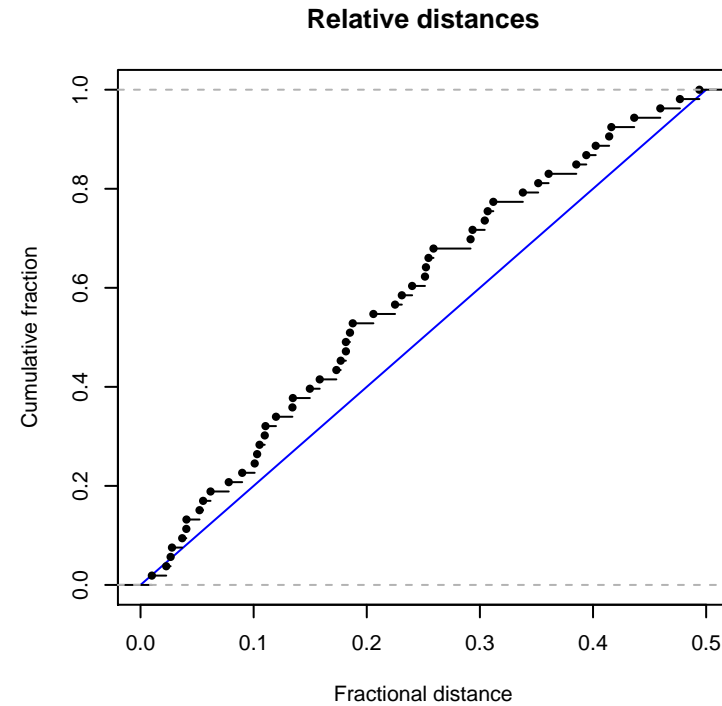
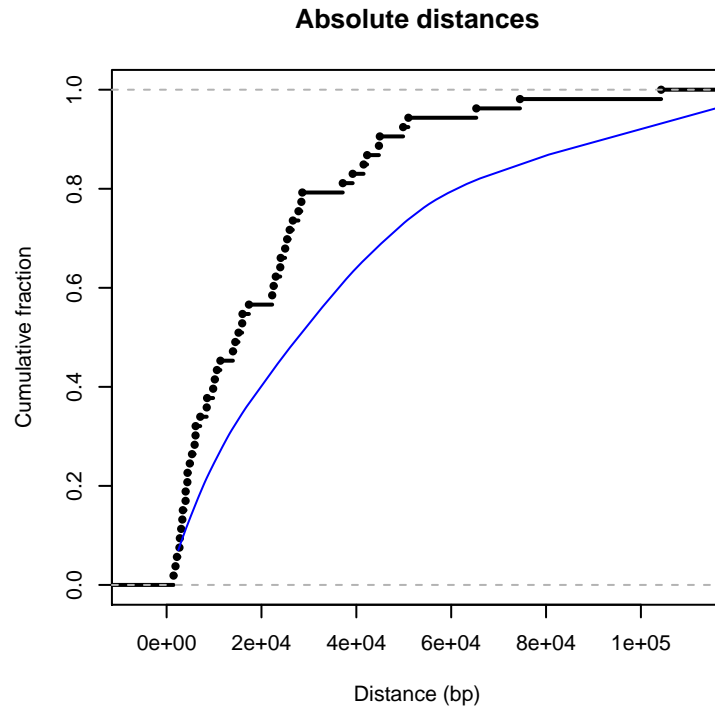


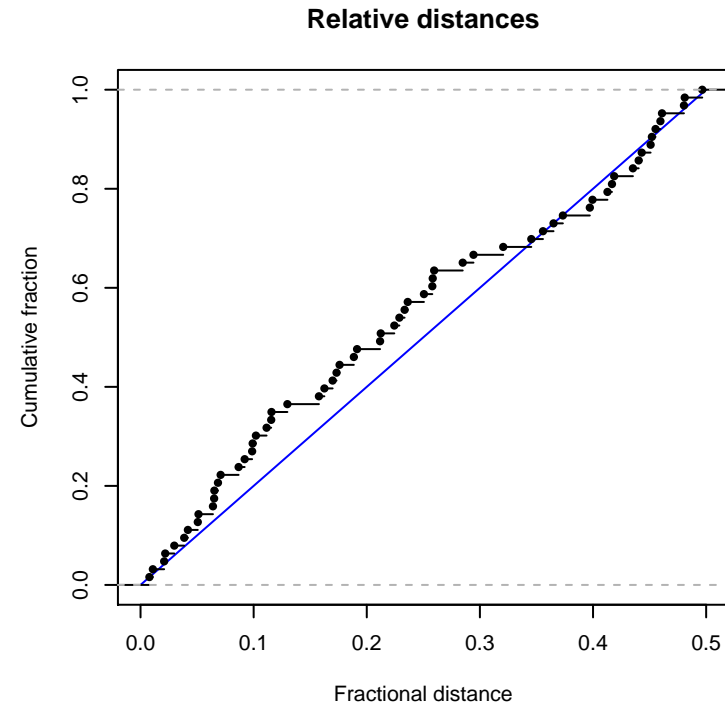
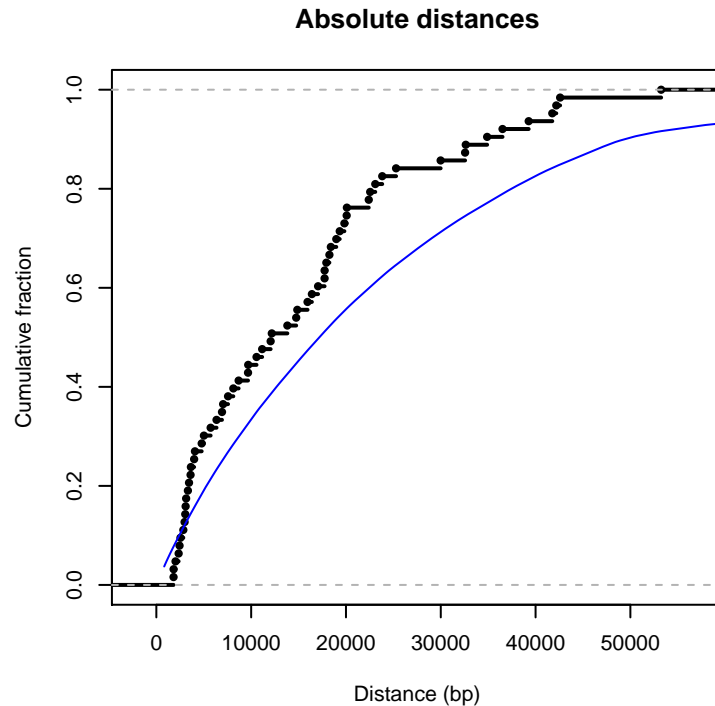
pcontig_000

Query population : 53
Reference population : 43
Relative Ks p-value : 0.113425
Relative ecdf deviation area : 0.039337
Relative ecdf area correlation : 0.153879
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 : 0.05
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.495058
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



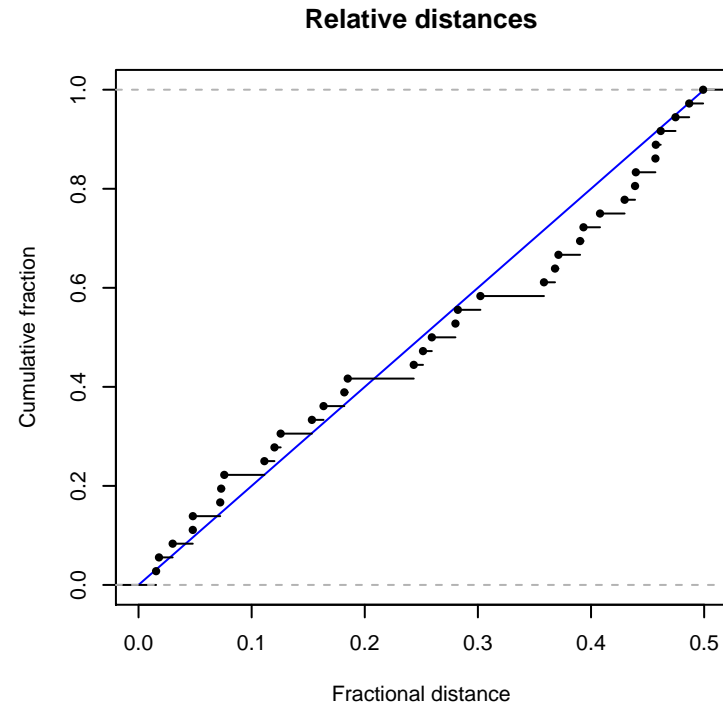
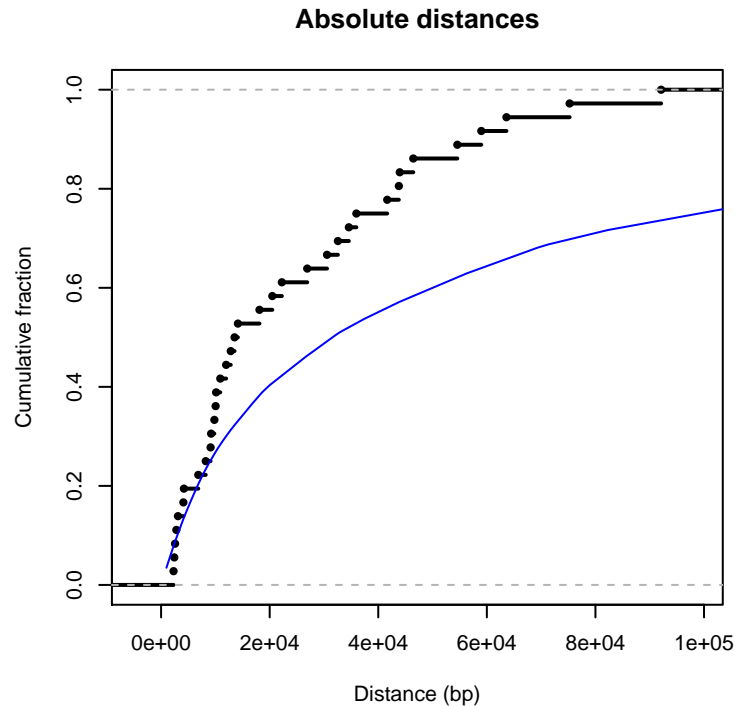
pcontig_001

Query population : 63
Reference population : 68
Relative Ks p-value : 0.321916
Relative ecdf deviation area : 0.0234353
Relative ecdf area correlation : 0.0736236
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 : 0.03
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.229614
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



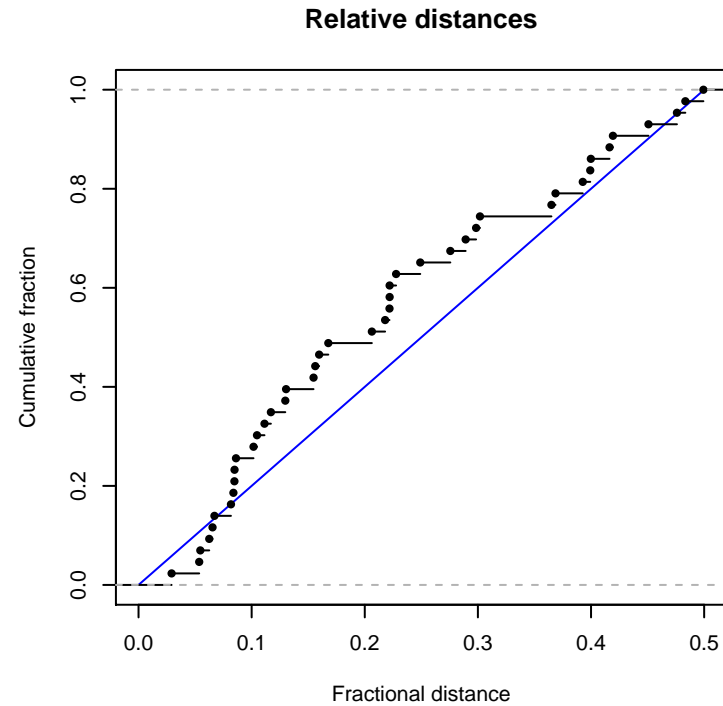
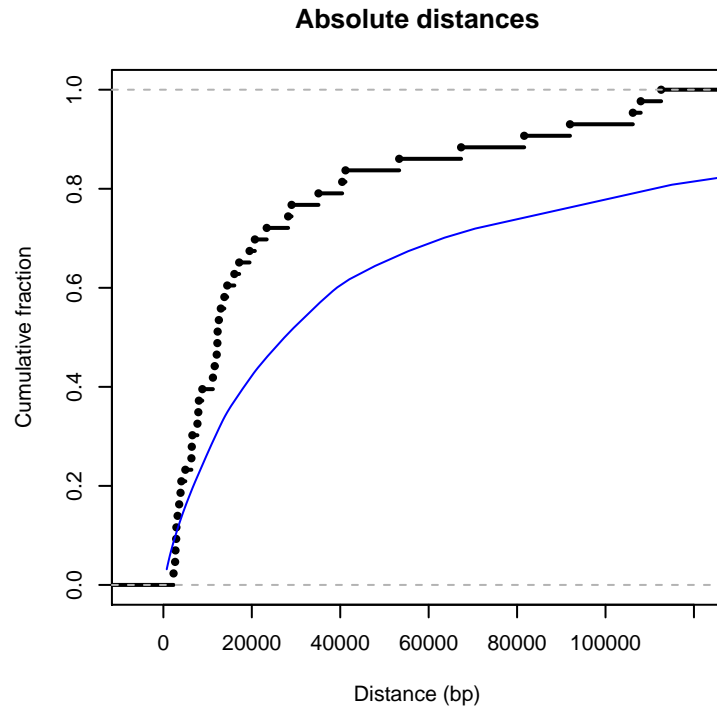
pcontig_002

Query population : 36
Reference population : 53
Relative Ks p-value : 0.500875
Relative ecdf deviation area : 0.0208146
Relative ecdf area correlation : -0.052695
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 : 0.08
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.479431
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



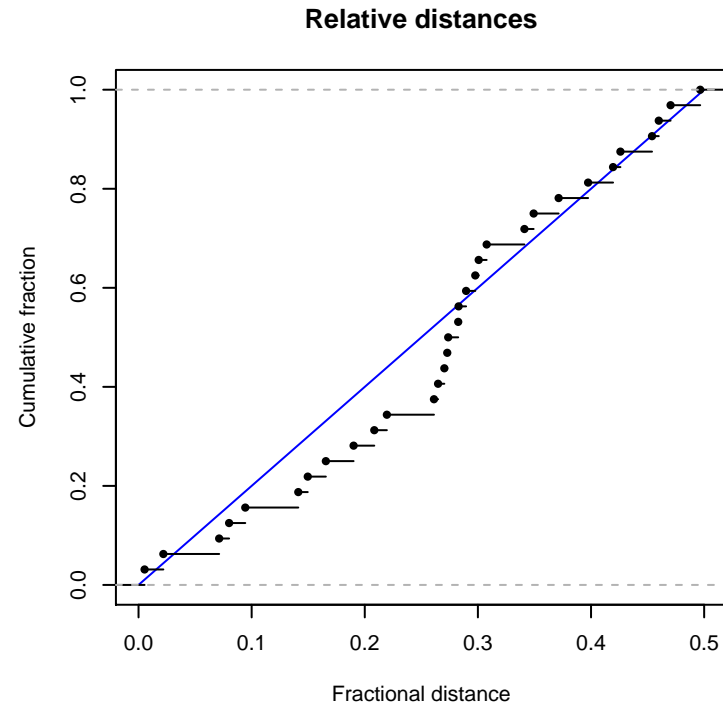
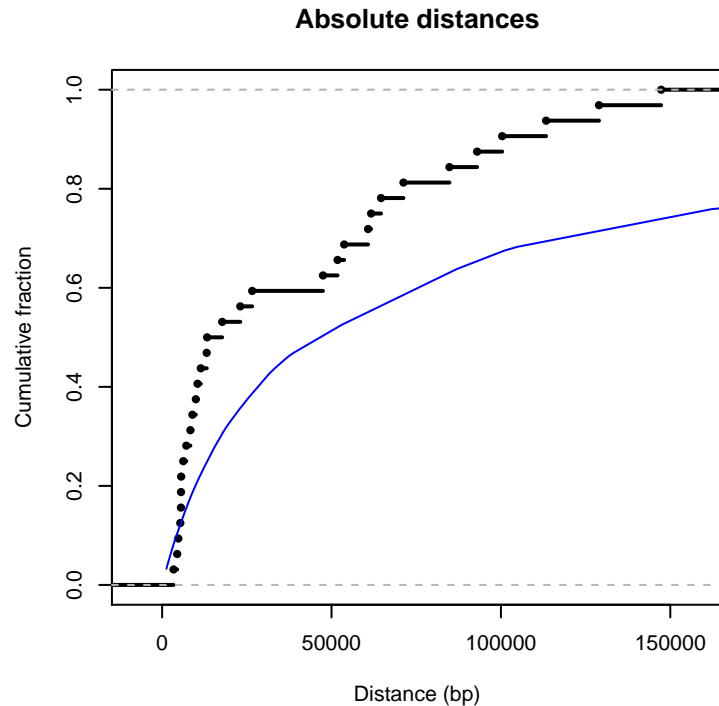
pcontig_003

Query population : 43
Reference population : 63
Relative Ks p-value : 0.137169
Relative ecdf deviation area : 0.0365375
Relative ecdf area correlation : 0.117247
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 : 0.03
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.383097
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



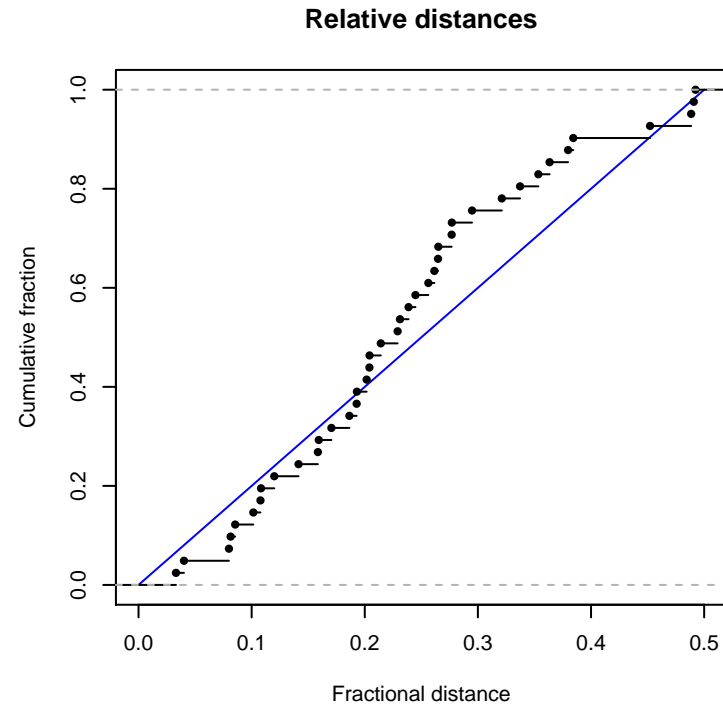
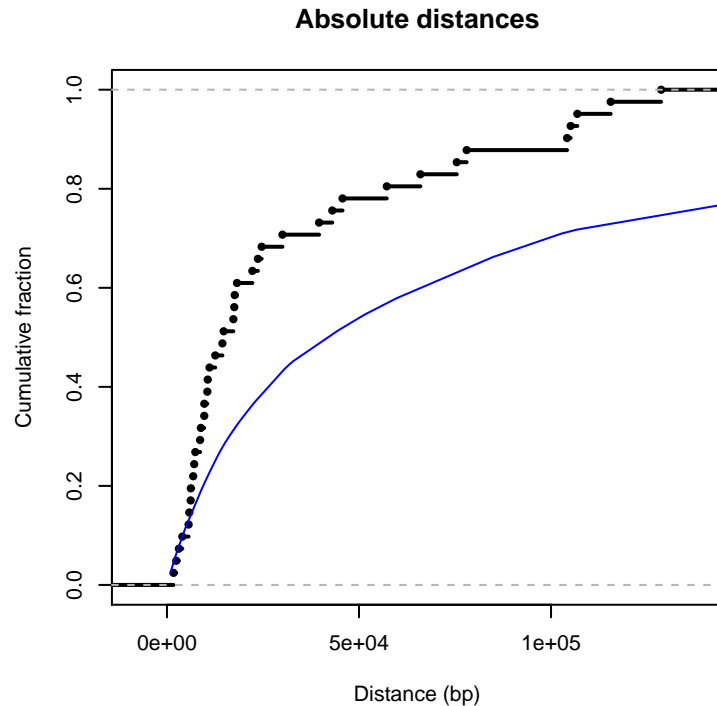
pcontig_004

Query population : 32
Reference population : 39
Relative Ks p-value : 0.230217
Relative ecdf deviation area : 0.0273971
Relative ecdf area correlation : -0.0796238
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 : 0.19
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.425243
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



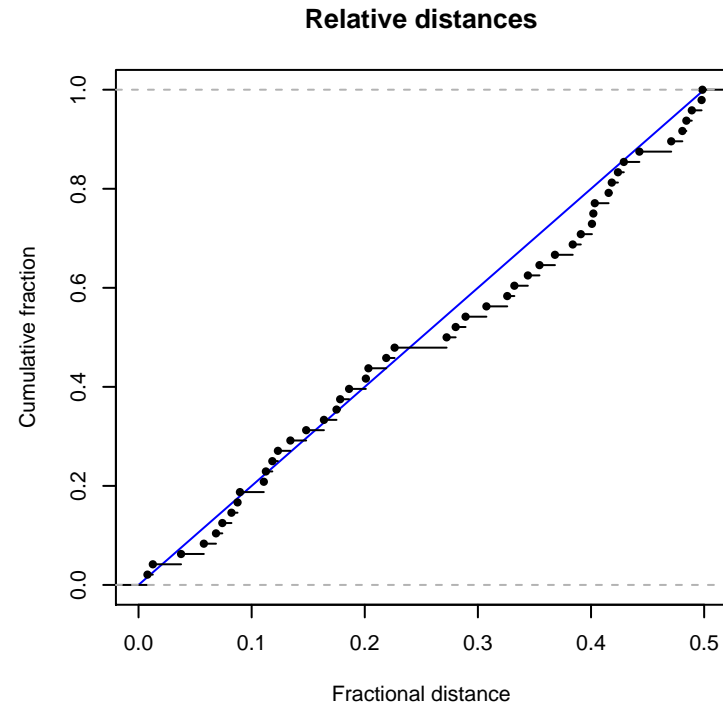
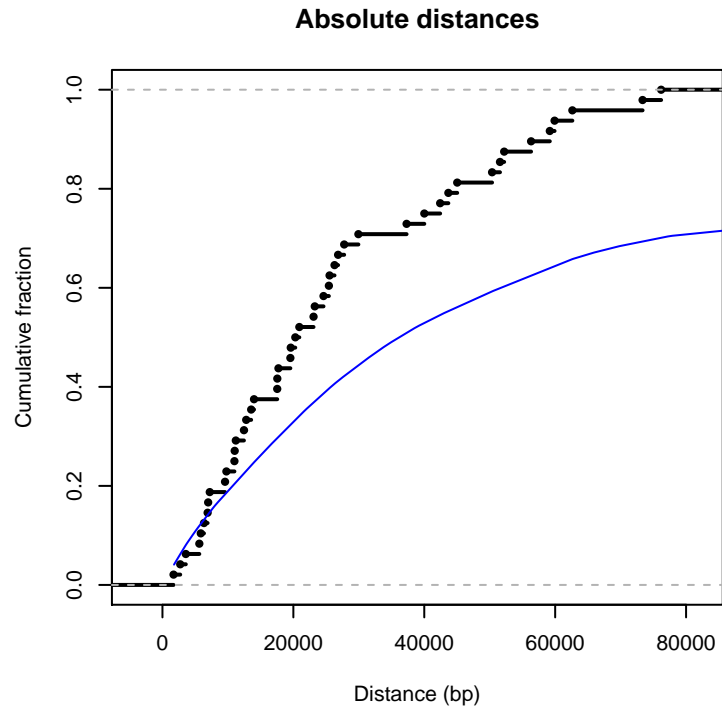
pcontig_005

Query population : 41
Reference population : 41
Relative Ks p-value : 0.132285
Relative ecdf deviation area : 0.0348549
Relative ecdf area correlation : 0.0549511
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 : 0.13
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.44524
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



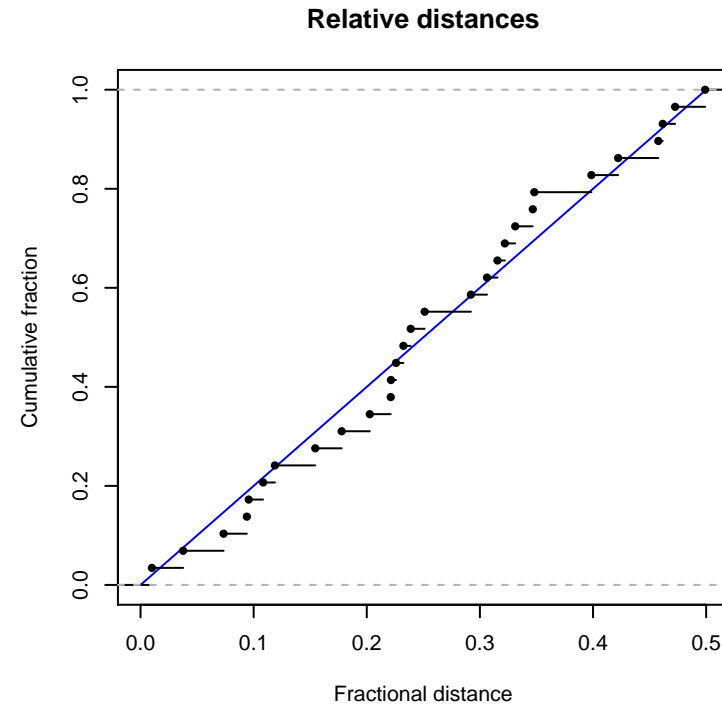
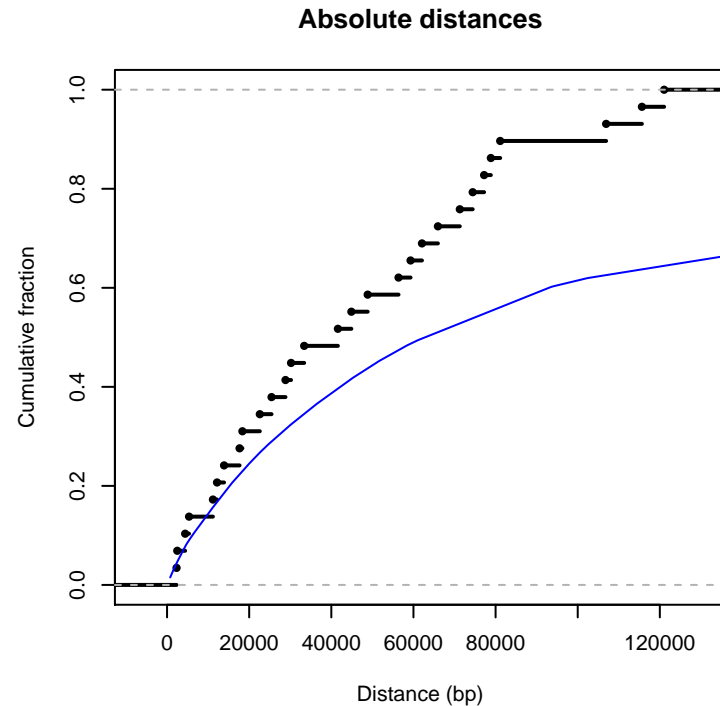
pcontig_006

Query population : 48
Reference population : 35
Relative Ks p-value : 0.673819
Relative ecdf deviation area : 0.0173839
Relative ecdf area correlation : -0.0603163
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 : 0.12
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.477994
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



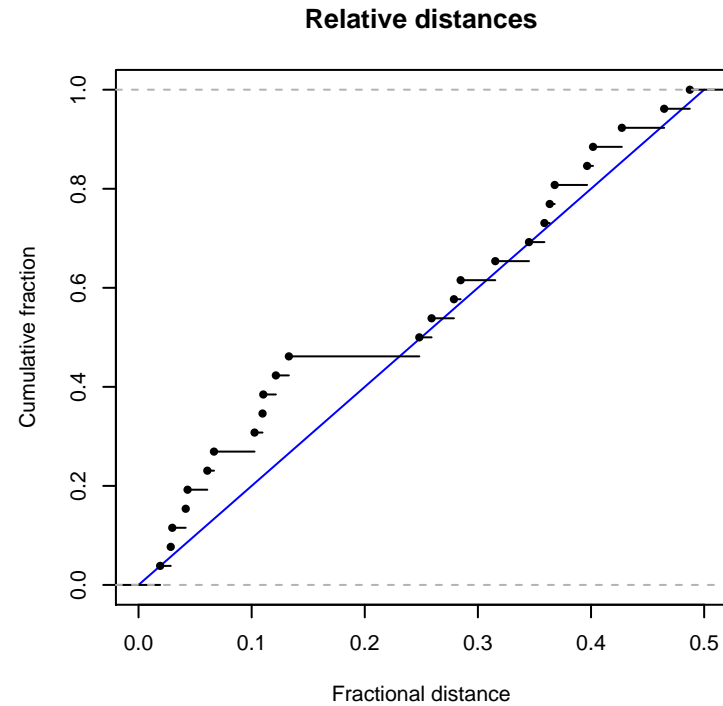
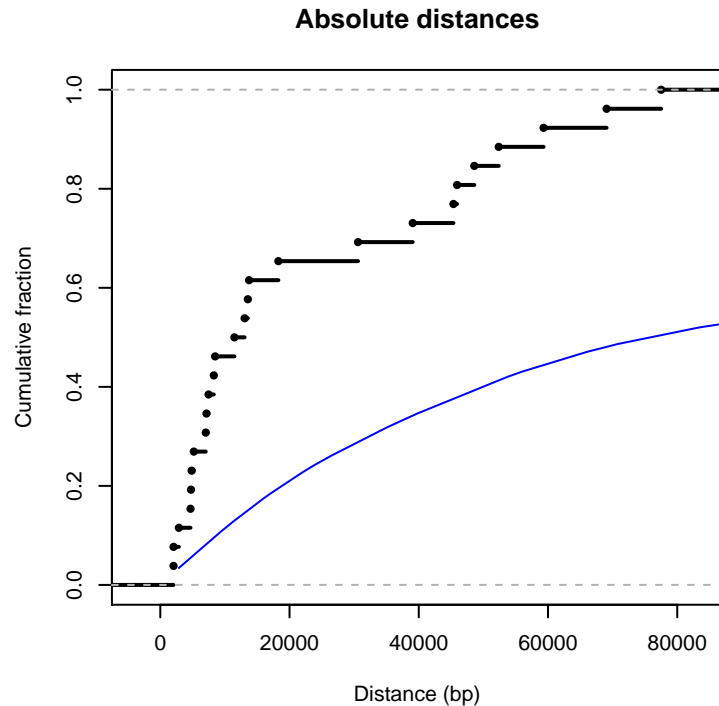
pcontig_007

Query population : 29
Reference population : 30
Relative Ks p-value : 0.920668
Relative ecdf deviation area : 0.0164918
Relative ecdf area correlation : -0.0258542
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 : 0.4
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.231438
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



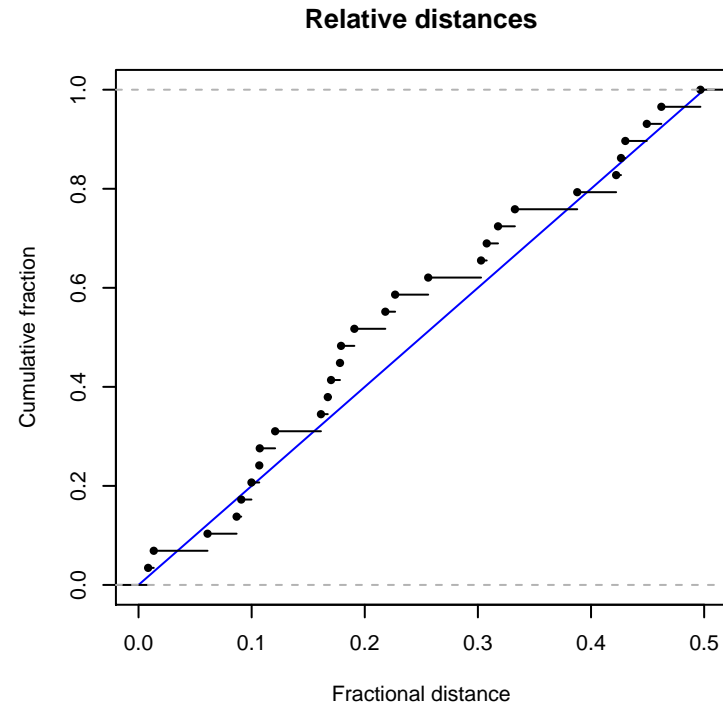
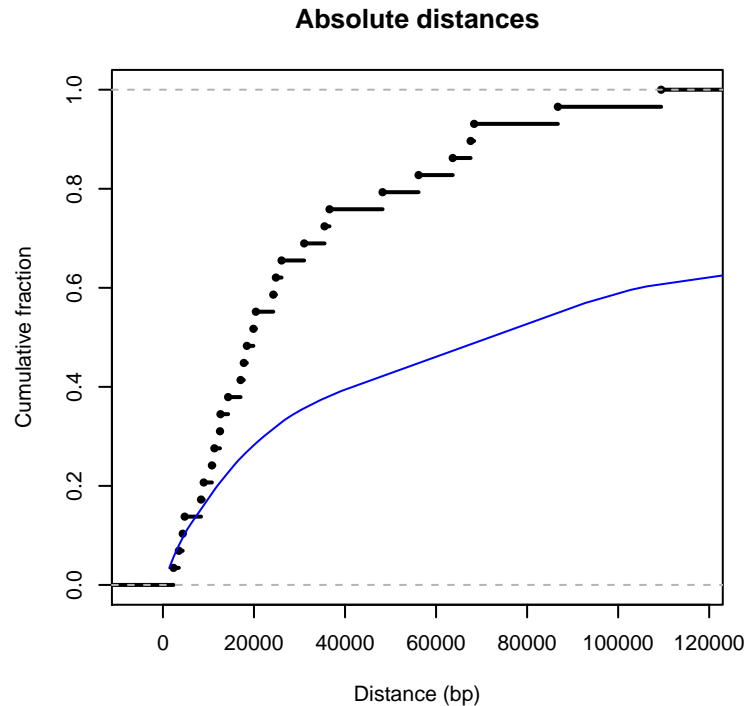
pcontig_008

Query population : 26
Reference population : 18
Relative Ks p-value : 0.238912
Relative ecdf deviation area : 0.0279672
Relative ecdf area correlation : 0.0975539
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 : 0.5
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.211307
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



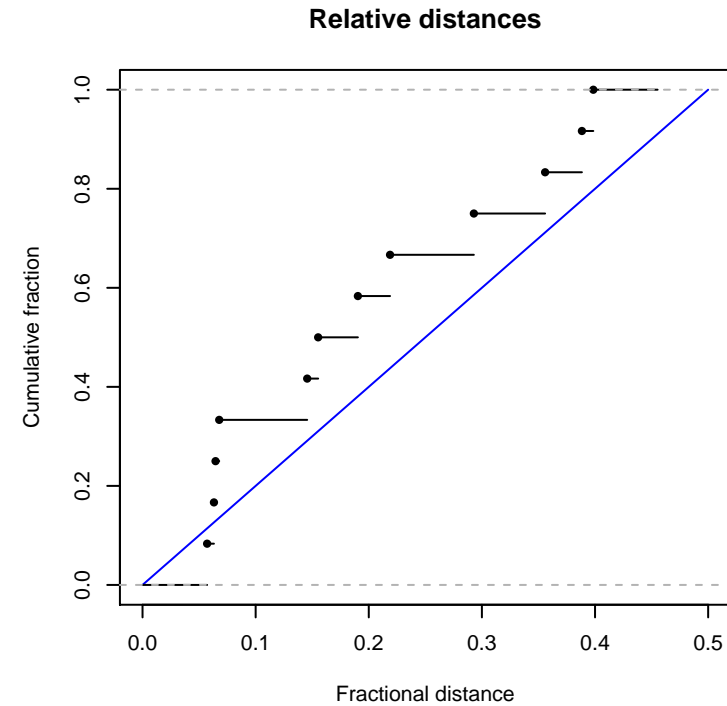
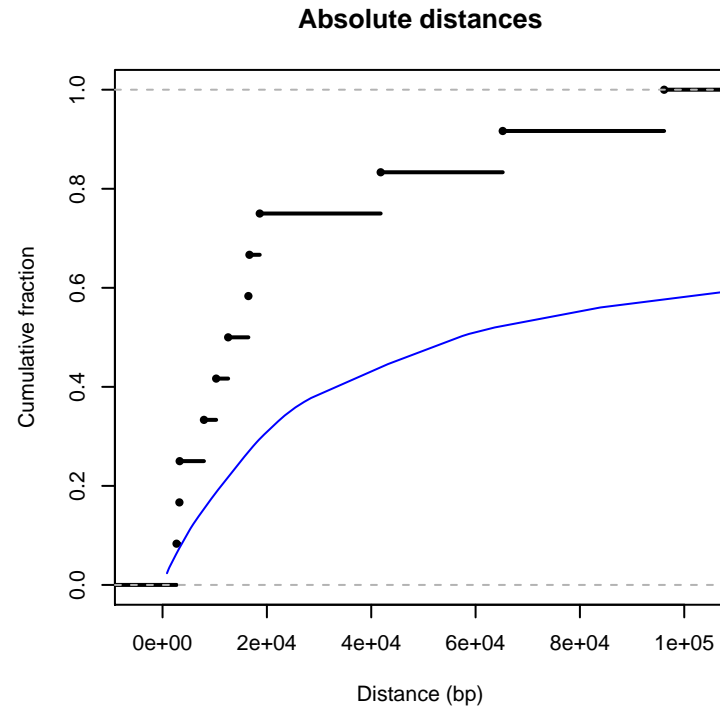
pcontig_009

Query population : 29
Reference population : 37
Relative Ks p-value : 0.612077
Relative ecdf deviation area : 0.0227654
Relative ecdf area correlation : 0.0649842
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 : 0.25
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.393399
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



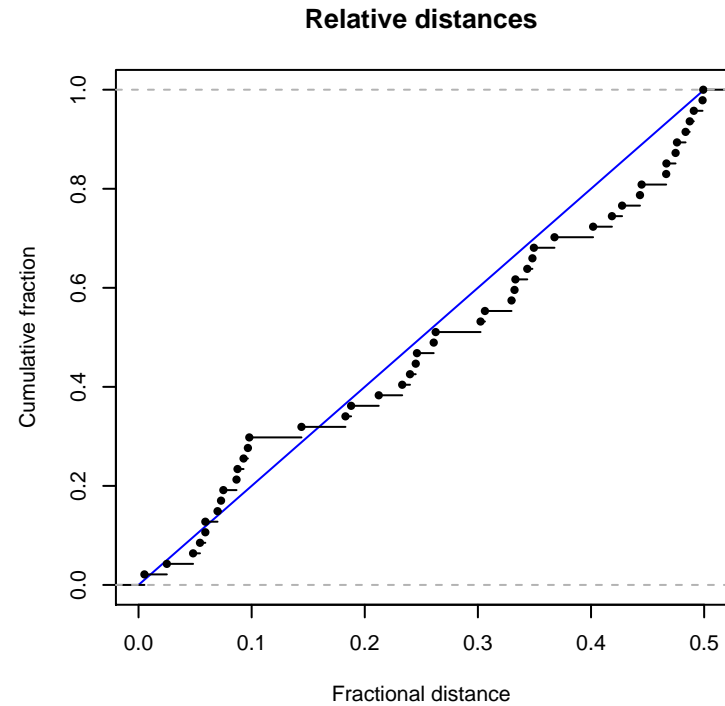
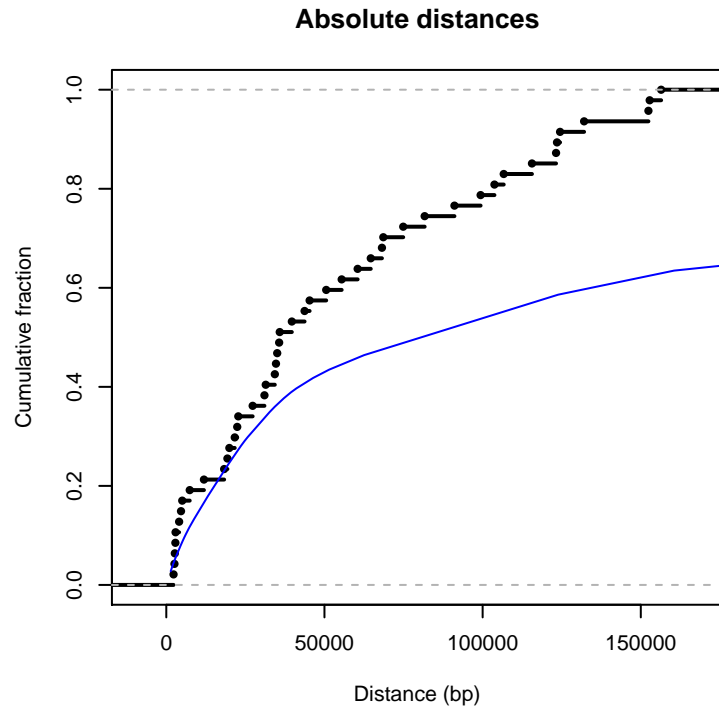
pcontig_010

Query population : 12
Reference population : 42
Relative Ks p-value : 0.484991
Relative ecdf deviation area : 0.0570024
Relative ecdf area correlation : 0.200591
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 : 0.35
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.110432
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



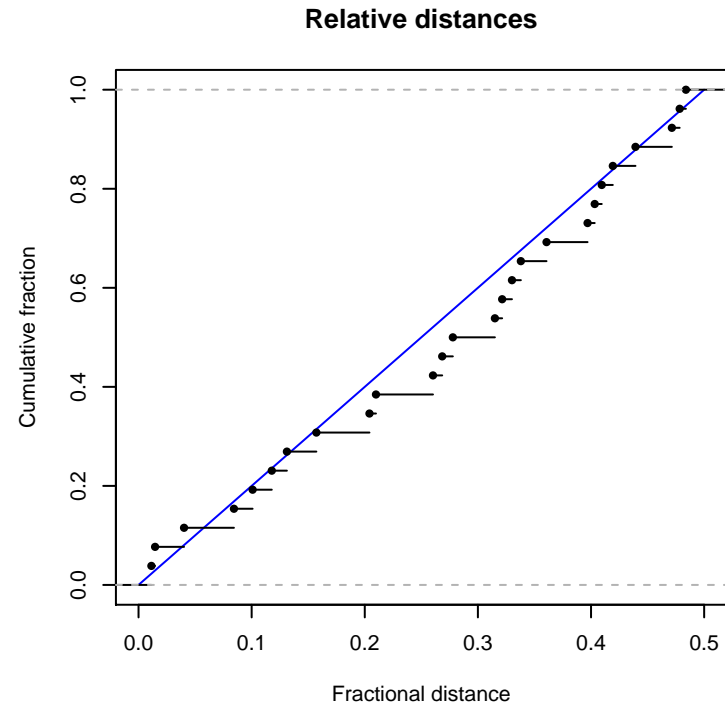
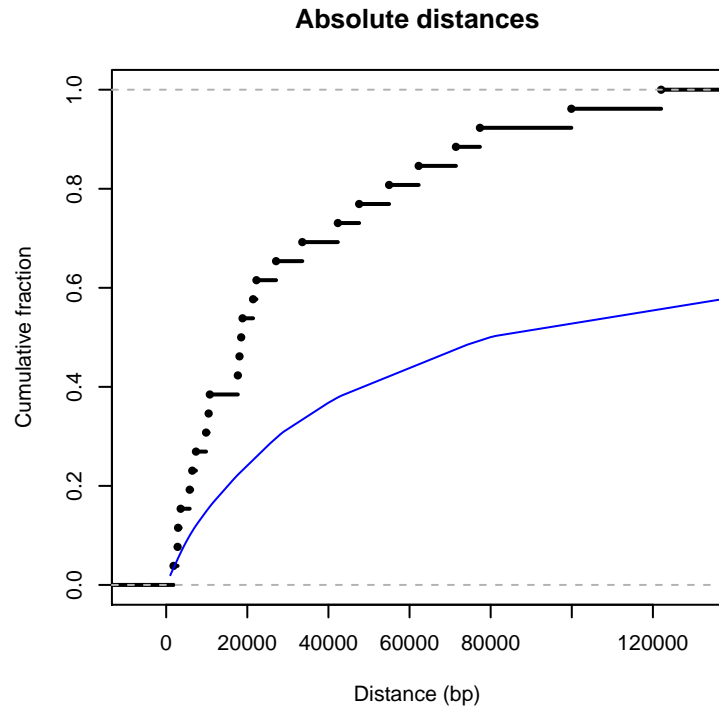
pcontig_011

Query population : 47
Reference population : 30
Relative Ks p-value : 0.426833
Relative ecdf deviation area : 0.0263932
Relative ecdf area correlation : -0.0755115
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 : 0.16
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.472204
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



