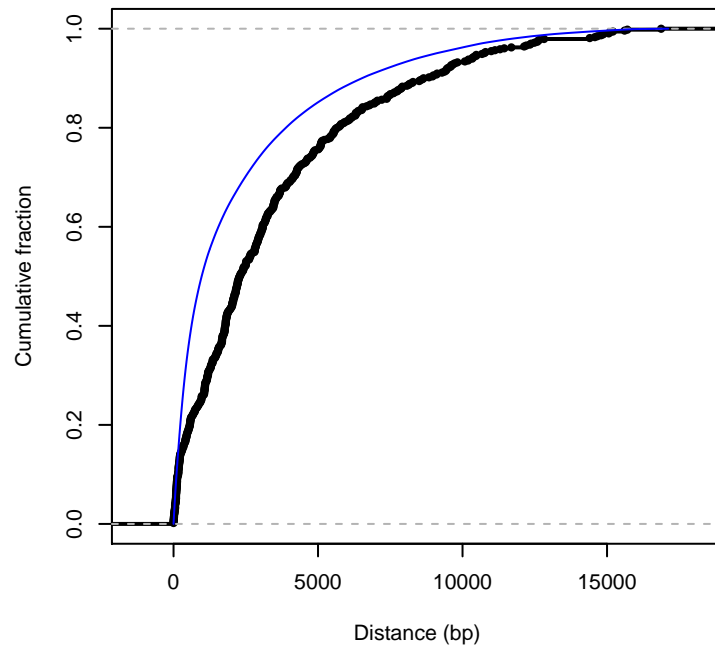


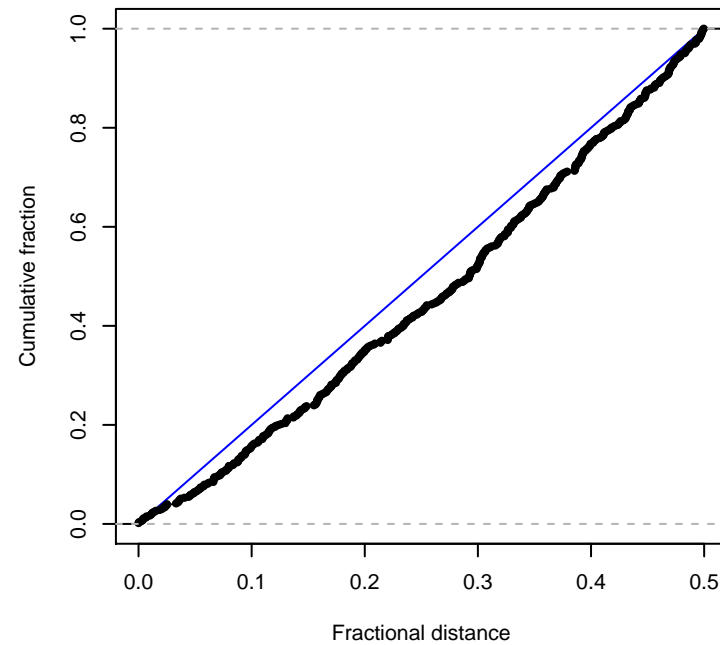
# pcontig\_000

Query population : 530  
Reference population : 1836  
Relative Ks p-value : 0.00041249  
Relative ecdf deviation area : 0.0238052  
Relative ecdf area correlation : -0.0959519  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : FALSE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 1.04374e-13  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.624362

Absolute distances

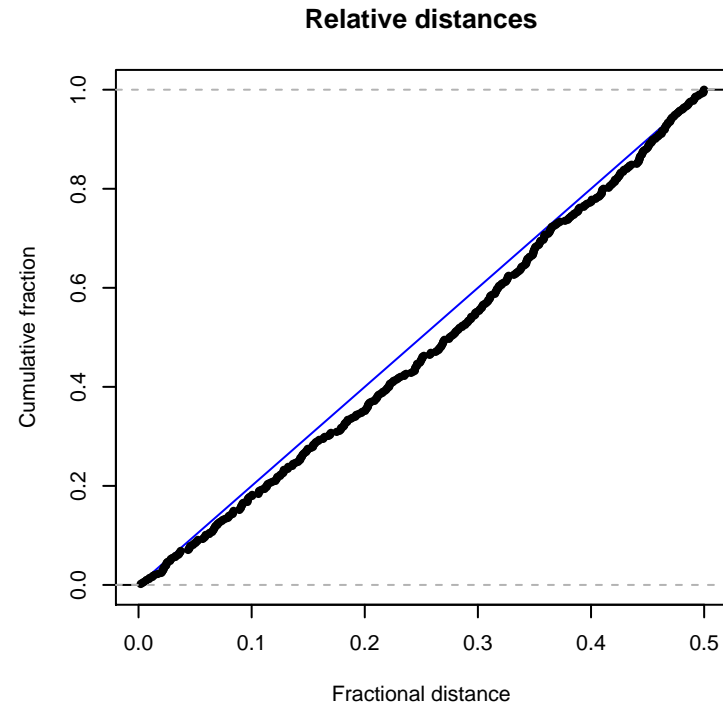
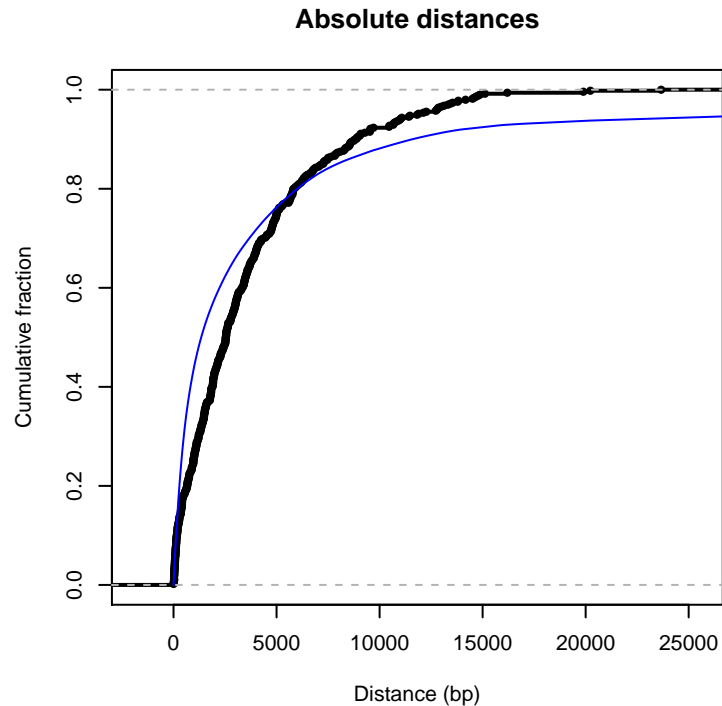


Relative distances



# pcontig\_001

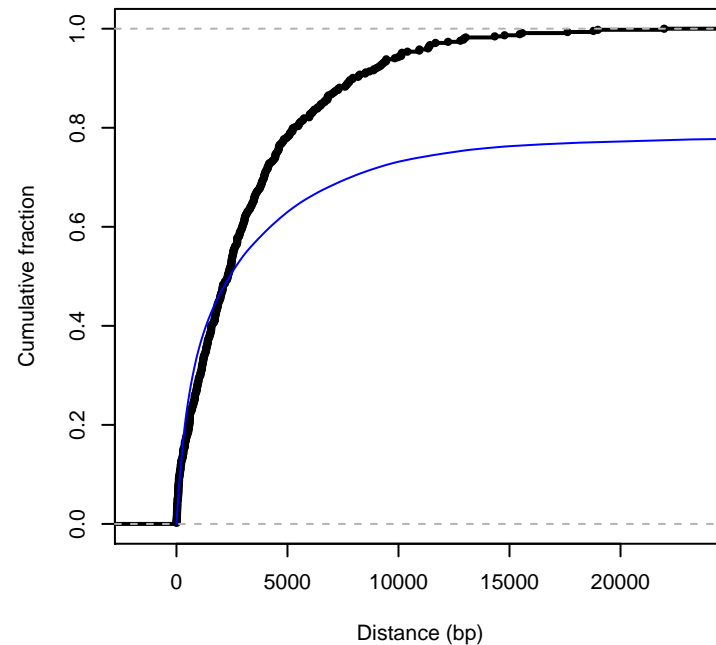
Query population : 495  
Reference population : 1560  
Relative Ks p-value : 0.0713238  
Relative ecdf deviation area : 0.0141086  
Relative ecdf area correlation : -0.0564279  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 5.35494e-10  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.634457



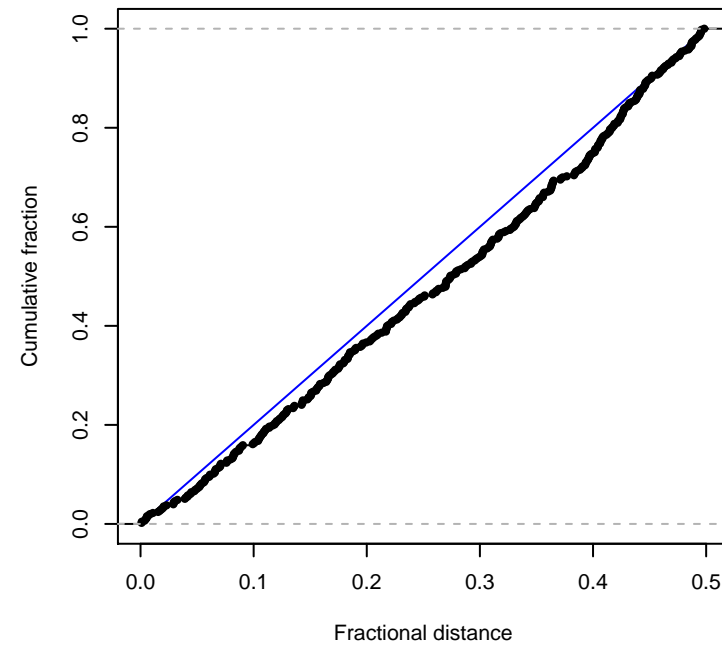
# pcontig\_002

Query population : 453  
Reference population : 1204  
Relative Ks p-value : 0.0472145  
Relative ecdf deviation area : 0.0171767  
Relative ecdf area correlation : -0.0691142  
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 : TRUE  
Projection test p-value : 0.214498  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.937068

Absolute distances

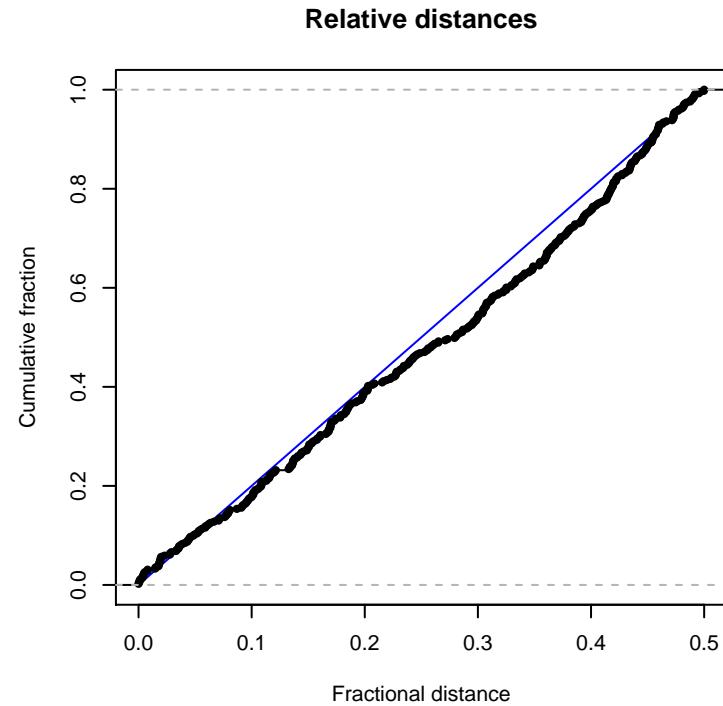
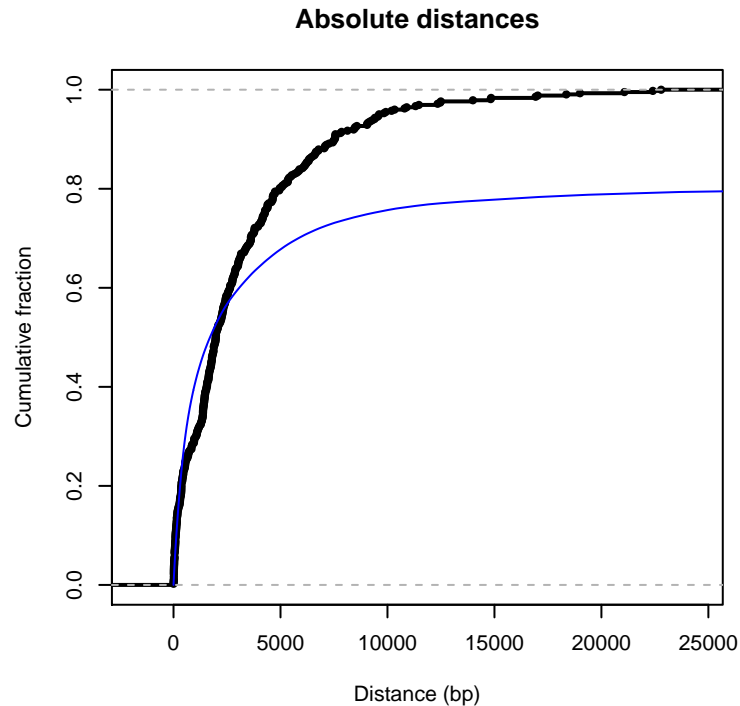


Relative distances



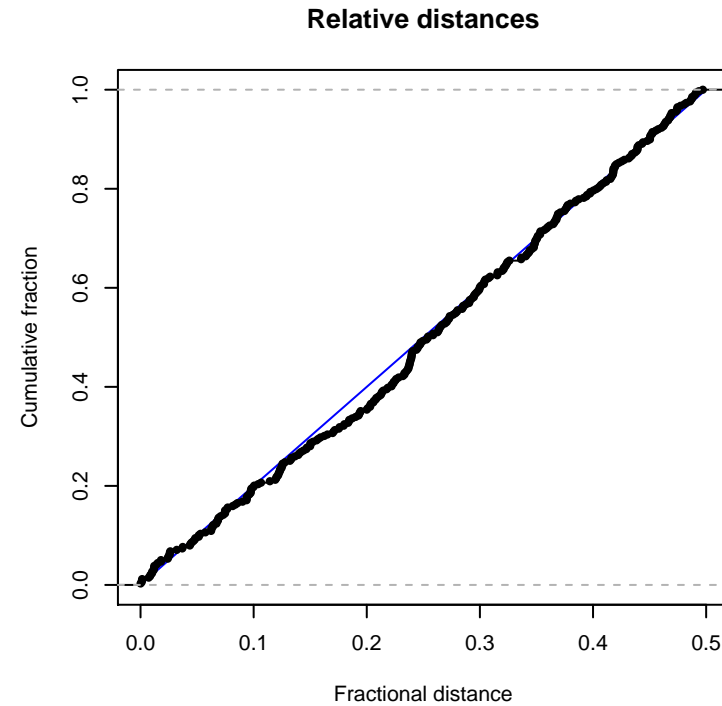
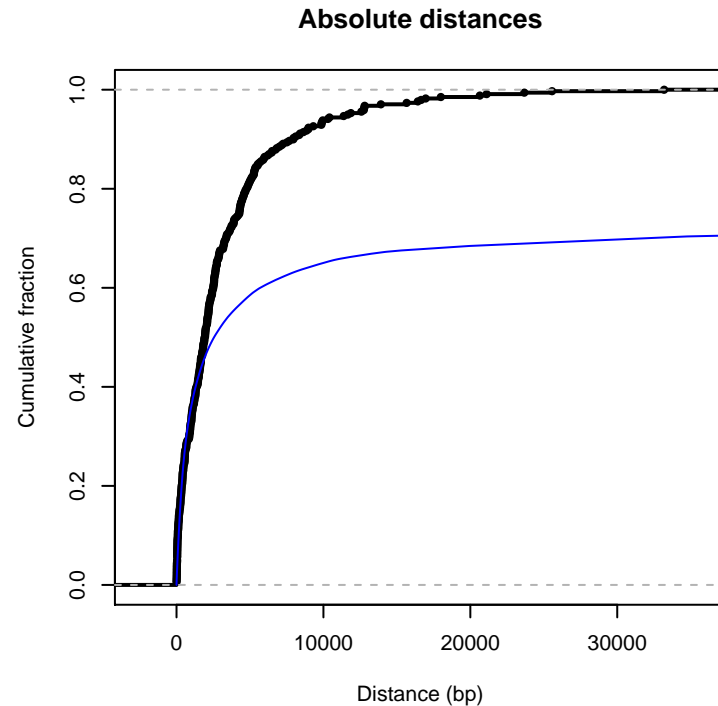
# pcontig\_003

Query population : 423  
Reference population : 1462  
Relative Ks p-value : 0.0465841  
Relative ecdf deviation area : 0.0139232  
Relative ecdf area correlation : -0.0514715  
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 : TRUE  
Projection test p-value : 0.040298  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.880003



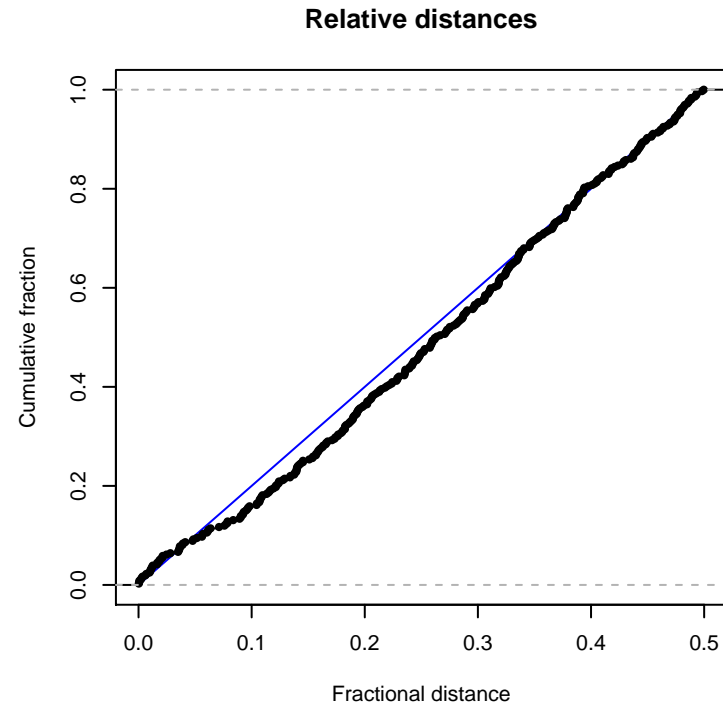
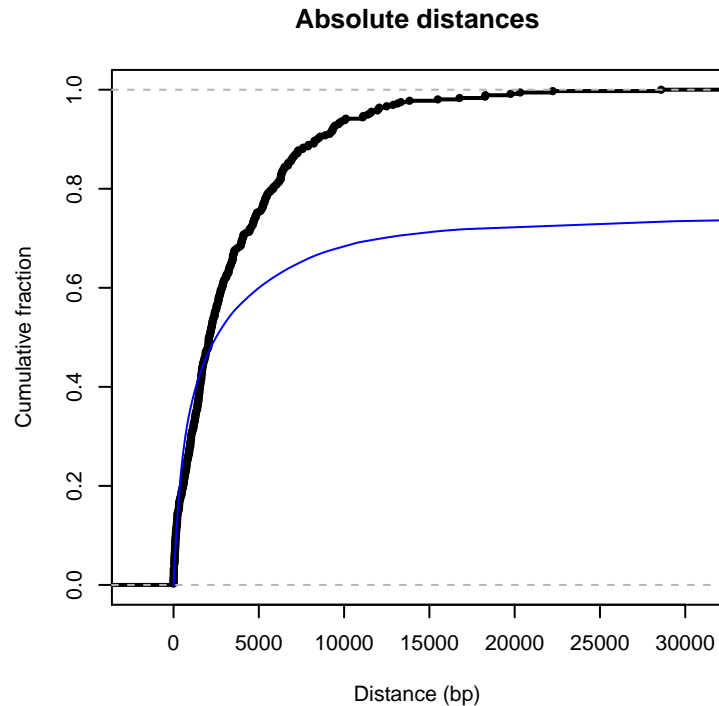
# pcontig\_004

Query population : 339  
Reference population : 1370  
Relative Ks p-value : 0.390545  
Relative ecdf deviation area : 0.00641501  
Relative ecdf area correlation : -0.0193985  
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 : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.465026  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.987218



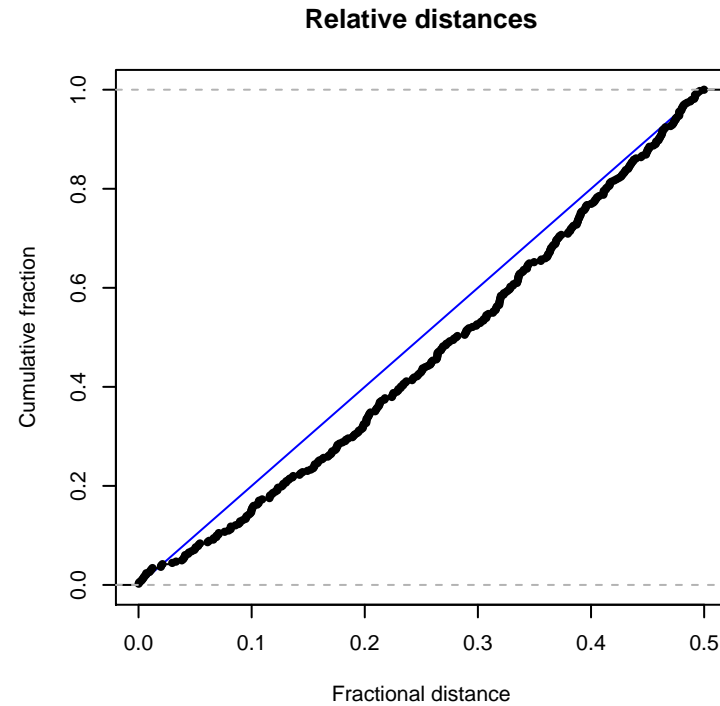
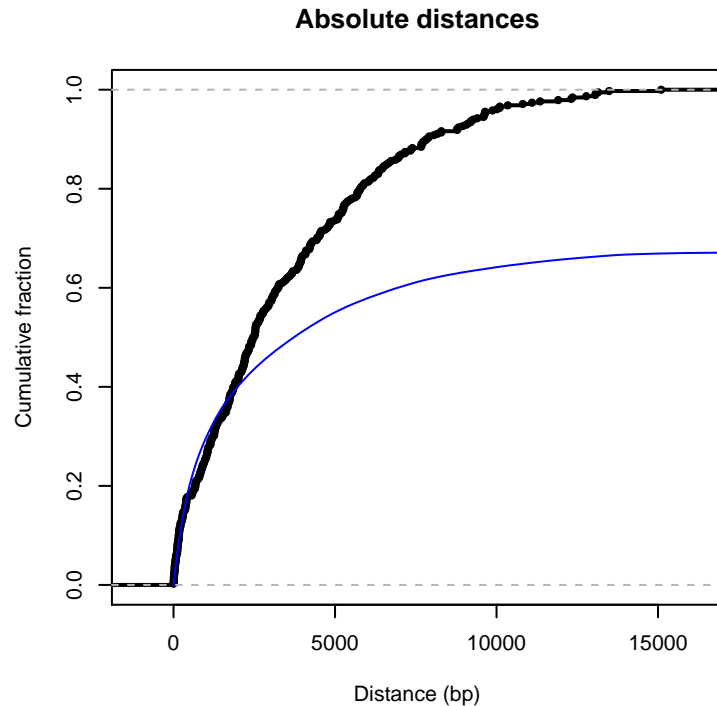
# pcontig\_005

Query population : 359  
Reference population : 1300  
Relative Ks p-value : 0.225667  
Relative ecdf deviation area : 0.0117533  
Relative ecdf area correlation : -0.0430545  
Relative ecdf deviation area p-value : 0.18  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.172126  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.919615



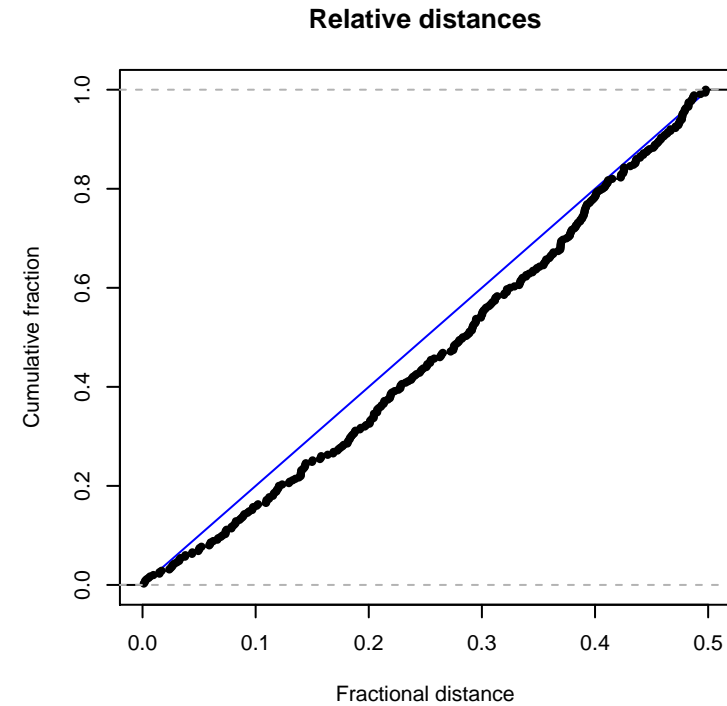
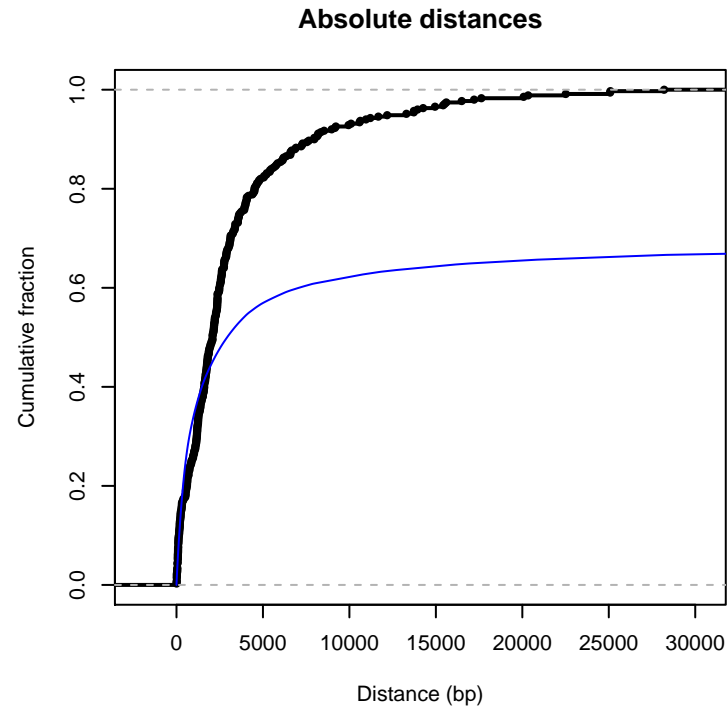
# pcontig\_006

Query population : 382  
Reference population : 1069  
Relative Ks p-value : 0.011062  
Relative ecdf deviation area : 0.0230118  
Relative ecdf area correlation : -0.0920143  
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 : TRUE  
Projection test p-value : 0.475768  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.988349



# pcontig\_007

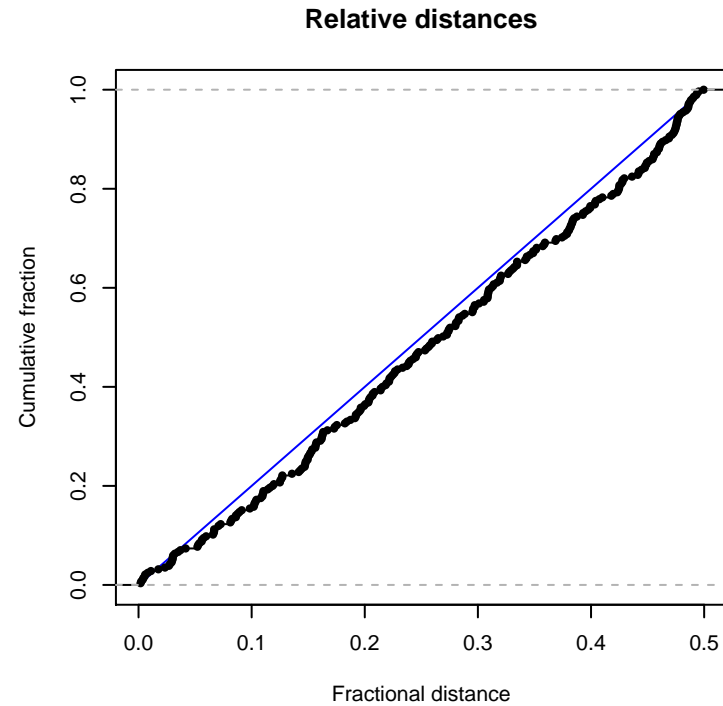
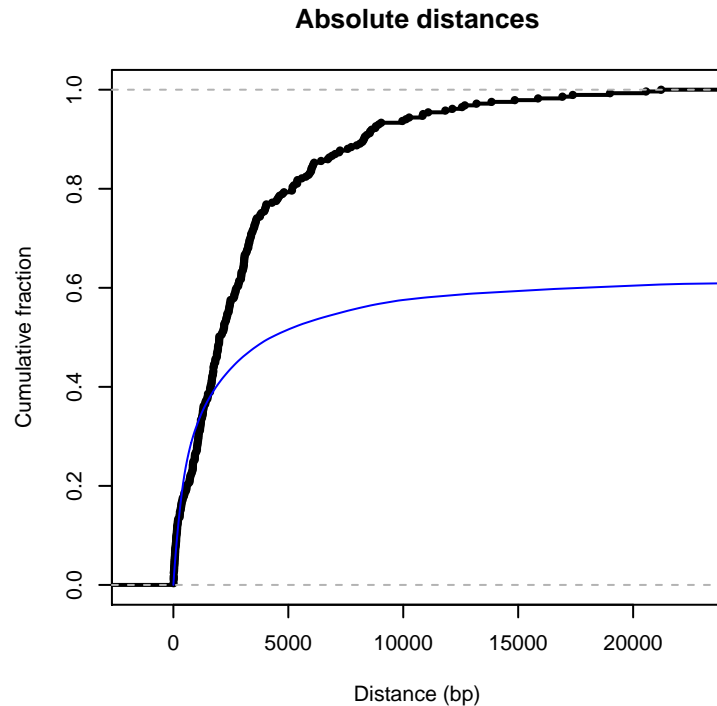
Query population : 350  
Reference population : 1310  
Relative Ks p-value : 0.0244181  
Relative ecdf deviation area : 0.0209651  
Relative ecdf area correlation : -0.0842625  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.494921  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.995666





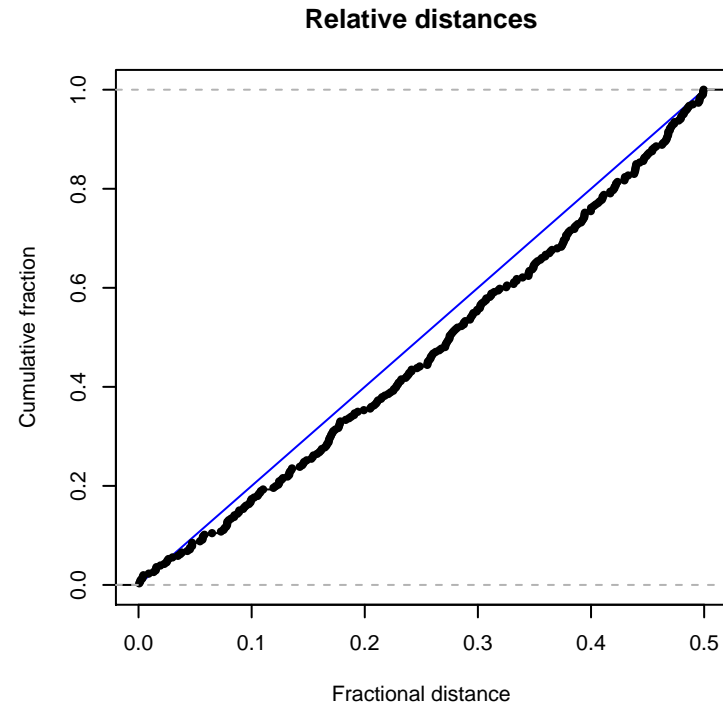
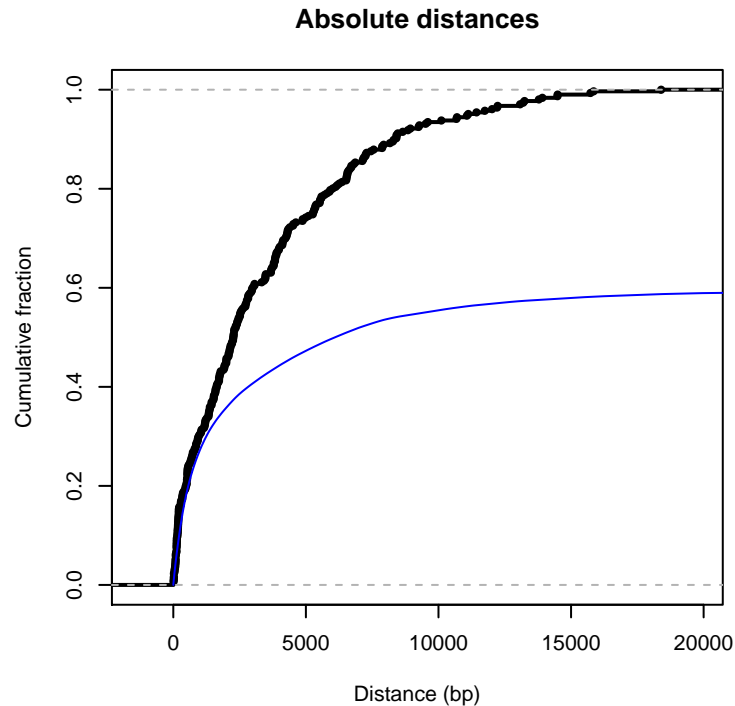
## pcontig\_008

Query population : 285  
Reference population : 1175  
Relative Ks p-value : 0.281454  
Relative ecdf deviation area : 0.0160826  
Relative ecdf area correlation : -0.0631117  
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 : TRUE  
Projection test p-value : 0.269452  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.05359



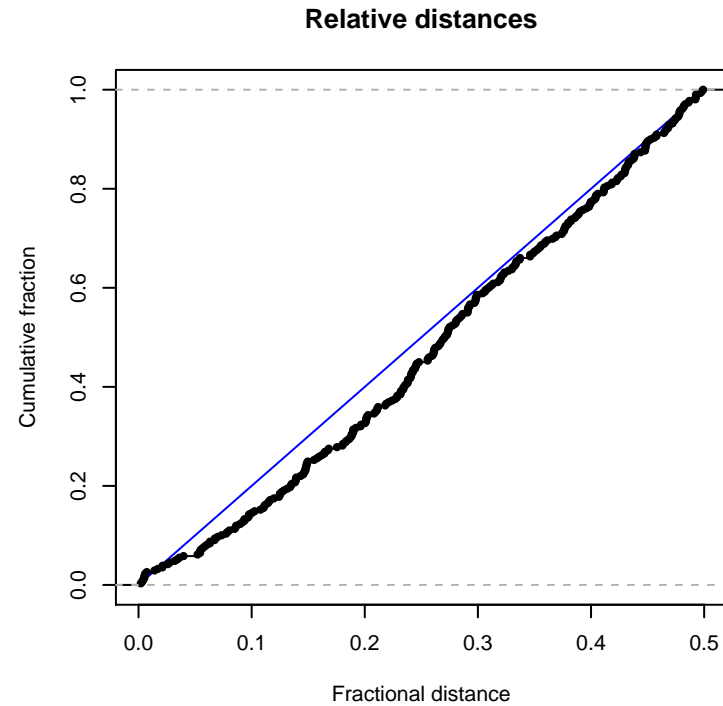
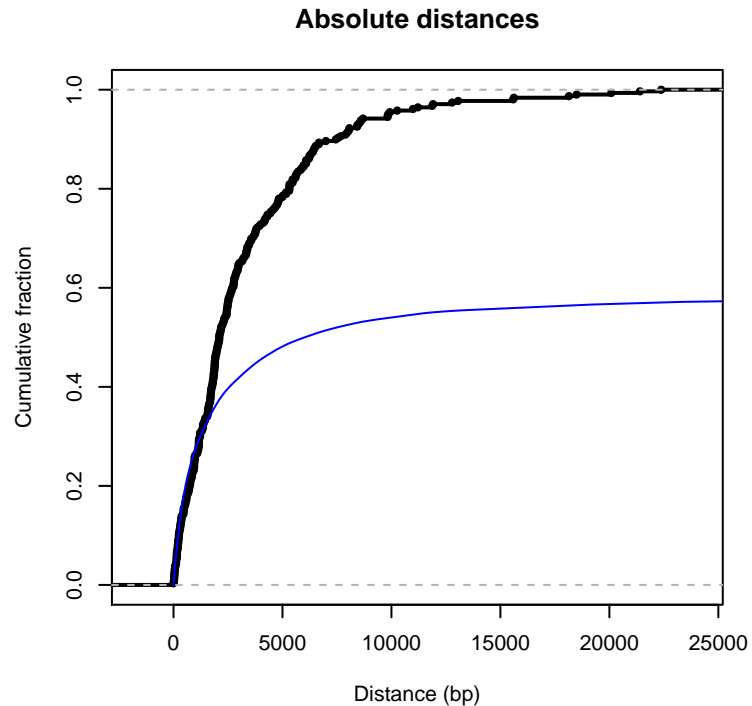
# pcontig\_009

Query population : 306  
Reference population : 954  
Relative Ks p-value : 0.105755  
Relative ecdf deviation area : 0.0195681  
Relative ecdf area correlation : -0.078072  
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 : 0.00600547  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.25697



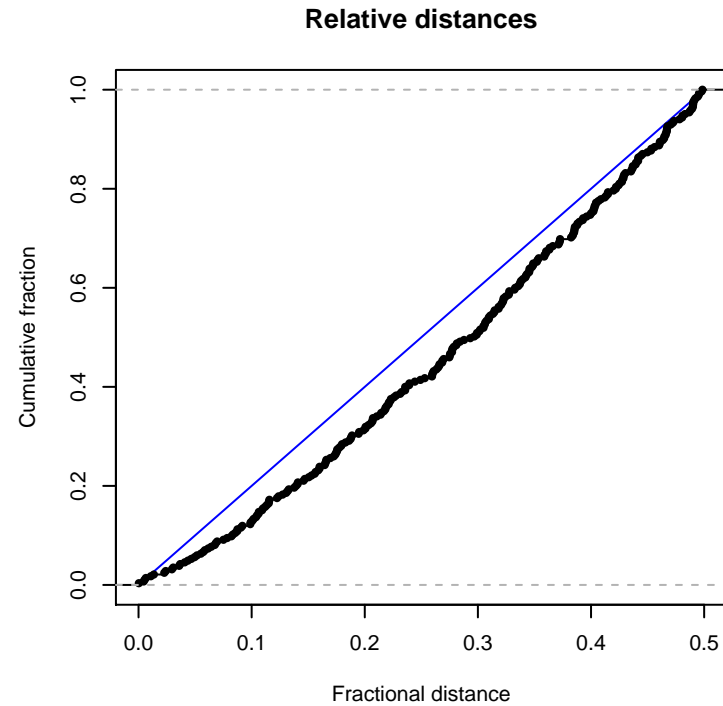
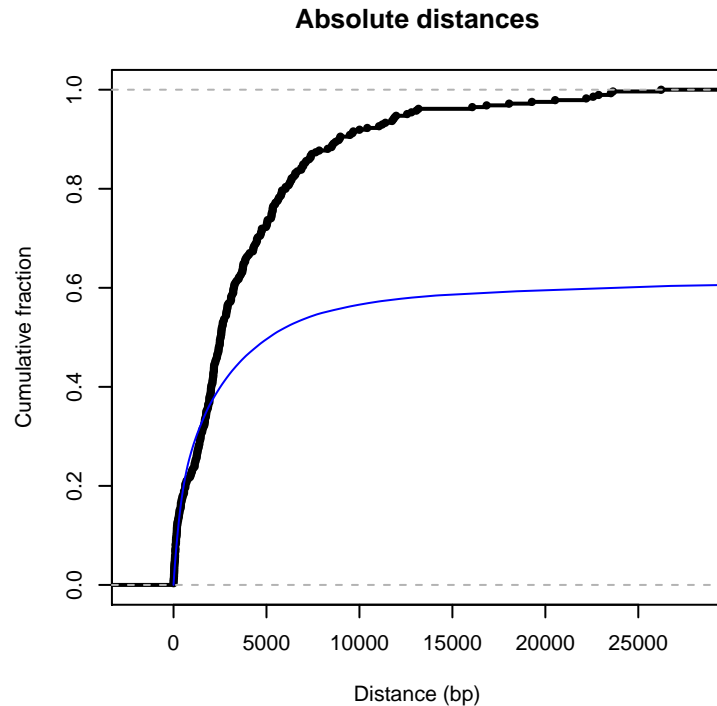
# pcontig\_010

Query population : 309  
Reference population : 972  
Relative Ks p-value : 0.0308974  
Relative ecdf deviation area : 0.0197149  
Relative ecdf area correlation : -0.0770871  
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 : 0.285892  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.05124



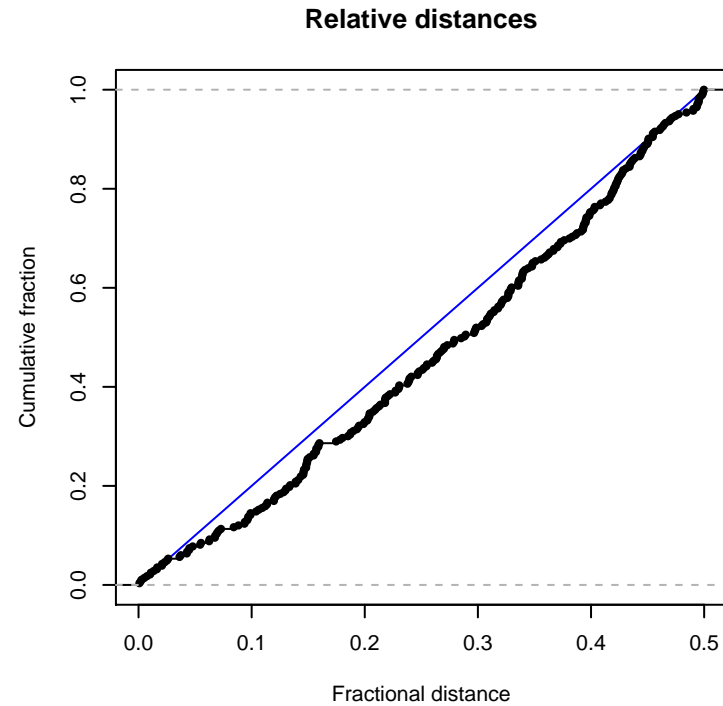
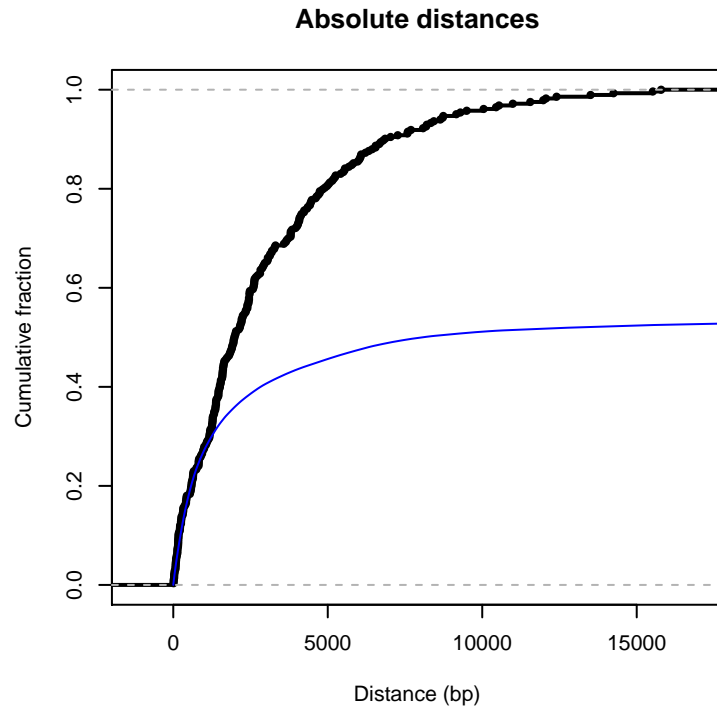
# pcontig\_011

Query population : 285  
Reference population : 1007  
Relative Ks p-value : 0.00579868  
Relative ecdf deviation area : 0.0291151  
Relative ecdf area correlation : -0.117468  
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 : 0.396091  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.960638



# pcontig\_012

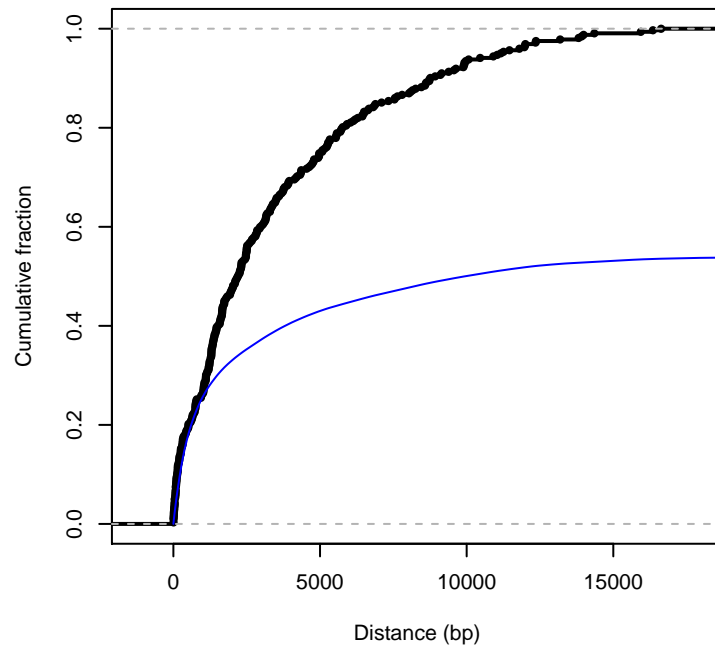
Query population : 283  
Reference population : 897  
Relative Ks p-value : 0.0245692  
Relative ecdf deviation area : 0.0239615  
Relative ecdf area correlation : -0.0967929  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.15  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0287835  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.20661



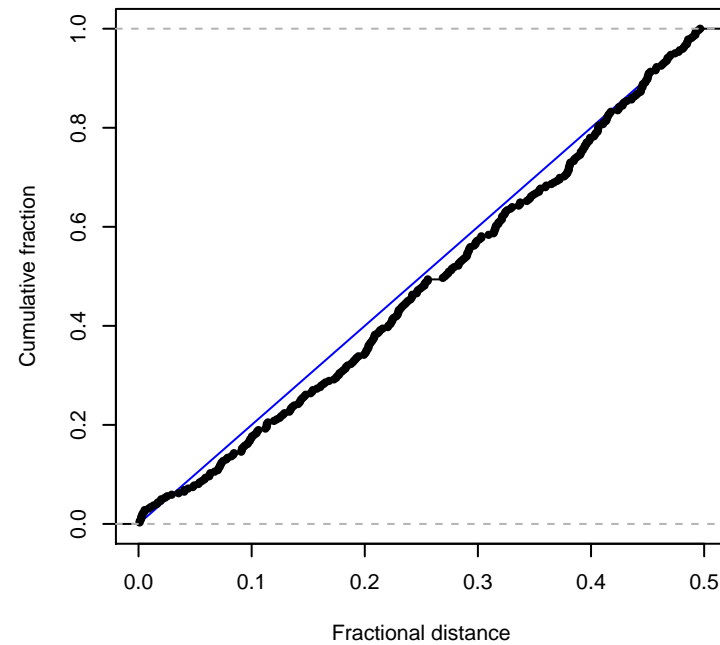
# pcontig\_013

Query population : 322  
Reference population : 936  
Relative Ks p-value : 0.197802  
Relative ecdf deviation area : 0.0138323  
Relative ecdf area correlation : -0.0531257  
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 : 0.2  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.00186325  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.31305

