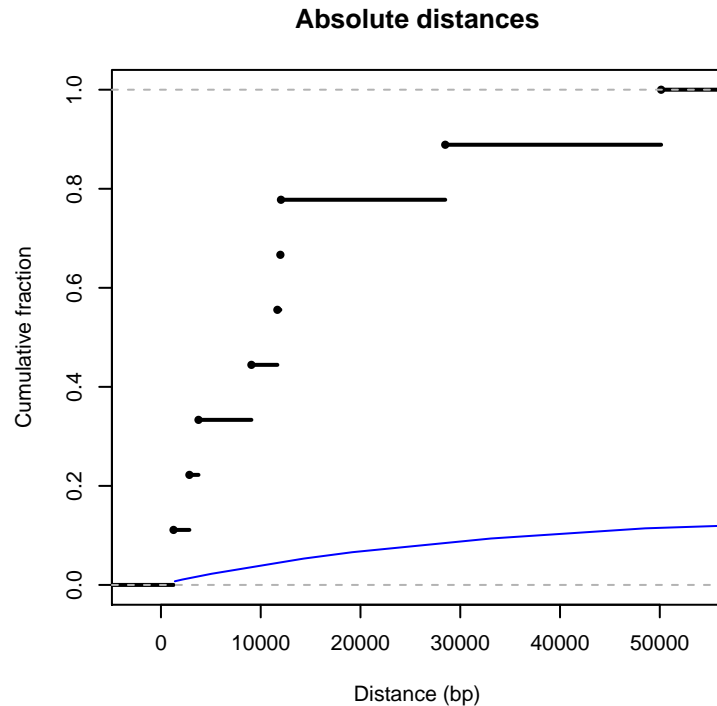
pcontig_069

Query population : 5
Reference population : 10
Relative Ks p-value : 0.235775
Relative ecdf deviation area : 0.0860955
Relative ecdf area correlation : 0.298955
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0310296
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



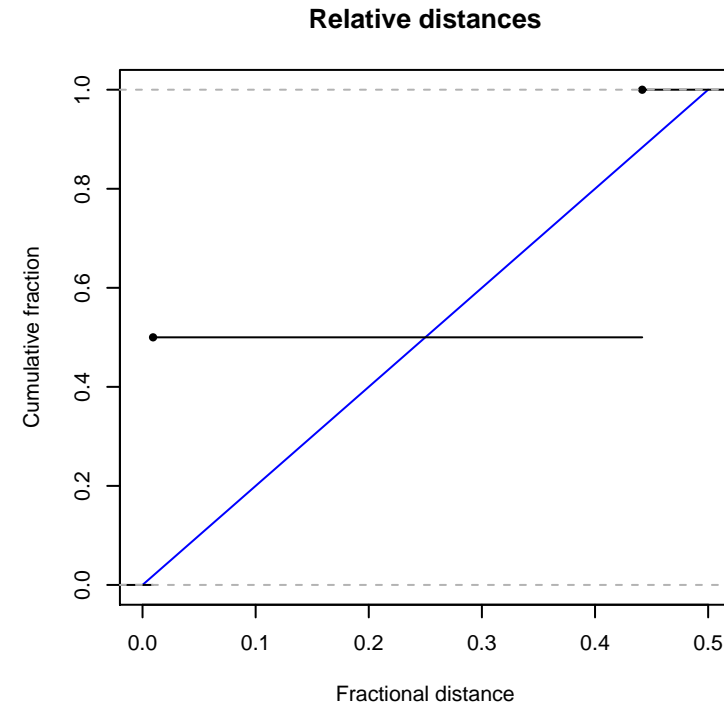
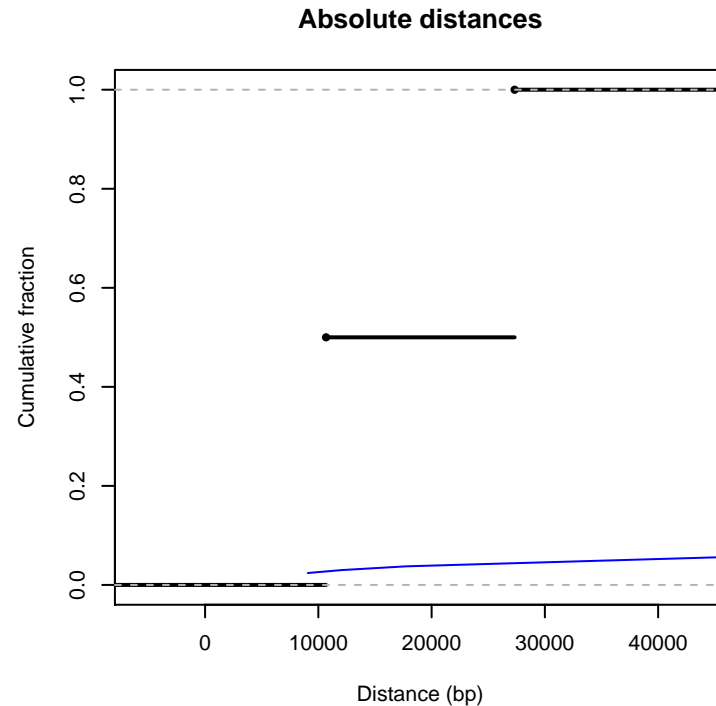
pcontig_070

Query population : 9
Reference population : 8
Relative Ks p-value : 0.00697191
Relative ecdf deviation area : 0.129174
Relative ecdf area correlation : 0.518417
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.11
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0524763
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



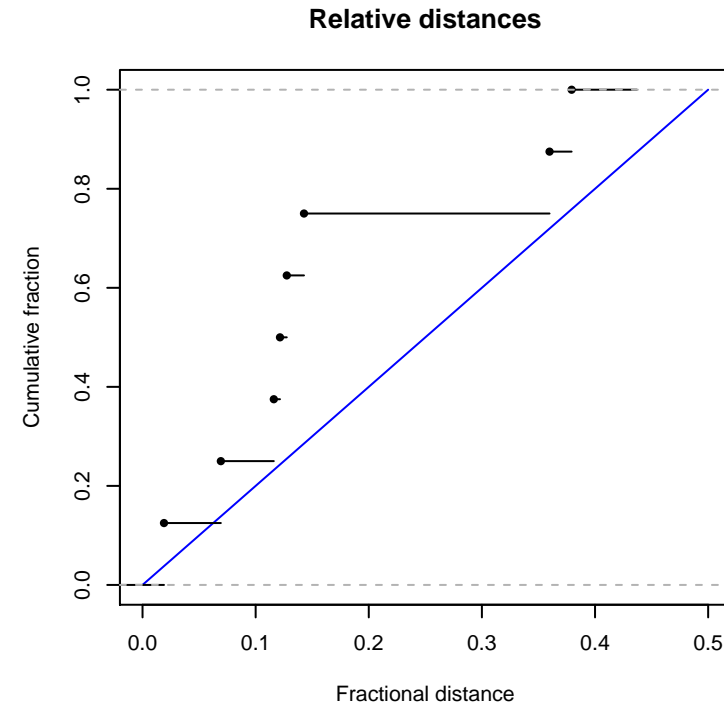
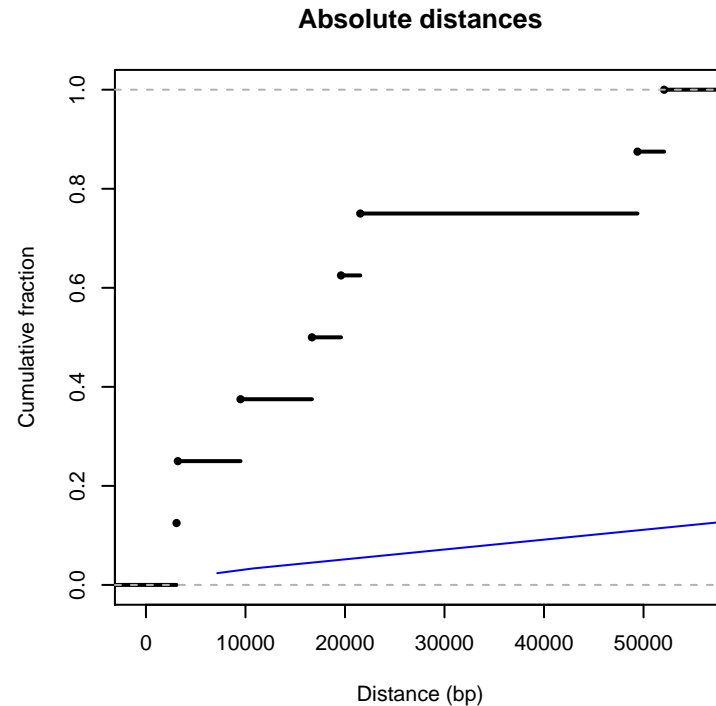
pcontig_072

Query population : 2
Reference population : 4
Relative Ks p-value : 0.571653
Relative ecdf deviation area : 0.0983176
Relative ecdf area correlation : 0.0979908
Relative ecdf deviation area p-value : 0.5
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00879402
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



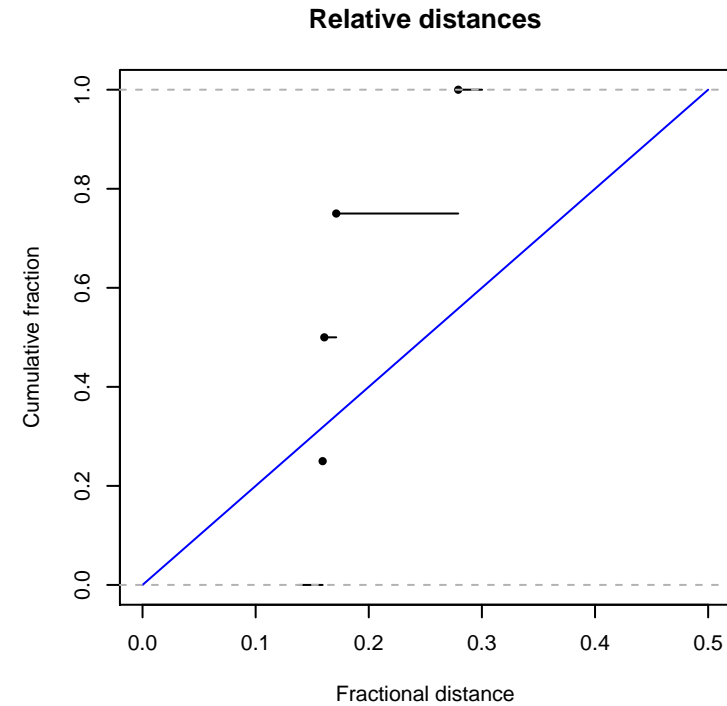
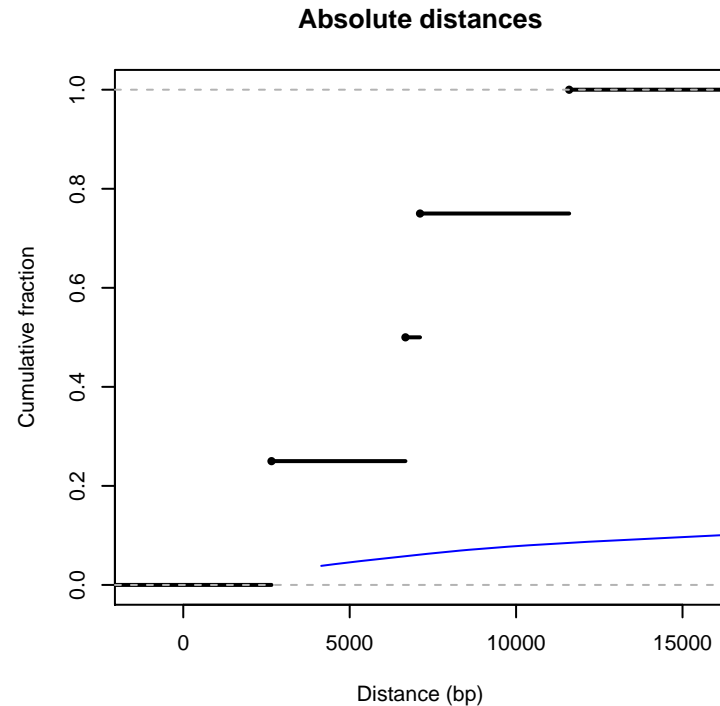
pcontig_073

Query population : 8
Reference population : 5
Relative Ks p-value : 0.0421721
Relative ecdf deviation area : 0.0826566
Relative ecdf area correlation : 0.332435
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 : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0273464
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



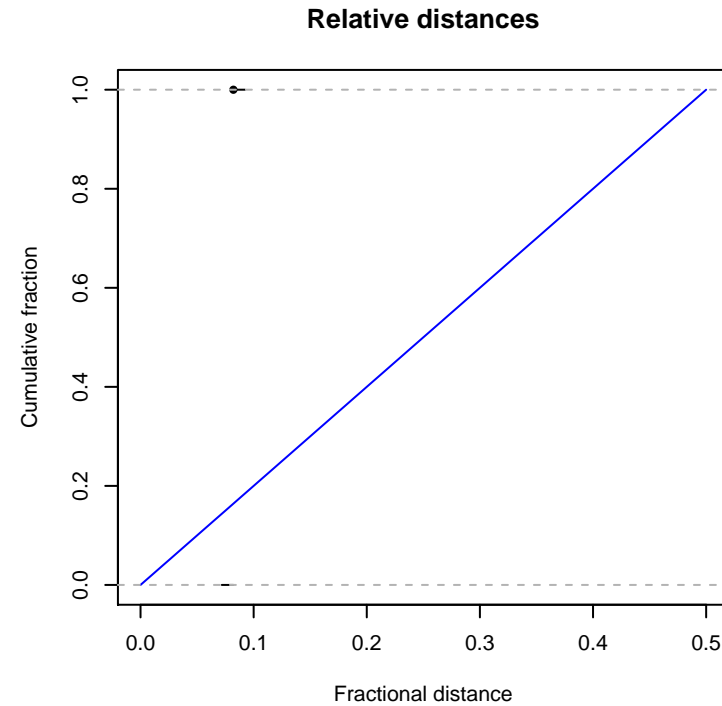
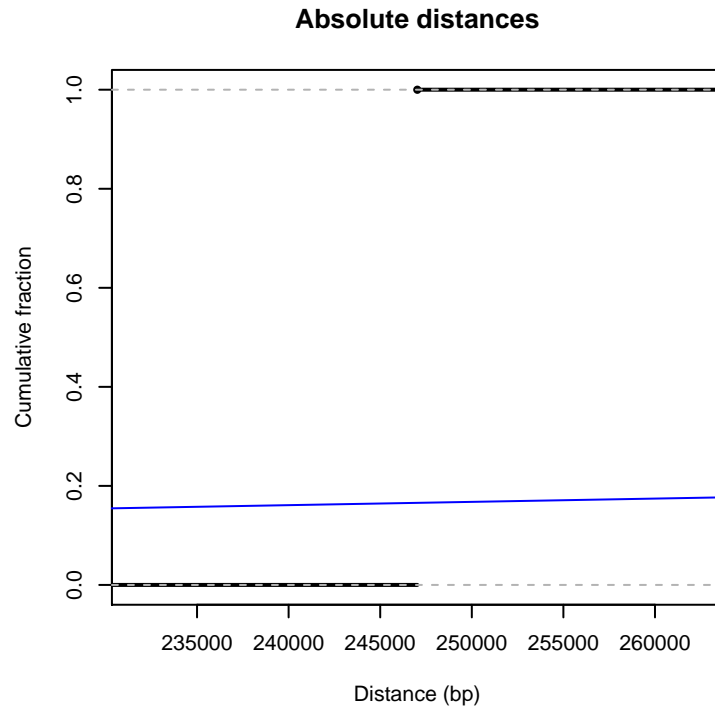
pcontig_074

Query population : 4
Reference population : 14
Relative Ks p-value : 0.314205
Relative ecdf deviation area : 0.108305
Relative ecdf area correlation : 0.229786
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 : 0.09
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0479387
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