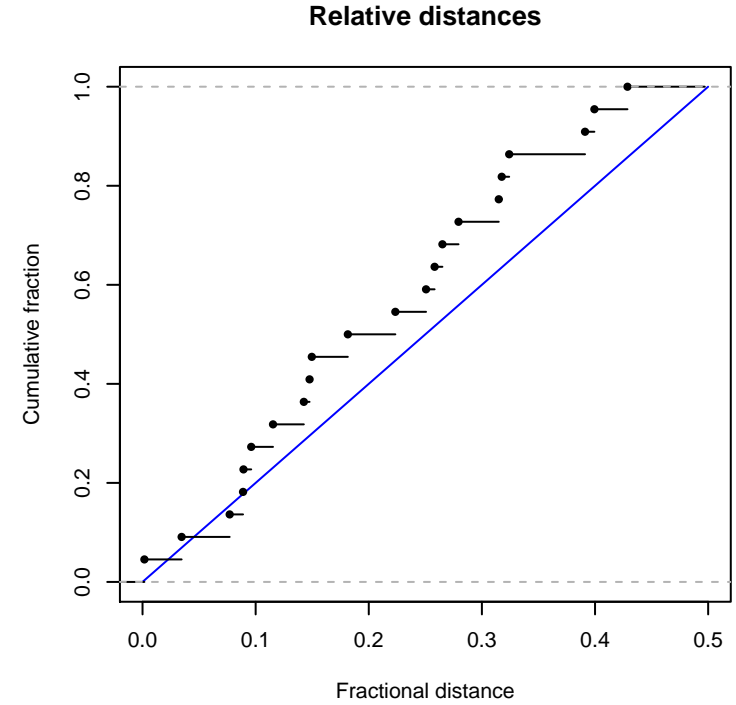
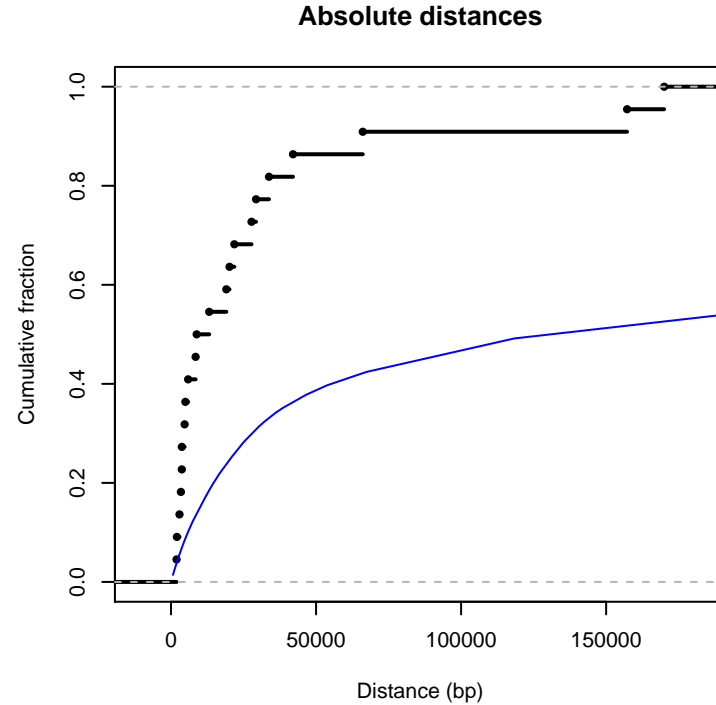
pcontig_012

Query population : 26
Reference population : 29
Relative Ks p-value : 0.672783
Relative ecdf deviation area : 0.0234258
Relative ecdf area correlation : -0.0839036
Relative ecdf deviation area p-value : 0.71
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.49
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.19653
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



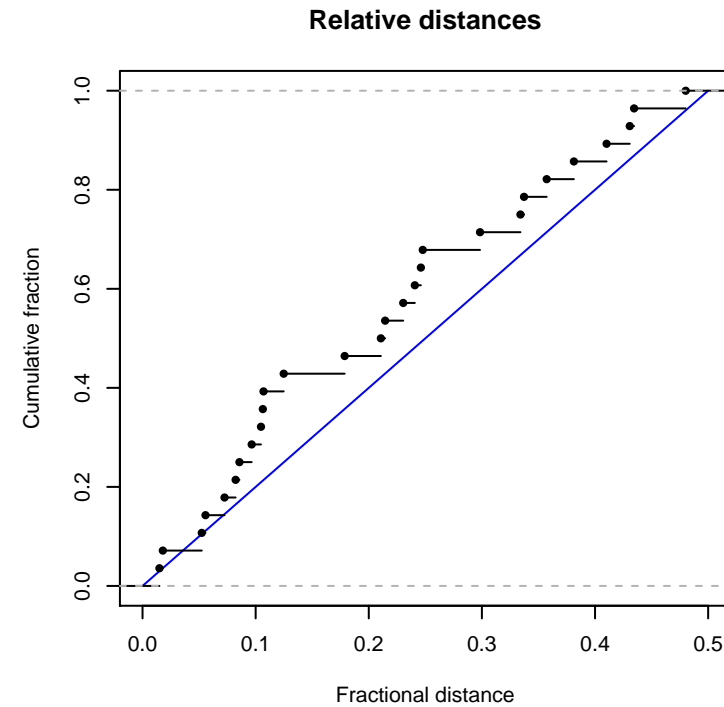
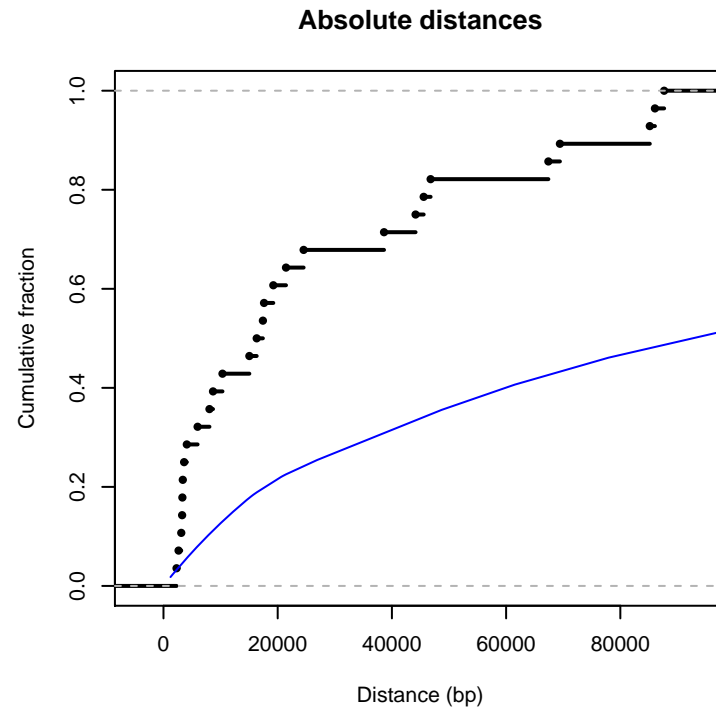
pcontig_013

Query population : 22
Reference population : 32
Relative Ks p-value : 0.224358
Relative ecdf deviation area : 0.0447505
Relative ecdf area correlation : 0.167862
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 : 0.47
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.206571
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



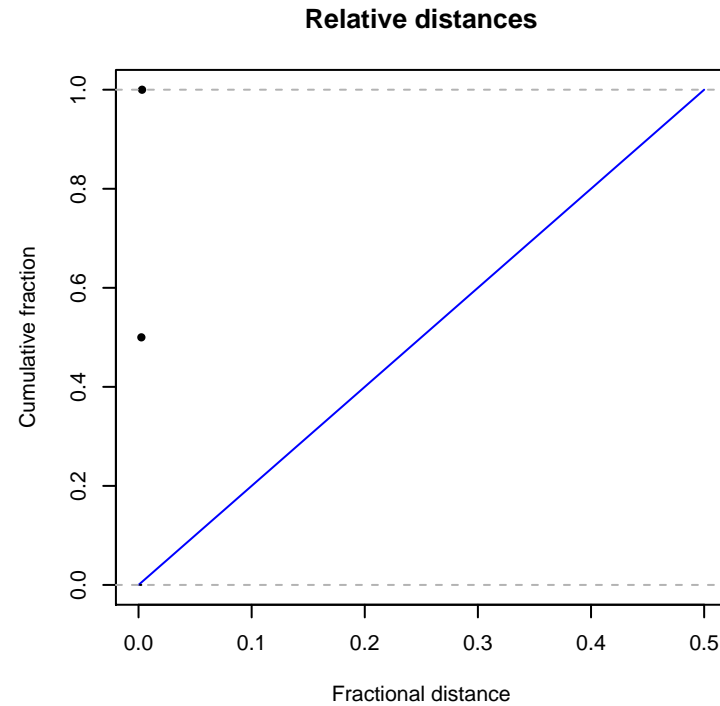
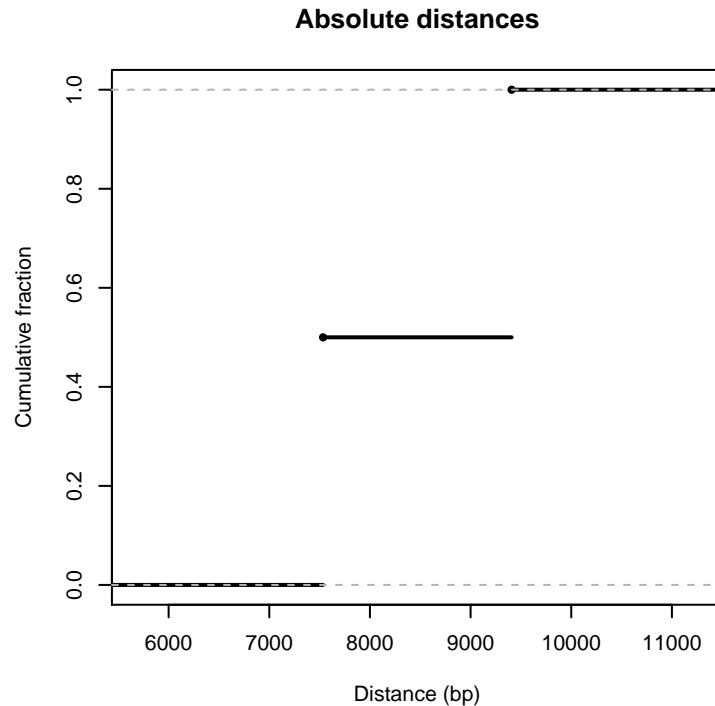
pcontig_014

Query population : 28
Reference population : 22
Relative Ks p-value : 0.269888
Relative ecdf deviation area : 0.0385408
Relative ecdf area correlation : 0.149558
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 : 0.49
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.188468
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



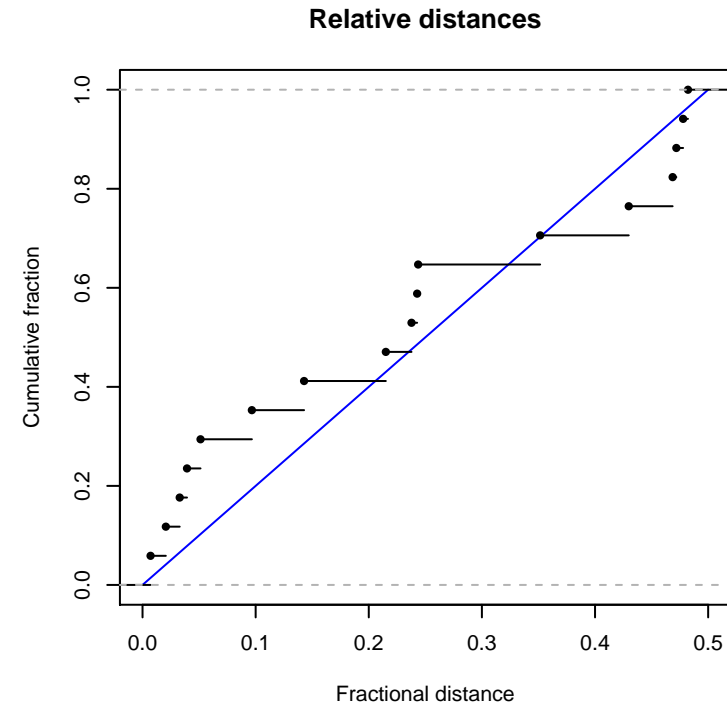
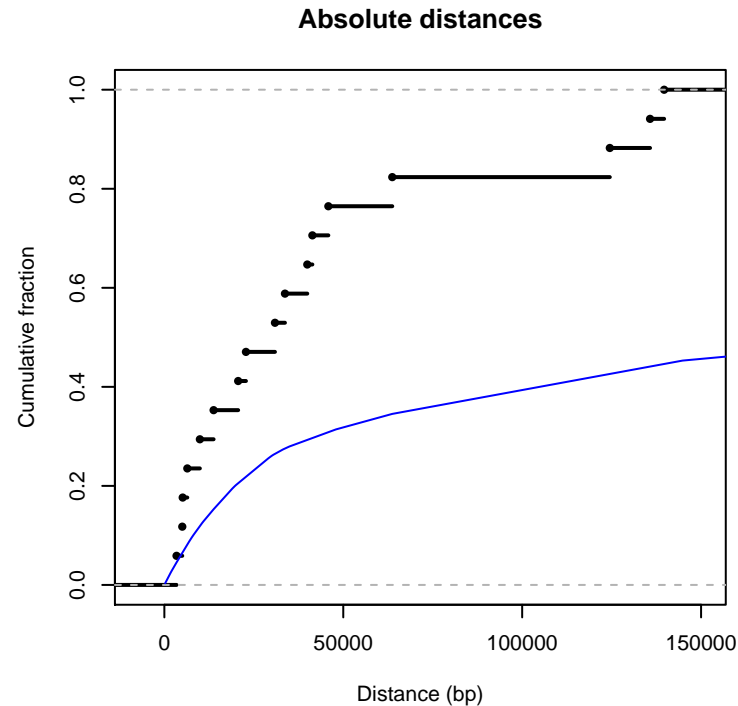
pcontig_015

Query population : 2
Reference population : 1
Relative Ks p-value : 7.78664e-05
Relative ecdf deviation area : 0.246924
Relative ecdf area correlation : 0.988763
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 : 0.000340225
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



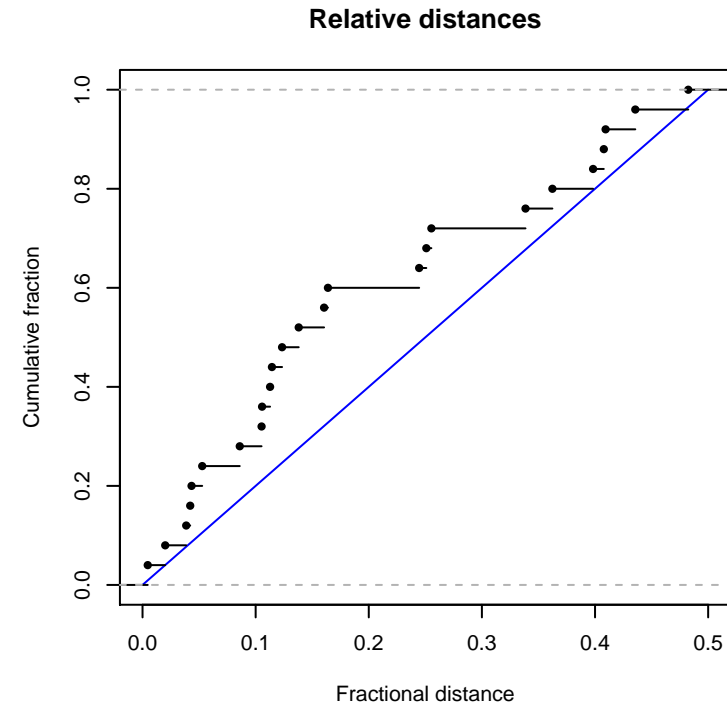
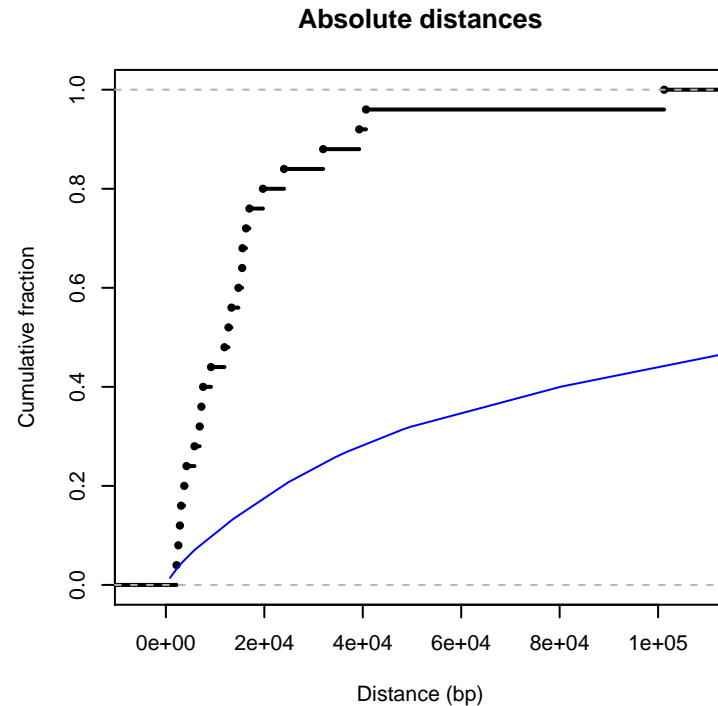
pcontig_016

Query population : 17
Reference population : 22
Relative Ks p-value : 0.500953
Relative ecdf deviation area : 0.0395925
Relative ecdf area correlation : 0.0560674
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 : 0.32
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.146895
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



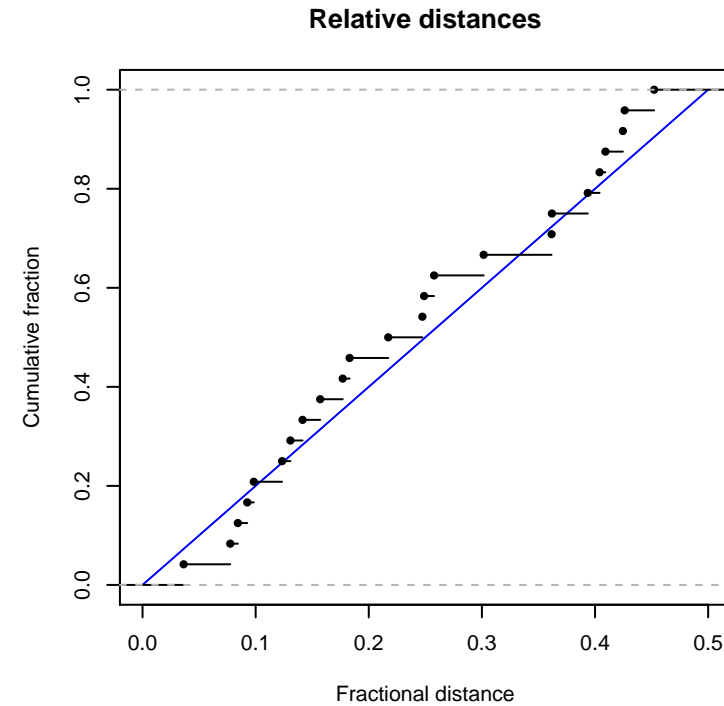
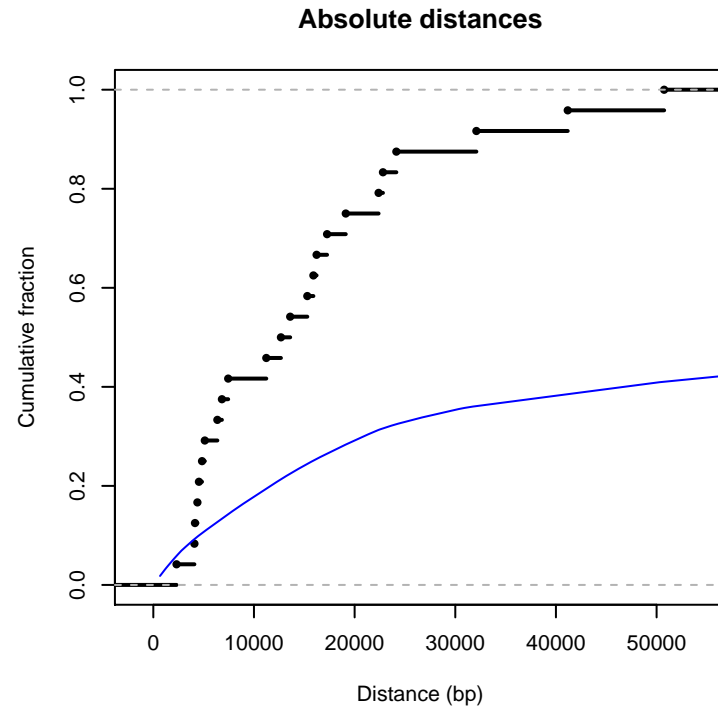
pcontig_017

Query population : 25
Reference population : 25
Relative Ks p-value : 0.0397444
Relative ecdf deviation area : 0.0542694
Relative ecdf area correlation : 0.216587
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 : 0.47
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.169523
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_018

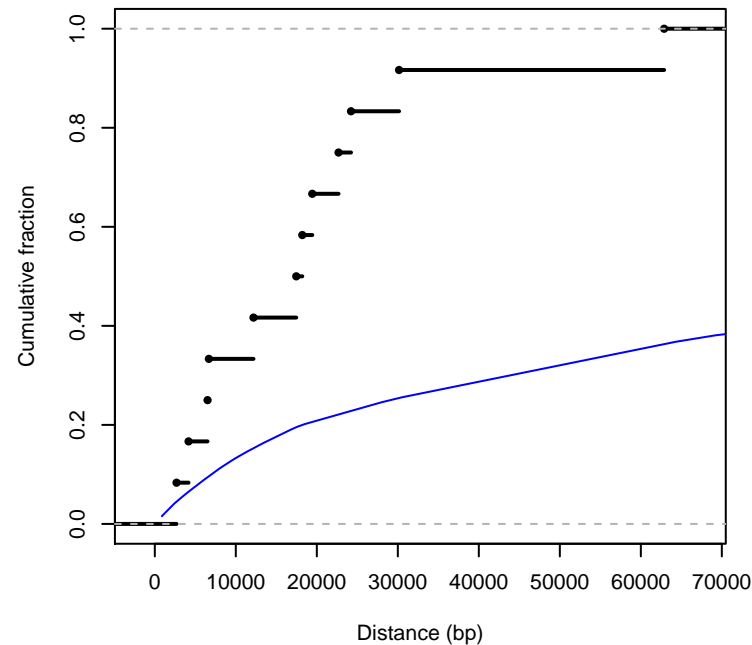
Query population : 24
Reference population : 41
Relative Ks p-value : 0.882882
Relative ecdf deviation area : 0.0222441
Relative ecdf area correlation : 0.0319909
Relative ecdf deviation area p-value : 0.83
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.42
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.26259
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



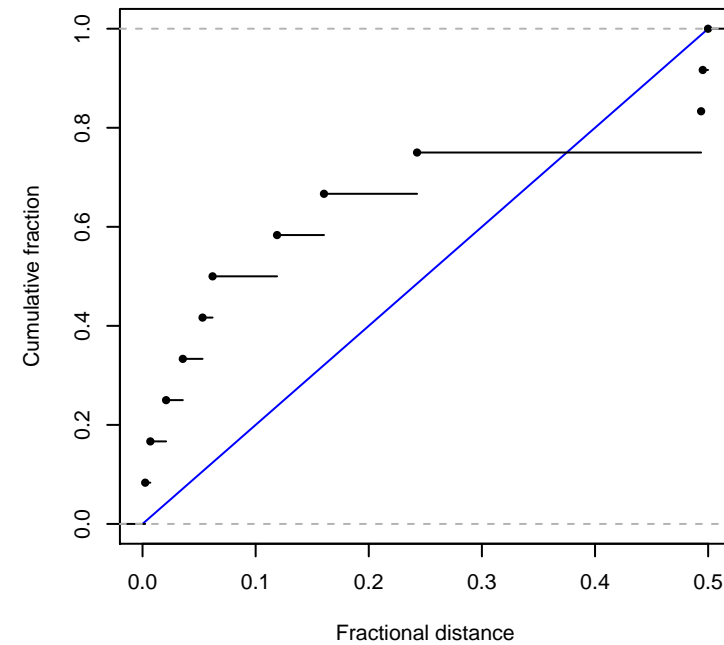
pcontig_019

Query population : 12
Reference population : 27
Relative Ks p-value : 0.0492769
Relative ecdf deviation area : 0.0969016
Relative ecdf area correlation : 0.26947
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 : 0.35
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.103684
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

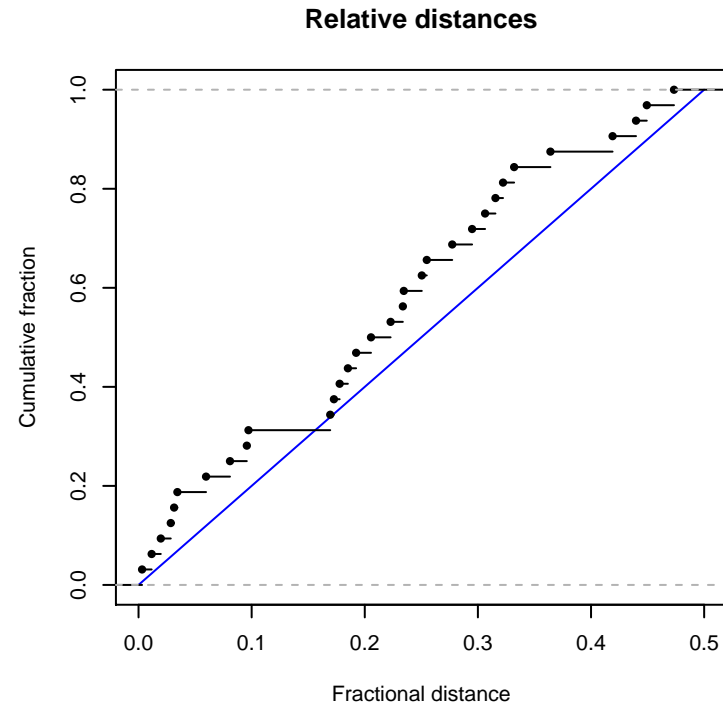
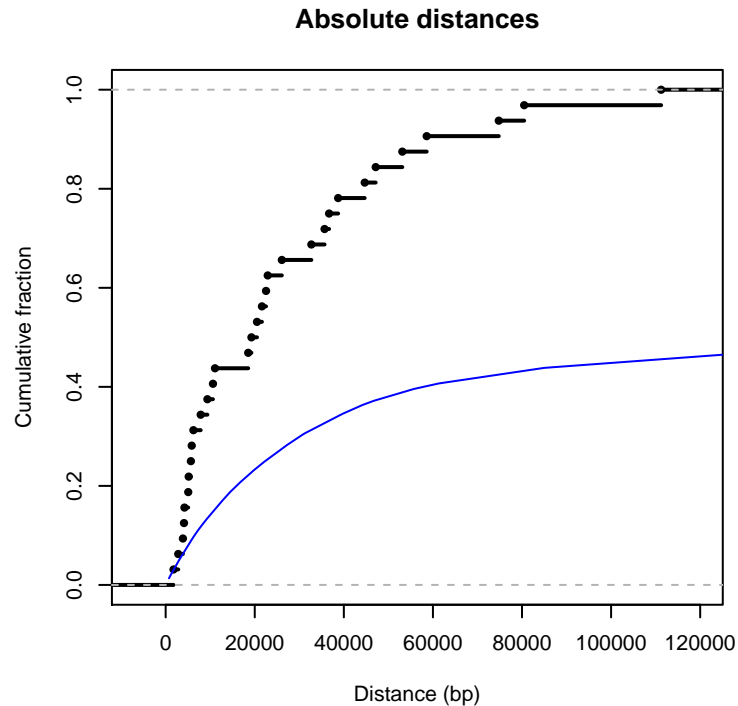


Relative distances



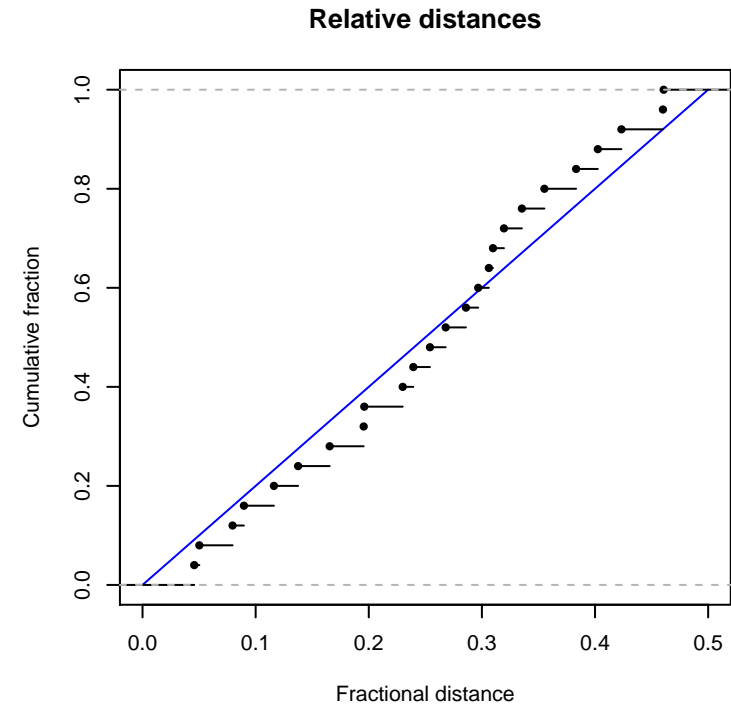
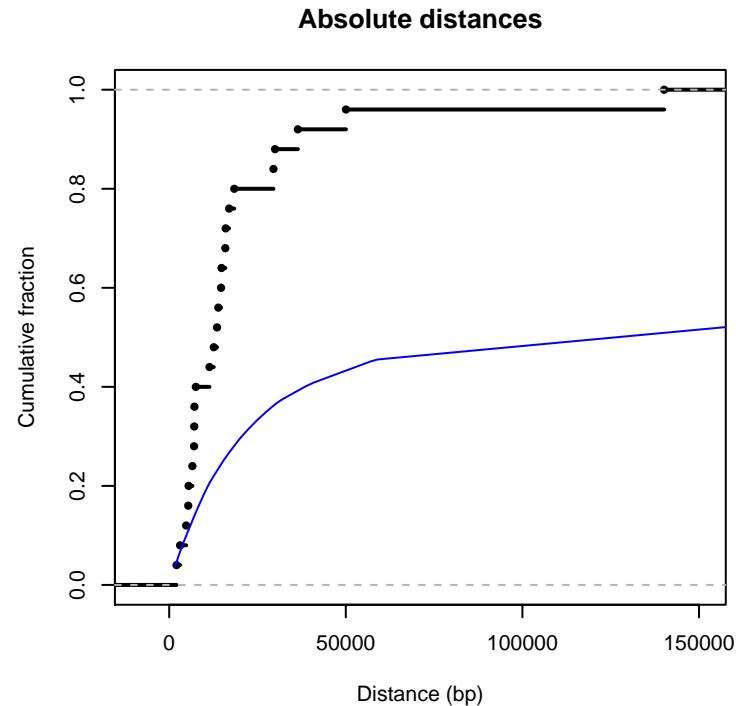
pcontig_020

Query population : 32
Reference population : 27
Relative Ks p-value : 0.224093
Relative ecdf deviation area : 0.0392128
Relative ecdf area correlation : 0.155607
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 : 0.4
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.312944
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



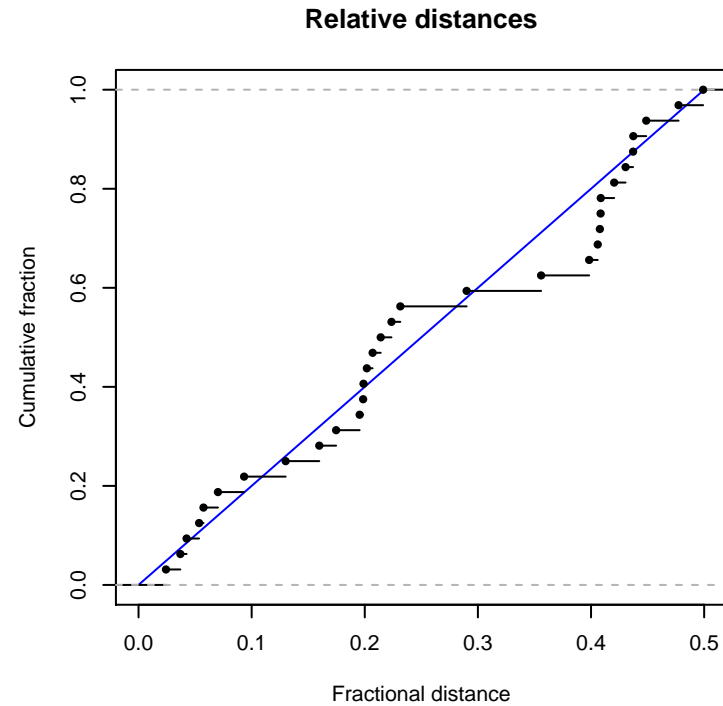
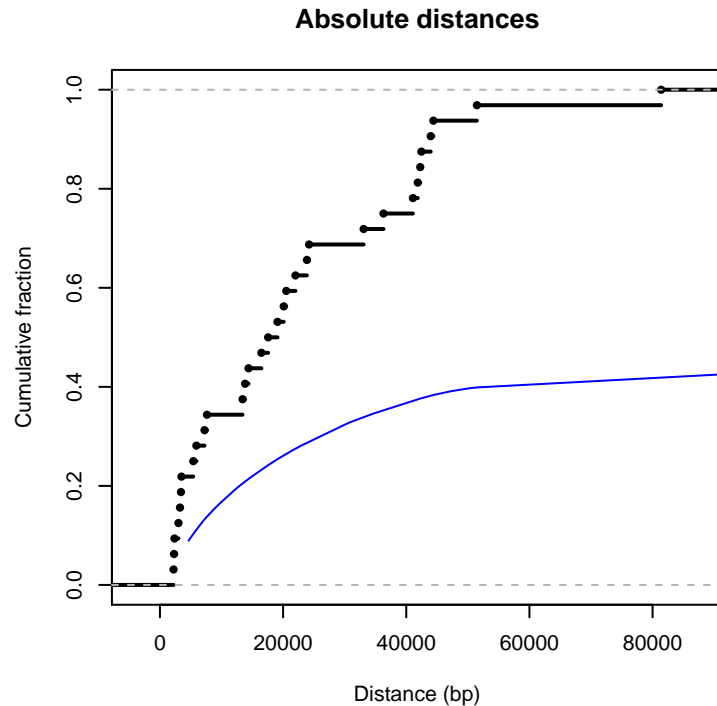
pcontig_021

Query population : 25
Reference population : 34
Relative Ks p-value : 0.884665
Relative ecdf deviation area : 0.026899
Relative ecdf area correlation : -0.0249159
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 : 0.43
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.241093
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



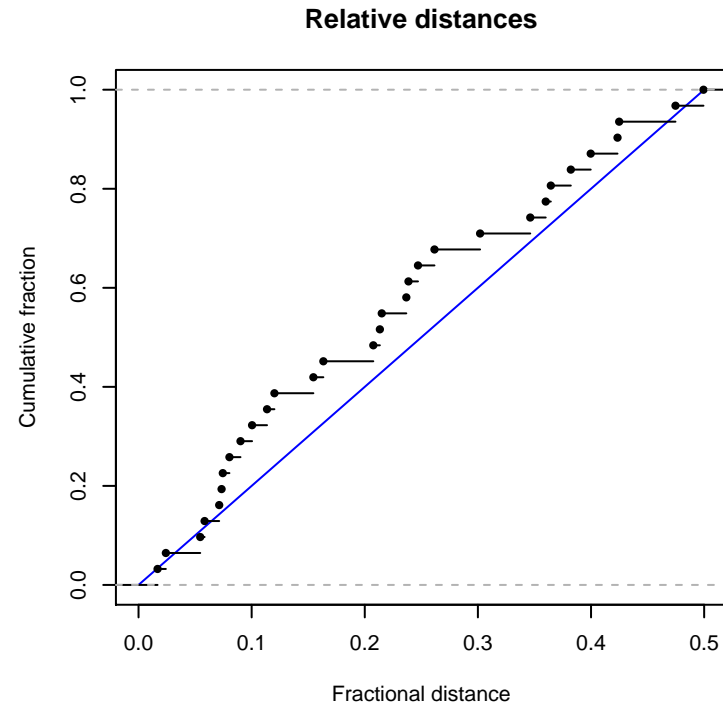
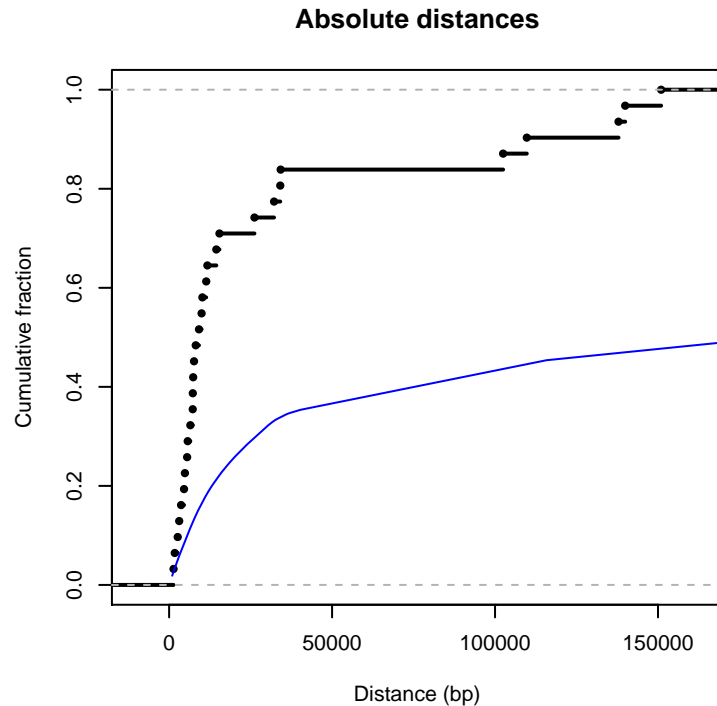
pcontig_022

Query population : 32
Reference population : 29
Relative Ks p-value : 0.269725
Relative ecdf deviation area : 0.0227319
Relative ecdf area correlation : -0.0424424
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 : 0.24
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.498531
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0



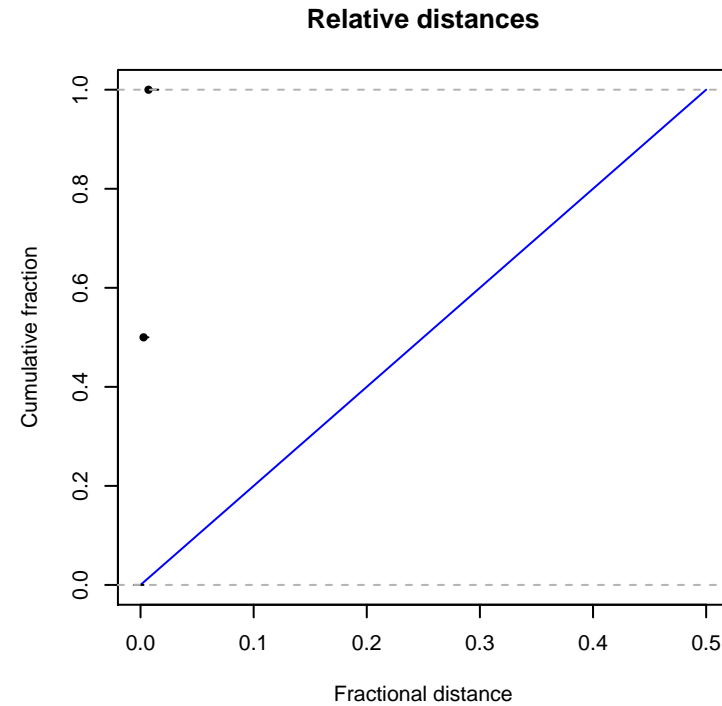
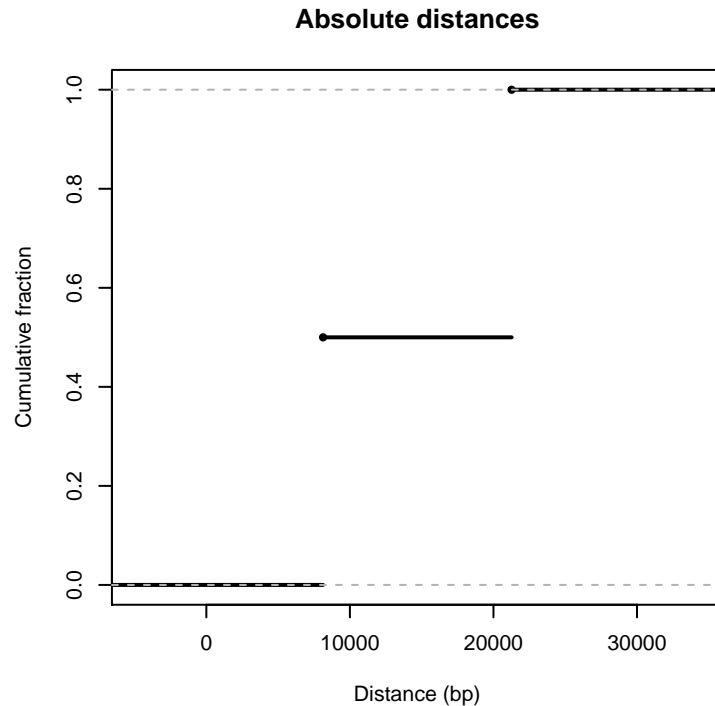
pcontig_023

Query population : 31
Reference population : 30
Relative Ks p-value : 0.410977
Relative ecdf deviation area : 0.0331155
Relative ecdf area correlation : 0.123549
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 : 0.38
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.291659
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



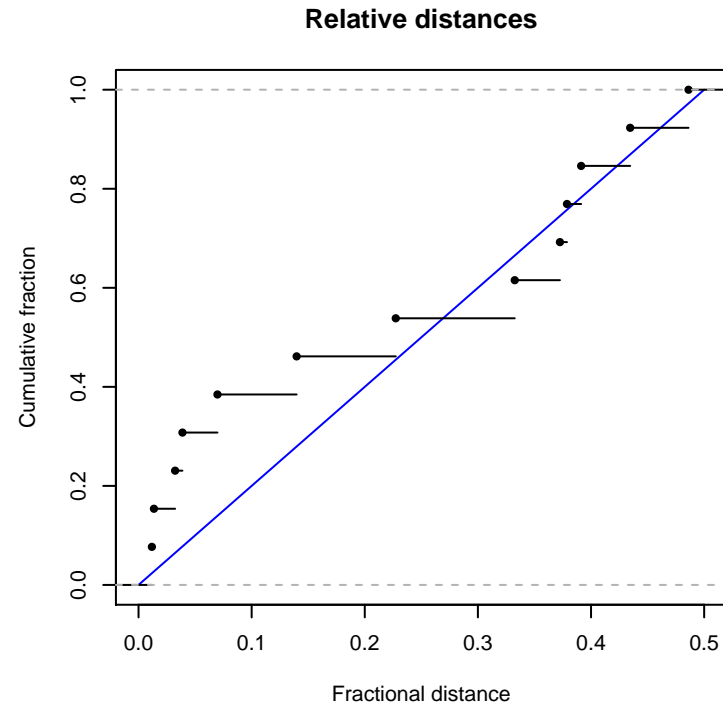
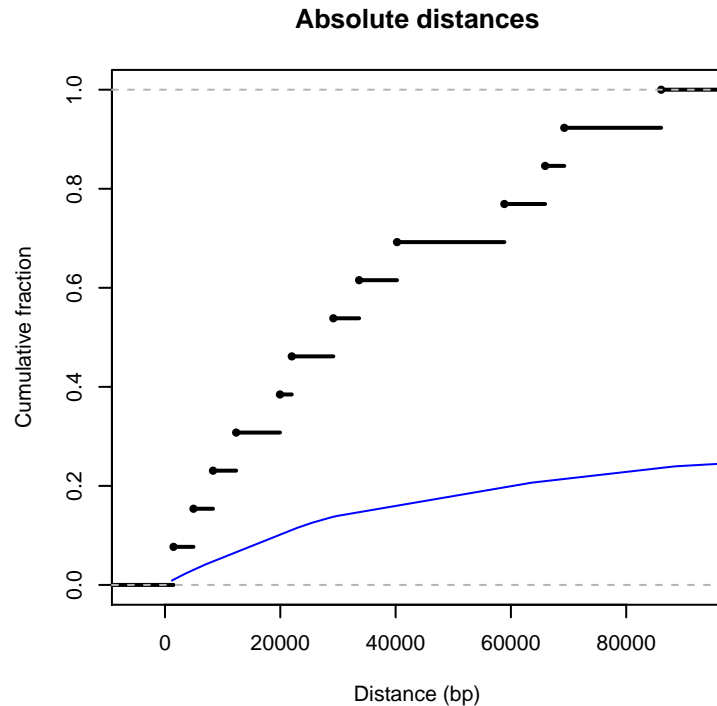
pcontig_024

Query population : 2
Reference population : 1
Relative Ks p-value : 0.000397862
Relative ecdf deviation area : 0.244297
Relative ecdf area correlation : 0.980503
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 : 0.000866697
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