Absolute distances

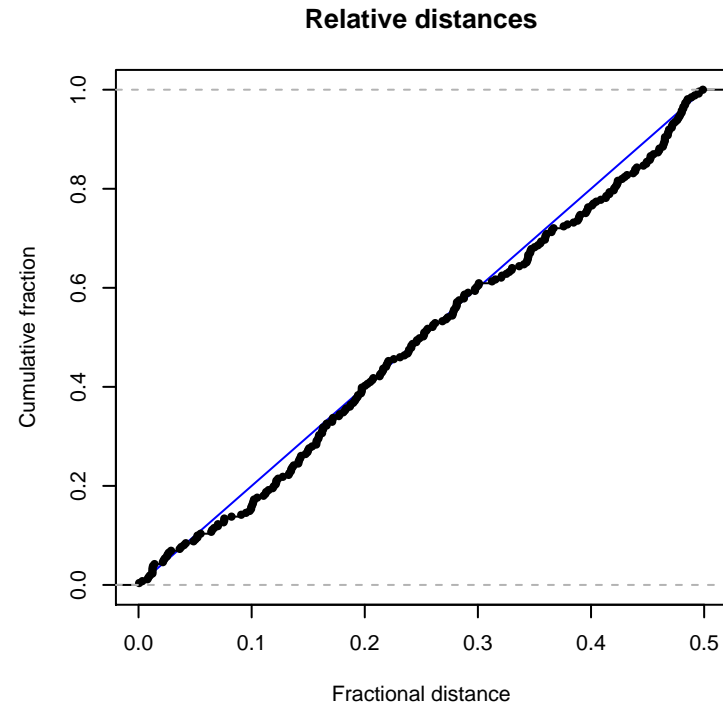
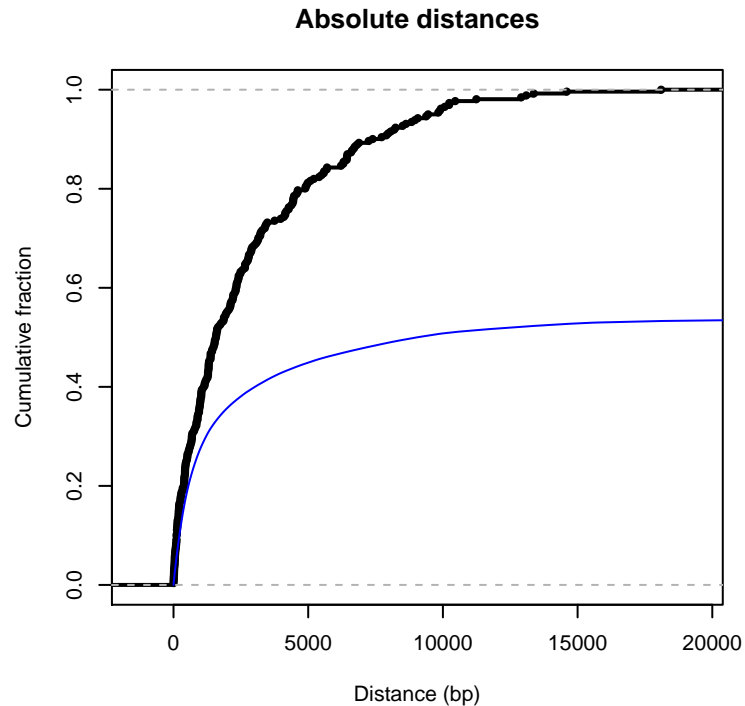


Relative distances



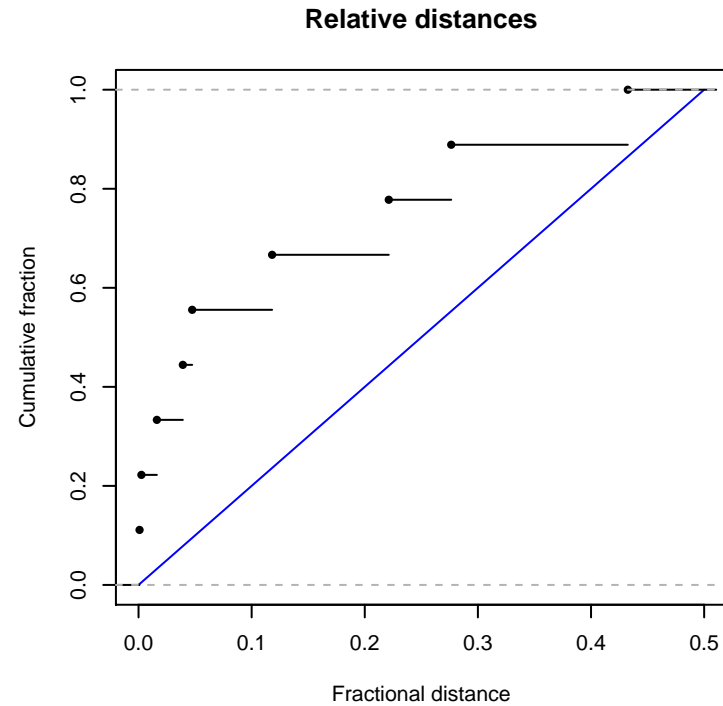
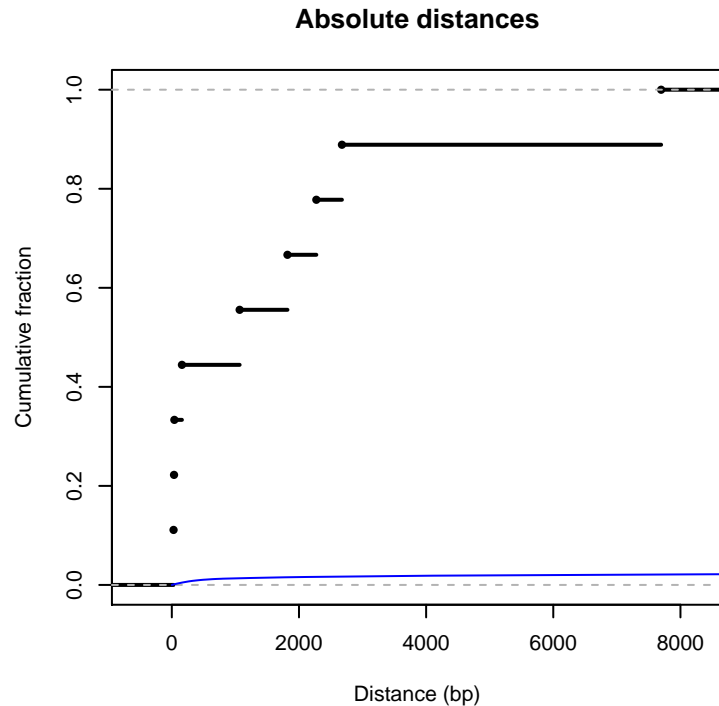
# pcontig\_014

Query population : 261  
Reference population : 941  
Relative Ks p-value : 0.507378  
Relative ecdf deviation area : 0.0101725  
Relative ecdf area correlation : -0.0375437  
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 : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 6.00362e-05  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.42702



# pcontig\_015

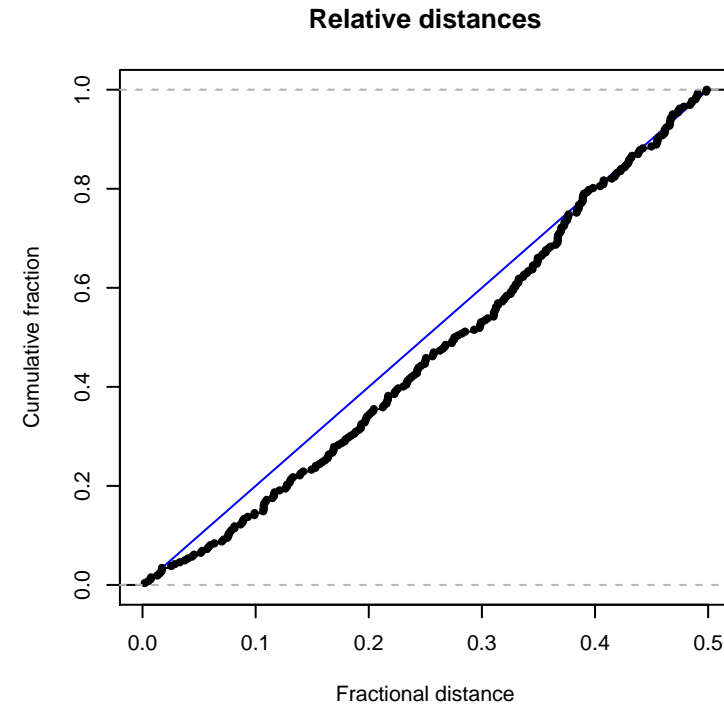
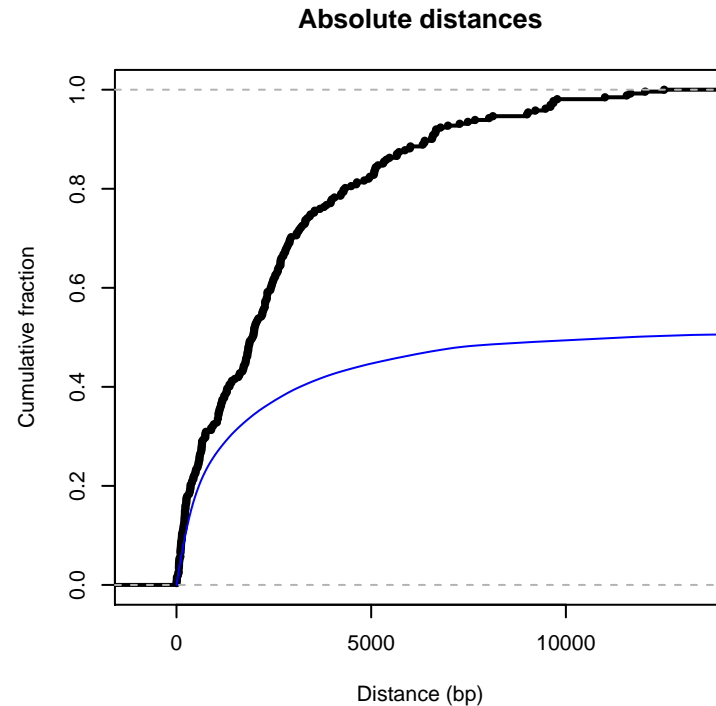
Query population : 9  
Reference population : 62  
Relative Ks p-value : 0.0287692  
Relative ecdf deviation area : 0.122046  
Relative ecdf area correlation : 0.4869  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.22319e-08  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 33.1438





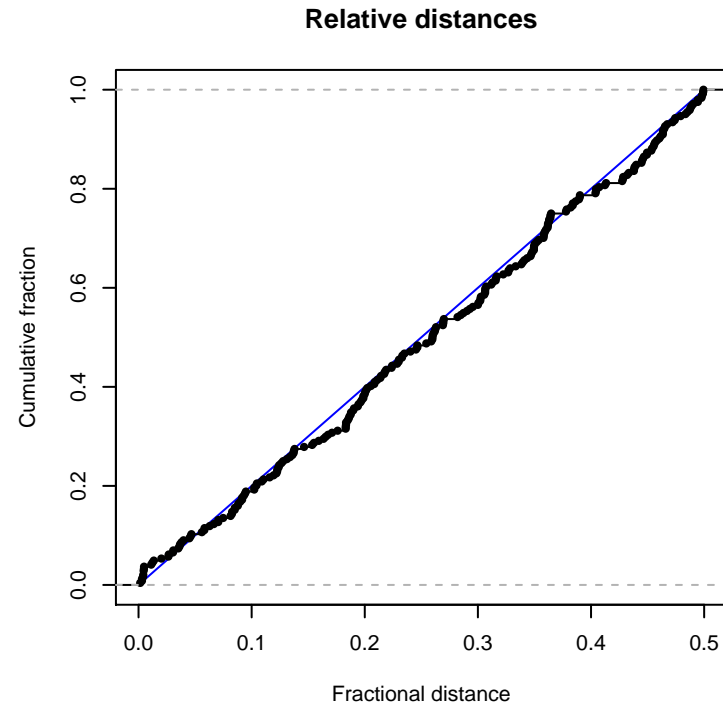
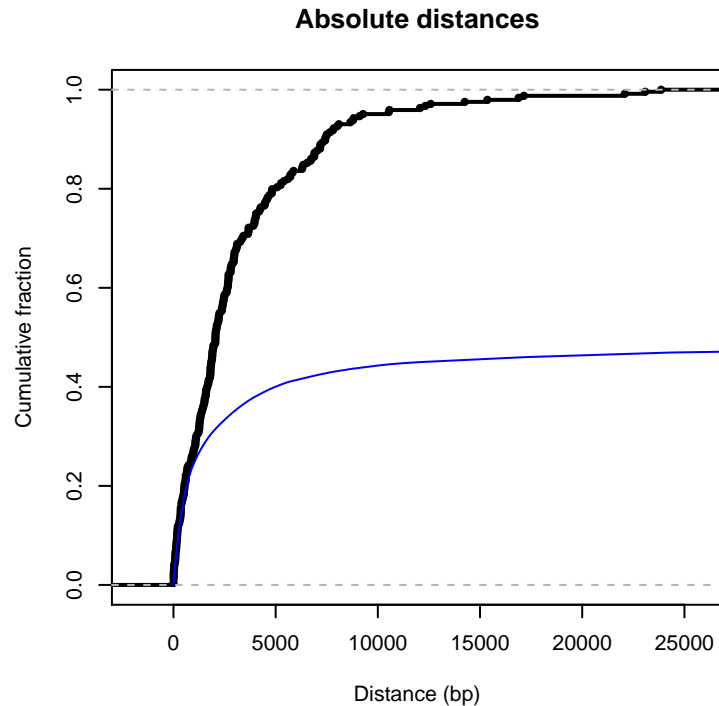
# pcontig\_016

Query population : 262  
Reference population : 956  
Relative Ks p-value : 0.05694  
Relative ecdf deviation area : 0.0206178  
Relative ecdf area correlation : -0.0792794  
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 : 0.1  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000742315  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.36369



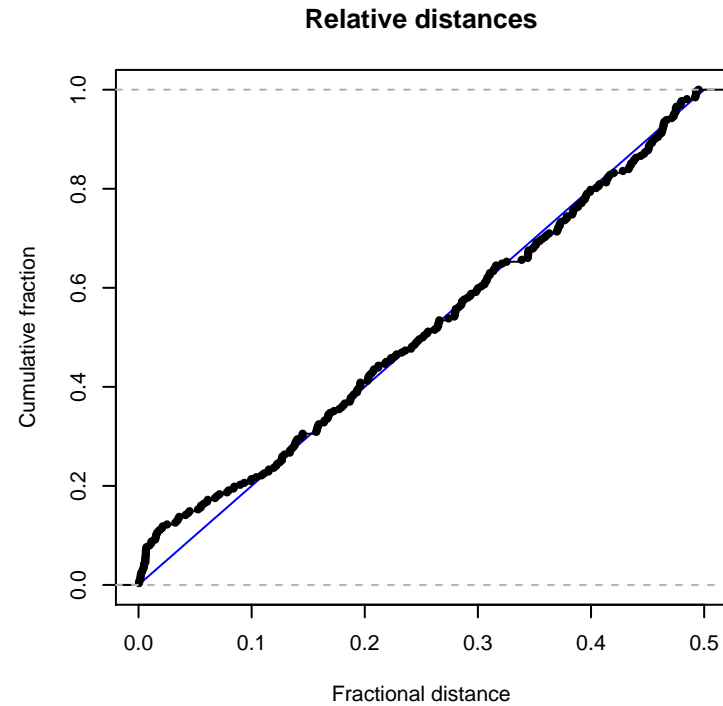
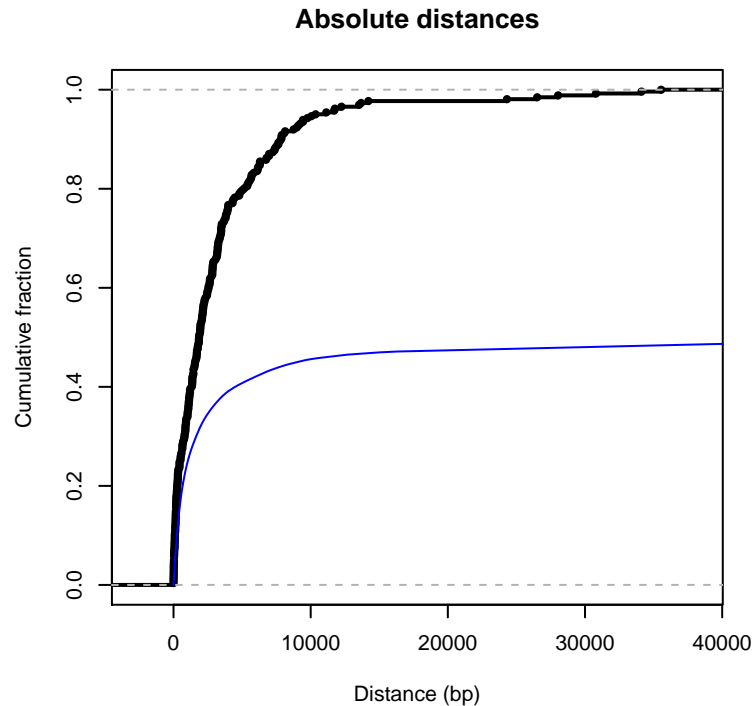
# pcontig\_017

Query population : 244  
Reference population : 912  
Relative Ks p-value : 0.456789  
Relative ecdf deviation area : 0.00869526  
Relative ecdf area correlation : -0.0297569  
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 : 0.26  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0796123  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.17429



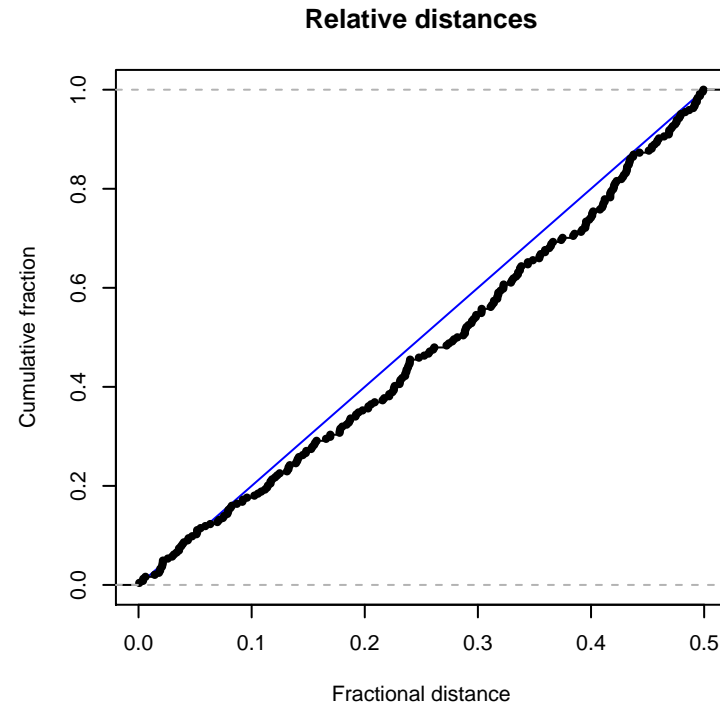
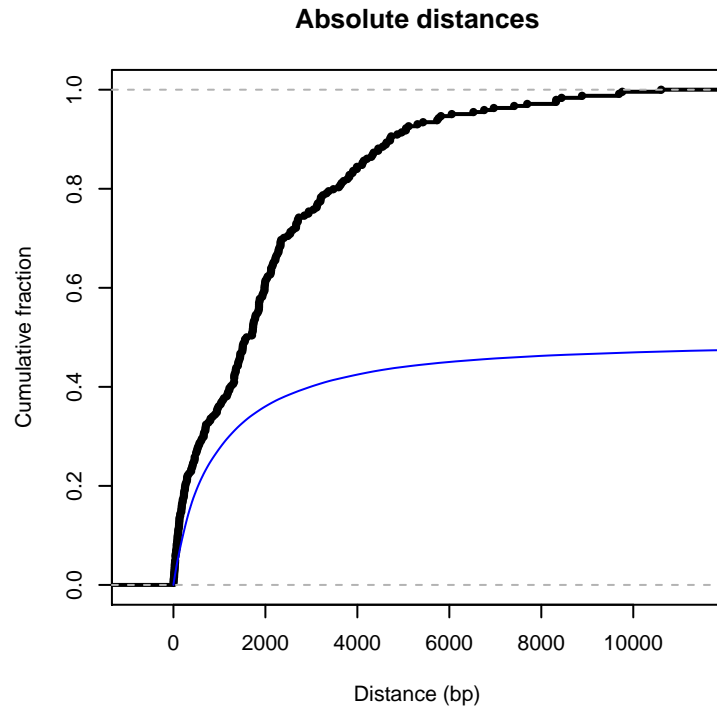
# pcontig\_018

Query population : 262  
Reference population : 854  
Relative Ks p-value : 0.101551  
Relative ecdf deviation area : 0.00834516  
Relative ecdf area correlation : 0.0106274  
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 : 0.26  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.0905e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.60415



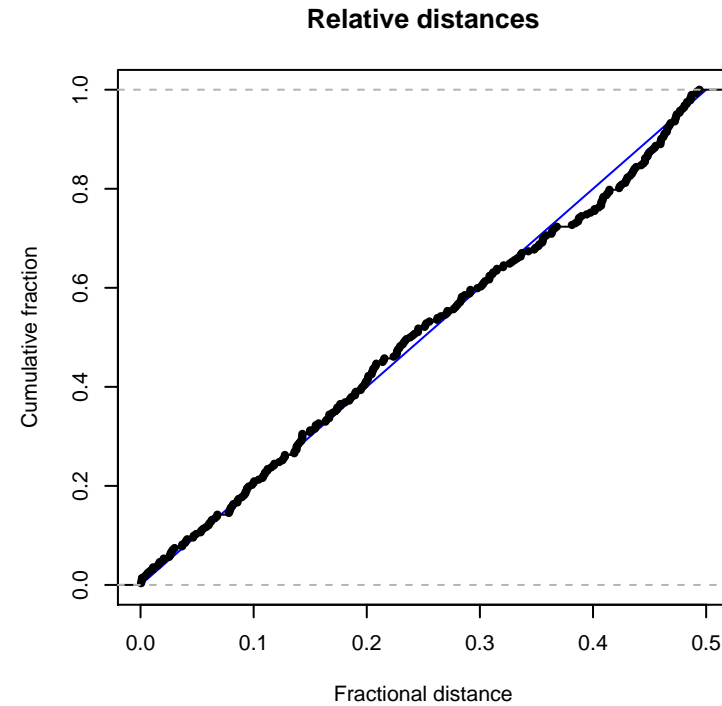
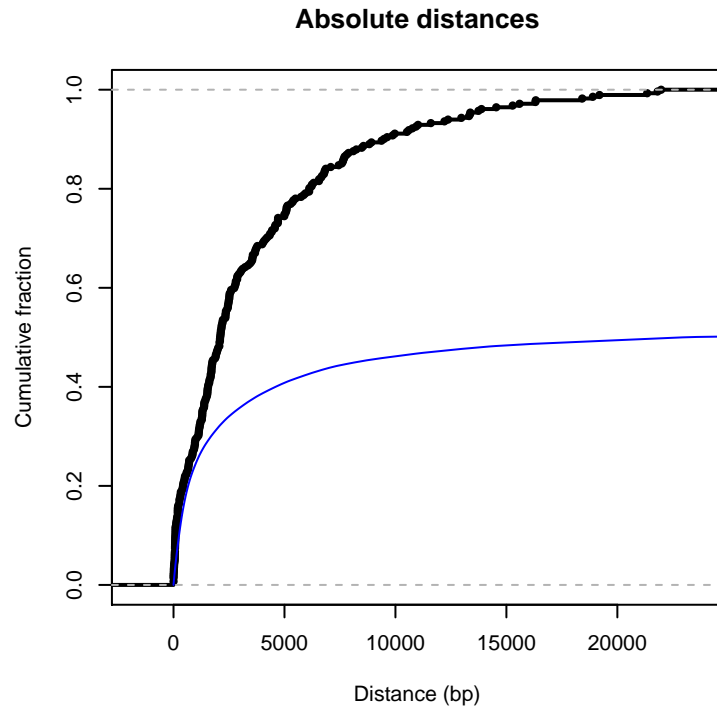
# pcontig\_019

Query population : 244  
Reference population : 1007  
Relative Ks p-value : 0.137109  
Relative ecdf deviation area : 0.0168975  
Relative ecdf area correlation : -0.0690382  
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 : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.28223e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.50501



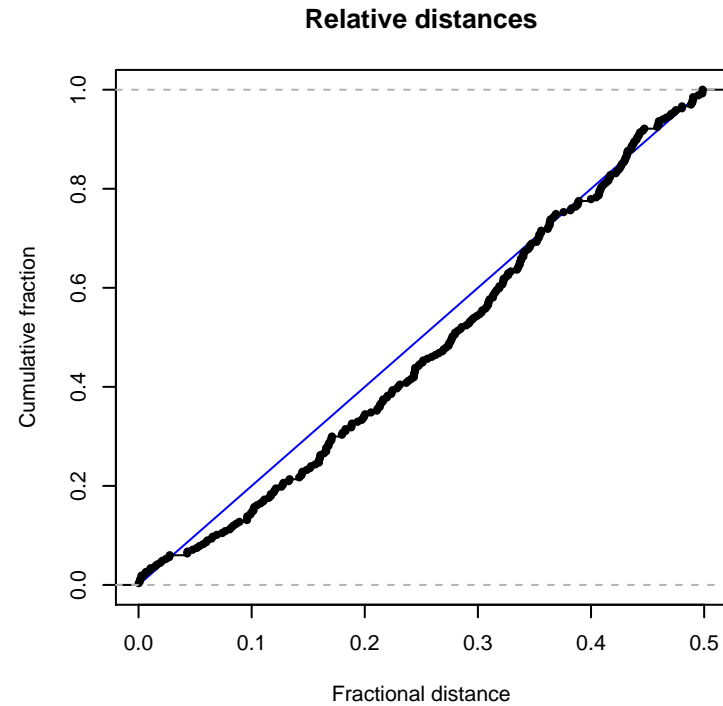
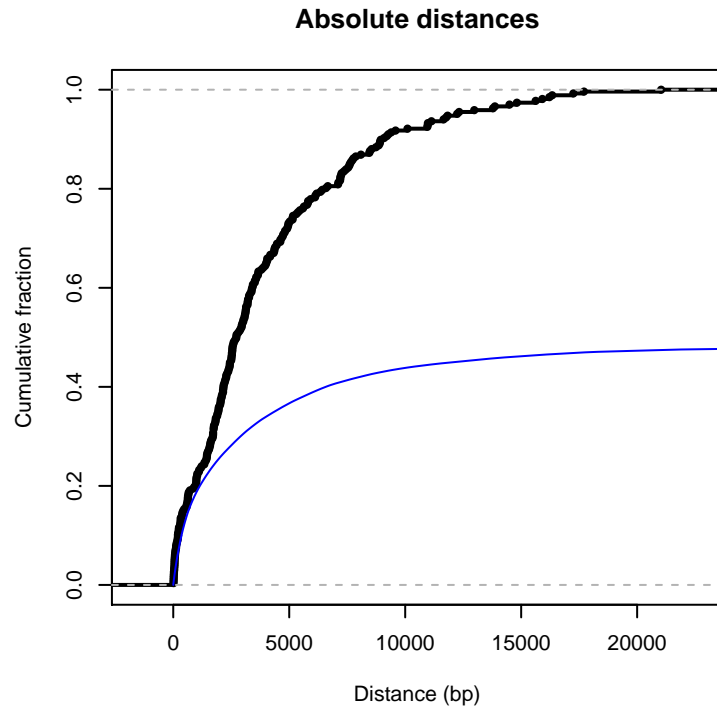
# pcontig\_020

Query population : 282  
Reference population : 826  
Relative Ks p-value : 0.435663  
Relative ecdf deviation area : 0.00671617  
Relative ecdf area correlation : -0.00689977  
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 : 0.16  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000325506  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.40494



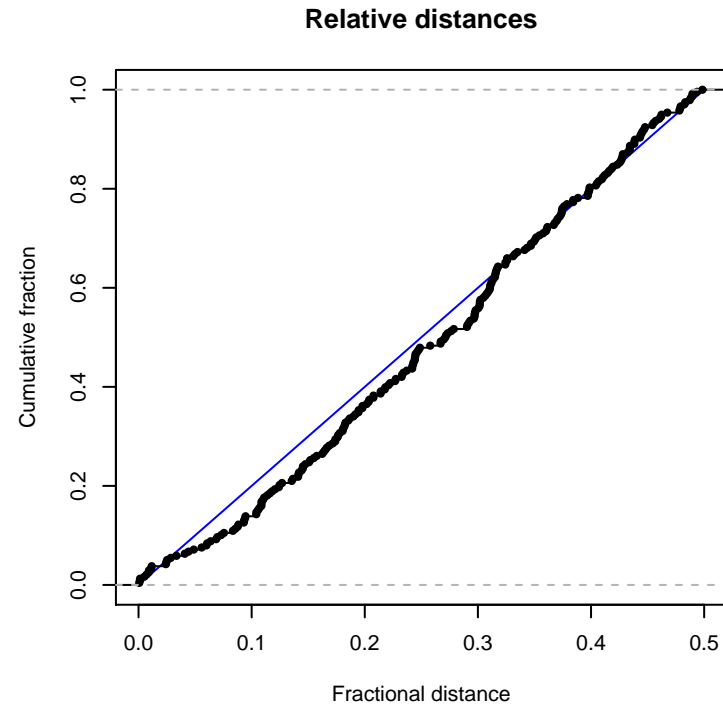
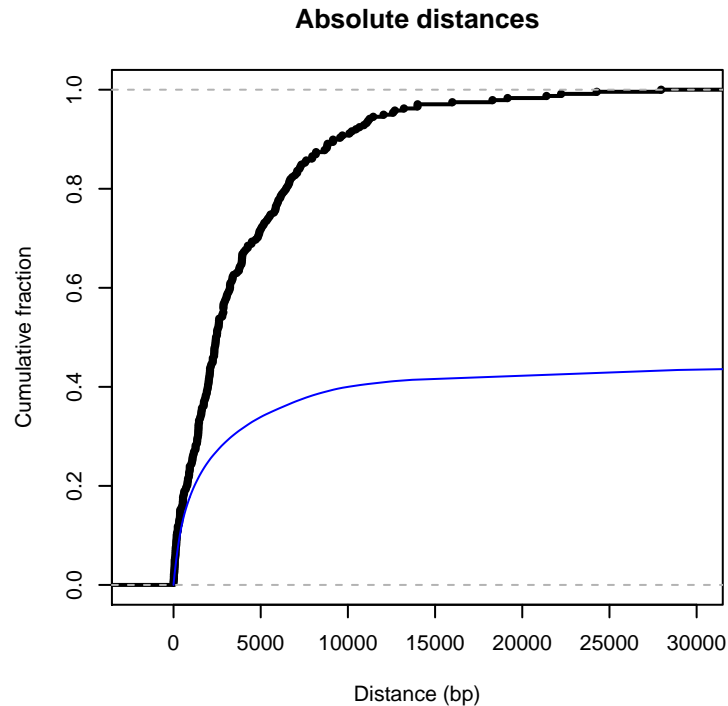
# pcontig\_021

Query population : 267  
Reference population : 659  
Relative Ks p-value : 0.0960091  
Relative ecdf deviation area : 0.0178212  
Relative ecdf area correlation : -0.0644028  
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 : 0.45  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000857956  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.46055



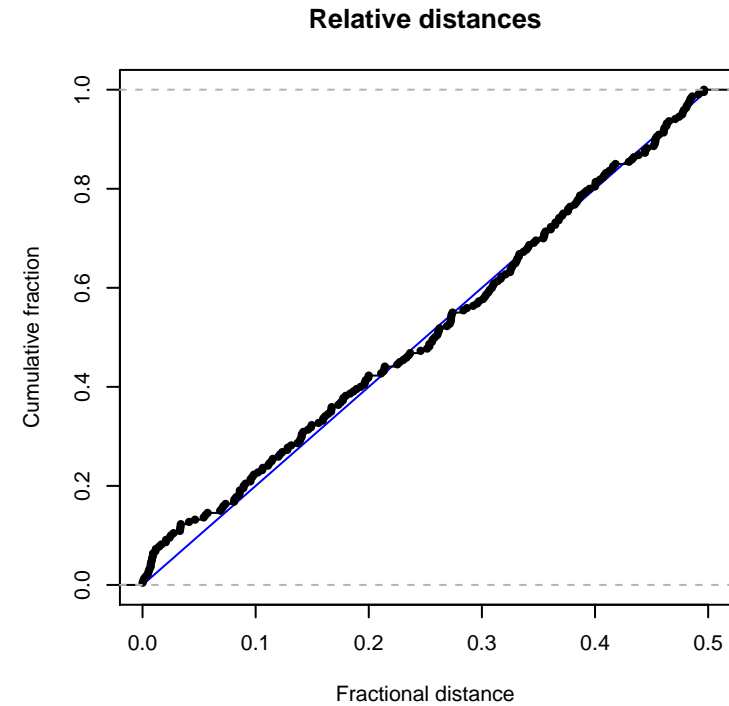
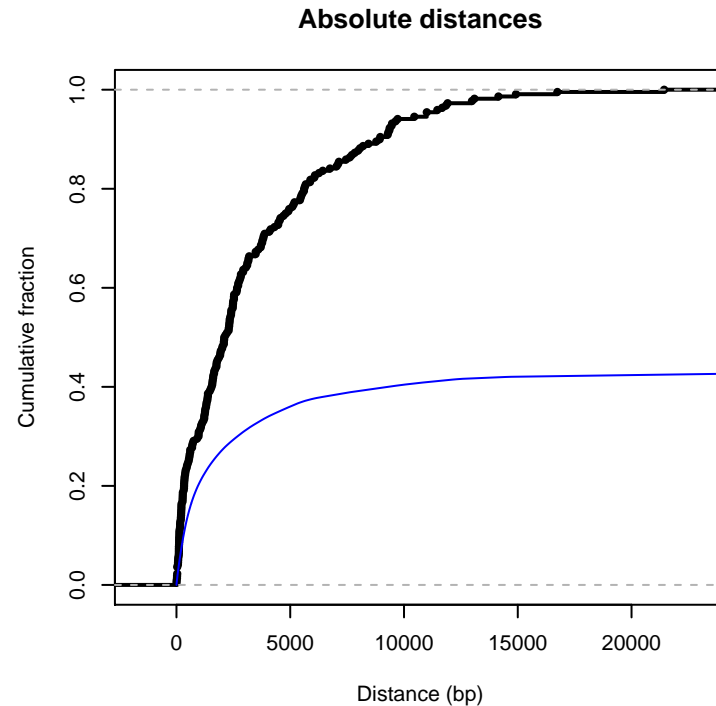
# pcontig\_022

Query population : 238  
Reference population : 643  
Relative Ks p-value : 0.200404  
Relative ecdf deviation area : 0.0145796  
Relative ecdf area correlation : -0.0477427  
Relative ecdf deviation area p-value : 0.13  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.67834e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.76592



# pcontig\_023

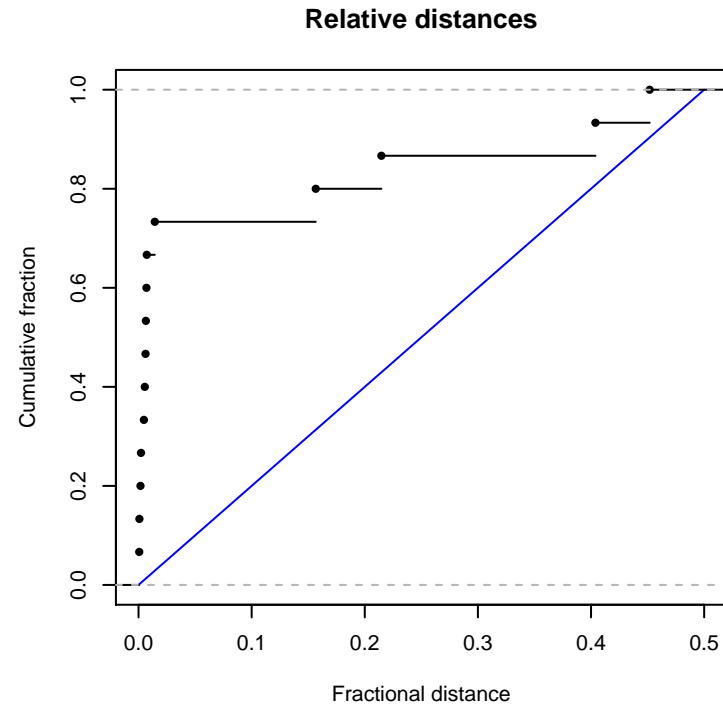
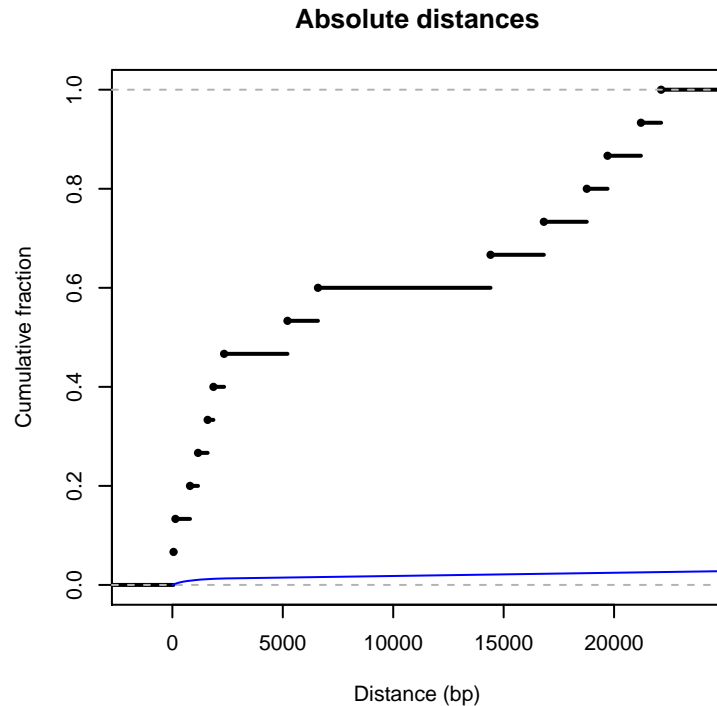
Query population : 220  
Reference population : 747  
Relative Ks p-value : 0.518465  
Relative ecdf deviation area : 0.00766539  
Relative ecdf area correlation : 0.011435  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.28  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 3.0919e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.73045





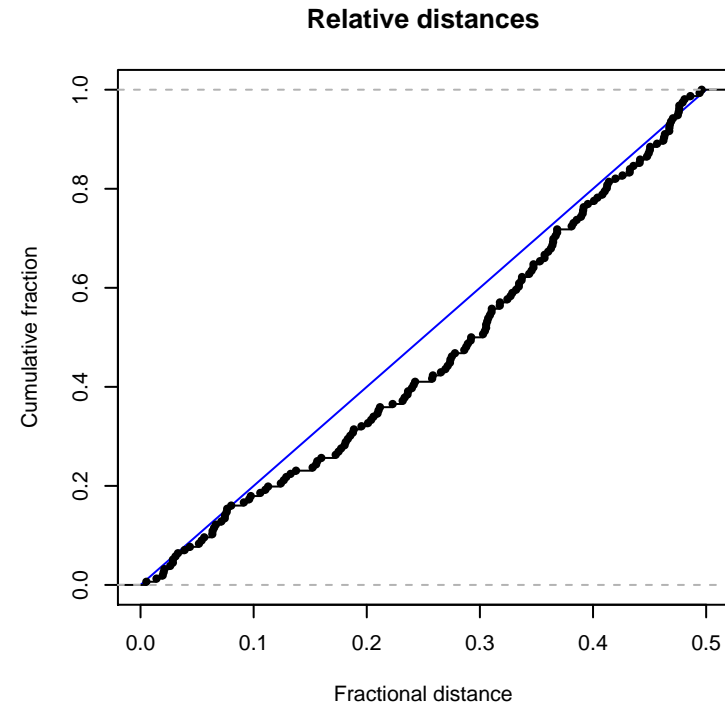
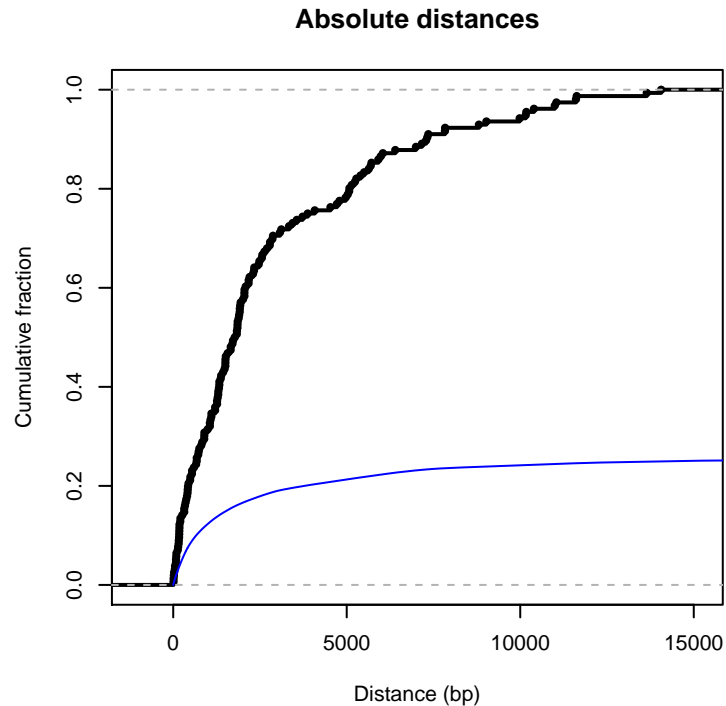
# pcontig\_024

Query population : 15  
Reference population : 34  
Relative Ks p-value : 5.2336e-08  
Relative ecdf deviation area : 0.163985  
Relative ecdf area correlation : 0.657617  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.708e-09  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 32.178



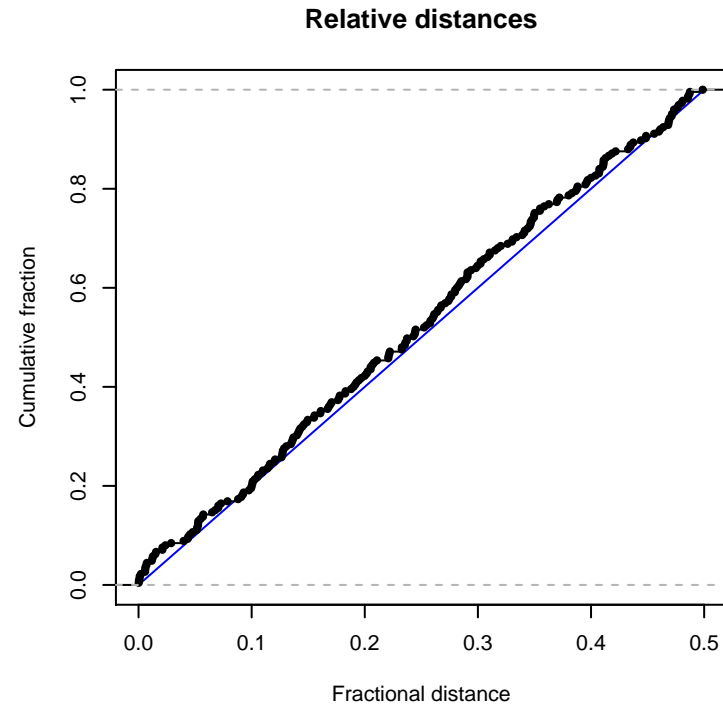
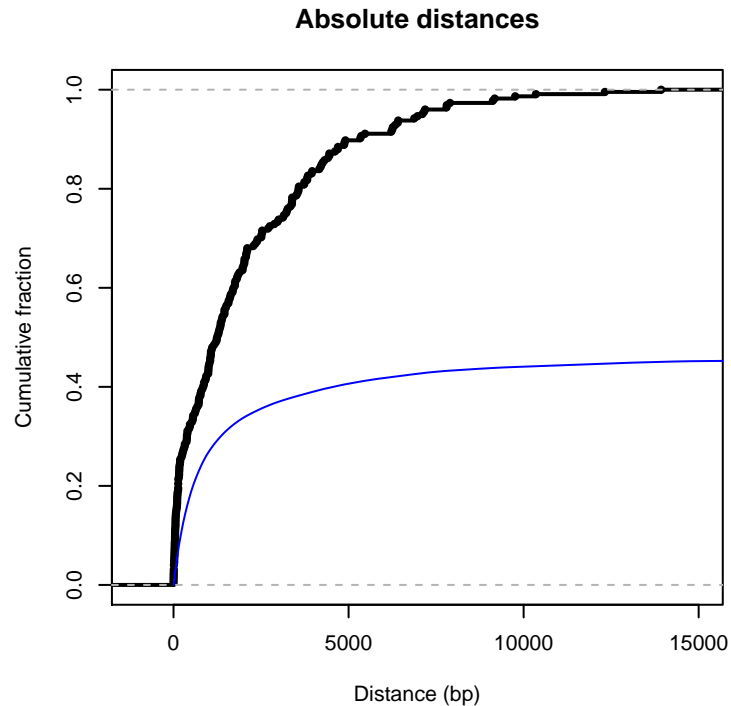
# pcontig\_025

Query population : 156  
Reference population : 424  
Relative Ks p-value : 0.0473265  
Relative ecdf deviation area : 0.0238872  
Relative ecdf area correlation : -0.0934827  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.64484



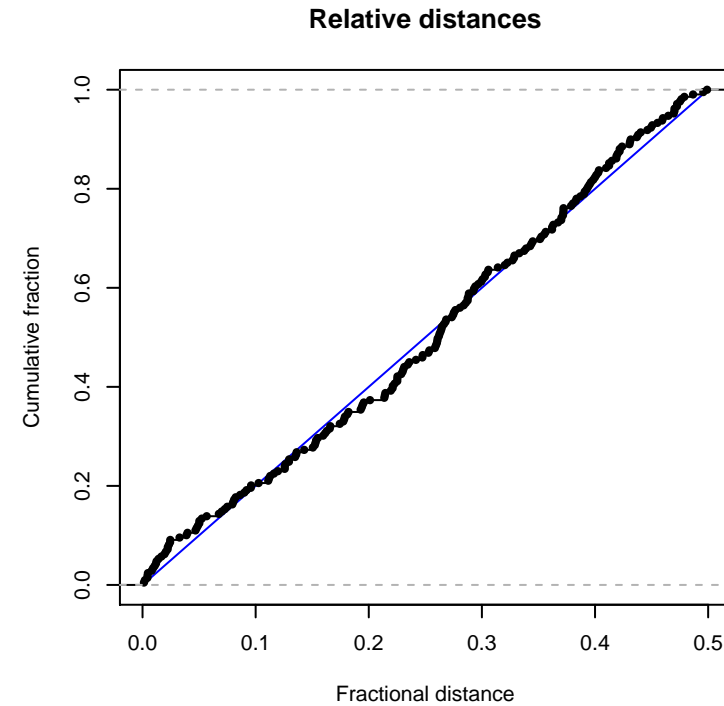
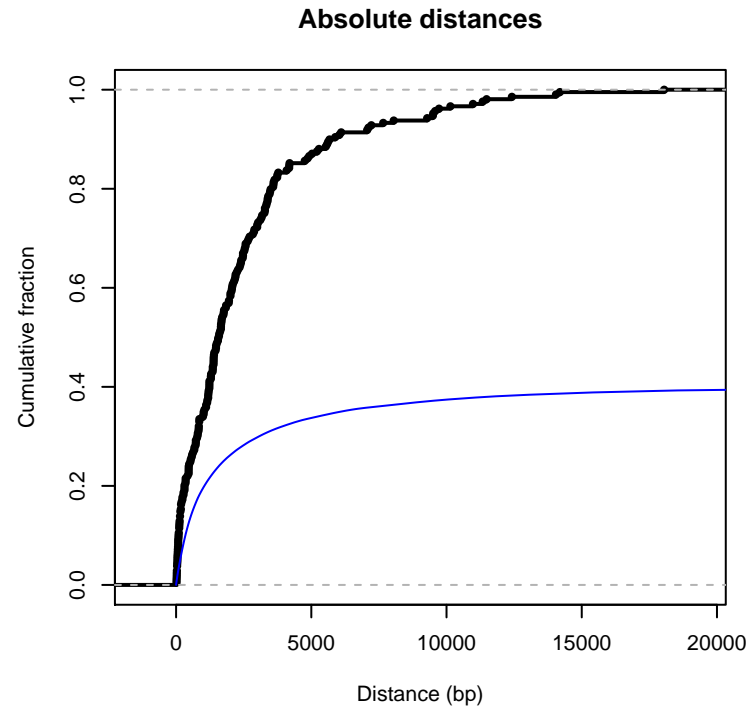
# pcontig\_026

Query population : 225  
Reference population : 1040  
Relative Ks p-value : 0.60823  
Relative ecdf deviation area : 0.0110286  
Relative ecdf area correlation : 0.0409813  
Relative ecdf deviation area p-value : 0.35  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.58362e-09  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.75518



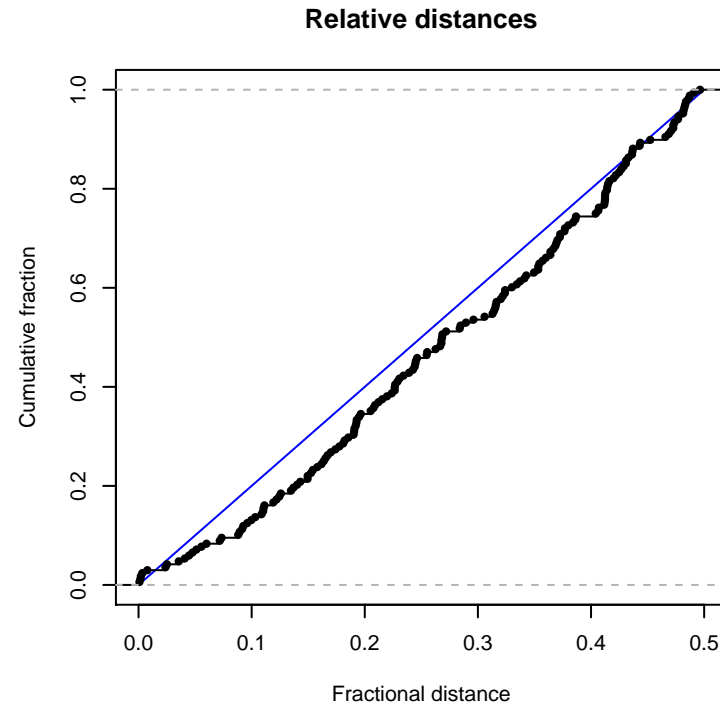
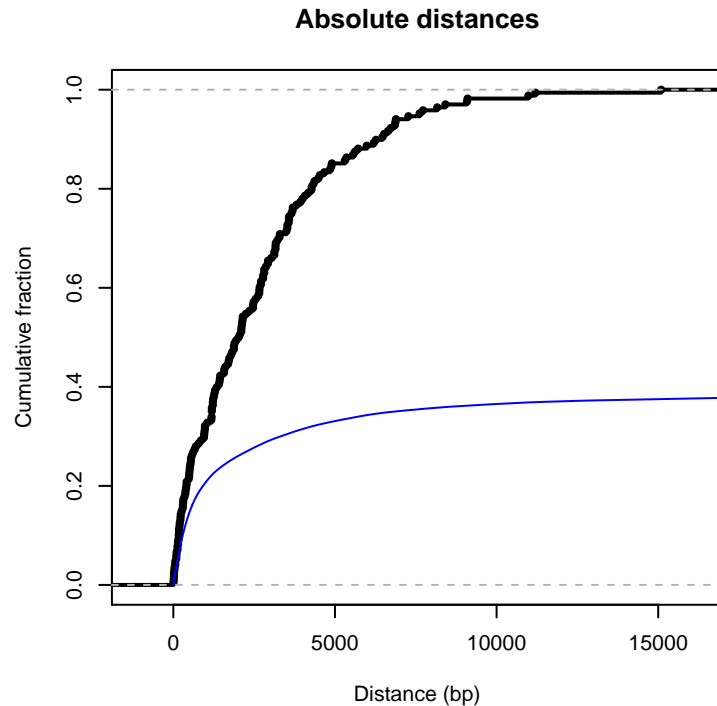
# pcontig\_027