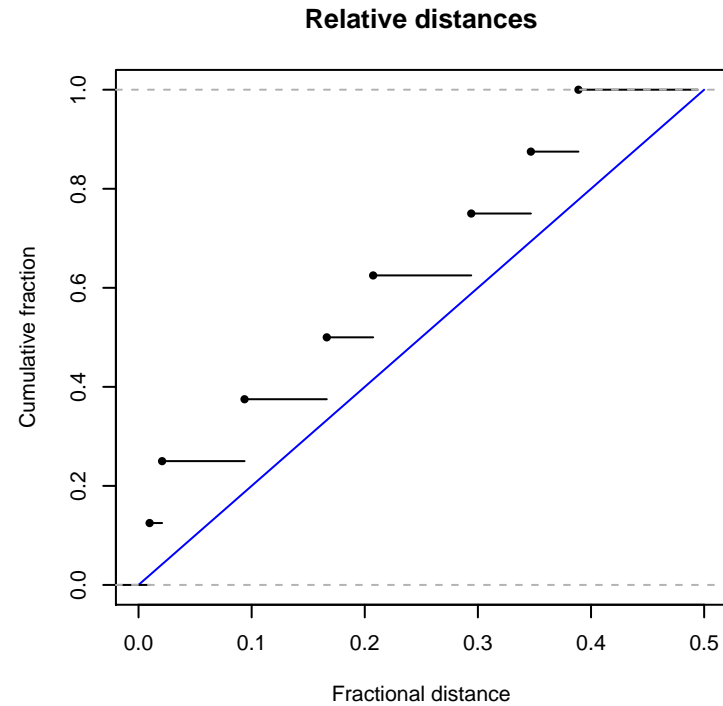
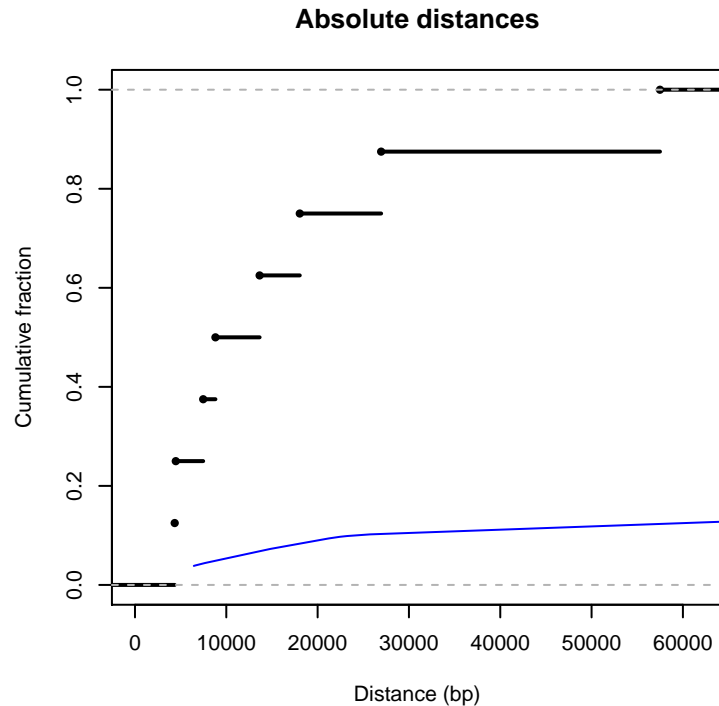
pcontig_075

Query population : 1
Reference population : 2
Relative Ks p-value : 0.328313
Relative ecdf deviation area : 0.181427
Relative ecdf area correlation : 0.671687
Relative ecdf deviation area p-value : 0.37
Scaled Absolute min. distance p-value : 0.22
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000835712
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



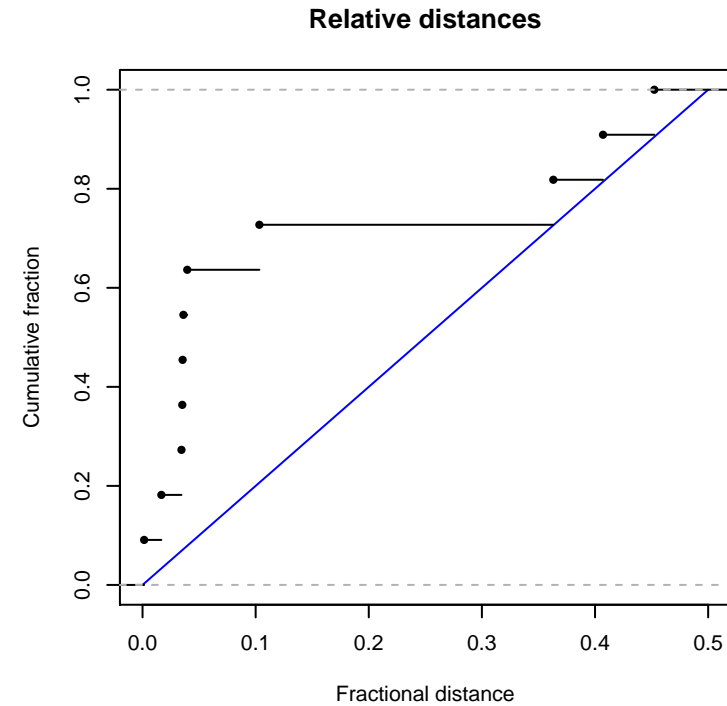
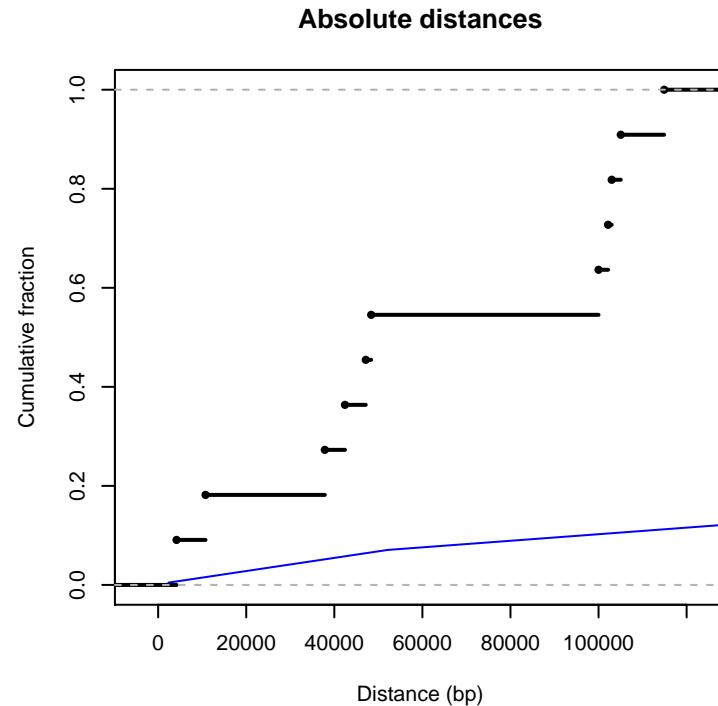
pcontig_077

Query population : 8
Reference population : 9
Relative Ks p-value : 0.748712
Relative ecdf deviation area : 0.0593159
Relative ecdf area correlation : 0.236018
Relative ecdf deviation area p-value : 0.32
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.13
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0528048
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



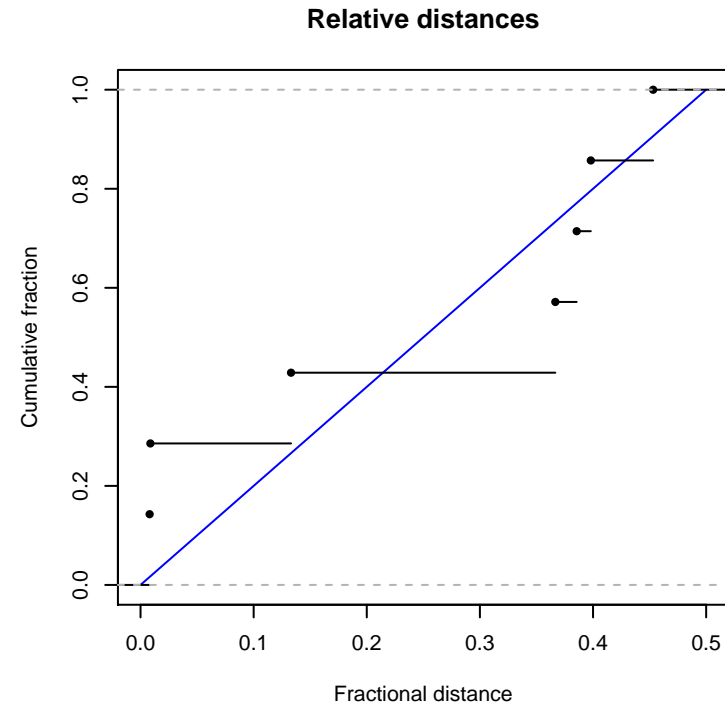
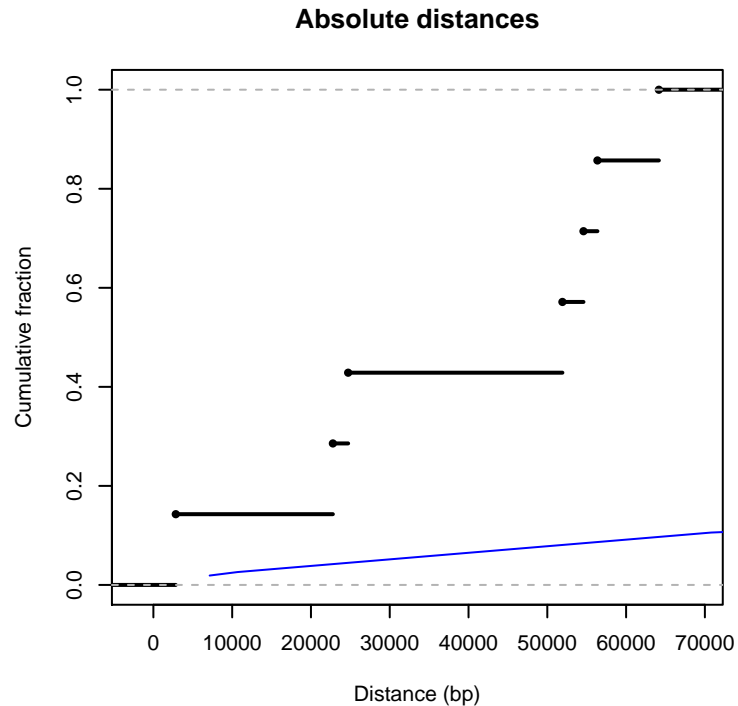
pcontig_078

Query population : 11
Reference population : 3
Relative Ks p-value : 0.000959286
Relative ecdf deviation area : 0.111486
Relative ecdf area correlation : 0.445576
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0203294
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



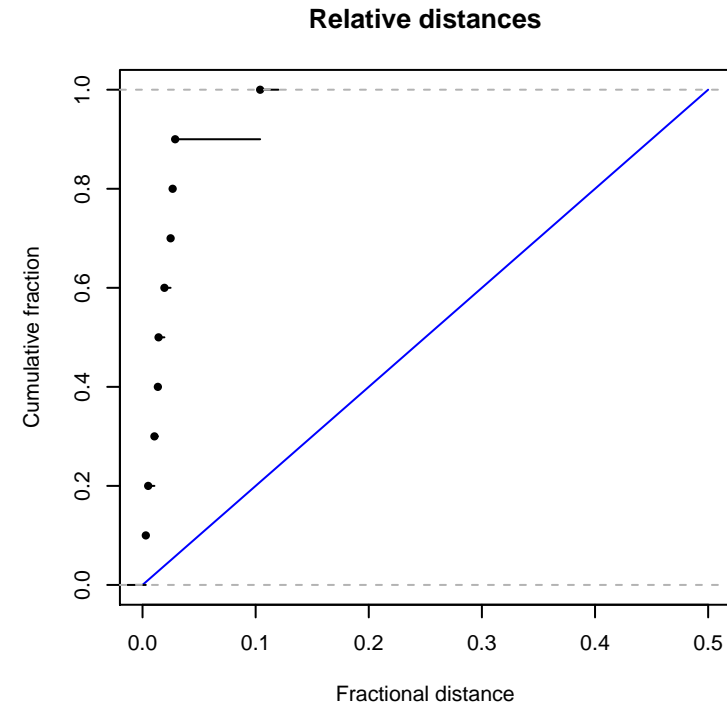
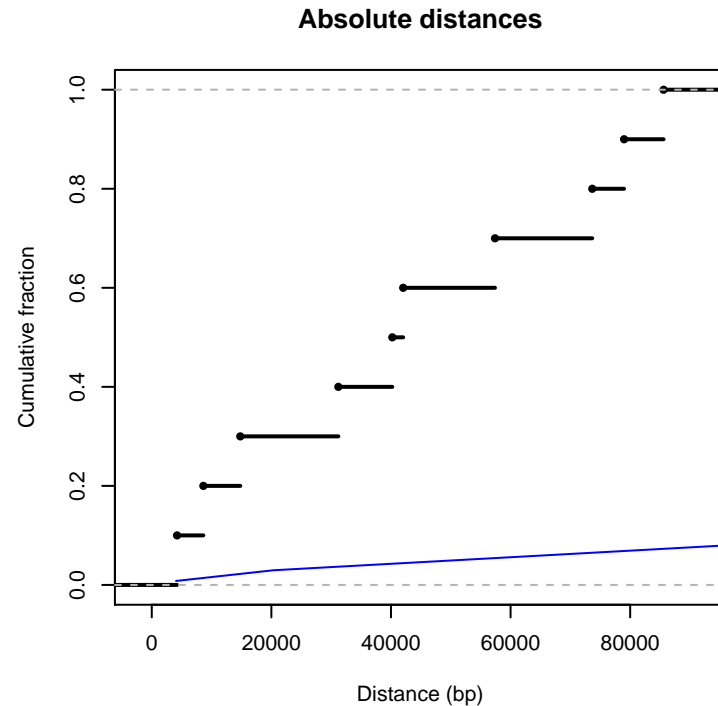
pcontig_080

Query population : 7
Reference population : 4
Relative Ks p-value : 0.447102
Relative ecdf deviation area : 0.0558245
Relative ecdf area correlation : -0.00183603
Relative ecdf deviation area p-value : 0.45
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0188833
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



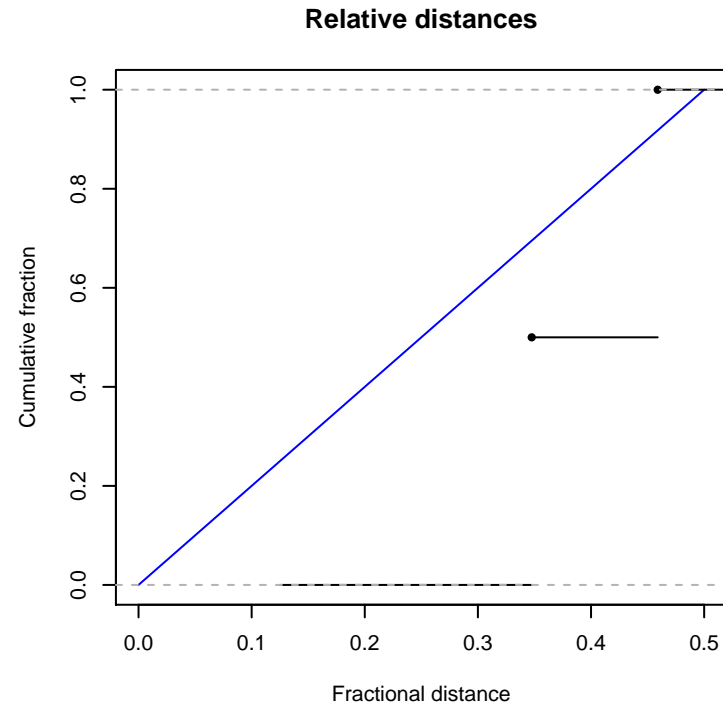
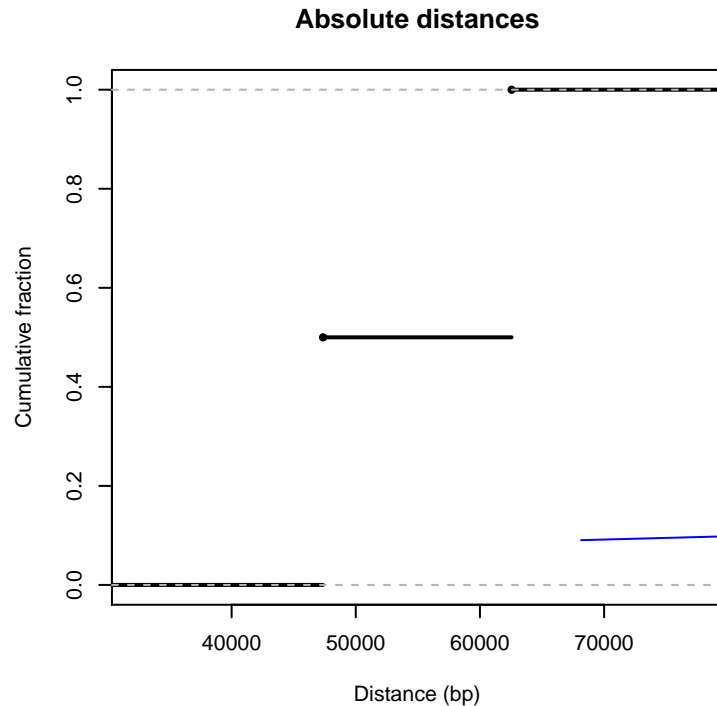
pcontig_081

Query population : 10
Reference population : 3
Relative Ks p-value : 1.9151e-08
Relative ecdf deviation area : 0.224918
Relative ecdf area correlation : 0.900087
Relative ecdf deviation area p-value : <0.01
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 : 0.0266207
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