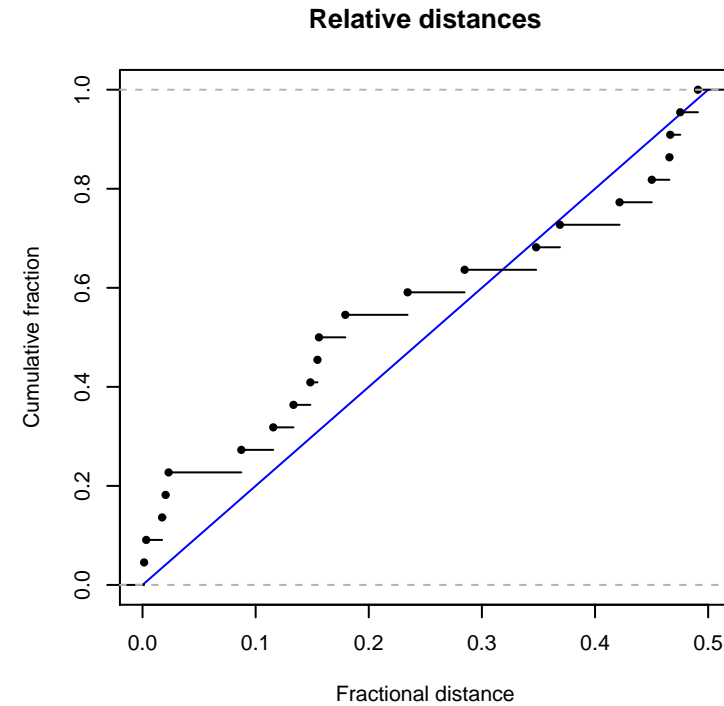
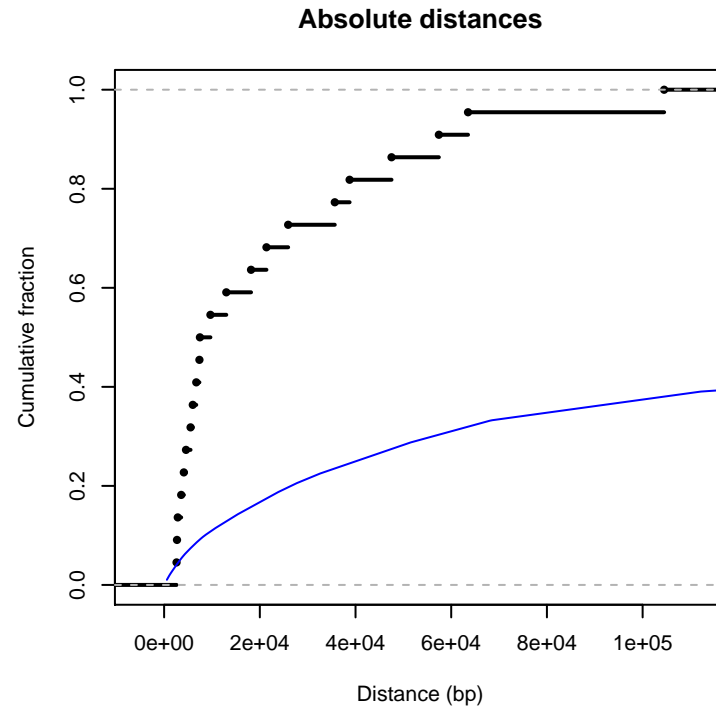
pcontig_025

Query population : 13
Reference population : 11
Relative Ks p-value : 0.356438
Relative ecdf deviation area : 0.0422276
Relative ecdf area correlation : 0.0986383
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 : 0.12
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0356442
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



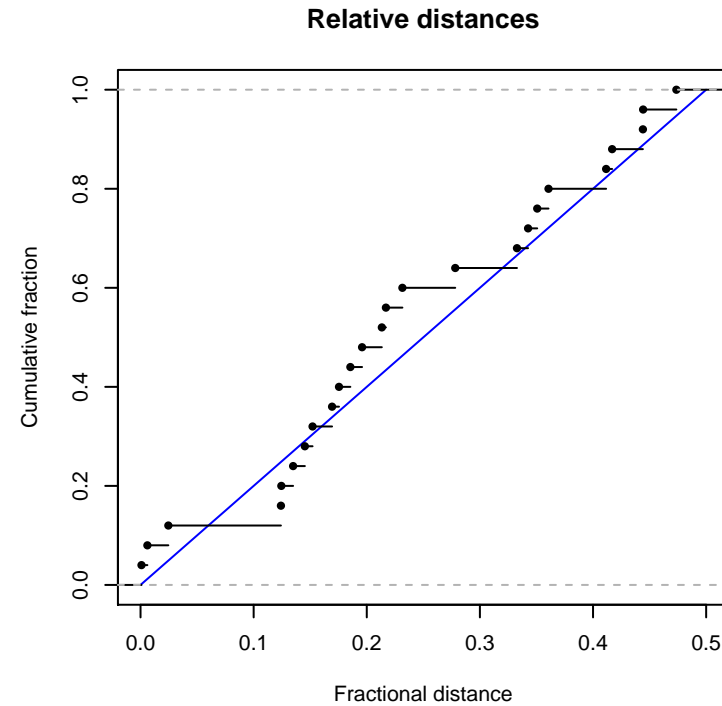
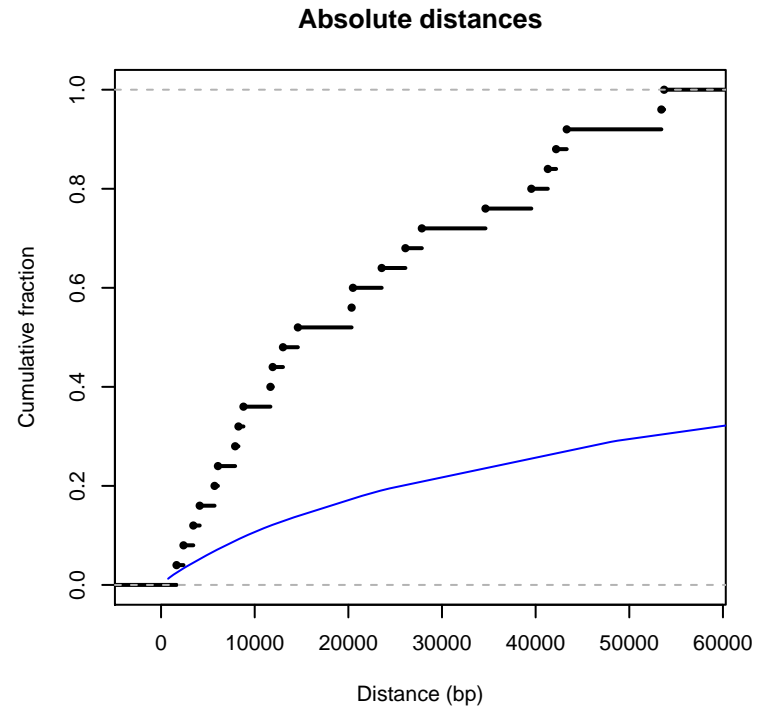
pcontig_026

Query population : 22
Reference population : 27
Relative Ks p-value : 0.370901
Relative ecdf deviation area : 0.0405932
Relative ecdf area correlation : 0.0824884
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 : 0.44
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.194557
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



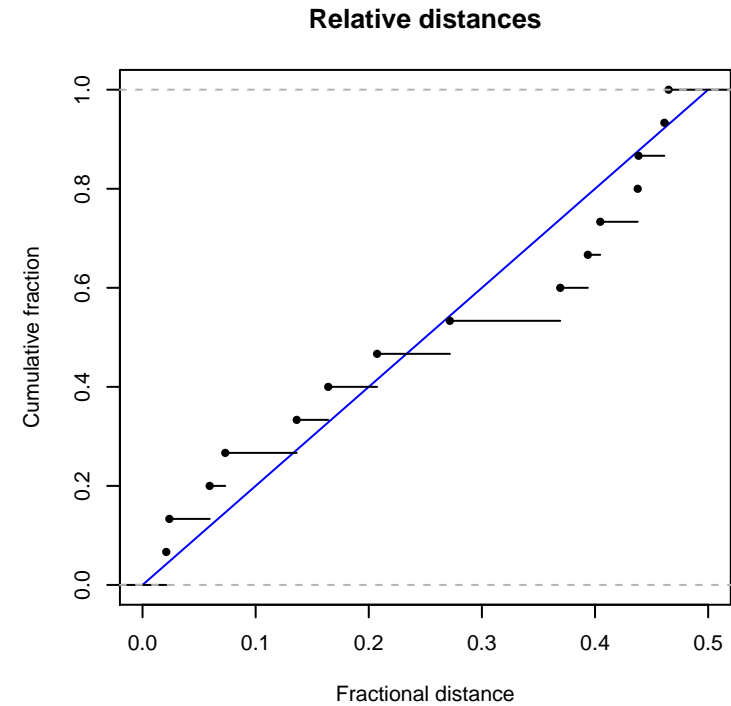
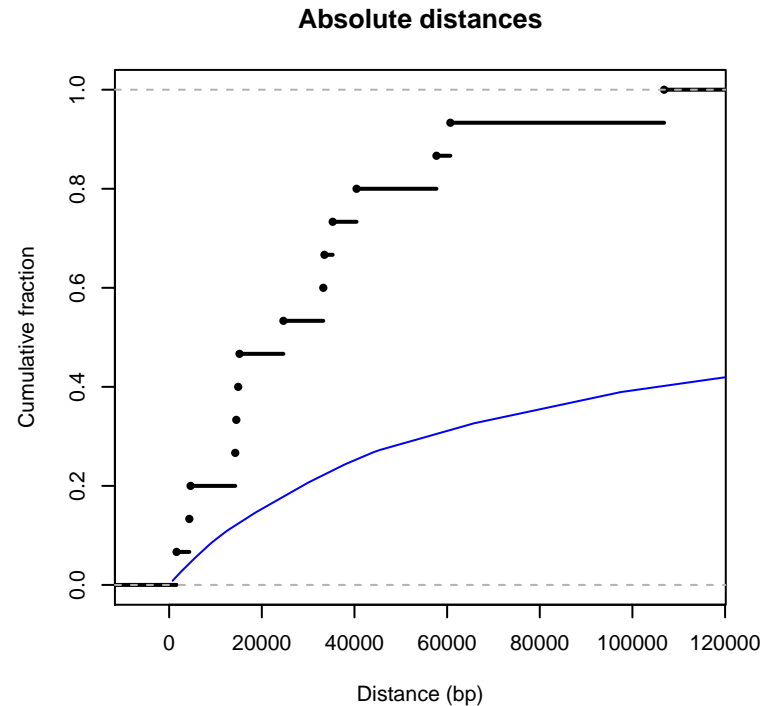
pcontig_027

Query population : 25
Reference population : 25
Relative Ks p-value : 0.685763
Relative ecdf deviation area : 0.0234159
Relative ecdf area correlation : 0.0471043
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 : 0.44
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.167579
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



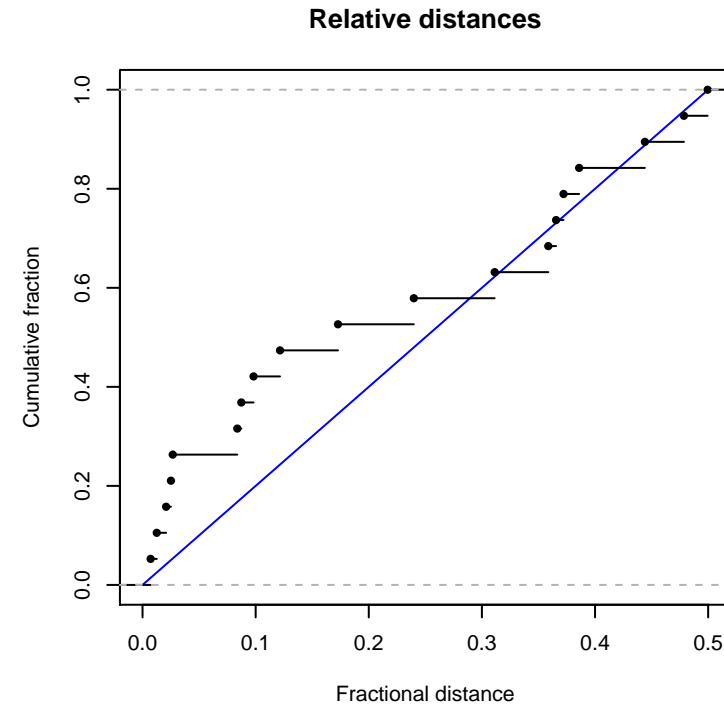
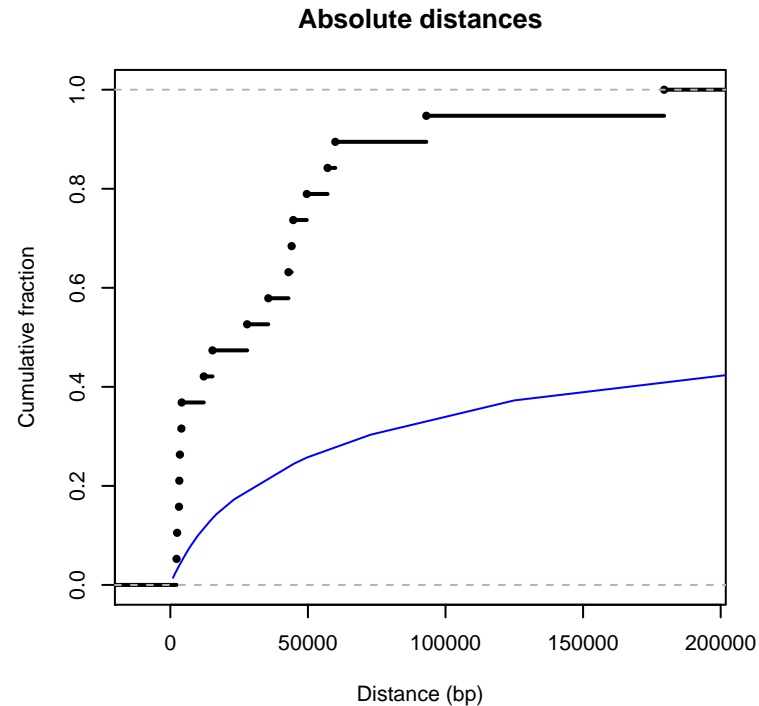
pcontig_028

Query population : 15
Reference population : 17
Relative Ks p-value : 0.489698
Relative ecdf deviation area : 0.0324865
Relative ecdf area correlation : -0.0471326
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 : 0.24
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.109948
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



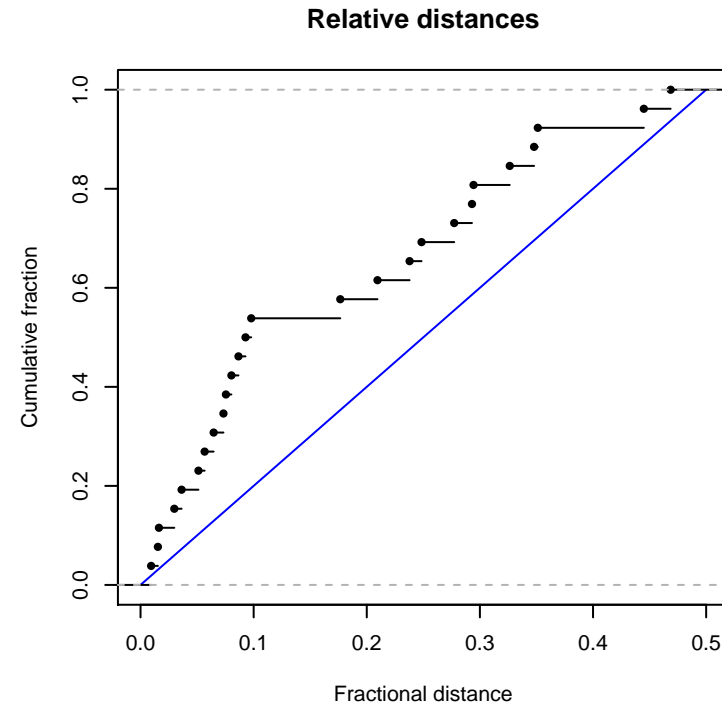
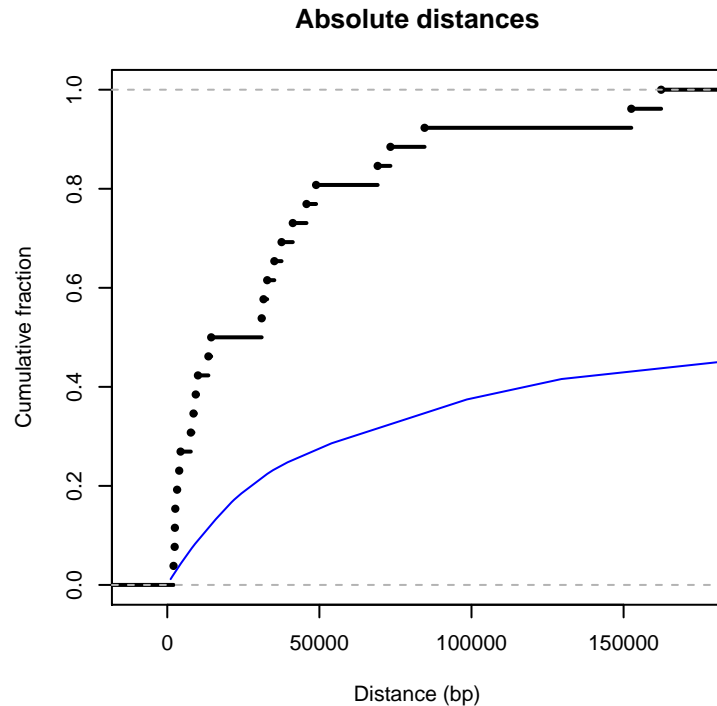
pcontig_029

Query population : 19
Reference population : 22
Relative Ks p-value : 0.226707
Relative ecdf deviation area : 0.0431691
Relative ecdf area correlation : 0.134365
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 : 0.33
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.129189
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_030

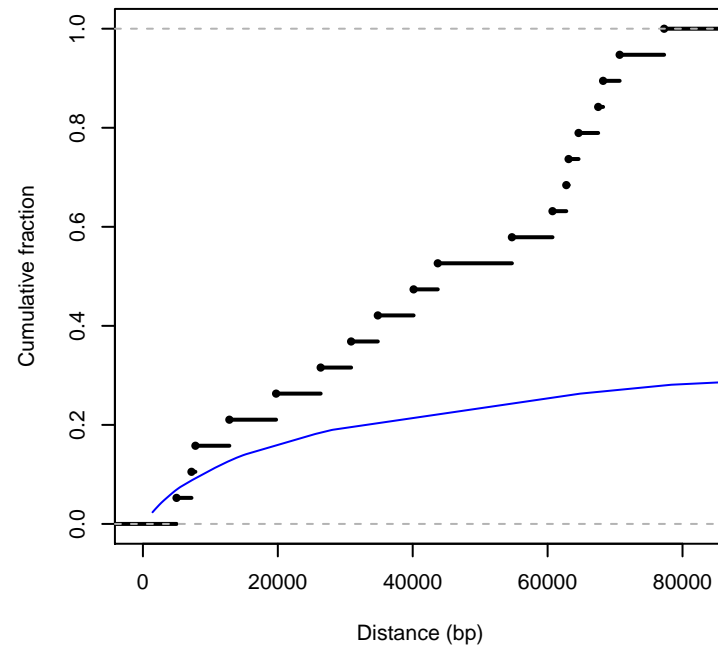
Query population : 26
Reference population : 16
Relative Ks p-value : 0.00313237
Relative ecdf deviation area : 0.0787404
Relative ecdf area correlation : 0.313542
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.36
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.102773
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



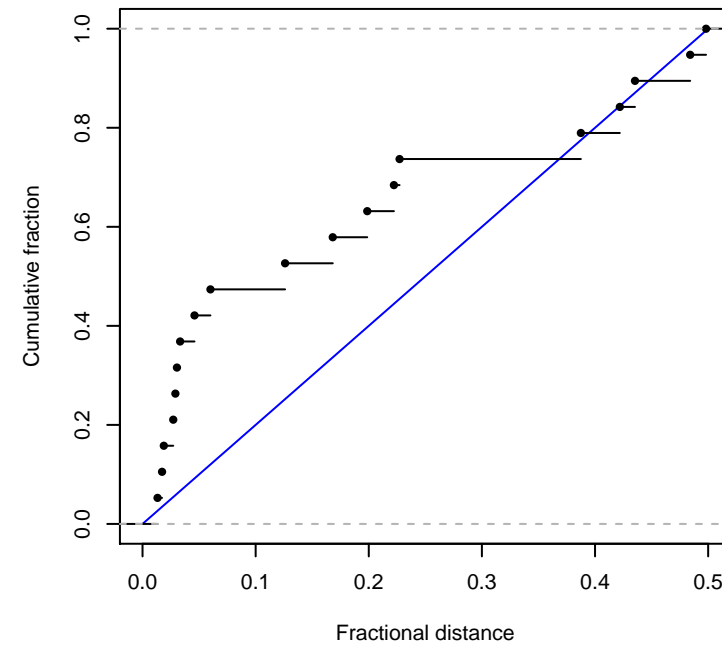
pcontig_031

Query population : 19
Reference population : 25
Relative Ks p-value : 0.0124801
Relative ecdf deviation area : 0.0756422
Relative ecdf area correlation : 0.274857
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 : 0.46
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.126455
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

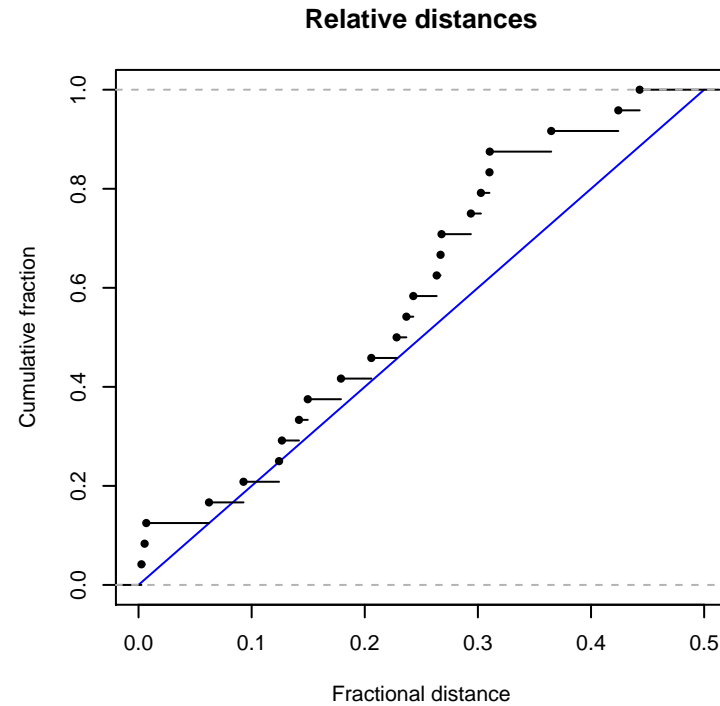
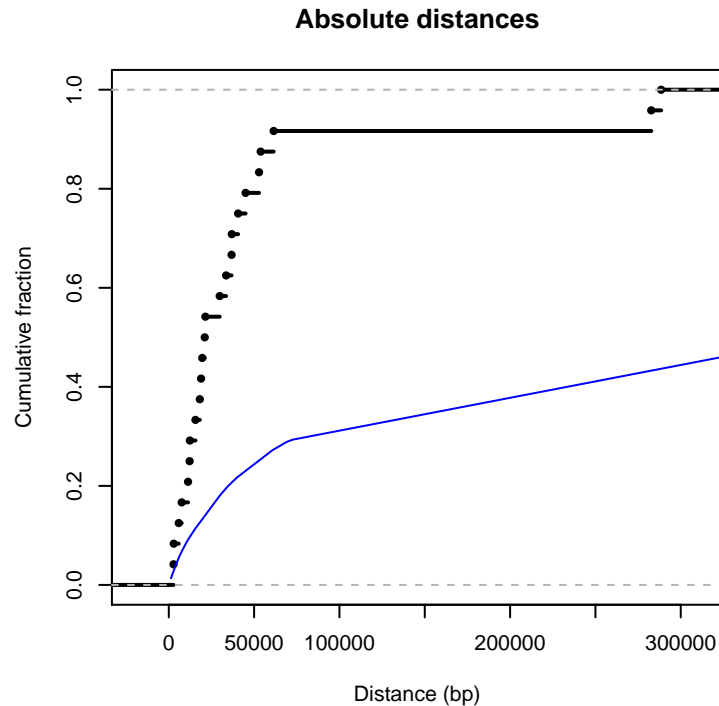


Relative distances



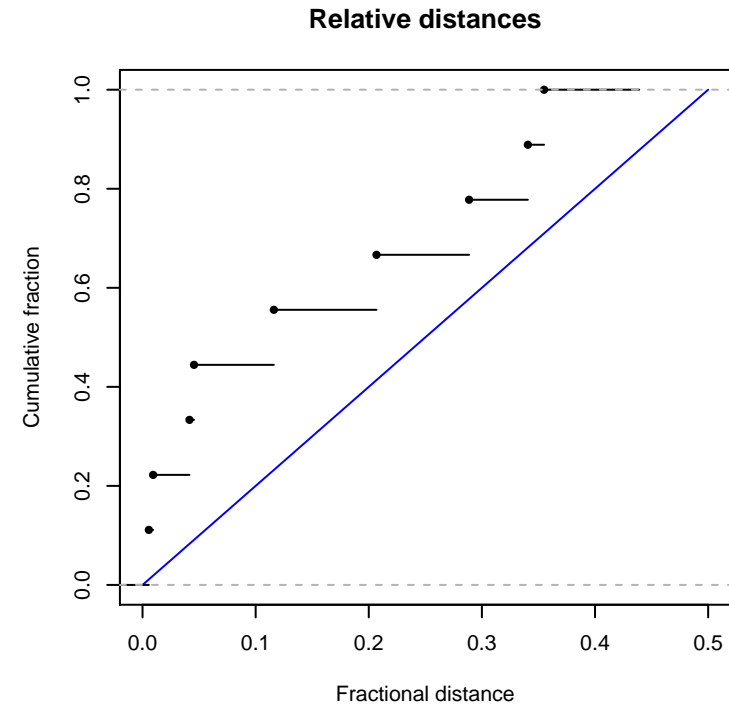
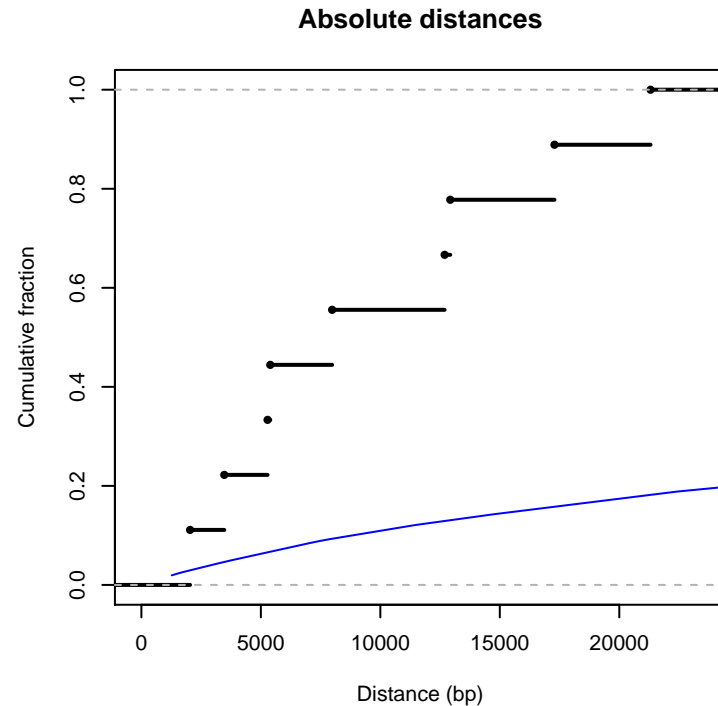
pcontig_033

Query population : 24
Reference population : 16
Relative Ks p-value : 0.0748212
Relative ecdf deviation area : 0.0403635
Relative ecdf area correlation : 0.157937
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 : 0.26
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.105068
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



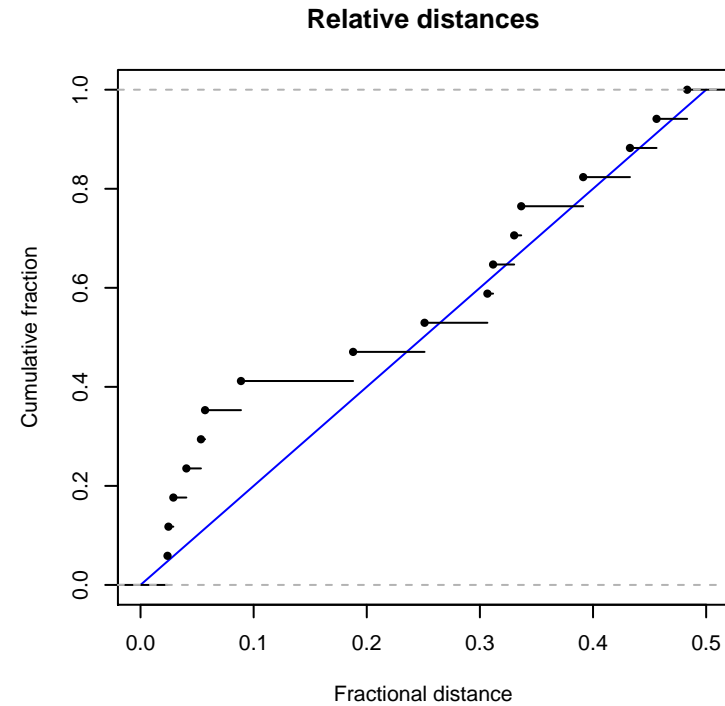
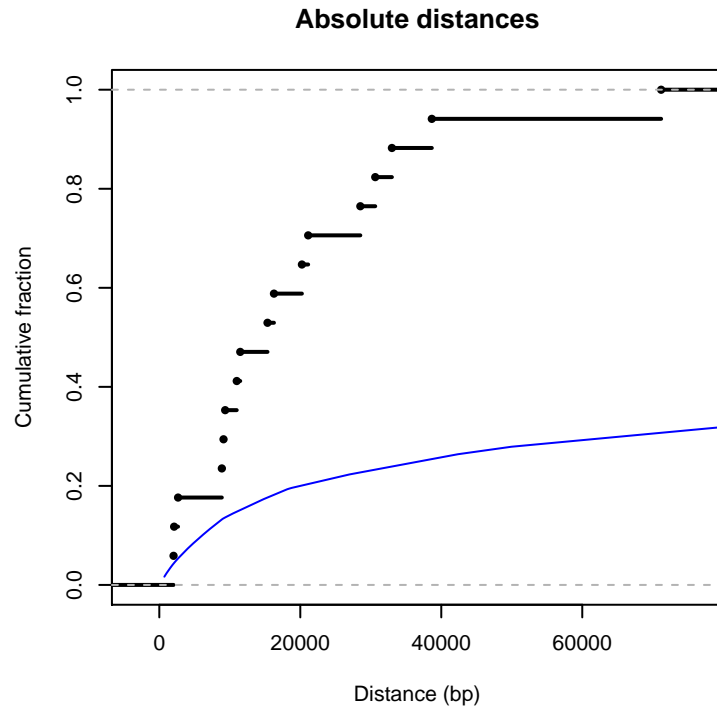
pcontig_034

Query population : 9
Reference population : 23
Relative Ks p-value : 0.164677
Relative ecdf deviation area : 0.0931407
Relative ecdf area correlation : 0.373713
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 : 0.31
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0568118
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



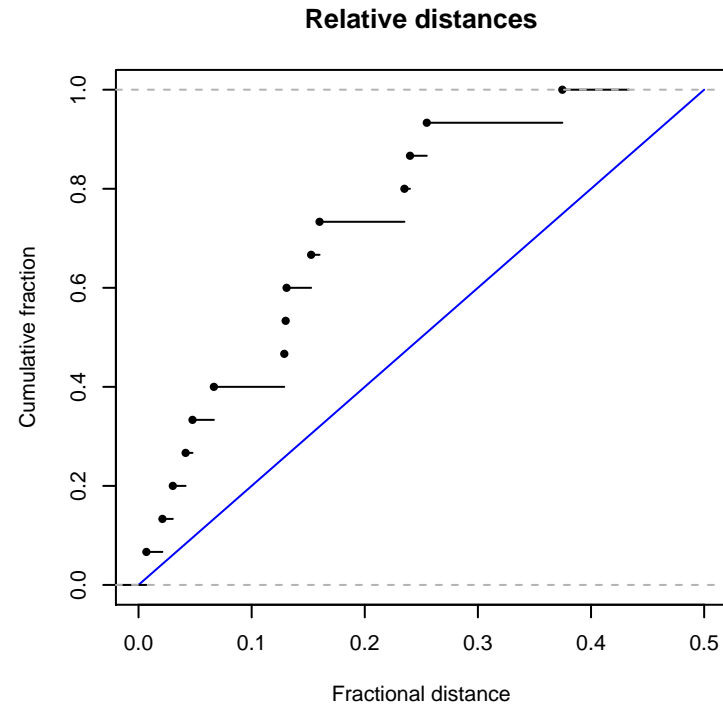
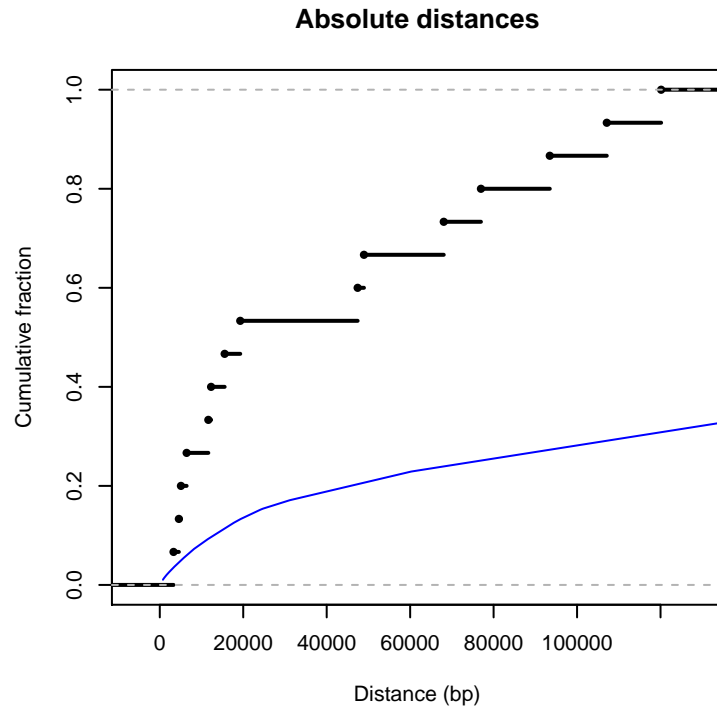
pcontig_035

Query population : 17
Reference population : 35
Relative Ks p-value : 0.244695
Relative ecdf deviation area : 0.0337827
Relative ecdf area correlation : 0.104749
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 : 0.39
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.187568
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



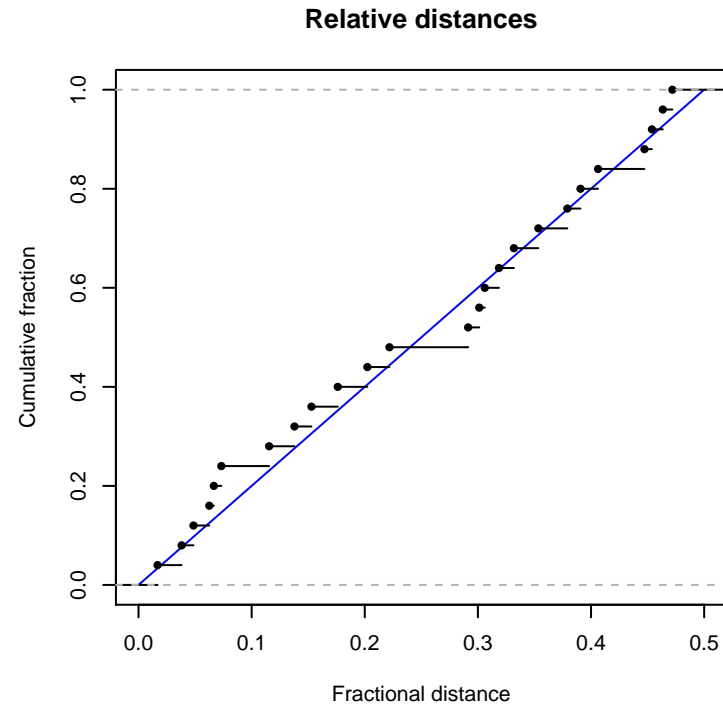
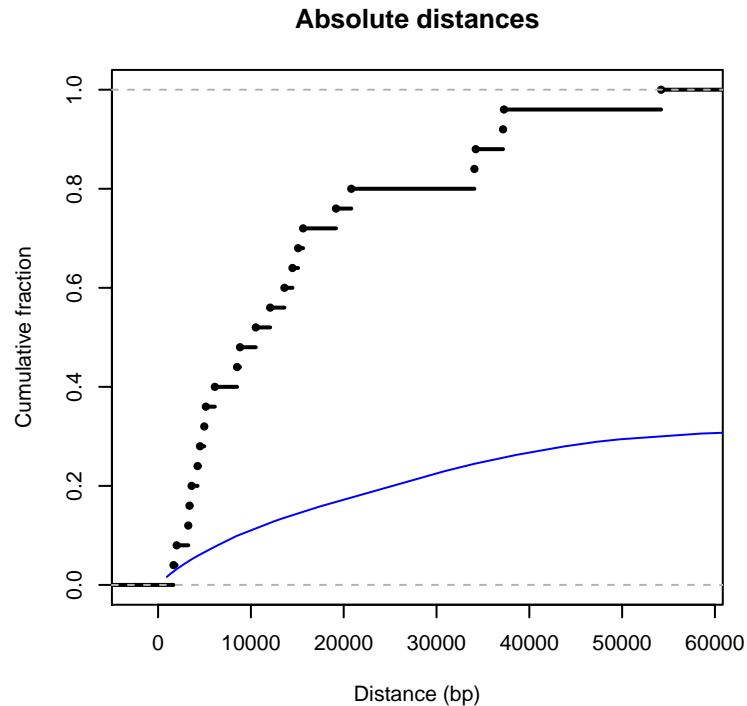
pcontig_036

Query population : 15
Reference population : 21
Relative Ks p-value : 0.00586446
Relative ecdf deviation area : 0.115173
Relative ecdf area correlation : 0.461018
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.25
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0888265
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



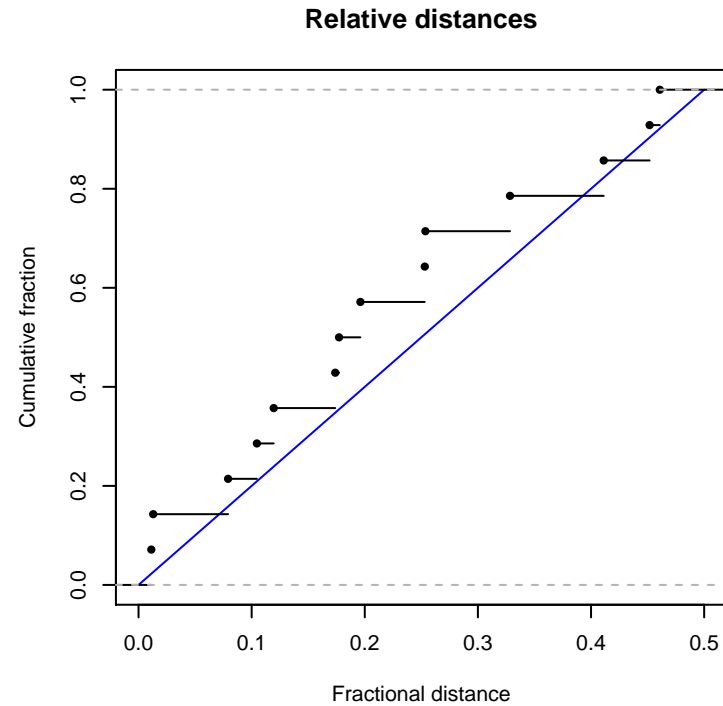
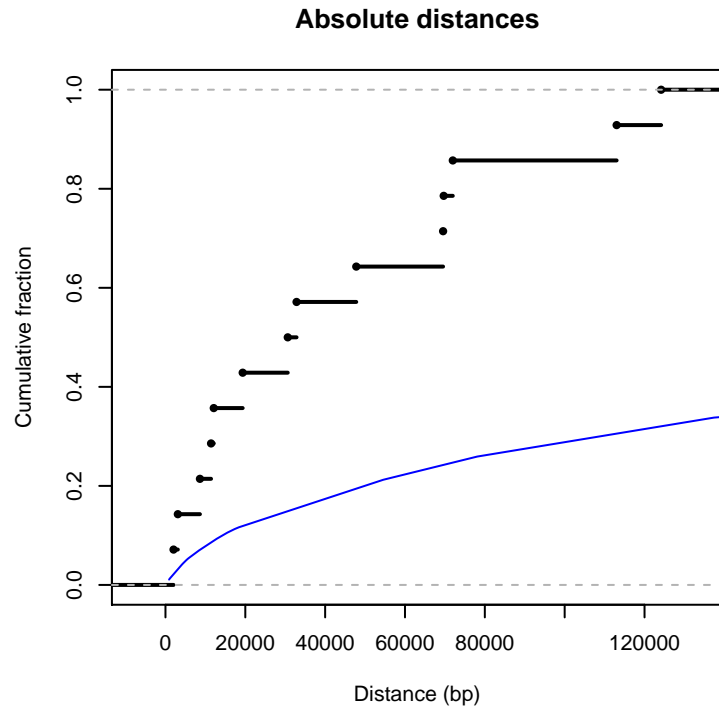
pcontig_037

Query population : 25
Reference population : 26
Relative Ks p-value : 0.929958
Relative ecdf deviation area : 0.014146
Relative ecdf area correlation : 0.00365742
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 : 0.49
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.213482
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



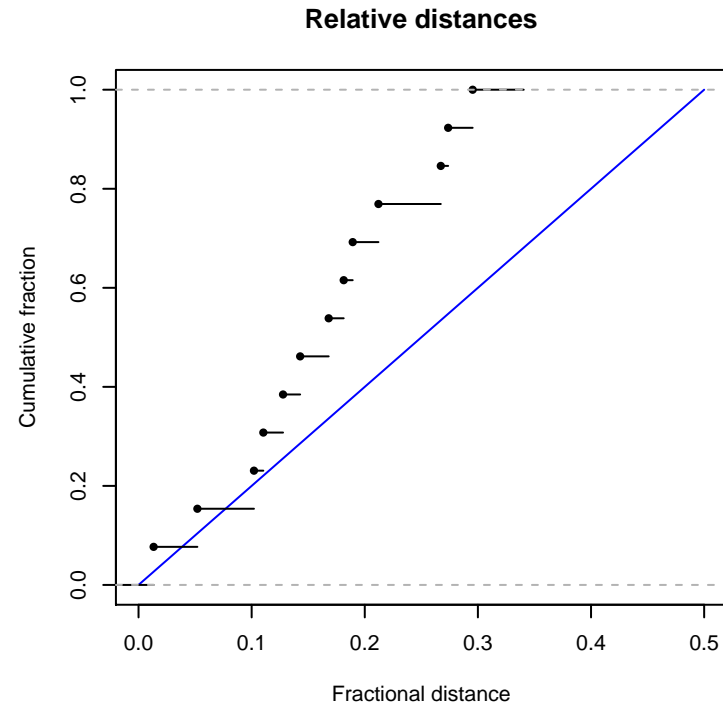
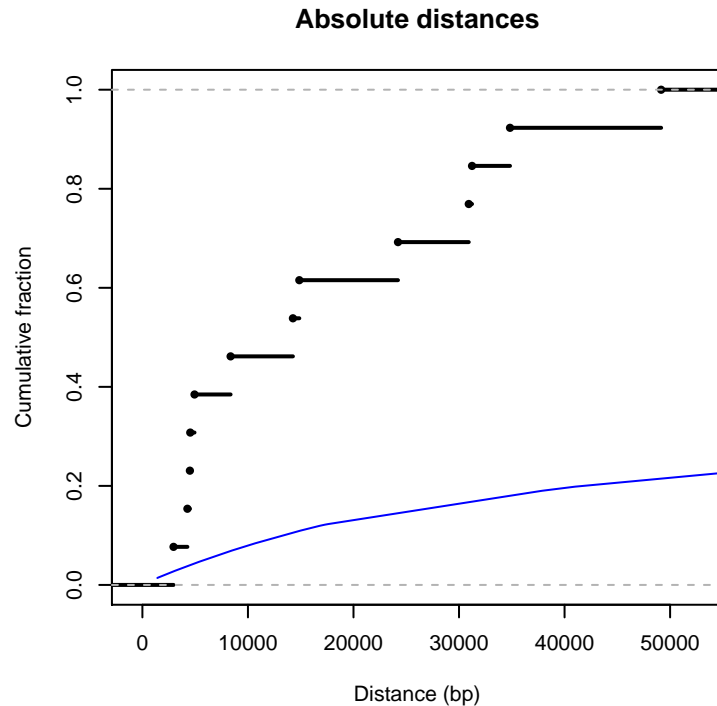
pcontig_039

Query population : 14
Reference population : 18
Relative Ks p-value : 0.519581
Relative ecdf deviation area : 0.0355435
Relative ecdf area correlation : 0.133255
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 : 0.33
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0708451
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