Query population : 209  
Reference population : 667  
Relative Ks p-value : 0.569182  
Relative ecdf deviation area : 0.00877842  
Relative ecdf area correlation : 0.000499054  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 6.8916e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.16306



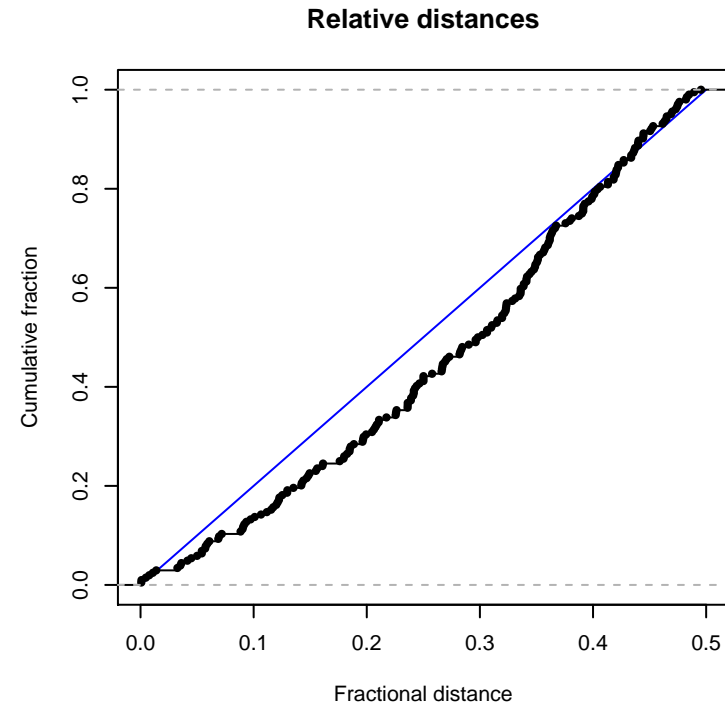
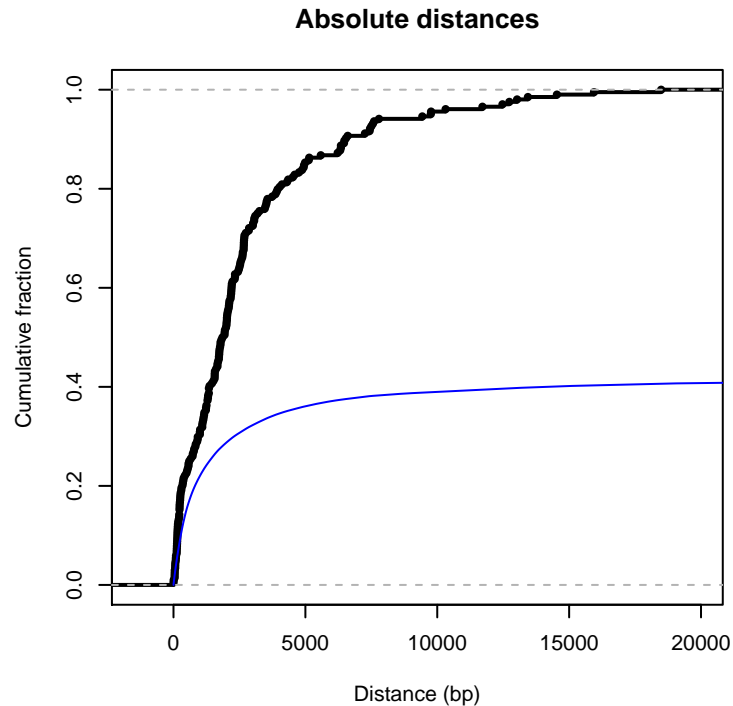
# pcontig\_028

Query population : 168  
Reference population : 761  
Relative Ks p-value : 0.127707  
Relative ecdf deviation area : 0.0243193  
Relative ecdf area correlation : -0.0945658  
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 : 0.12  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 9.05281e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.87344



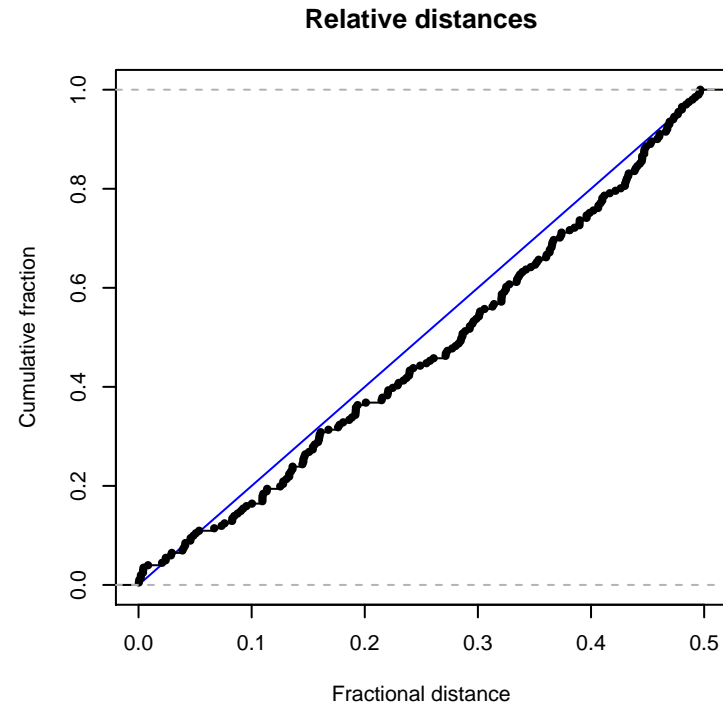
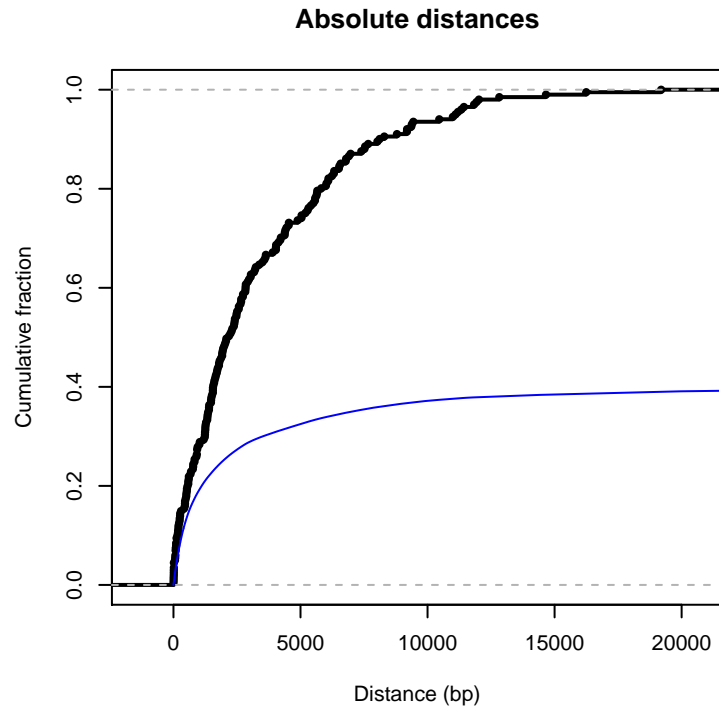
## pcontig\_029

Query population : 204  
Reference population : 791  
Relative Ks p-value : 0.00608284  
Relative ecdf deviation area : 0.0290835  
Relative ecdf area correlation : -0.108178  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 6.45196e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.71138



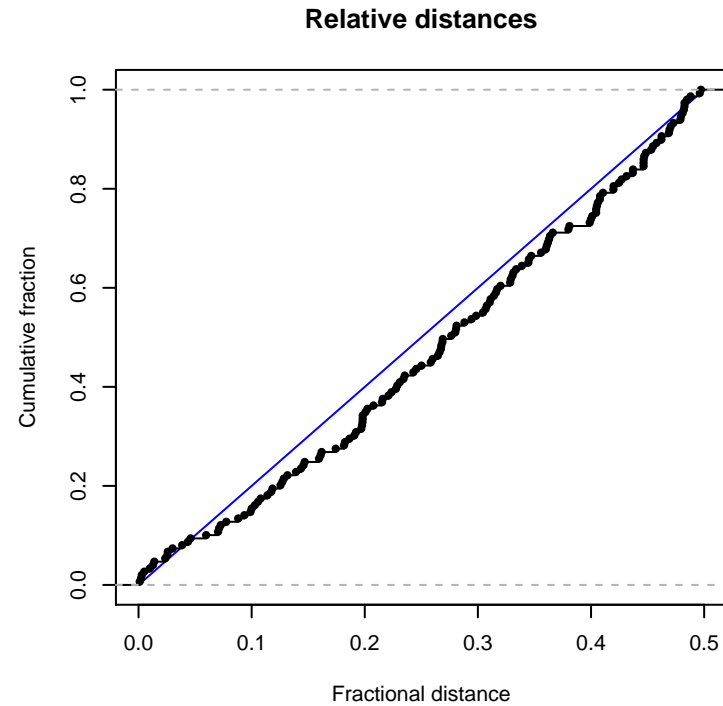
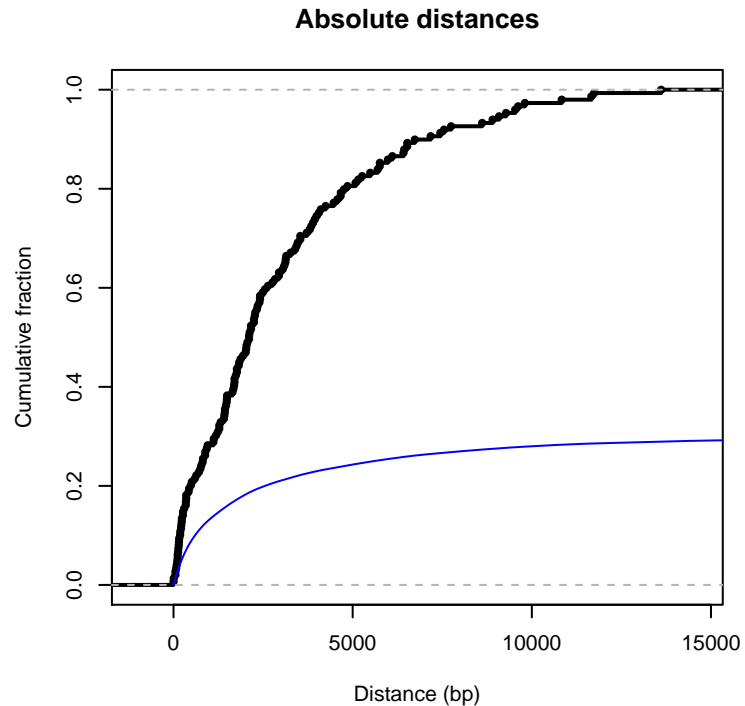
# pcontig\_030

Query population : 201  
Reference population : 715  
Relative Ks p-value : 0.108484  
Relative ecdf deviation area : 0.0194284  
Relative ecdf area correlation : -0.0756595  
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 : 0.04  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000107083  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.61441



# pcontig\_031

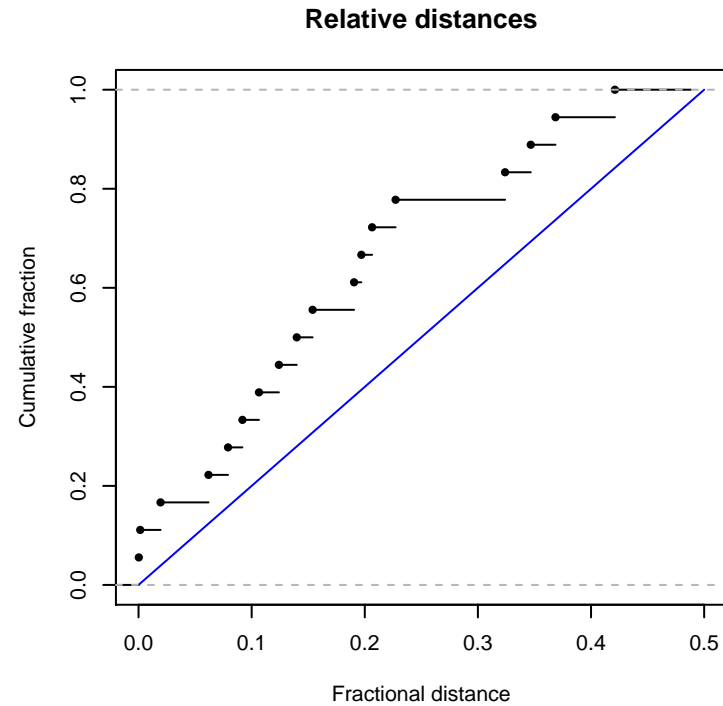
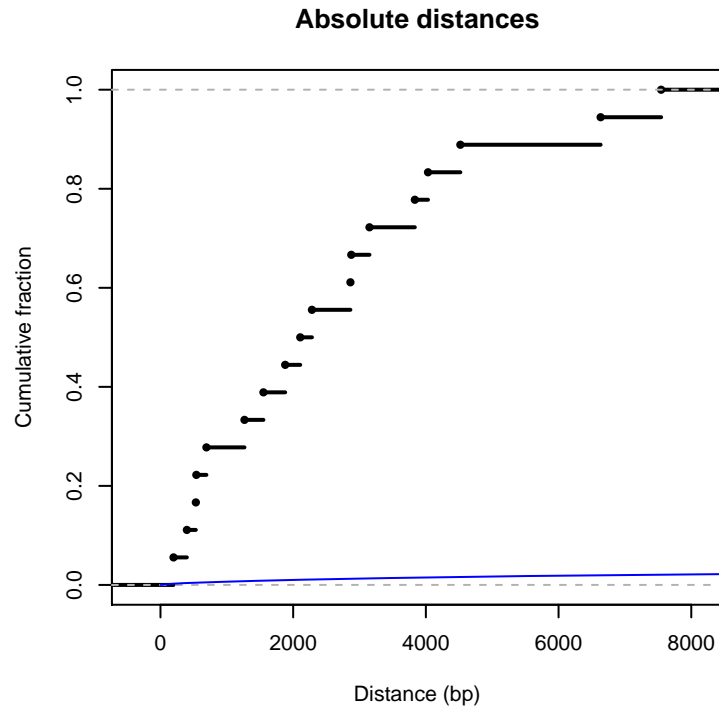
Query population : 149  
Reference population : 482  
Relative Ks p-value : 0.19723  
Relative ecdf deviation area : 0.02163  
Relative ecdf area correlation : -0.0813888  
Relative ecdf deviation area p-value : 0.08  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.11194e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.59457





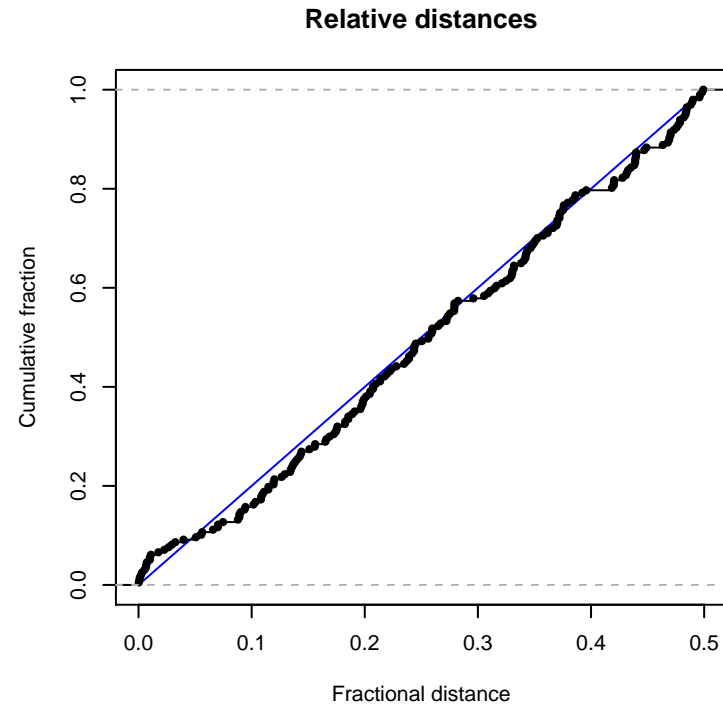
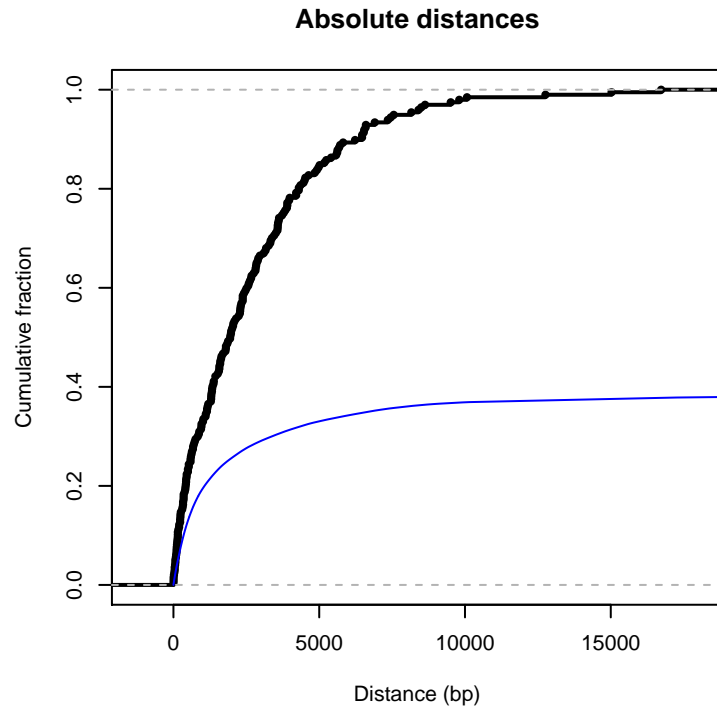
# pcontig\_032

Query population : 18  
Reference population : 23  
Relative Ks p-value : 0.0356577  
Relative ecdf deviation area : 0.0794916  
Relative ecdf area correlation : 0.319996  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 54.6507



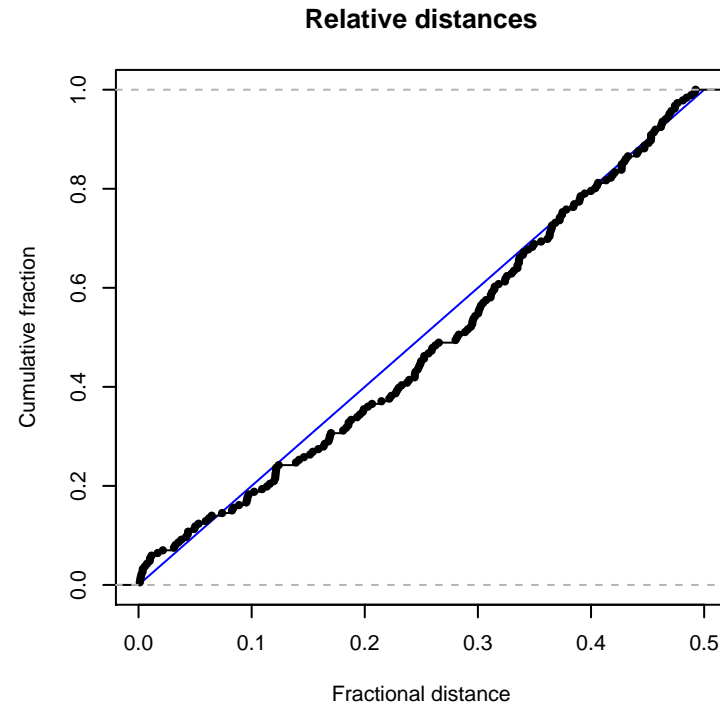
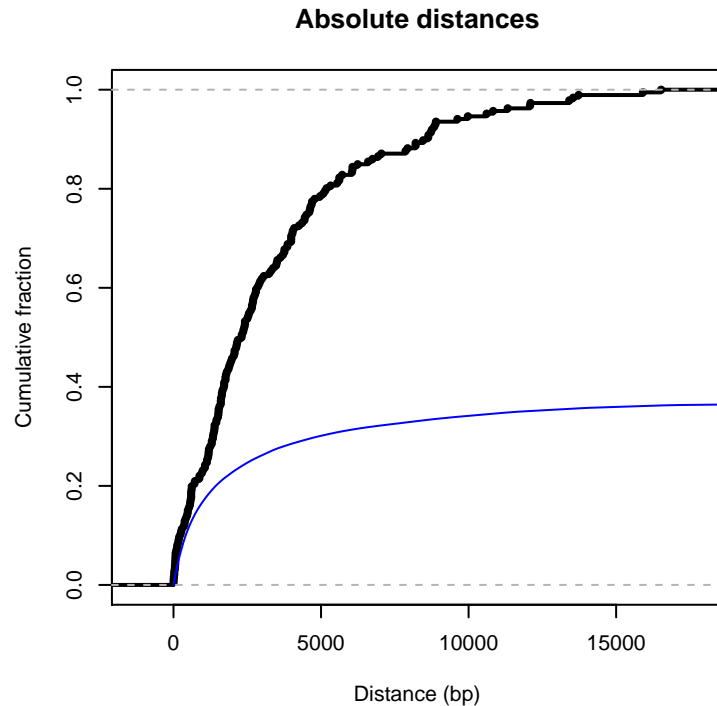
# pcontig\_033

Query population : 197  
Reference population : 637  
Relative Ks p-value : 0.735236  
Relative ecdf deviation area : 0.0118656  
Relative ecdf area correlation : -0.0370094  
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 : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 3.02432e-08  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.99793



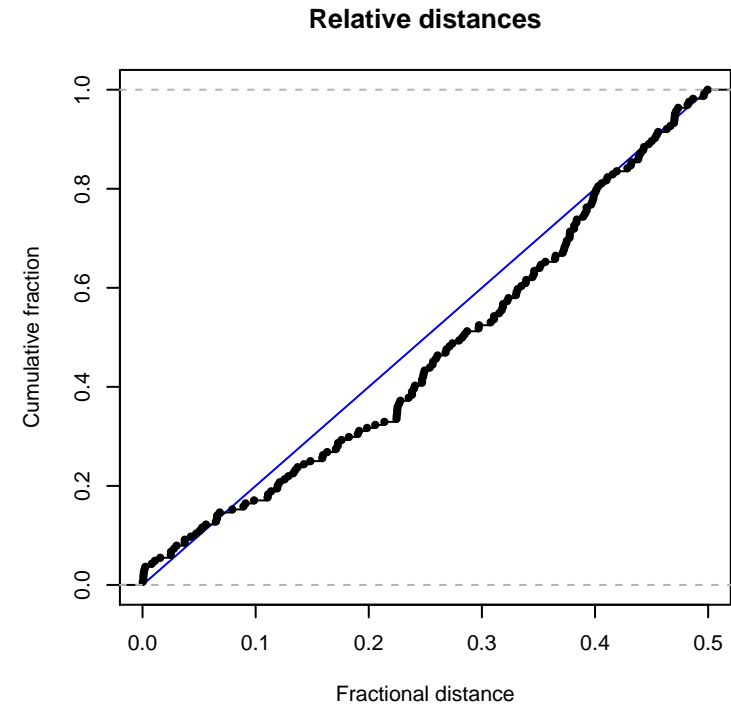
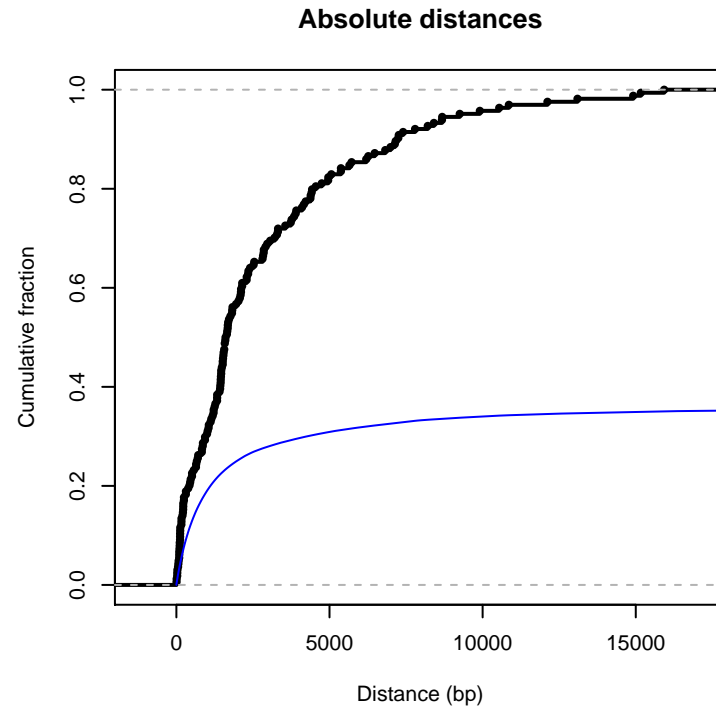
## pcontig\_034

Query population : 186  
Reference population : 579  
Relative Ks p-value : 0.25761  
Relative ecdf deviation area : 0.0137821  
Relative ecdf area correlation : -0.0441883  
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 : FALSE  
Projection test p-value : 3.49974e-05  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.74849



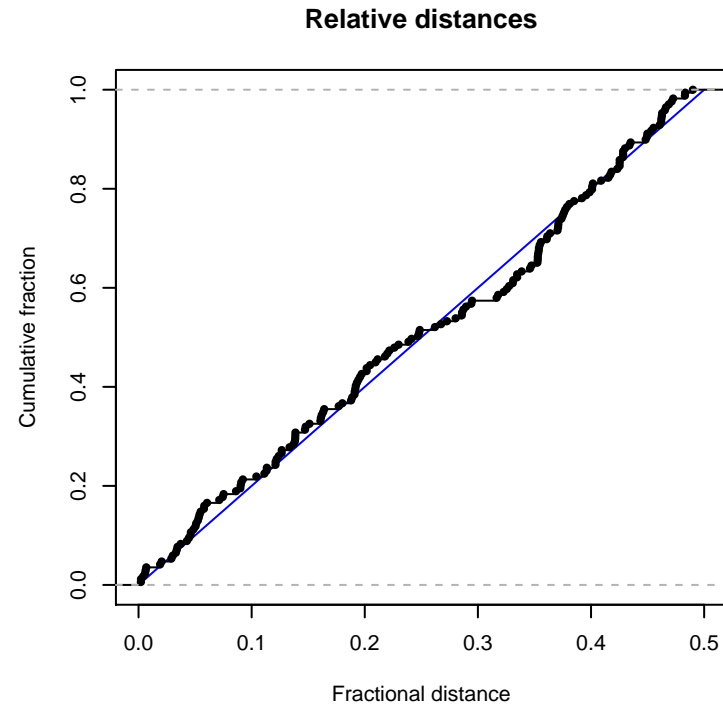
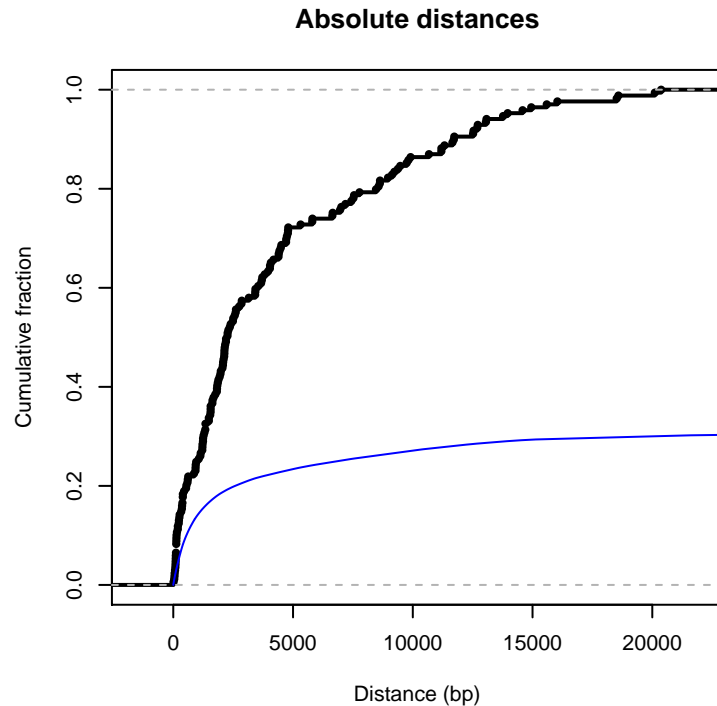
# pcontig\_035

Query population : 164  
Reference population : 688  
Relative Ks p-value : 0.0181814  
Relative ecdf deviation area : 0.0223827  
Relative ecdf area correlation : -0.0804408  
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 : 0.04  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 3.91997e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.84432



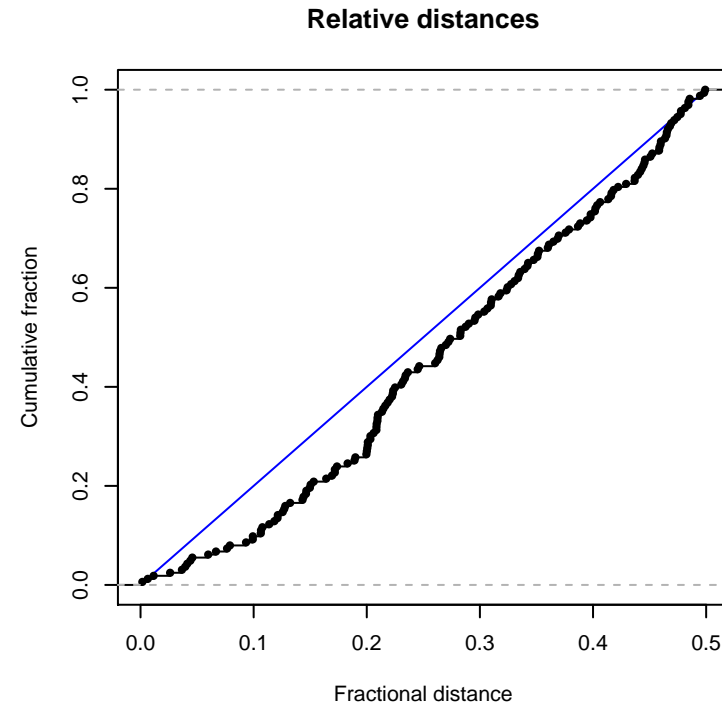
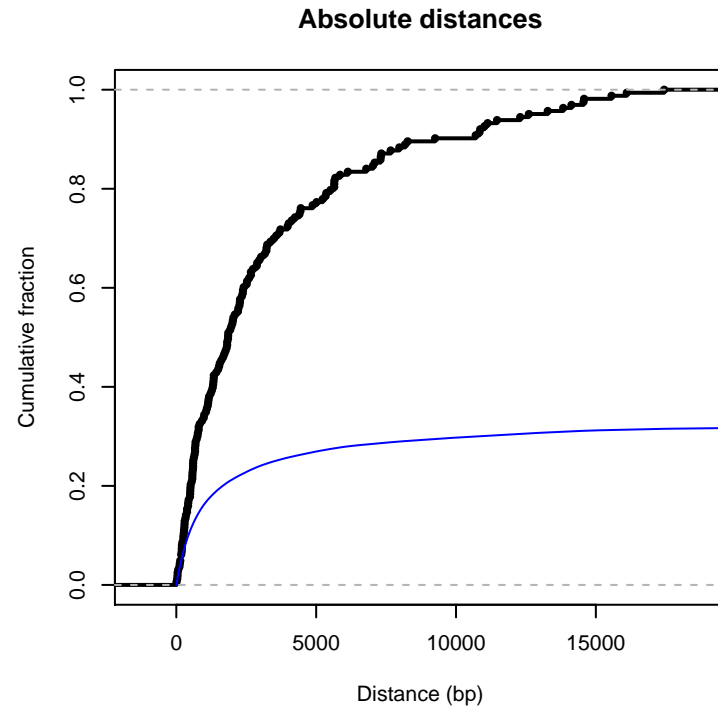
# pcontig\_036

Query population : 169  
Reference population : 488  
Relative Ks p-value : 0.571375  
Relative ecdf deviation area : 0.00863268  
Relative ecdf area correlation : 0.00333956  
Relative ecdf deviation area p-value : 0.71  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.67092e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.34473



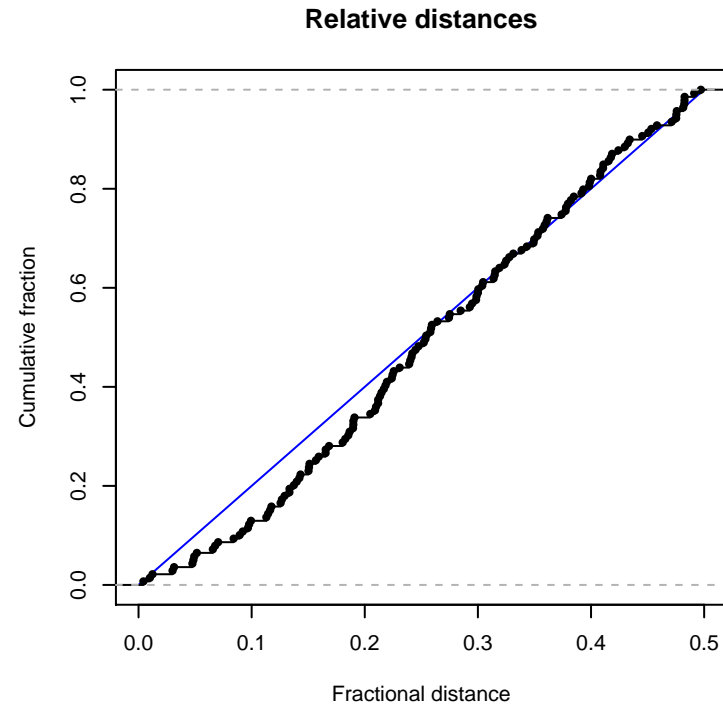
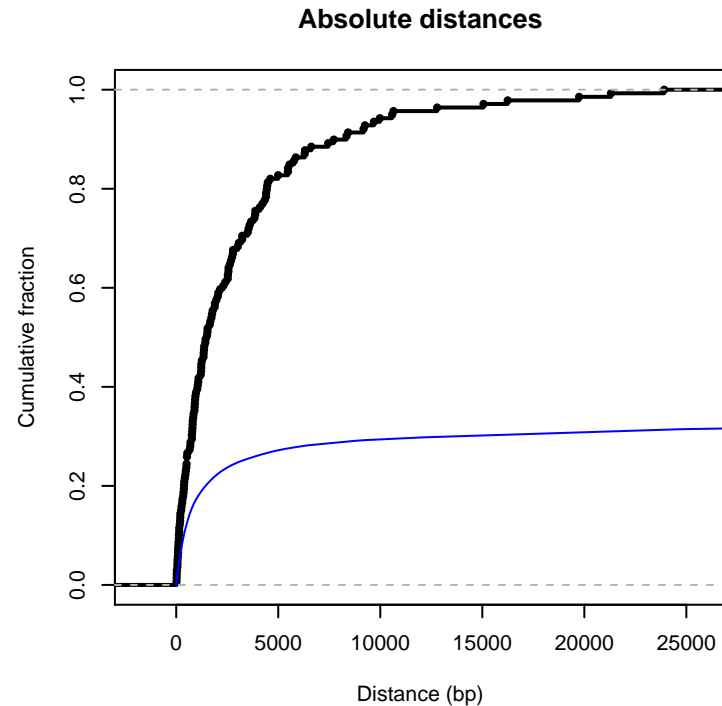
# pcontig\_037

Query population : 163  
Reference population : 562  
Relative Ks p-value : 0.00290245  
Relative ecdf deviation area : 0.0313854  
Relative ecdf area correlation : -0.123545  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.46756e-08  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.20881



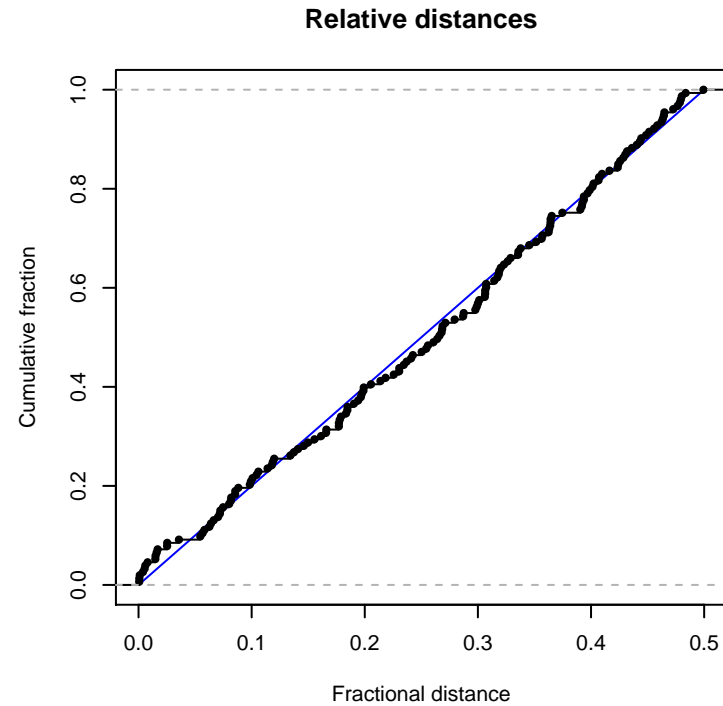
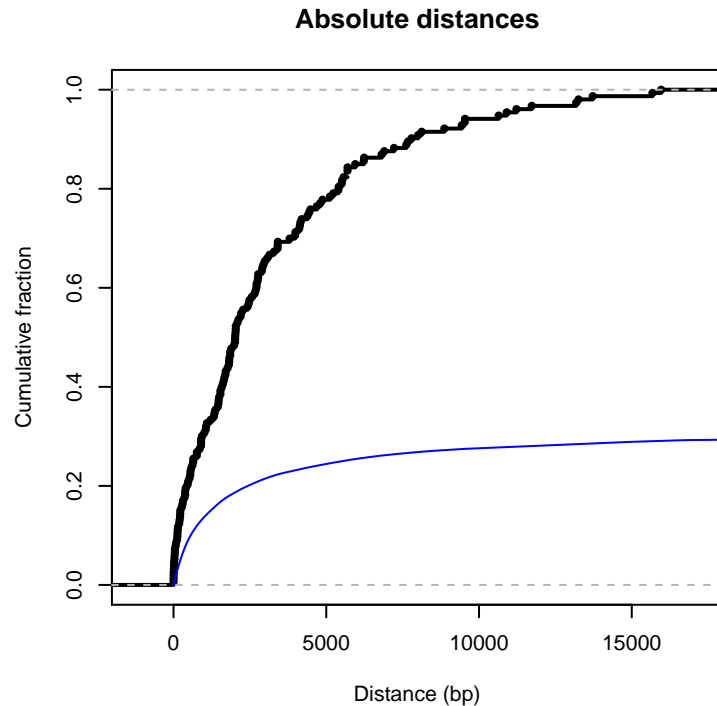
# pcontig\_039

Query population : 139  
Reference population : 658  
Relative Ks p-value : 0.150218  
Relative ecdf deviation area : 0.0164136  
Relative ecdf area correlation : -0.0529622  
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 : 2.05424e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.04198



# pcontig\_040

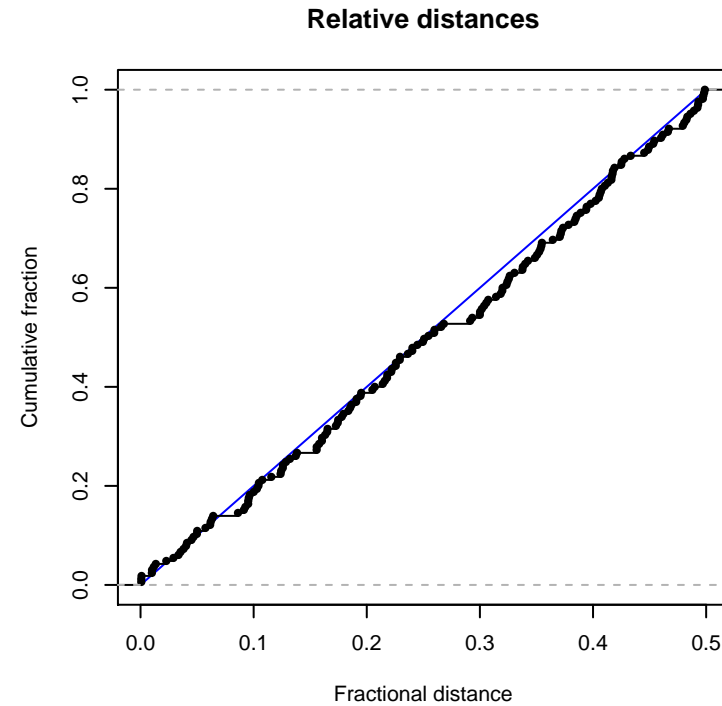
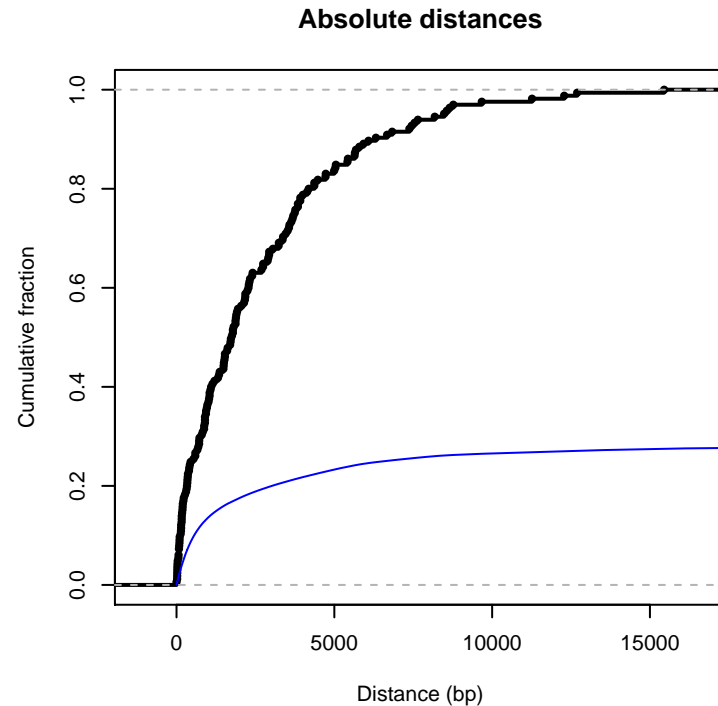
Query population : 153  
Reference population : 455  
Relative Ks p-value : 0.895346  
Relative ecdf deviation area : 0.00773744  
Relative ecdf area correlation : -0.0121141  
Relative ecdf deviation area p-value : 0.83  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 3.78944e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.5479





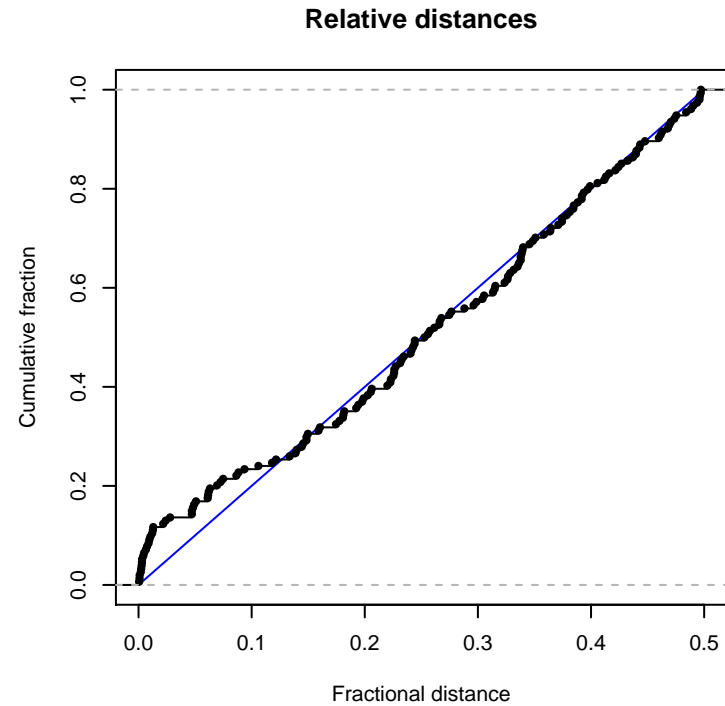
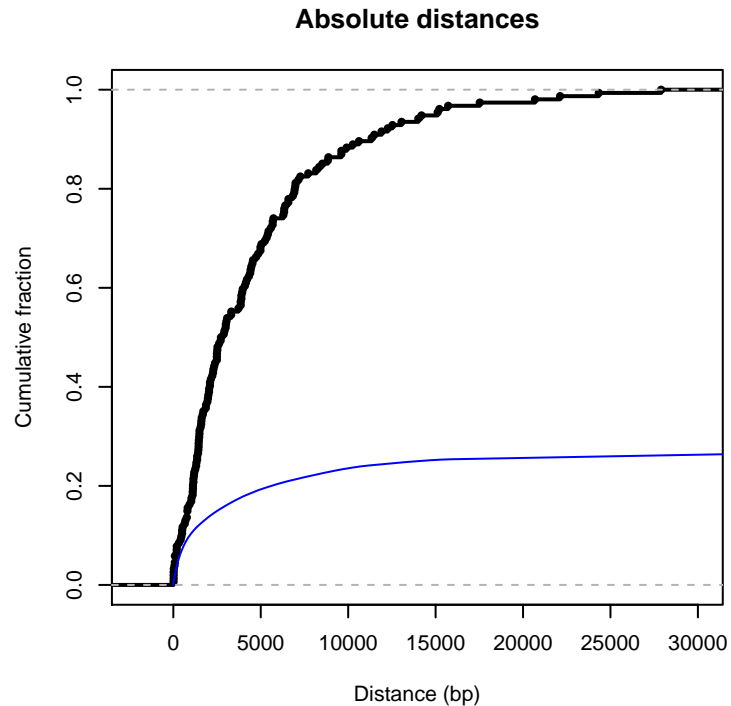
# pcontig\_041

Query population : 165  
Reference population : 476  
Relative Ks p-value : 0.582794  
Relative ecdf deviation area : 0.00976659  
Relative ecdf area correlation : -0.0392239  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.11022e-16  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.04055



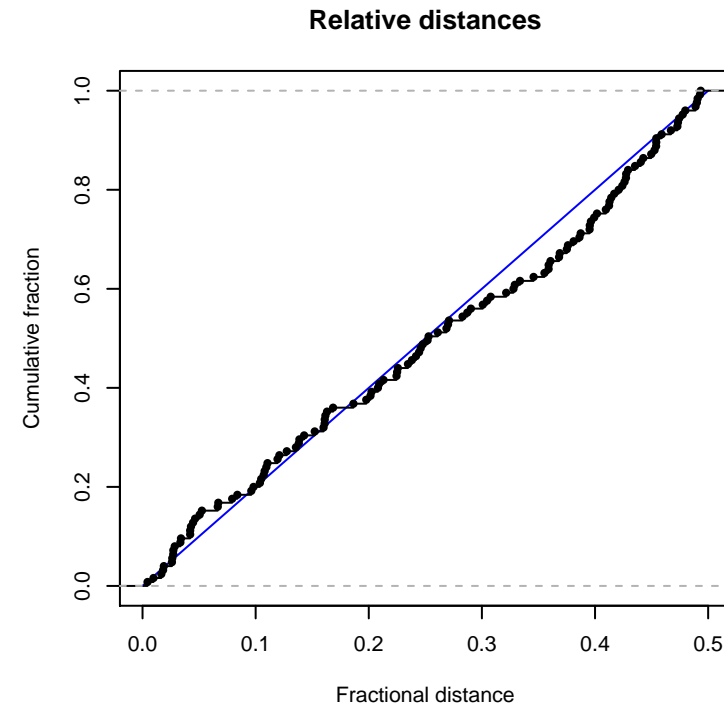
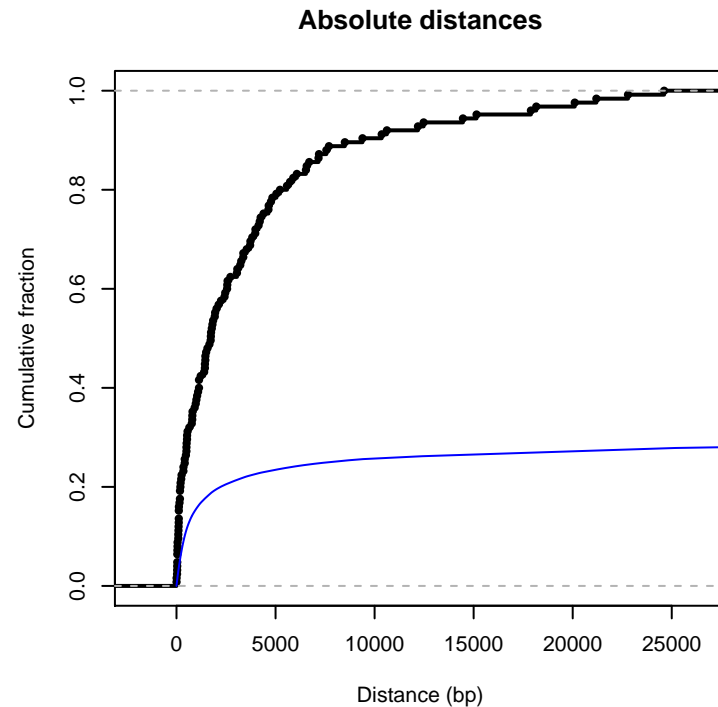
# pcontig\_042