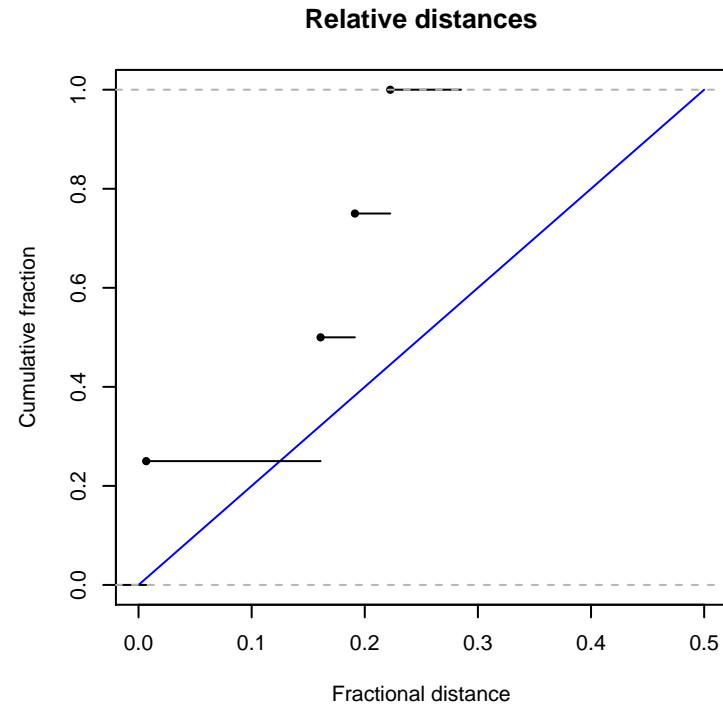
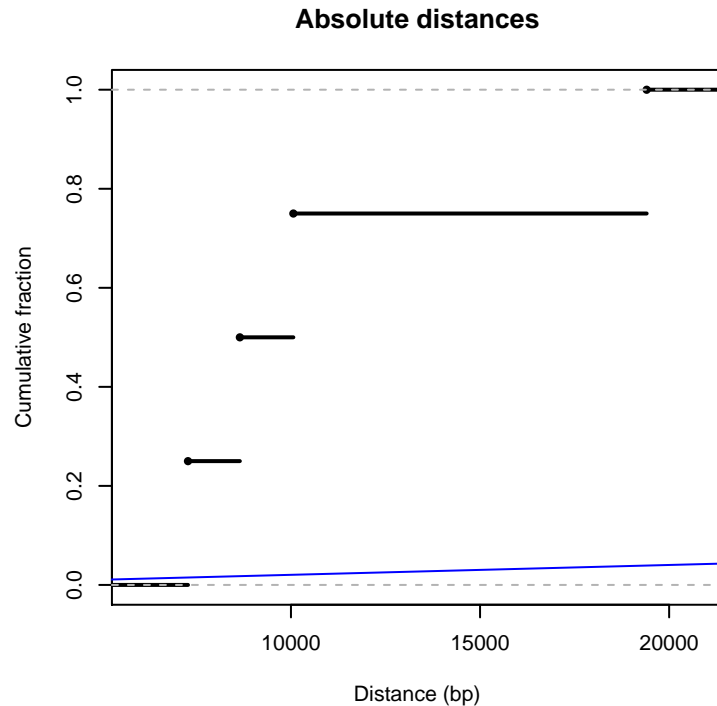
pcontig_082

Query population : 2
Reference population : 2
Relative Ks p-value : 0.185926
Relative ecdf deviation area : 0.156767
Relative ecdf area correlation : -0.613003
Relative ecdf deviation area p-value : 0.13
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00208024
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



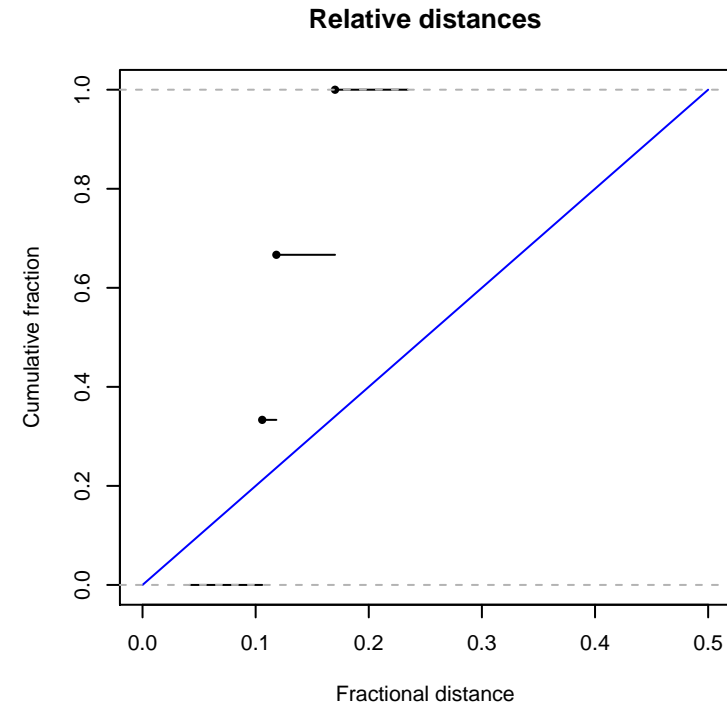
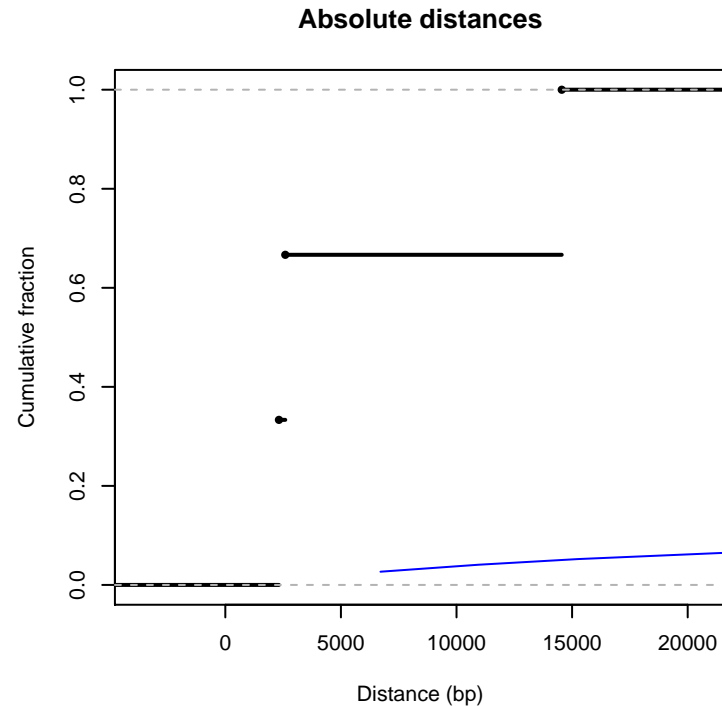
pcontig_083

Query population : 4
Reference population : 4
Relative Ks p-value : 0.111432
Relative ecdf deviation area : 0.107163
Relative ecdf area correlation : 0.41848
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 : FALSE
Projection test p-value : 0.00805806
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



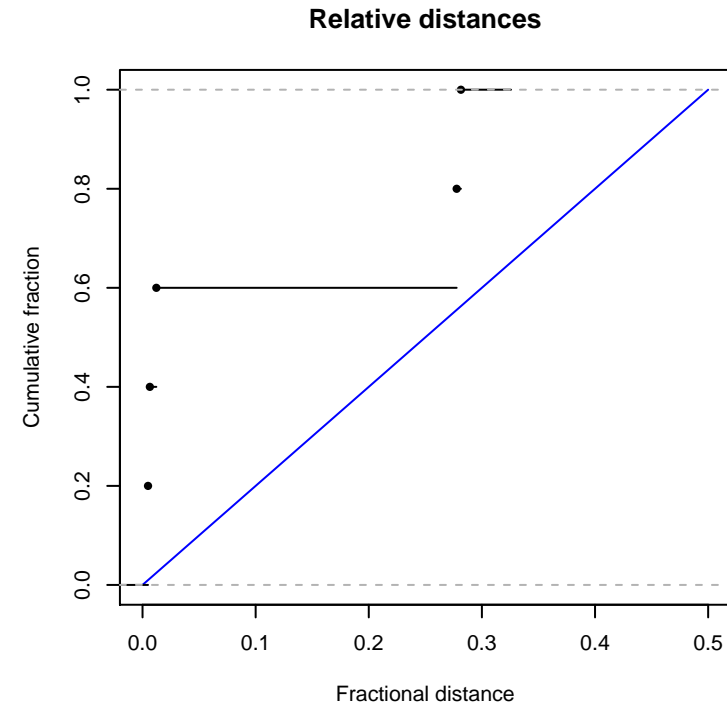
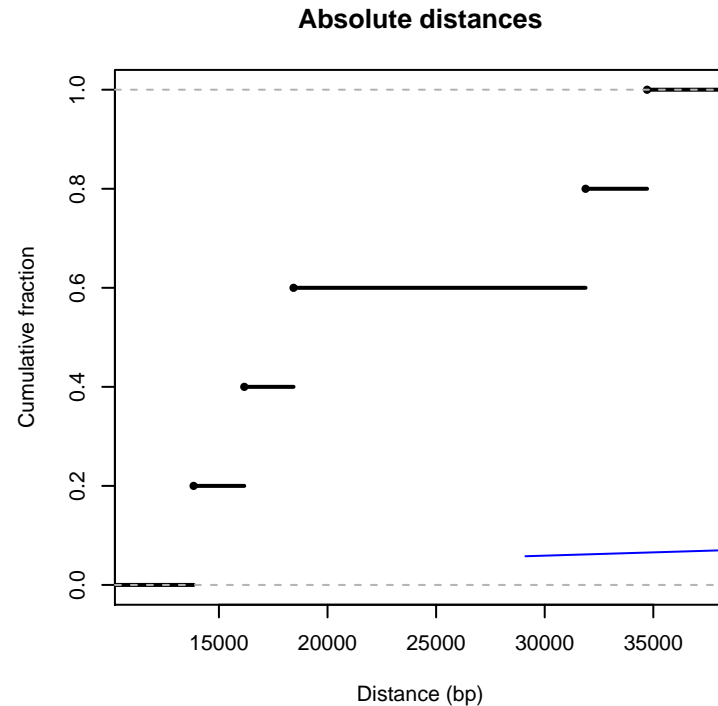
pcontig_084

Query population : 3
Reference population : 6
Relative Ks p-value : 0.0790458
Relative ecdf deviation area : 0.139916
Relative ecdf area correlation : 0.47428
Relative ecdf deviation area p-value : 0.05
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0154904
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_086

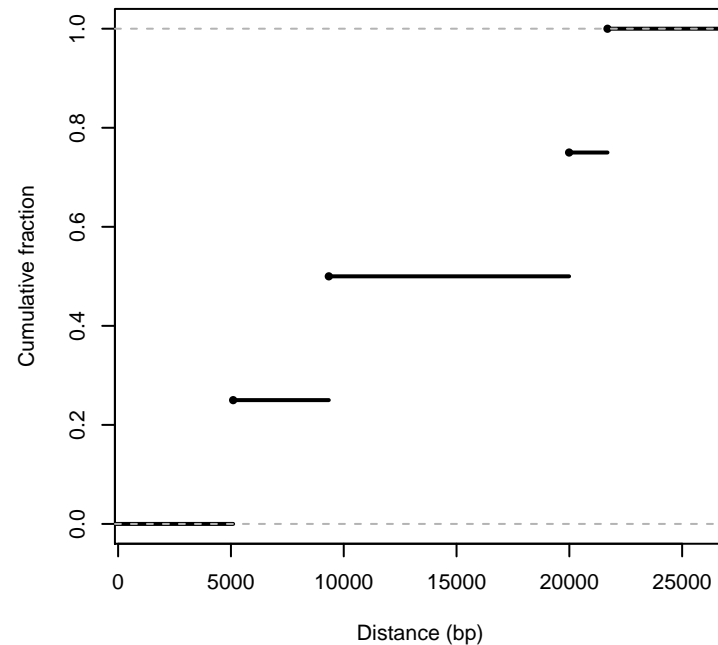
Query population : 5
Reference population : 3
Relative Ks p-value : 0.0423019
Relative ecdf deviation area : 0.132923
Relative ecdf area correlation : 0.53385
Relative ecdf deviation area p-value : 0.03
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0114268
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



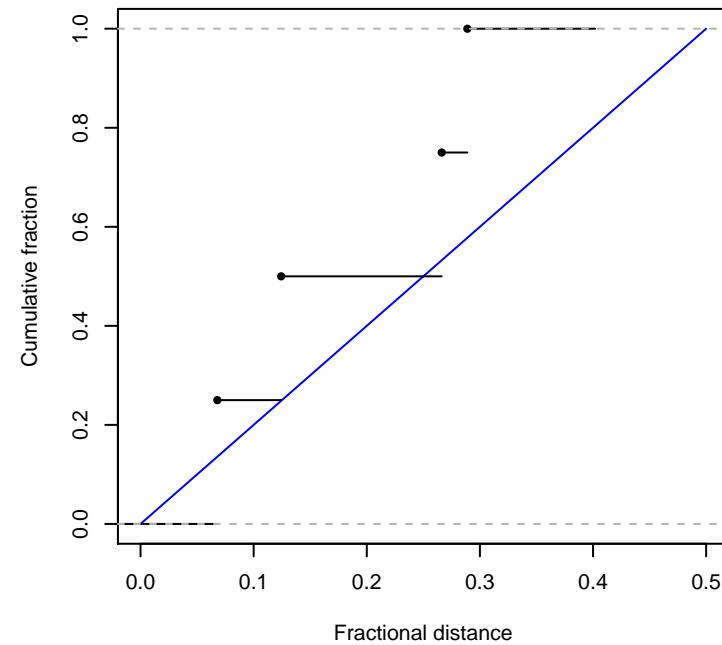
pcontig_087

Query population : 4
Reference population : 2
Relative Ks p-value : 0.369445
Relative ecdf deviation area : 0.0727485
Relative ecdf area correlation : 0.252561
Relative ecdf deviation area p-value : 0.48
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00835733
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

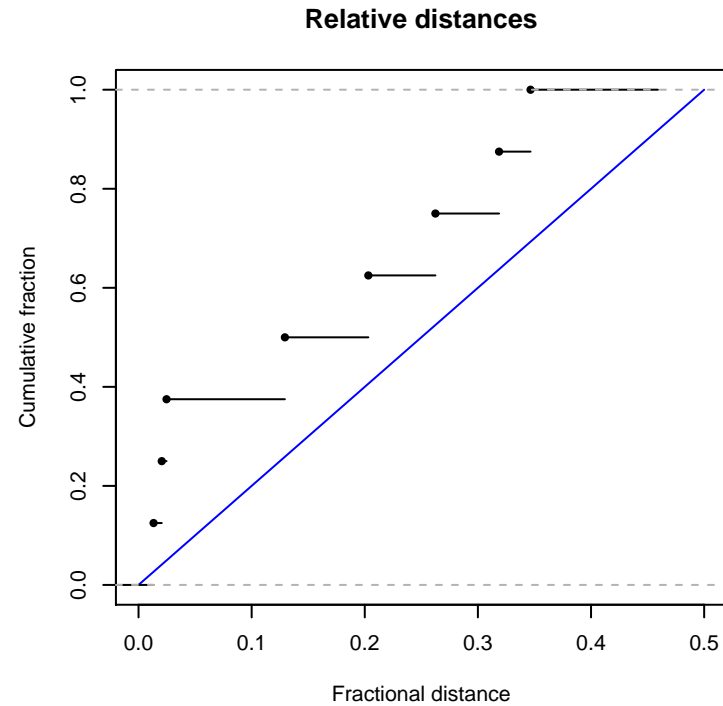
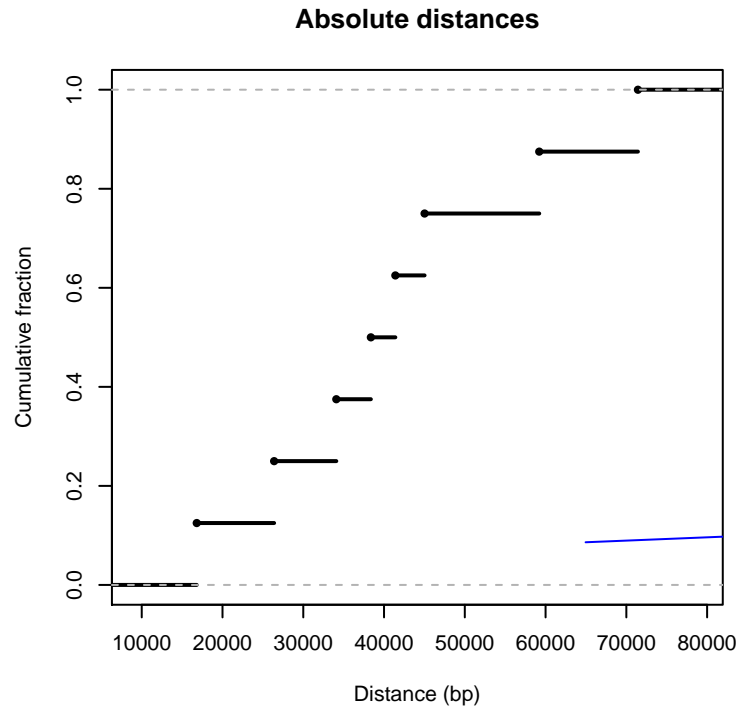