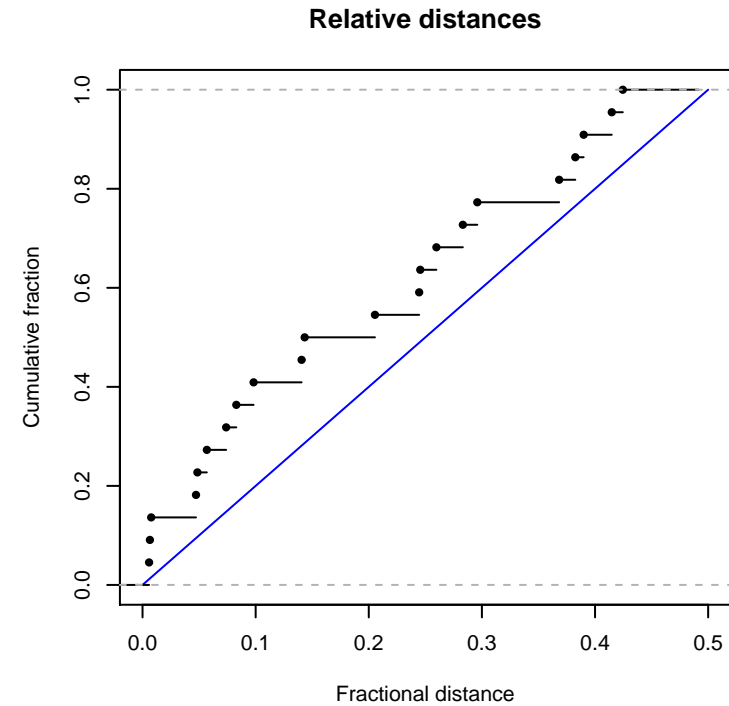
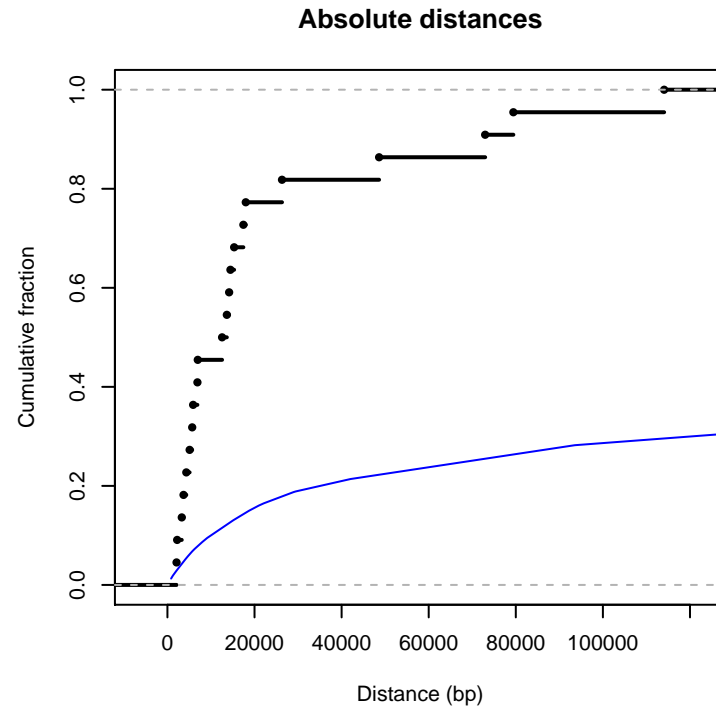
pcontig_040

Query population : 13
Reference population : 15
Relative Ks p-value : 0.0175505
Relative ecdf deviation area : 0.0878443
Relative ecdf area correlation : 0.342922
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 : 0.16
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0642296
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



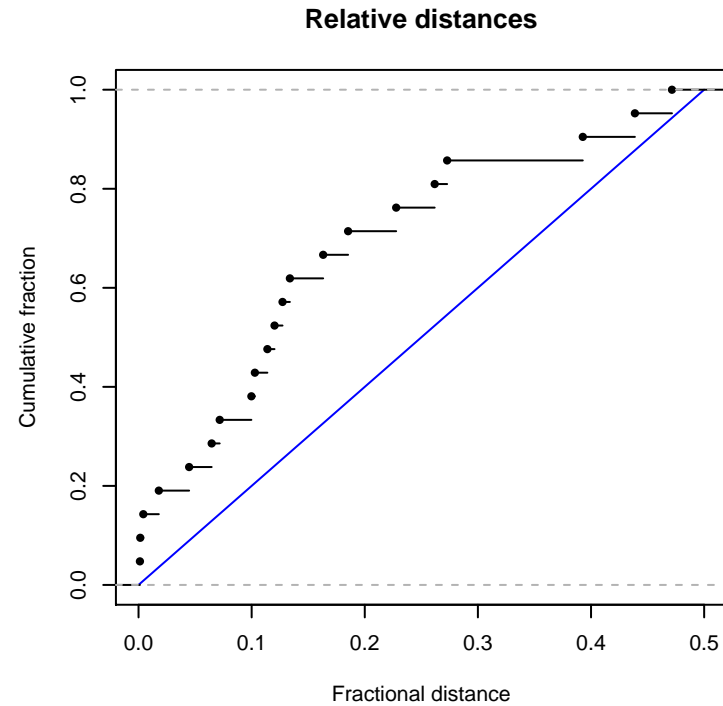
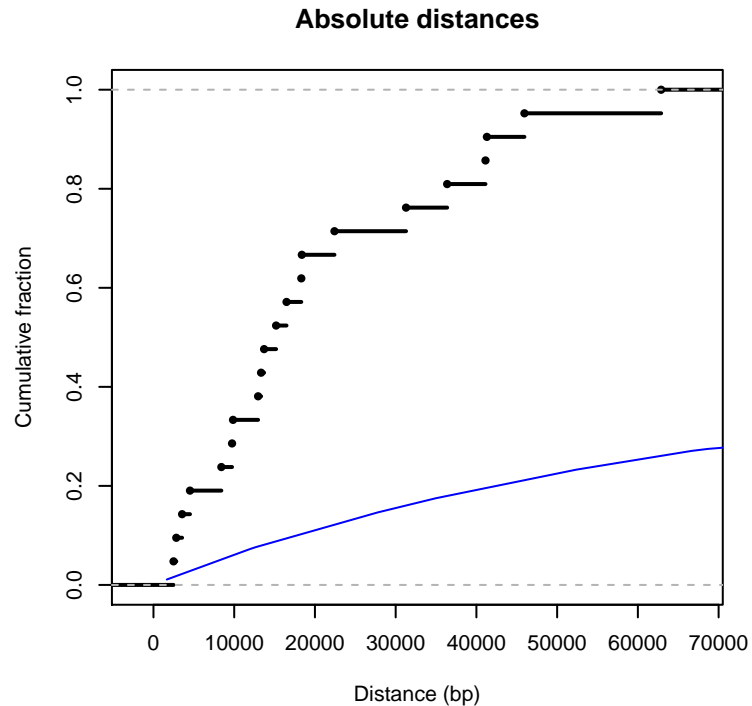
pcontig_041

Query population : 22
Reference population : 23
Relative Ks p-value : 0.233527
Relative ecdf deviation area : 0.0579706
Relative ecdf area correlation : 0.231619
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 : 0.34
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.134909
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



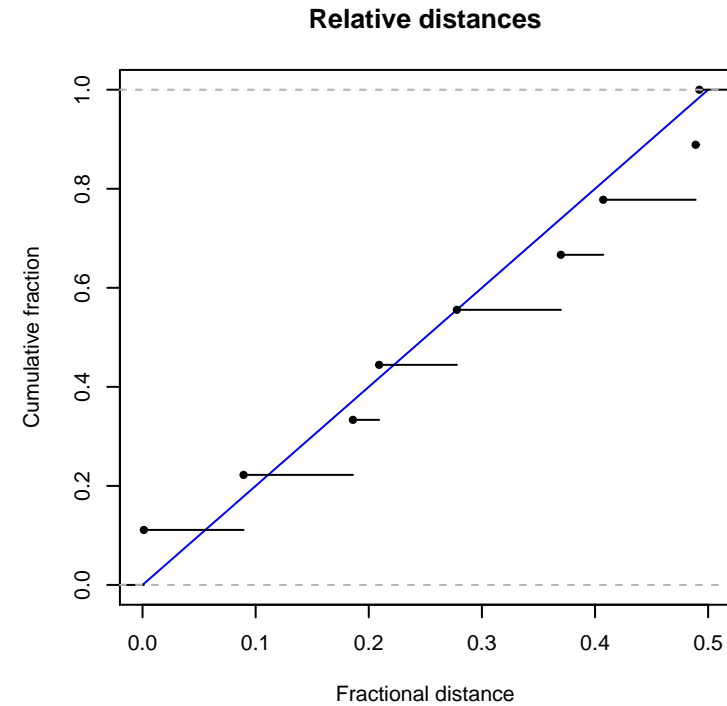
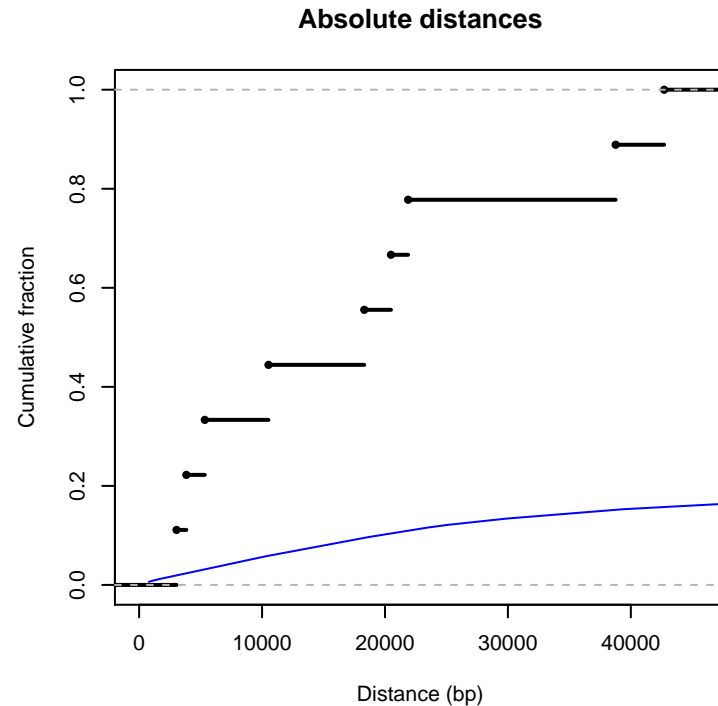
pcontig_042

Query population : 21
Reference population : 10
Relative Ks p-value : 0.00797933
Relative ecdf deviation area : 0.0921023
Relative ecdf area correlation : 0.368023
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 : 0.23
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.104908
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



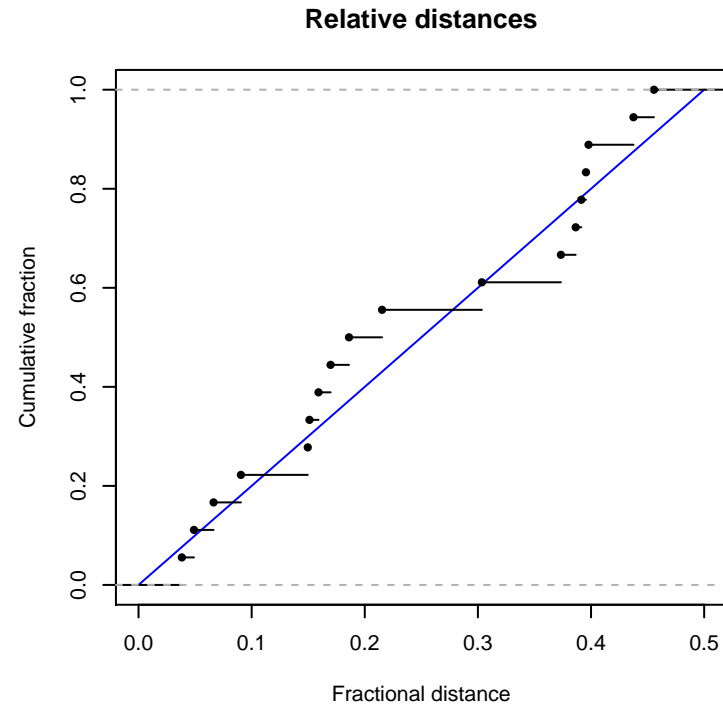
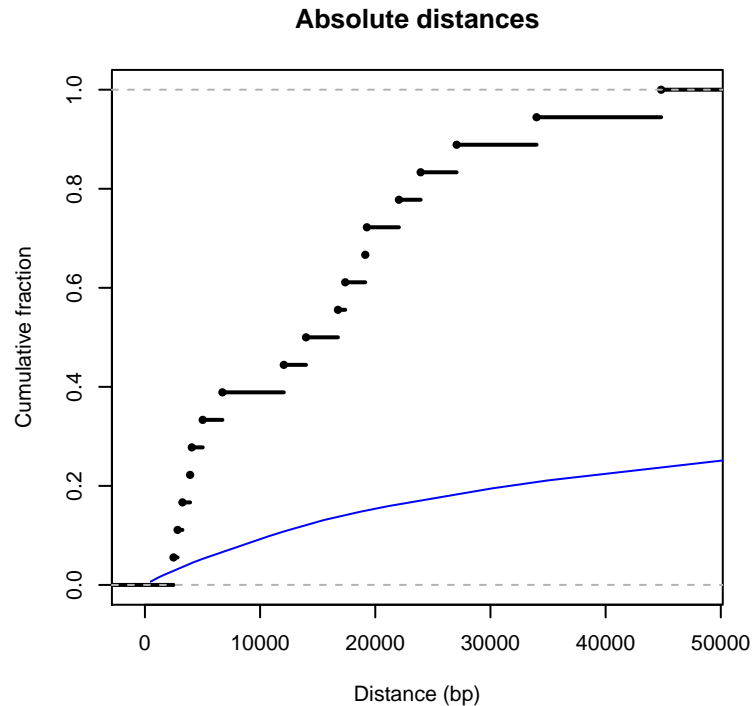
pcontig_043

Query population : 9
Reference population : 12
Relative Ks p-value : 0.797815
Relative ecdf deviation area : 0.0377154
Relative ecdf area correlation : -0.120752
Relative ecdf deviation area p-value : 0.69
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.028871
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



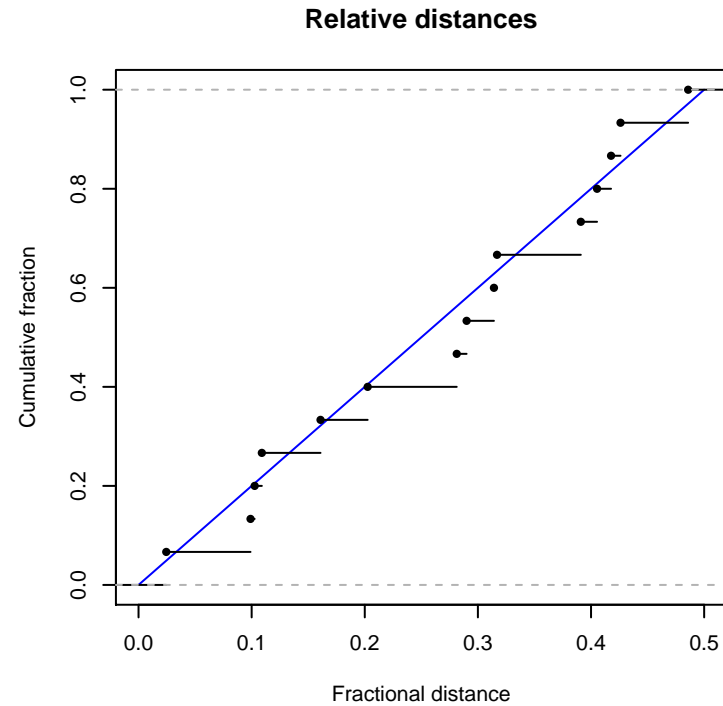
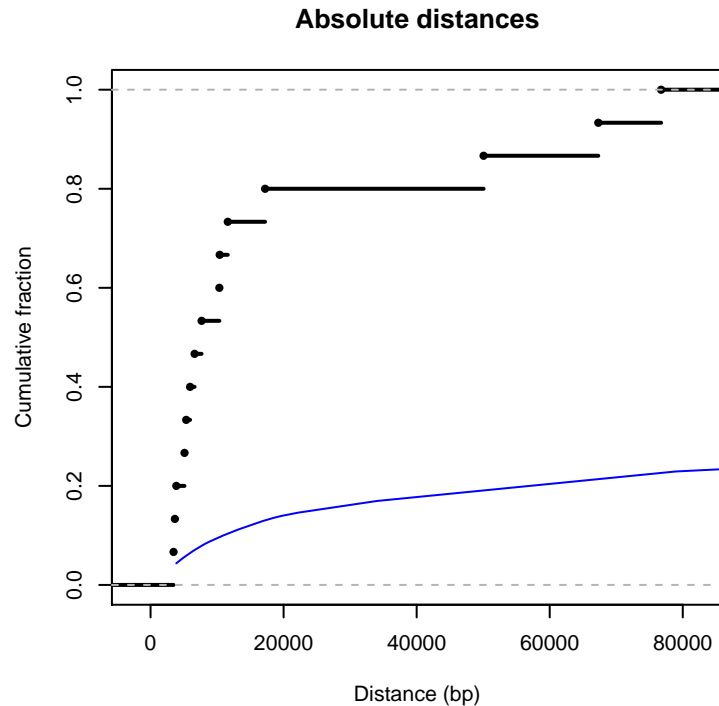
pcontig_044

Query population : 18
Reference population : 20
Relative Ks p-value : 0.852064
Relative ecdf deviation area : 0.0249198
Relative ecdf area correlation : 0.0186132
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 : 0.36
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0871136
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_045

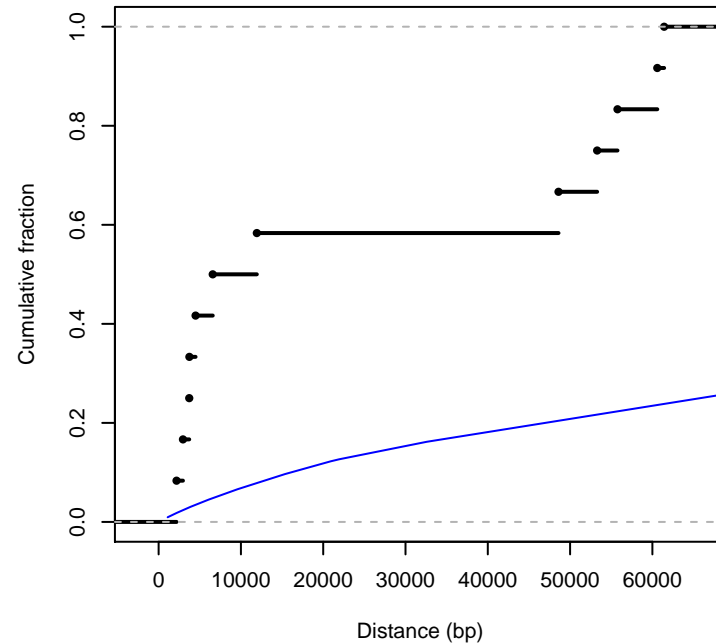
Query population : 15
Reference population : 17
Relative Ks p-value : 0.765486
Relative ecdf deviation area : 0.0244605
Relative ecdf area correlation : -0.0738714
Relative ecdf deviation area p-value : 0.86
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.24
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.113209
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



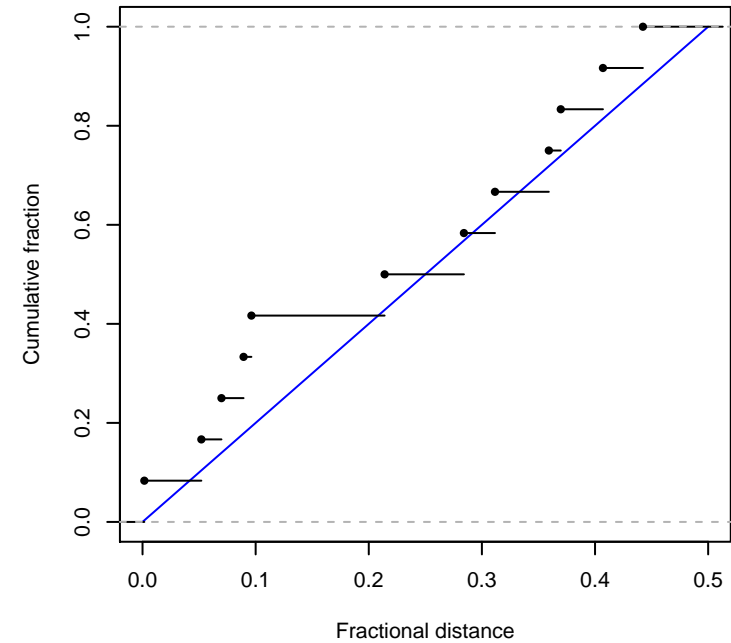
pcontig_046

Query population : 12
Reference population : 13
Relative Ks p-value : 0.511933
Relative ecdf deviation area : 0.0301477
Relative ecdf area correlation : 0.101051
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 : 0.11
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0431064
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

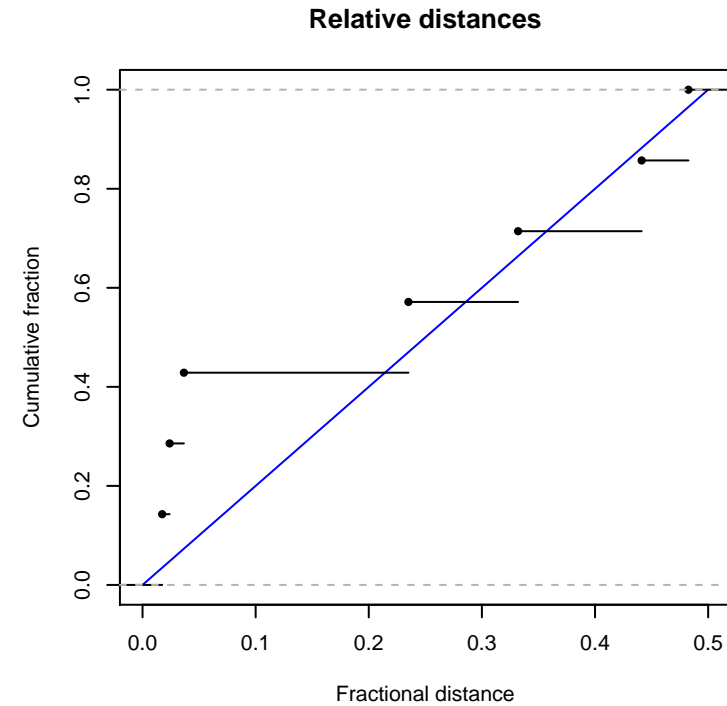
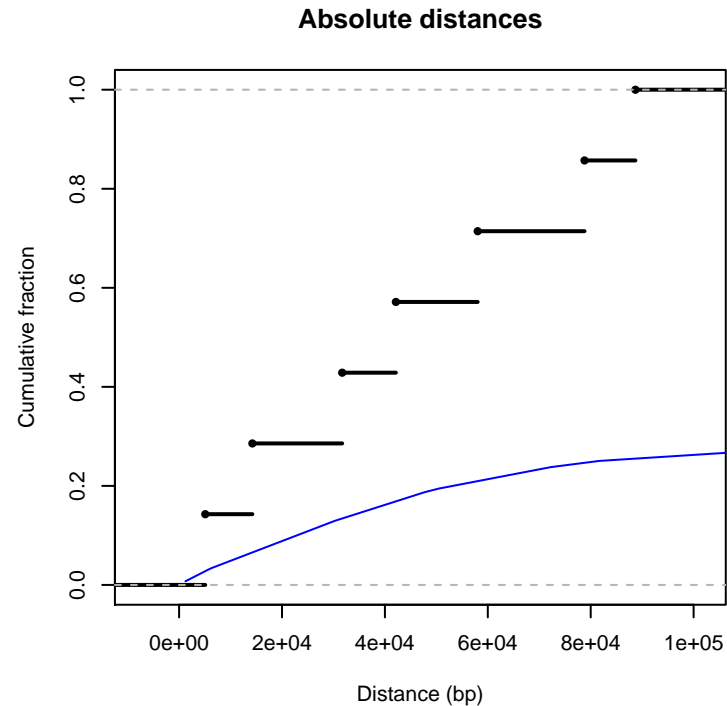


Relative distances



pcontig_047

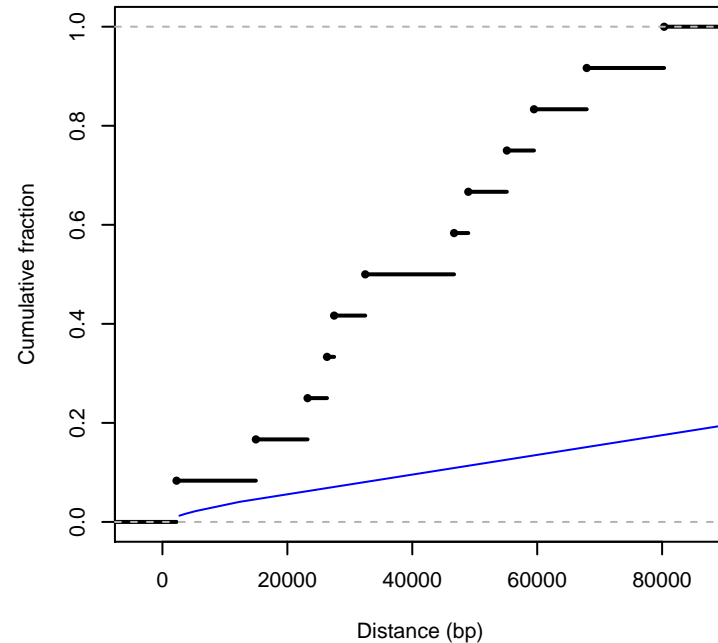
Query population : 7
Reference population : 9
Relative Ks p-value : 0.269659
Relative ecdf deviation area : 0.0515457
Relative ecdf area correlation : 0.103578
Relative ecdf deviation area p-value : 0.44
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0265879
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



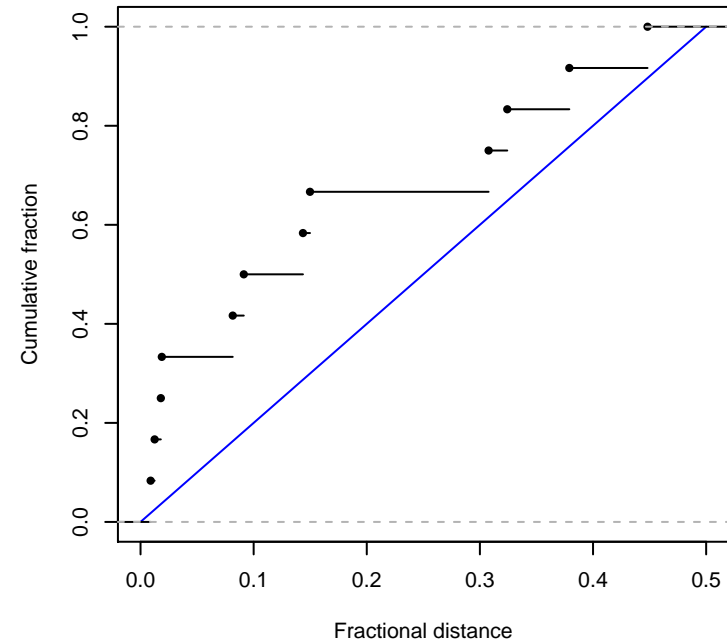
pcontig_048

Query population : 12
Reference population : 7
Relative Ks p-value : 0.0588494
Relative ecdf deviation area : 0.0848162
Relative ecdf area correlation : 0.338843
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 : 0.13
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.031121
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

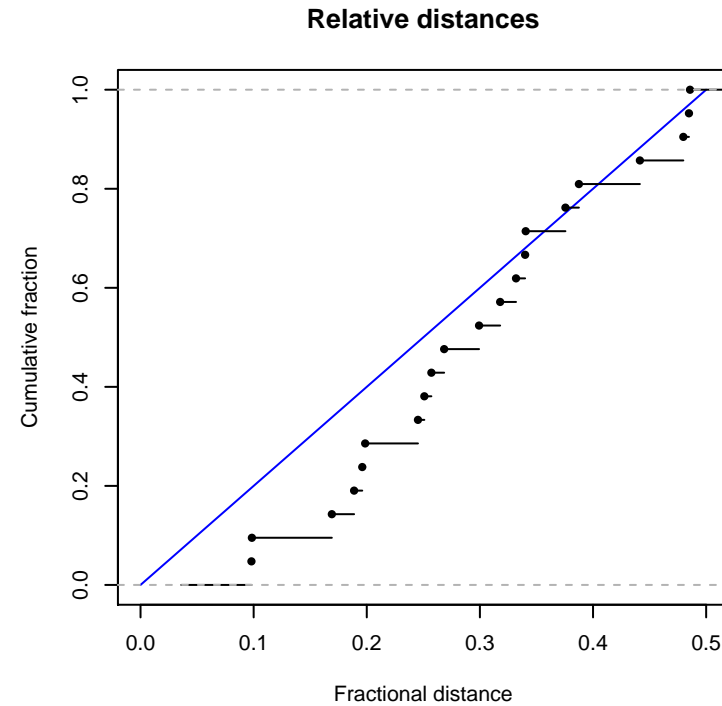
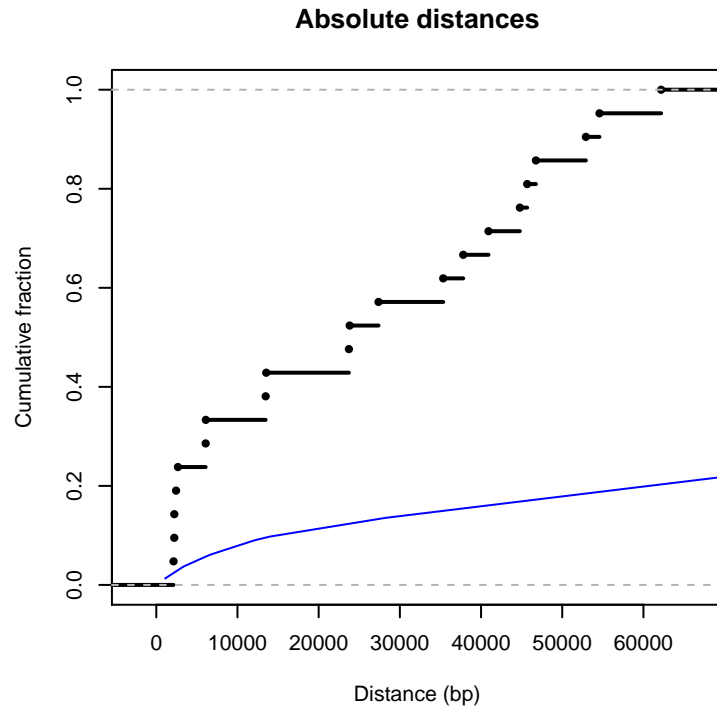


Relative distances



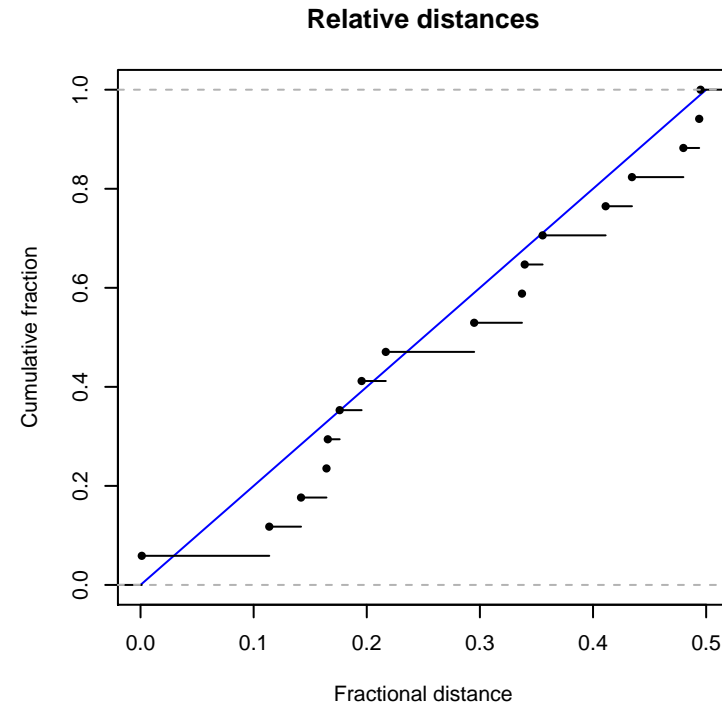
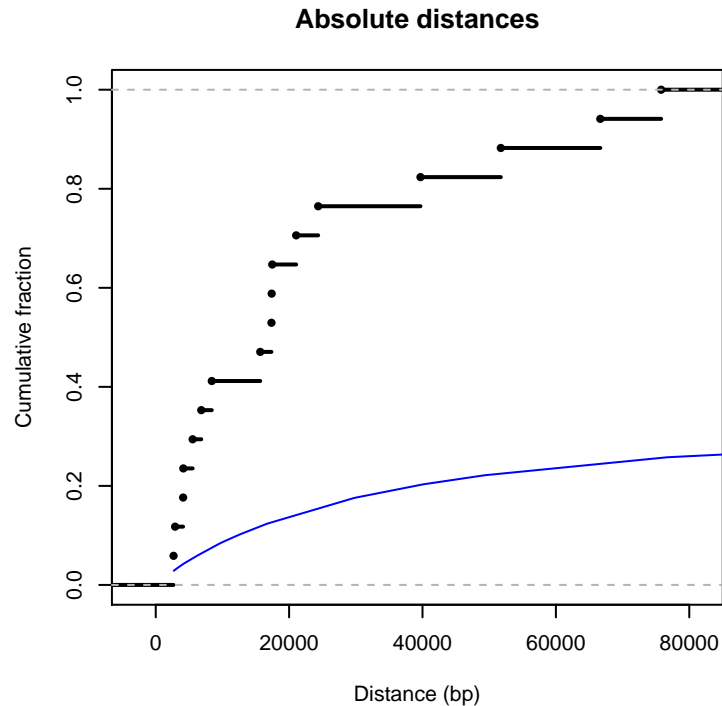
pcontig_049

Query population : 21
Reference population : 18
Relative Ks p-value : 0.14124
Relative ecdf deviation area : 0.0493922
Relative ecdf area correlation : -0.19144
Relative ecdf deviation area p-value : 0.16
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.39
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.114162
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



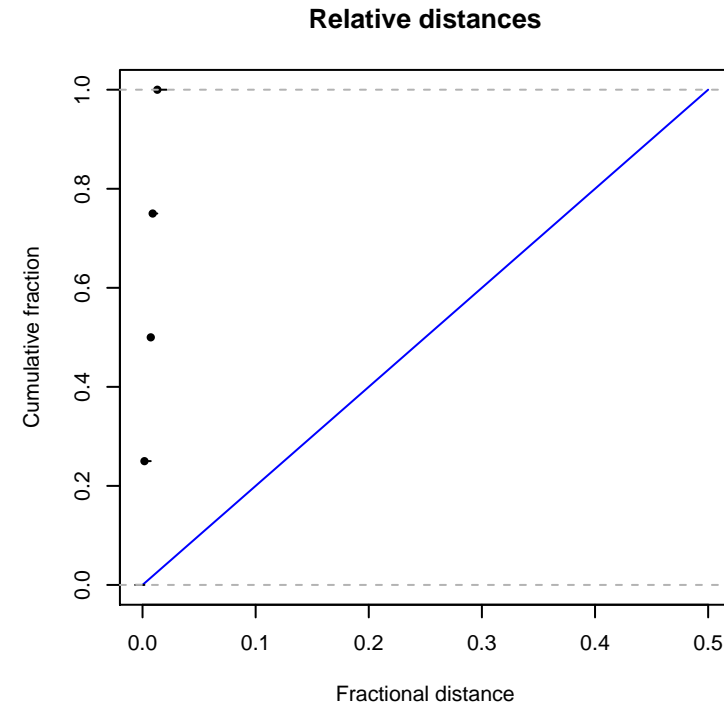
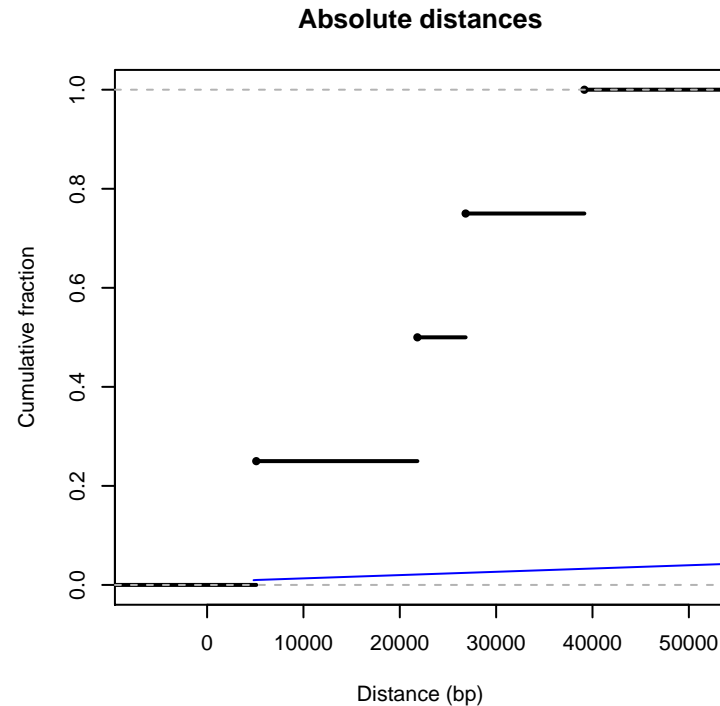
pcontig_050

Query population : 17
Reference population : 16
Relative Ks p-value : 0.657545
Relative ecdf deviation area : 0.0361504
Relative ecdf area correlation : -0.1333
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 : 0.35
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.112907
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_051

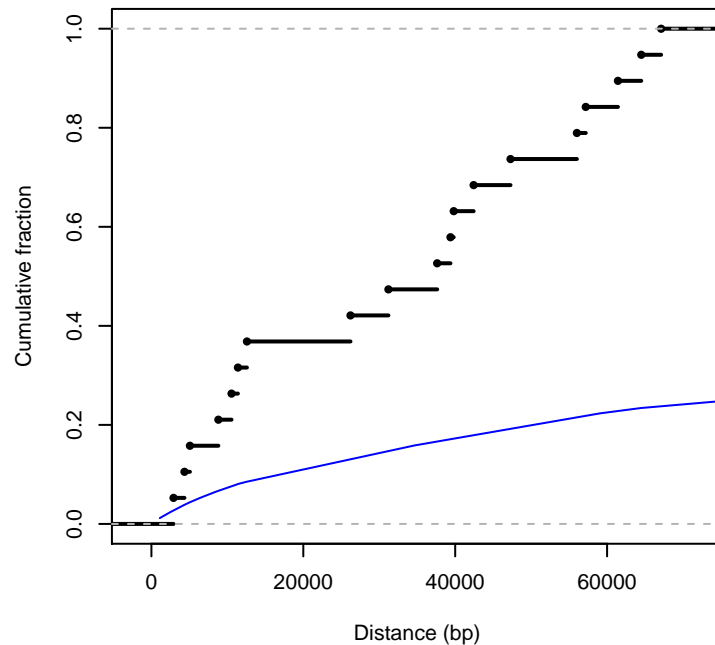
Query population : 4
Reference population : 3
Relative Ks p-value : 9.34527e-07
Relative ecdf deviation area : 0.242148
Relative ecdf area correlation : 0.968979
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00284898
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



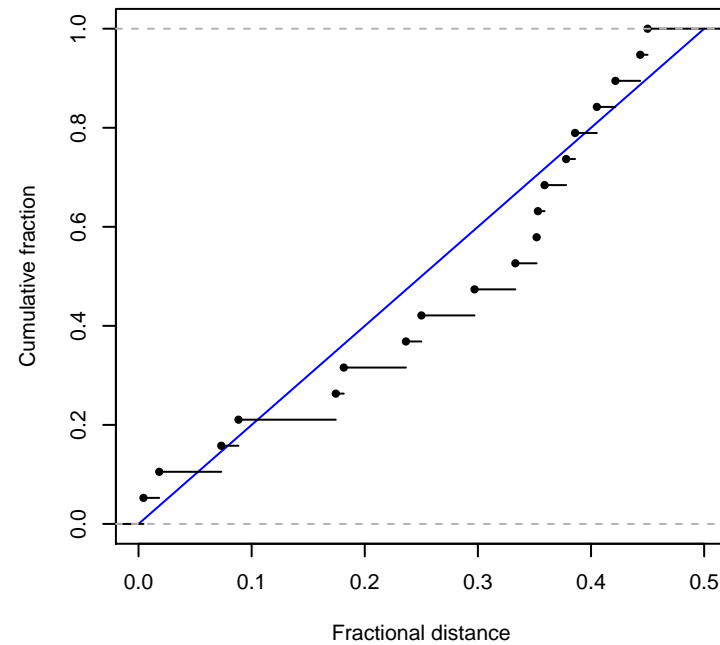
pcontig_052

Query population : 19
Reference population : 16
Relative Ks p-value : 0.428068
Relative ecdf deviation area : 0.0356533
Relative ecdf area correlation : -0.09568
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 : 0.28
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0937183
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

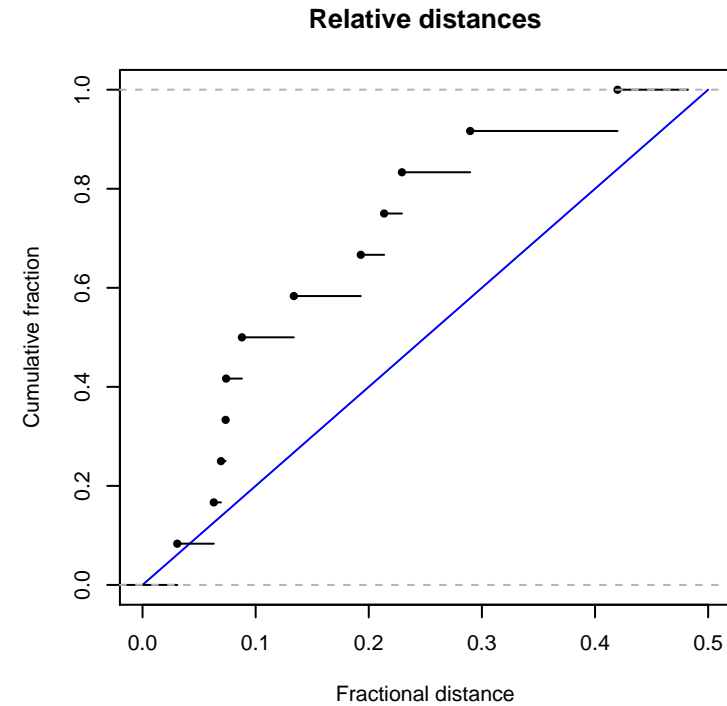
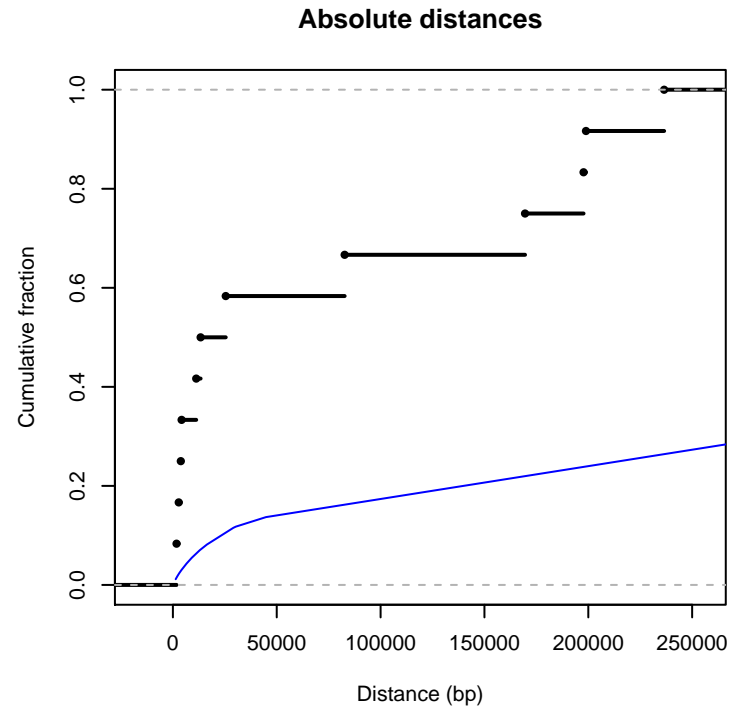


Relative distances



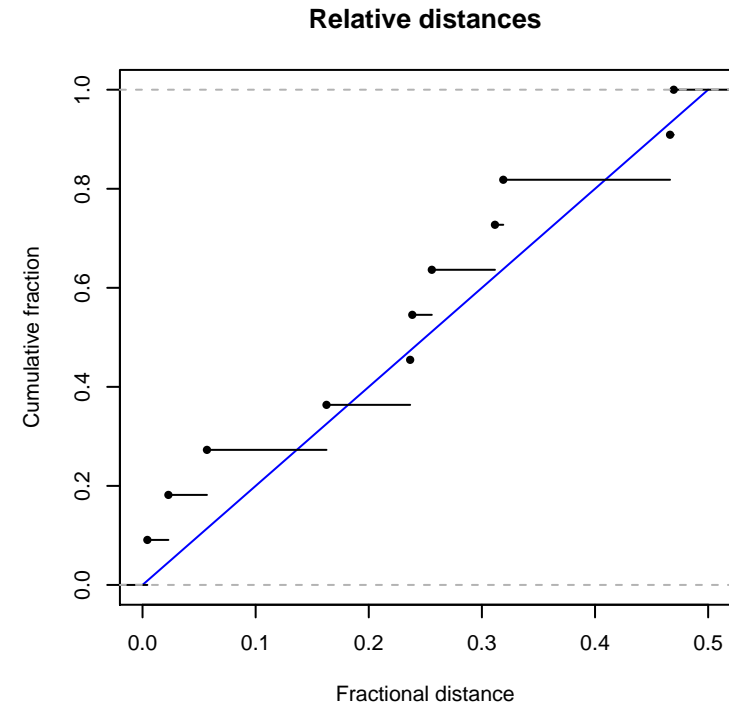
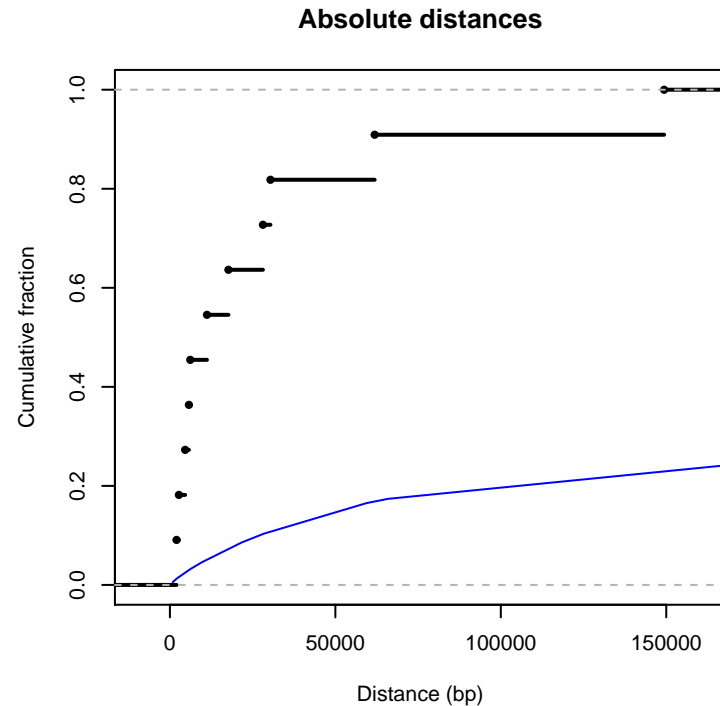
pcontig_054