Query population : 154  
Reference population : 408  
Relative Ks p-value : 0.157148  
Relative ecdf deviation area : 0.0130654  
Relative ecdf area correlation : 0.00291698  
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 : FALSE  
Projection test p-value : 0.00760069  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.66383



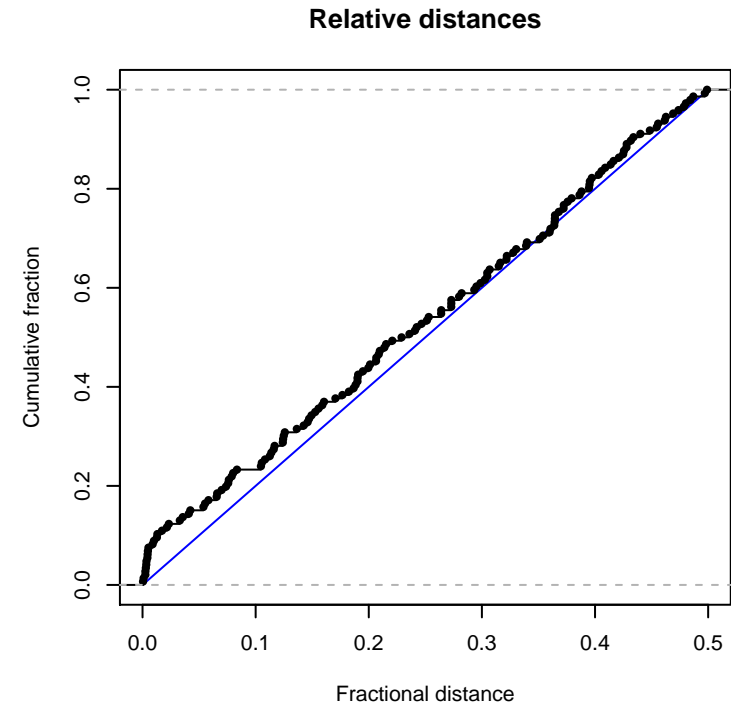
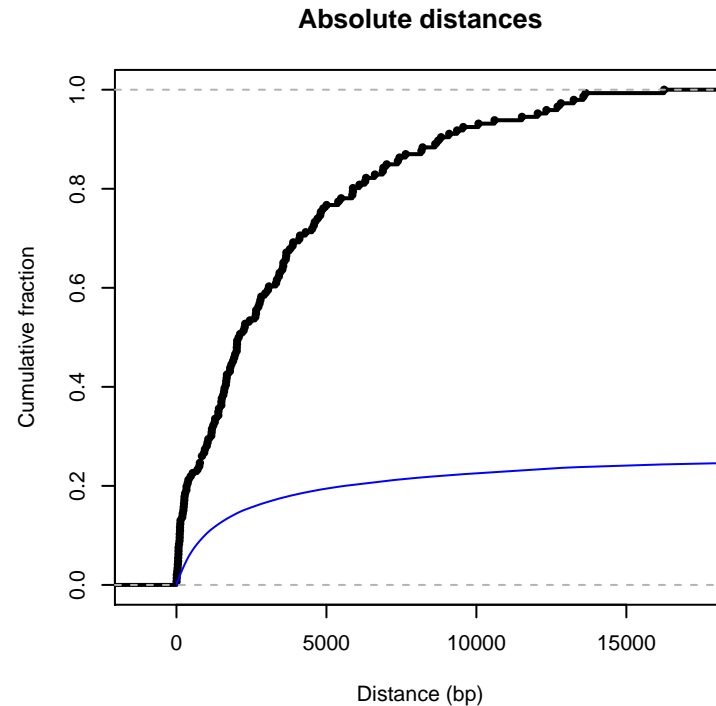
# pcontig\_043

Query population : 125  
Reference population : 632  
Relative Ks p-value : 0.305834  
Relative ecdf deviation area : 0.0145318  
Relative ecdf area correlation : -0.0354558  
Relative ecdf deviation area p-value : 0.33  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.09446e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.73239



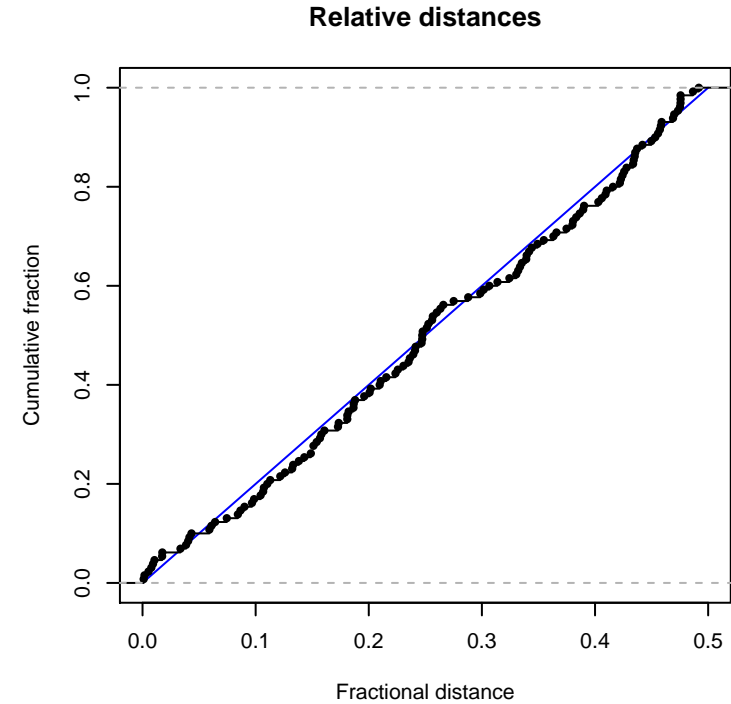
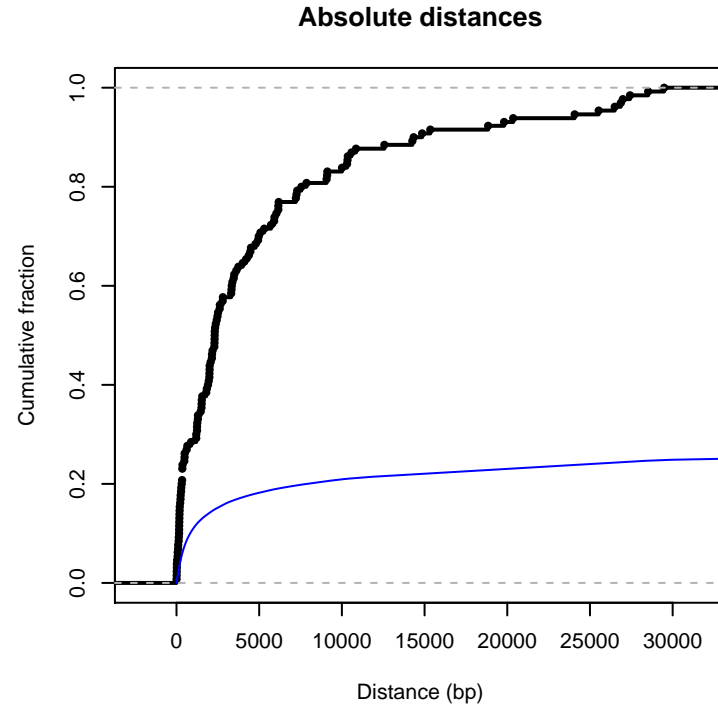
# pcontig\_044

Query population : 146  
Reference population : 309  
Relative Ks p-value : 0.355659  
Relative ecdf deviation area : 0.0147548  
Relative ecdf area correlation : 0.058203  
Relative ecdf deviation area p-value : 0.18  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.48104e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.2315



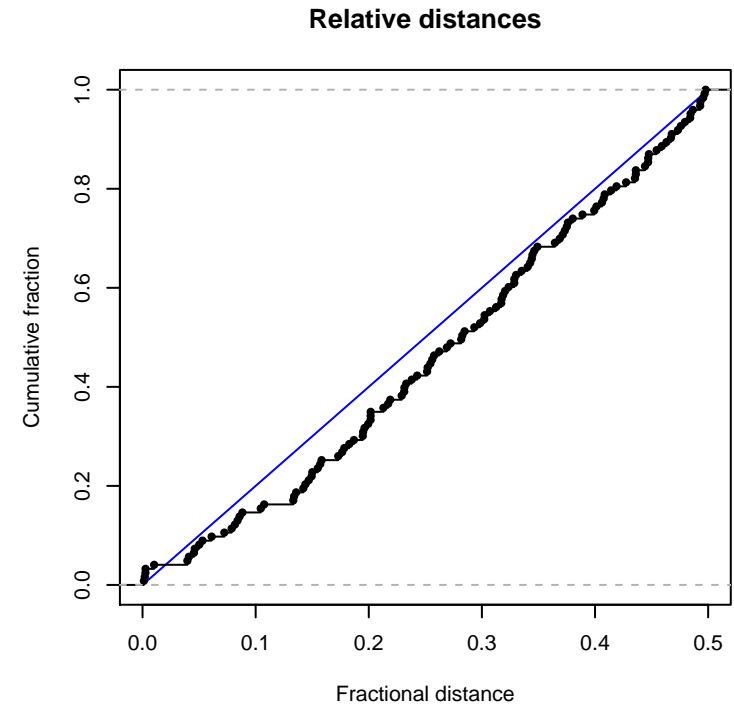
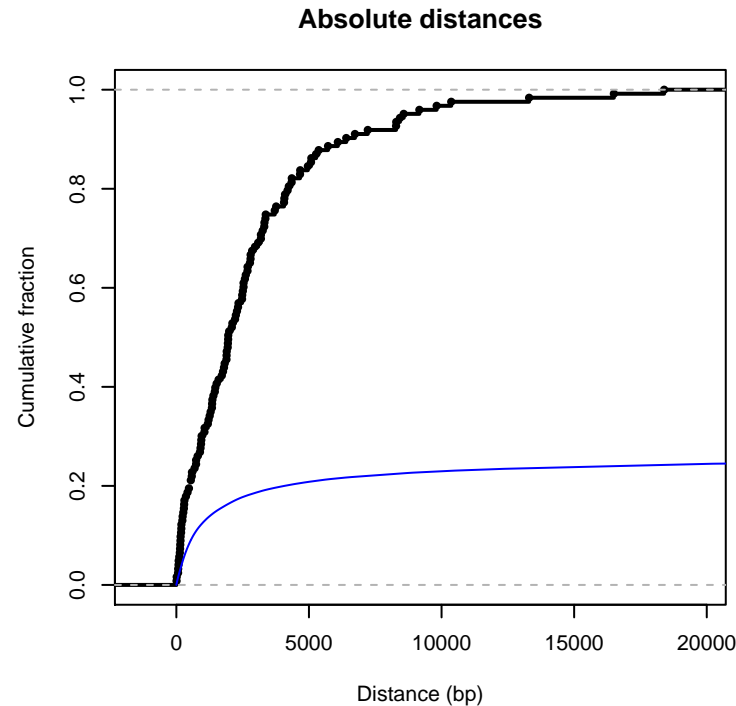
# pcontig\_045

Query population : 130  
Reference population : 381  
Relative Ks p-value : 0.951527  
Relative ecdf deviation area : 0.0101626  
Relative ecdf area correlation : -0.0303076  
Relative ecdf deviation area p-value : 0.64  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 3.29958e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.30051



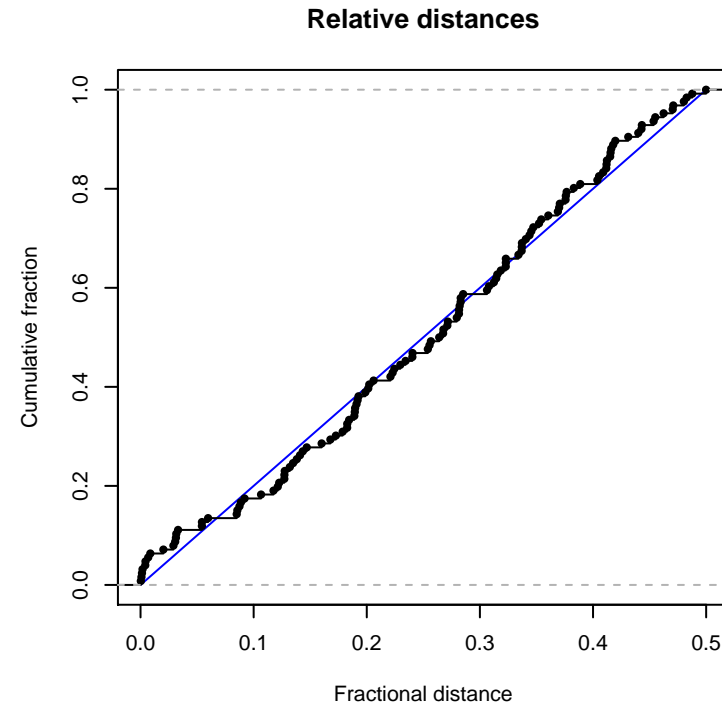
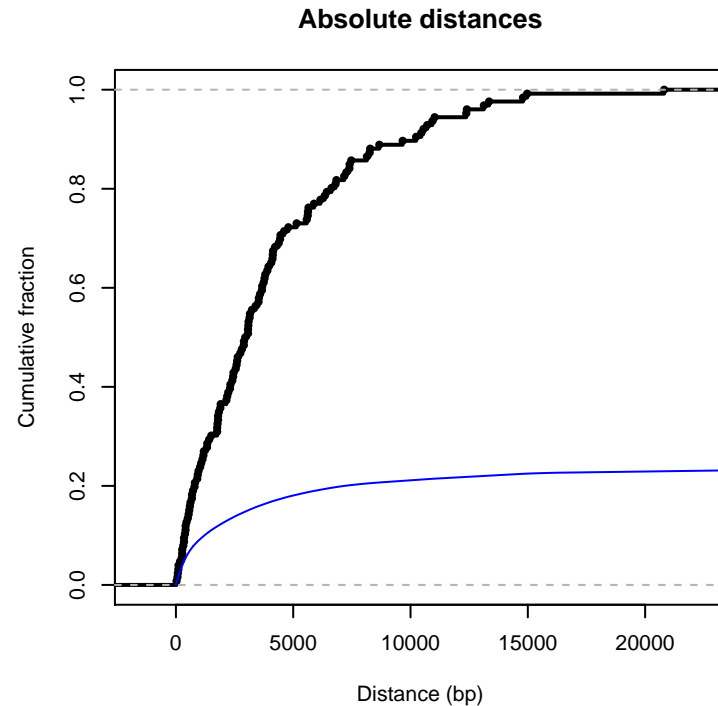
# pcontig\_046

Query population : 123  
Reference population : 404  
Relative Ks p-value : 0.140302  
Relative ecdf deviation area : 0.0251202  
Relative ecdf area correlation : -0.098581  
Relative ecdf deviation area p-value : 0.07  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 9.68114e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.10467



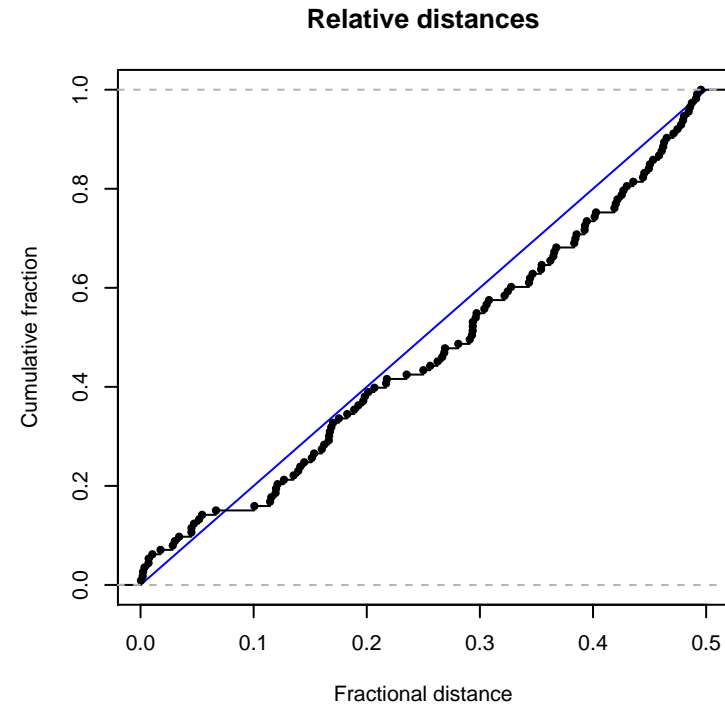
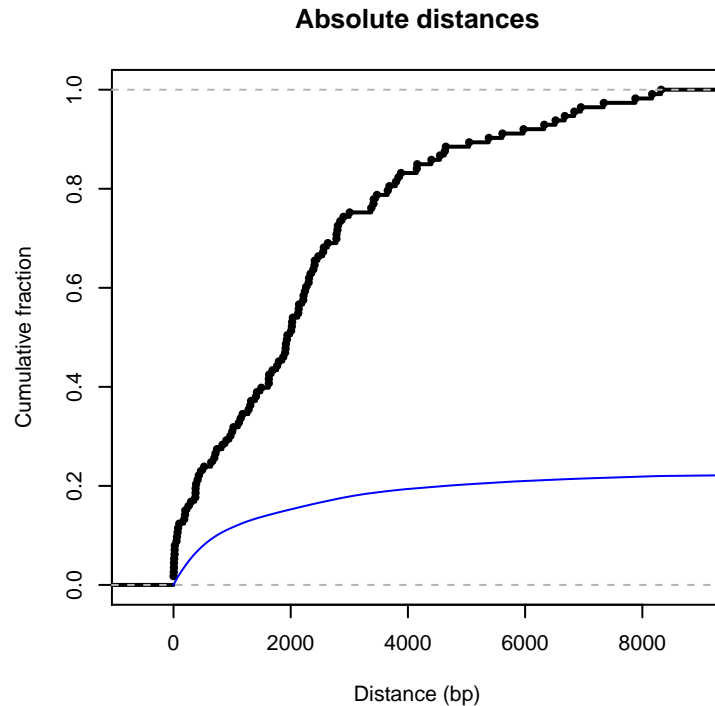
# pcontig\_047

Query population : 126  
Reference population : 313  
Relative Ks p-value : 0.800876  
Relative ecdf deviation area : 0.0117646  
Relative ecdf area correlation : -0.00241471  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.64008e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.59443



# pcontig\_048

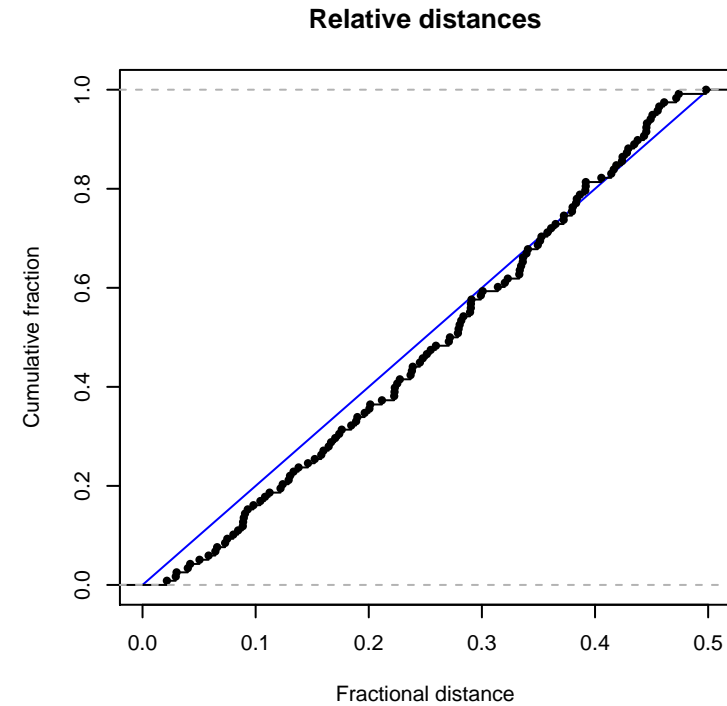
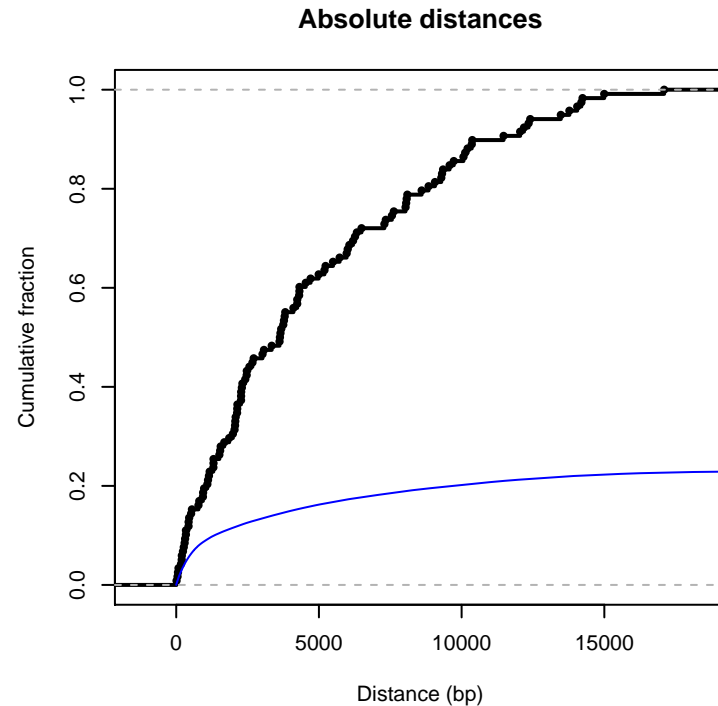
Query population : 113  
Reference population : 382  
Relative Ks p-value : 0.256161  
Relative ecdf deviation area : 0.0236717  
Relative ecdf area correlation : -0.0798598  
Relative ecdf deviation area p-value : 0.09  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.04226e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.25098





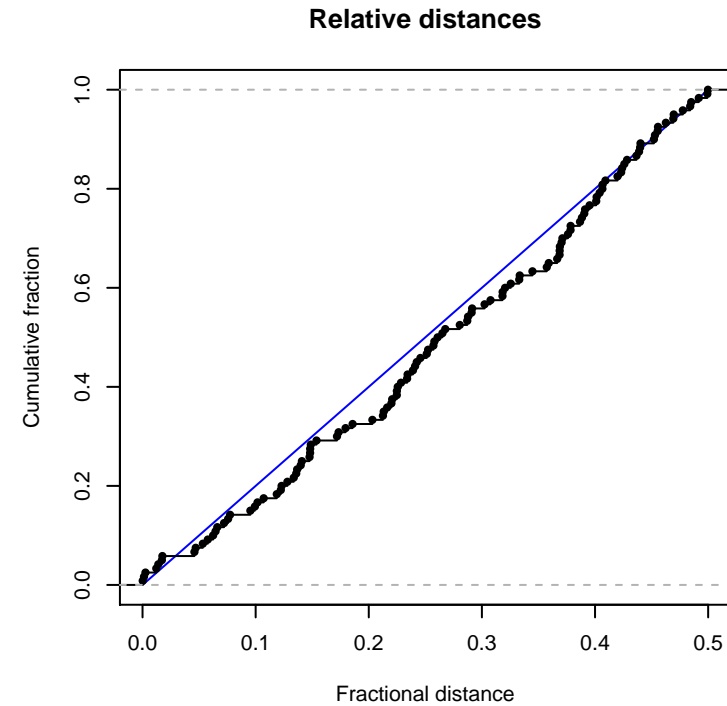
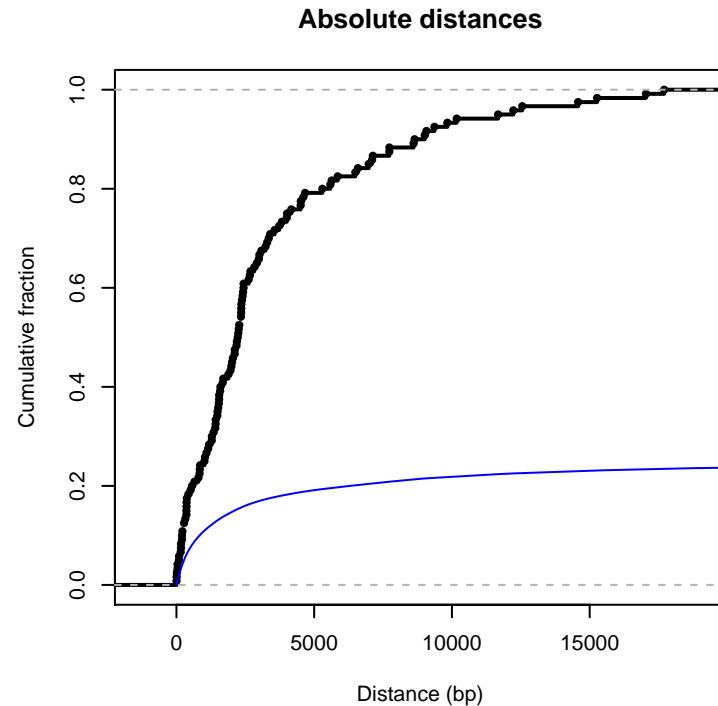
# pcontig\_049

Query population : 118  
Reference population : 336  
Relative Ks p-value : 0.573166  
Relative ecdf deviation area : 0.0182685  
Relative ecdf area correlation : -0.0515127  
Relative ecdf deviation area p-value : 0.22  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.81291e-08  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.07546



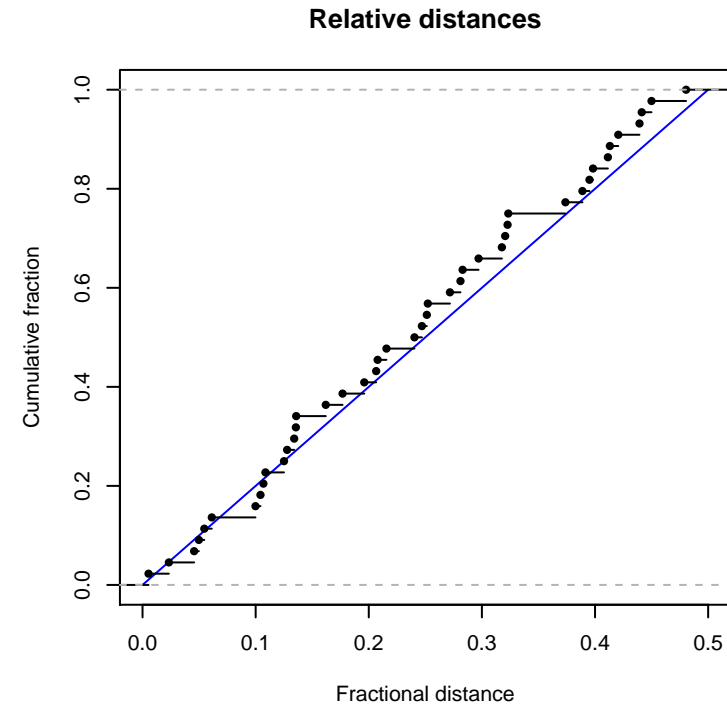
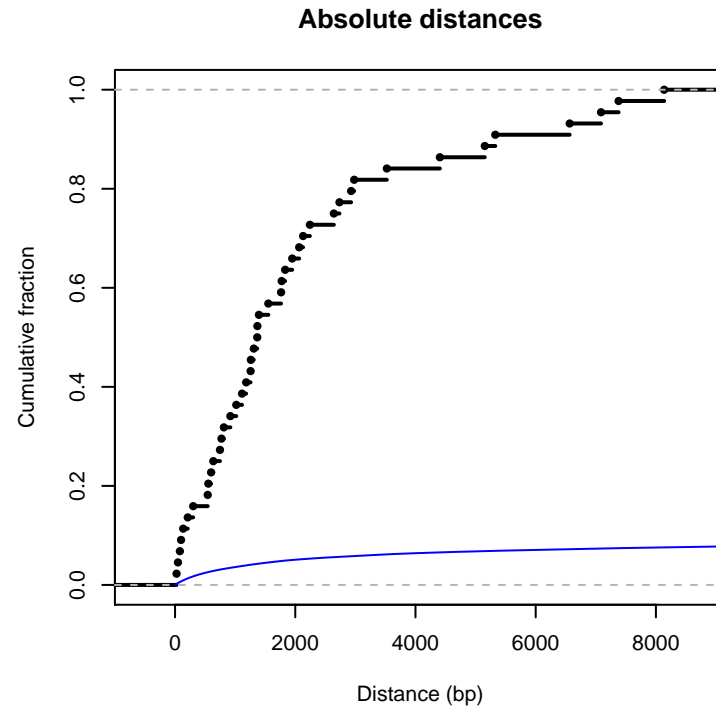
# pcontig\_050

Query population : 120  
Reference population : 417  
Relative Ks p-value : 0.265112  
Relative ecdf deviation area : 0.0171481  
Relative ecdf area correlation : -0.0660574  
Relative ecdf deviation area p-value : 0.28  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.01918e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.45115



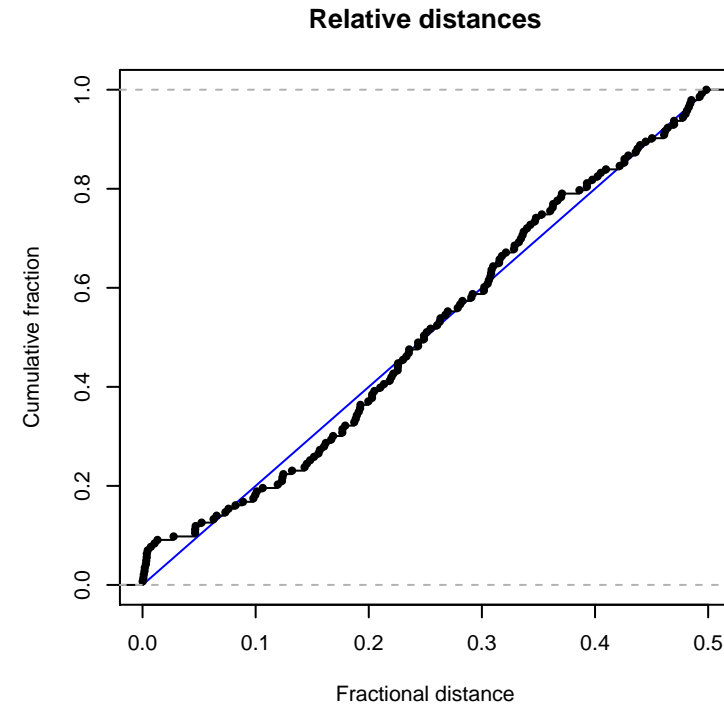
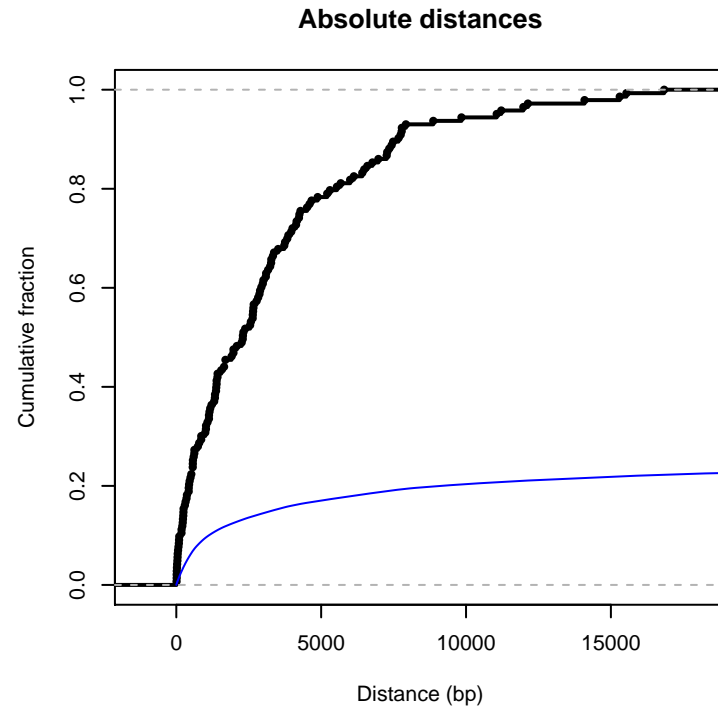
# pcontig\_051

Query population : 44  
Reference population : 134  
Relative Ks p-value : 0.696276  
Relative ecdf deviation area : 0.0163121  
Relative ecdf area correlation : 0.0452253  
Relative ecdf deviation area p-value : 0.73  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 12.1482



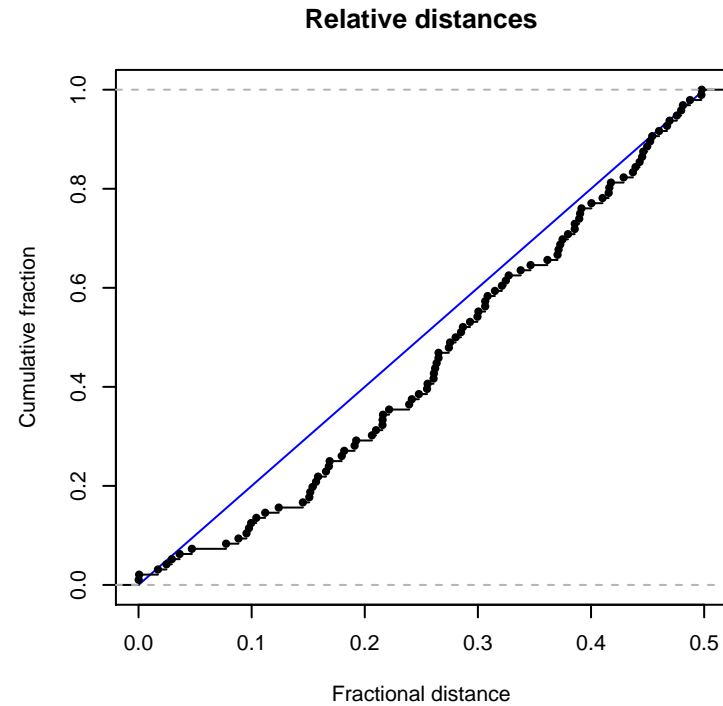
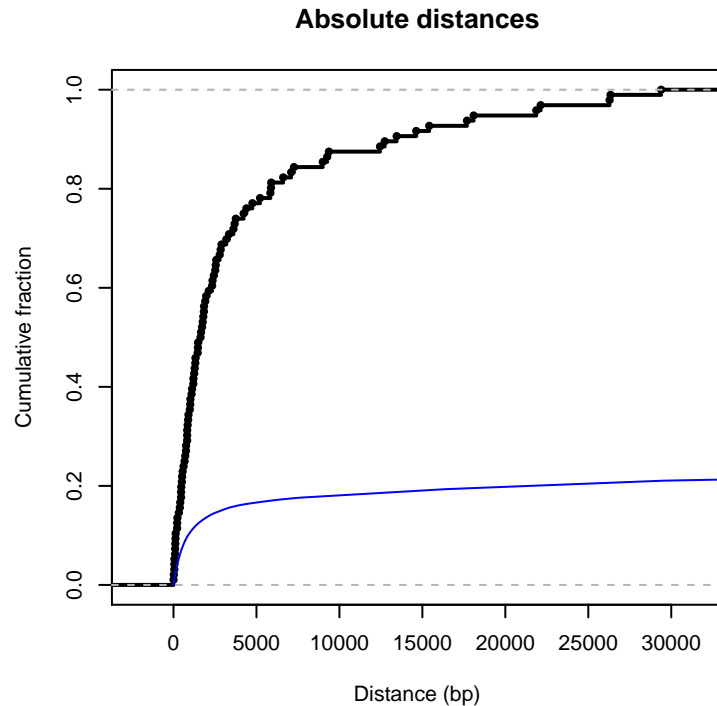
# pcontig\_052

Query population : 143  
Reference population : 303  
Relative Ks p-value : 0.591819  
Relative ecdf deviation area : 0.0107068  
Relative ecdf area correlation : -0.000620803  
Relative ecdf deviation area p-value : 0.63  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.22045e-16  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.97978



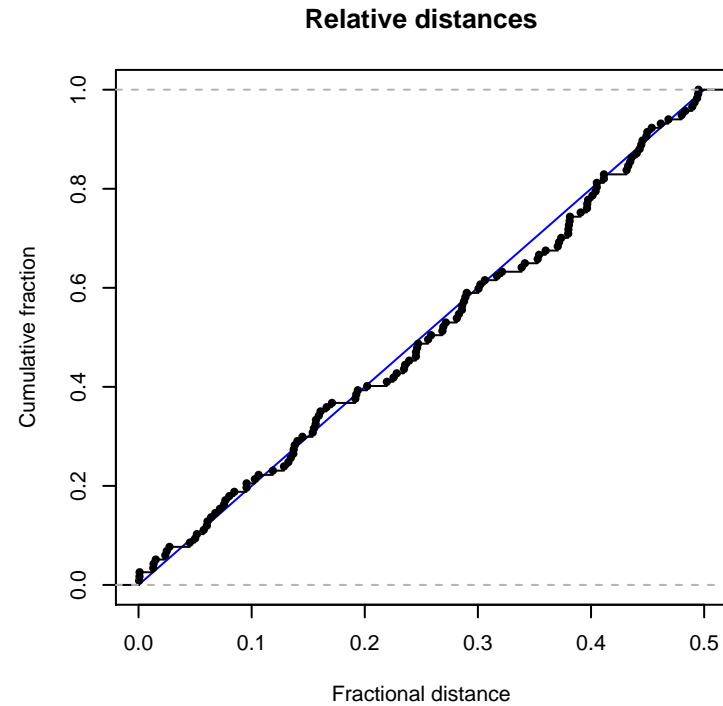
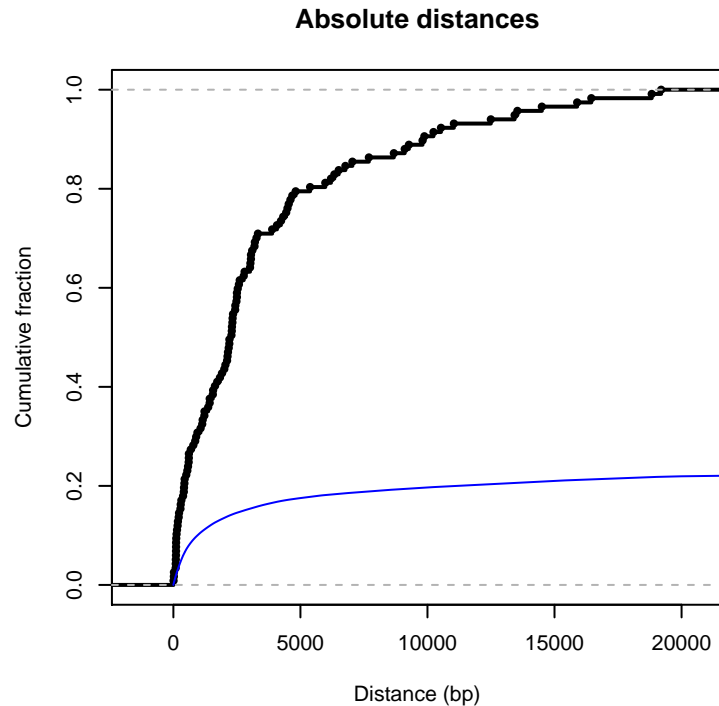
# pcontig\_054

Query population : 96  
Reference population : 378  
Relative Ks p-value : 0.0541223  
Relative ecdf deviation area : 0.0307096  
Relative ecdf area correlation : -0.123166  
Relative ecdf deviation area p-value : 0.02  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 9.88518e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.53229



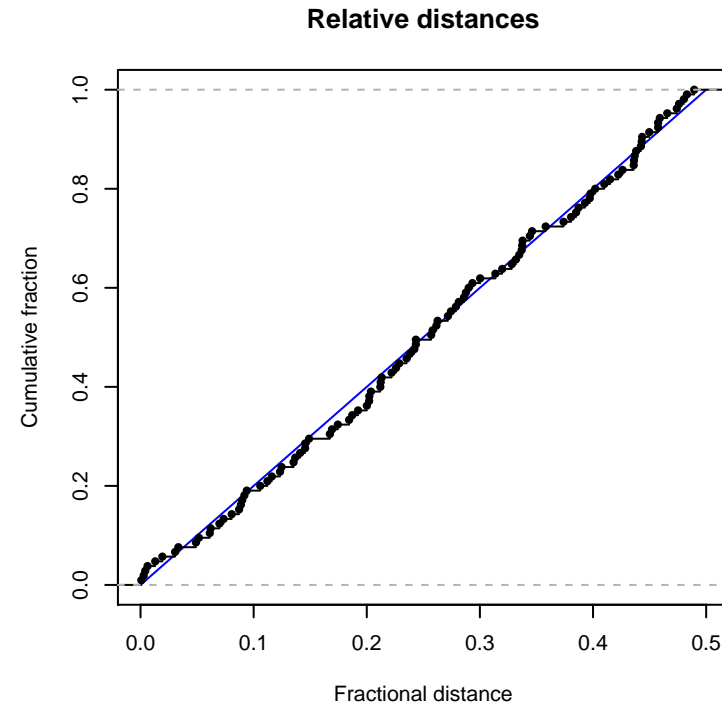
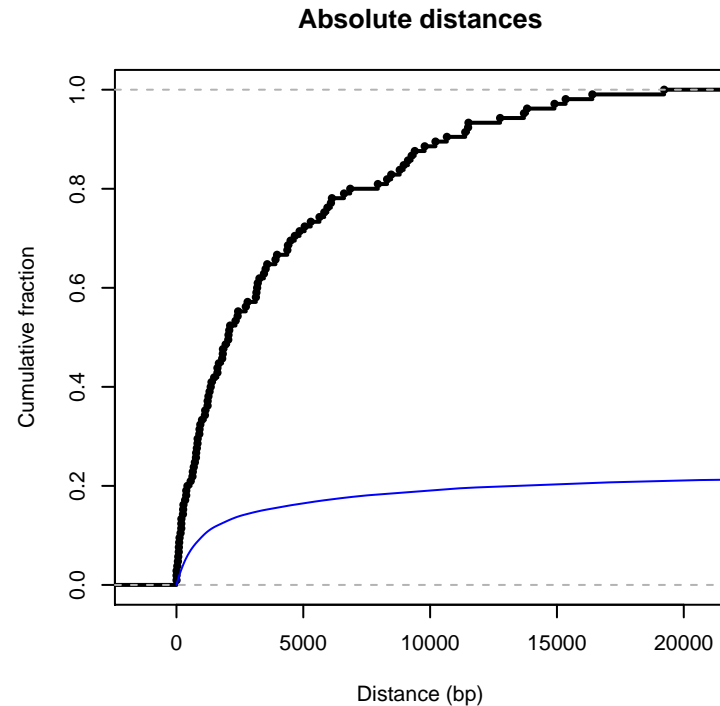
# pcontig\_055

Query population : 117  
Reference population : 375  
Relative Ks p-value : 0.688391  
Relative ecdf deviation area : 0.00888732  
Relative ecdf area correlation : -0.0216813  
Relative ecdf deviation area p-value : 0.79  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 9.19481e-09  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.00263



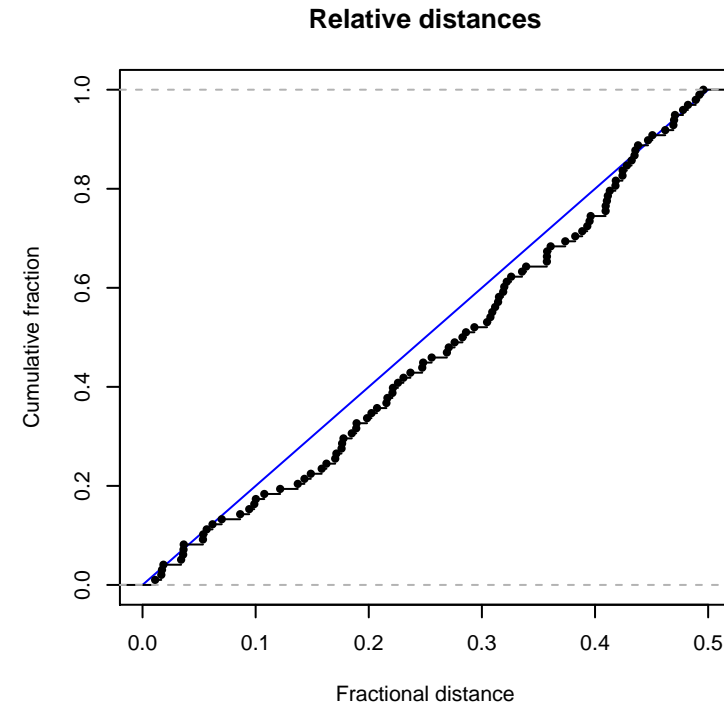
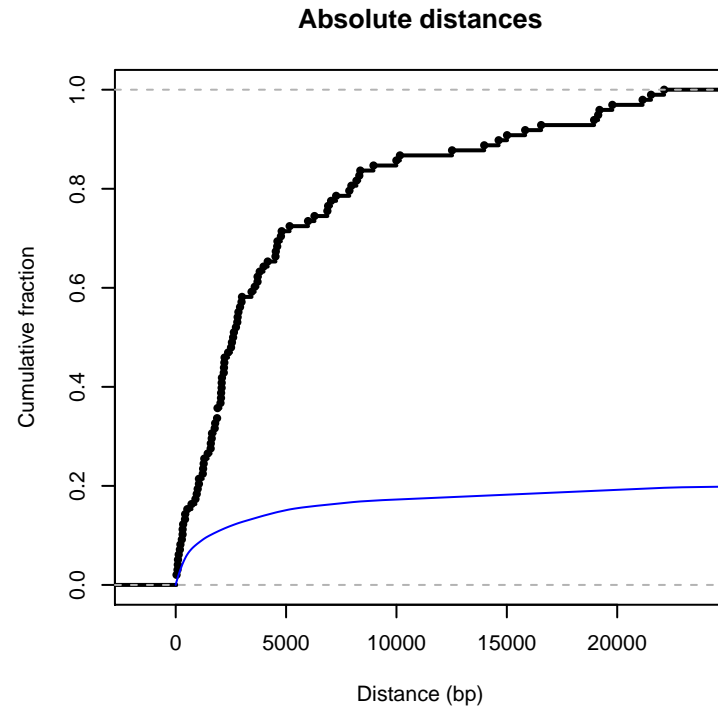
# pcontig\_056

Query population : 105  
Reference population : 329  
Relative Ks p-value : 0.970299  
Relative ecdf deviation area : 0.00758216  
Relative ecdf area correlation : -0.0168833  
Relative ecdf deviation area p-value : 0.89  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.12377e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.98814



# pcontig\_057

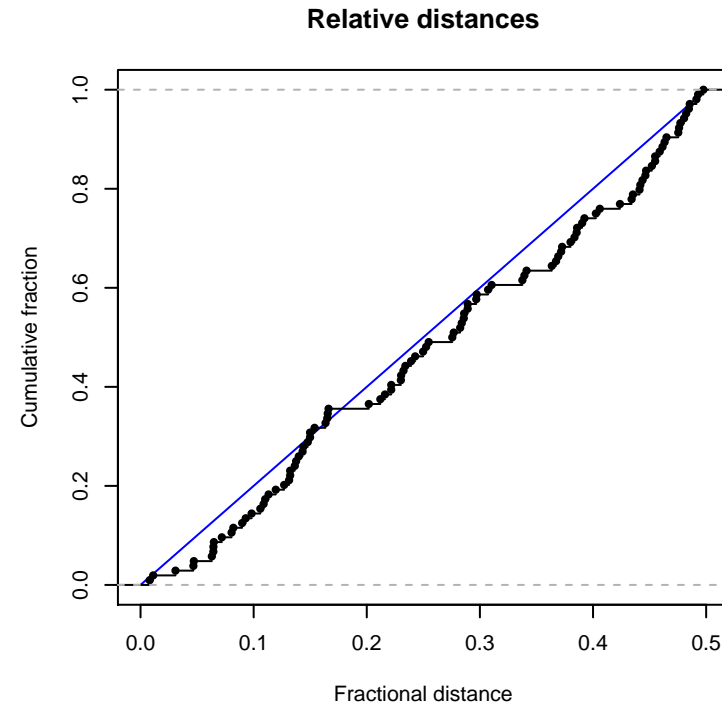
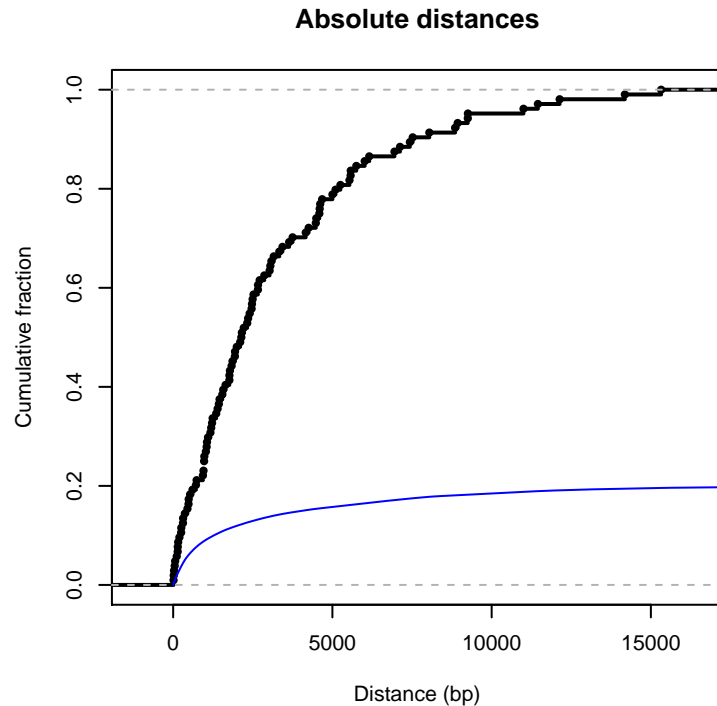
Query population : 98  
Reference population : 305  
Relative Ks p-value : 0.30989  
Relative ecdf deviation area : 0.0217169  
Relative ecdf area correlation : -0.0857552  
Relative ecdf deviation area p-value : 0.11  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.9695e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.92186