Relative distances



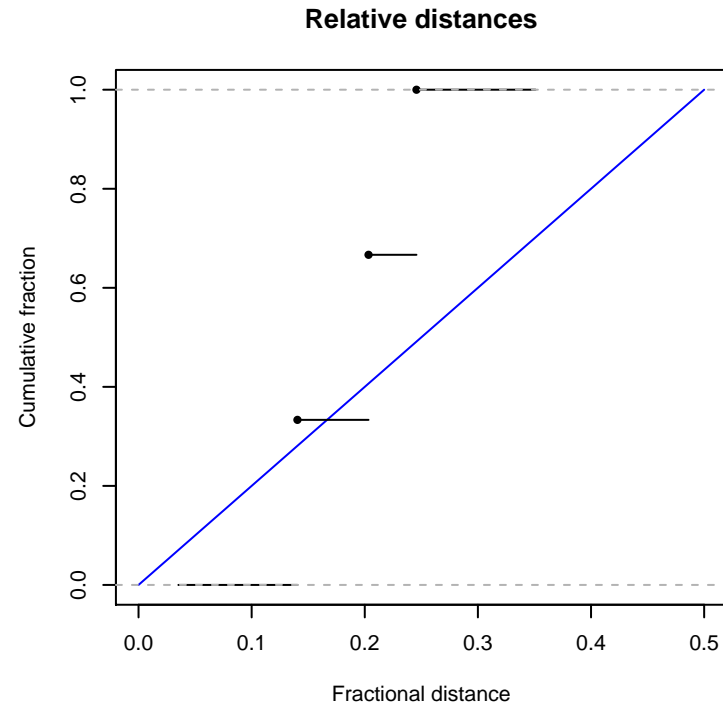
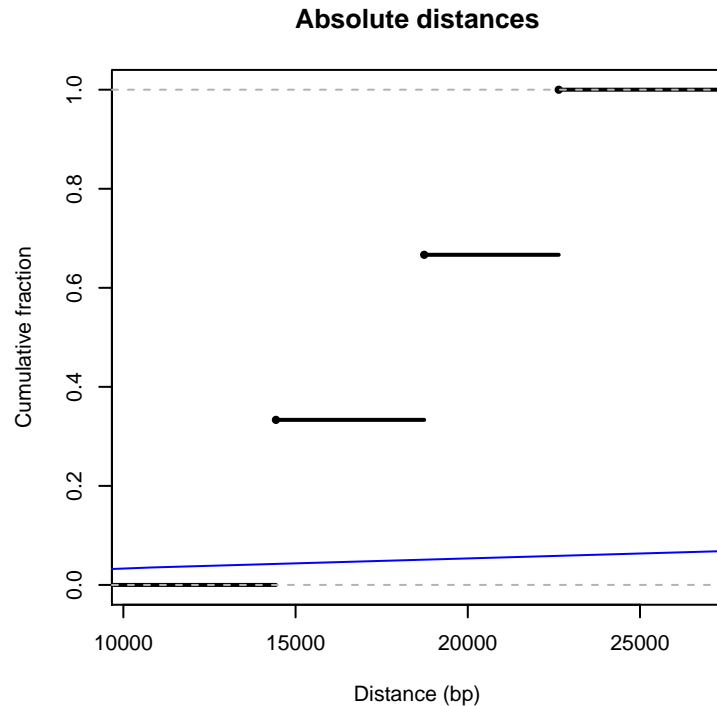
pcontig_088

Query population : 8
Reference population : 2
Relative Ks p-value : 0.295875
Relative ecdf deviation area : 0.085431
Relative ecdf area correlation : 0.340583
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 : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0143968
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



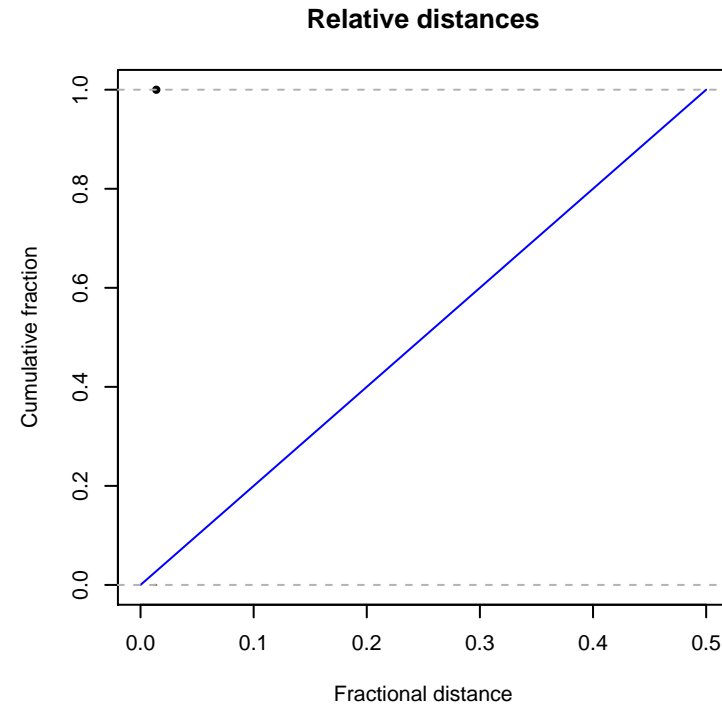
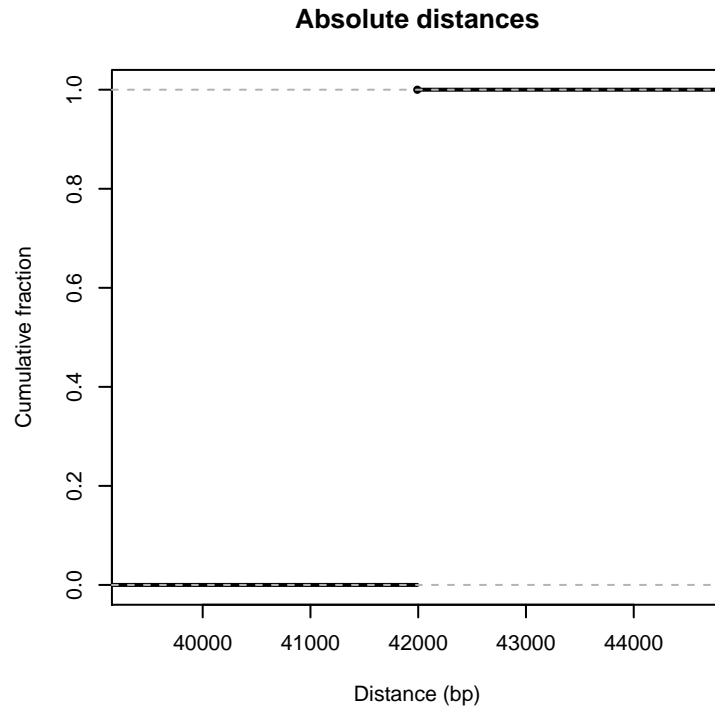
pcontig_089

Query population : 3
Reference population : 7
Relative Ks p-value : 0.31354
Relative ecdf deviation area : 0.095837
Relative ecdf area correlation : 0.214049
Relative ecdf deviation area p-value : 0.49
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0218774
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_090

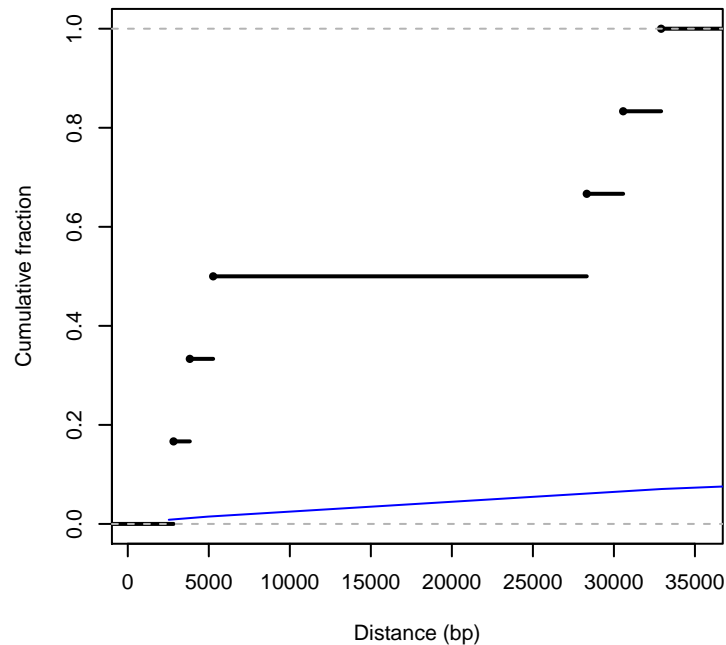
Query population : 1
Reference population : 1
Relative Ks p-value : 0.0557035
Relative ecdf deviation area : 0.236142
Relative ecdf area correlation : 0.944296
Relative ecdf deviation area p-value : 0.03
Scaled Absolute min. distance p-value : 0.03
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000190688
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



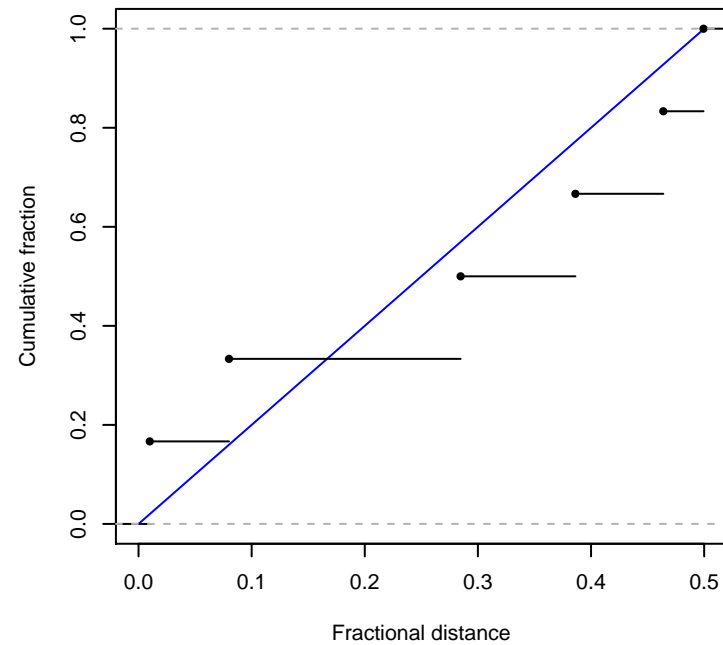
pcontig_091

Query population : 6
Reference population : 5
Relative Ks p-value : 0.674858
Relative ecdf deviation area : 0.063628
Relative ecdf area correlation : -0.149445
Relative ecdf deviation area p-value : 0.39
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0329953
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances



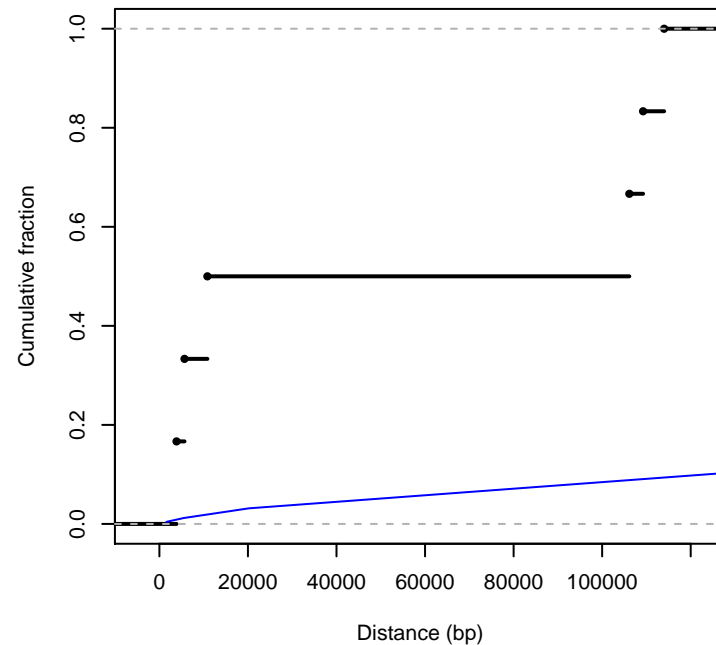
Relative distances



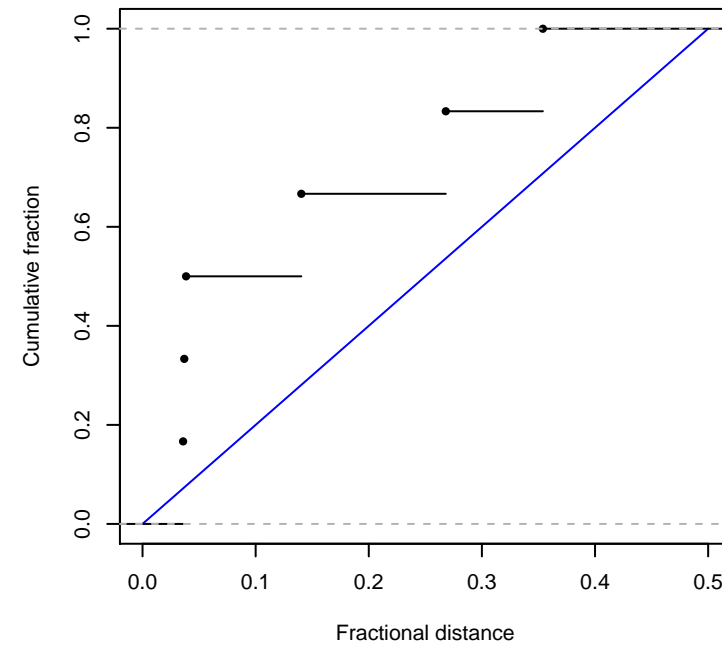
pcontig_092

Query population : 6
Reference population : 4
Relative Ks p-value : 0.17326
Relative ecdf deviation area : 0.106471
Relative ecdf area correlation : 0.417622
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 : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.020788
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

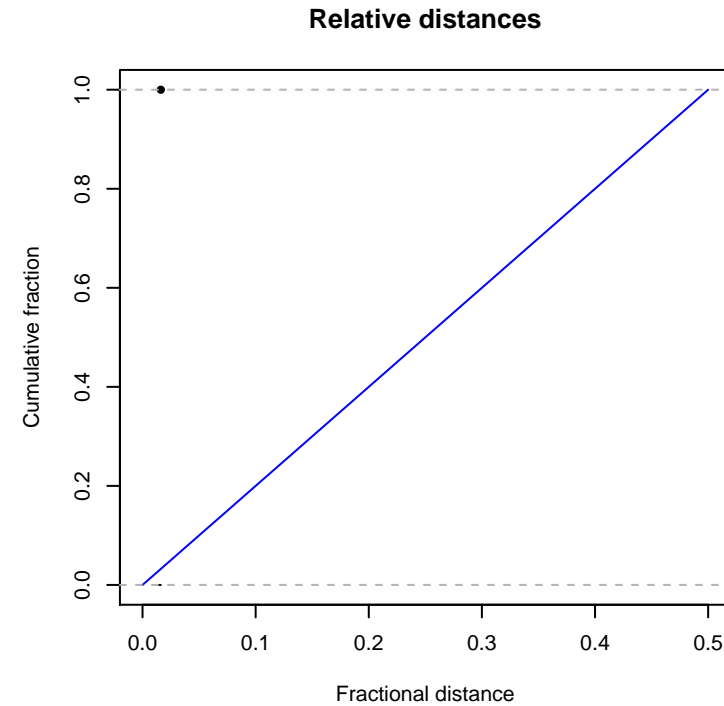
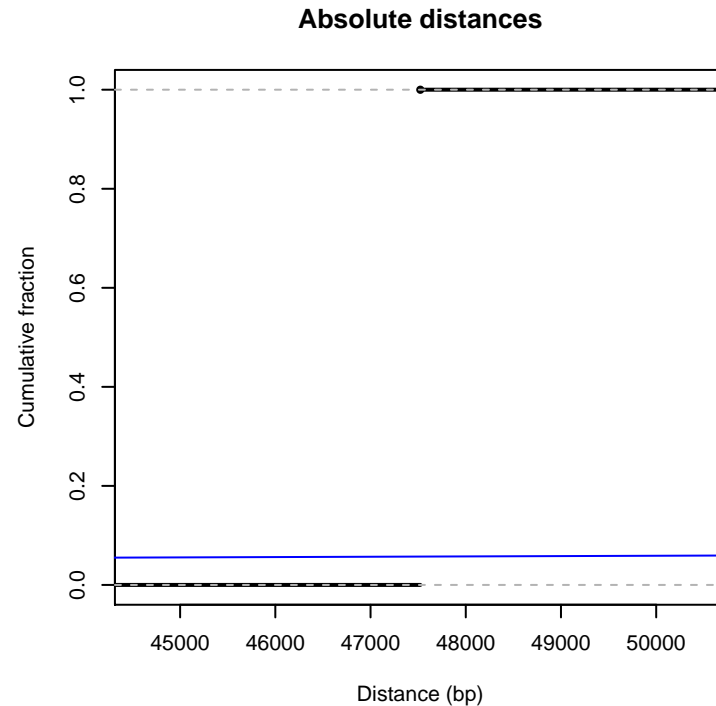


Relative distances



pcontig_095

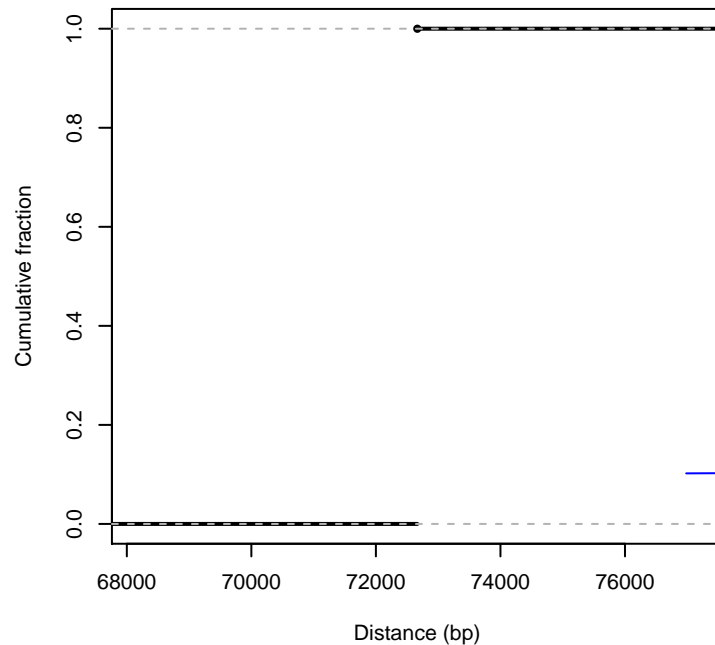
Query population : 1
Reference population : 3
Relative Ks p-value : 0.0647069
Relative ecdf deviation area : 0.234139
Relative ecdf area correlation : 0.935293
Relative ecdf deviation area p-value : 0.06000000000000001
Scaled Absolute min. distance p-value : 0.05
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00144326
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