Query population : 12
Reference population : 13
Relative Ks p-value : 0.0507306
Relative ecdf deviation area : 0.0964505
Relative ecdf area correlation : 0.374217
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 : 0.11
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0469443
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



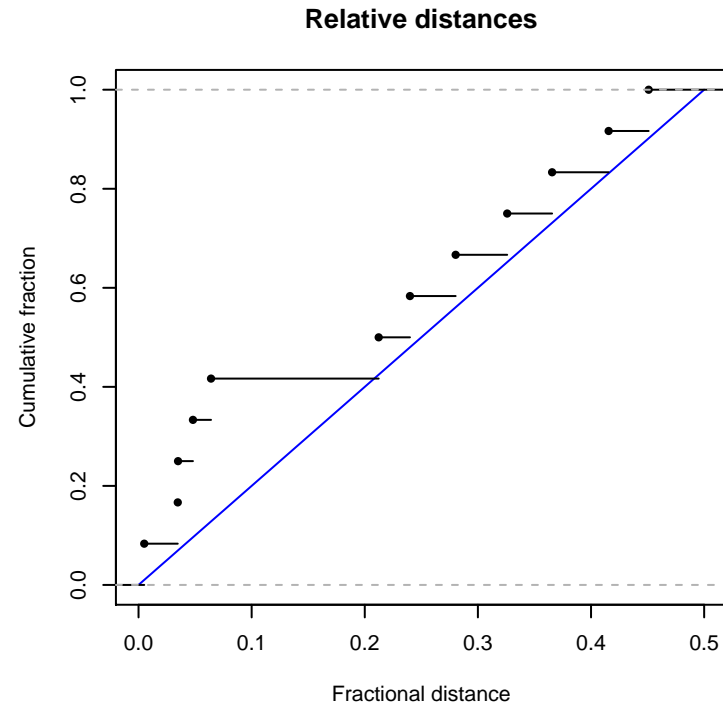
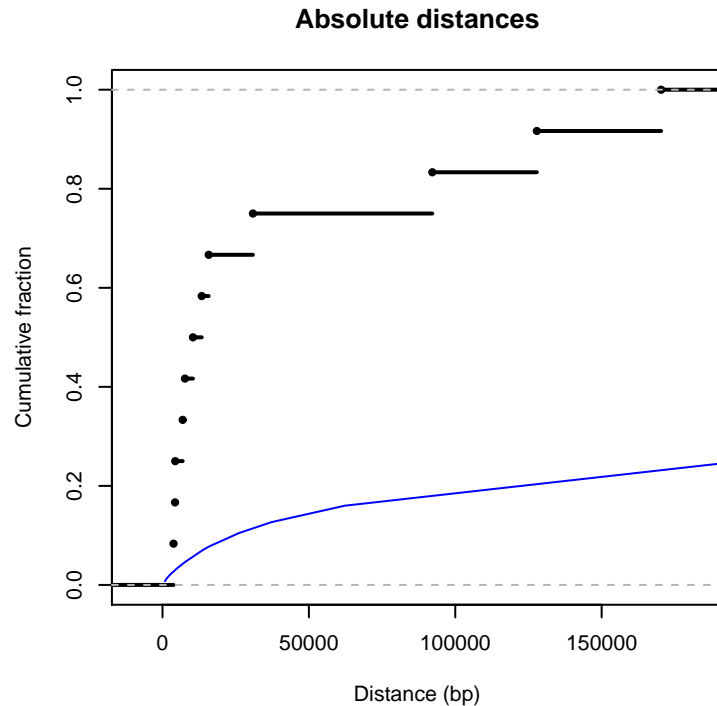
pcontig_055

Query population : 11
Reference population : 10
Relative Ks p-value : 0.806277
Relative ecdf deviation area : 0.0332298
Relative ecdf area correlation : 0.0749732
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 : 0.11
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0451557
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



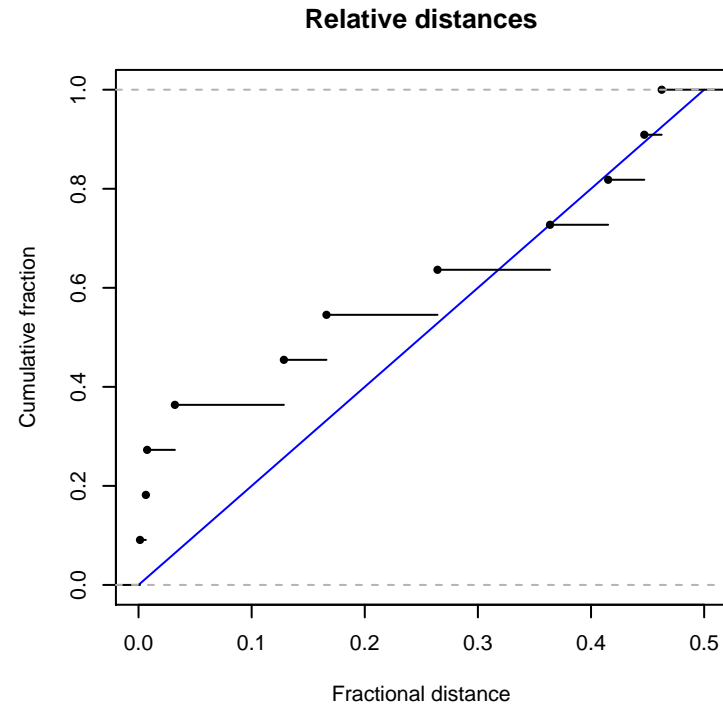
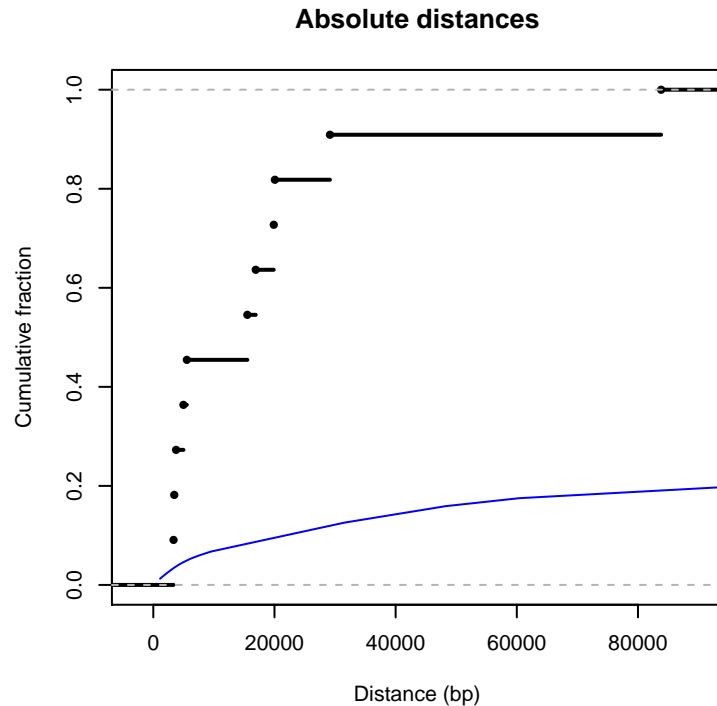
pcontig_056

Query population : 12
Reference population : 14
Relative Ks p-value : 0.222993
Relative ecdf deviation area : 0.0437889
Relative ecdf area correlation : 0.174188
Relative ecdf deviation area p-value : 0.41
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 : 0.0658034
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



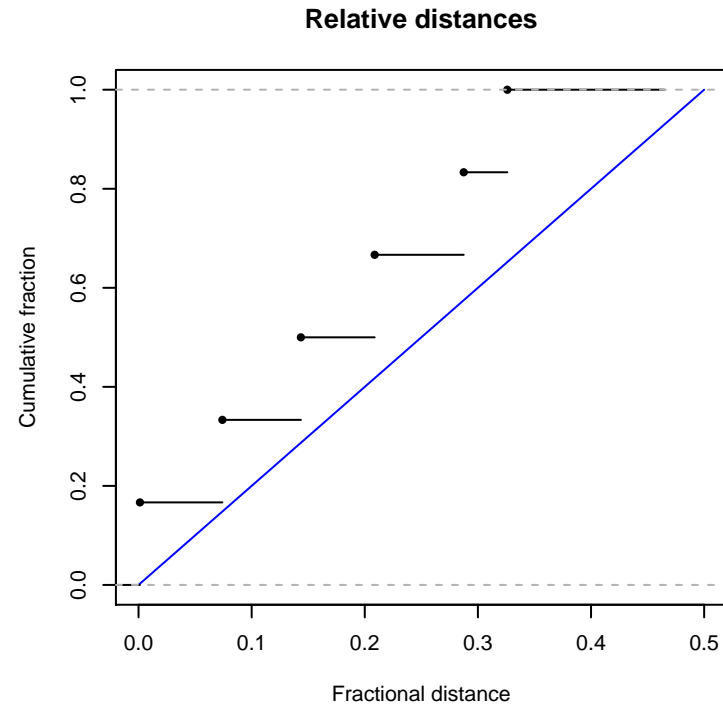
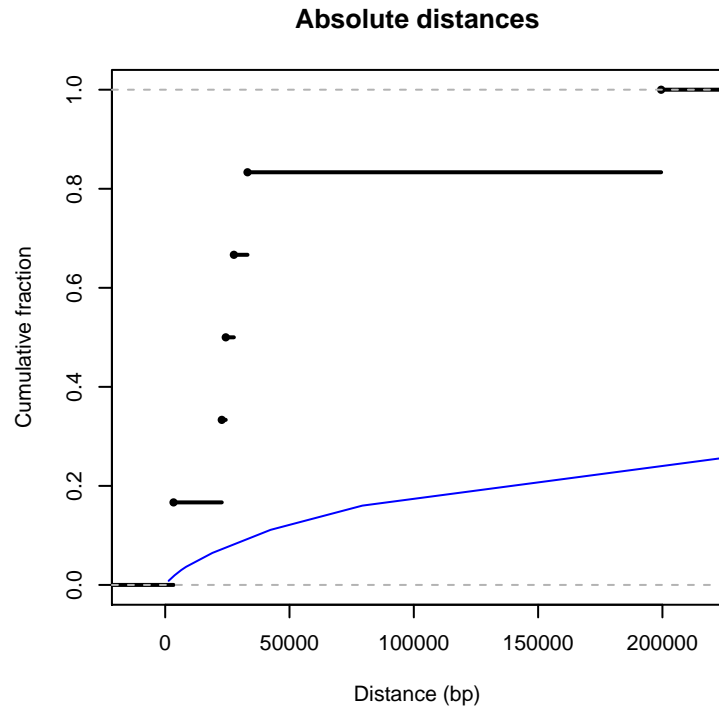
pcontig_057

Query population : 11
Reference population : 17
Relative Ks p-value : 0.227319
Relative ecdf deviation area : 0.0537499
Relative ecdf area correlation : 0.165467
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 : 0.17
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0697367
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



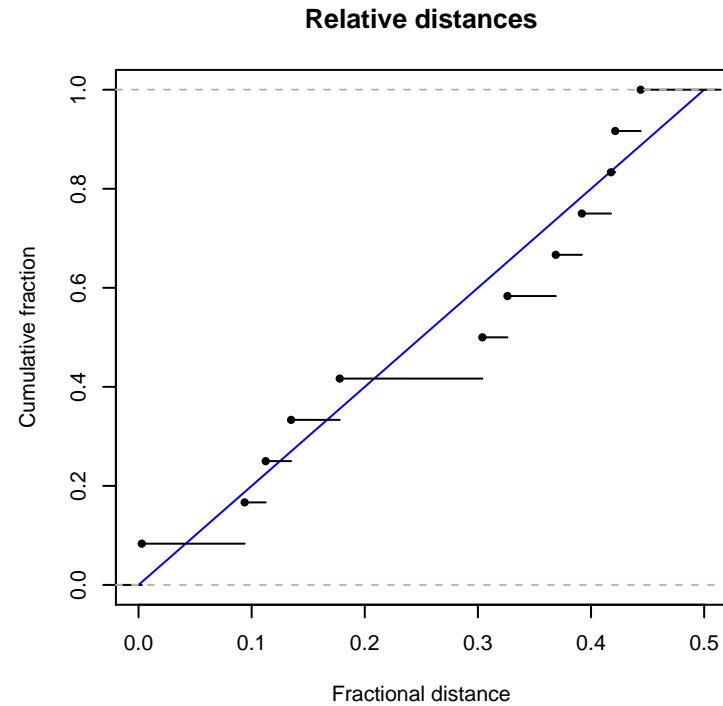
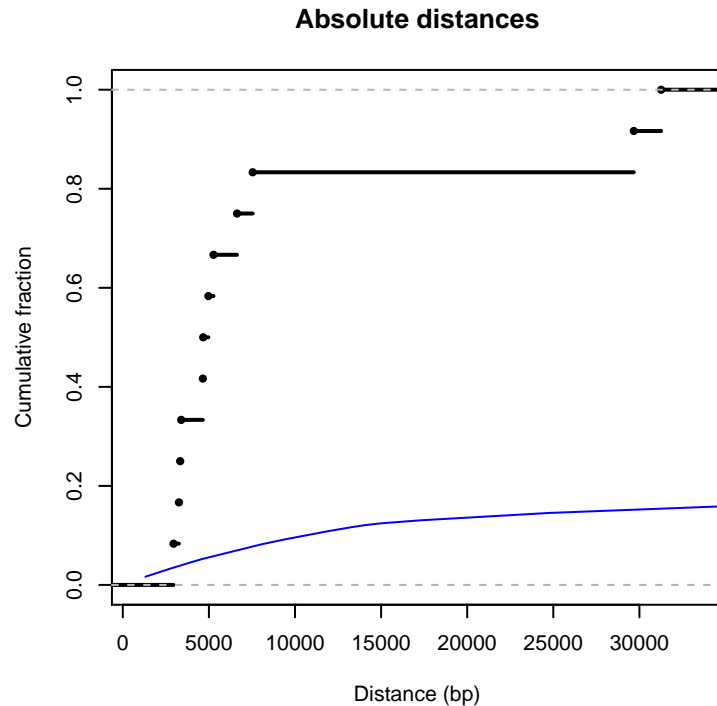
pcontig_058

Query population : 6
Reference population : 9
Relative Ks p-value : 0.373471
Relative ecdf deviation area : 0.0763141
Relative ecdf area correlation : 0.305935
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 : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0265711
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



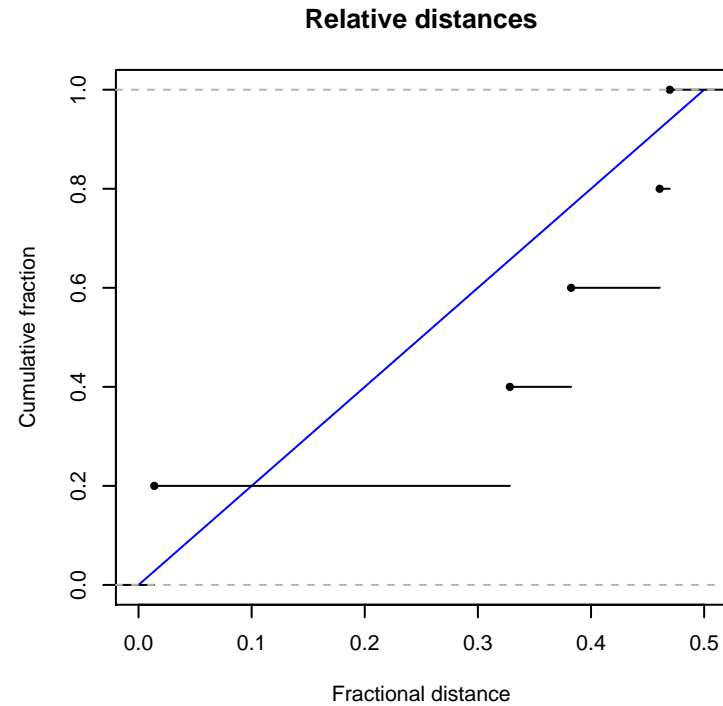
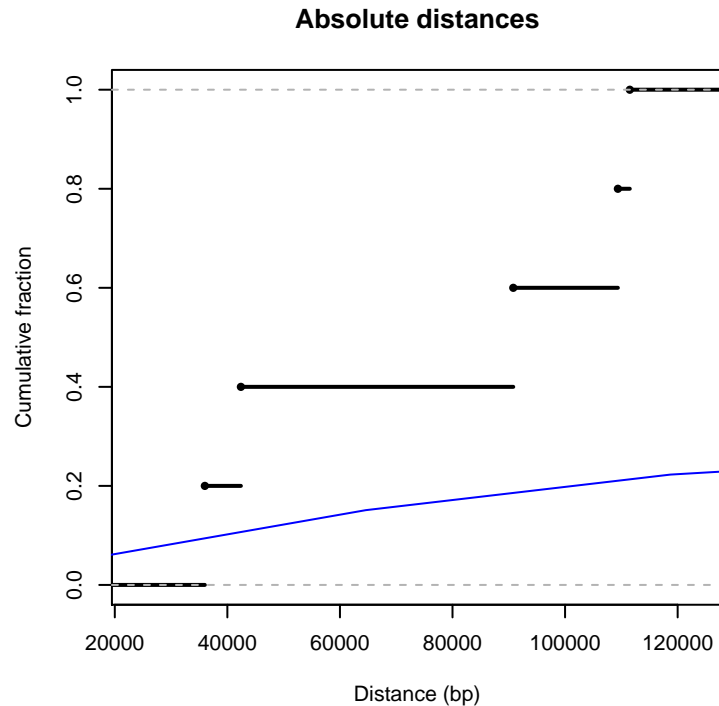
pcontig_059

Query population : 12
Reference population : 19
Relative Ks p-value : 0.704783
Relative ecdf deviation area : 0.0321628
Relative ecdf area correlation : -0.0652229
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 : 0.2
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0842611
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



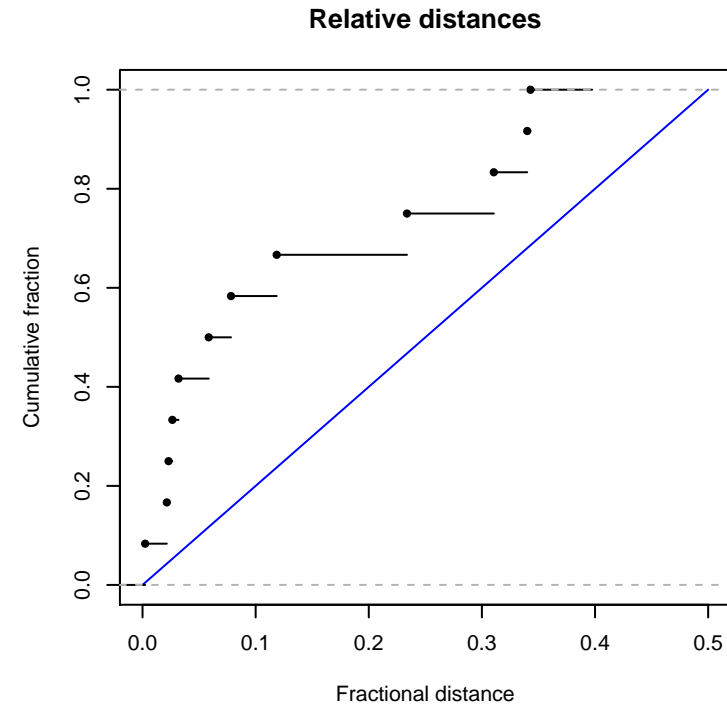
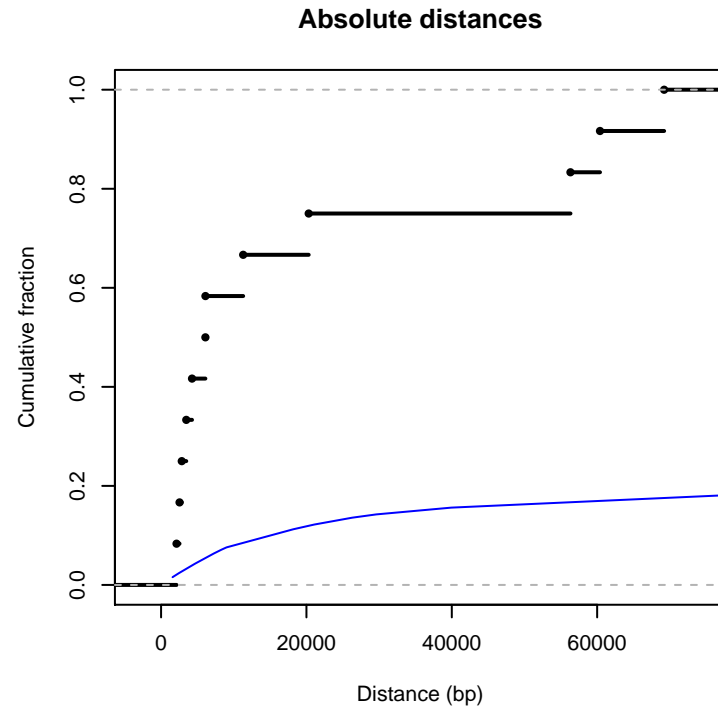
pcontig_060

Query population : 5
Reference population : 9
Relative Ks p-value : 0.181485
Relative ecdf deviation area : 0.0976773
Relative ecdf area correlation : -0.323862
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 : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0187328
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



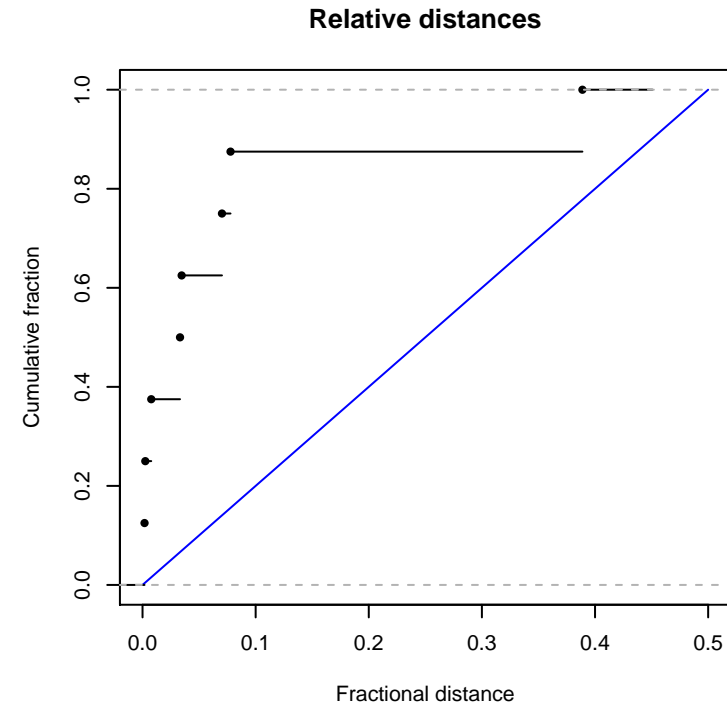
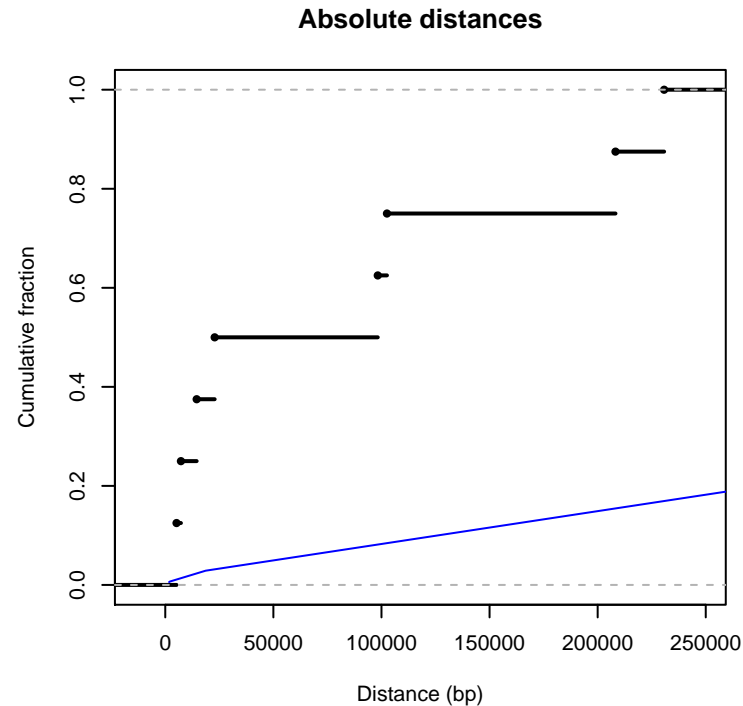
pcontig_062

Query population : 12
Reference population : 15
Relative Ks p-value : 0.0158452
Relative ecdf deviation area : 0.117461
Relative ecdf area correlation : 0.470795
Relative ecdf deviation area p-value : 0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.2
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0609576
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



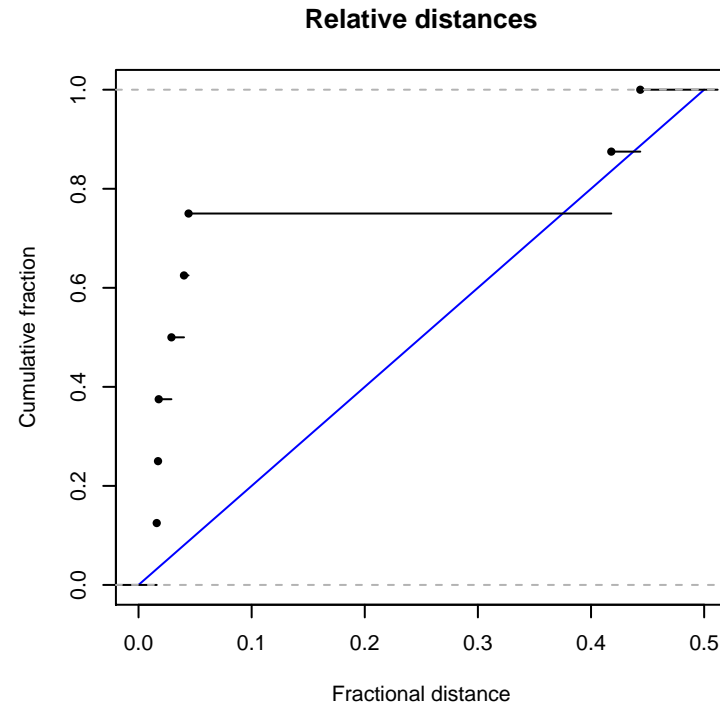
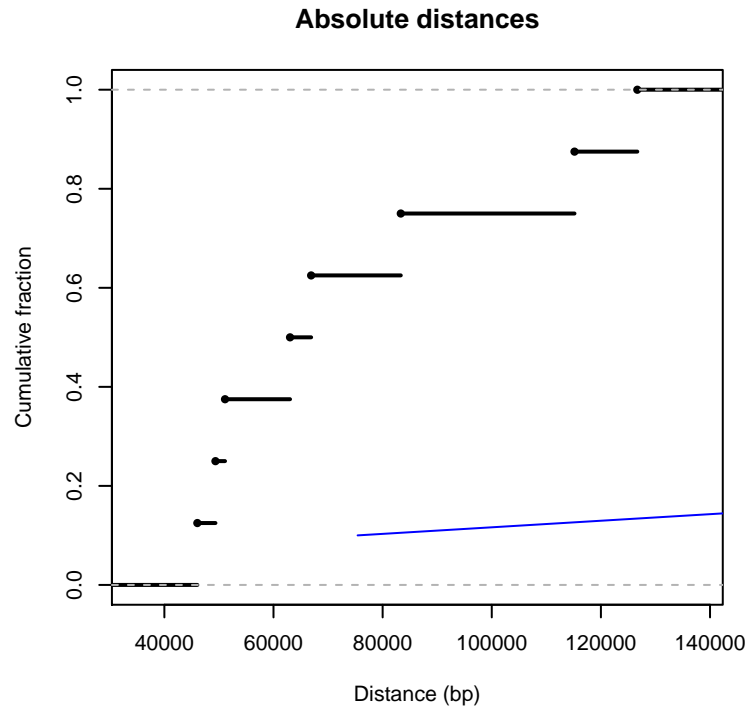
pcontig_064

Query population : 8
Reference population : 5
Relative Ks p-value : 0.000102308
Relative ecdf deviation area : 0.172699
Relative ecdf area correlation : 0.691756
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.024349
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



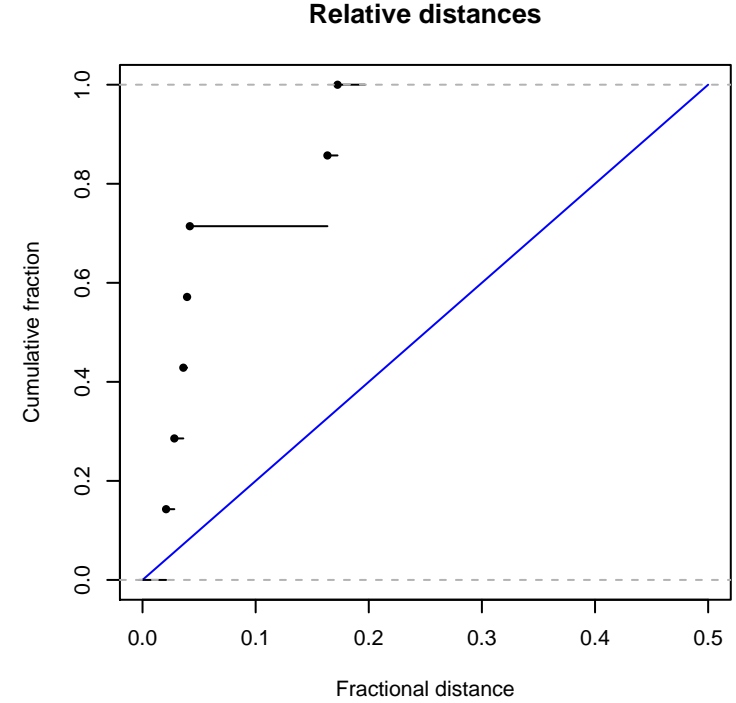
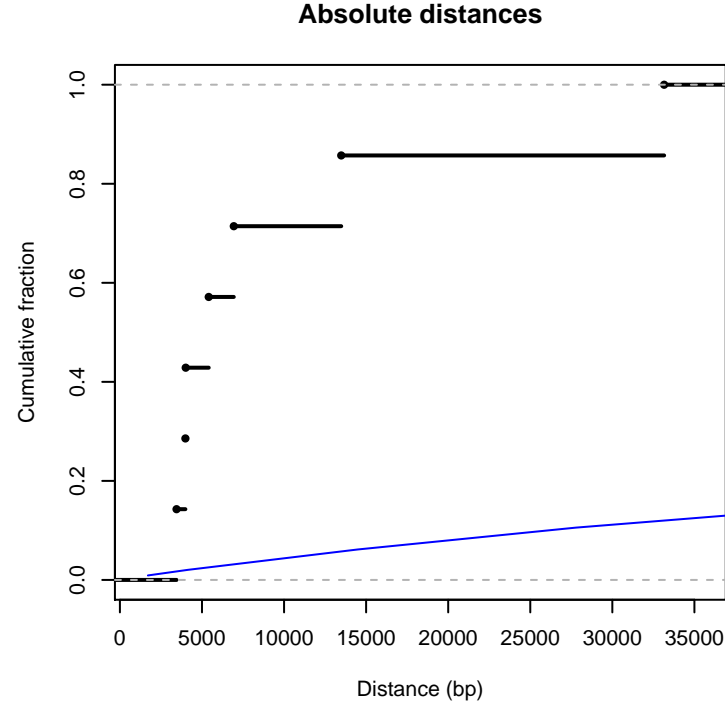
pcontig_065

Query population : 8
Reference population : 2
Relative Ks p-value : 0.000574084
Relative ecdf deviation area : 0.126159
Relative ecdf area correlation : 0.486933
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 : 0.0052093
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



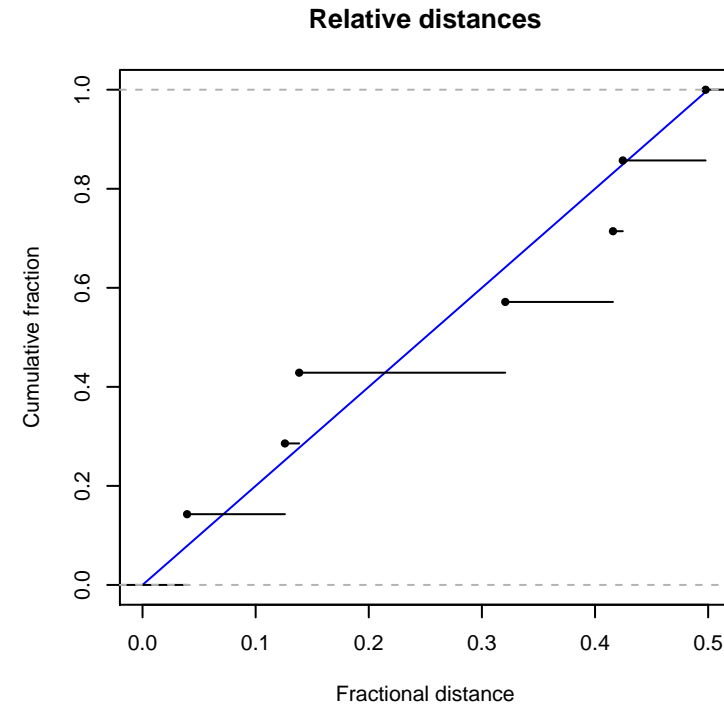
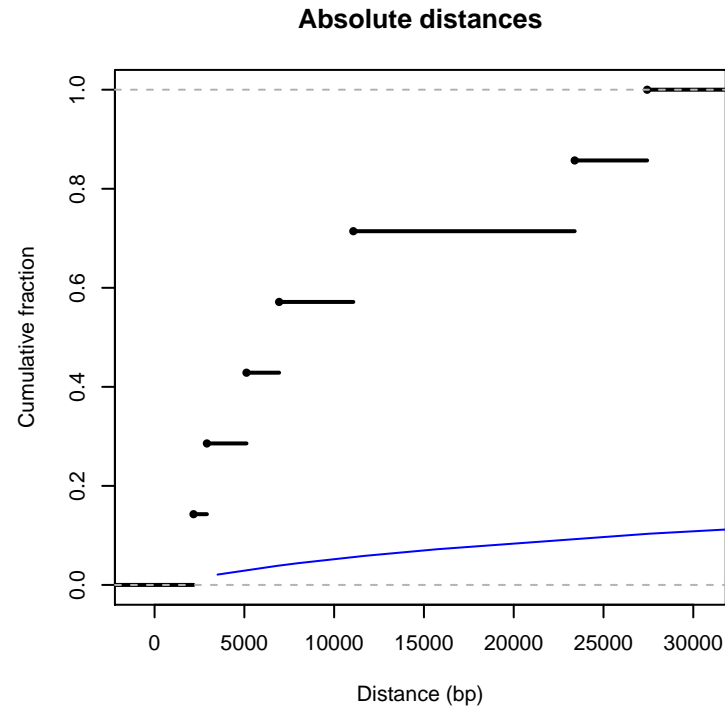
pcontig_066

Query population : 7
Reference population : 8
Relative Ks p-value : 0.00179799
Relative ecdf deviation area : 0.179106
Relative ecdf area correlation : 0.713098
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 : 0.06000000000000001
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0209301
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



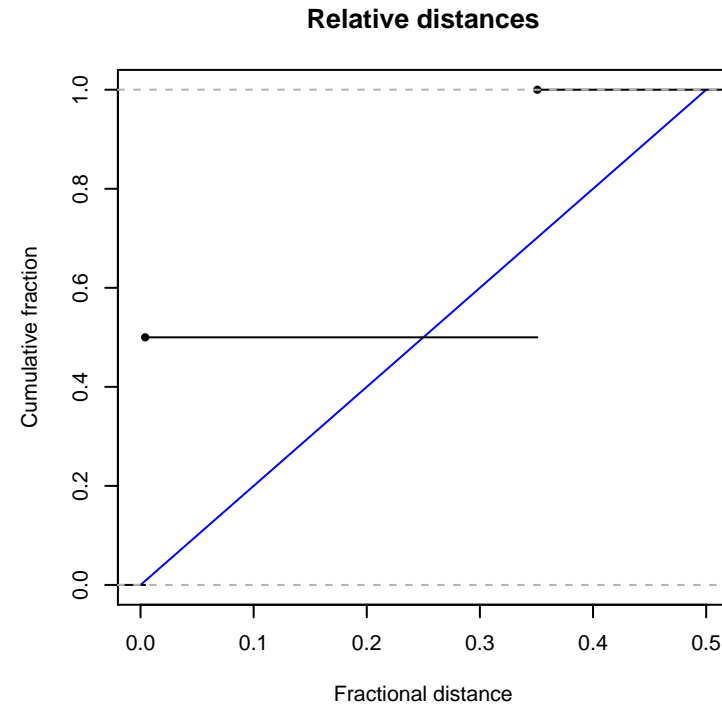
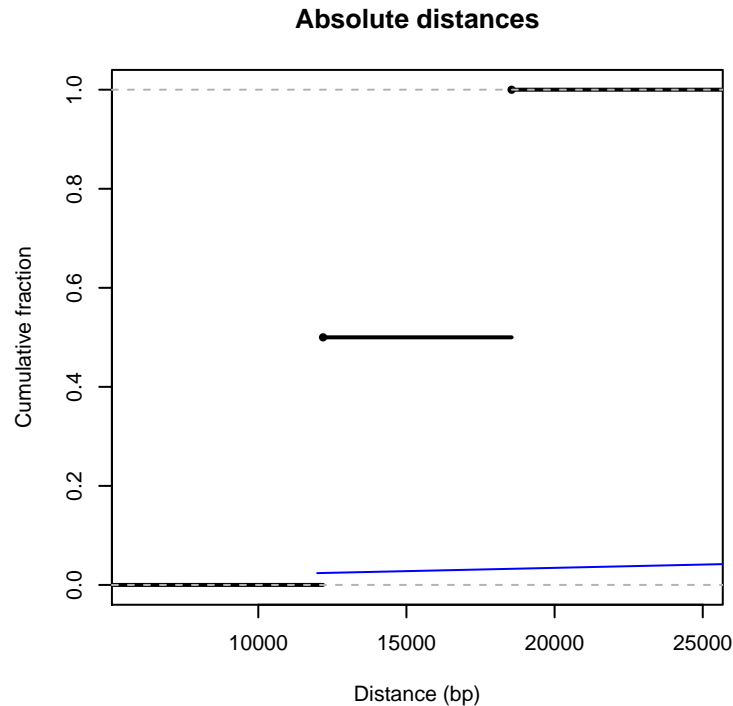
pcontig_067

Query population : 7
Reference population : 9
Relative Ks p-value : 0.640099
Relative ecdf deviation area : 0.0441806
Relative ecdf area correlation : -0.1215
Relative ecdf deviation area p-value : 0.69
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.09
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0209597
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



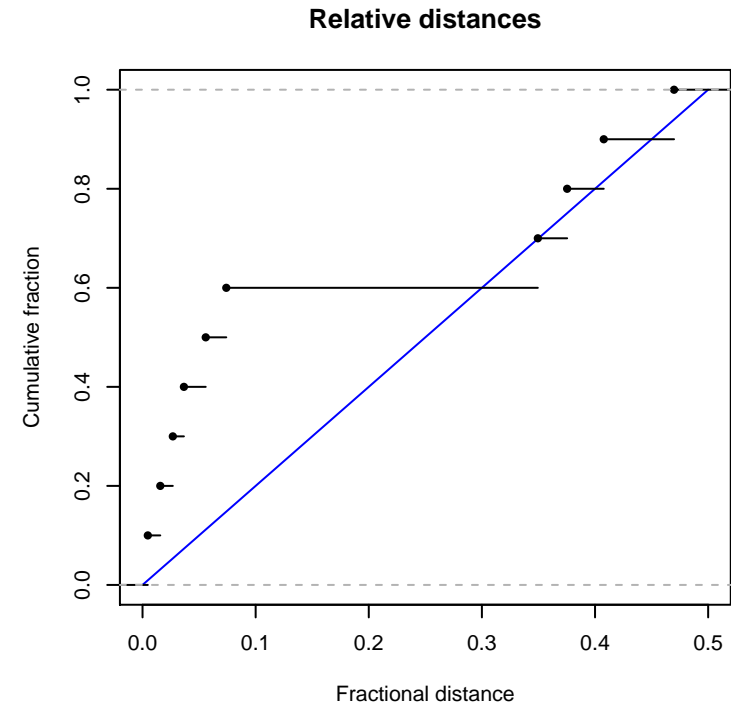
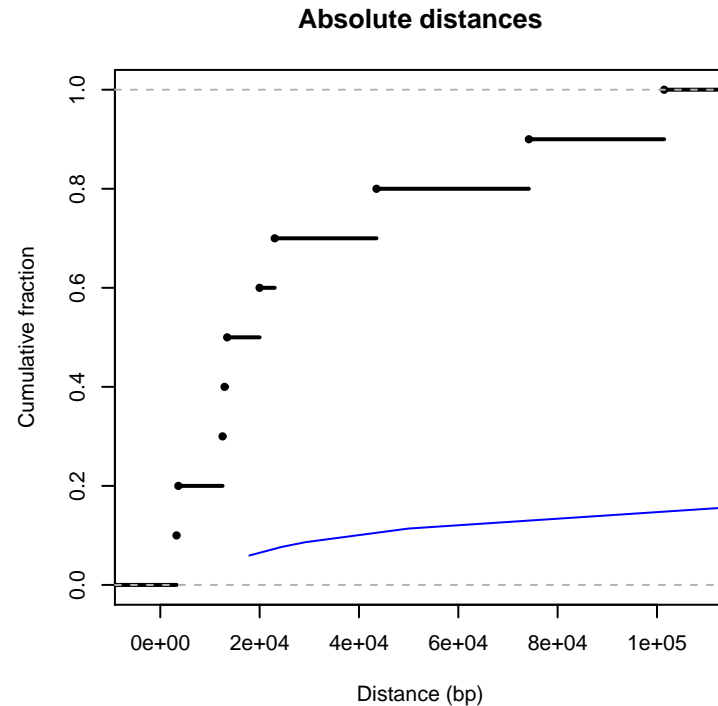
pcontig_068

Query population : 2
Reference population : 3
Relative Ks p-value : 0.532627
Relative ecdf deviation area : 0.0933988
Relative ecdf area correlation : 0.290169
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 : 0.00240355
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



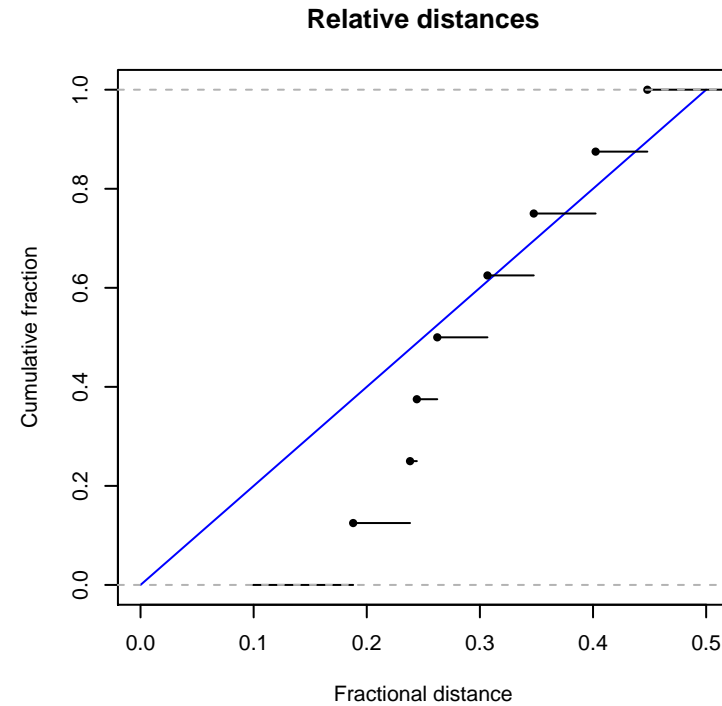
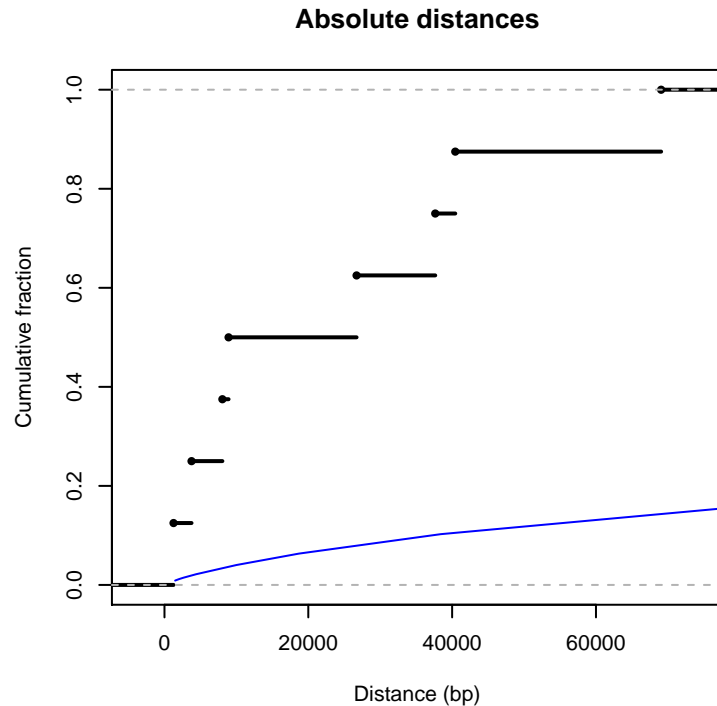
pcontig_069