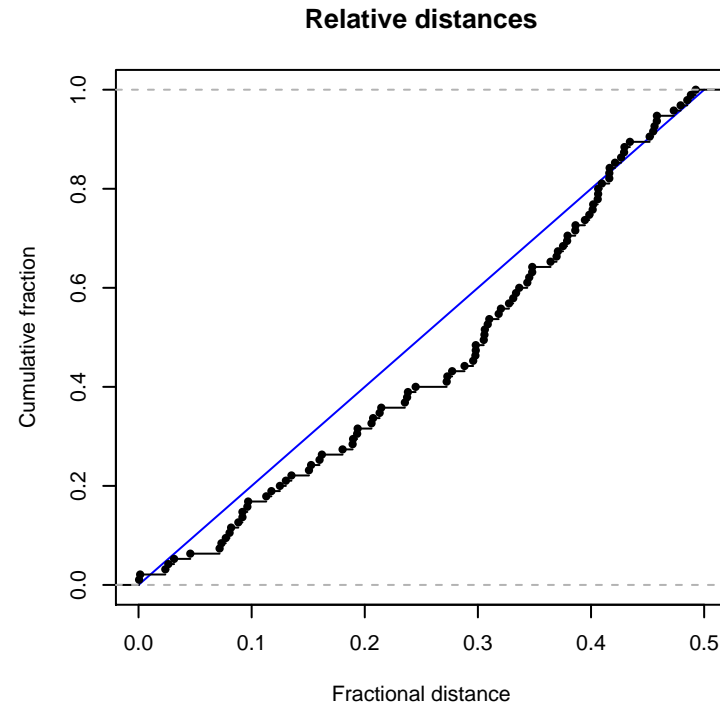
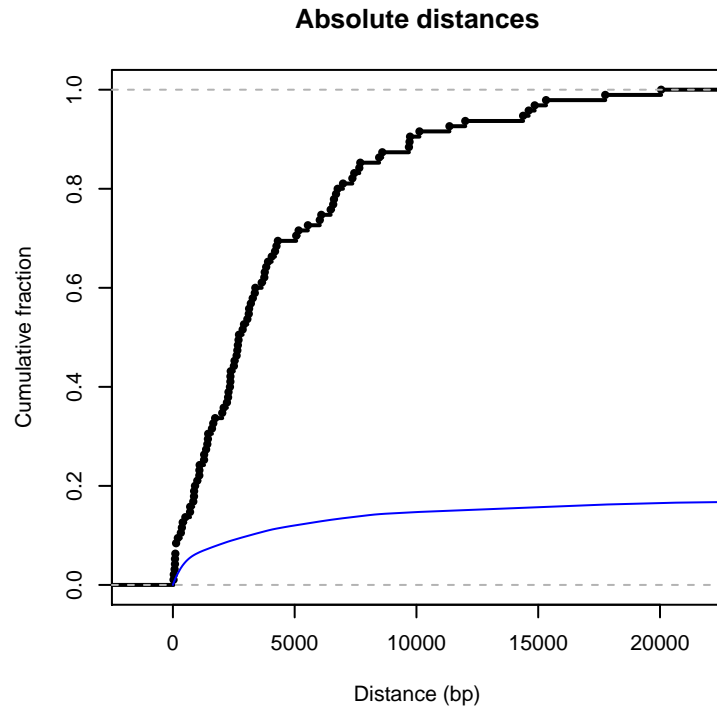
## pcontig\_058

Query population : 104  
Reference population : 308  
Relative Ks p-value : 0.260485  
Relative ecdf deviation area : 0.021573  
Relative ecdf area correlation : -0.0859691  
Relative ecdf deviation area p-value : 0.16  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 8.44436e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.78227



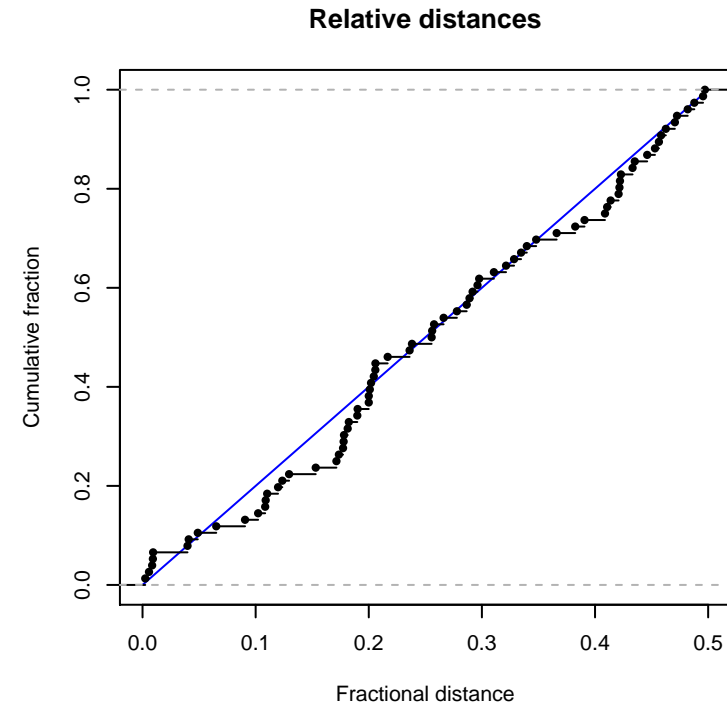
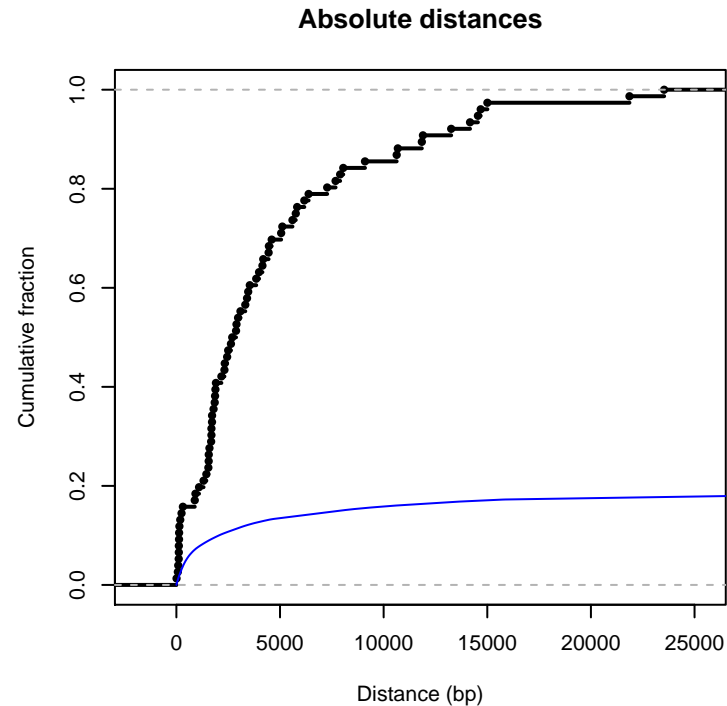
# pcontig\_059

Query population : 95  
Reference population : 235  
Relative Ks p-value : 0.0255357  
Relative ecdf deviation area : 0.030366  
Relative ecdf area correlation : -0.114931  
Relative ecdf deviation area p-value : 0.05  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.70761e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.50649



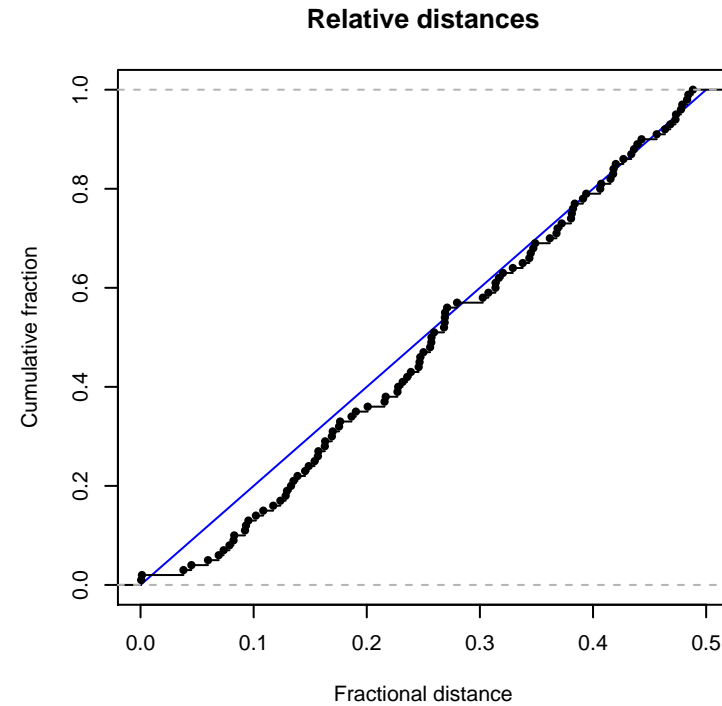
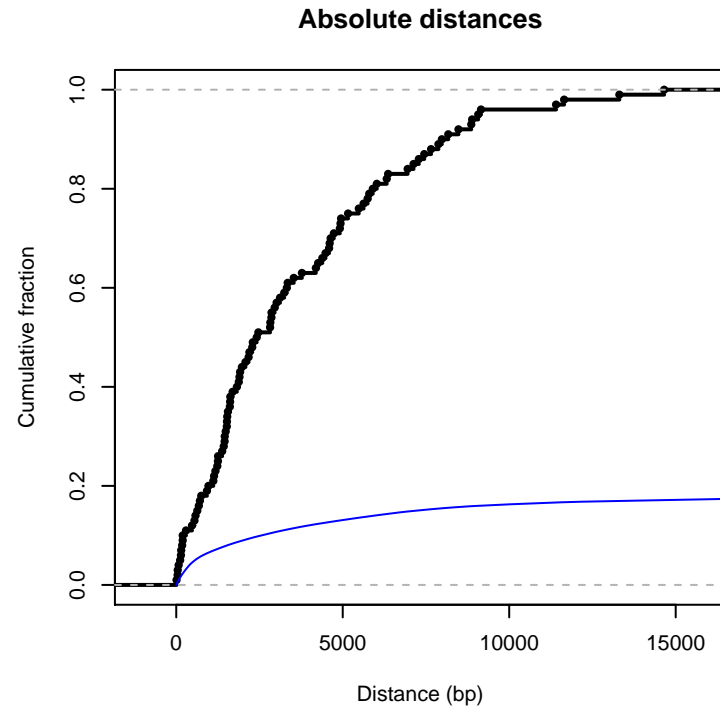
# pcontig\_060

Query population : 76  
Reference population : 261  
Relative Ks p-value : 0.337024  
Relative ecdf deviation area : 0.0142165  
Relative ecdf area correlation : -0.0460602  
Relative ecdf deviation area p-value : 0.54  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.24558e-05  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.99945



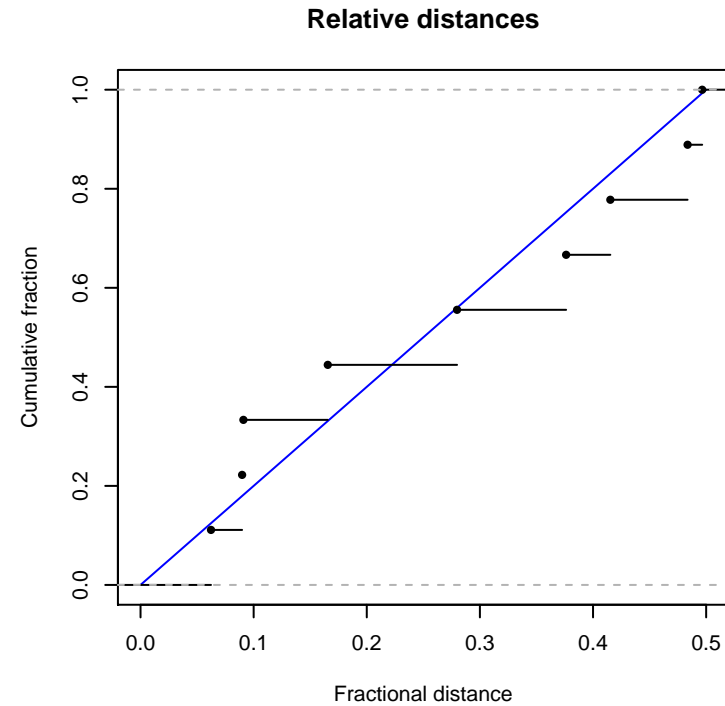
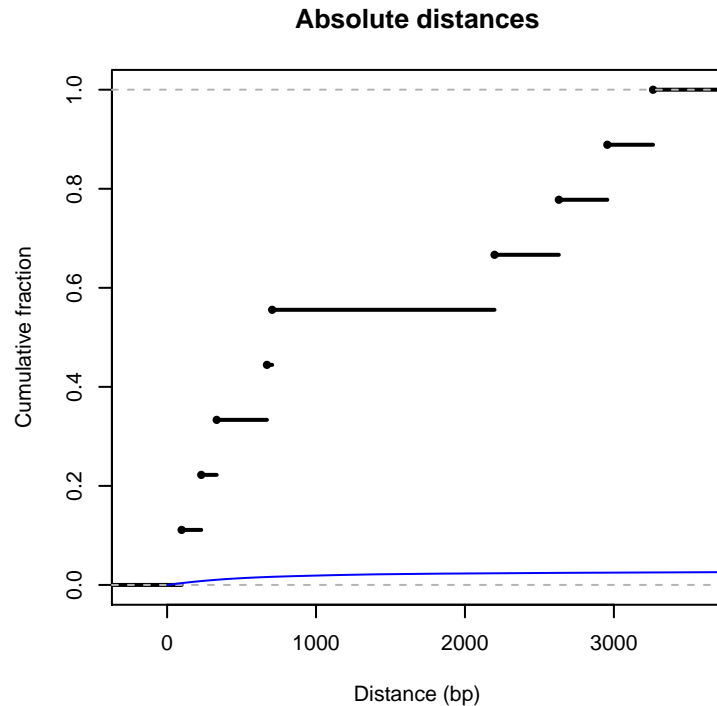
# pcontig\_062

Query population : 100  
Reference population : 249  
Relative Ks p-value : 0.418572  
Relative ecdf deviation area : 0.0176339  
Relative ecdf area correlation : -0.0658251  
Relative ecdf deviation area p-value : 0.31  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.23019e-08  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.93925



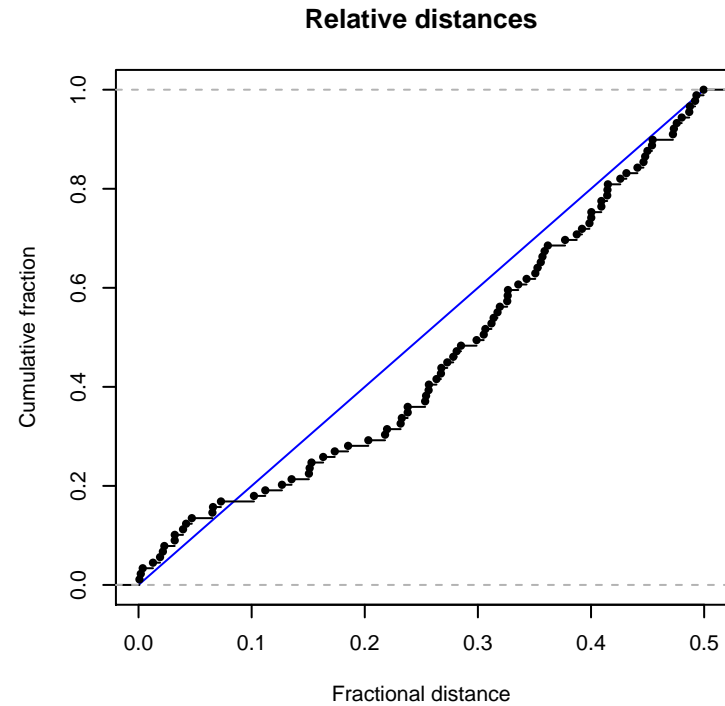
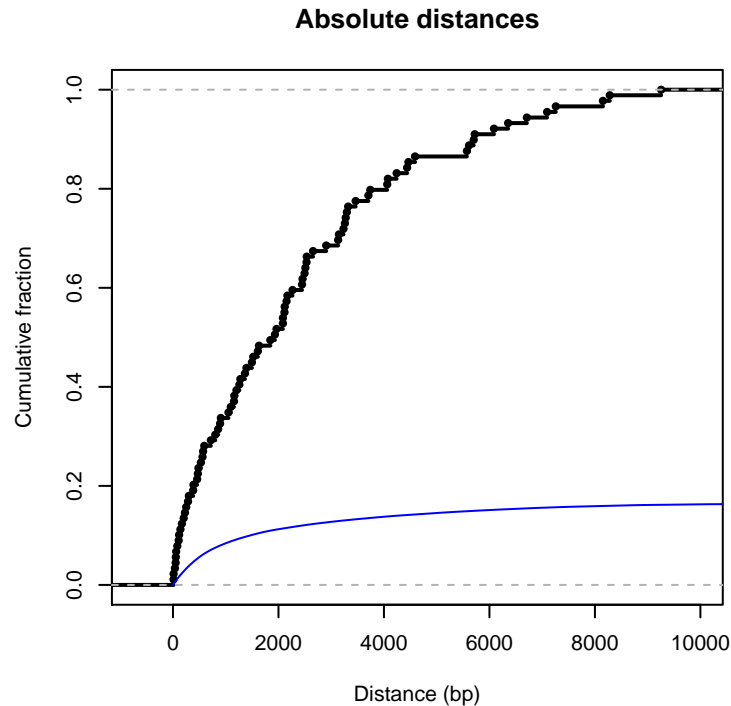
# pcontig\_063

Query population : 9  
Reference population : 69  
Relative Ks p-value : 0.813014  
Relative ecdf deviation area : 0.0406735  
Relative ecdf area correlation : -0.0933285  
Relative ecdf deviation area p-value : 0.61  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.39824e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 33.3874



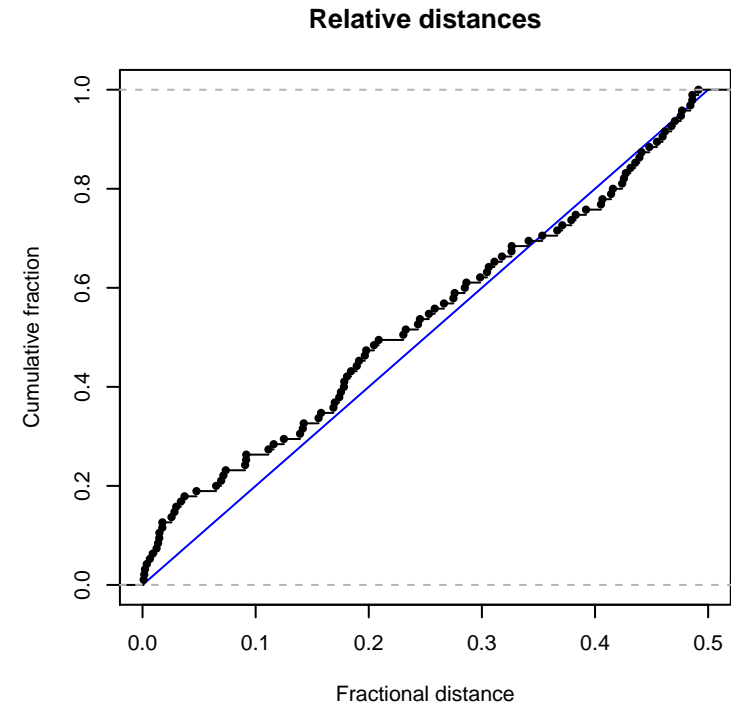
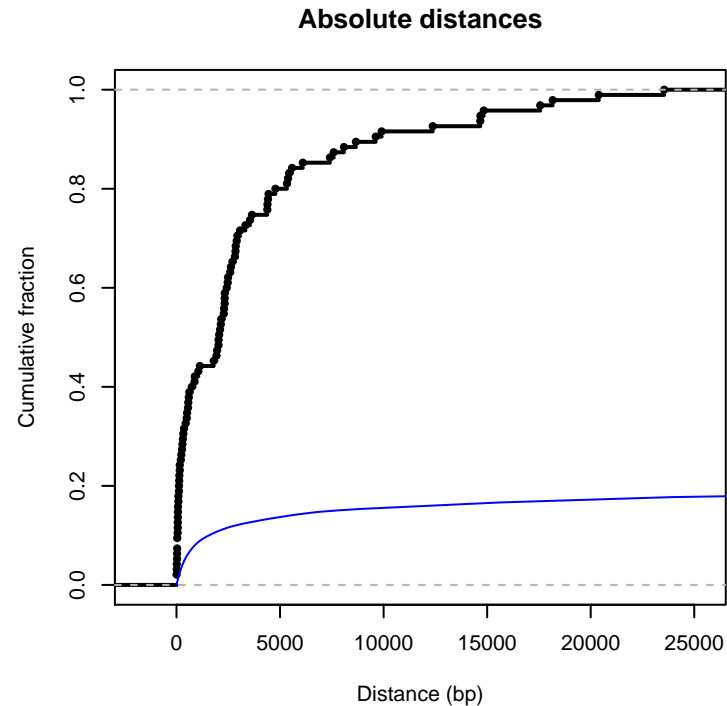
# pcontig\_064

Query population : 89  
Reference population : 273  
Relative Ks p-value : 0.0348717  
Relative ecdf deviation area : 0.0314347  
Relative ecdf area correlation : -0.112203  
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 : 5.71865e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 4.36995



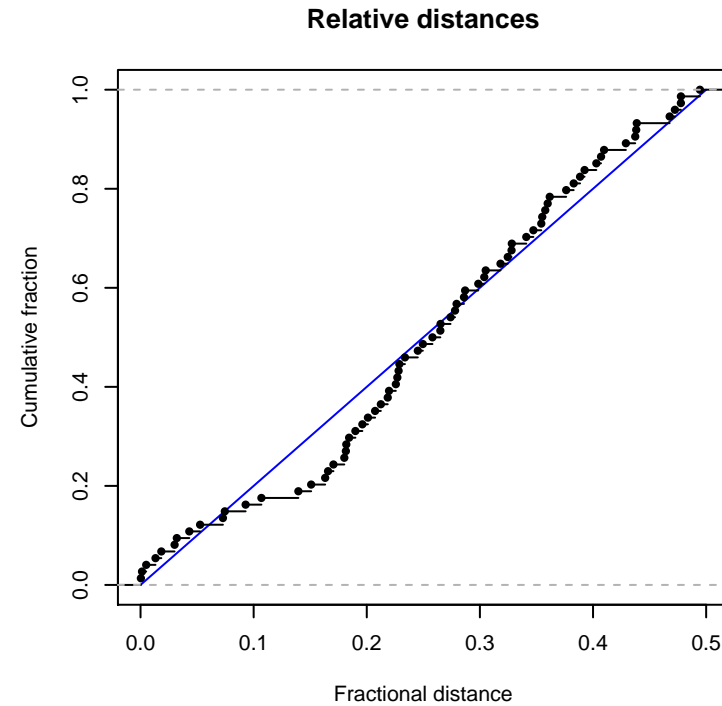
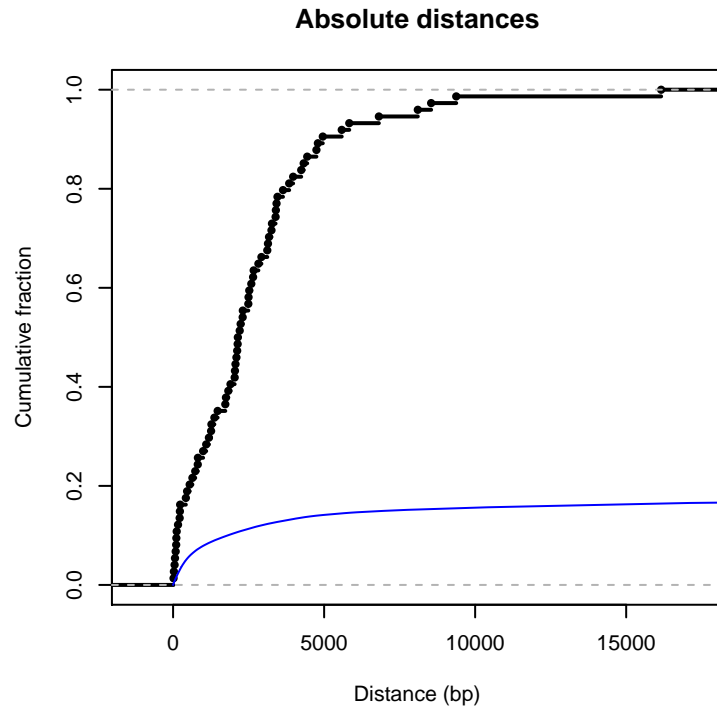
# pcontig\_065

Query population : 95  
Reference population : 320  
Relative Ks p-value : 0.23259  
Relative ecdf deviation area : 0.0195436  
Relative ecdf area correlation : 0.0519791  
Relative ecdf deviation area p-value : 0.27  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 5.38504



# pcontig\_066

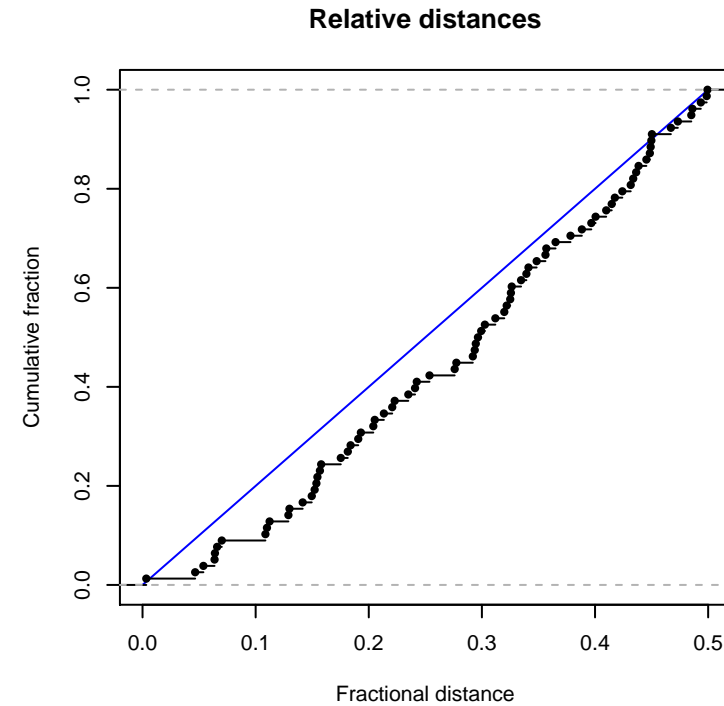
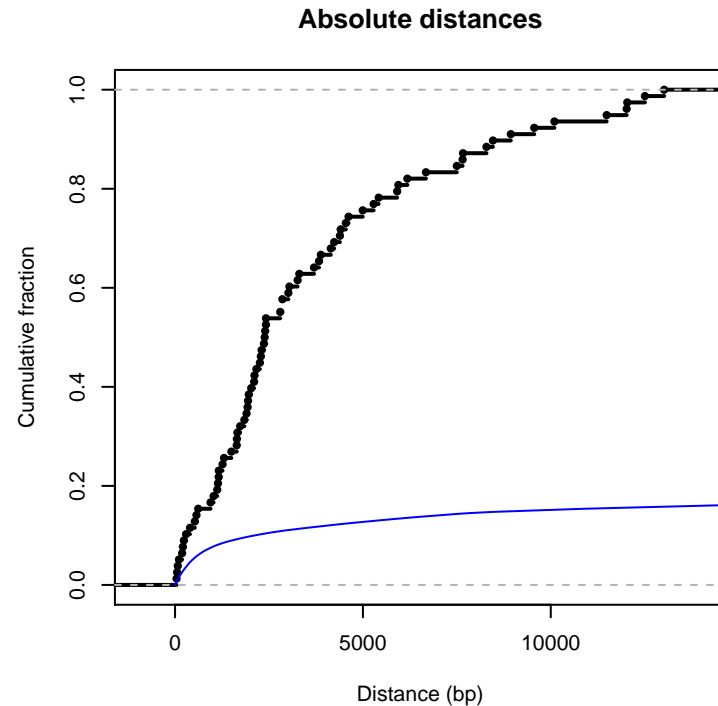
Query population : 74  
Reference population : 263  
Relative Ks p-value : 0.190588  
Relative ecdf deviation area : 0.0188072  
Relative ecdf area correlation : -0.0223612  
Relative ecdf deviation area p-value : 0.42  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 5.21405





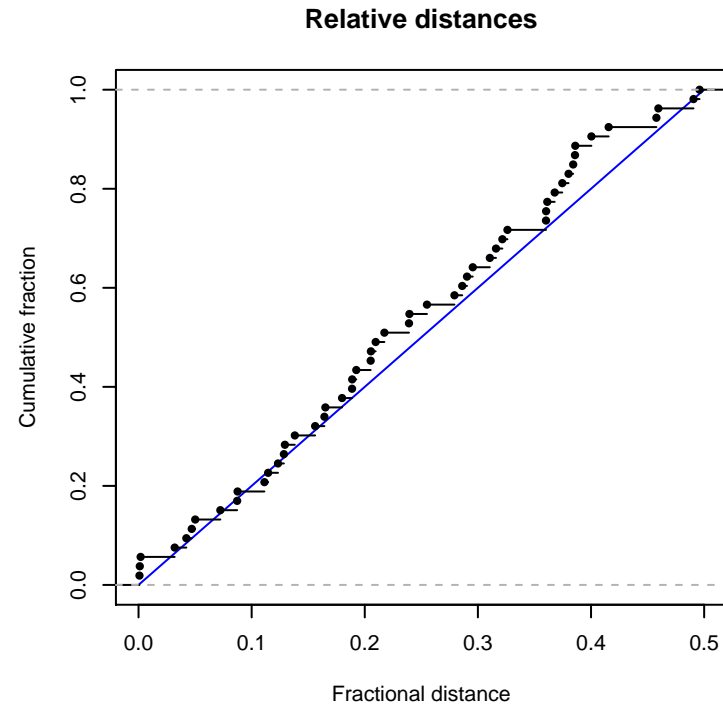
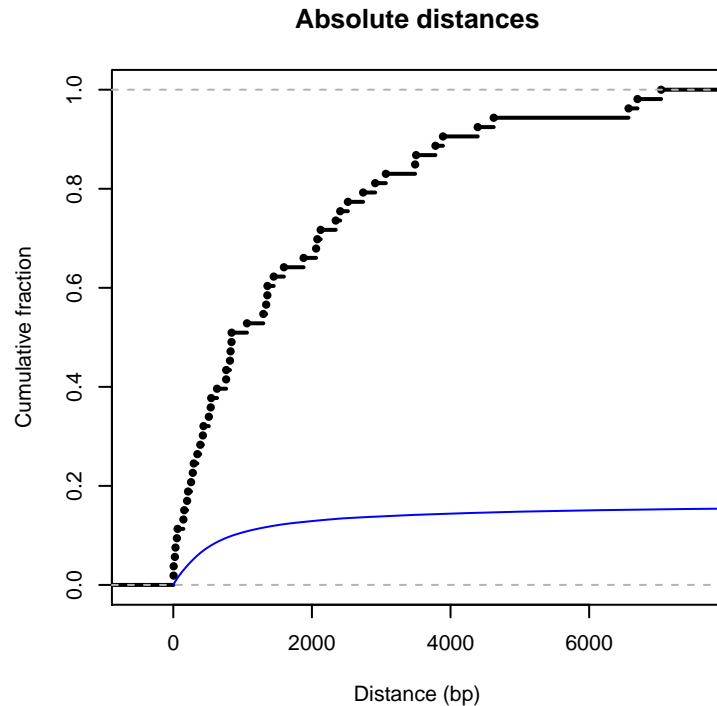
# pcontig\_067

Query population : 78  
Reference population : 294  
Relative Ks p-value : 0.10506  
Relative ecdf deviation area : 0.0358192  
Relative ecdf area correlation : -0.143952  
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 : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 6.21338e-05  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.82629



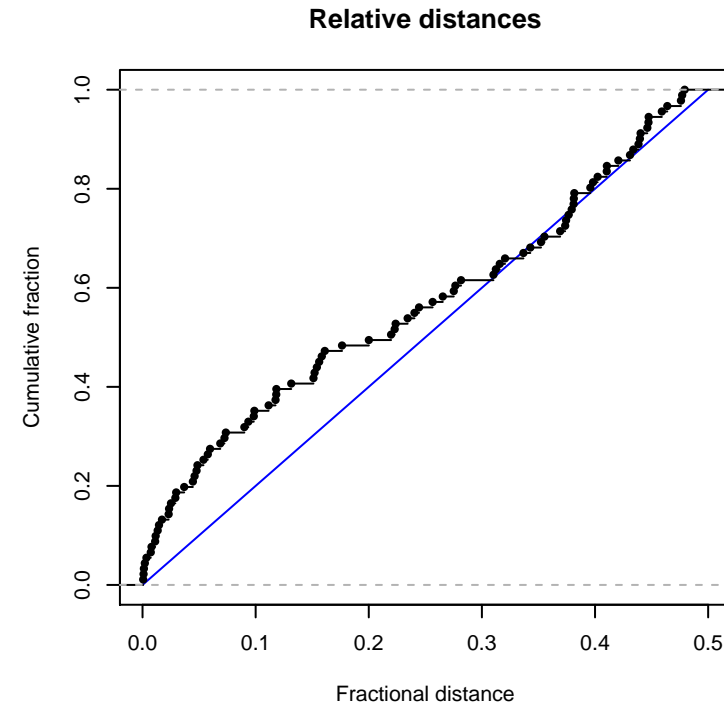
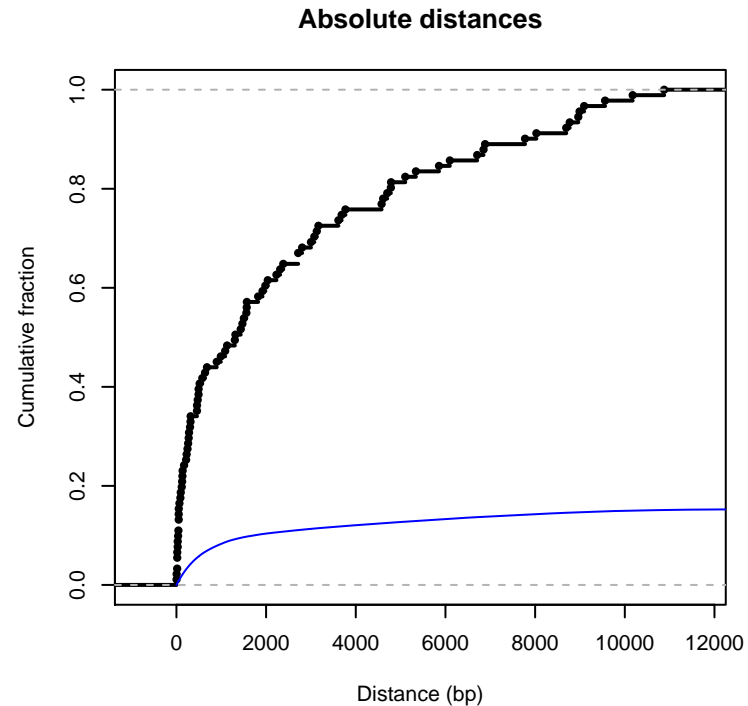
# pcontig\_068

Query population : 53  
Reference population : 406  
Relative Ks p-value : 0.45538  
Relative ecdf deviation area : 0.0160742  
Relative ecdf area correlation : 0.0581048  
Relative ecdf deviation area p-value : 0.73  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 5.62853



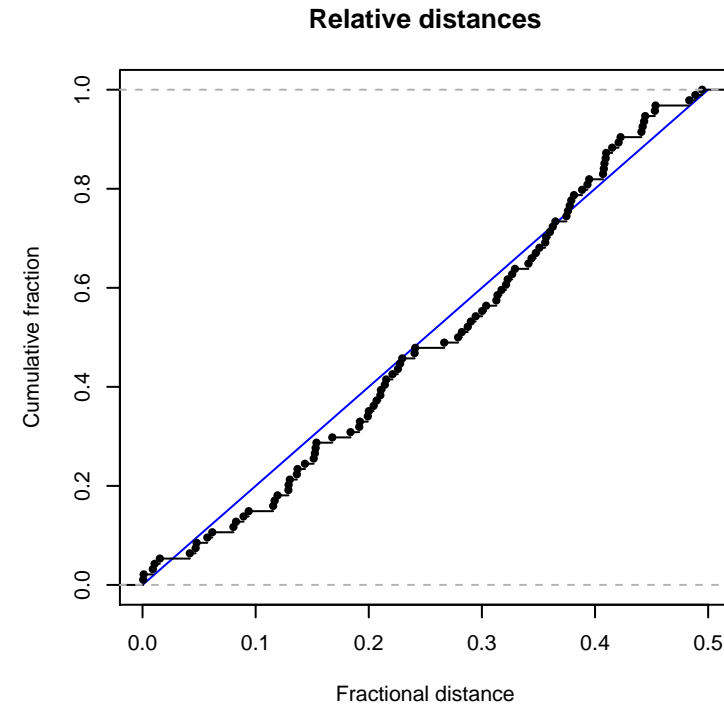
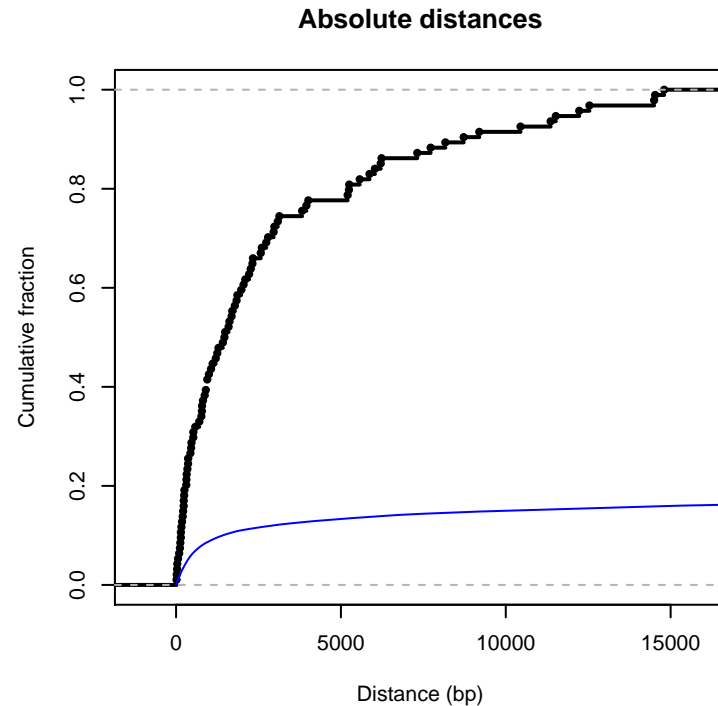
# pcontig\_069

Query population : 91  
Reference population : 287  
Relative Ks p-value : 0.0163537  
Relative ecdf deviation area : 0.0329677  
Relative ecdf area correlation : 0.127932  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.27689



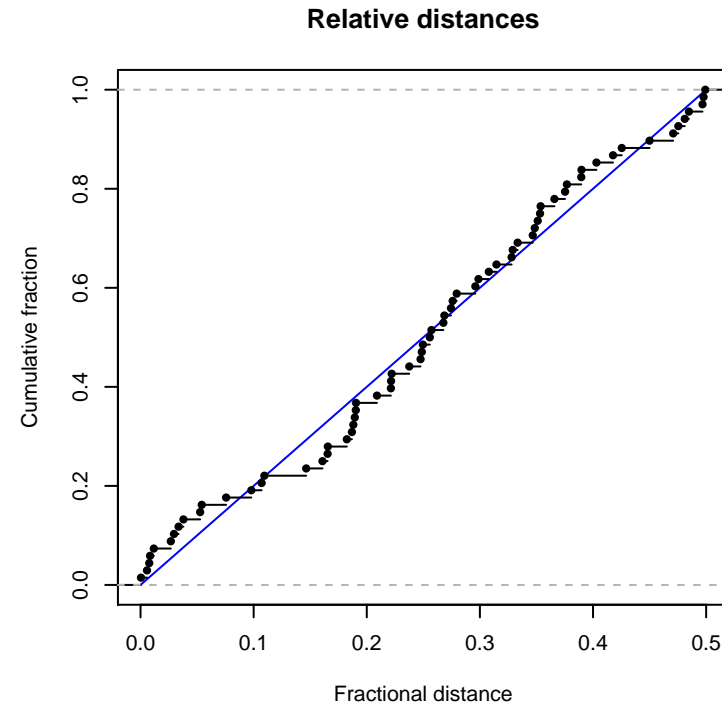
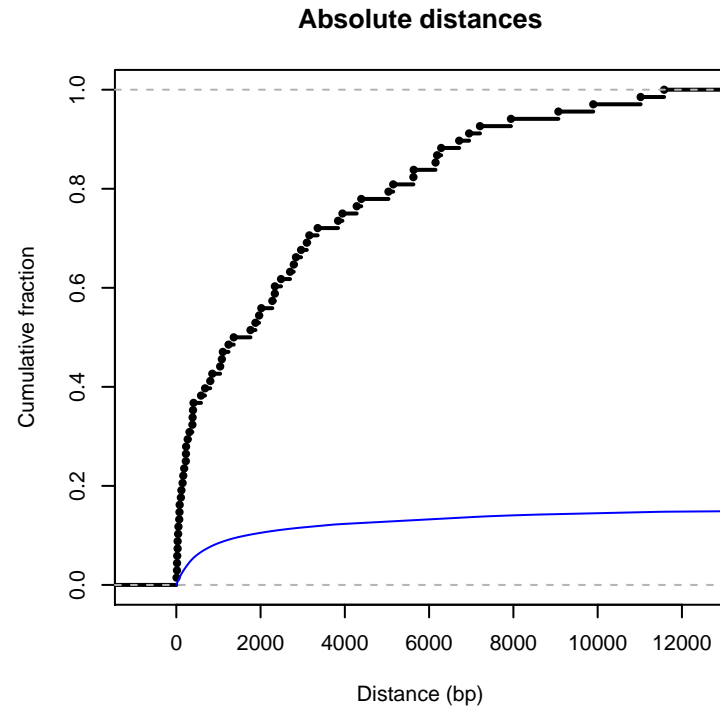
# pcontig\_070

Query population : 94  
Reference population : 332  
Relative Ks p-value : 0.525665  
Relative ecdf deviation area : 0.0183974  
Relative ecdf area correlation : -0.0395816  
Relative ecdf deviation area p-value : 0.29  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.28564e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 4.23744



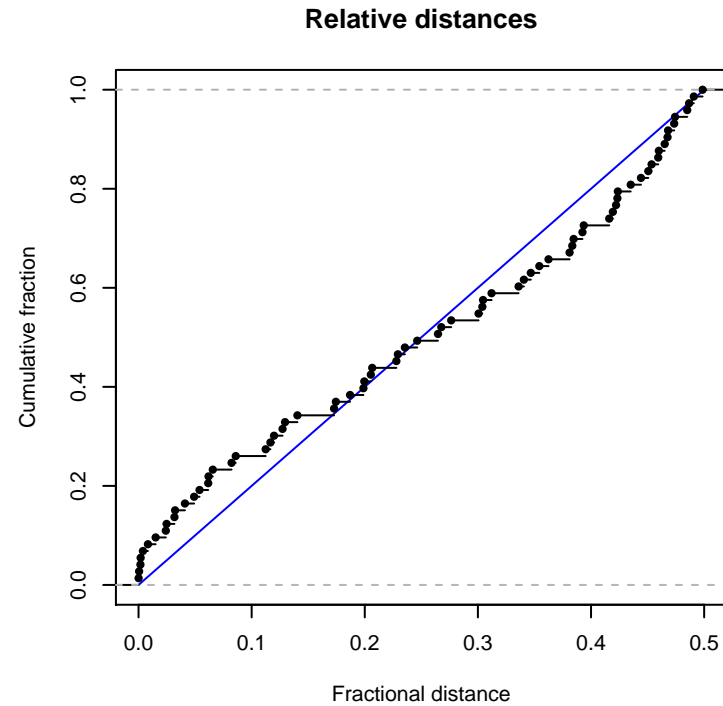
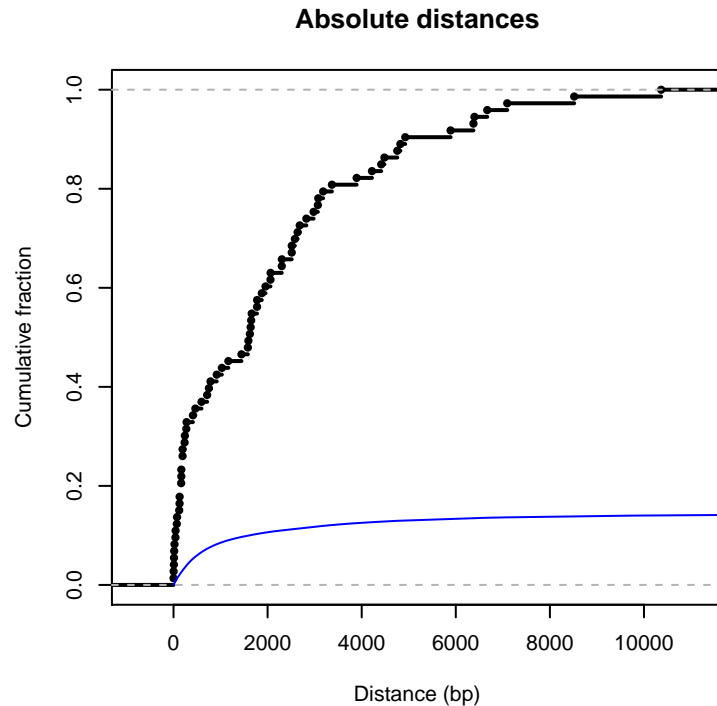
# pcontig\_072

Query population : 68  
Reference population : 354  
Relative Ks p-value : 0.658605  
Relative ecdf deviation area : 0.0156803  
Relative ecdf area correlation : -0.00711767  
Relative ecdf deviation area p-value : 0.57  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.16127



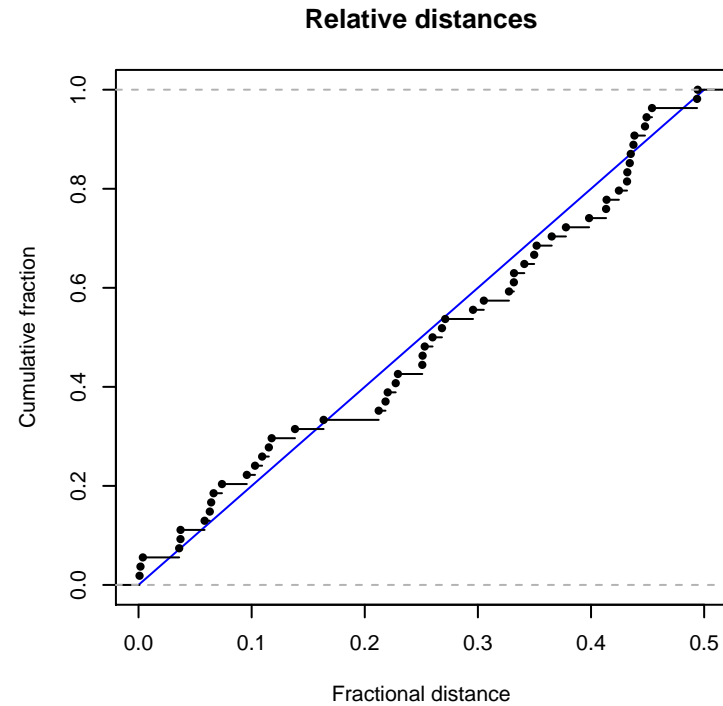
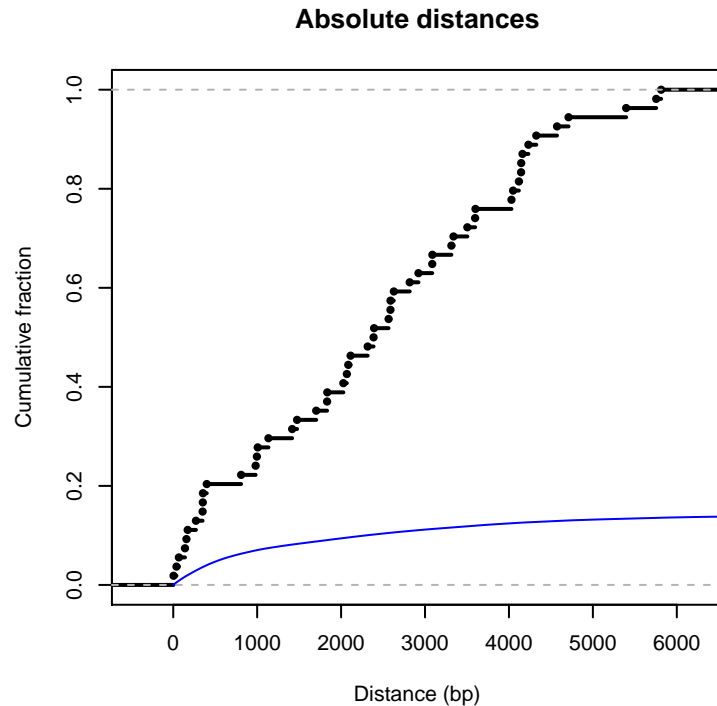
# pcontig\_073

Query population : 73  
Reference population : 322  
Relative Ks p-value : 0.357797  
Relative ecdf deviation area : 0.0243606  
Relative ecdf area correlation : -0.0135775  
Relative ecdf deviation area p-value : 0.17  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.01868