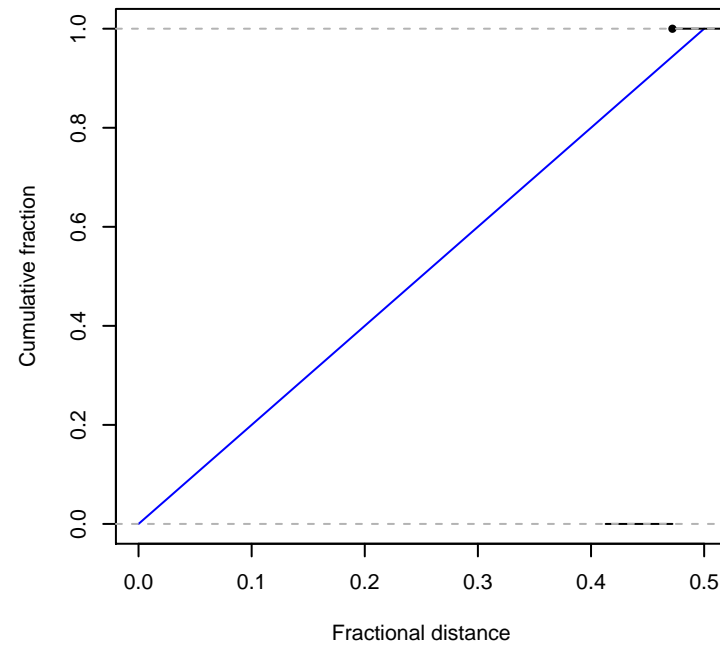
pcontig_097

Query population : 1
Reference population : 2
Relative Ks p-value : 0.112168
Relative ecdf deviation area : 0.223097
Relative ecdf area correlation : -0.887832
Relative ecdf deviation area p-value : 0.1
Scaled Absolute min. distance p-value : 0.08
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00110234
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

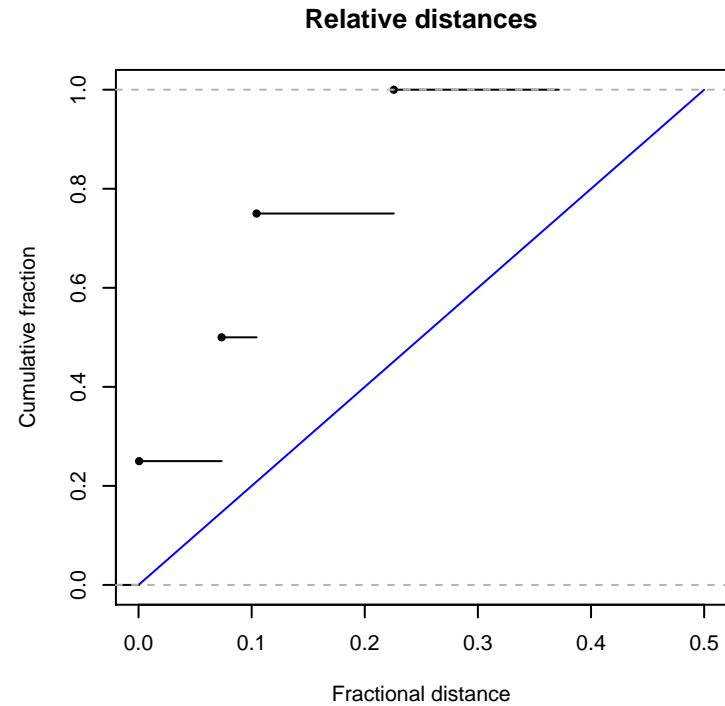
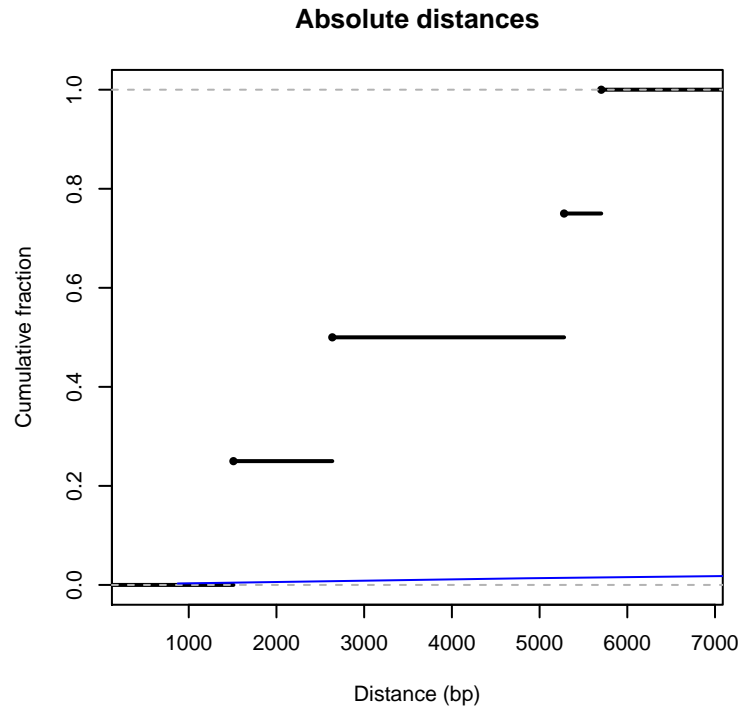


Relative distances



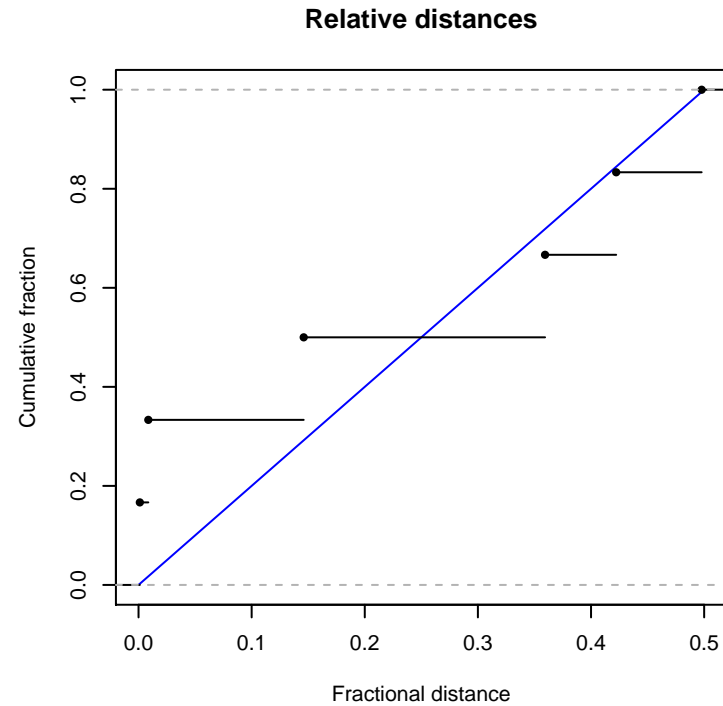
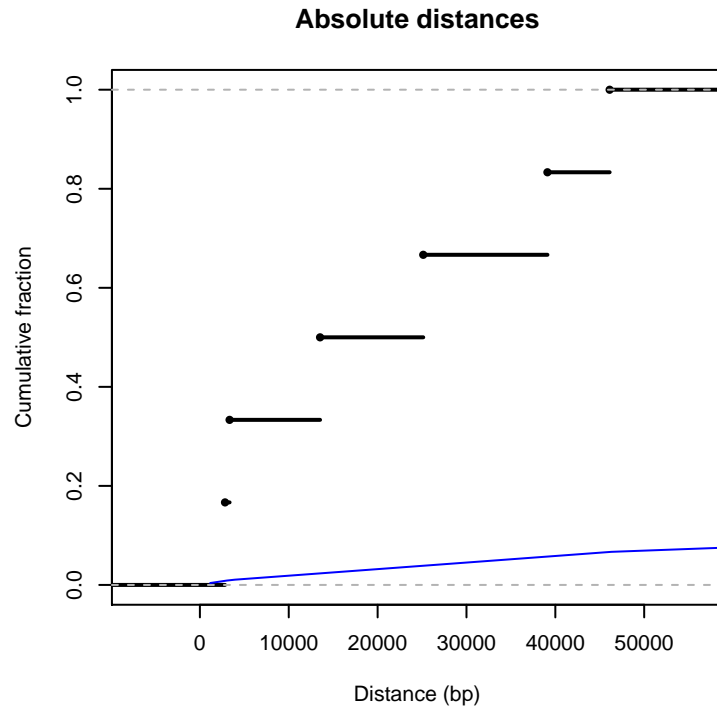
pcontig_100

Query population : 4
Reference population : 5
Relative Ks p-value : 0.118827
Relative ecdf deviation area : 0.149059
Relative ecdf area correlation : 0.596017
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 : 0.0164185
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



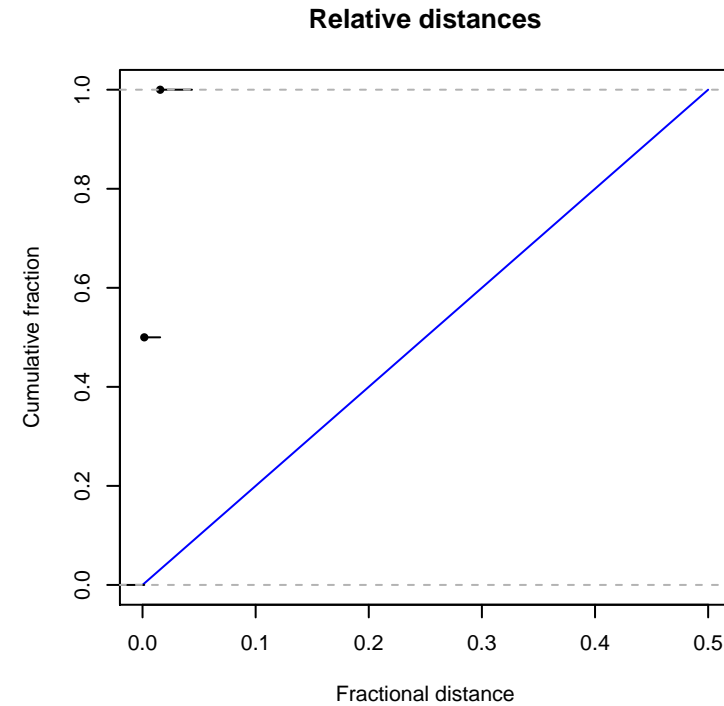
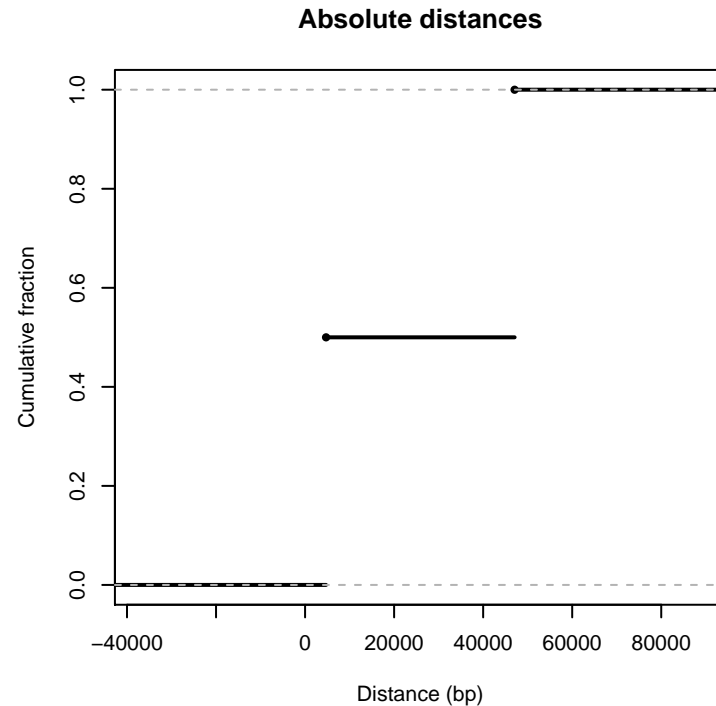
pcontig_103

Query population : 6
Reference population : 5
Relative Ks p-value : 0.488627
Relative ecdf deviation area : 0.0623526
Relative ecdf area correlation : 0.0431897
Relative ecdf deviation area p-value : 0.49
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0375162
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



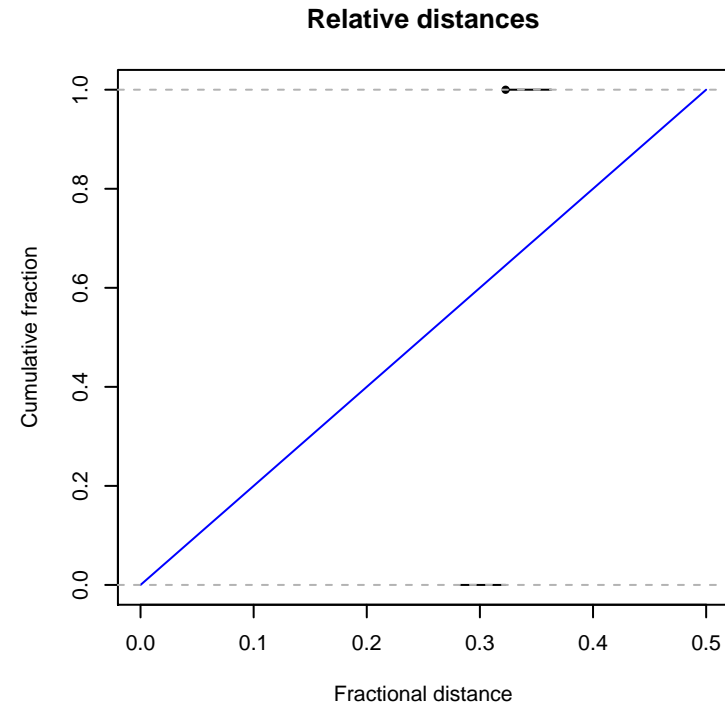
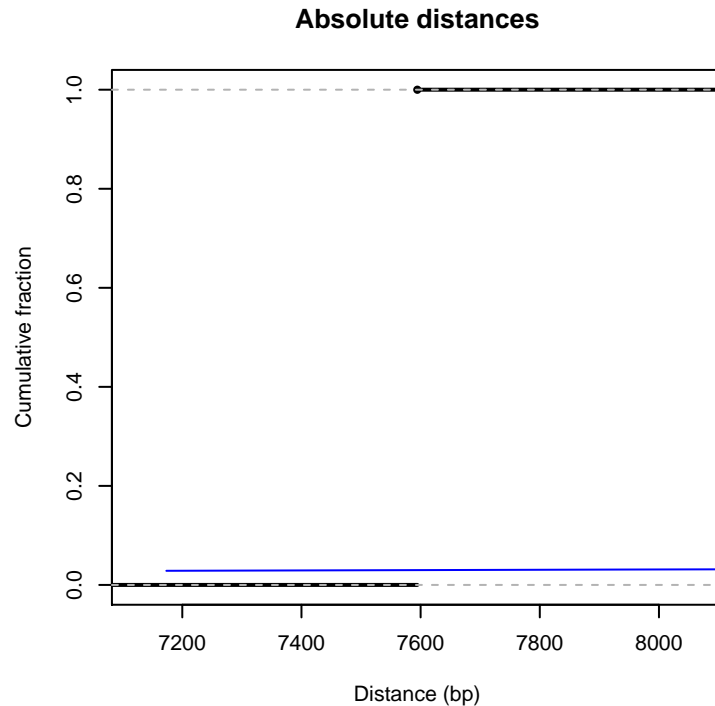
pcontig_104

Query population : 2
Reference population : 1
Relative Ks p-value : 0.0019489
Relative ecdf deviation area : 0.242002
Relative ecdf area correlation : 0.965657
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00144937
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