Query population : 10
Reference population : 5
Relative Ks p-value : 0.0220173
Relative ecdf deviation area : 0.0756343
Relative ecdf area correlation : 0.273597
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 : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0268278
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



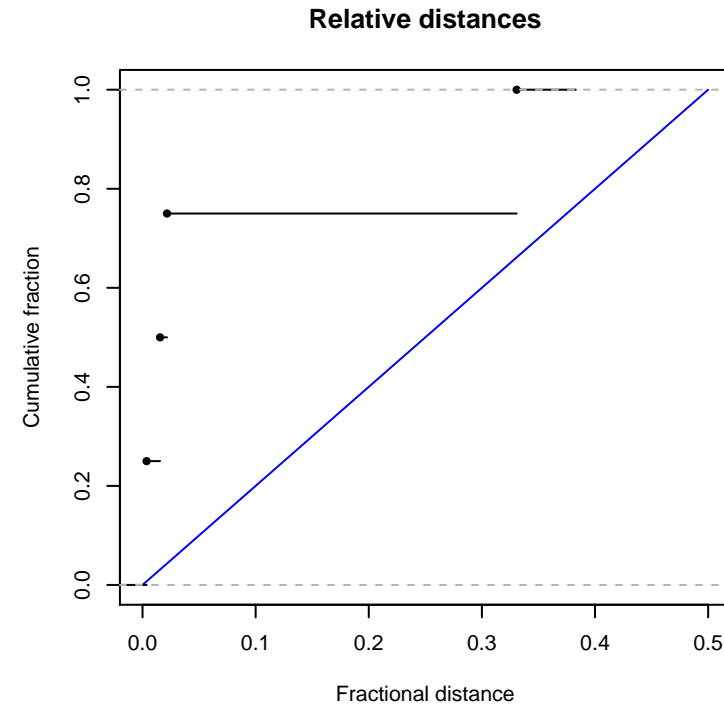
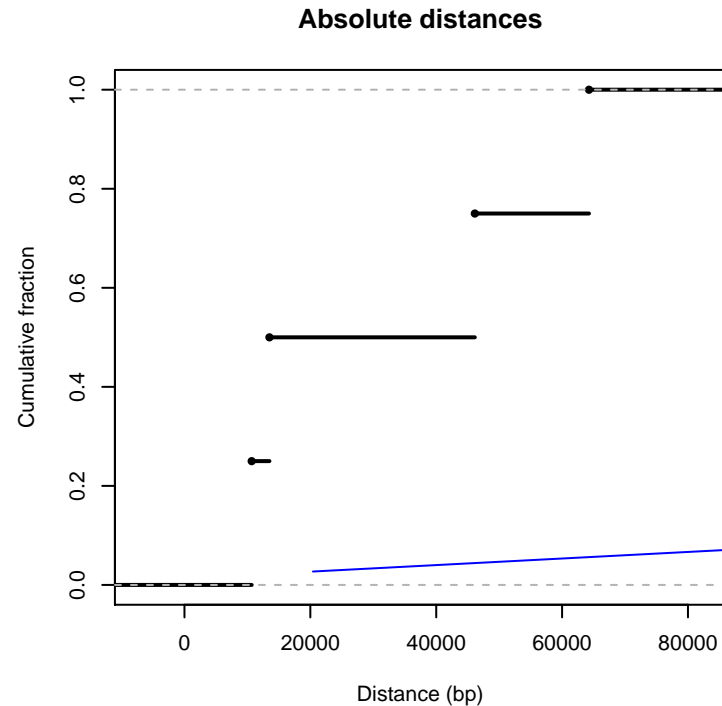
pcontig_070

Query population : 8
Reference population : 9
Relative Ks p-value : 0.159579
Relative ecdf deviation area : 0.063782
Relative ecdf area correlation : -0.218698
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 : 0.07
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0275121
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



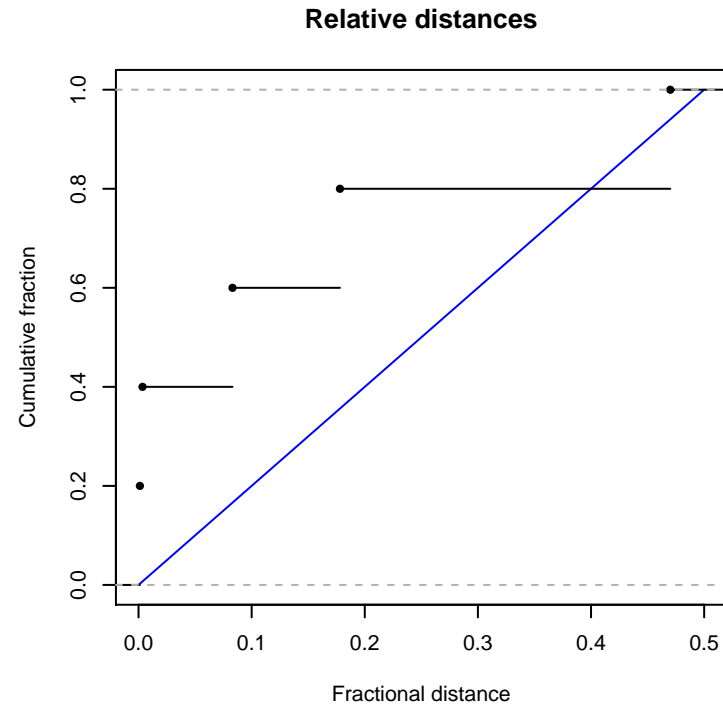
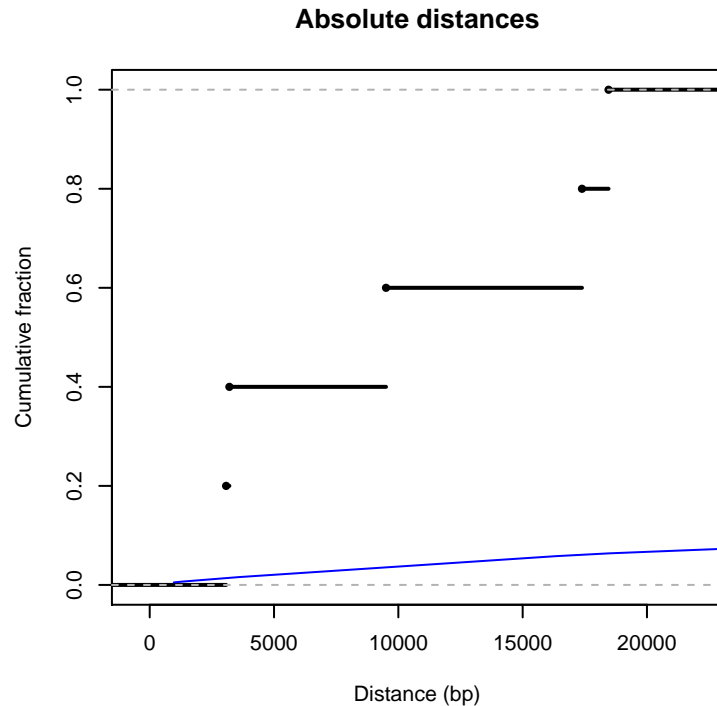
pcontig_072

Query population : 4
Reference population : 2
Relative Ks p-value : 0.0152399
Relative ecdf deviation area : 0.156661
Relative ecdf area correlation : 0.628586
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00324868
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



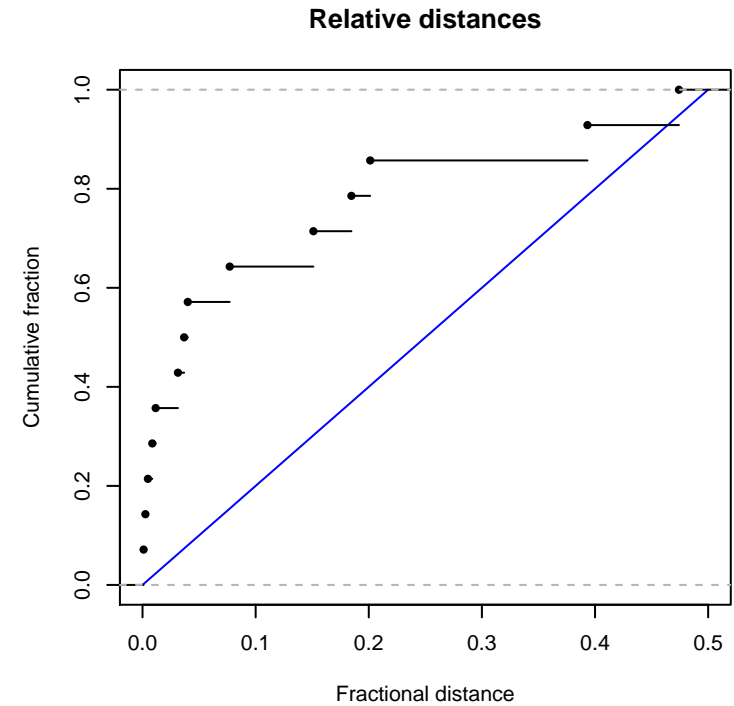
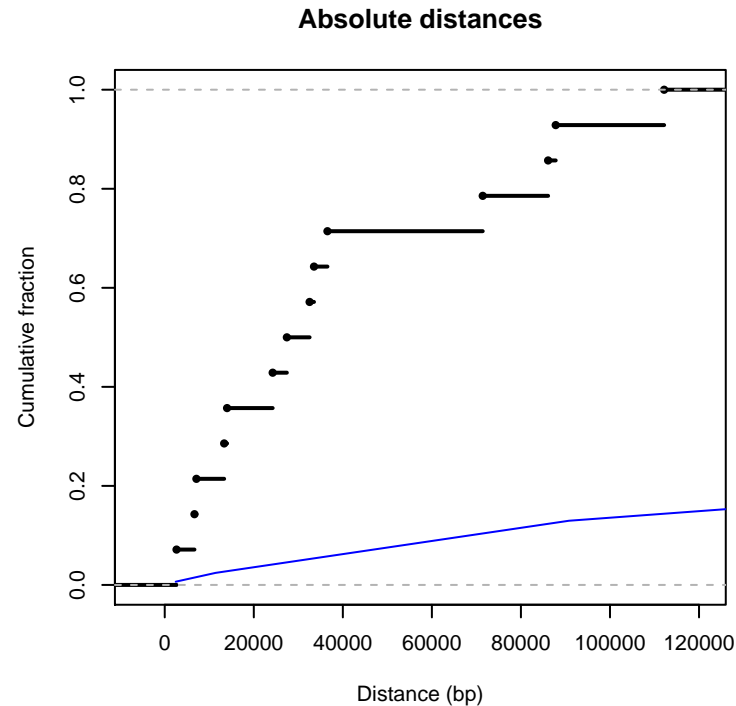
pcontig_073

Query population : 5
Reference population : 8
Relative Ks p-value : 0.206174
Relative ecdf deviation area : 0.112466
Relative ecdf area correlation : 0.411262
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0106199
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



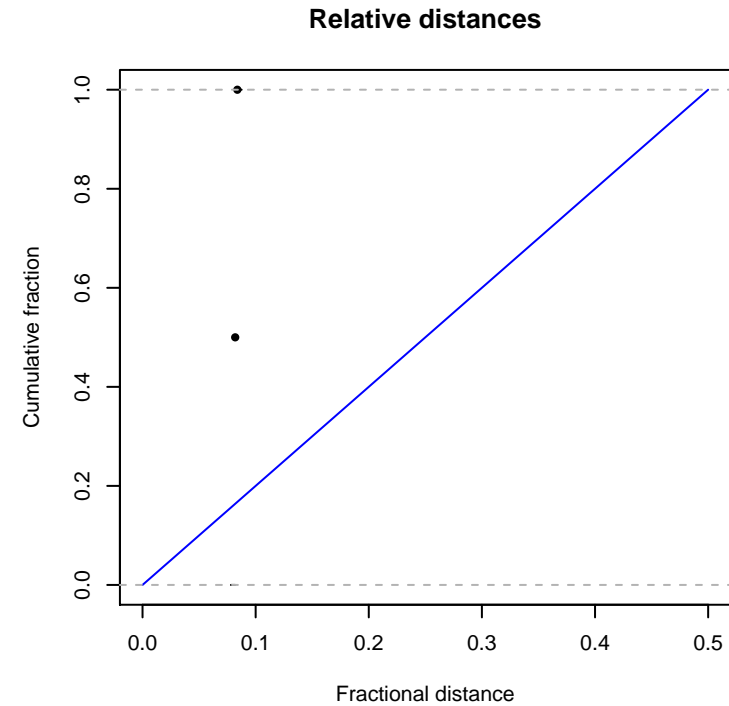
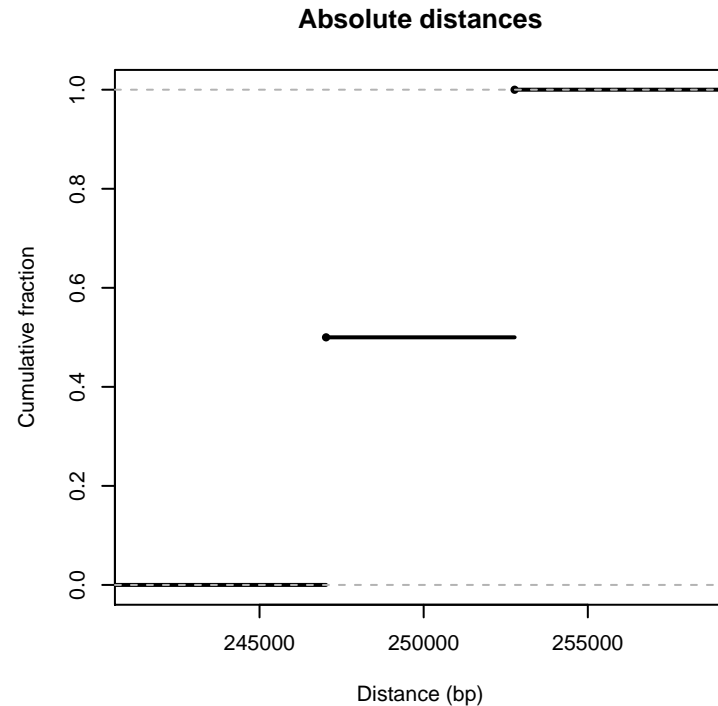
pcontig_074

Query population : 14
Reference population : 4
Relative Ks p-value : 0.00121137
Relative ecdf deviation area : 0.134793
Relative ecdf area correlation : 0.537696
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 : 0.0279972
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



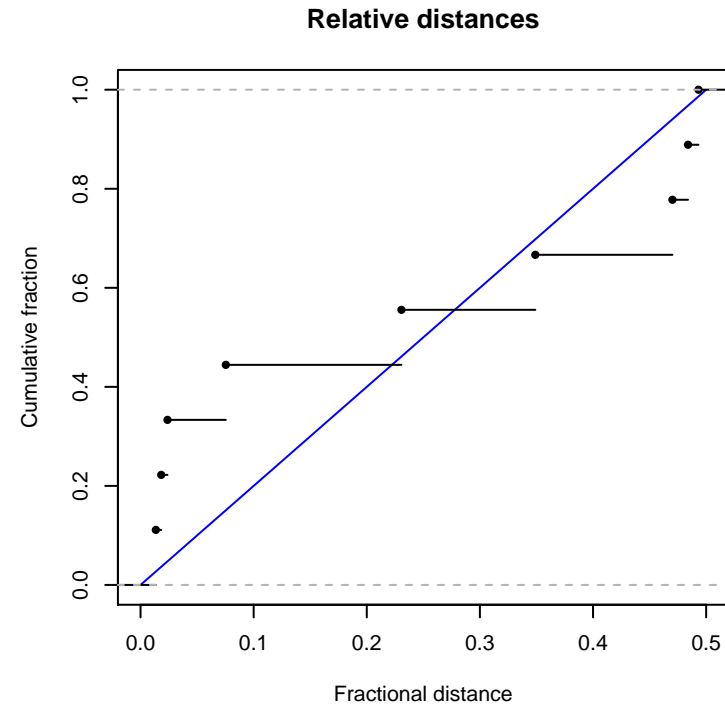
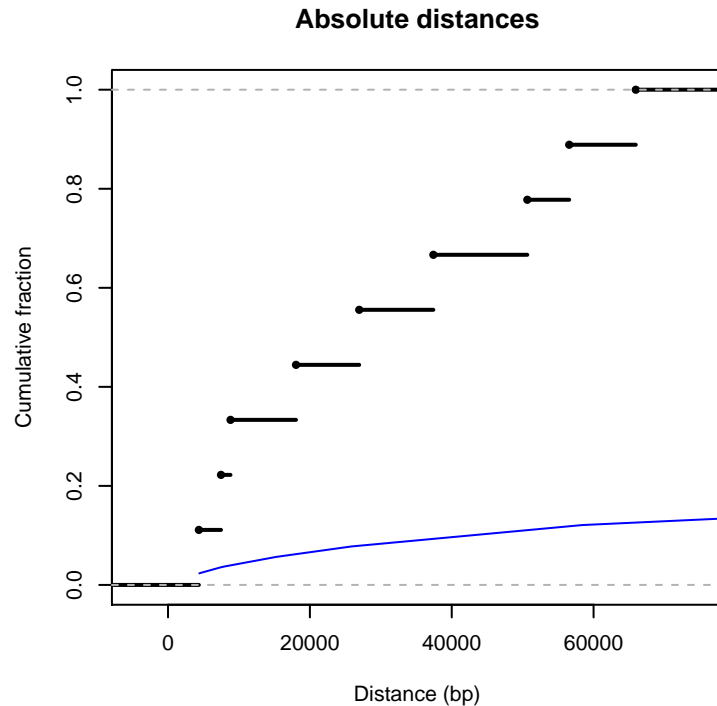
pcontig_075

Query population : 2
Reference population : 1
Relative Ks p-value : 0.0562151
Relative ecdf deviation area : 0.1806
Relative ecdf area correlation : 0.668503
Relative ecdf deviation area p-value : 0.06000000000000001
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 : 0.000534519
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



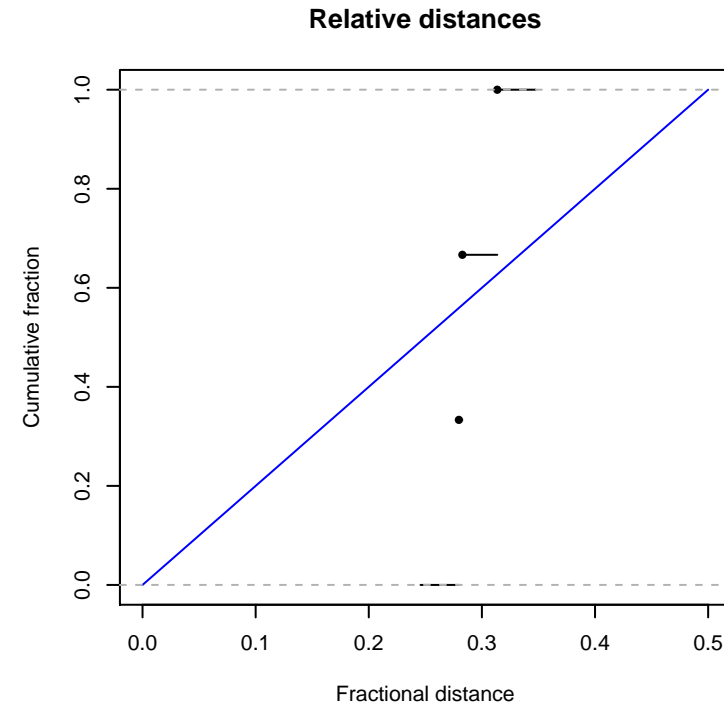
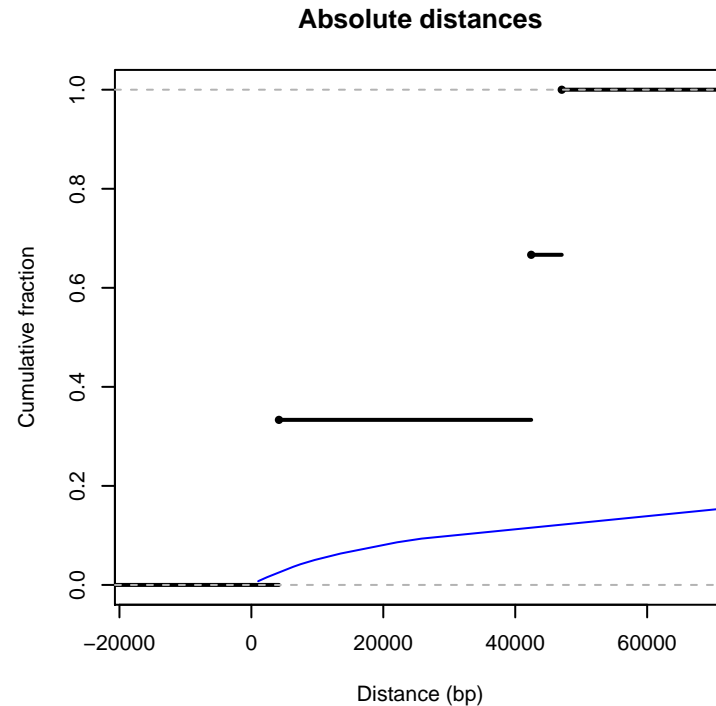
pcontig_077

Query population : 9
Reference population : 8
Relative Ks p-value : 0.348804
Relative ecdf deviation area : 0.0642458
Relative ecdf area correlation : 0.0408715
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 : 0.09
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.025214
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



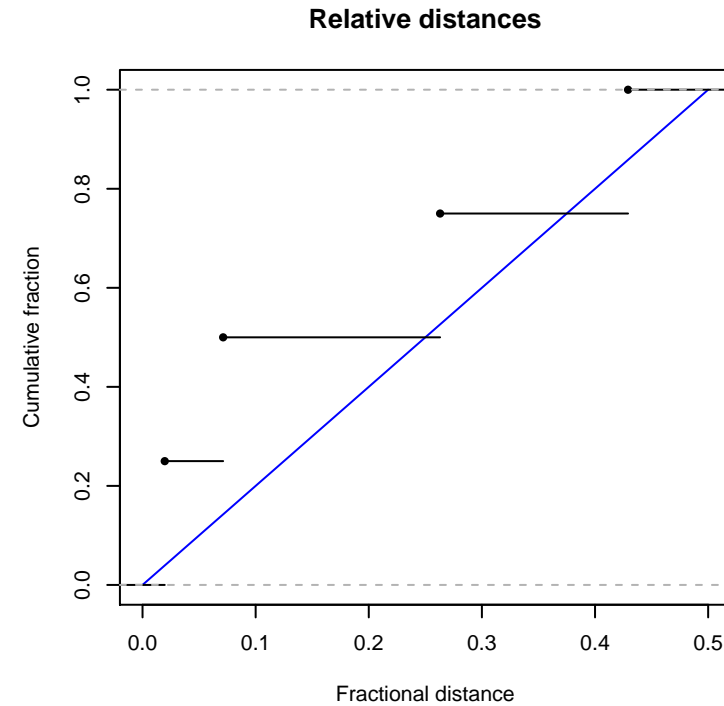
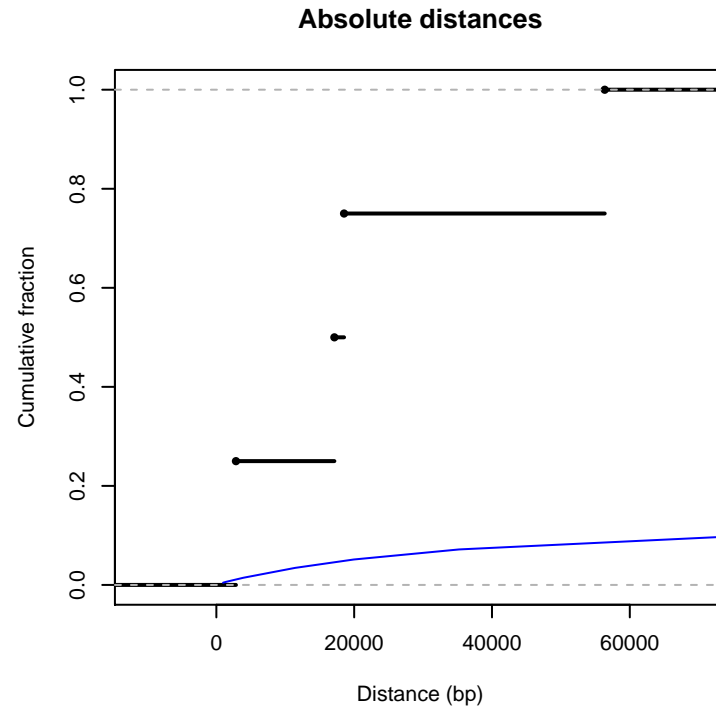
pcontig_078

Query population : 3
Reference population : 11
Relative Ks p-value : 0.209855
Relative ecdf deviation area : 0.115758
Relative ecdf area correlation : -0.16797
Relative ecdf deviation area p-value : 0.19
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.05
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0101986
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



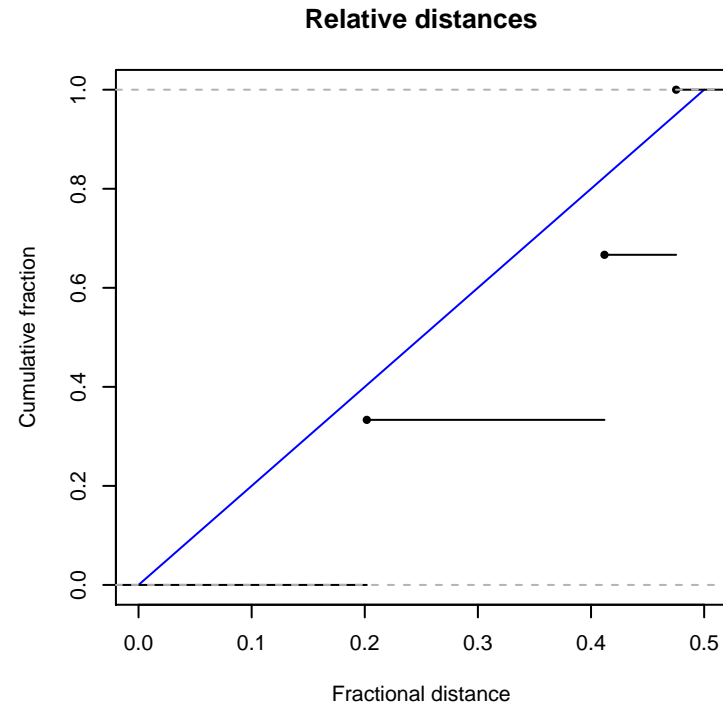
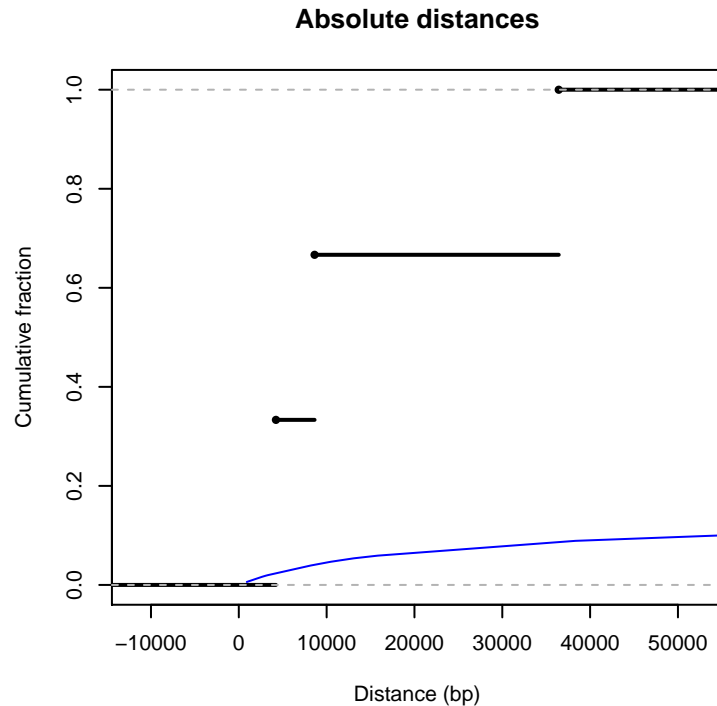
pcontig_080

Query population : 4
Reference population : 7
Relative Ks p-value : 0.579325
Relative ecdf deviation area : 0.0616013
Relative ecdf area correlation : 0.216857
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 : 0.03
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00524006
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



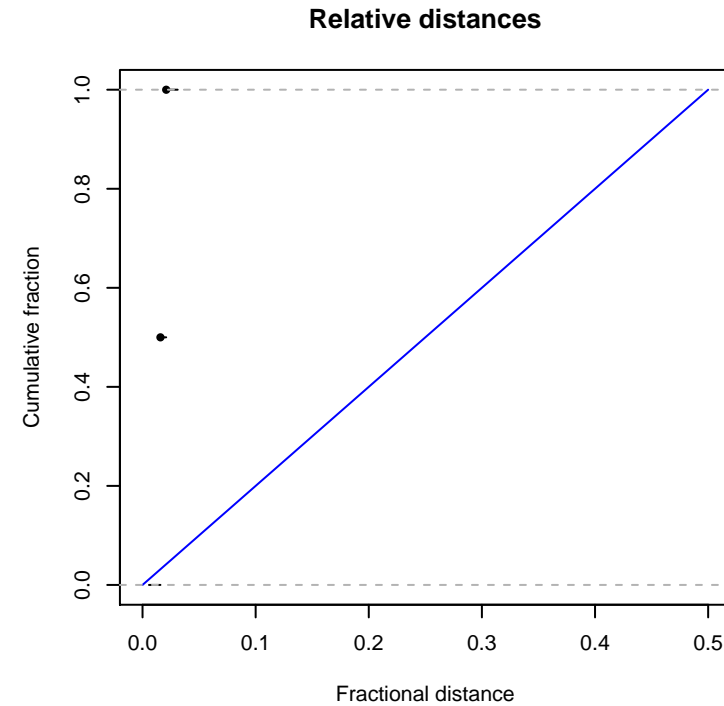
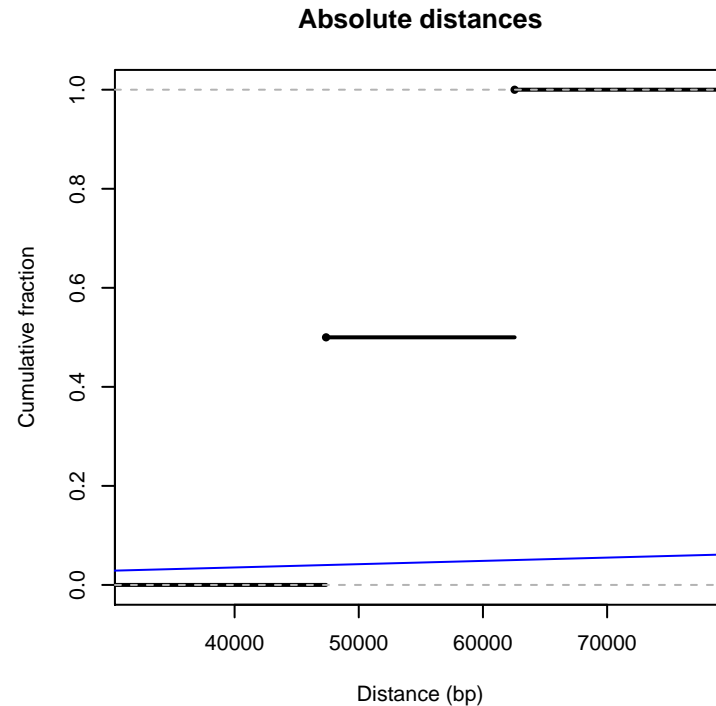
pcontig_081

Query population : 3
Reference population : 10
Relative Ks p-value : 0.355954
Relative ecdf deviation area : 0.114195
Relative ecdf area correlation : -0.451906
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 : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00882153
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_082

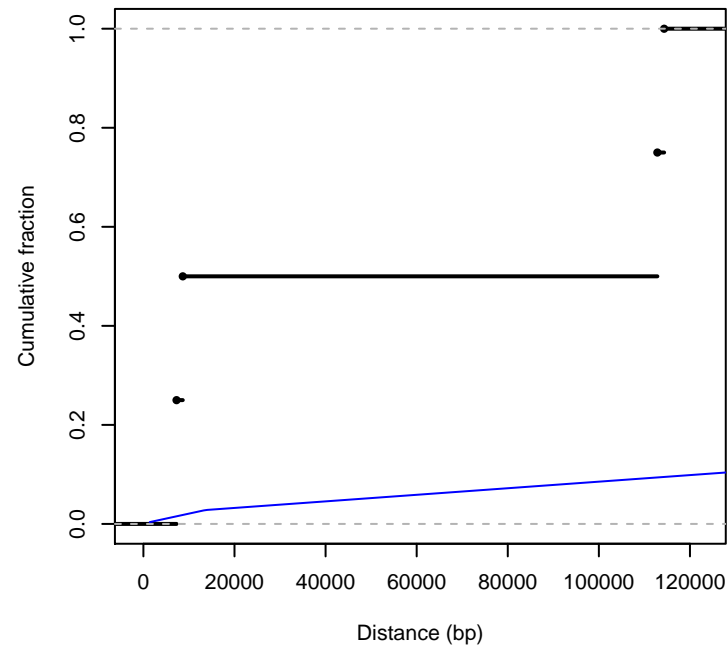
Query population : 2
Reference population : 2
Relative Ks p-value : 0.00350332
Relative ecdf deviation area : 0.232233
Relative ecdf area correlation : 0.926453
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00125516
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



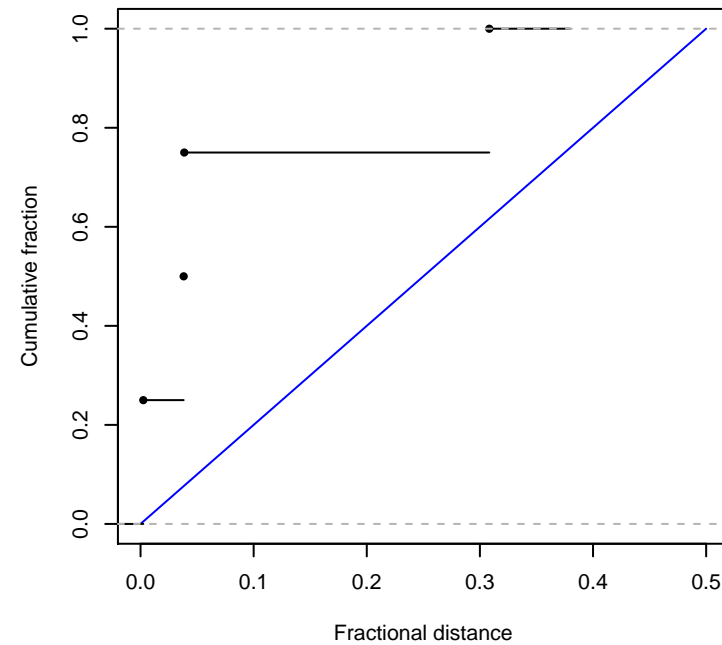
pcontig_083

Query population : 4
Reference population : 4
Relative Ks p-value : 0.0254379
Relative ecdf deviation area : 0.152451
Relative ecdf area correlation : 0.612441
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 : 0.00704638
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

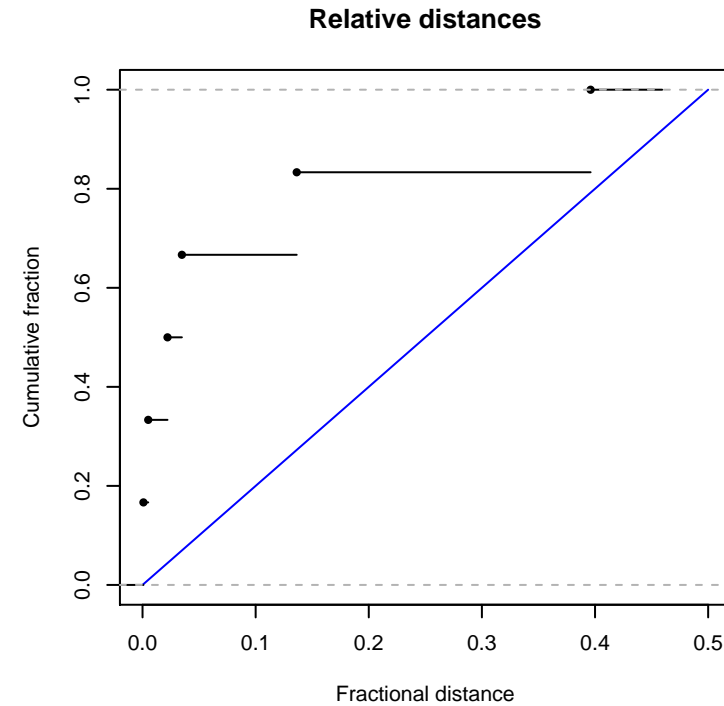
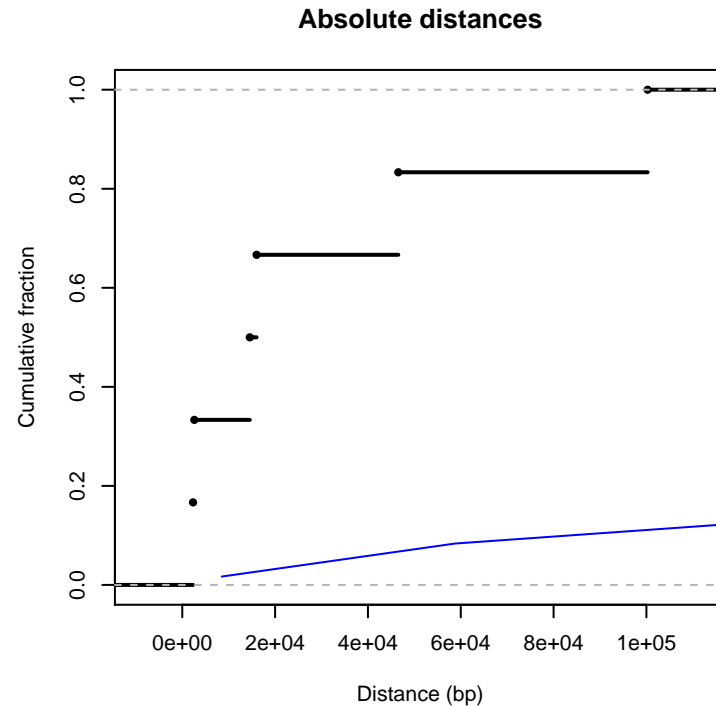


Relative distances



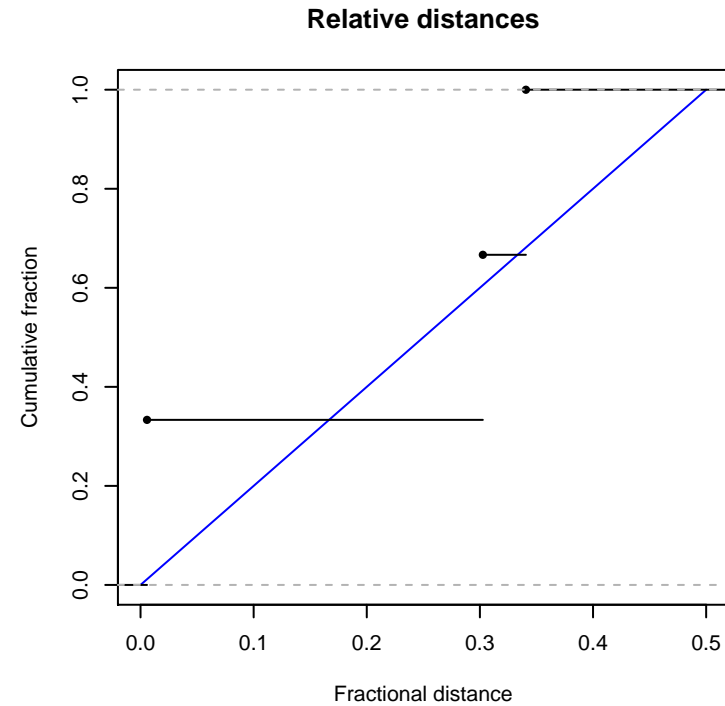
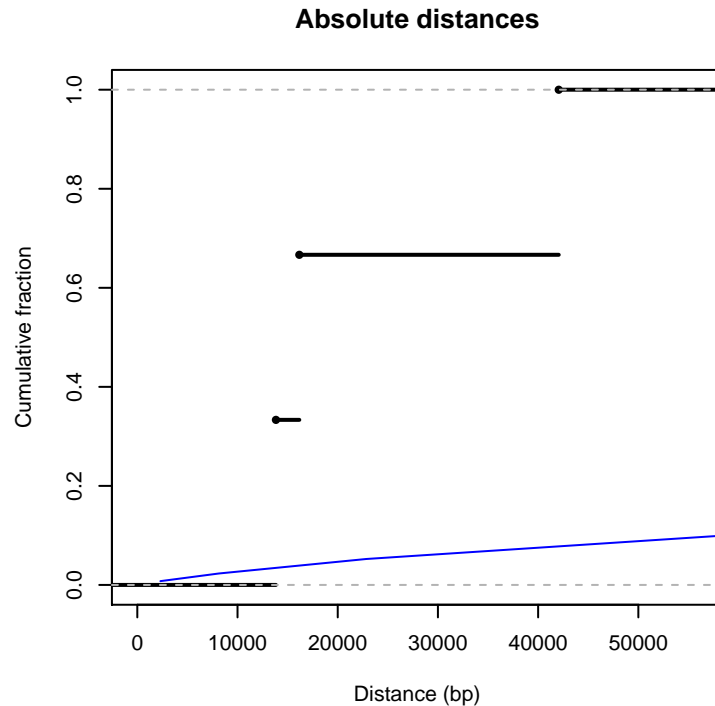
pcontig_084

Query population : 6
Reference population : 3
Relative Ks p-value : 0.0142271
Relative ecdf deviation area : 0.150845
Relative ecdf area correlation : 0.603245
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00830831
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



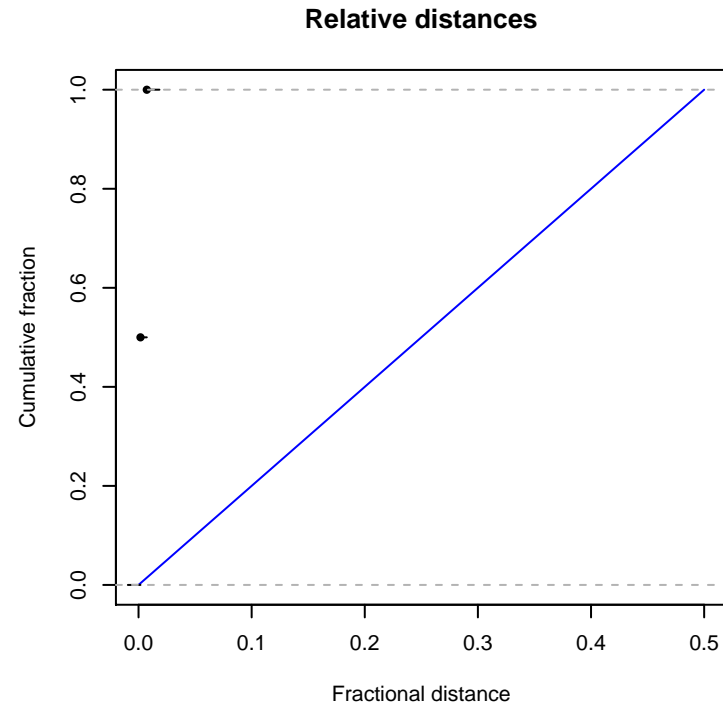
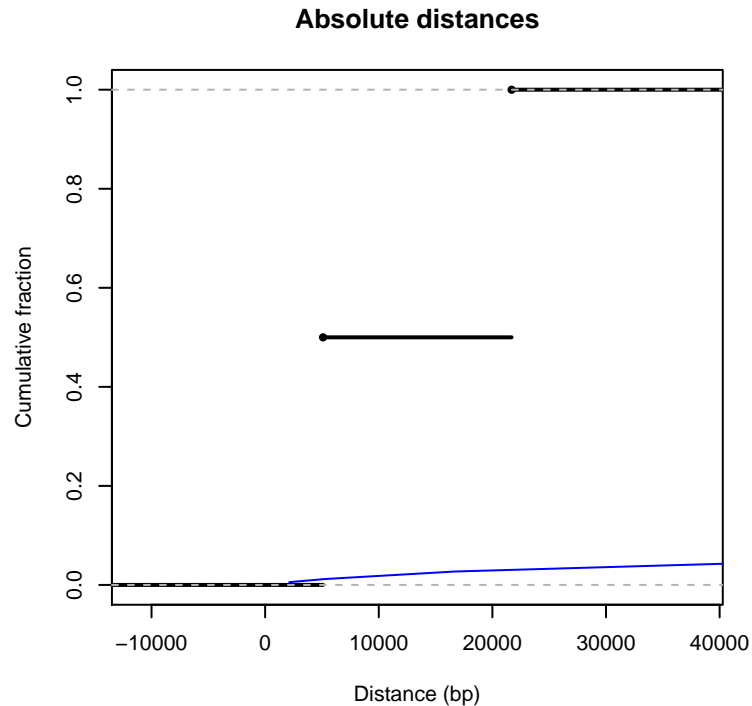
pcontig_086