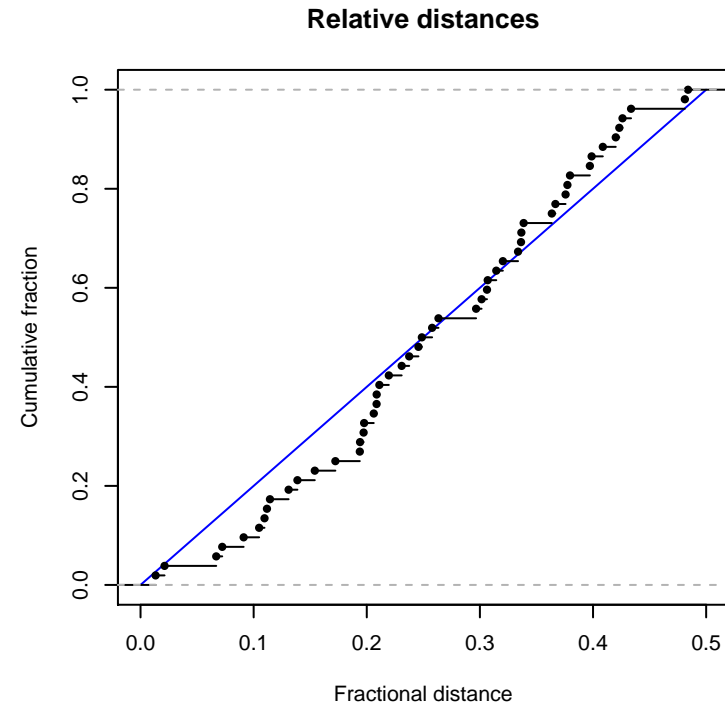
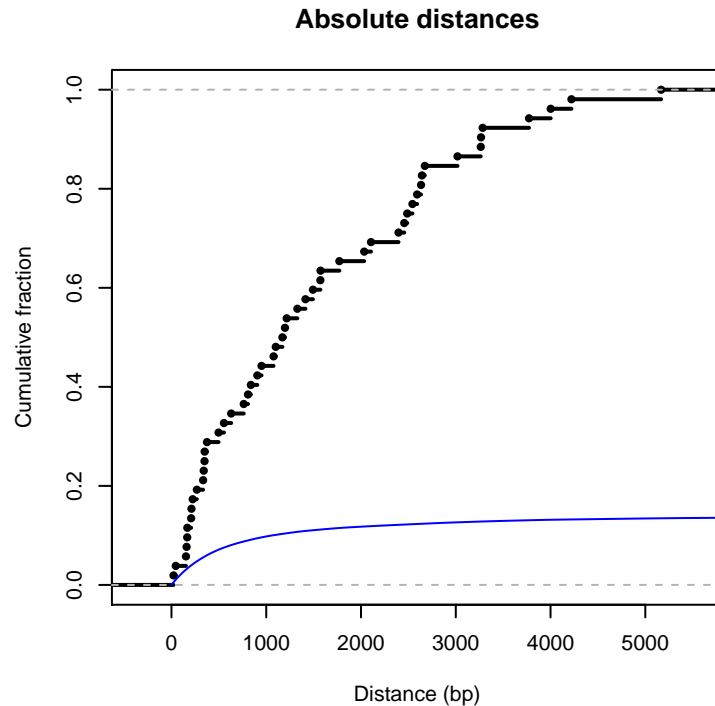
# pcontig\_074

Query population : 54  
Reference population : 225  
Relative Ks p-value : 0.724939  
Relative ecdf deviation area : 0.0193306  
Relative ecdf area correlation : -0.0313198  
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 : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 3.70853e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 4.37181



# pcontig\_075

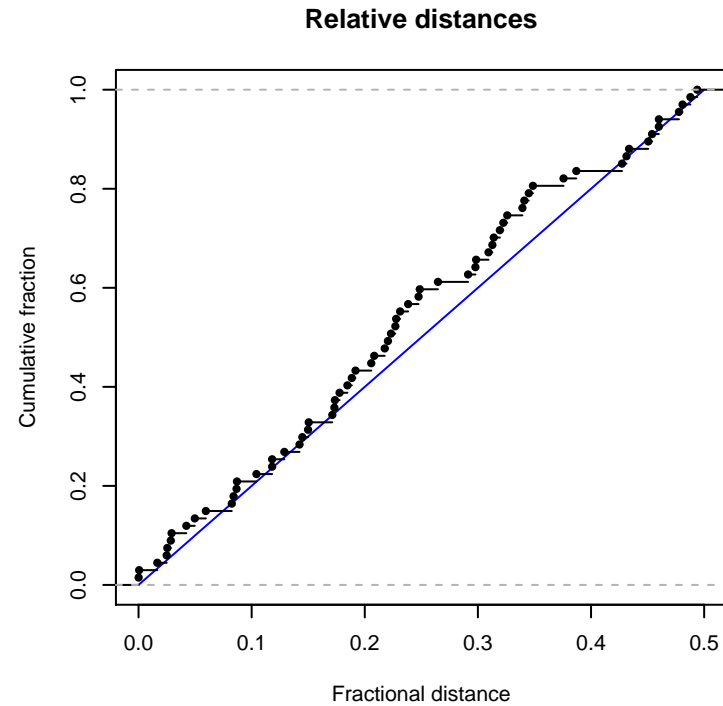
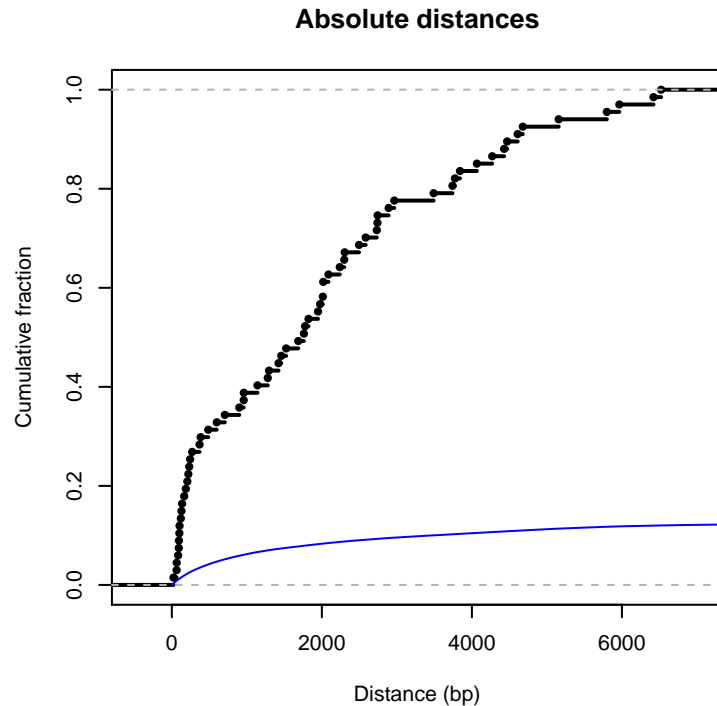
Query population : 52  
Reference population : 405  
Relative Ks p-value : 0.253643  
Relative ecdf deviation area : 0.0247707  
Relative ecdf area correlation : -0.0422708  
Relative ecdf deviation area p-value : 0.29  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.11279





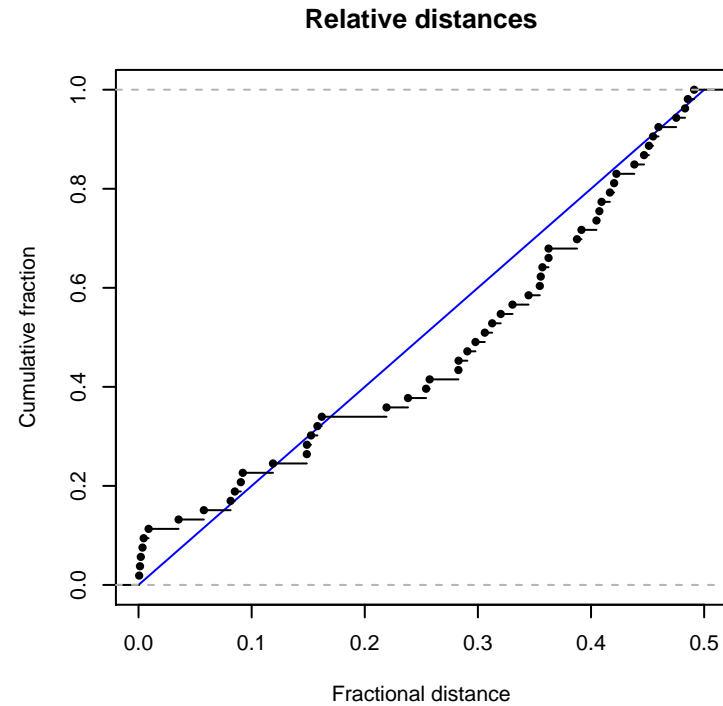
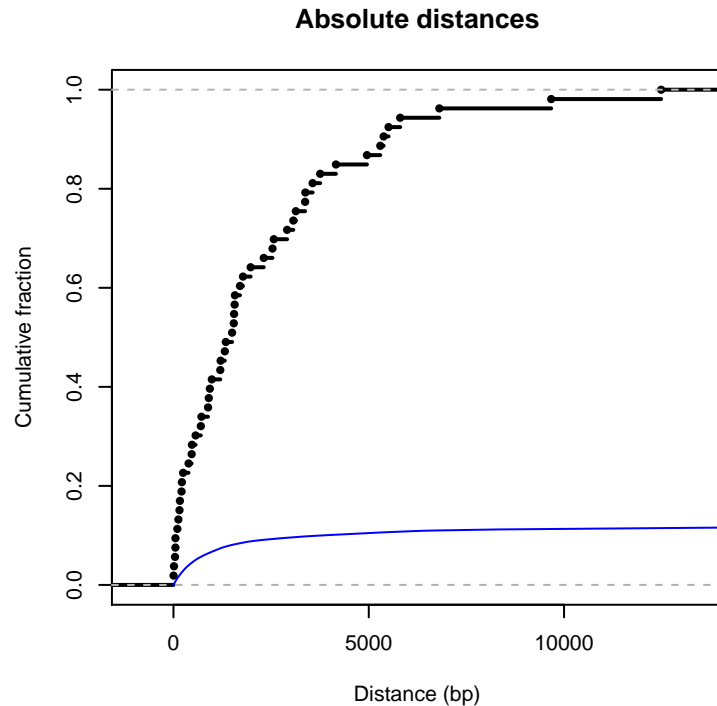
# pcontig\_077

Query population : 67  
Reference population : 236  
Relative Ks p-value : 0.380086  
Relative ecdf deviation area : 0.0172438  
Relative ecdf area correlation : 0.0638436  
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  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 7.49731



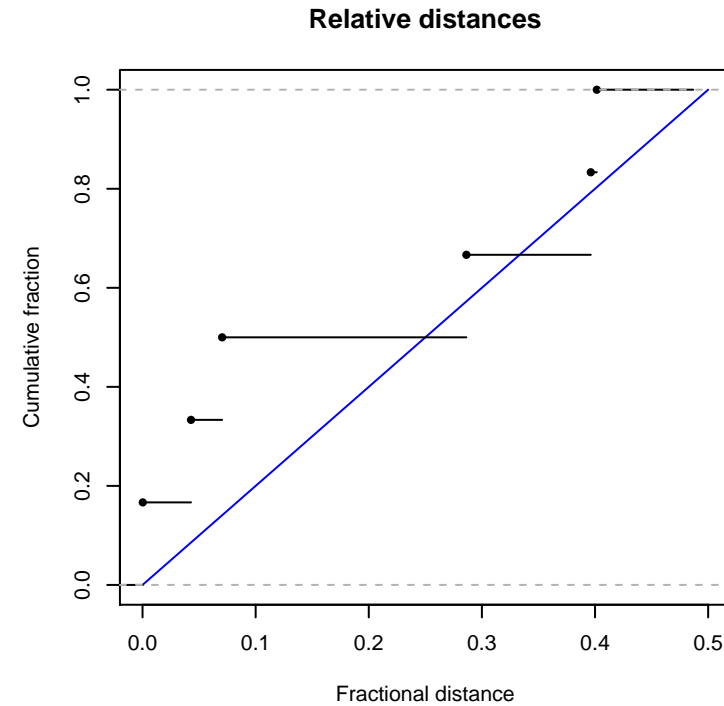
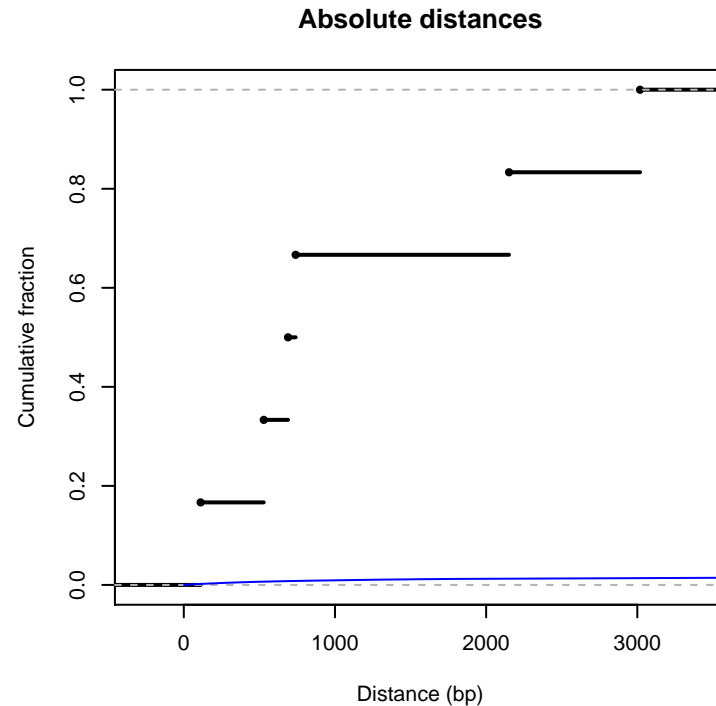
# pcontig\_078

Query population : 53  
Reference population : 251  
Relative Ks p-value : 0.163553  
Relative ecdf deviation area : 0.0290324  
Relative ecdf area correlation : -0.0813495  
Relative ecdf deviation area p-value : 0.16  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.58984e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.4458



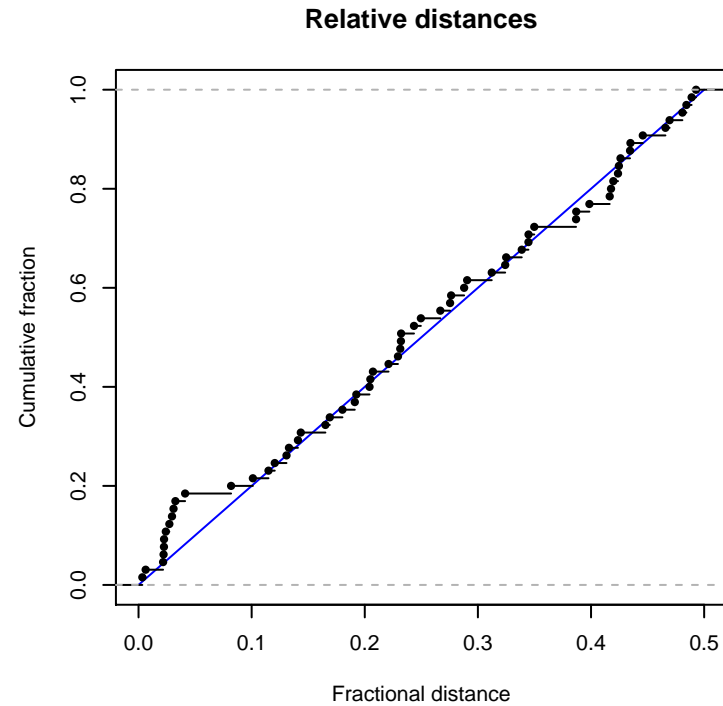
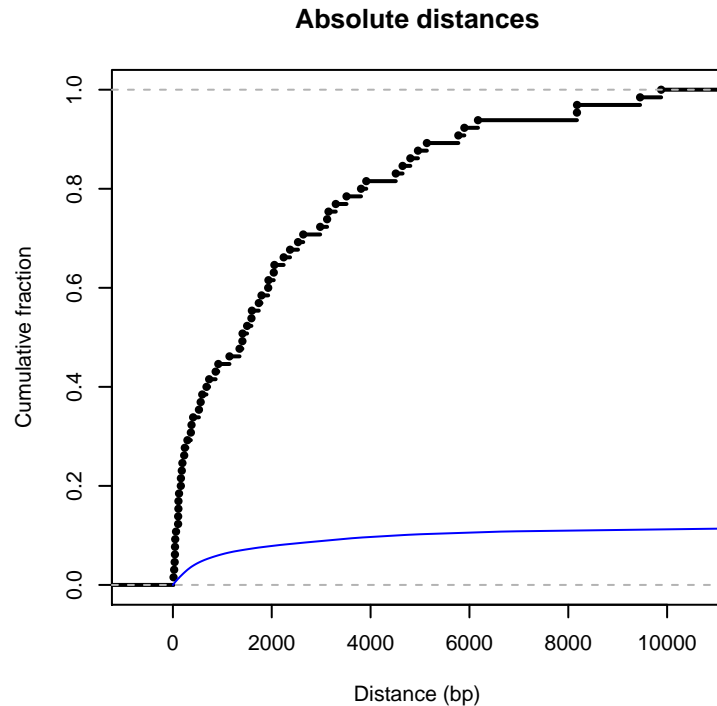
# pcontig\_079

Query population : 6  
Reference population : 38  
Relative Ks p-value : 0.337238  
Relative ecdf deviation area : 0.0610879  
Relative ecdf area correlation : 0.201599  
Relative ecdf deviation area p-value : 0.52  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.08695e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 53.9915



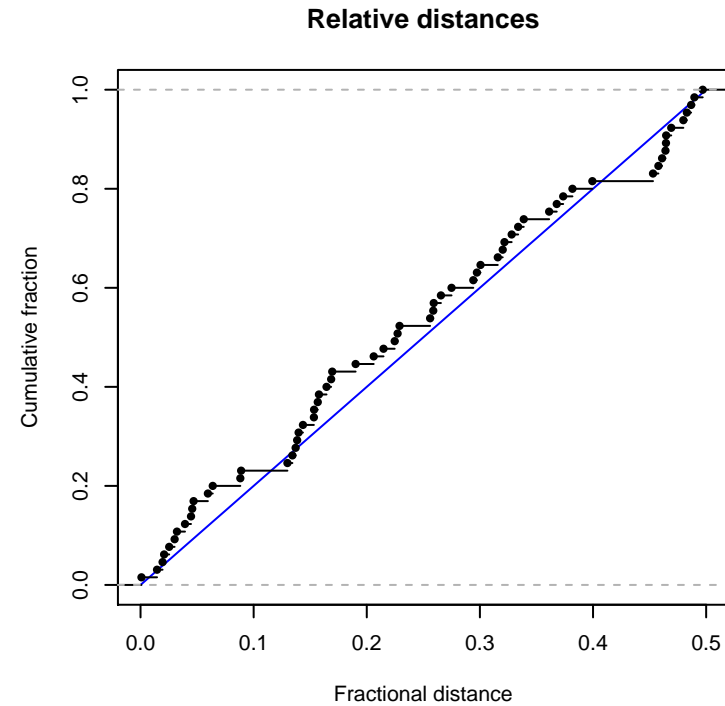
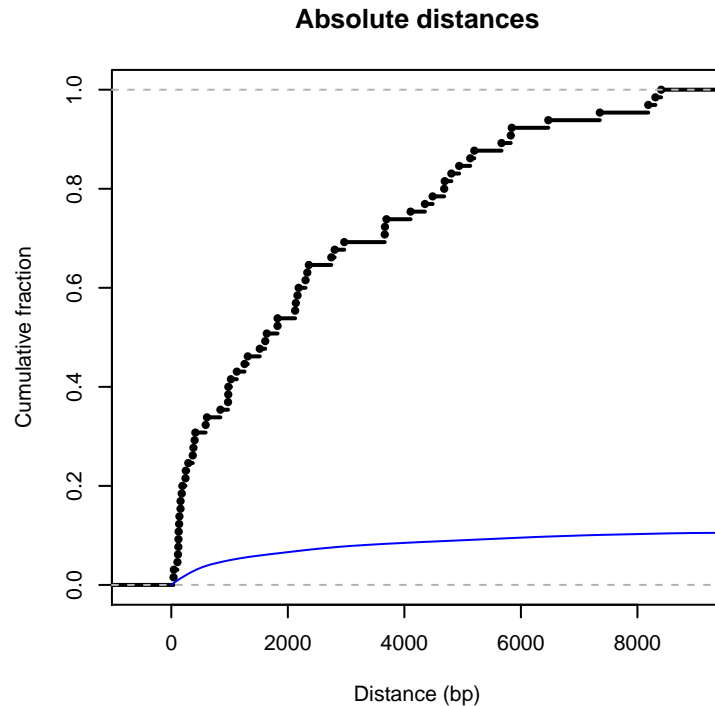
# pcontig\_080

Query population : 65  
Reference population : 224  
Relative Ks p-value : 0.452591  
Relative ecdf deviation area : 0.0109942  
Relative ecdf area correlation : 0.013044  
Relative ecdf deviation area p-value : 0.85  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 7.64459



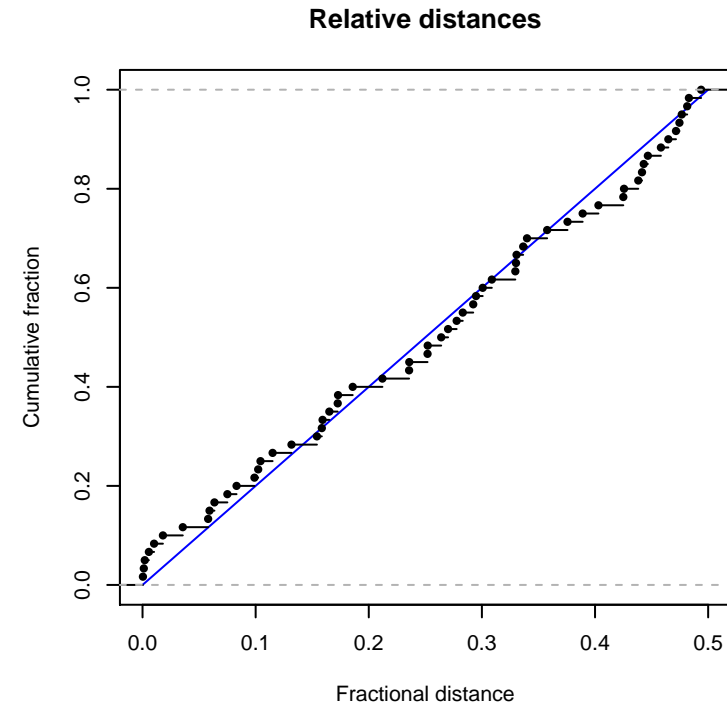
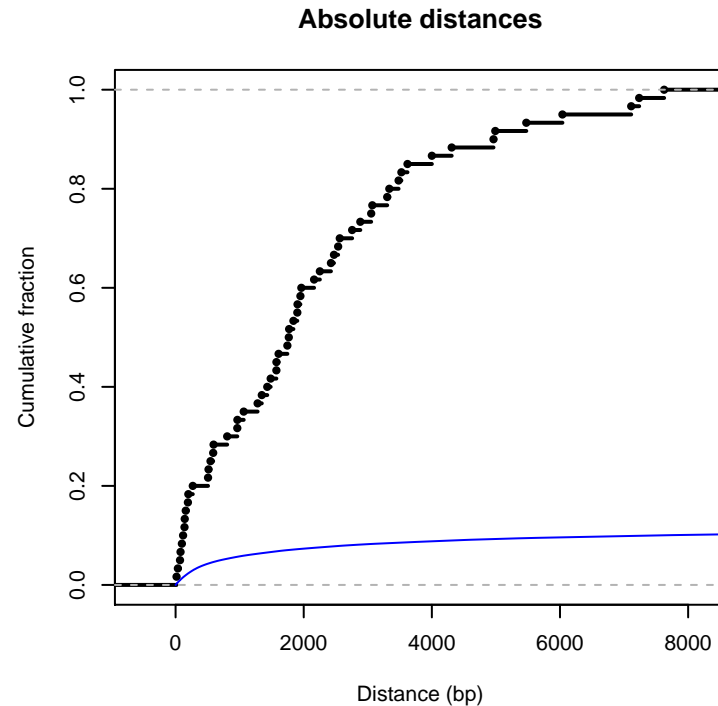
# pcontig\_081

Query population : 65  
Reference population : 155  
Relative Ks p-value : 0.610466  
Relative ecdf deviation area : 0.0180134  
Relative ecdf area correlation : 0.0413601  
Relative ecdf deviation area p-value : 0.6  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 8.33615



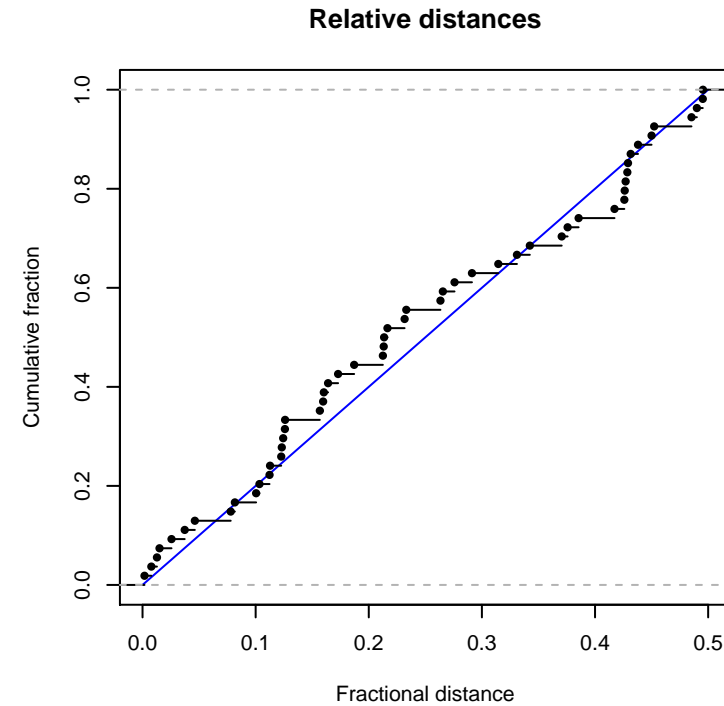
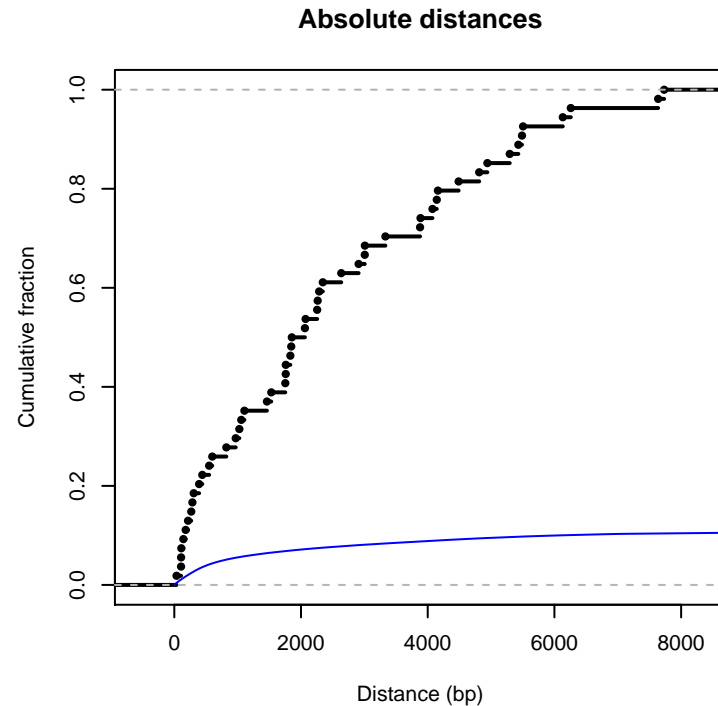
# pcontig\_082

Query population : 60  
Reference population : 254  
Relative Ks p-value : 0.767797  
Relative ecdf deviation area : 0.0137931  
Relative ecdf area correlation : -0.0151765  
Relative ecdf deviation area p-value : 0.76  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 8.55316e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.52457



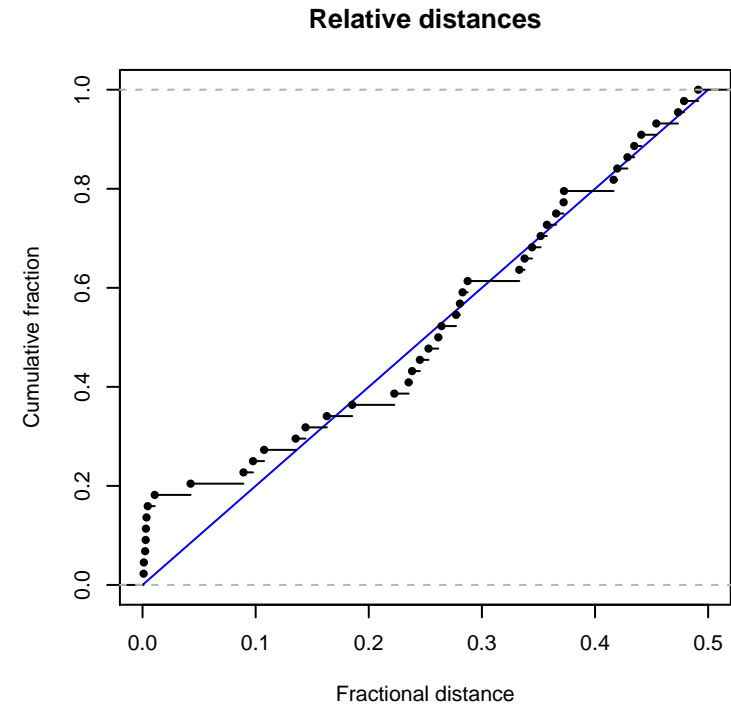
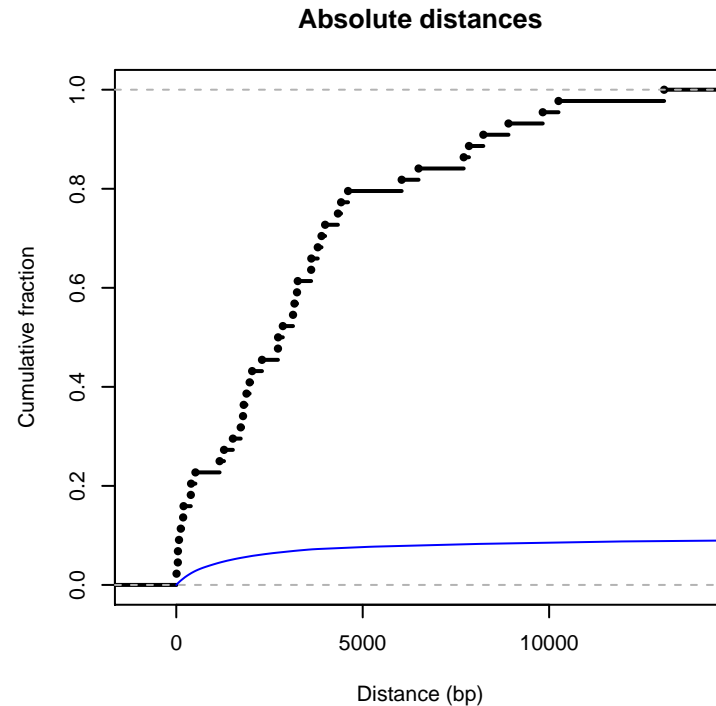
# pcontig\_083

Query population : 54  
Reference population : 199  
Relative Ks p-value : 0.694717  
Relative ecdf deviation area : 0.0172862  
Relative ecdf area correlation : 0.0233121  
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 : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.70759e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 4.37364



# pcontig\_084

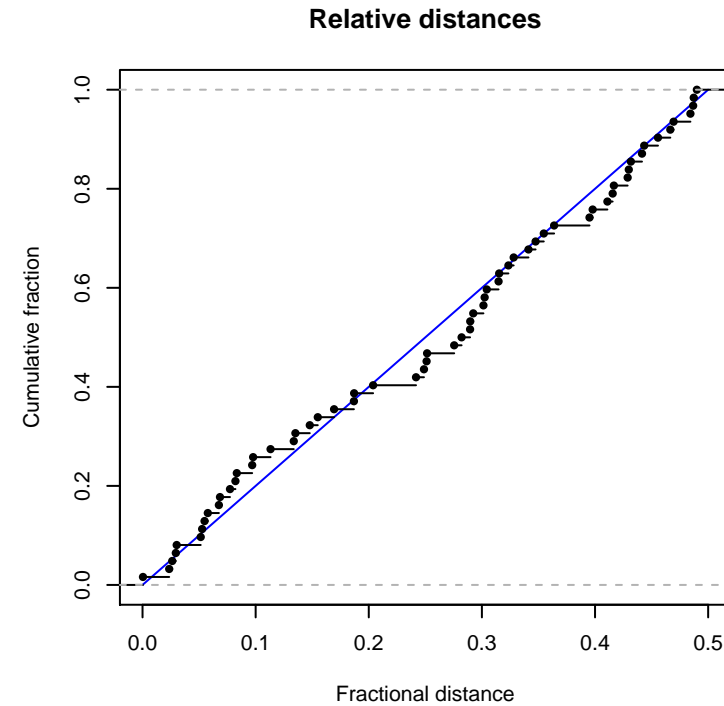
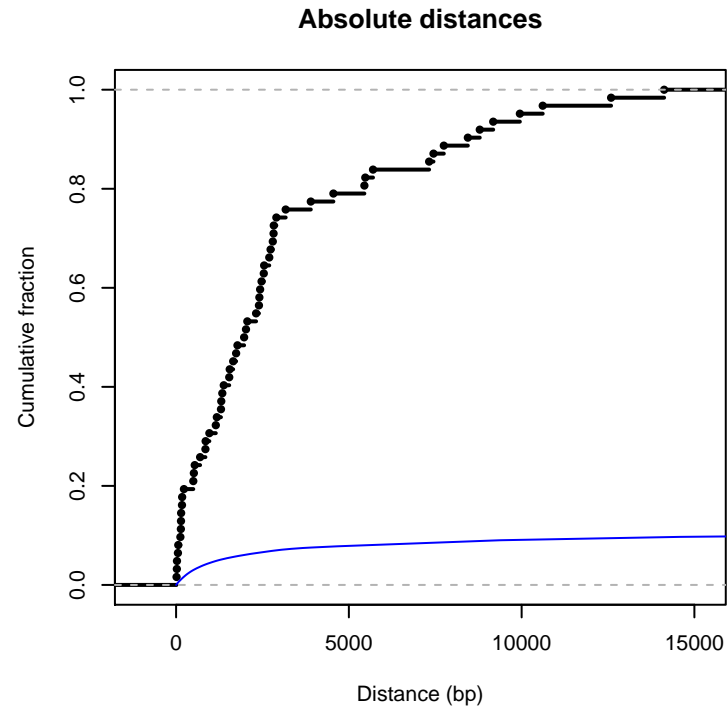
Query population : 44  
Reference population : 135  
Relative Ks p-value : 0.187079  
Relative ecdf deviation area : 0.0188393  
Relative ecdf area correlation : 0.0259853  
Relative ecdf deviation area p-value : 0.72  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.79776e-14  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 8.67769





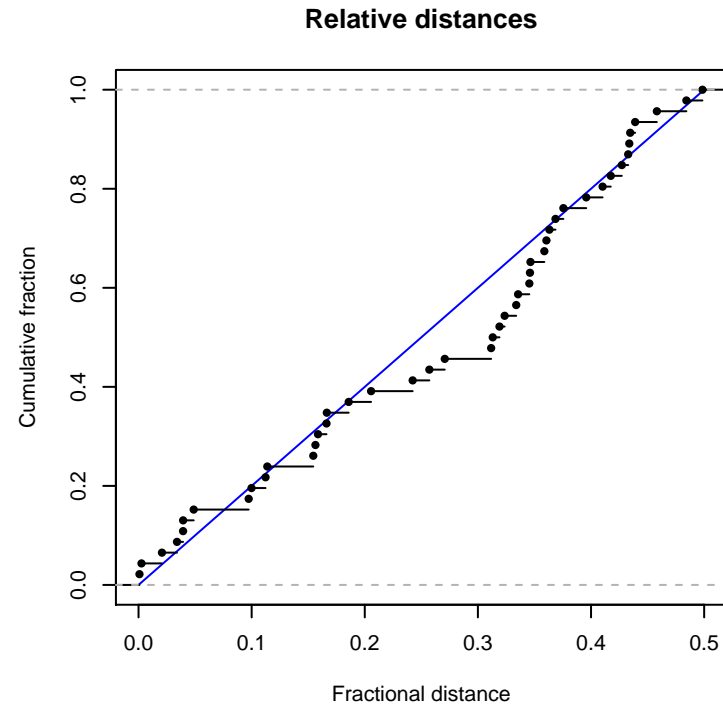
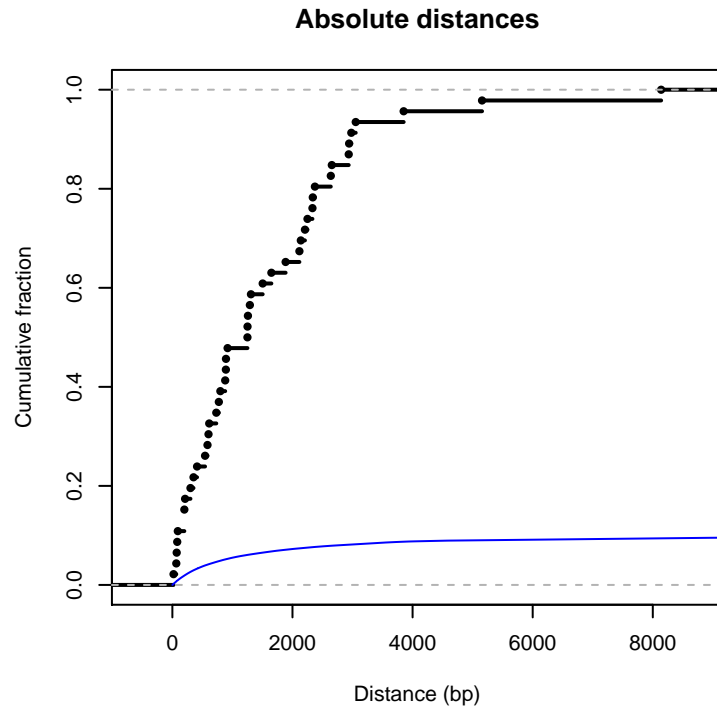
# pcontig\_086

Query population : 62  
Reference population : 149  
Relative Ks p-value : 0.751583  
Relative ecdf deviation area : 0.0134573  
Relative ecdf area correlation : -0.0259688  
Relative ecdf deviation area p-value : 0.84  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 9.41565



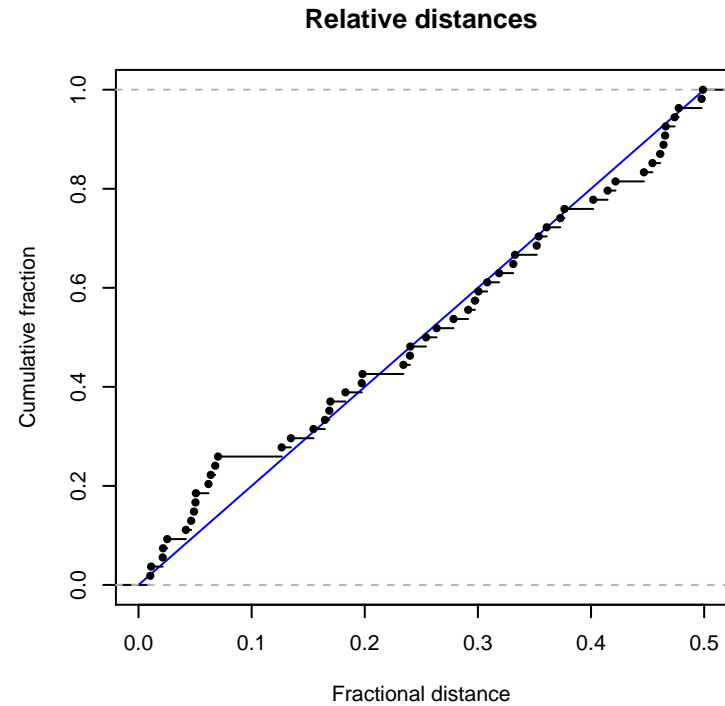
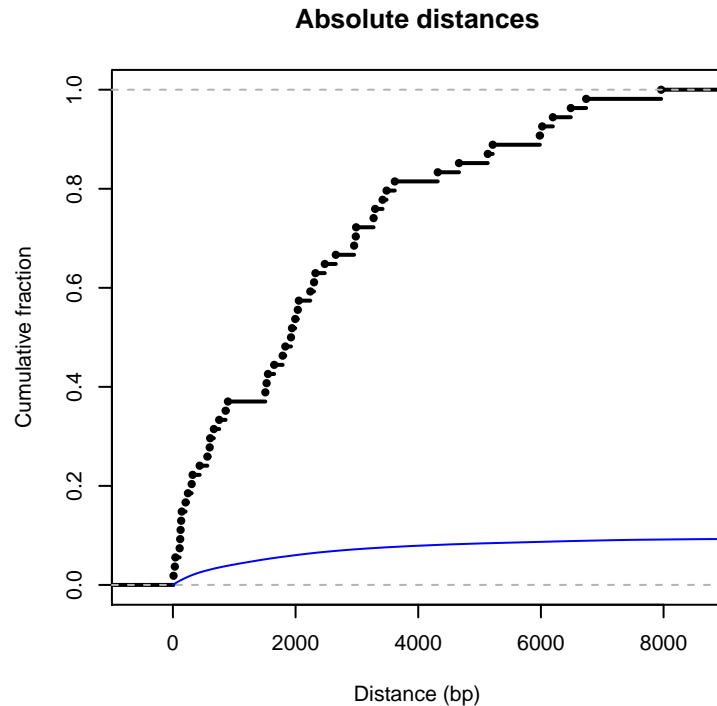
# pcontig\_087

Query population : 46  
Reference population : 189  
Relative Ks p-value : 0.137476  
Relative ecdf deviation area : 0.0216388  
Relative ecdf area correlation : -0.0614033  
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 : FALSE  
Projection test p-value : 2.70373e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 7.40223



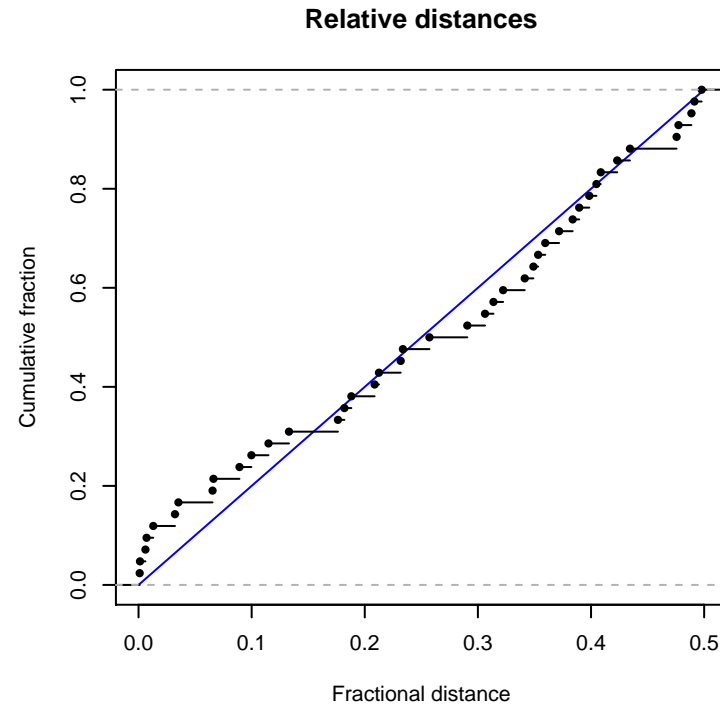
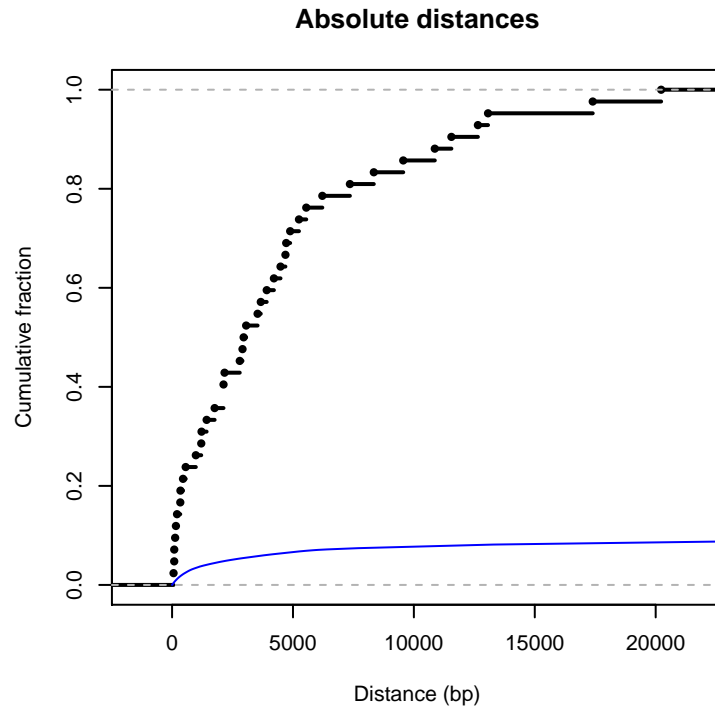
# pcontig\_088

Query population : 54  
Reference population : 144  
Relative Ks p-value : 0.400095  
Relative ecdf deviation area : 0.0149209  
Relative ecdf area correlation : -0.00296057  
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 : 2.22045e-16  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 9.77046



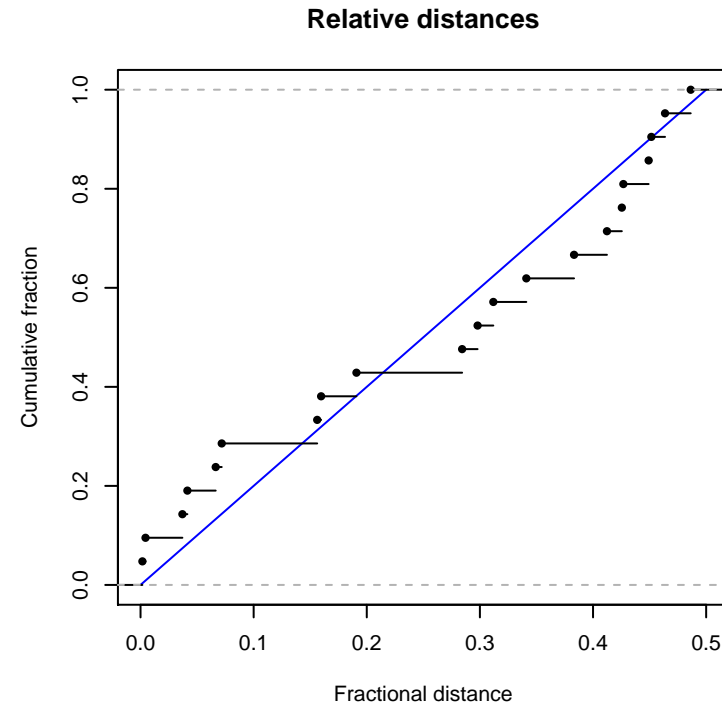
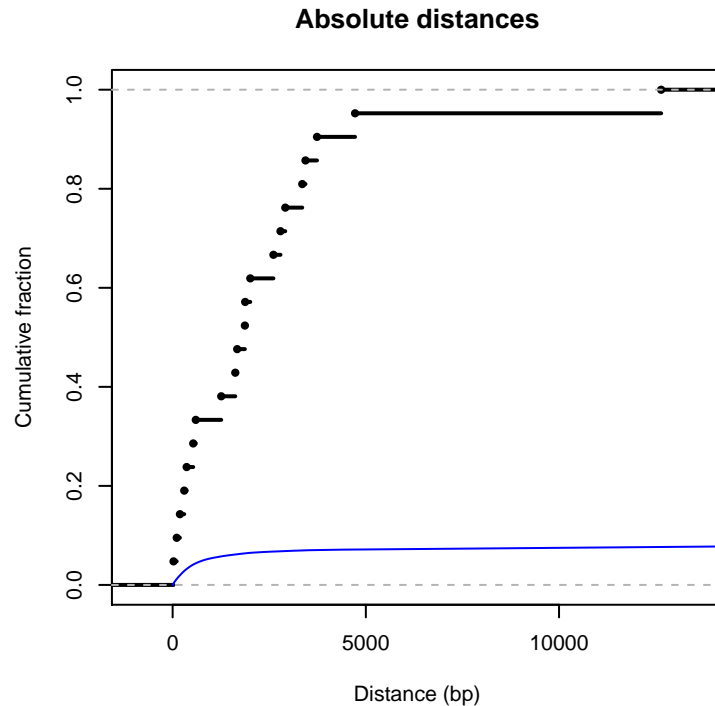
# pcontig\_089

Query population : 42  
Reference population : 120  
Relative Ks p-value : 0.796759  
Relative ecdf deviation area : 0.0201226  
Relative ecdf area correlation : -0.01299  
Relative ecdf deviation area p-value : 0.56  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.56438e-09  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 9.11614