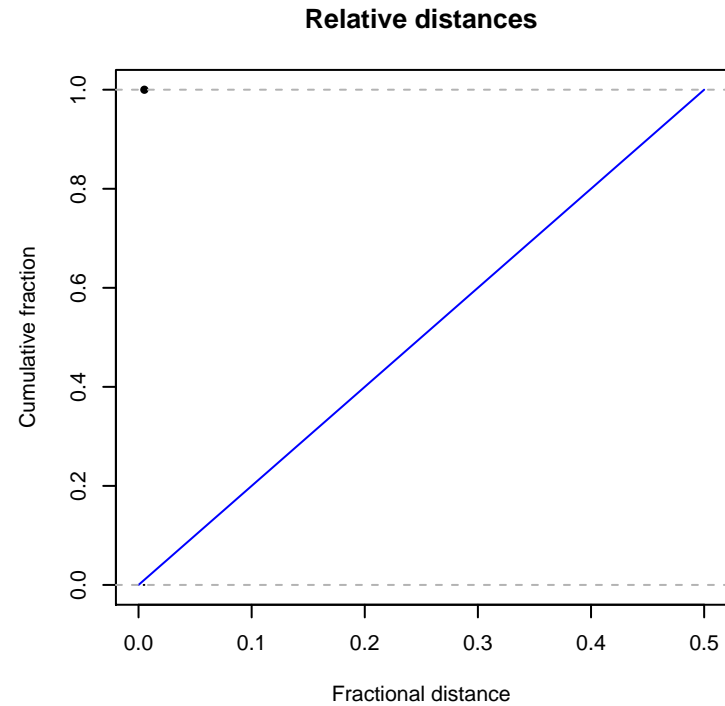
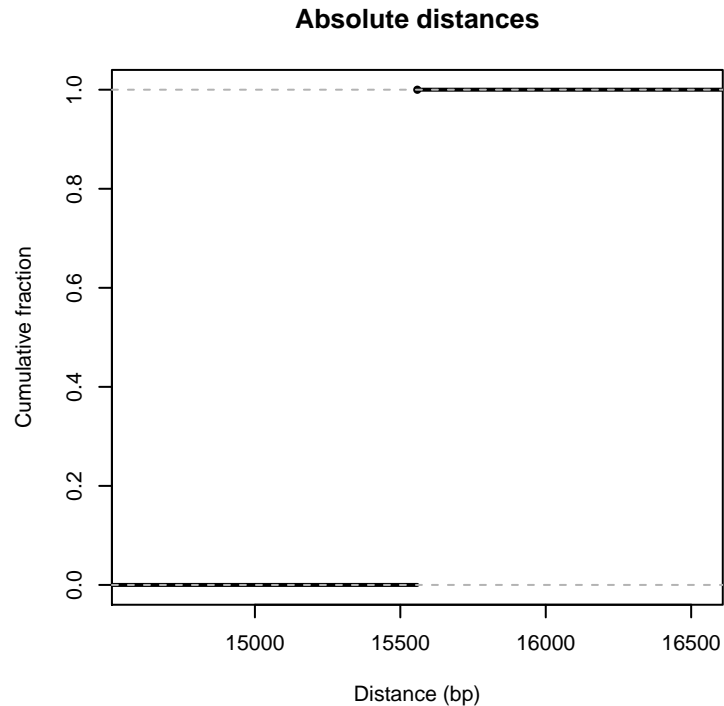
pcontig_106

Query population : 1
Reference population : 6
Relative Ks p-value : 0.709159
Relative ecdf deviation area : 0.136029
Relative ecdf area correlation : -0.290841
Relative ecdf deviation area p-value : 0.68
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00477782
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



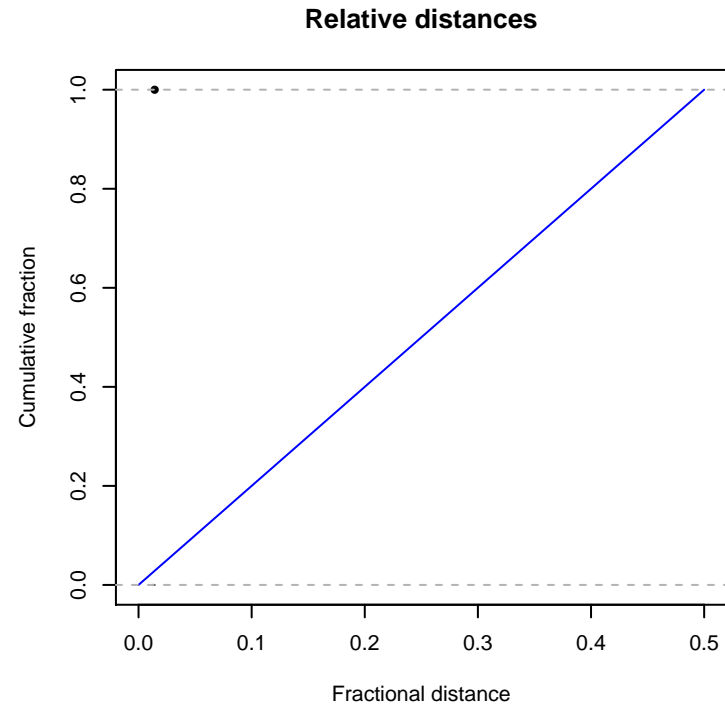
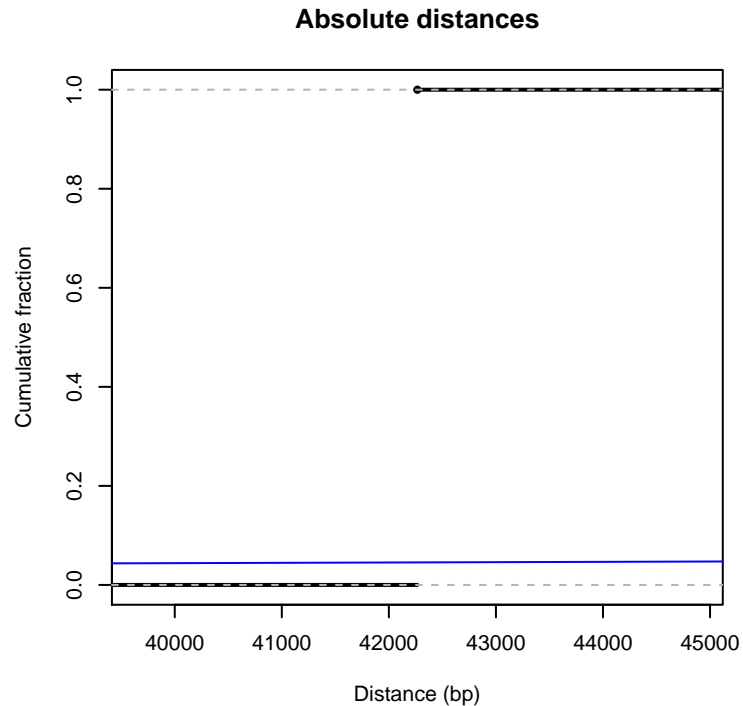
pcontig_112

Query population : 1
Reference population : 1
Relative Ks p-value : 0.0206388
Relative ecdf deviation area : 0.244619
Relative ecdf area correlation : 0.979361
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 : 0.000656299
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



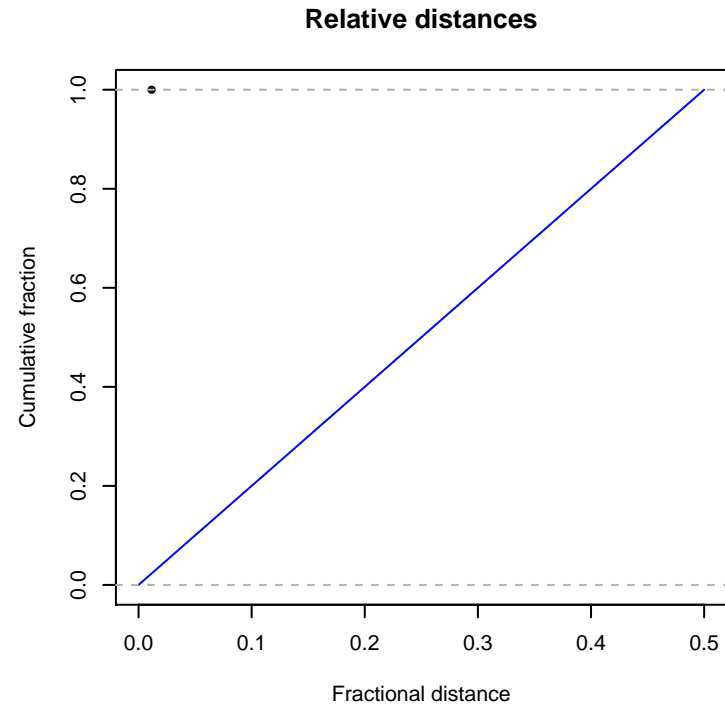
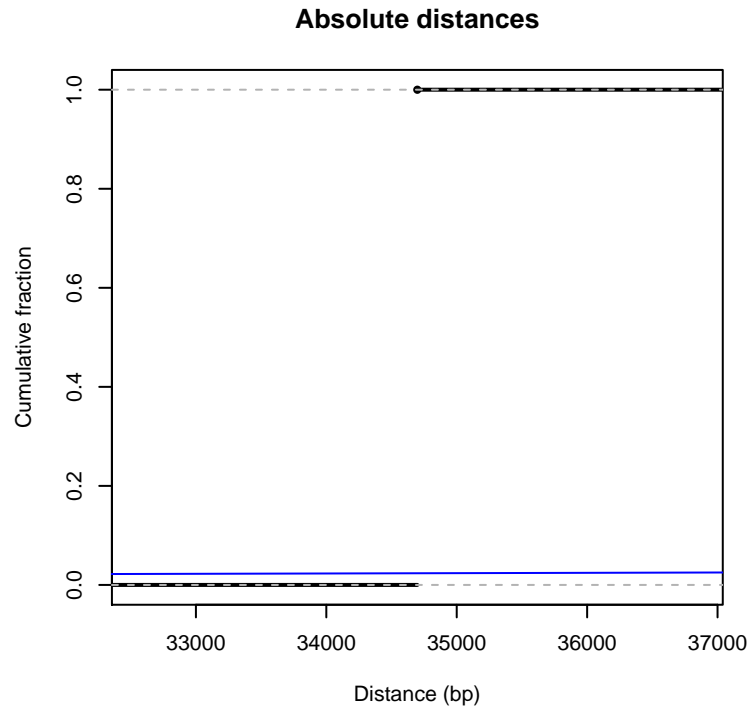
pcontig_115

Query population : 1
Reference population : 4
Relative Ks p-value : 0.0570628
Relative ecdf deviation area : 0.236142
Relative ecdf area correlation : 0.942937
Relative ecdf deviation area p-value : 0.05
Scaled Absolute min. distance p-value : 0.08
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00246535
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



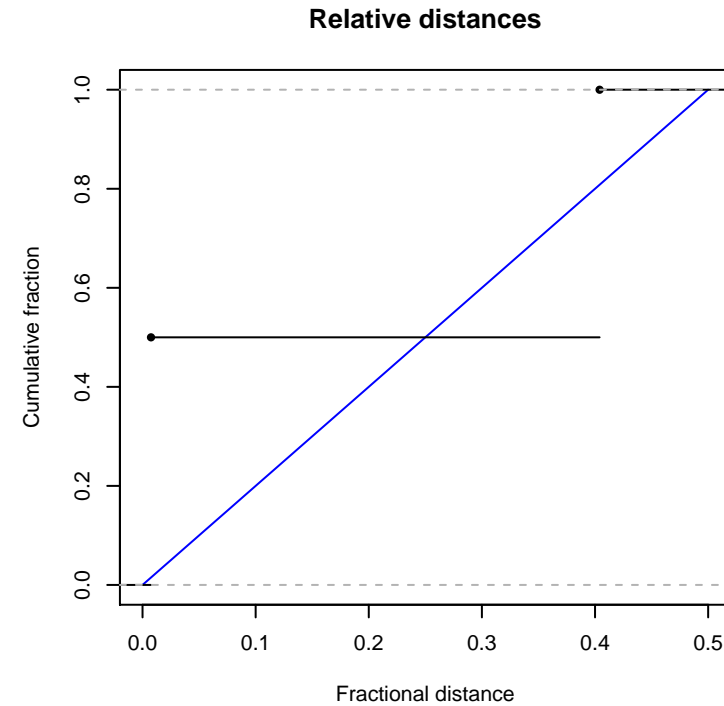
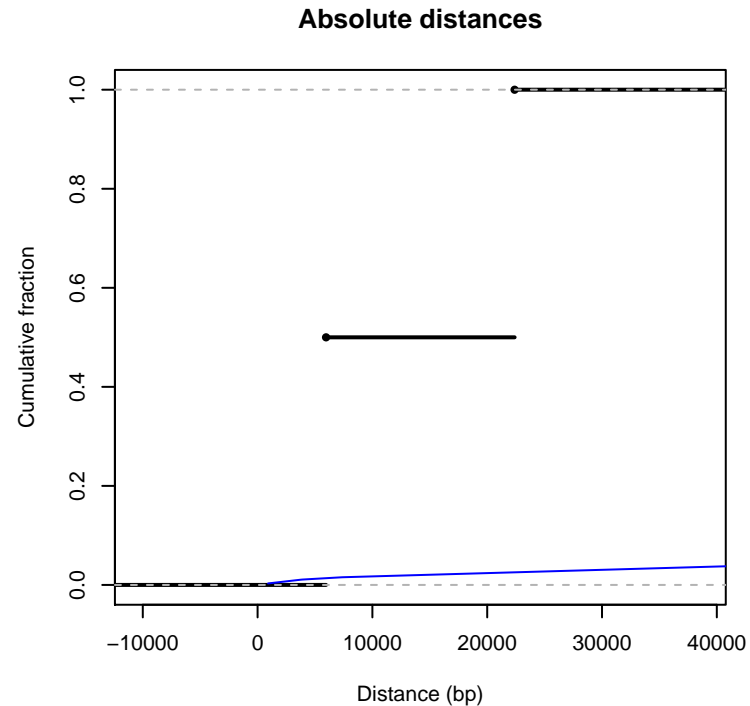
pcontig_120

Query population : 1
Reference population : 2
Relative Ks p-value : 0.0460545
Relative ecdf deviation area : 0.238556
Relative ecdf area correlation : 0.953945
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00109803
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



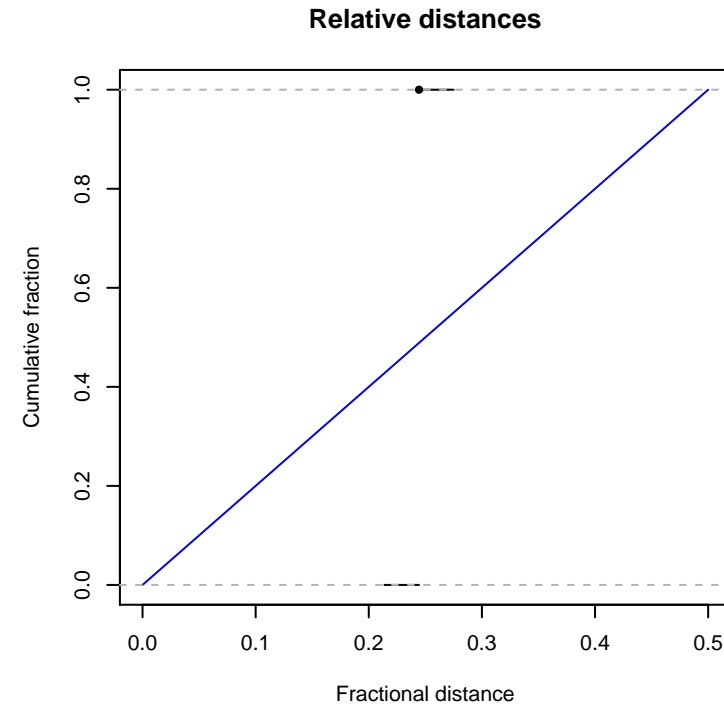
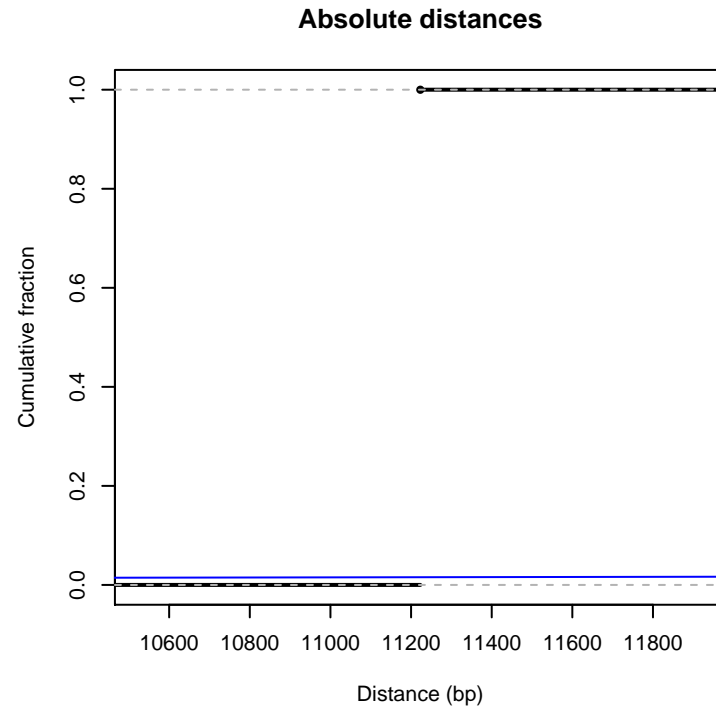
pcontig_130

Query population : 2
Reference population : 5
Relative Ks p-value : 0.558229
Relative ecdf deviation area : 0.0913817
Relative ecdf area correlation : 0.176891
Relative ecdf deviation area p-value : 0.66
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00683316
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