Query population : 3
Reference population : 5
Relative Ks p-value : 0.820486
Relative ecdf deviation area : 0.0711063
Relative ecdf area correlation : 0.134651
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 : 0.00733625
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



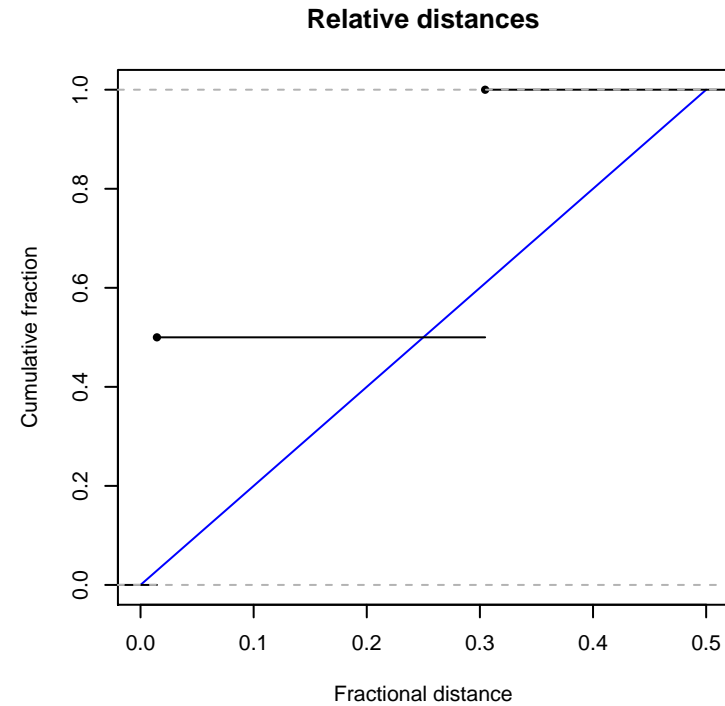
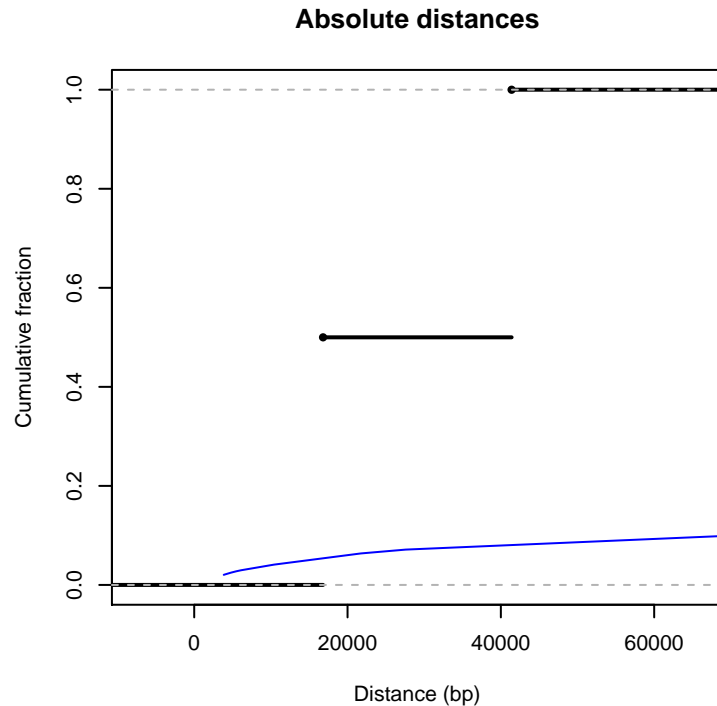
pcontig_087

Query population : 2
Reference population : 4
Relative Ks p-value : 0.000427586
Relative ecdf deviation area : 0.245137
Relative ecdf area correlation : 0.981941
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 : 0.00202127
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



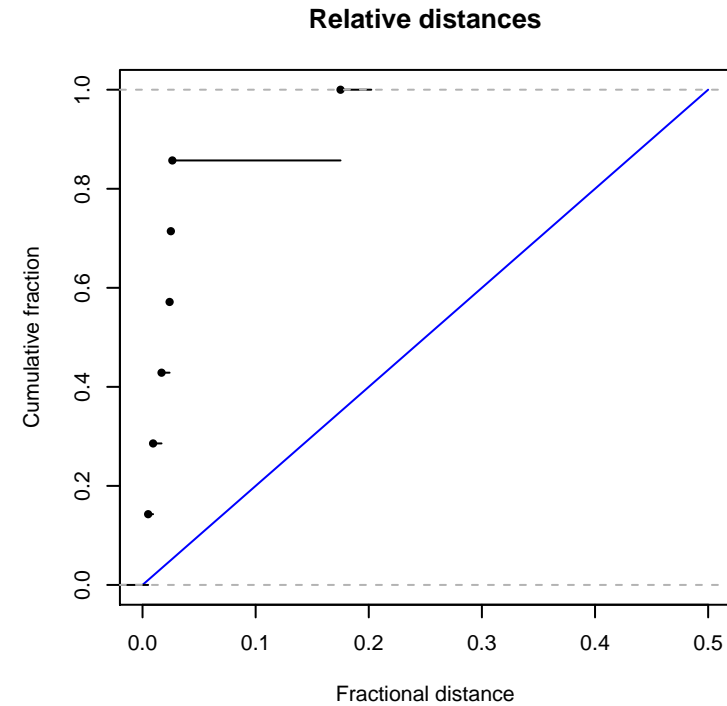
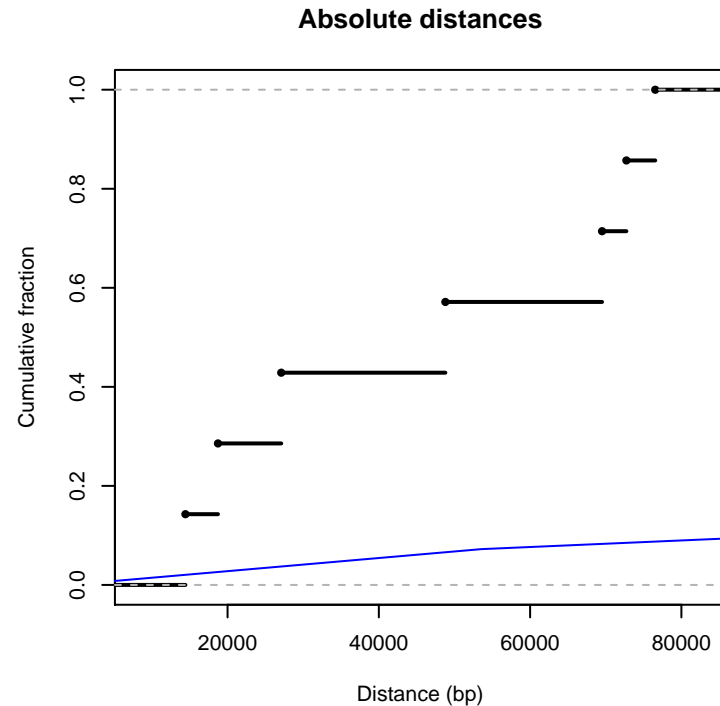
pcontig_088

Query population : 2
Reference population : 8
Relative Ks p-value : 0.609269
Relative ecdf deviation area : 0.0970618
Relative ecdf area correlation : 0.361735
Relative ecdf deviation area p-value : 0.65
Scaled Absolute min. distance p-value : 0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.0153068
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_089

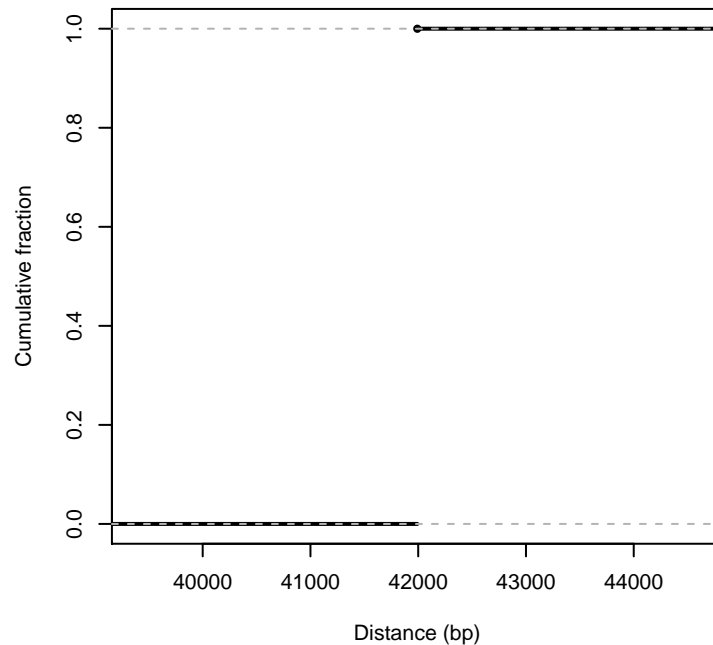
Query population : 7
Reference population : 3
Relative Ks p-value : 2.21221e-05
Relative ecdf deviation area : 0.209983
Relative ecdf area correlation : 0.839169
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00623486
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



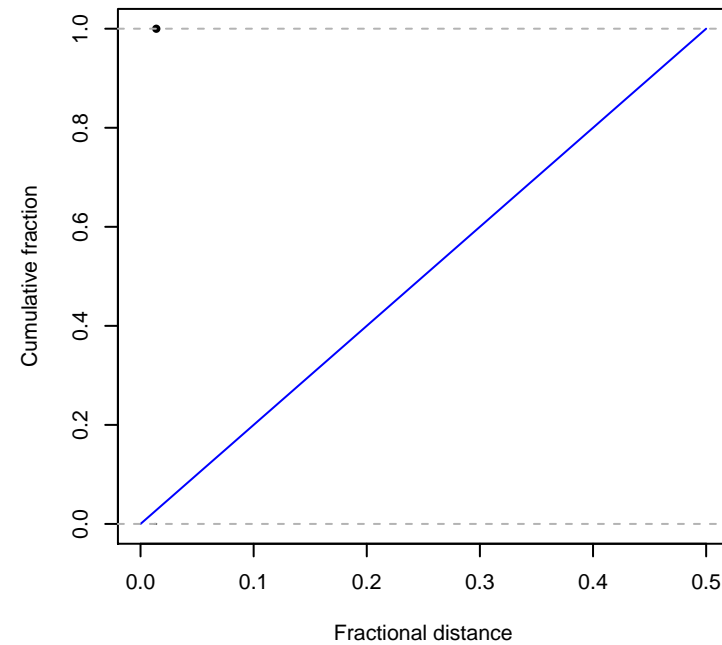
pcontig_090

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 : 0.06000000000000001
Scaled Absolute min. distance p-value : 0.04
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.000150229
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances

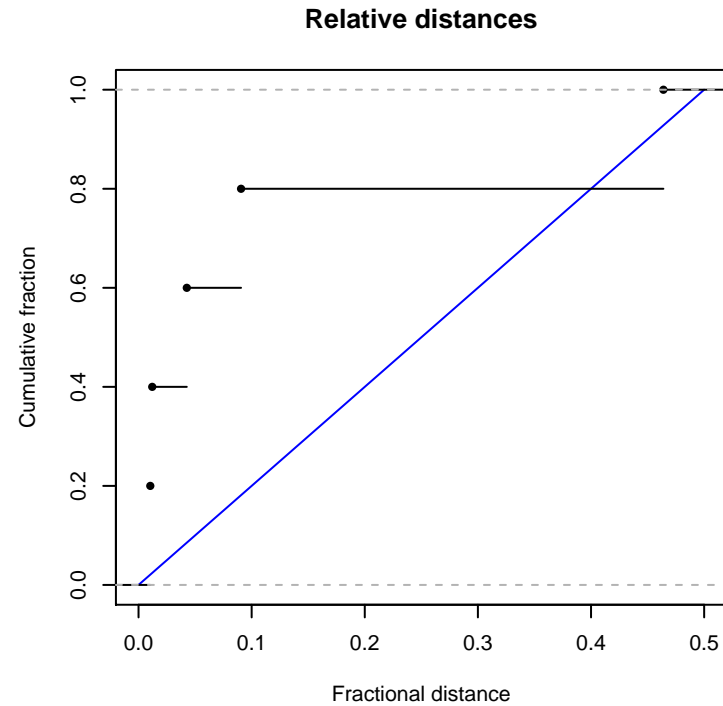
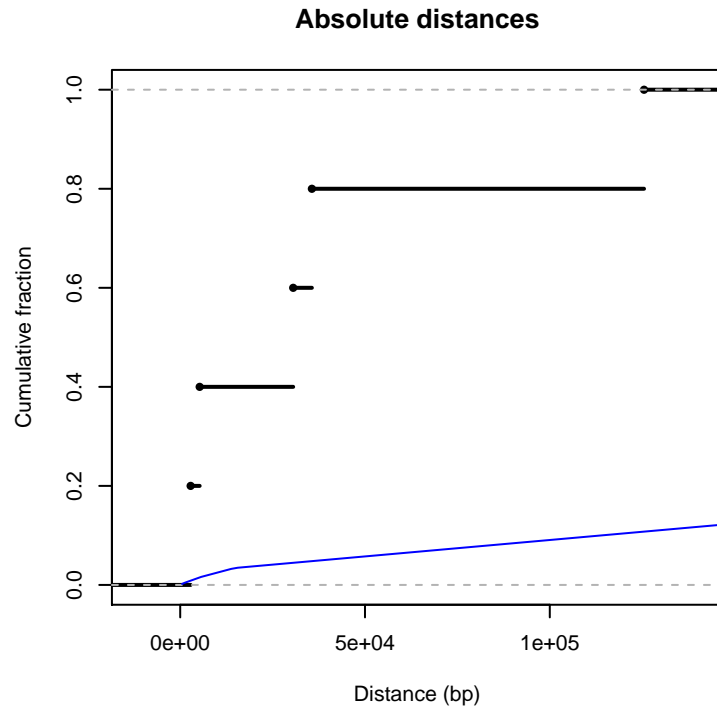


Relative distances



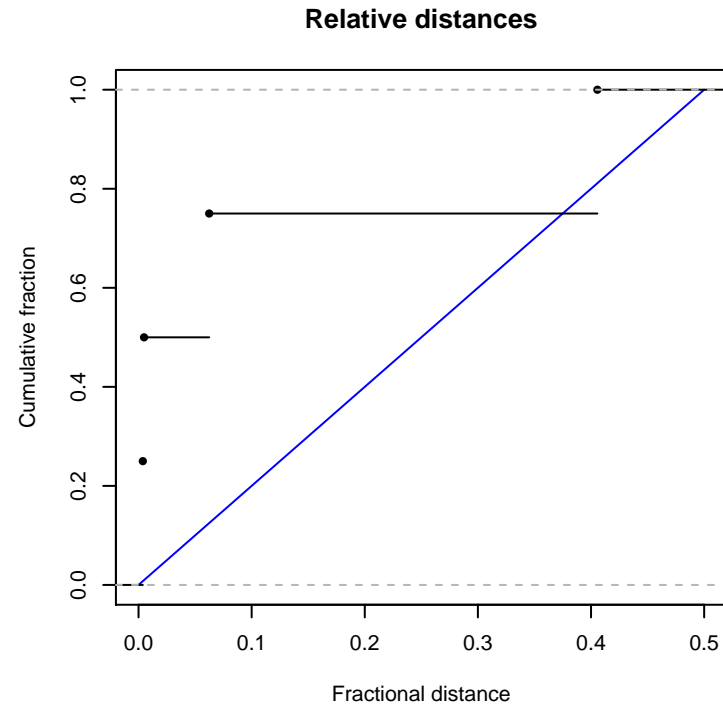
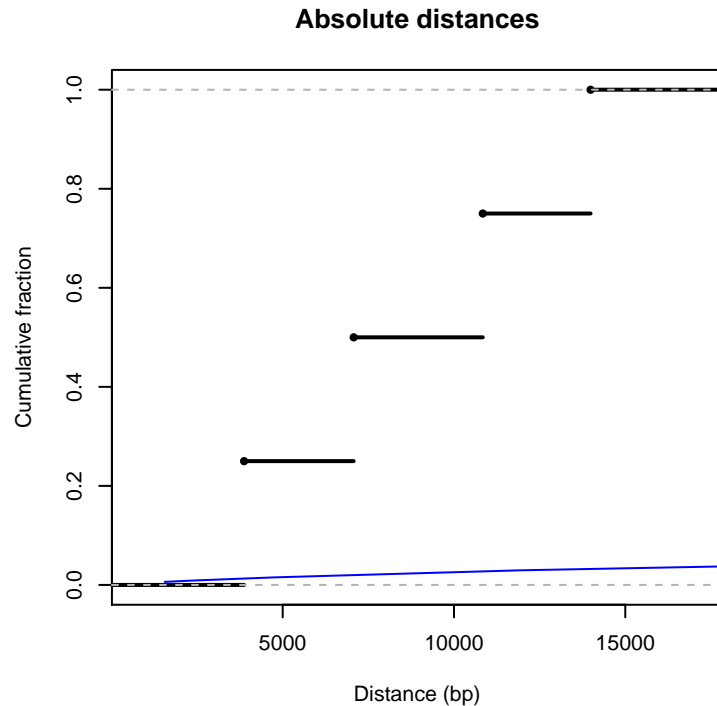
pcontig_091

Query population : 5
Reference population : 6
Relative Ks p-value : 0.022803
Relative ecdf deviation area : 0.13407
Relative ecdf area correlation : 0.50416
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00614985
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



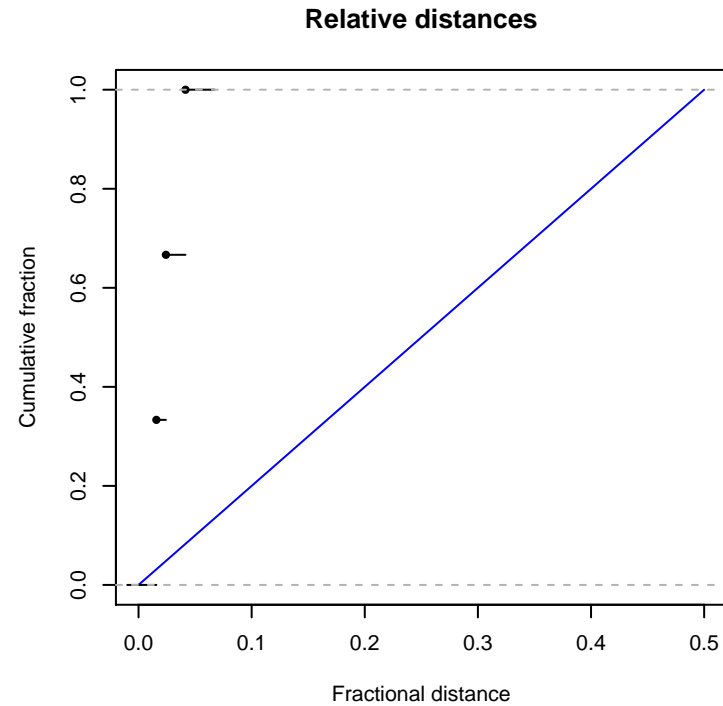
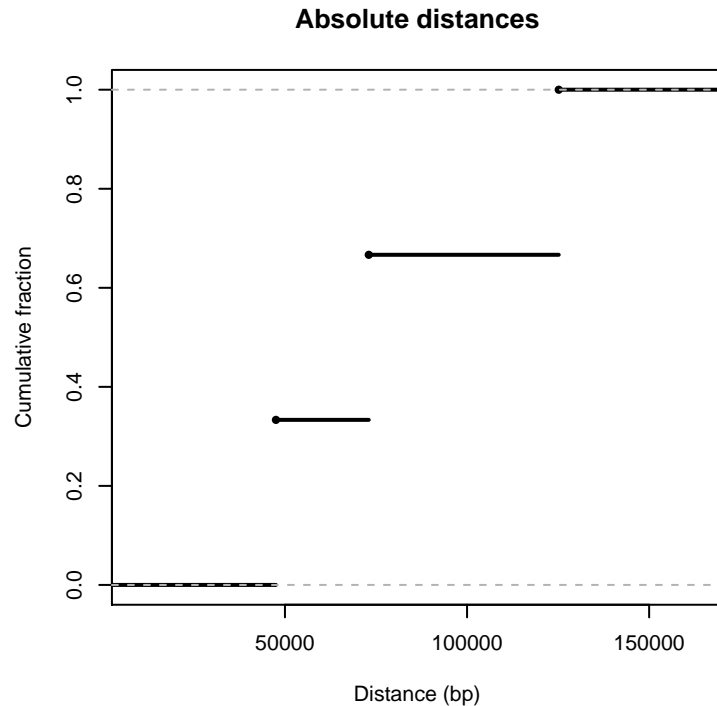
pcontig_092

Query population : 4
Reference population : 6
Relative Ks p-value : 0.0492722
Relative ecdf deviation area : 0.132639
Relative ecdf area correlation : 0.523233
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 : 0.04
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00972491
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



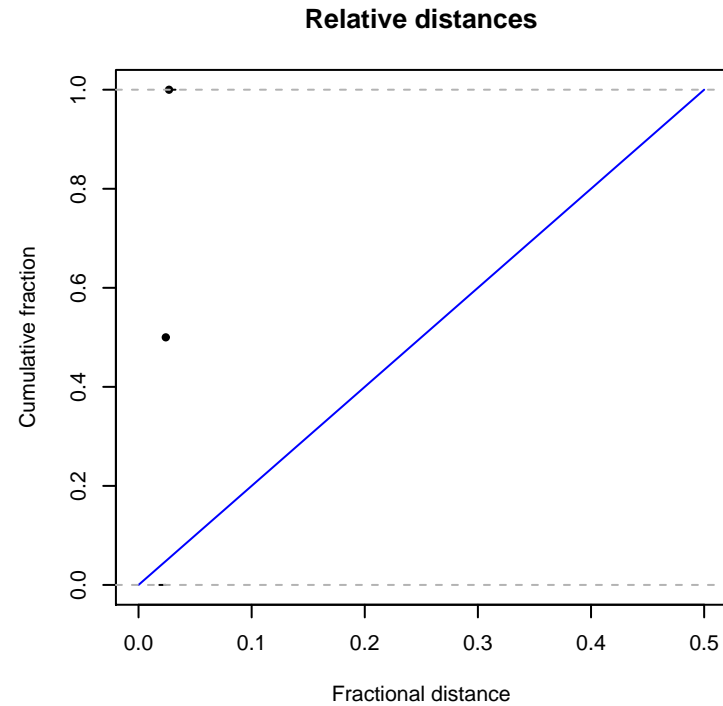
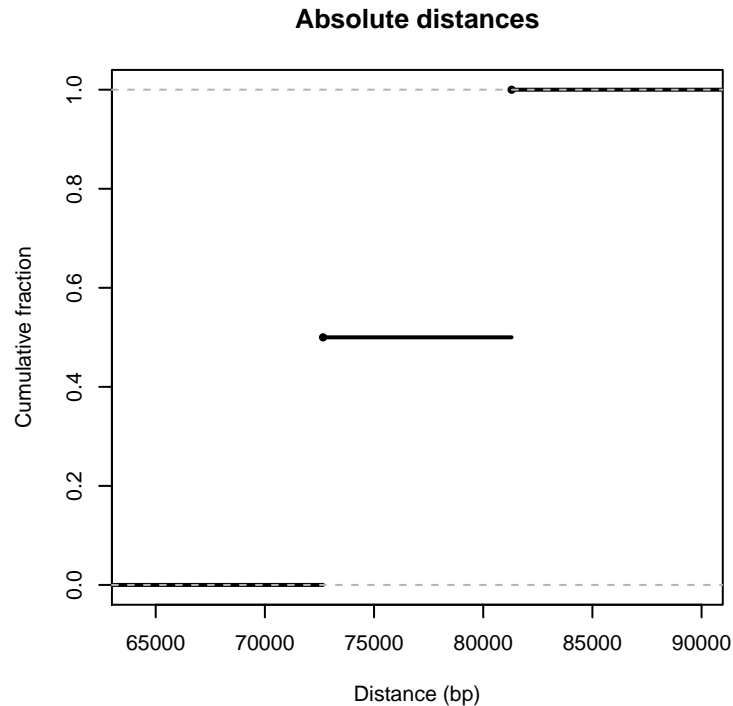
pcontig_095

Query population : 3
Reference population : 1
Relative Ks p-value : 0.00114465
Relative ecdf deviation area : 0.223431
Relative ecdf area correlation : 0.891351
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 : 0.00146476
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



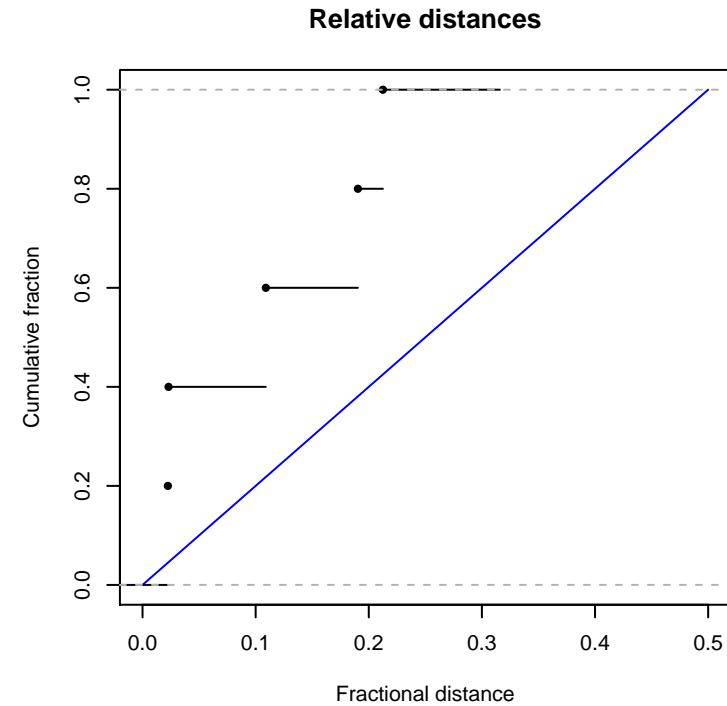
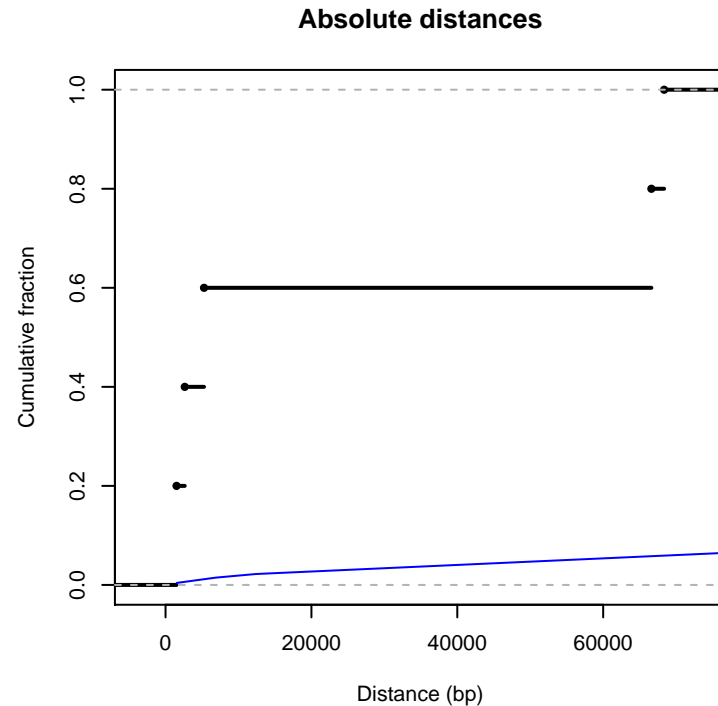
pcontig_097

Query population : 2
Reference population : 1
Relative Ks p-value : 0.00581552
Relative ecdf deviation area : 0.225842
Relative ecdf area correlation : 0.89788
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 : 0.000256666
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



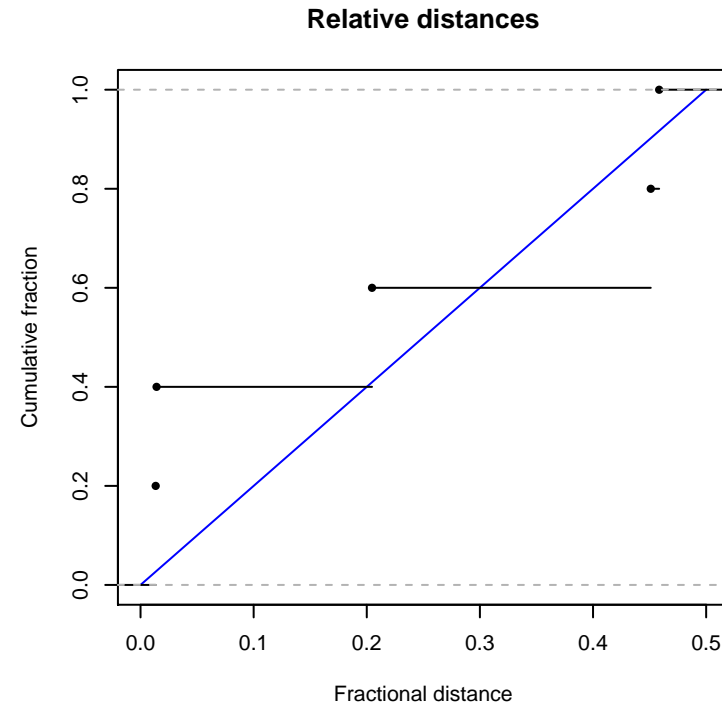
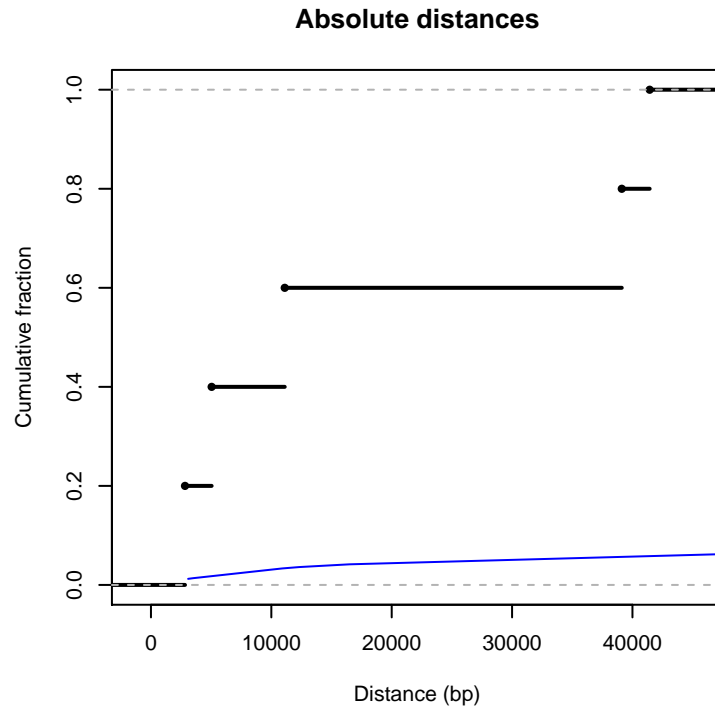
pcontig_100

Query population : 5
Reference population : 4
Relative Ks p-value : 0.0426155
Relative ecdf deviation area : 0.139231
Relative ecdf area correlation : 0.554218
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 : 0.00743123
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



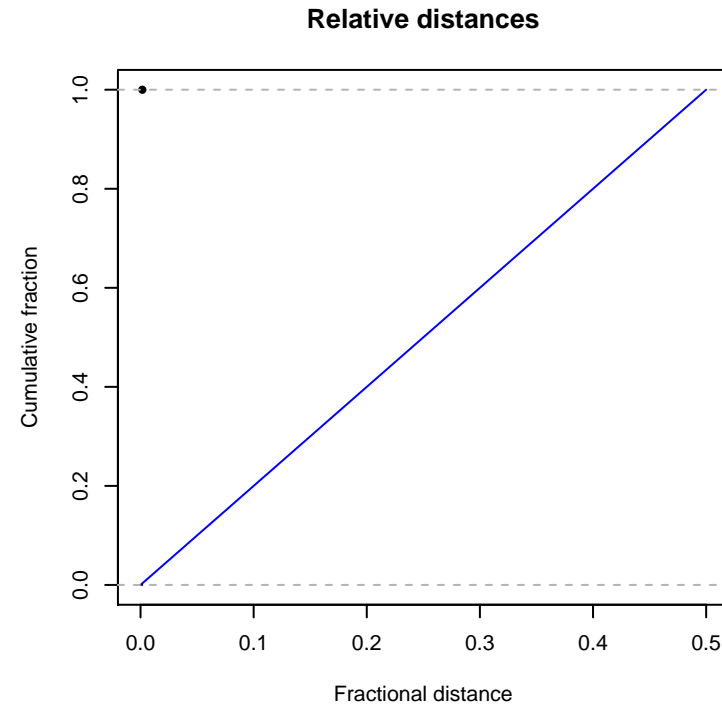
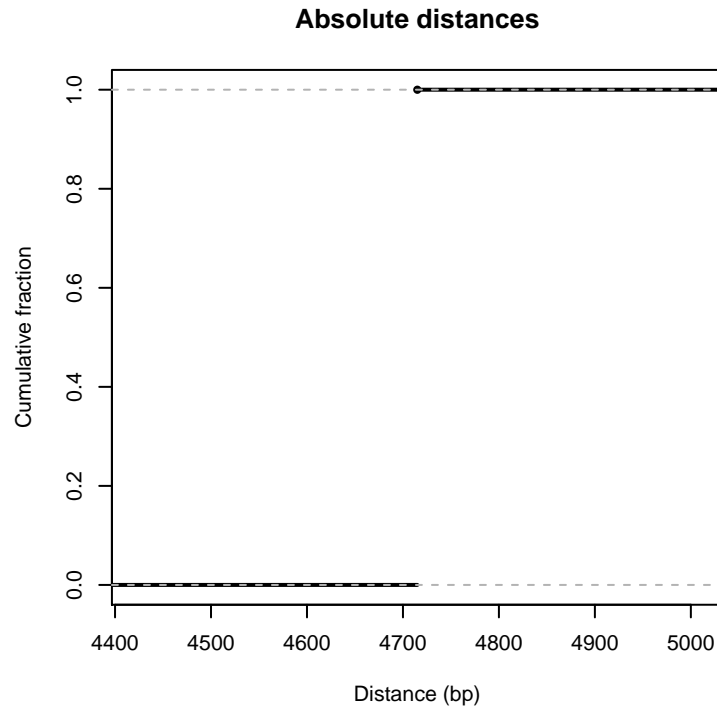
pcontig_103

Query population : 5
Reference population : 6
Relative Ks p-value : 0.393602
Relative ecdf deviation area : 0.0697463
Relative ecdf area correlation : 0.0866422
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 : 0.08
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00794375
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



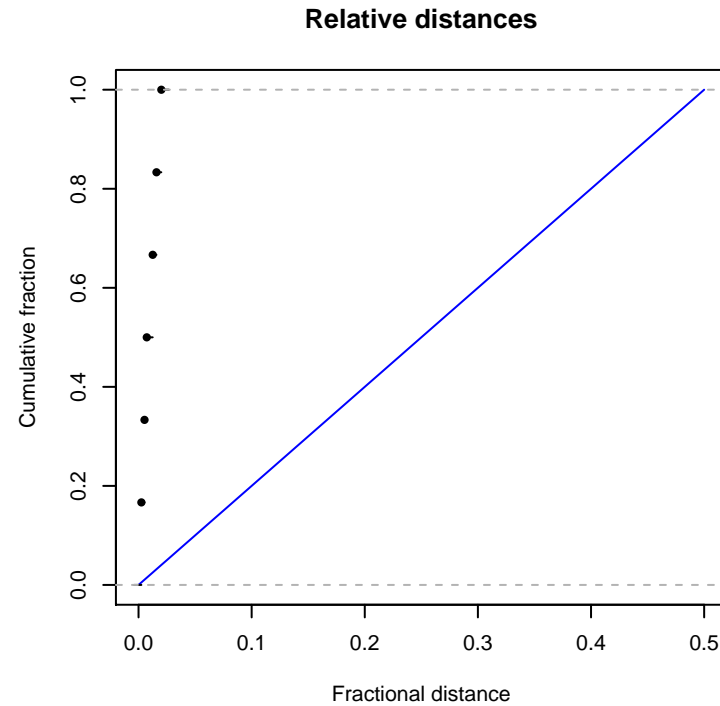
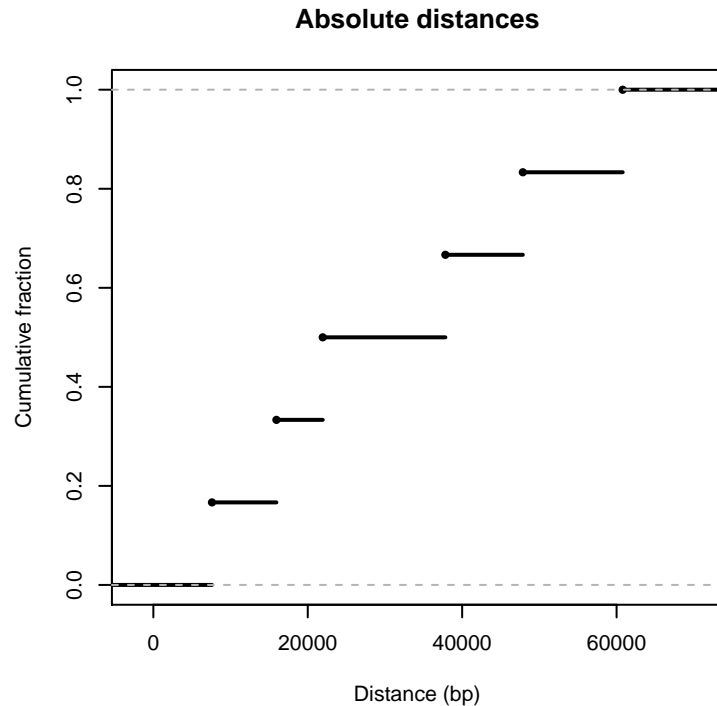
pcontig_104

Query population : 1
Reference population : 2
Relative Ks p-value : 0.00634367
Relative ecdf deviation area : 0.24927
Relative ecdf area correlation : 0.993656
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 : 0.000462626
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



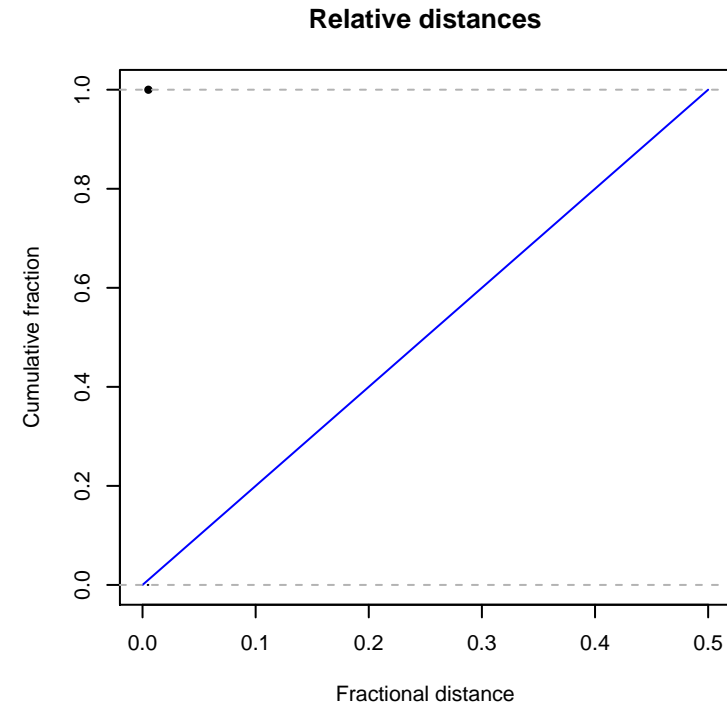
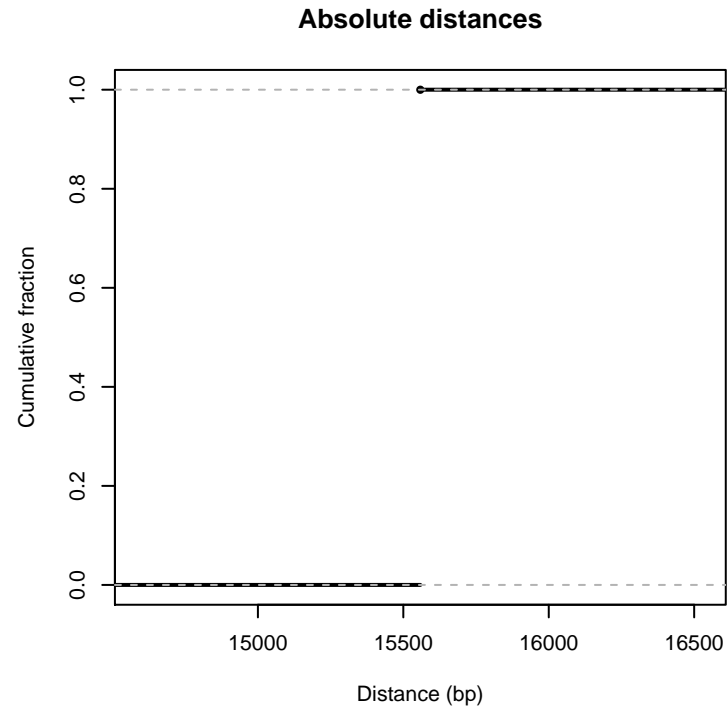
pcontig_106

Query population : 6
Reference population : 1
Relative Ks p-value : 8.59499e-09
Relative ecdf deviation area : 0.239271
Relative ecdf area correlation : 0.957562
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 : 0.00484131
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



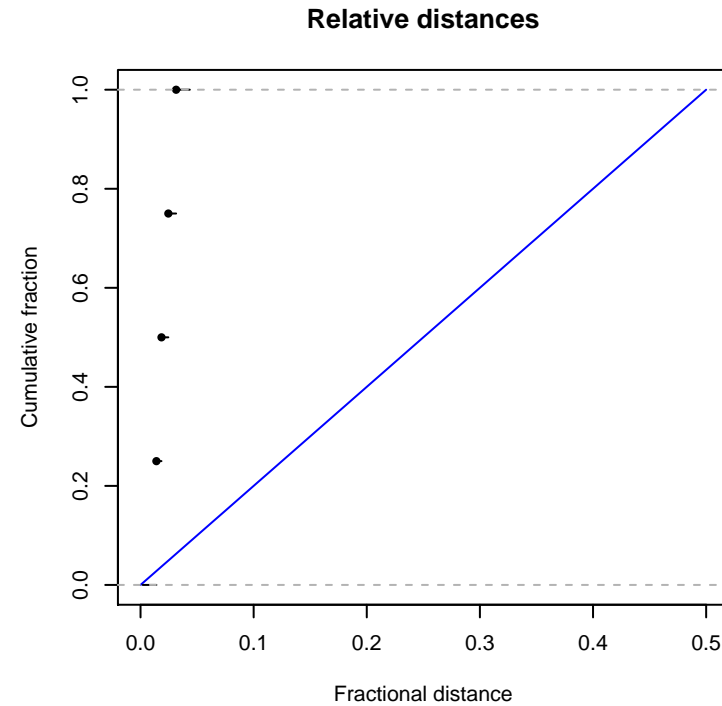
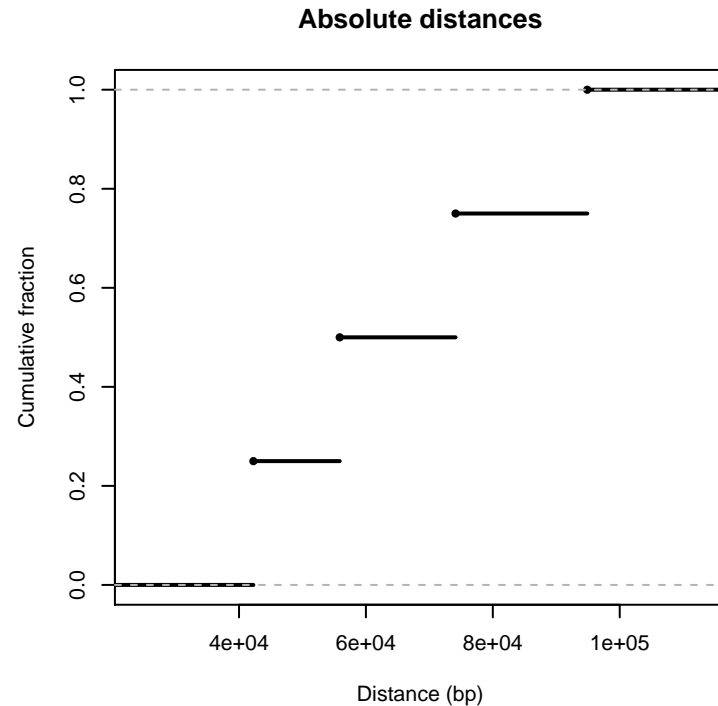
pcontig_112