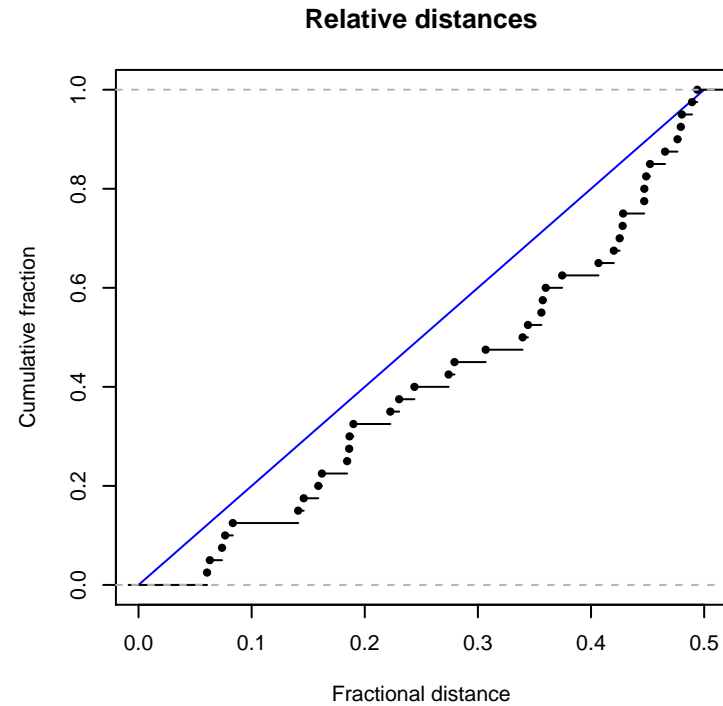
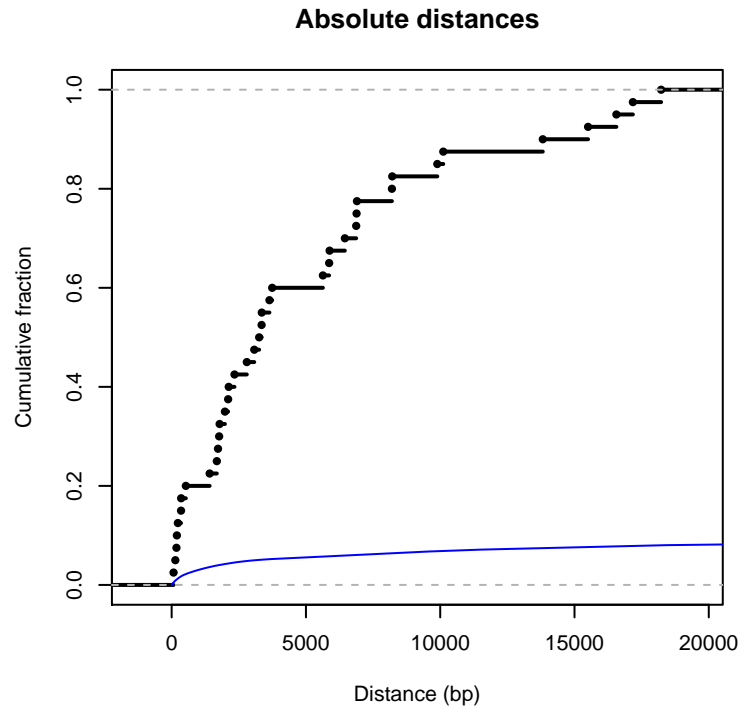
# pcontig\_090

Query population : 21  
Reference population : 222  
Relative Ks p-value : 0.615719  
Relative ecdf deviation area : 0.0335655  
Relative ecdf area correlation : -0.0405888  
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 : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.12356e-05  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 5.86565



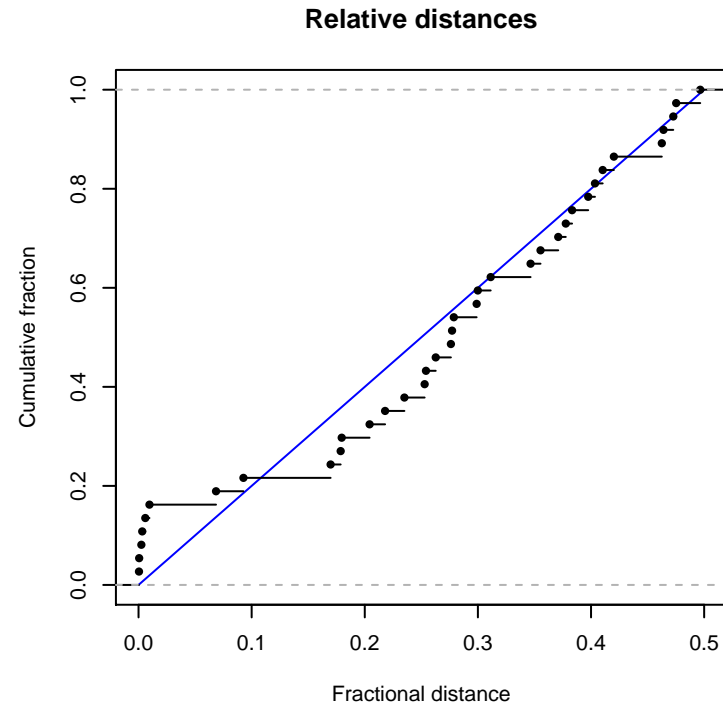
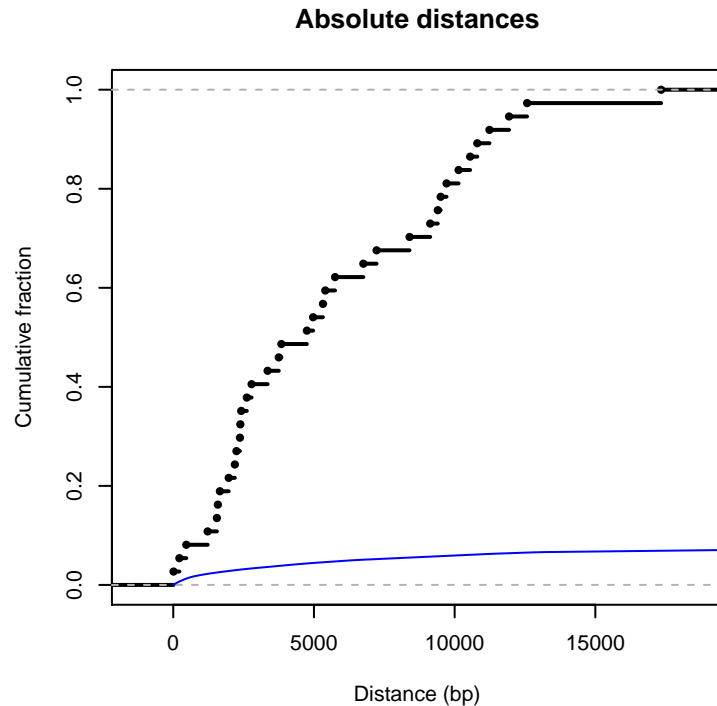
# pcontig\_091

Query population : 40  
Reference population : 129  
Relative Ks p-value : 0.061555  
Relative ecdf deviation area : 0.0550367  
Relative ecdf area correlation : -0.218944  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.37517e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.79693



# pcontig\_092

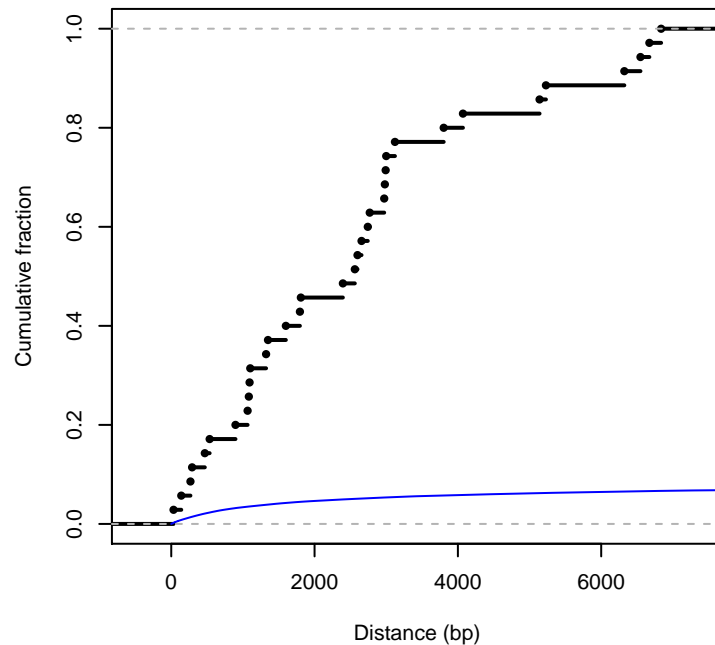
Query population : 37  
Reference population : 61  
Relative Ks p-value : 0.399384  
Relative ecdf deviation area : 0.0267465  
Relative ecdf area correlation : -0.0505118  
Relative ecdf deviation area p-value : 0.32  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.93135e-05  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 8.87502



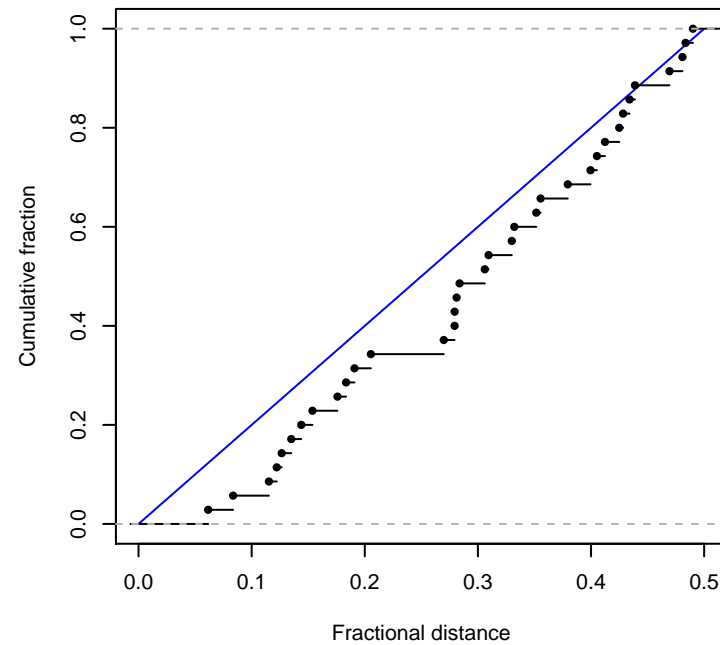
# pcontig\_095

Query population : 35  
Reference population : 120  
Relative Ks p-value : 0.115752  
Relative ecdf deviation area : 0.0450313  
Relative ecdf area correlation : -0.179667  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.32435e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 10.8798

Absolute distances



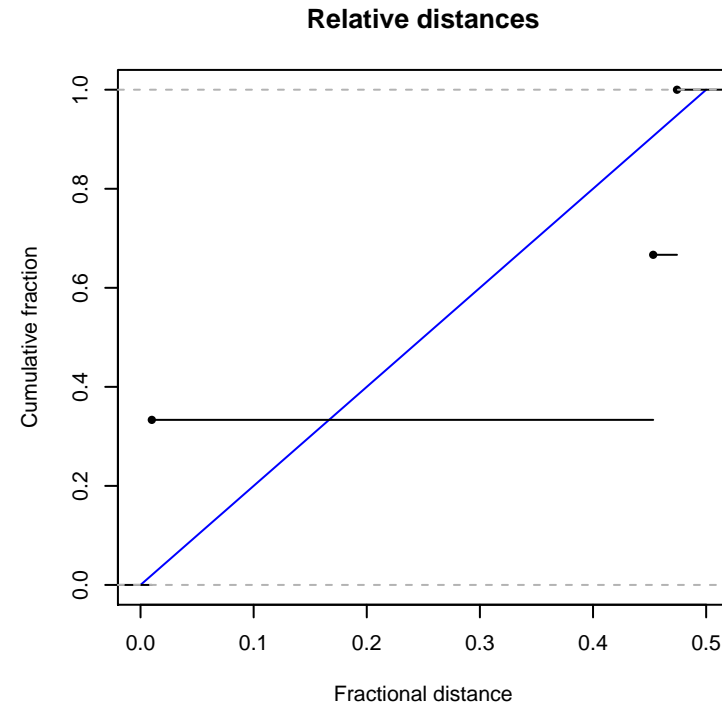
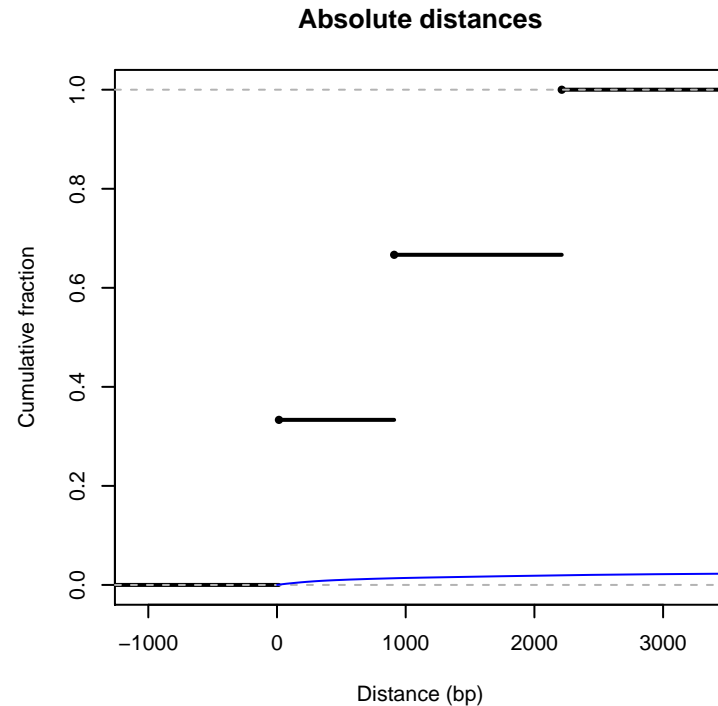
Relative distances





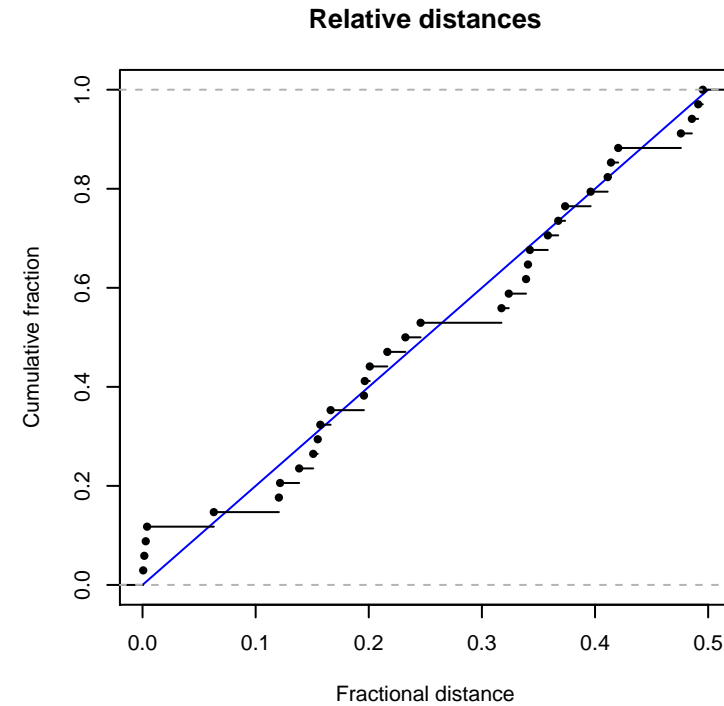
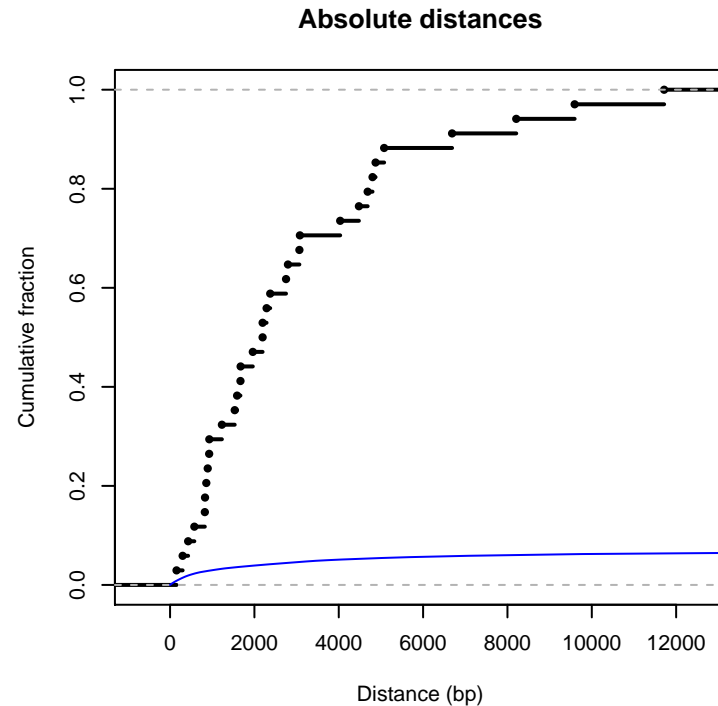
# pcontig\_096

Query population : 3  
Reference population : 59  
Relative Ks p-value : 0.185775  
Relative ecdf deviation area : 0.113481  
Relative ecdf area correlation : -0.249859  
Relative ecdf deviation area p-value : 0.32  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 7.845e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 33.5514



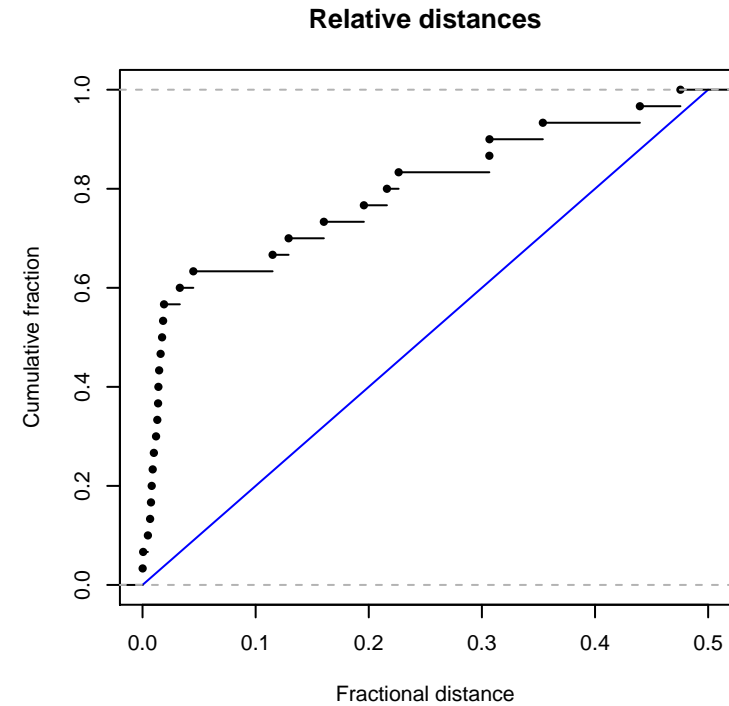
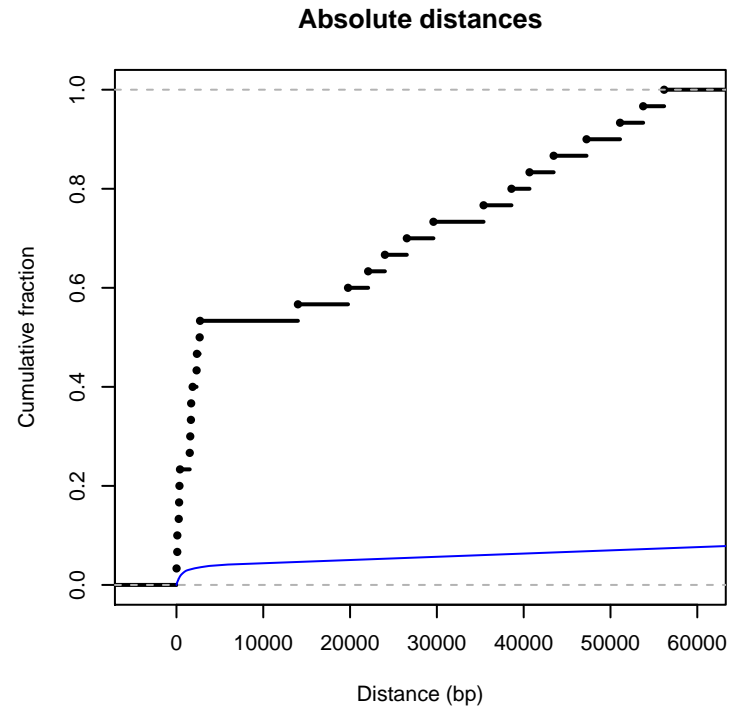
# pcontig\_097

Query population : 34  
Reference population : 109  
Relative Ks p-value : 0.768621  
Relative ecdf deviation area : 0.0171416  
Relative ecdf area correlation : -0.0261121  
Relative ecdf deviation area p-value : 0.8  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.09742e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 10.5147



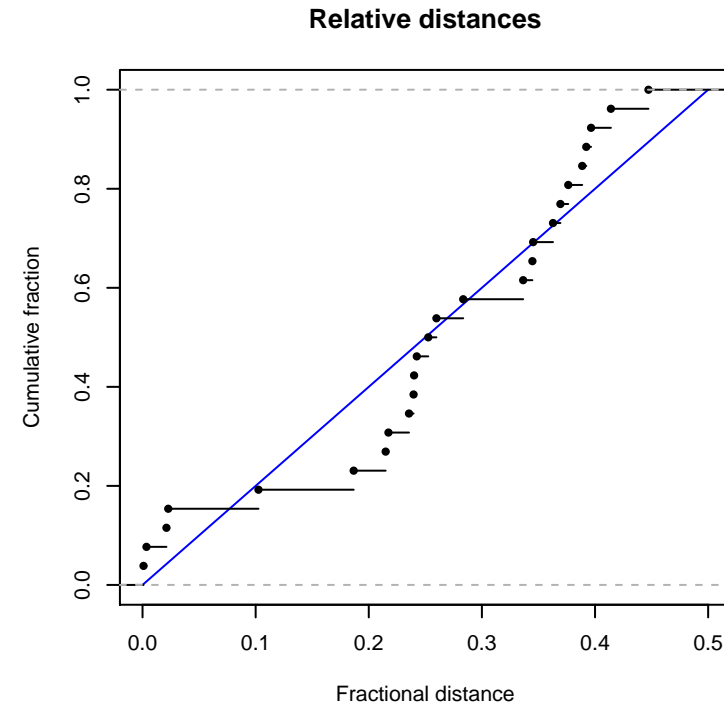
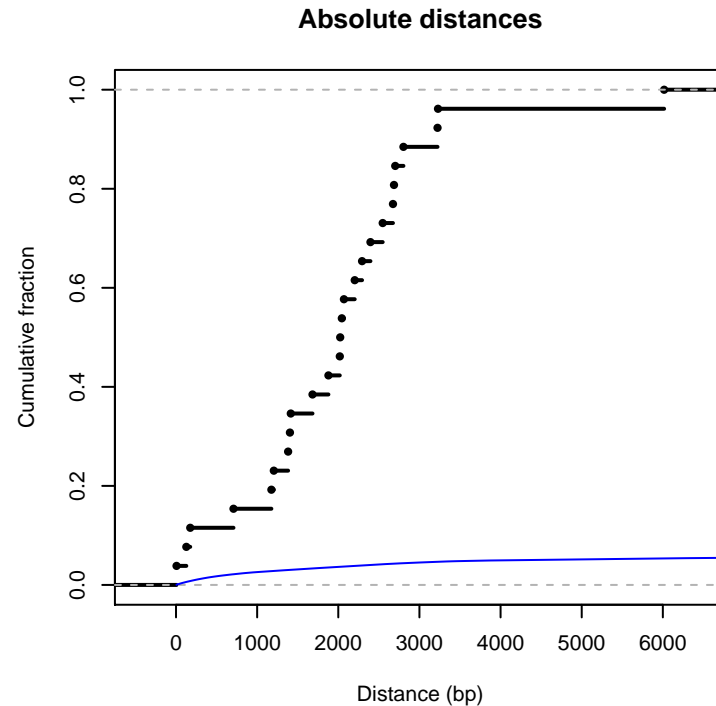
# pcontig\_100

Query population : 30  
Reference population : 102  
Relative Ks p-value :  $7.82097\text{e-}09$   
Relative ecdf deviation area : 0.143866  
Relative ecdf area correlation : 0.575033  
Relative ecdf deviation area p-value :  $<0.01$   
Scaled Absolute min. distance p-value :  $<0.01$   
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value :  $<0.01$   
Jaccard Measure lower tail : FALSE  
Projection test p-value :  $1.87786\text{e-}10$   
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 12.3519



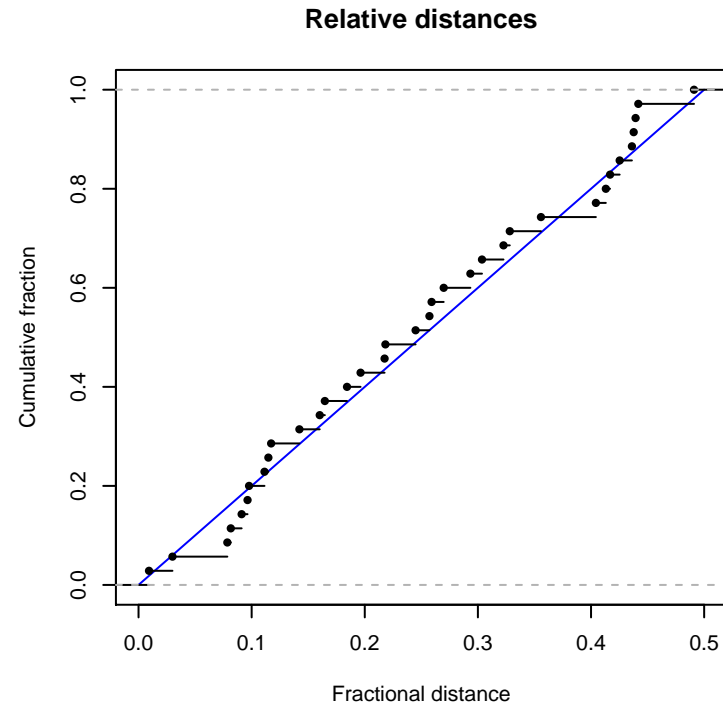
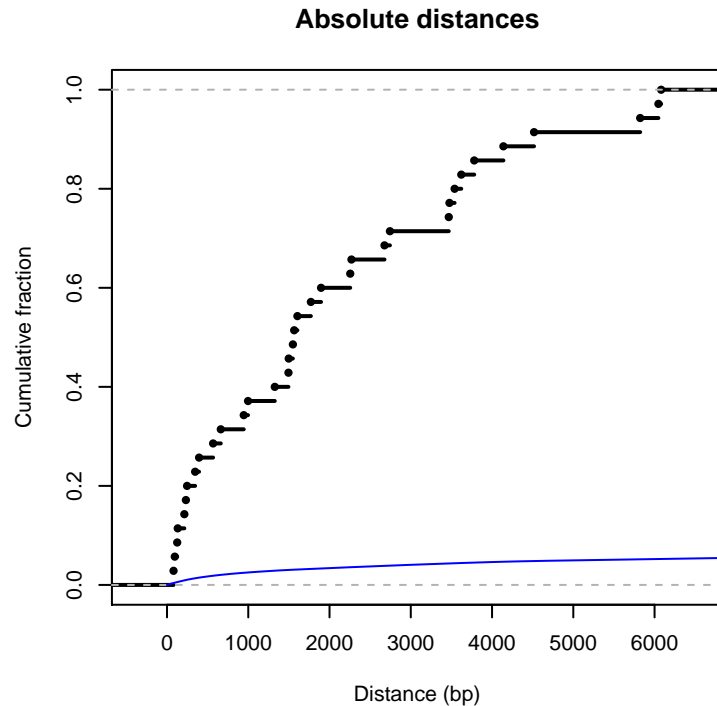
# pcontig\_103

Query population : 26  
Reference population : 89  
Relative Ks p-value : 0.222472  
Relative ecdf deviation area : 0.0349466  
Relative ecdf area correlation : -0.0302895  
Relative ecdf deviation area p-value : 0.3  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 6.27085e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 10.52



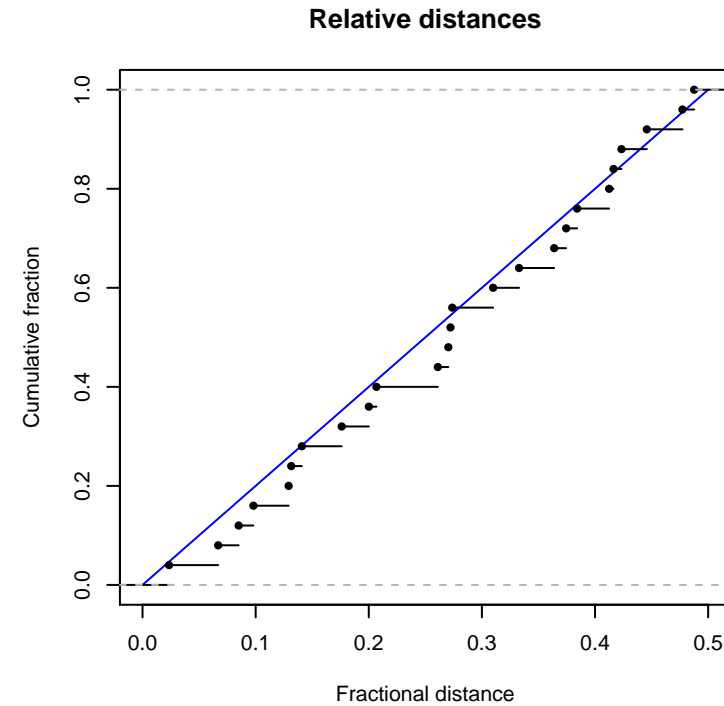
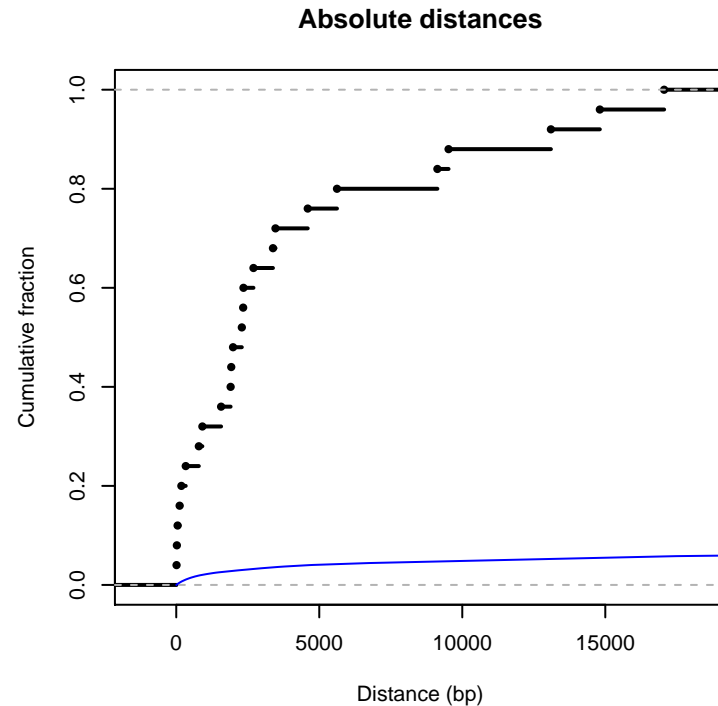
# pcontig\_104

Query population : 35  
Reference population : 91  
Relative Ks p-value : 0.842103  
Relative ecdf deviation area : 0.0151293  
Relative ecdf area correlation : 0.0112619  
Relative ecdf deviation area p-value : 0.85  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 9.99201e-15  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 16.795



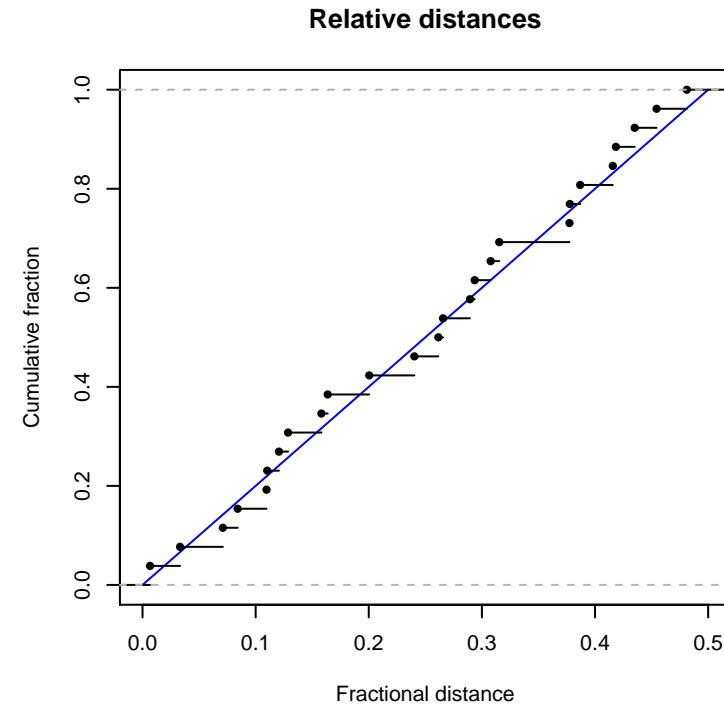
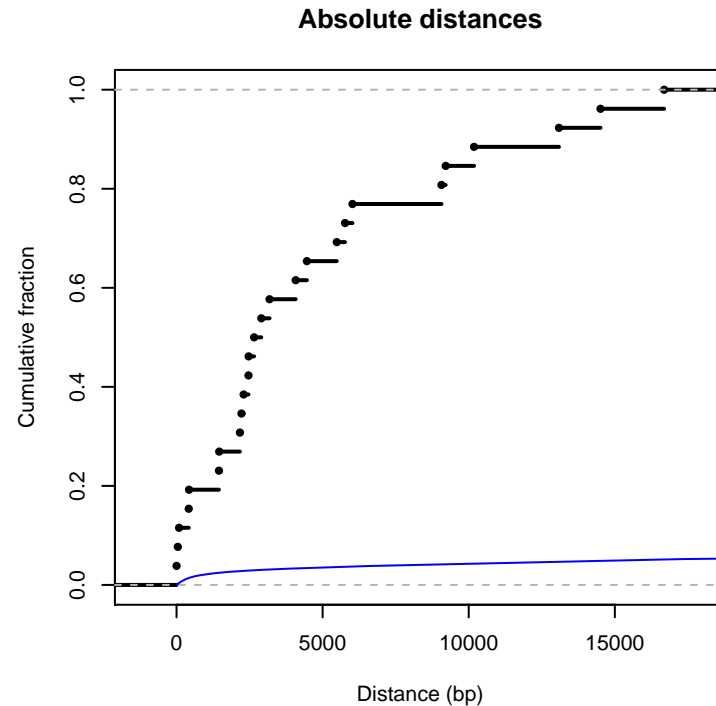
# pcontig\_106

Query population : 25  
Reference population : 75  
Relative Ks p-value : 0.807763  
Relative ecdf deviation area : 0.0215085  
Relative ecdf area correlation : -0.0820919  
Relative ecdf deviation area p-value : 0.73  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.75808e-09  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 16.9072



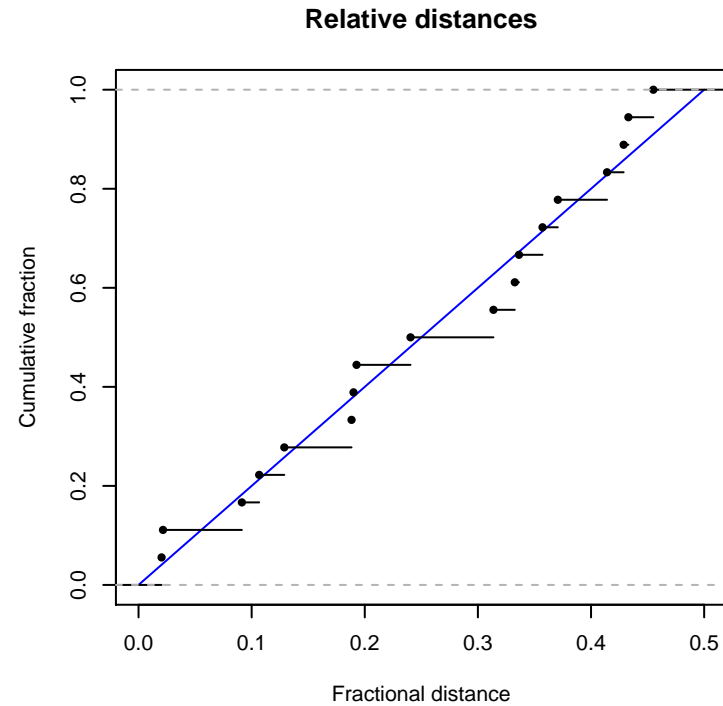
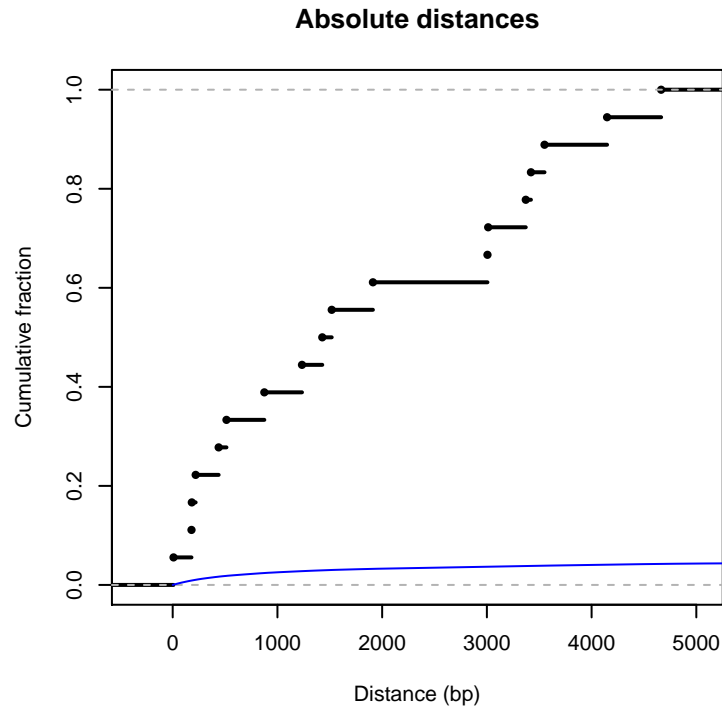
# pcontig\_110

Query population : 26  
Reference population : 85  
Relative Ks p-value : 0.99951  
Relative ecdf deviation area : 0.0126594  
Relative ecdf area correlation : -0.00102787  
Relative ecdf deviation area p-value : 1  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 7.71926e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 10.1419



# pcontig\_112

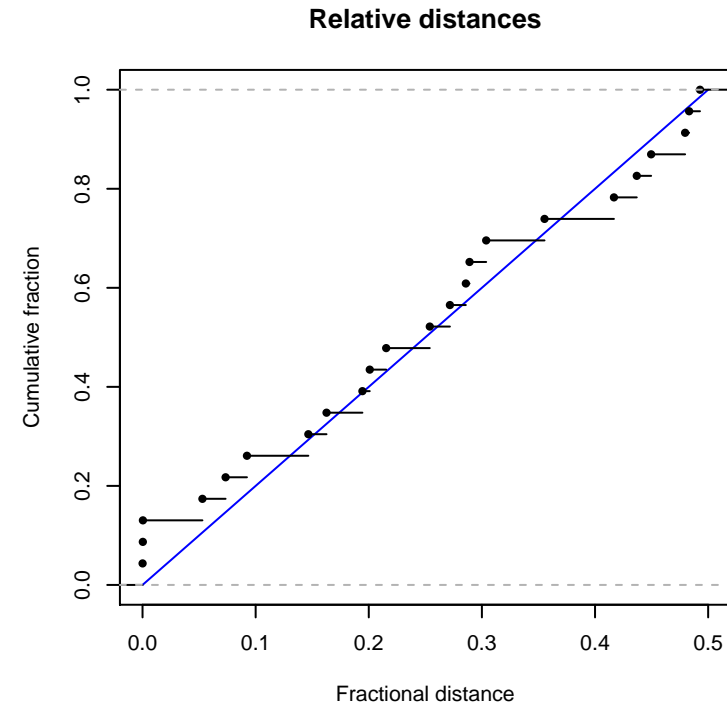
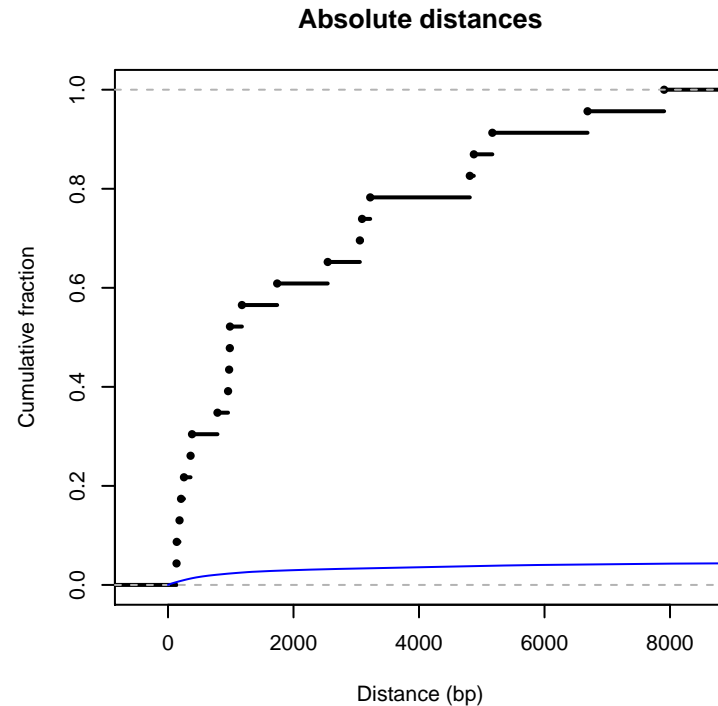
Query population : 18  
Reference population : 98  
Relative Ks p-value : 0.896449  
Relative ecdf deviation area : 0.0193732  
Relative ecdf area correlation : -0.0270963  
Relative ecdf deviation area p-value : 0.94  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.48424e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 13.3851





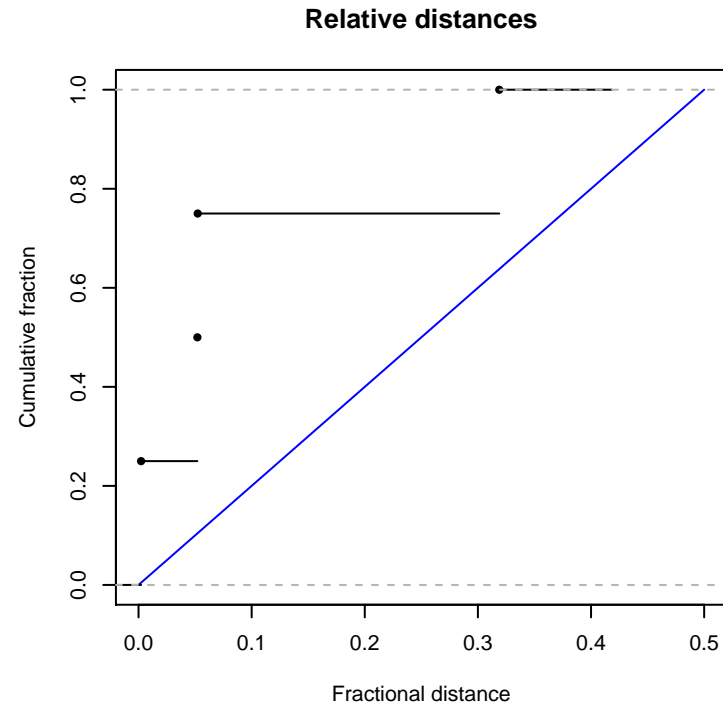
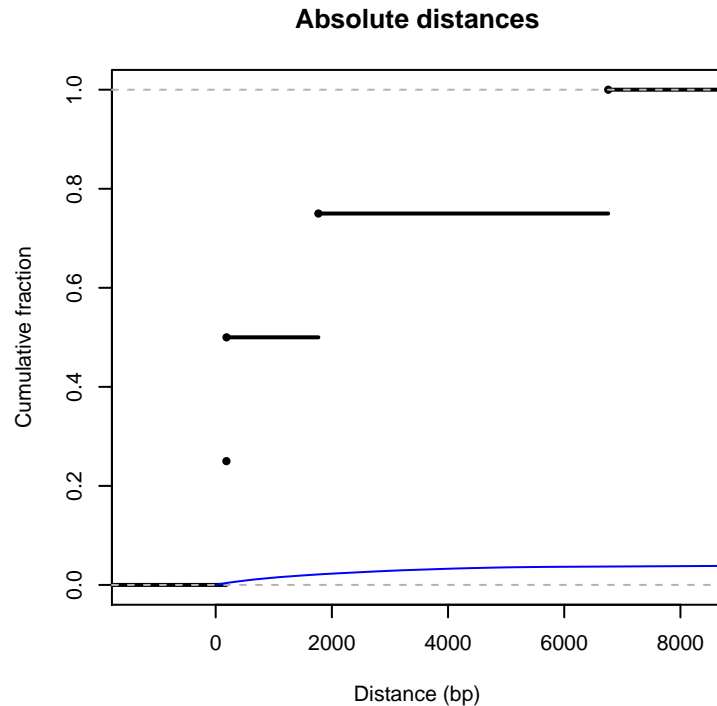
# pcontig\_115

Query population : 23  
Reference population : 100  
Relative Ks p-value : 0.787048  
Relative ecdf deviation area : 0.0207579  
Relative ecdf area correlation : 0.016045  
Relative ecdf deviation area p-value : 0.79  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.56899e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 18.8969



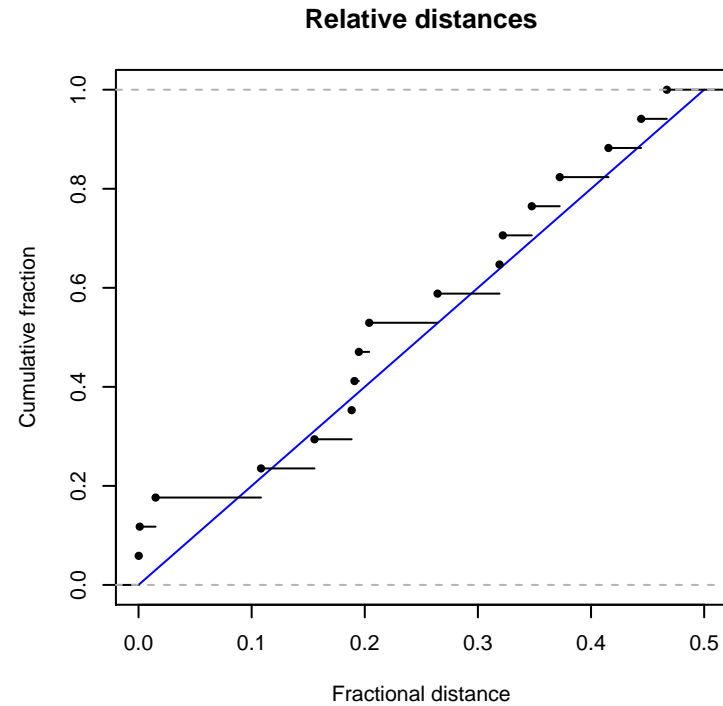
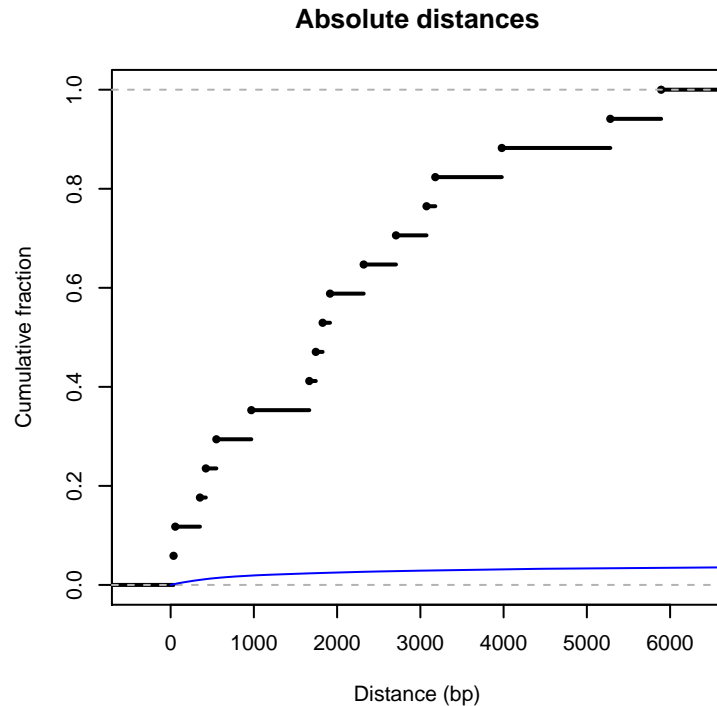
# pcontig\_118

Query population : 4  
Reference population : 41  
Relative Ks p-value : 0.0375292  
Relative ecdf deviation area : 0.143933  
Relative ecdf area correlation : 0.574507  
Relative ecdf deviation area p-value : 0.03  
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  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 28.6553