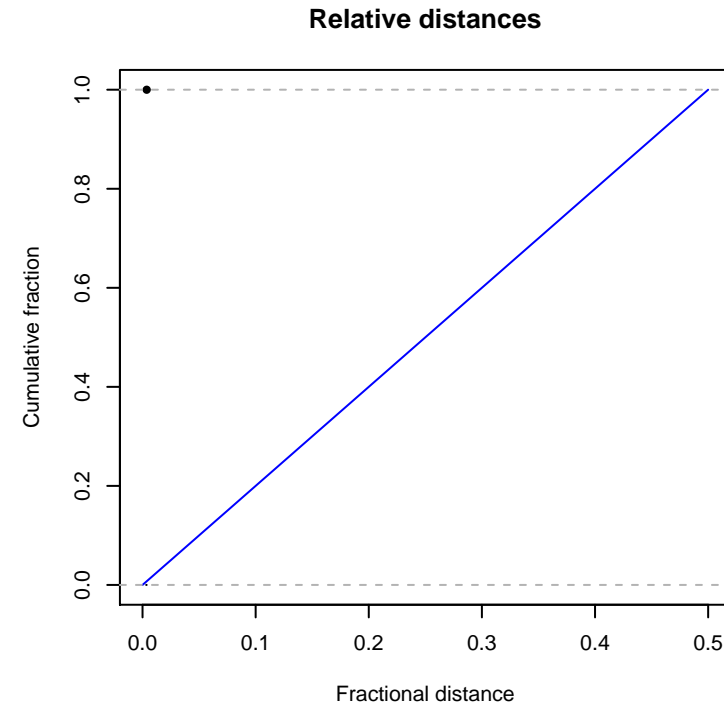
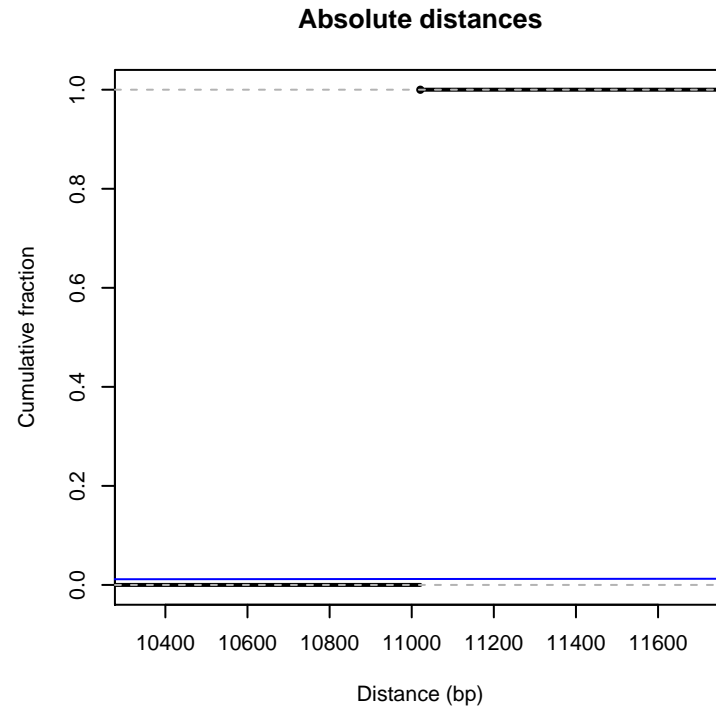
pcontig_138

Query population : 1
Reference population : 3
Relative Ks p-value : 0.977571
Relative ecdf deviation area : 0.125056
Relative ecdf area correlation : 0.0224293
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 : 0.00151357
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



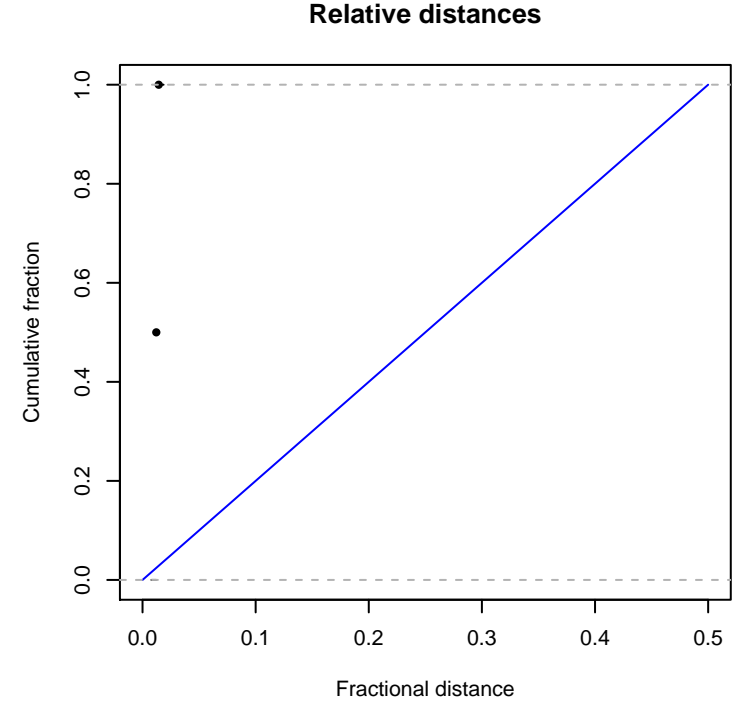
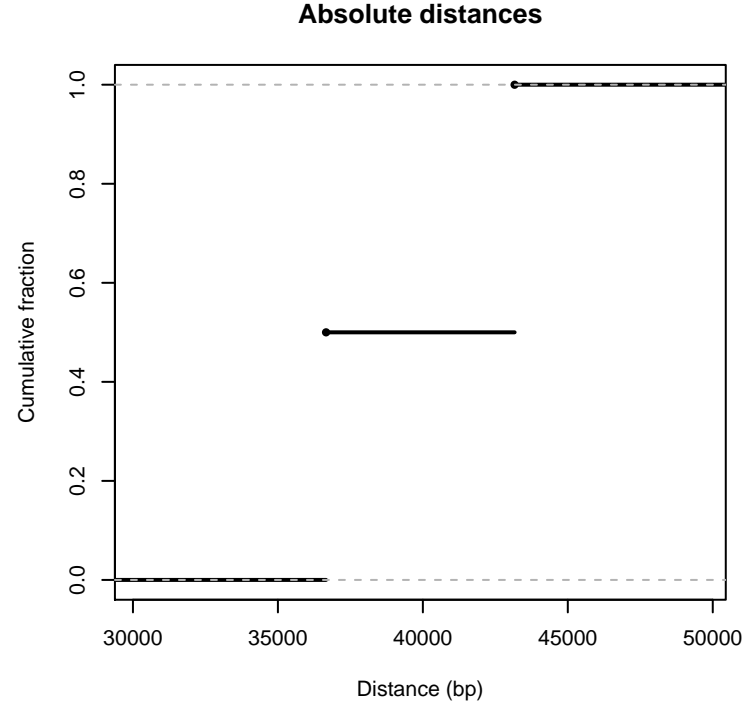
pcontig_147

Query population : 1
Reference population : 2
Relative Ks p-value : 0.0146882
Relative ecdf deviation area : 0.246924
Relative ecdf area correlation : 0.985312
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 : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00303012
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



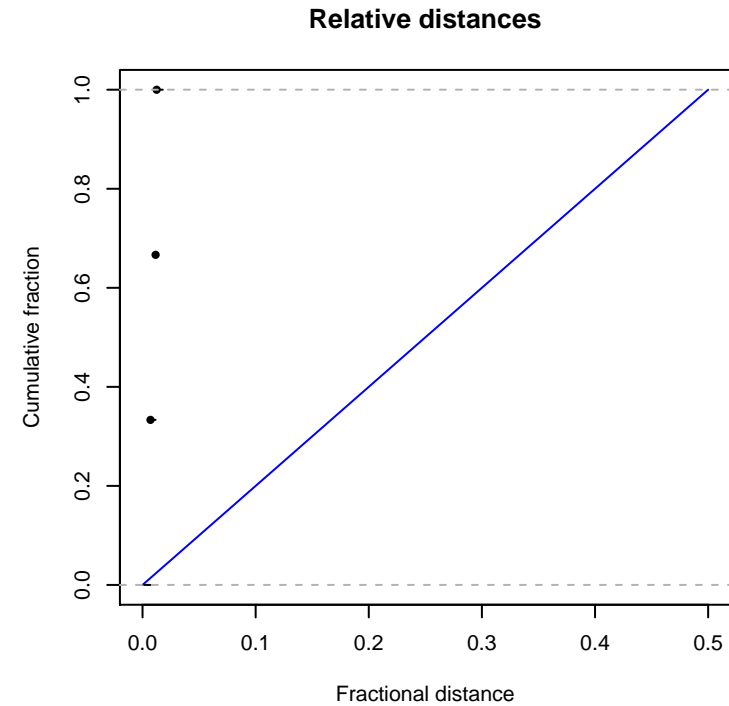
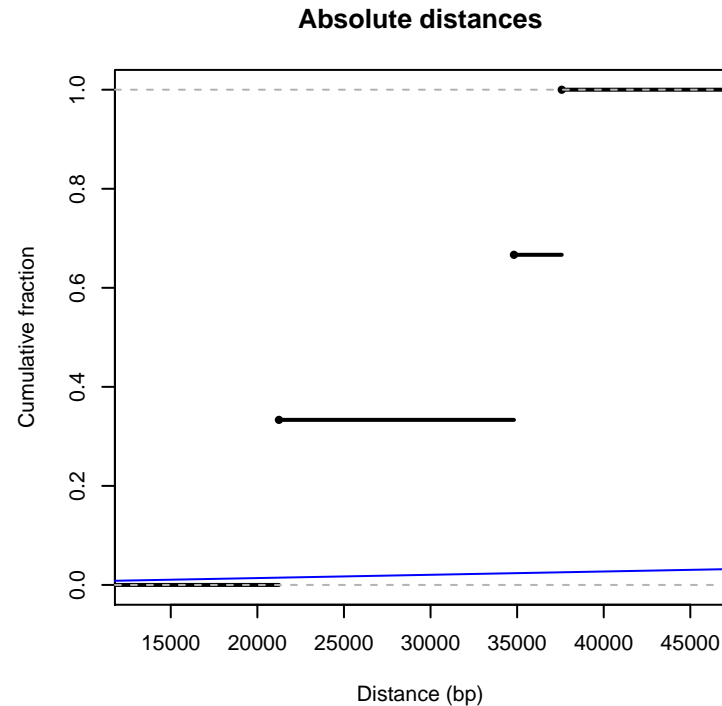
pcontig_148

Query population : 2
Reference population : 1
Relative Ks p-value : 0.00163933
Relative ecdf deviation area : 0.237283
Relative ecdf area correlation : 0.947054
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000998625
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



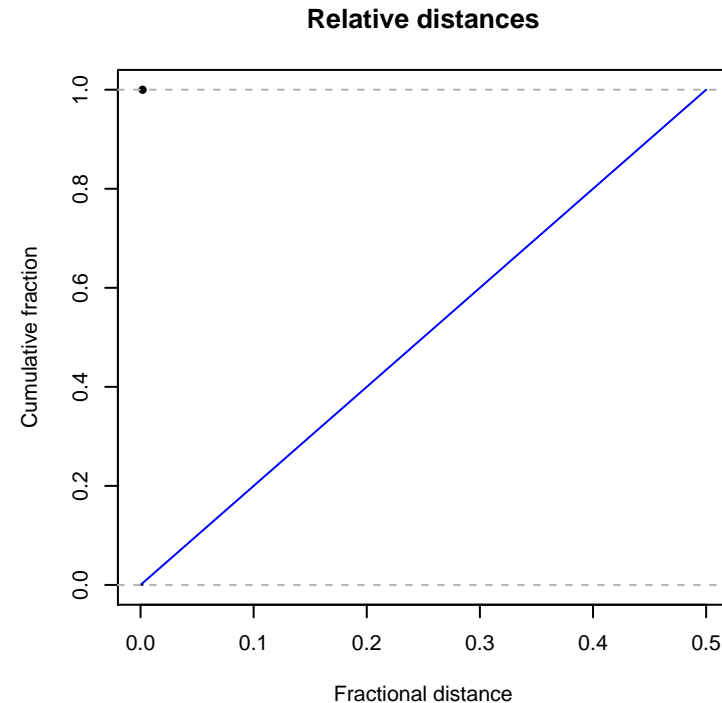
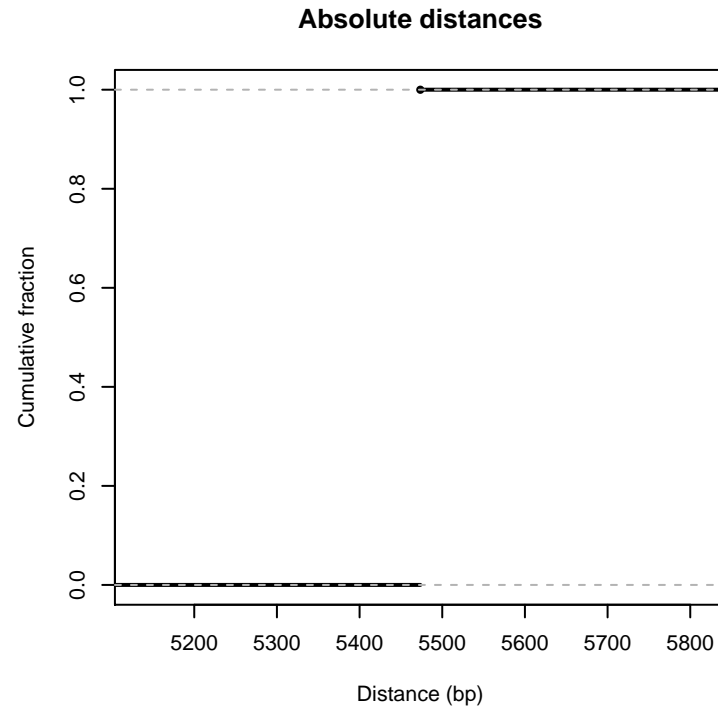
pcontig_157

Query population : 3
Reference population : 2
Relative Ks p-value : 3.10176e-05
Relative ecdf deviation area : 0.239561
Relative ecdf area correlation : 0.95857
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00254874
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



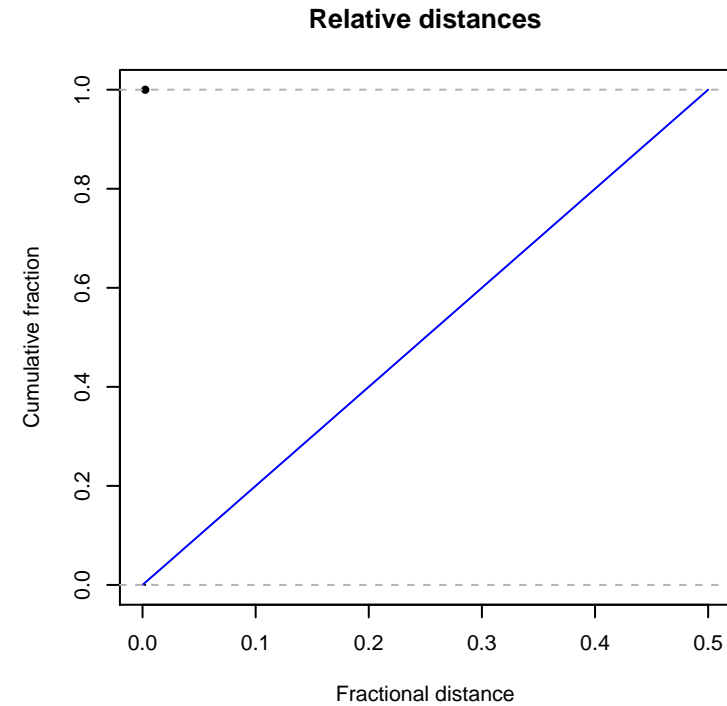
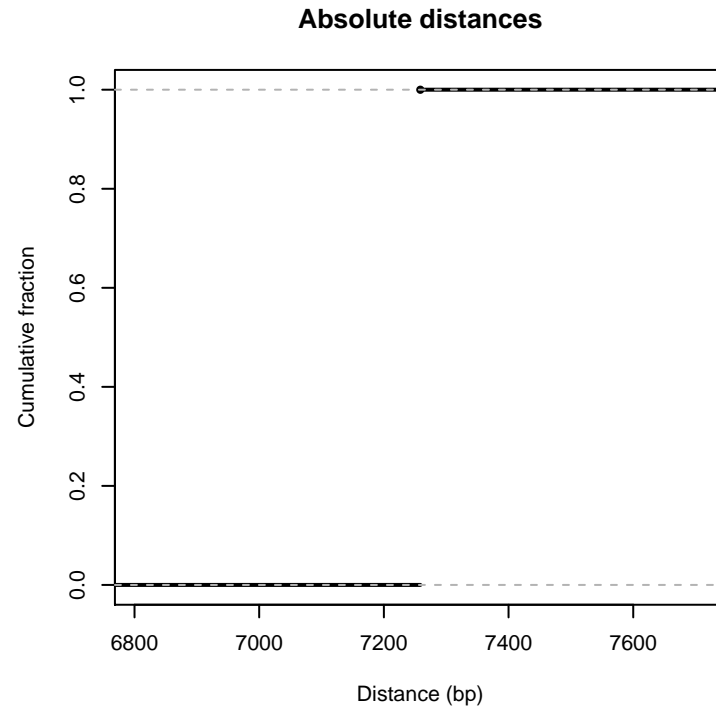
pcontig_174

Query population : 1
Reference population : 1
Relative Ks p-value : 0.00726074
Relative ecdf deviation area : 0.248621
Relative ecdf area correlation : 0.992739
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000549845
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