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 : 0.01
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 : 0.000118724
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



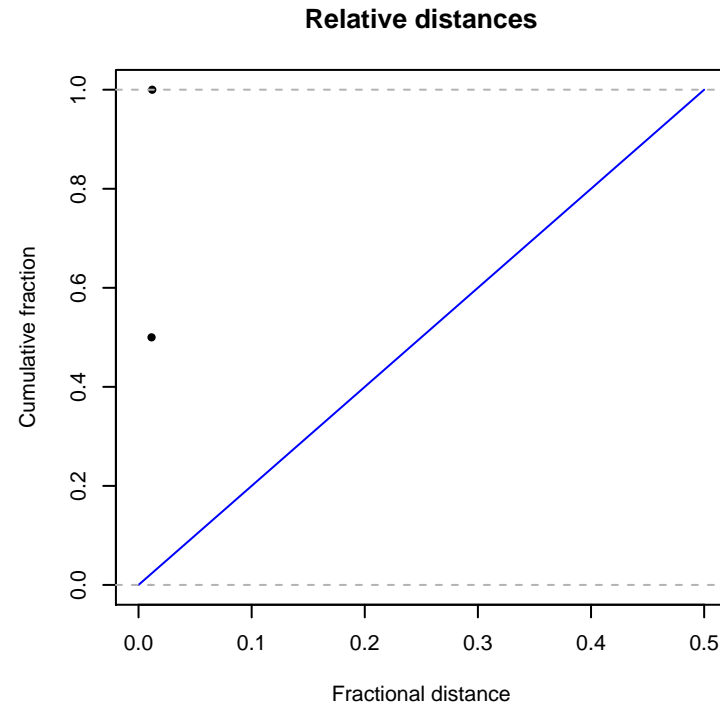
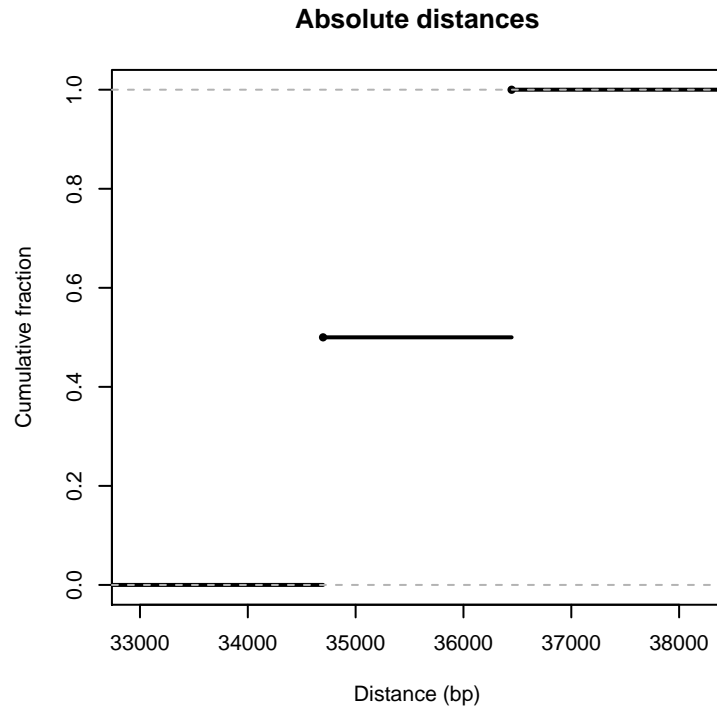
pcontig_115

Query population : 4
Reference population : 1
Relative Ks p-value : 3.13782e-05
Relative ecdf deviation area : 0.227828
Relative ecdf area correlation : 0.911403
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 : 0.00194989
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



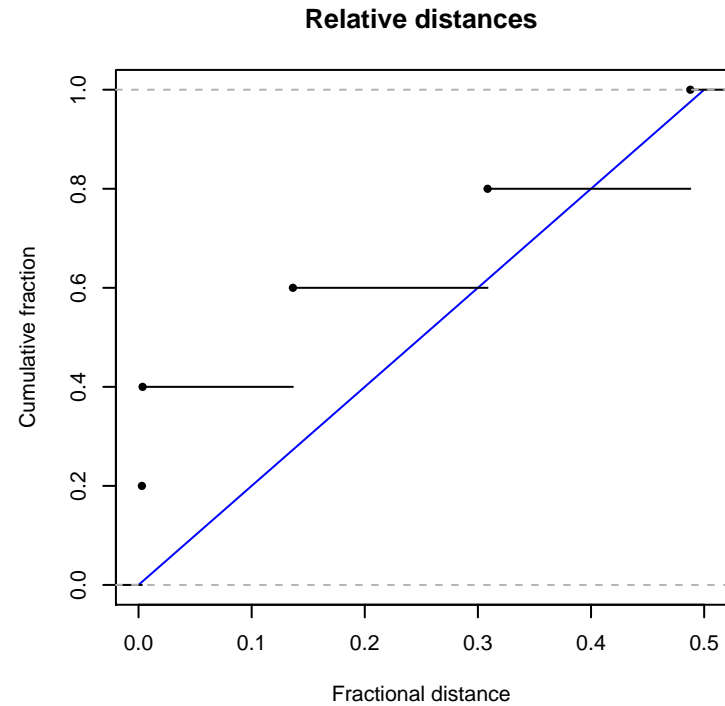
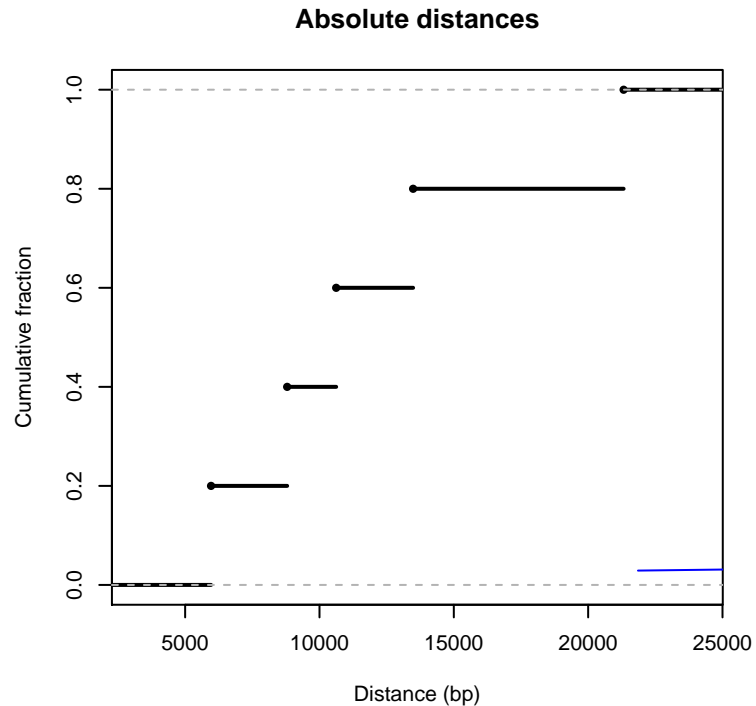
pcontig_120

Query population : 2
Reference population : 1
Relative Ks p-value : 0.00116873
Relative ecdf deviation area : 0.238556
Relative ecdf area correlation : 0.952812
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 : 0.000527225
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



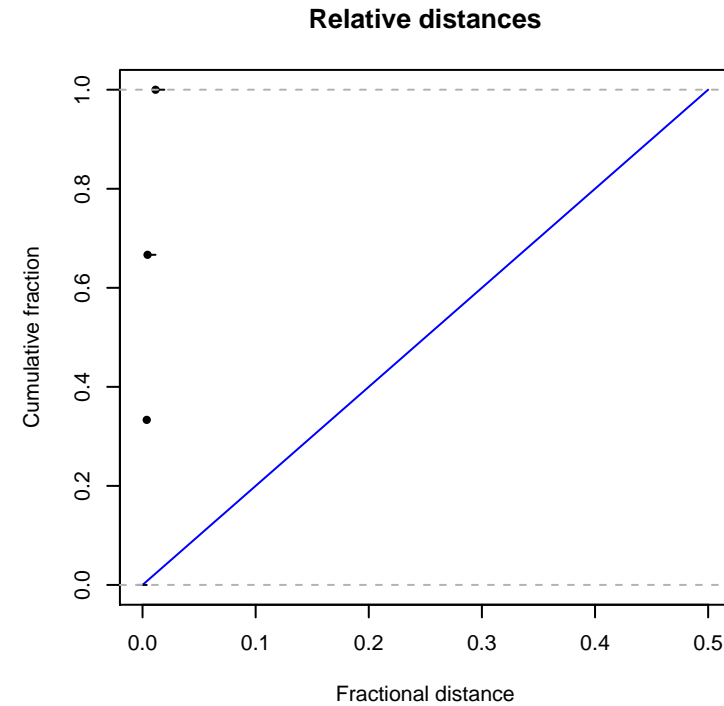
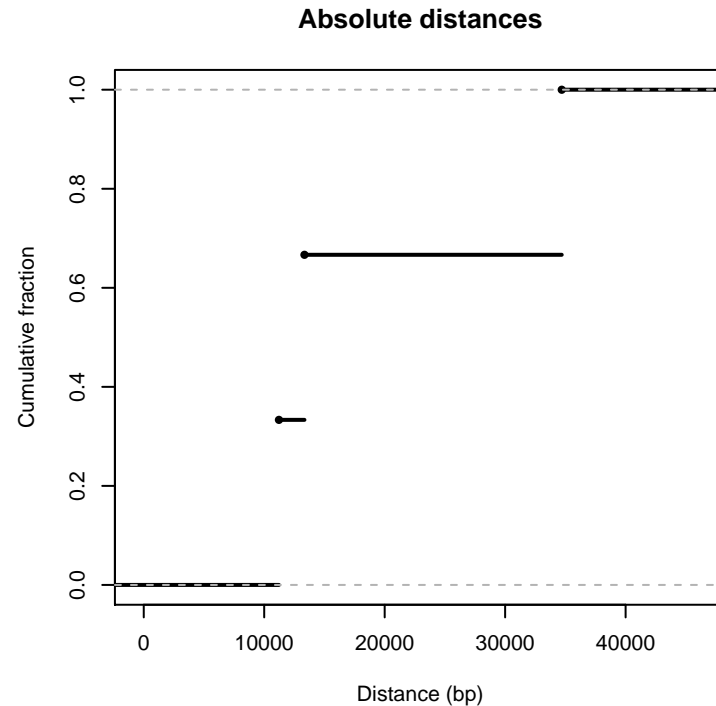
pcontig_130

Query population : 5
Reference population : 2
Relative Ks p-value : 0.32827
Relative ecdf deviation area : 0.0773691
Relative ecdf area correlation : 0.24853
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 : 0.02
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00304729
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



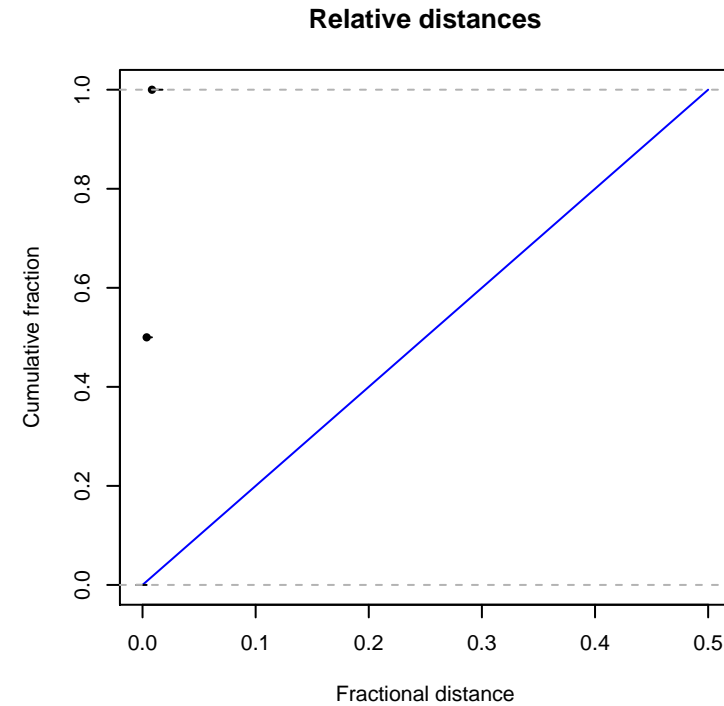
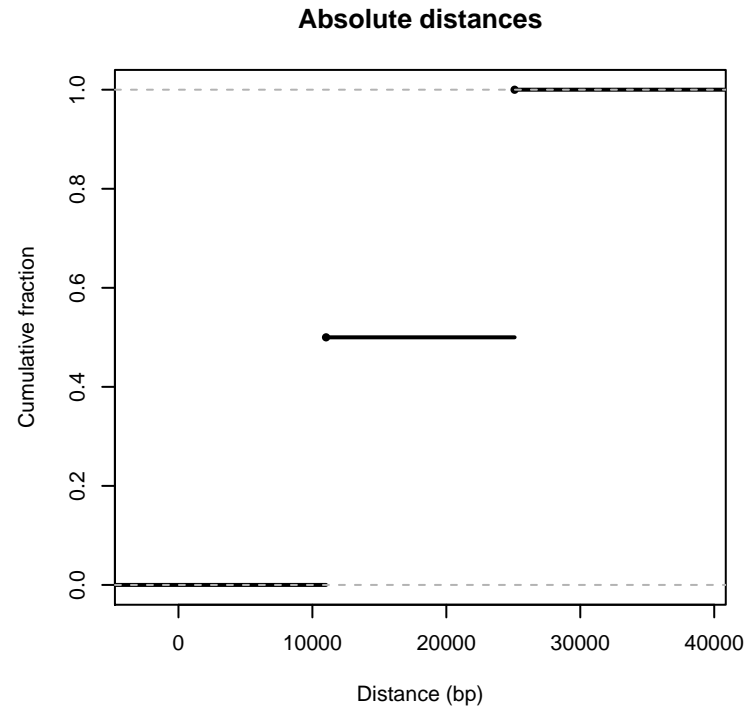
pcontig_138

Query population : 3
Reference population : 1
Relative Ks p-value : 2.43803e-05
Relative ecdf deviation area : 0.244376
Relative ecdf area correlation : 0.973795
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 : 0.00190103
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



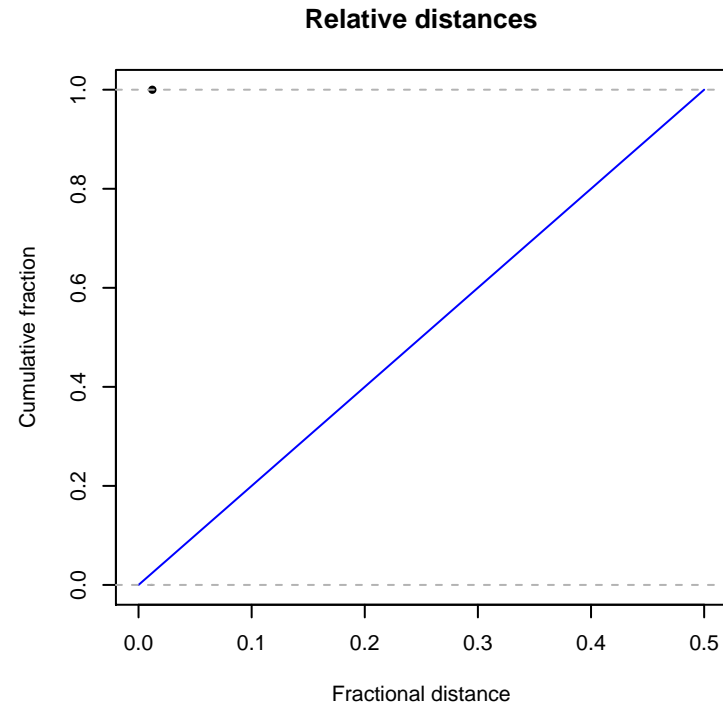
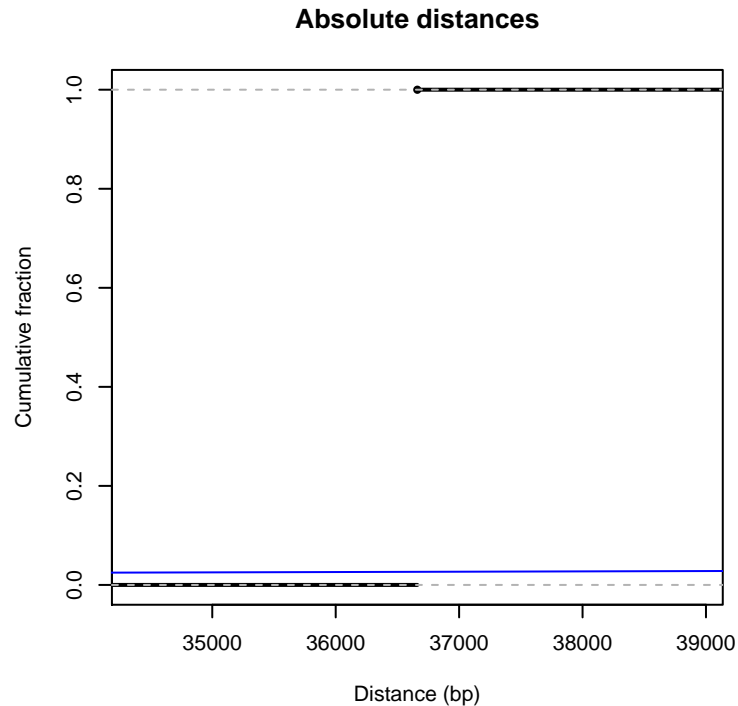
pcontig_147

Query population : 2
Reference population : 1
Relative Ks p-value : 0.000554195
Relative ecdf deviation area : 0.244297
Relative ecdf area correlation : 0.976044
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 : 0.000193663
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



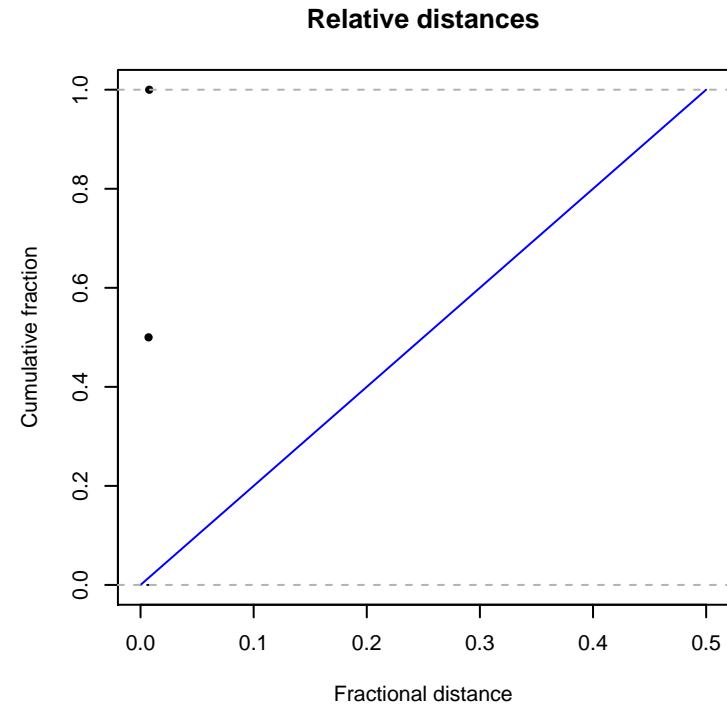
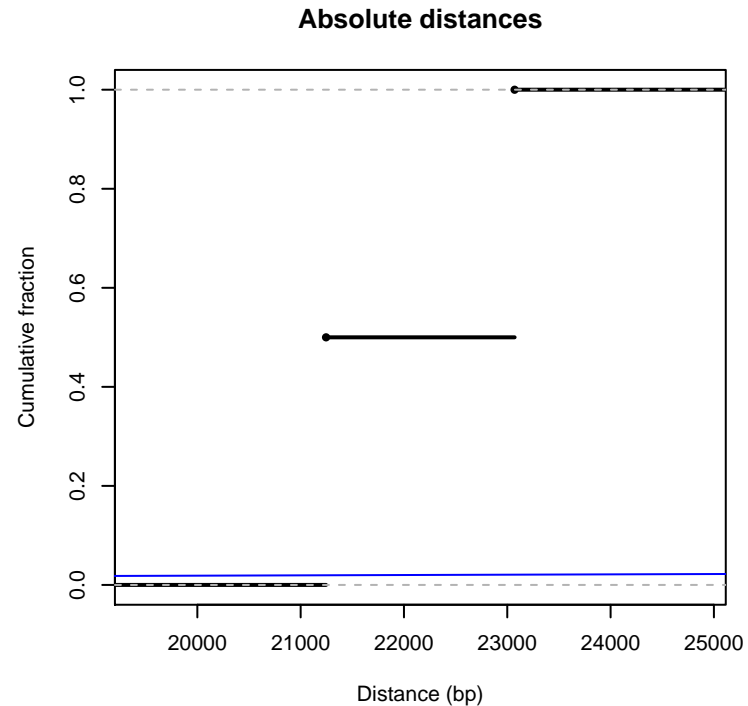
pcontig_148

Query population : 1
Reference population : 2
Relative Ks p-value : 0.0487376
Relative ecdf deviation area : 0.238556
Relative ecdf area correlation : 0.951262
Relative ecdf deviation area p-value : 0.06000000000000001
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : 0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00058732
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



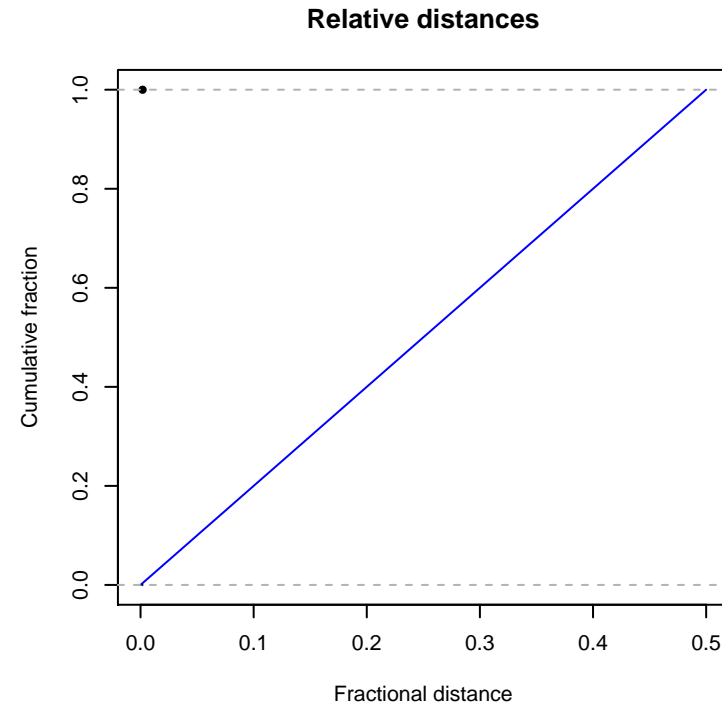
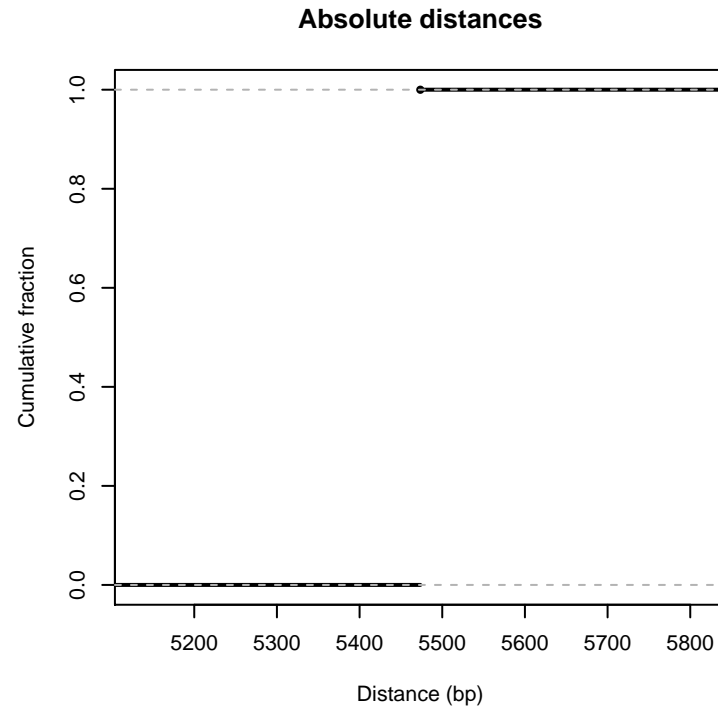
pcontig_157

Query population : 2
Reference population : 3
Relative Ks p-value : 0.000473425
Relative ecdf deviation area : 0.242876
Relative ecdf area correlation : 0.970446
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 : 0.00107552
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



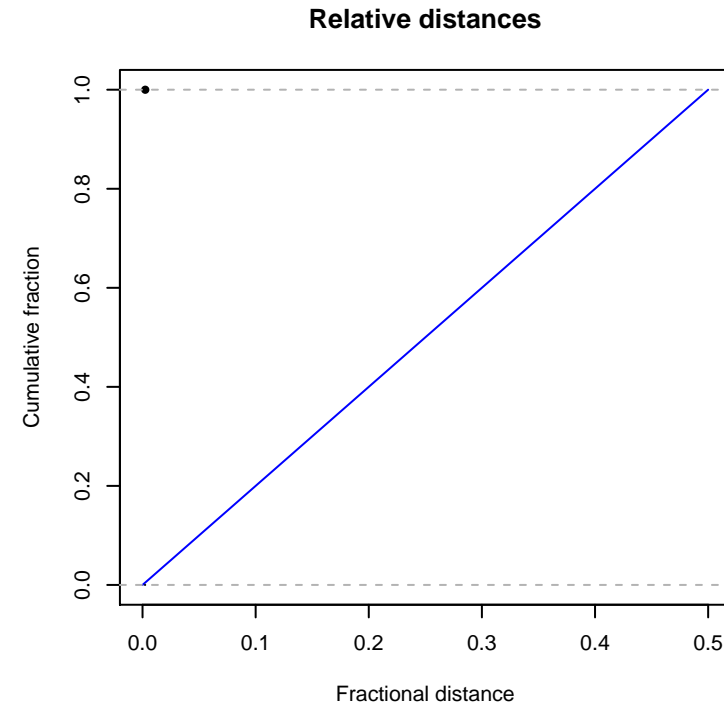
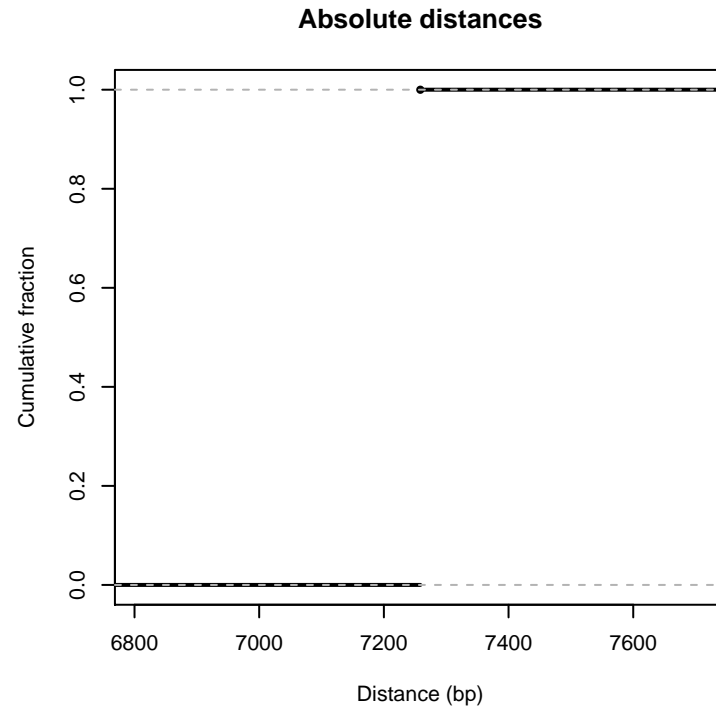
pcontig_174

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 : 0.000241759
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



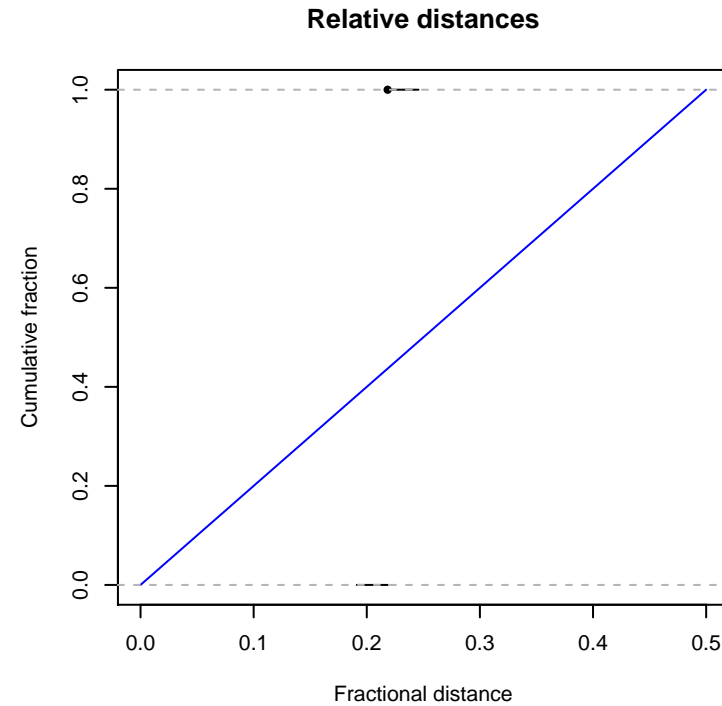
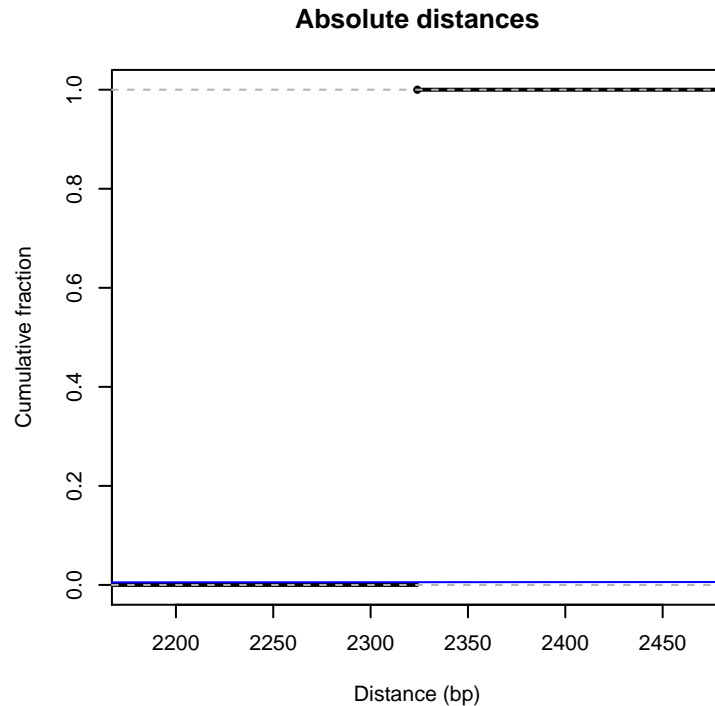
pcontig_181

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 : 0.000352524
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



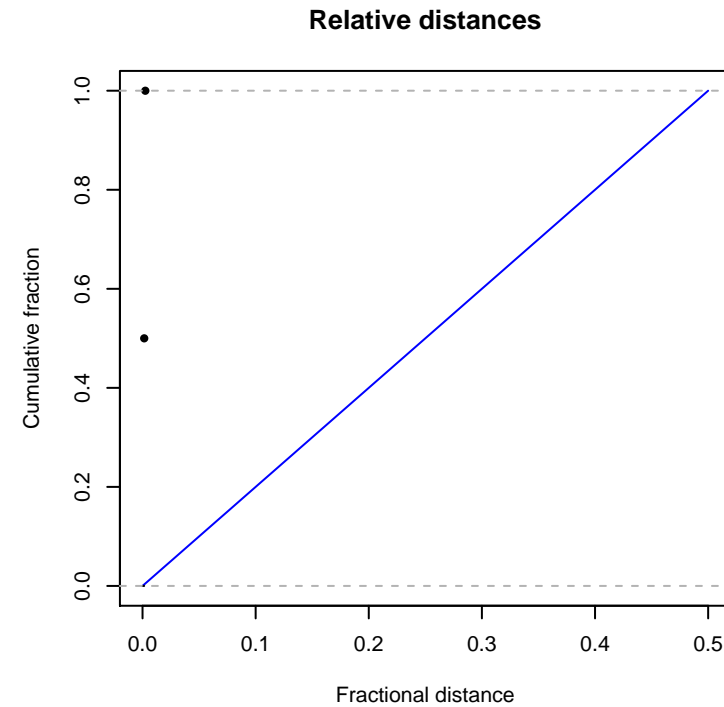
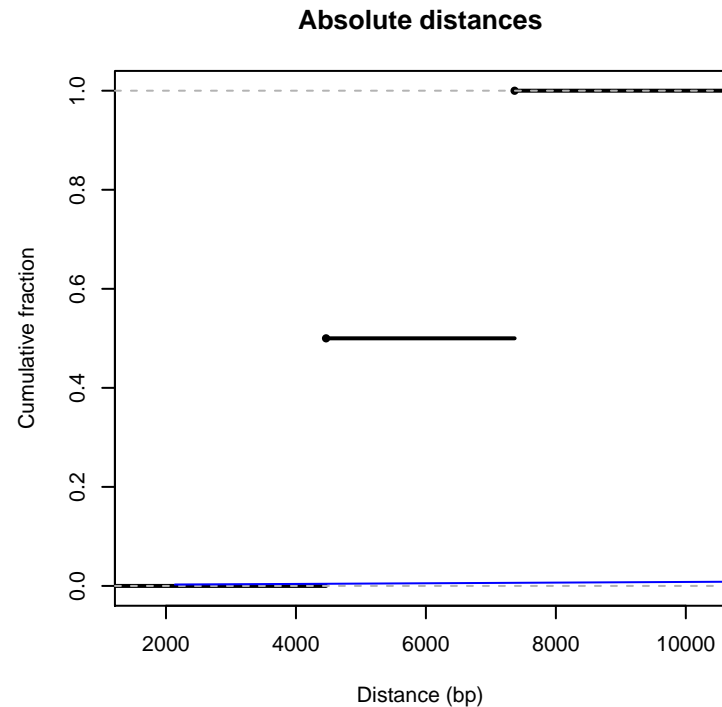
pcontig_186

Query population : 1
Reference population : 4
Relative Ks p-value : 0.873766
Relative ecdf deviation area : 0.126943
Relative ecdf area correlation : 0.126234
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 : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00109803
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



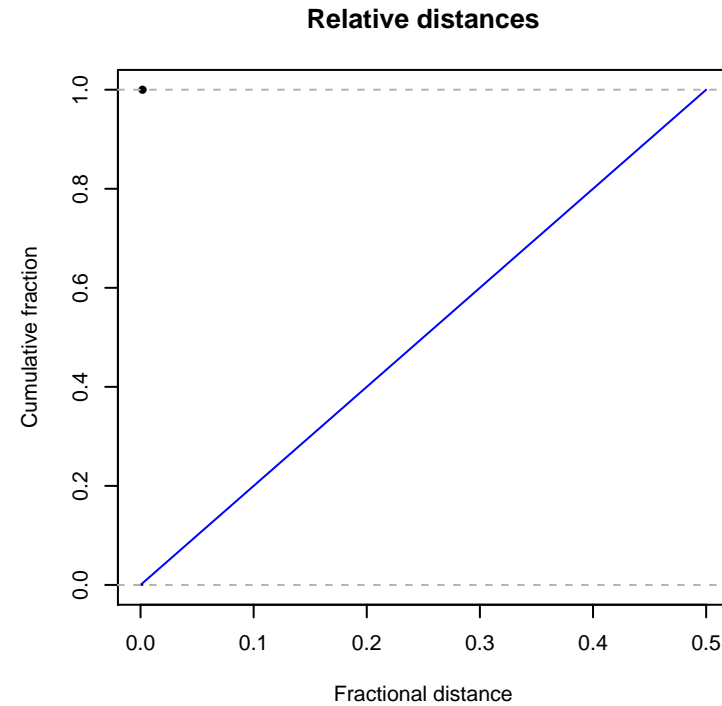
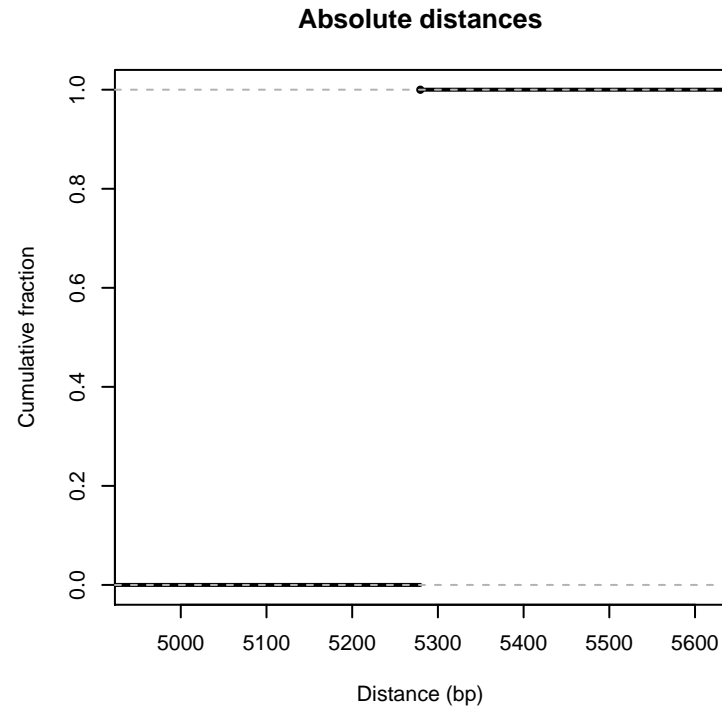
pcontig_188

Query population : 2
Reference population : 2
Relative Ks p-value : 4.78607e-05
Relative ecdf deviation area : 0.248252
Relative ecdf area correlation : 0.992143
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 : 0.000619392
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



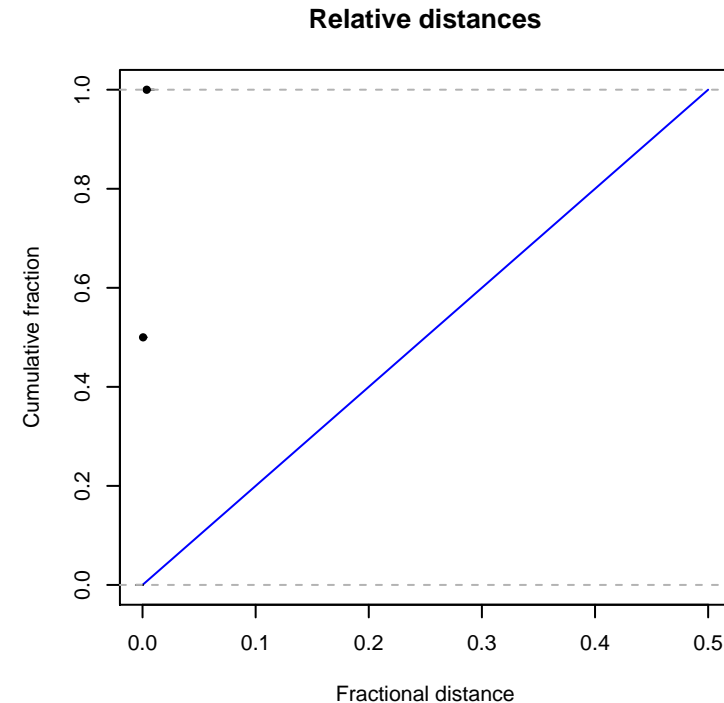
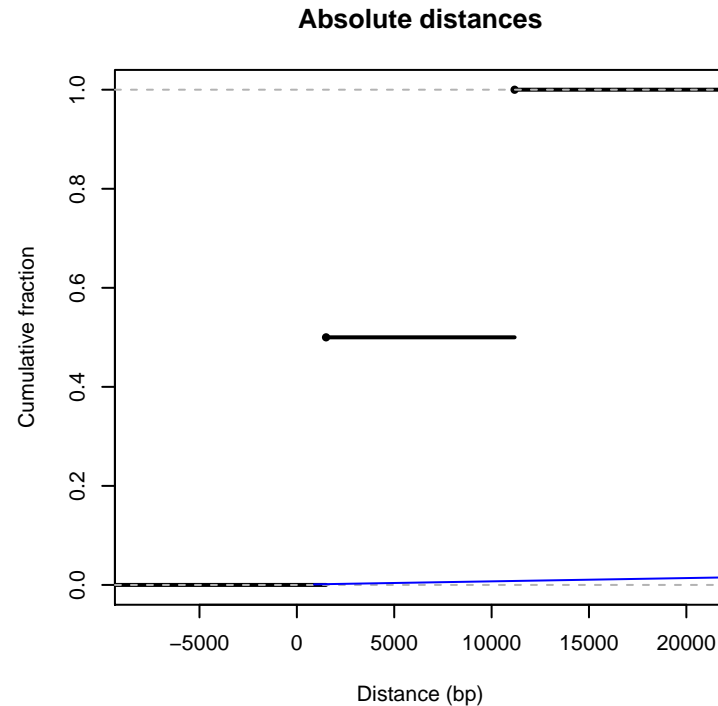
pcontig_189

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 : 0.000272601
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



pcontig_203

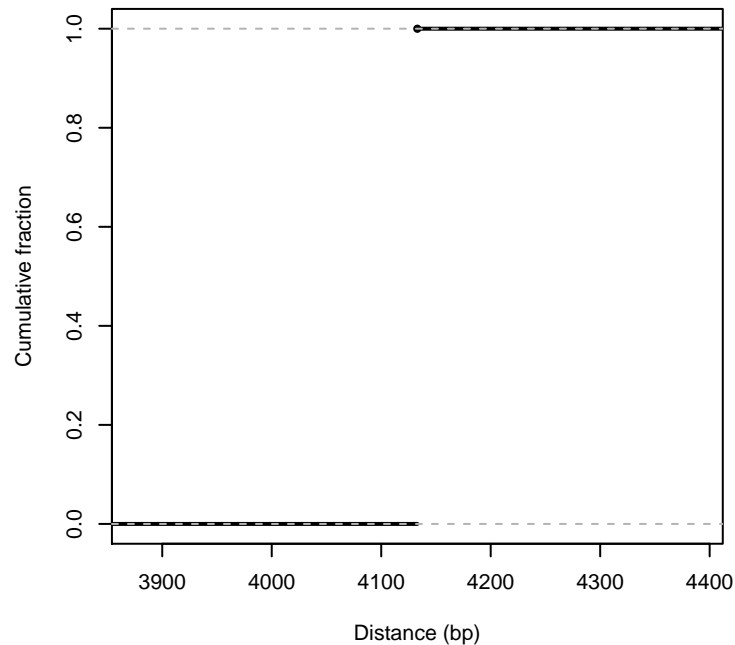
Query population : 2
Reference population : 2
Relative Ks p-value : 0.000110131
Relative ecdf deviation area : 0.248252
Relative ecdf area correlation : 0.991584
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : FALSE
Projection test p-value : 0.00114049
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0



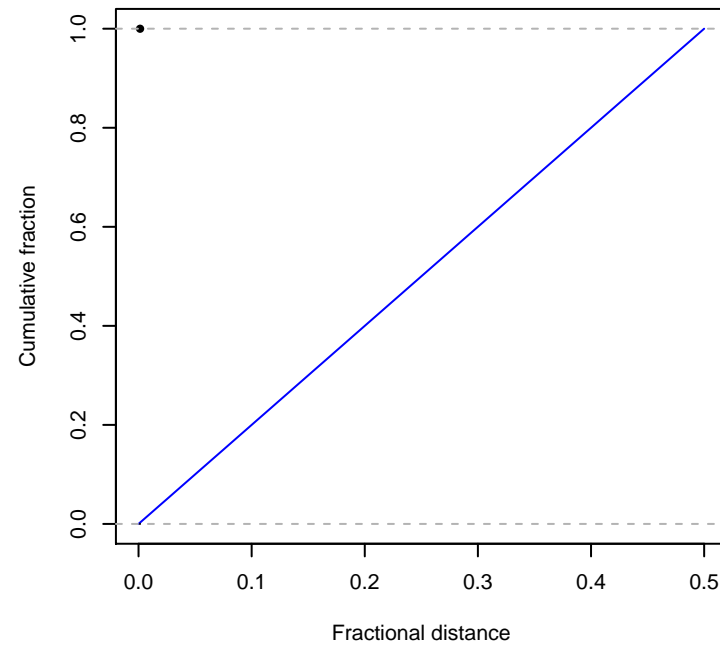
pcontig_233

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 : 0.000197984
Projection test lower tail : FALSE
Projection test observed to expected ratio : 0

Absolute distances



Relative distances



All Chromosomes

Query population : 1432
Reference population : 1559
Relative Ks p-value : 0
Relative ecdf deviation area : 0.0350633
Relative ecdf area correlation : 0.139198
Relative ecdf deviation area p-value : <0.01
Scaled Absolute min. distance p-value : <0.01
Scaled Absolute min. lower tail : TRUE
Jaccard Measure p-value : <0.01
Jaccard Measure lower tail : TRUE
Projection test p-value : 0.000491132
Projection test lower tail : TRUE
Projection test observed to expected ratio : 0