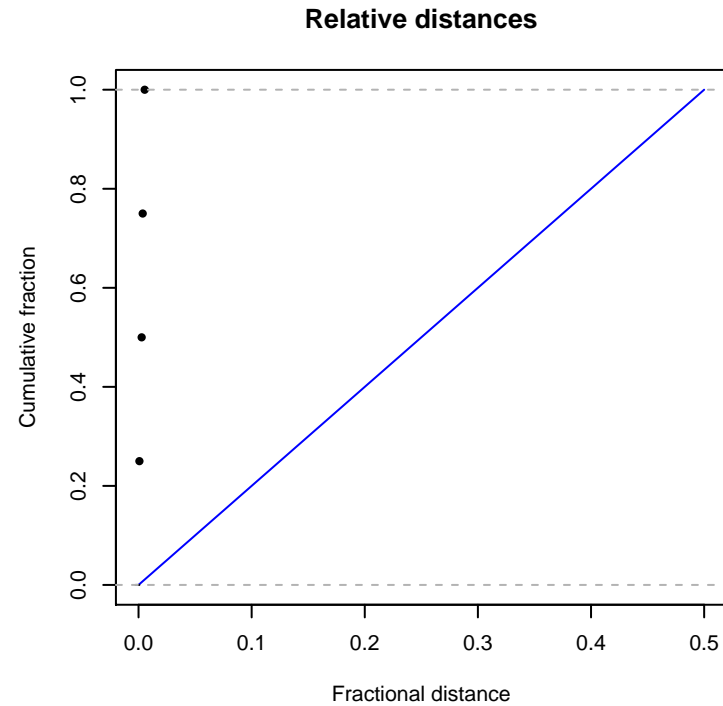
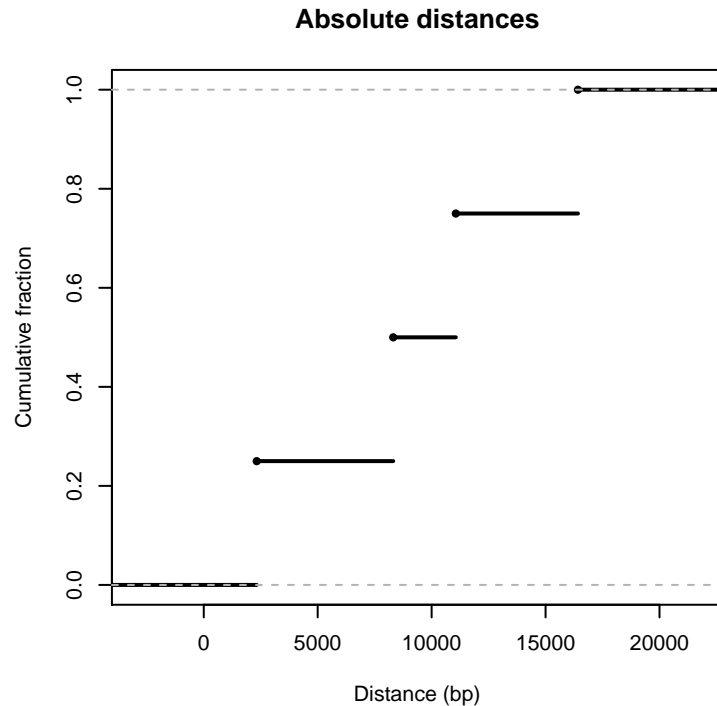
pcontig_181

Query population : 1
Reference population : 1
Relative Ks p-value : 0.00962859
Relative ecdf deviation area : 0.246924
Relative ecdf area correlation : 0.990371
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000239438
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



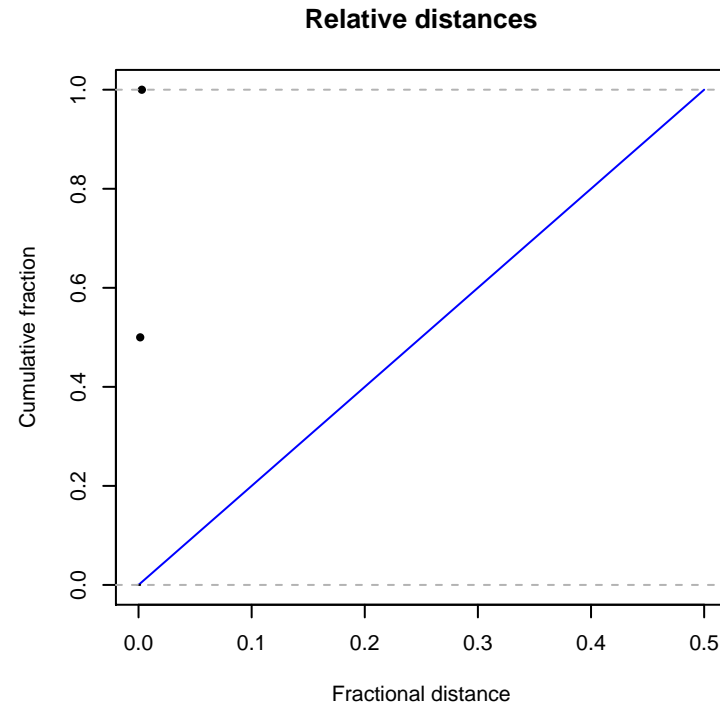
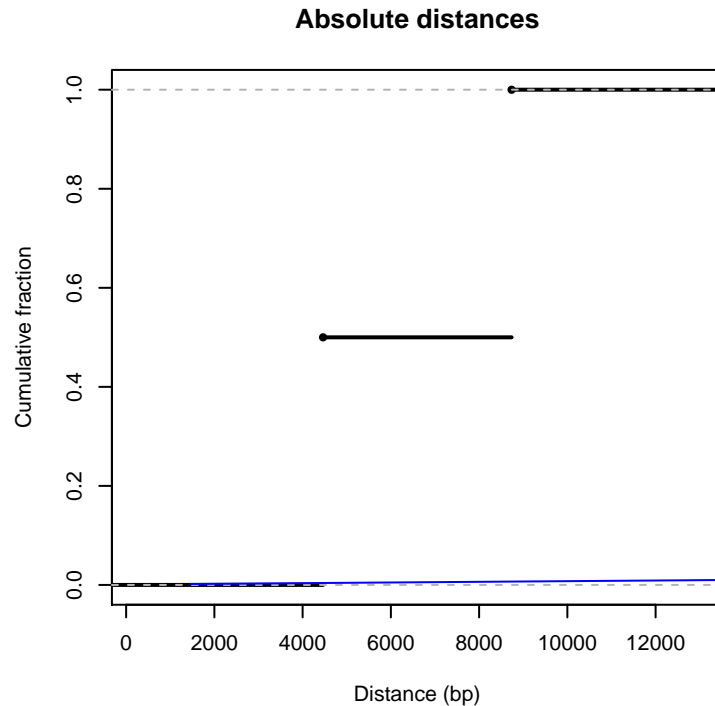
pcontig_186

Query population : 4
Reference population : 1
Relative Ks p-value : 2.81534e-08
Relative ecdf deviation area : 0.246888
Relative ecdf area correlation : 0.987357
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00284369
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



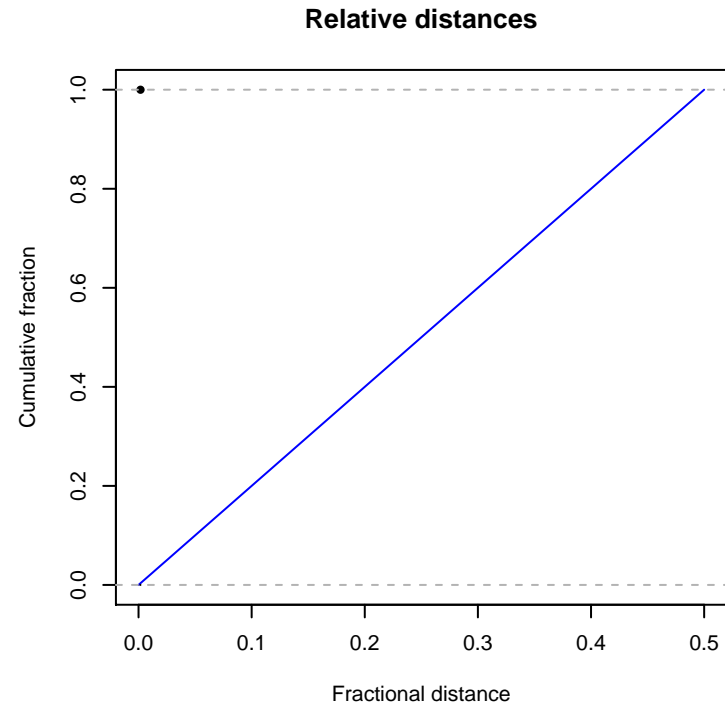
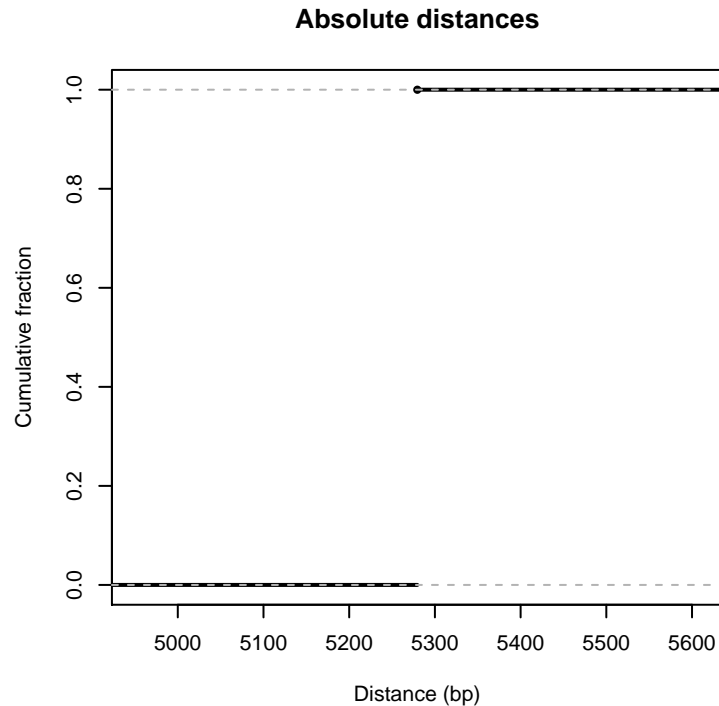
pcontig_188

Query population : 2
Reference population : 2
Relative Ks p-value : 6.72842e-05
Relative ecdf deviation area : 0.248252
Relative ecdf area correlation : 0.991236
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00364131
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



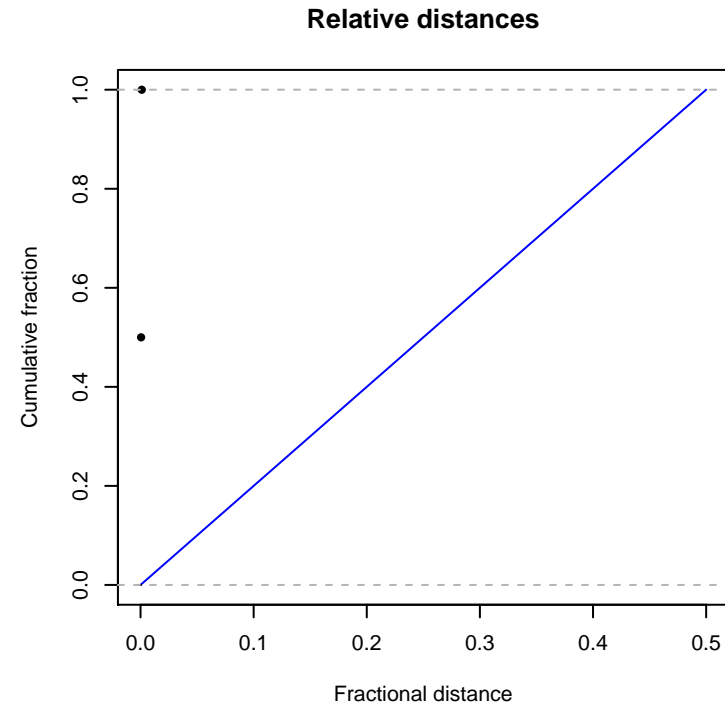
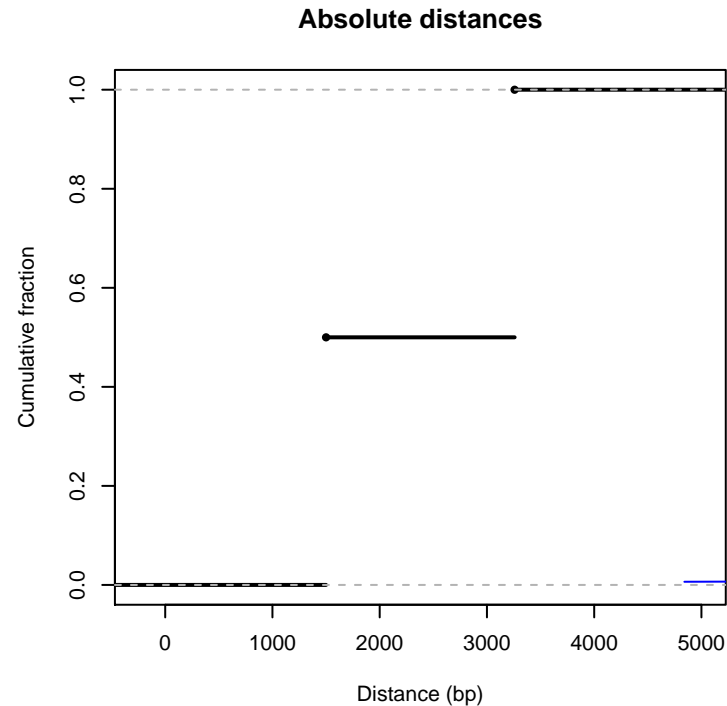
pcontig_189

Query population : 1
Reference population : 1
Relative Ks p-value : 0.0070034
Relative ecdf deviation area : 0.248621
Relative ecdf area correlation : 0.992997
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00203721
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



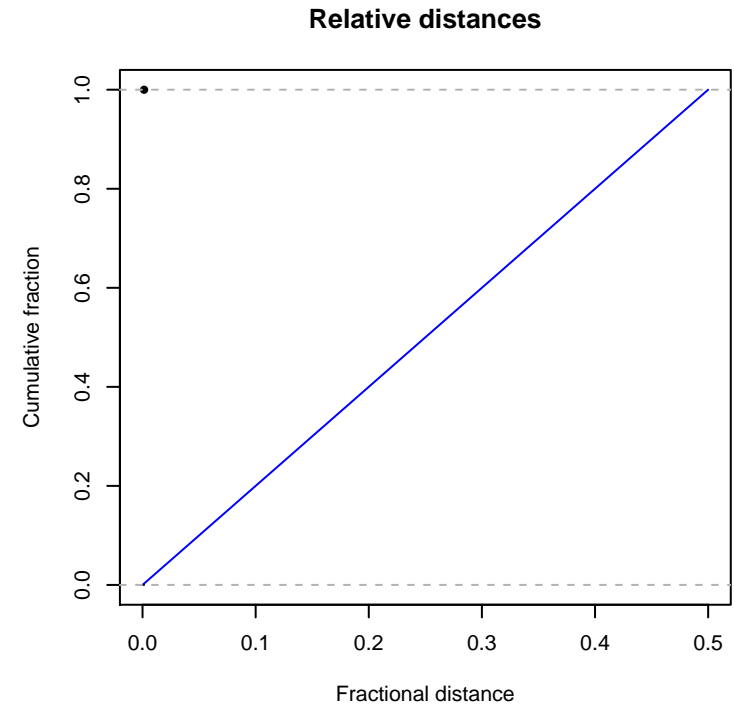
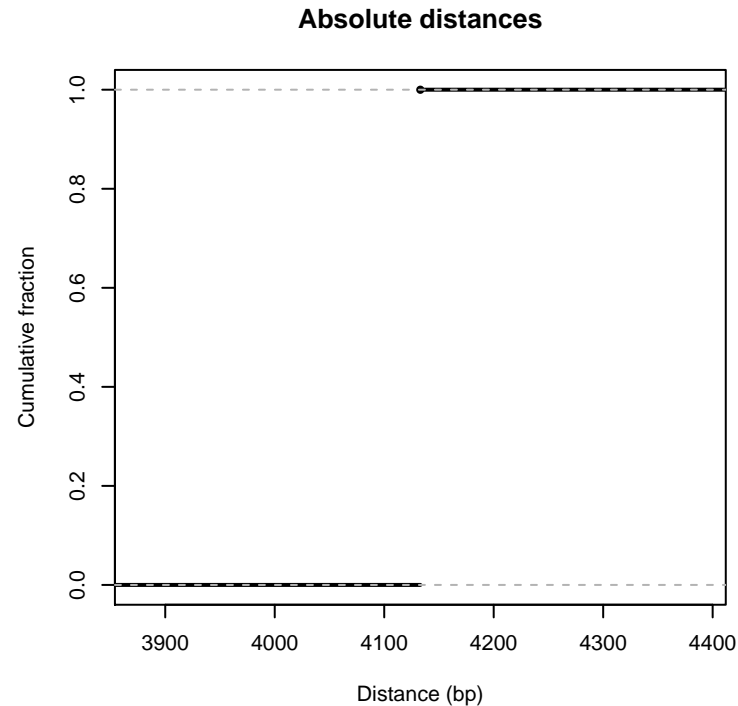
pcontig_203

Query population : 2
Reference population : 2
Relative Ks p-value : 9.39934e-06
Relative ecdf deviation area : 0.25
Relative ecdf area correlation : 0.996834
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00198814
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_233

Query population : 1
Reference population : 1
Relative Ks p-value : 0.00548253
Relative ecdf deviation area : 0.24927
Relative ecdf area correlation : 0.994517
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00131558
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



All Chromosomes

Query population : 1559
Reference population : 1432
Relative Ks p-value : 2.27596×10^{-14}
Relative ecdf deviation area : 0.0353128
Relative ecdf area correlation : 0.140073
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 3.72813×10^{-8}
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0