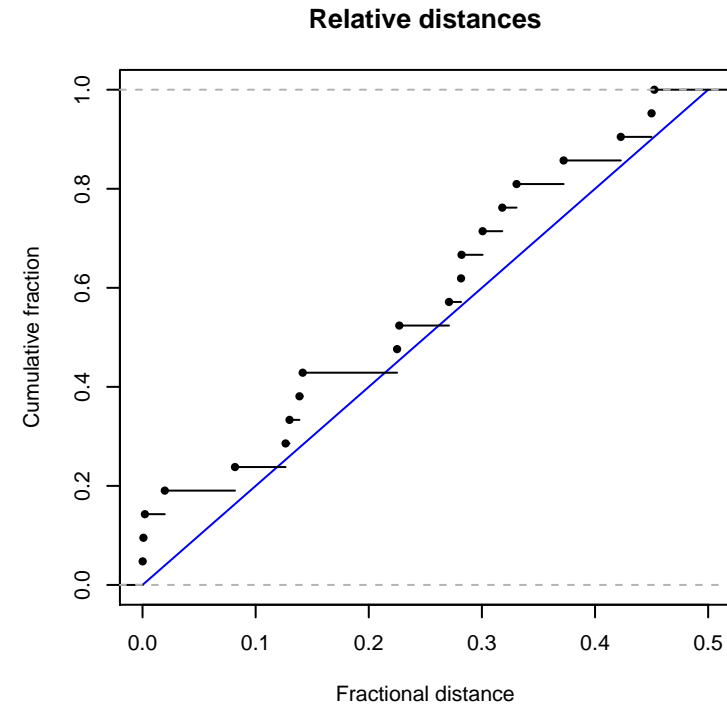
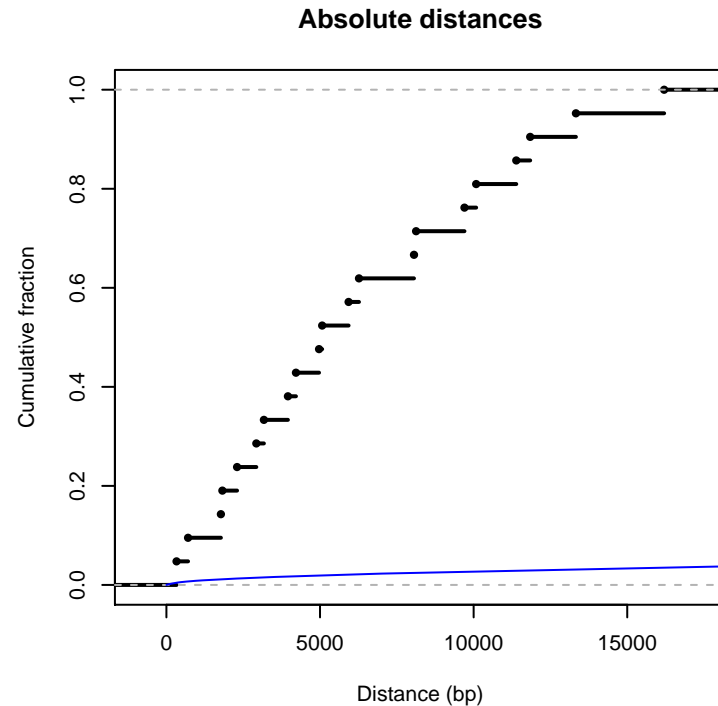
# pcontig\_120

Query population : 17  
Reference population : 64  
Relative Ks p-value : 0.810163  
Relative ecdf deviation area : 0.0229549  
Relative ecdf area correlation : 0.0563938  
Relative ecdf deviation area p-value : 0.8  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 7.11776e-09  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 20.6544



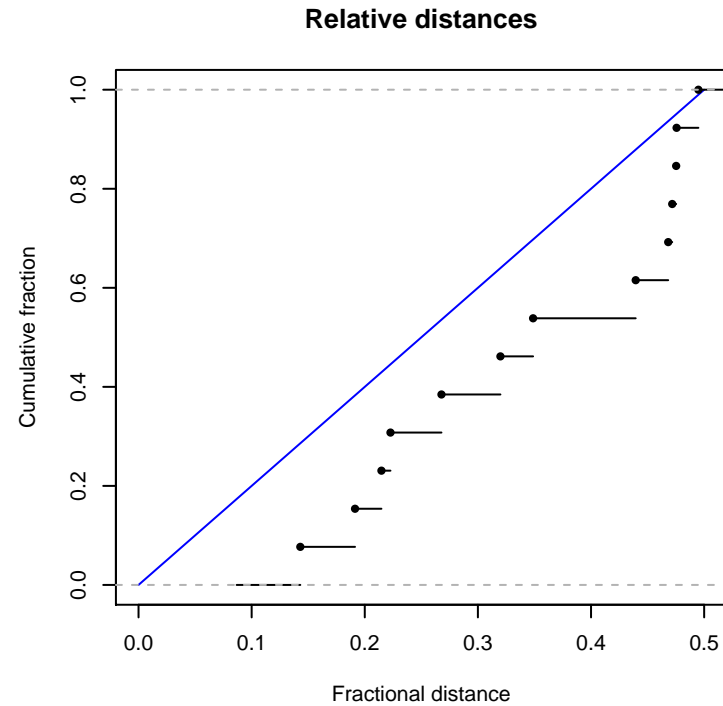
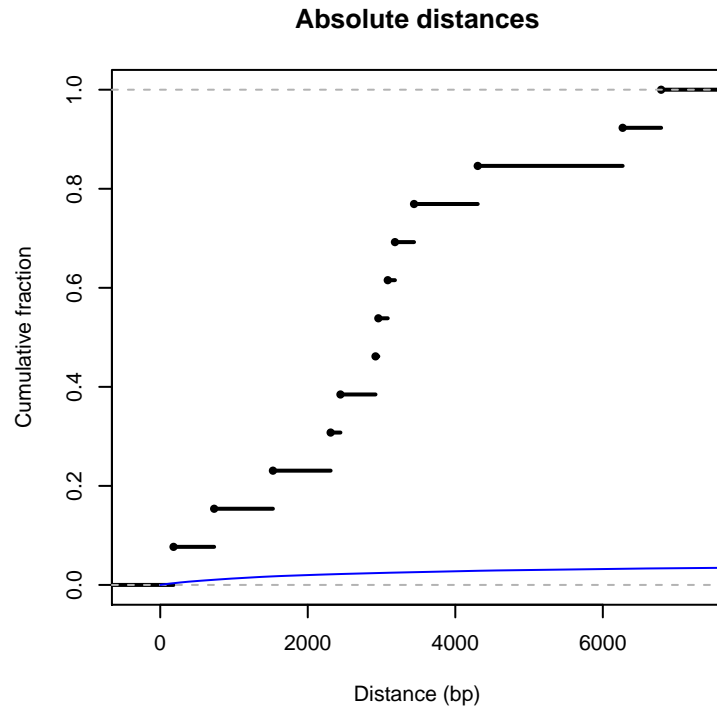
# pcontig\_129

Query population : 21  
Reference population : 34  
Relative Ks p-value : 0.669087  
Relative ecdf deviation area : 0.0326847  
Relative ecdf area correlation : 0.128689  
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 : 0.09  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00105097  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 9.86366



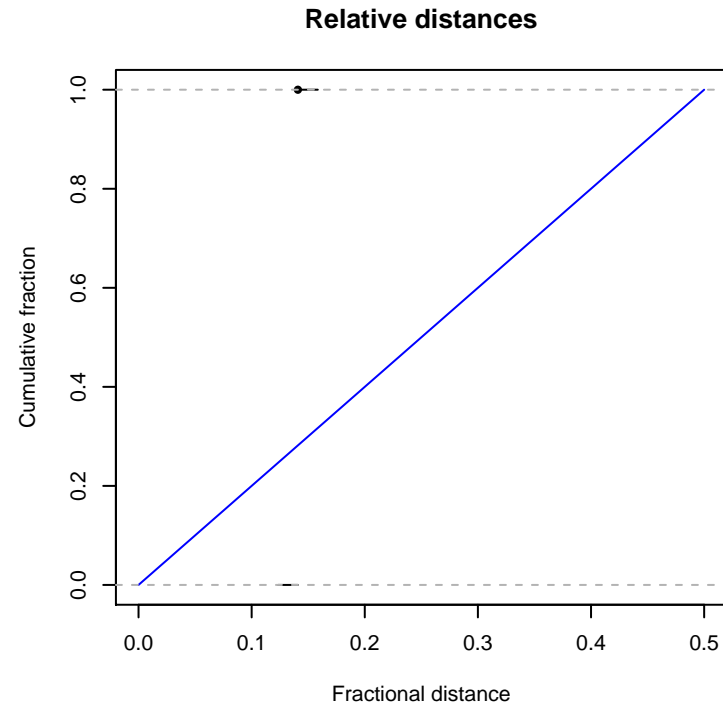
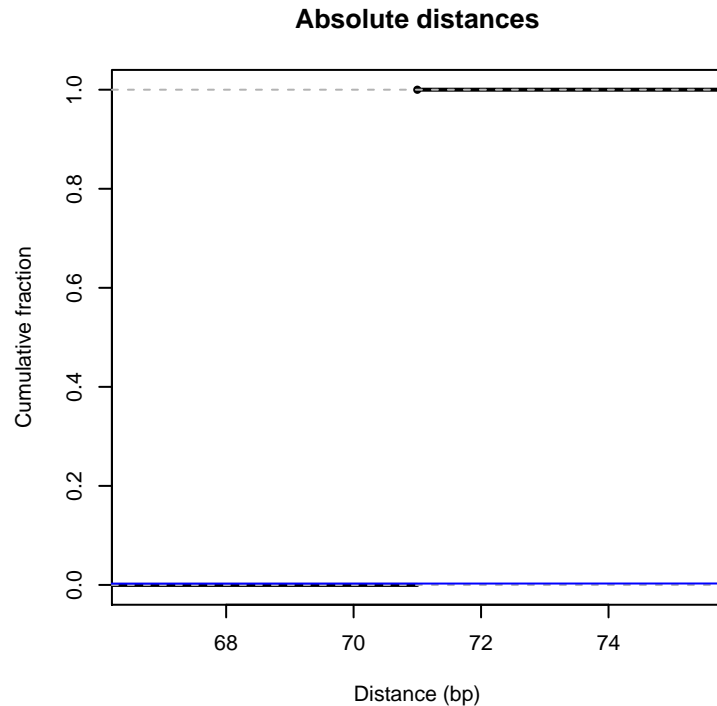
# pcontig\_130

Query population : 13  
Reference population : 36  
Relative Ks p-value : 0.0755171  
Relative ecdf deviation area : 0.0980859  
Relative ecdf area correlation : -0.394965  
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  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 38.1183



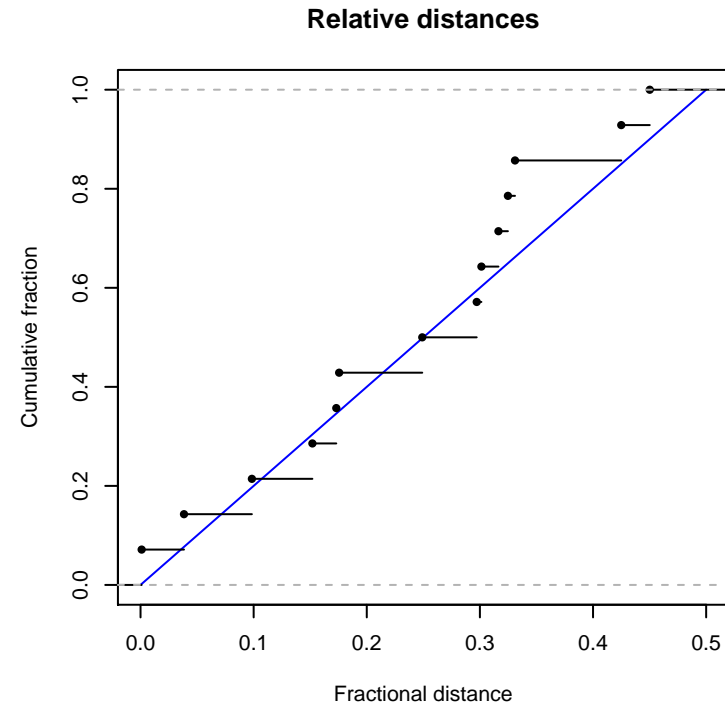
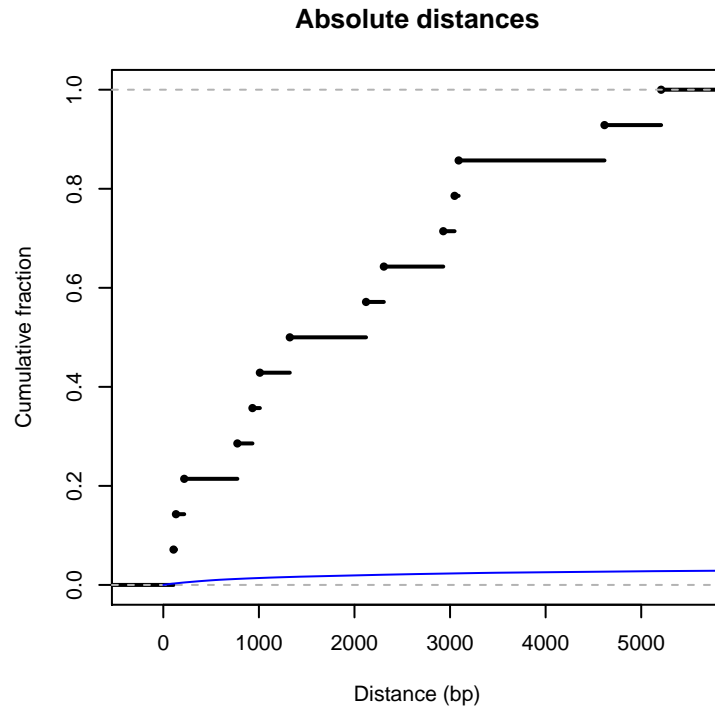
# pcontig\_134

Query population : 1  
Reference population : 69  
Relative Ks p-value : 0.563492  
Relative ecdf deviation area : 0.148922  
Relative ecdf area correlation : 0.436508  
Relative ecdf deviation area p-value : 0.49  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 35.2867



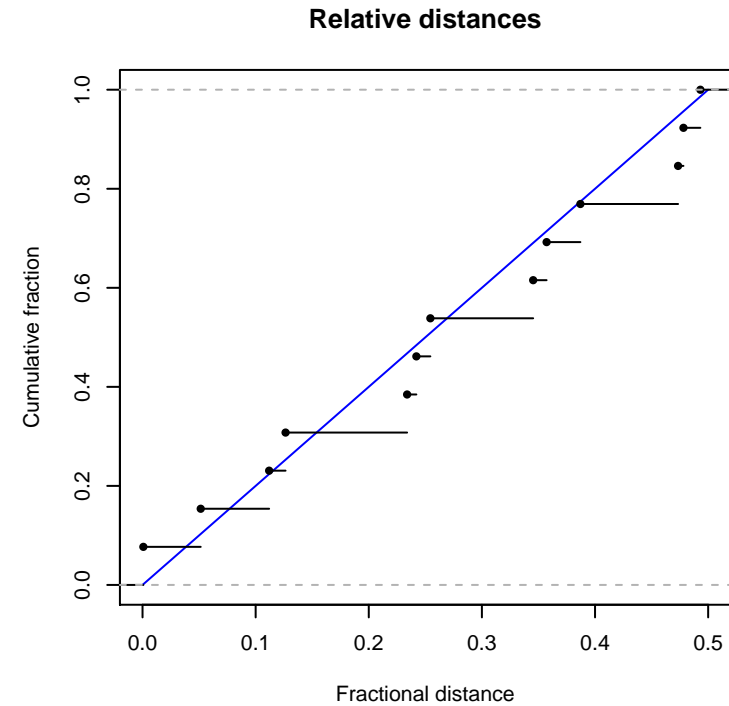
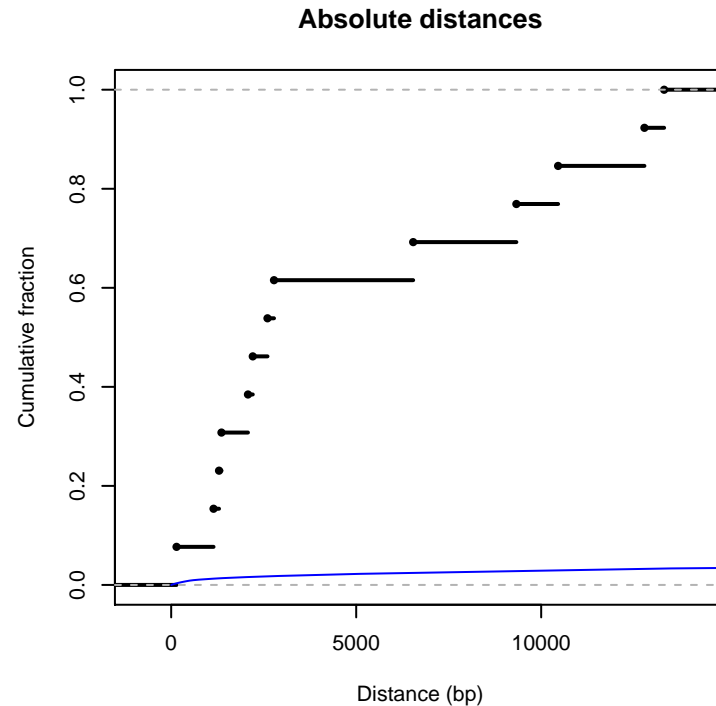
# pcontig\_138

Query population : 14  
Reference population : 48  
Relative Ks p-value : 0.594077  
Relative ecdf deviation area : 0.0264285  
Relative ecdf area correlation : 0.0476361  
Relative ecdf deviation area p-value : 0.79  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 8.60509e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 21.8204



# pcontig\_139

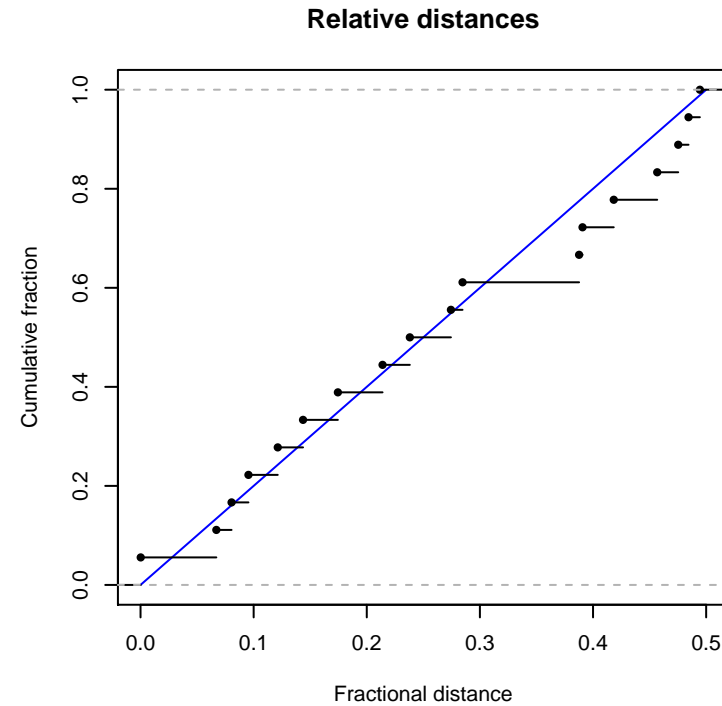
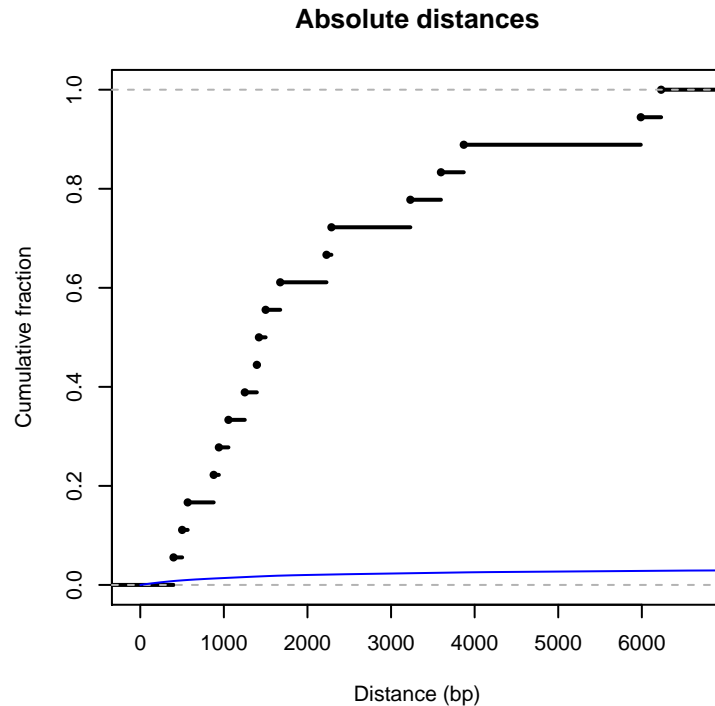
Query population : 13  
Reference population : 45  
Relative Ks p-value : 0.74447  
Relative ecdf deviation area : 0.029964  
Relative ecdf area correlation : -0.0939192  
Relative ecdf deviation area p-value : 0.84  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.87037e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 36.2245





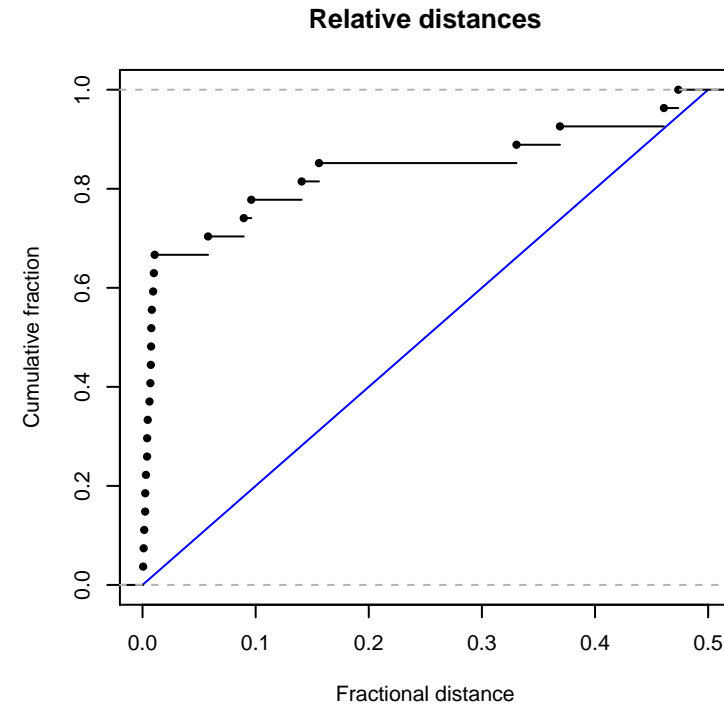
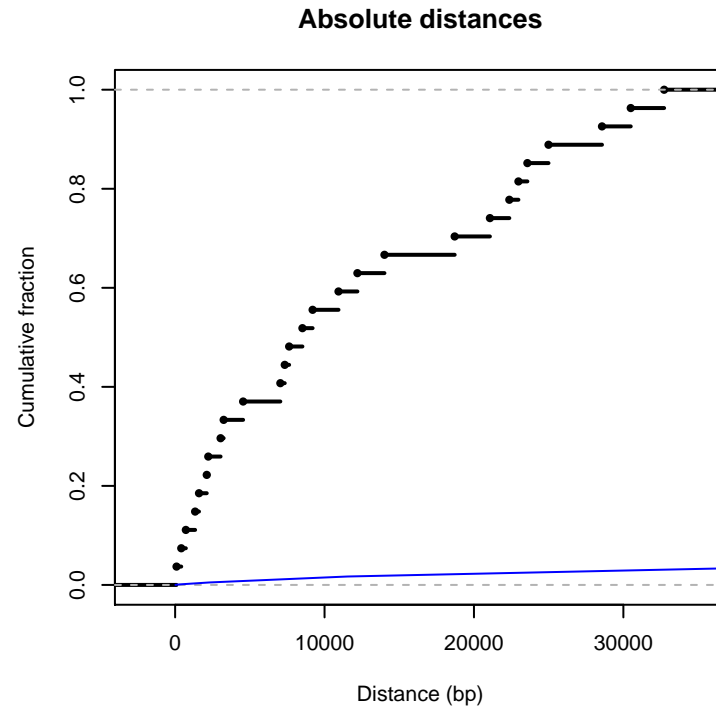
# pcontig\_140

Query population : 18  
Reference population : 40  
Relative Ks p-value : 0.657408  
Relative ecdf deviation area : 0.0221233  
Relative ecdf area correlation : -0.0669475  
Relative ecdf deviation area p-value : 0.84  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000107149  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 11.7065



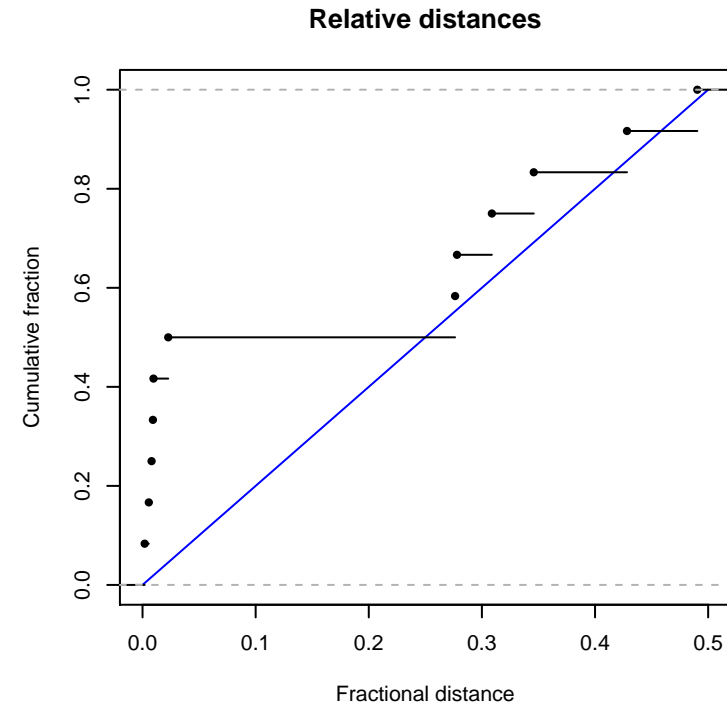
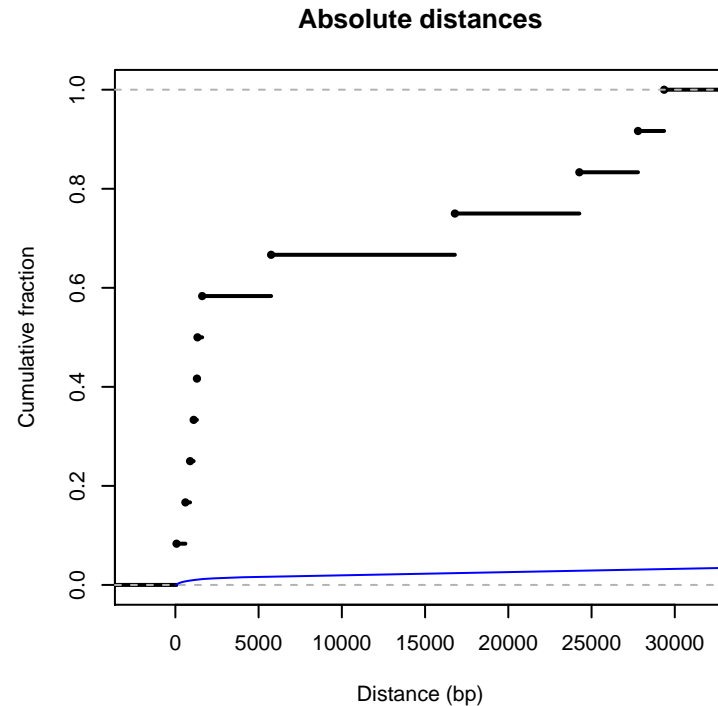
# pcontig\_146

Query population : 27  
Reference population : 8  
Relative Ks p-value : 1.74687e-11  
Relative ecdf deviation area : 0.166193  
Relative ecdf area correlation : 0.663437  
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 : 0.000705541  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 25.8132



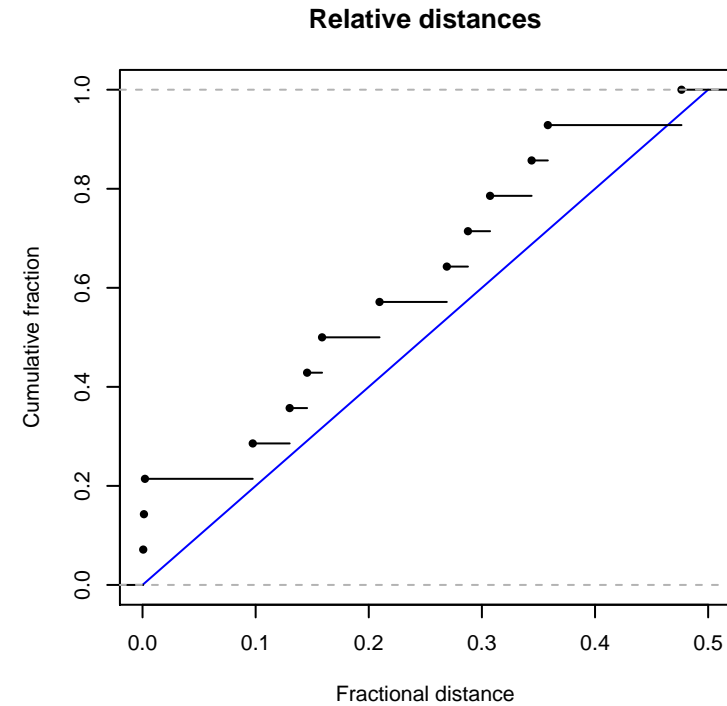
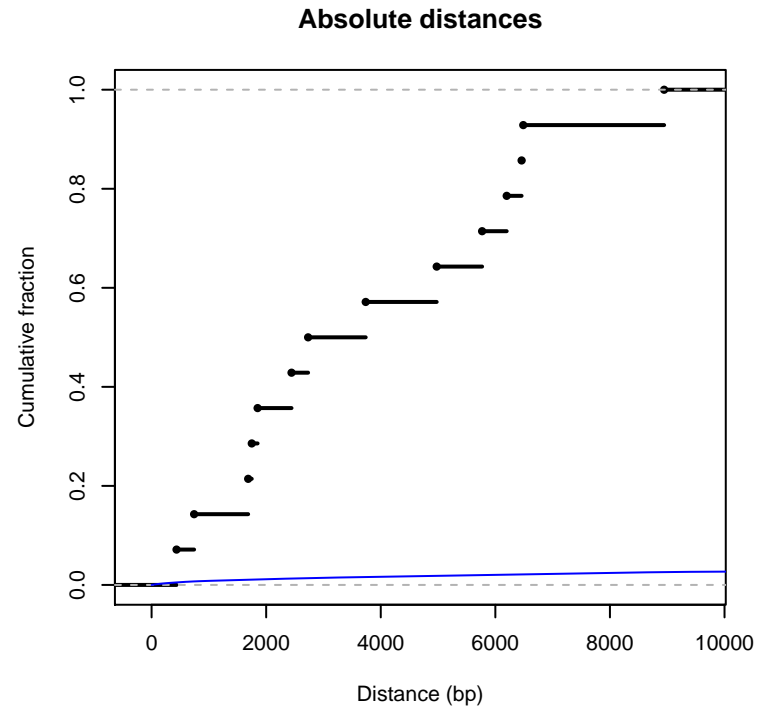
# pcontig\_147

Query population : 12  
Reference population : 30  
Relative Ks p-value : 0.00874785  
Relative ecdf deviation area : 0.0712803  
Relative ecdf area correlation : 0.271786  
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 : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.49302e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 33.3313



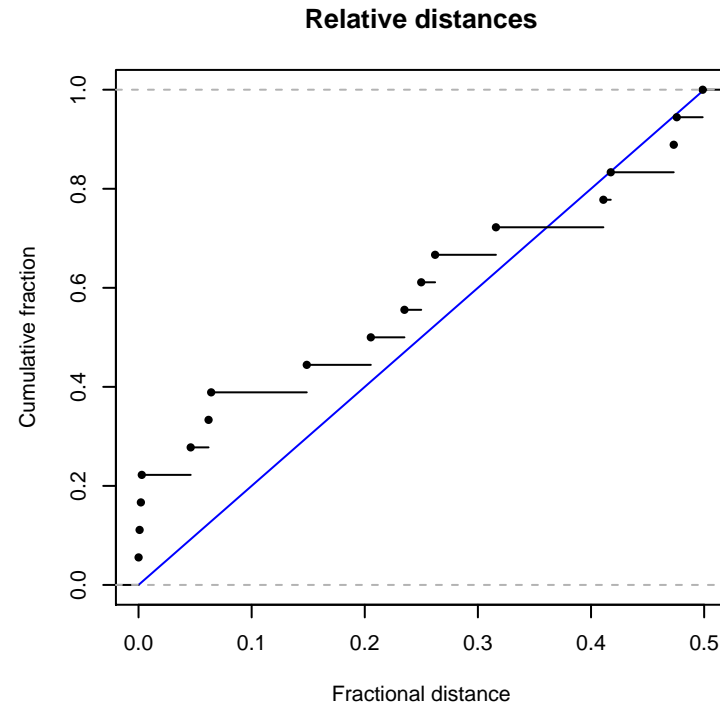
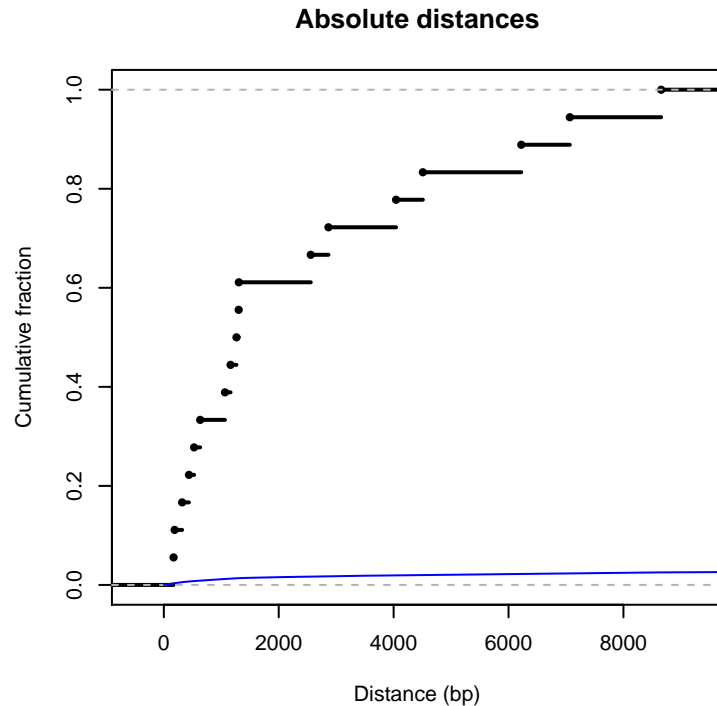
# pcontig\_148

Query population : 14  
Reference population : 32  
Relative Ks p-value : 0.490047  
Relative ecdf deviation area : 0.0508709  
Relative ecdf area correlation : 0.203485  
Relative ecdf deviation area p-value : 0.18  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.53848e-09  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 36.3167



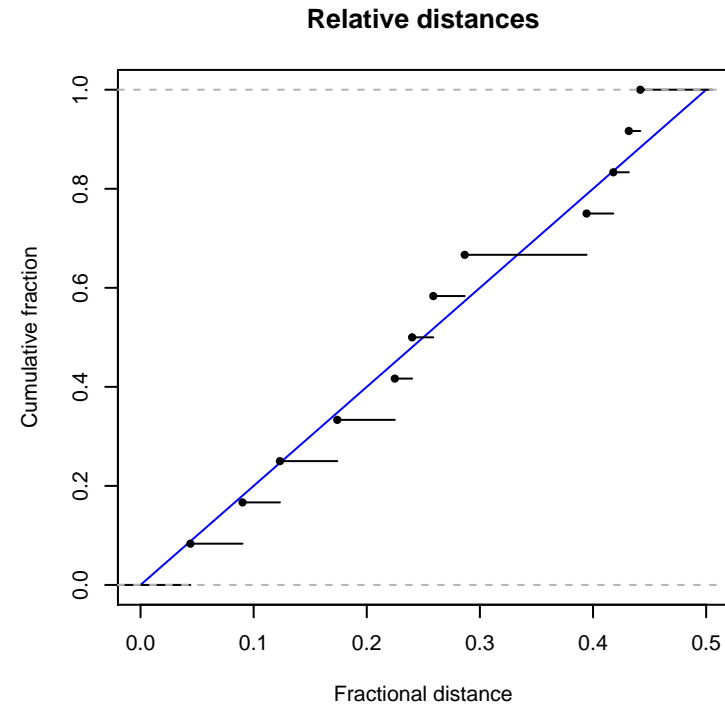
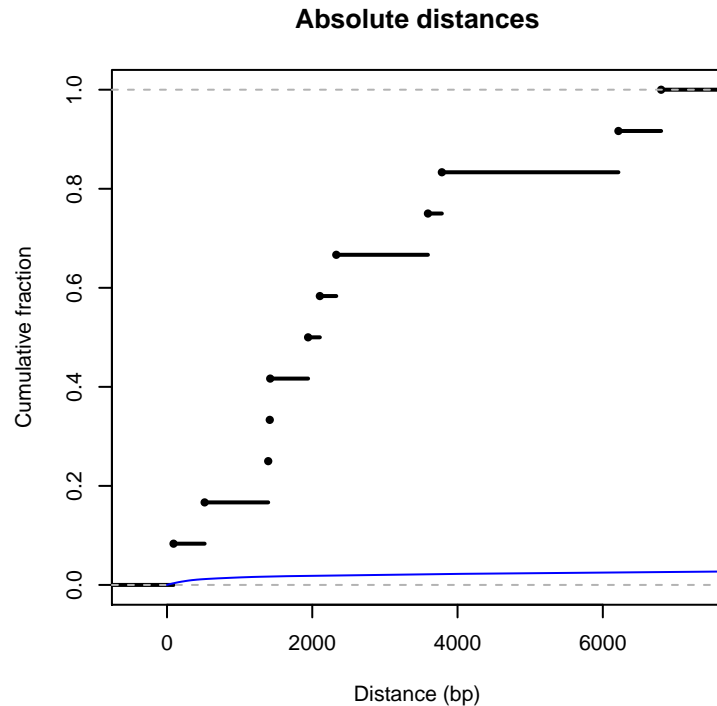
# pcontig\_149

Query population : 18  
Reference population : 42  
Relative Ks p-value : 0.144753  
Relative ecdf deviation area : 0.0485241  
Relative ecdf area correlation : 0.139698  
Relative ecdf deviation area p-value : 0.21  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.00969e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 34.5928



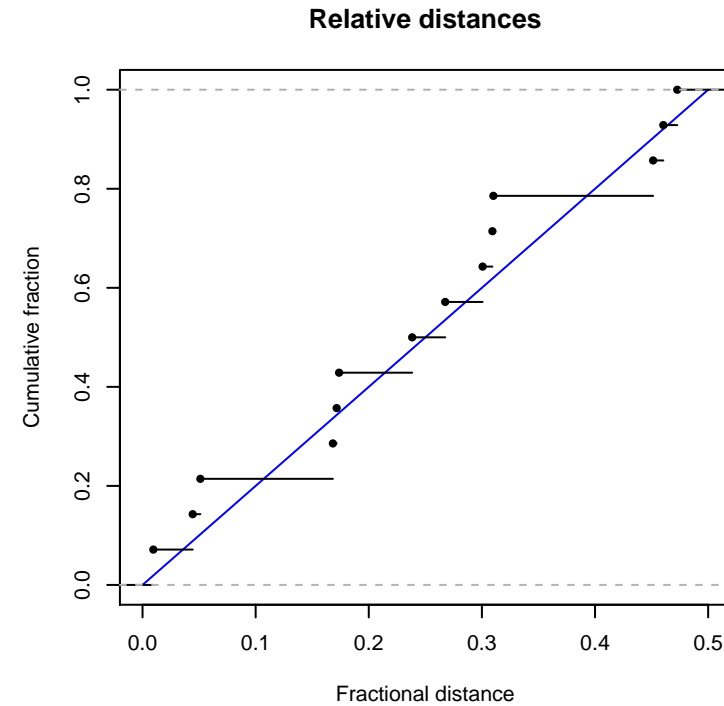
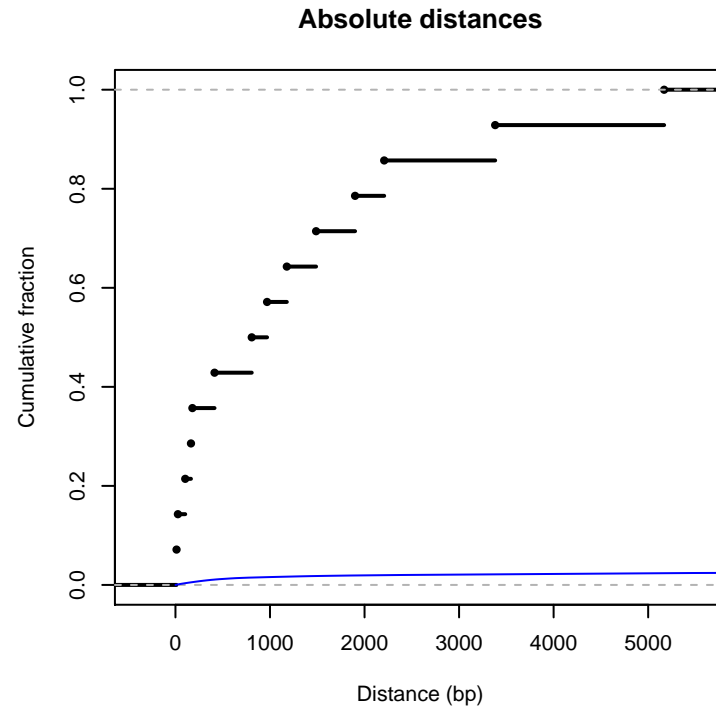
# pcontig\_150

Query population : 12  
Reference population : 66  
Relative Ks p-value : 0.984435  
Relative ecdf deviation area : 0.0251798  
Relative ecdf area correlation : -0.0424346  
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 : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000492898  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 12.3555



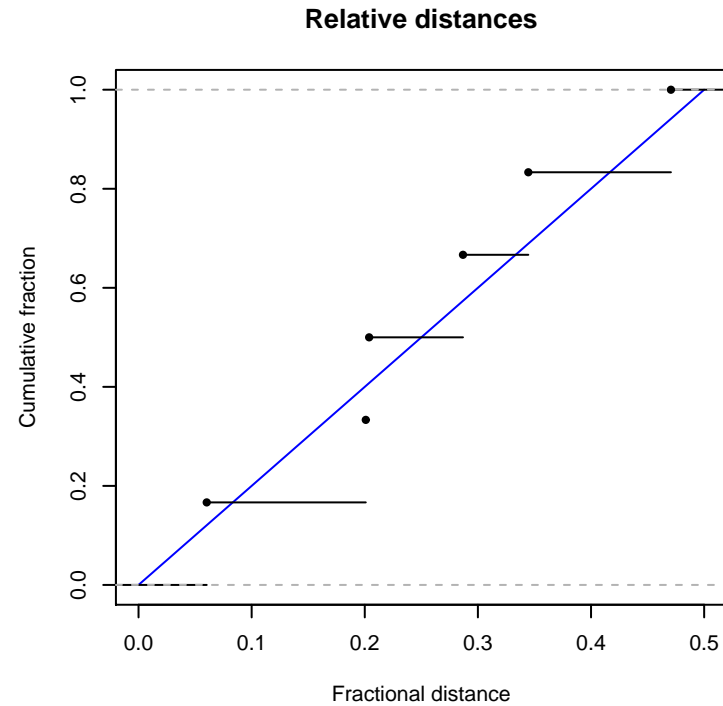
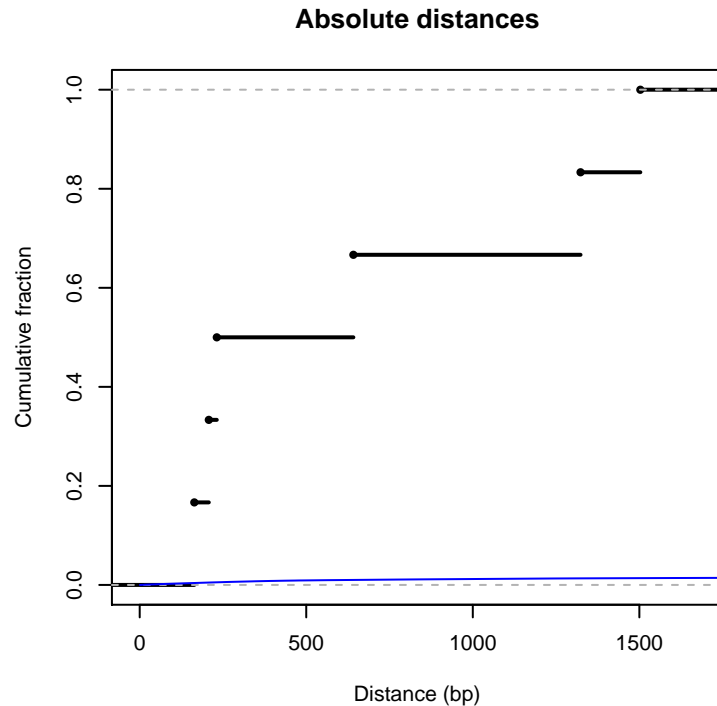
# pcontig\_152

Query population : 14  
Reference population : 64  
Relative Ks p-value : 0.781288  
Relative ecdf deviation area : 0.0239383  
Relative ecdf area correlation : 0.0202621  
Relative ecdf deviation area p-value : 0.91  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.63544e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 29.1676



# pcontig\_154

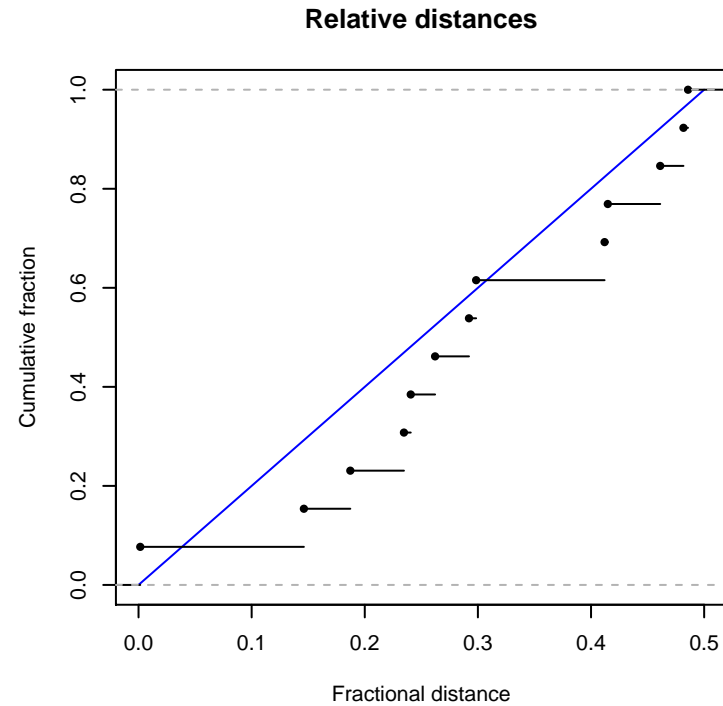
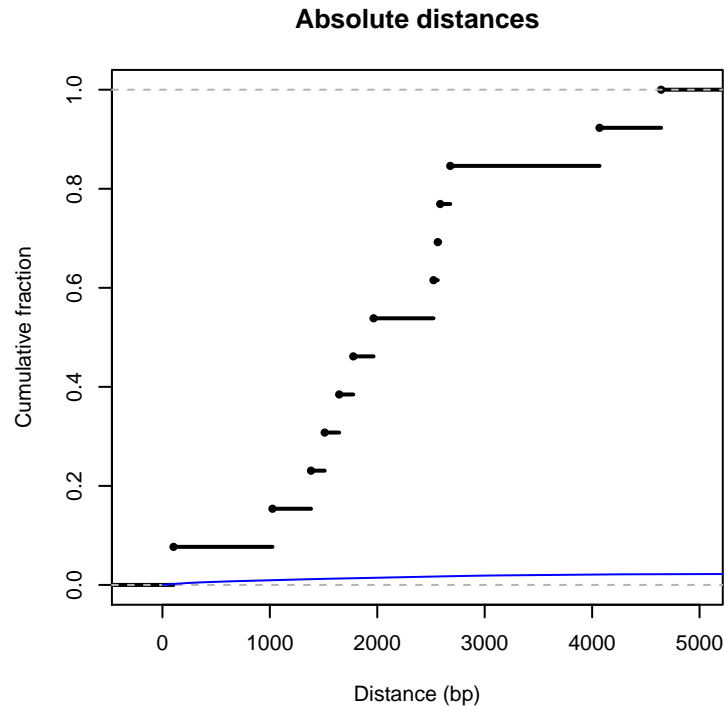
Query population : 6  
Reference population : 46  
Relative Ks p-value : 0.827195  
Relative ecdf deviation area : 0.0329144  
Relative ecdf area correlation : -0.0446776  
Relative ecdf deviation area p-value : 0.9  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.38085e-05  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 31.1999





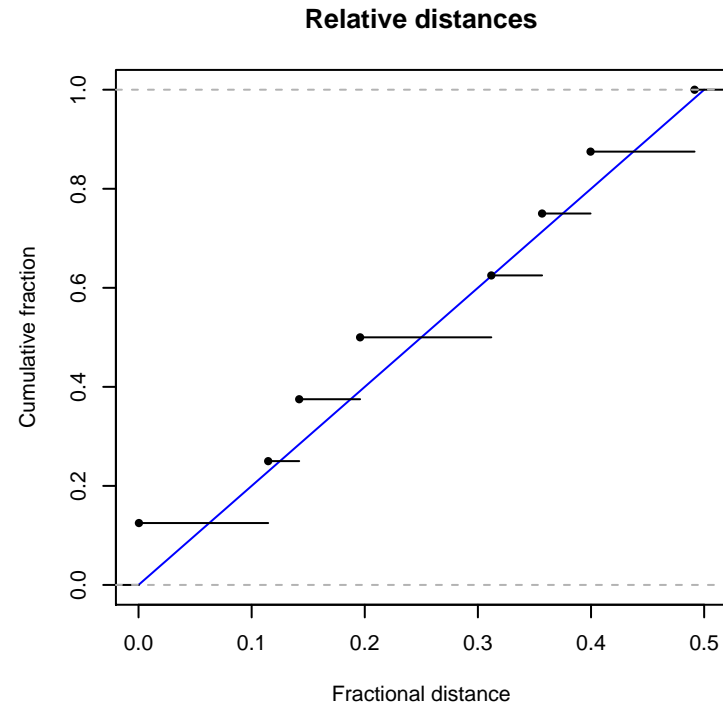
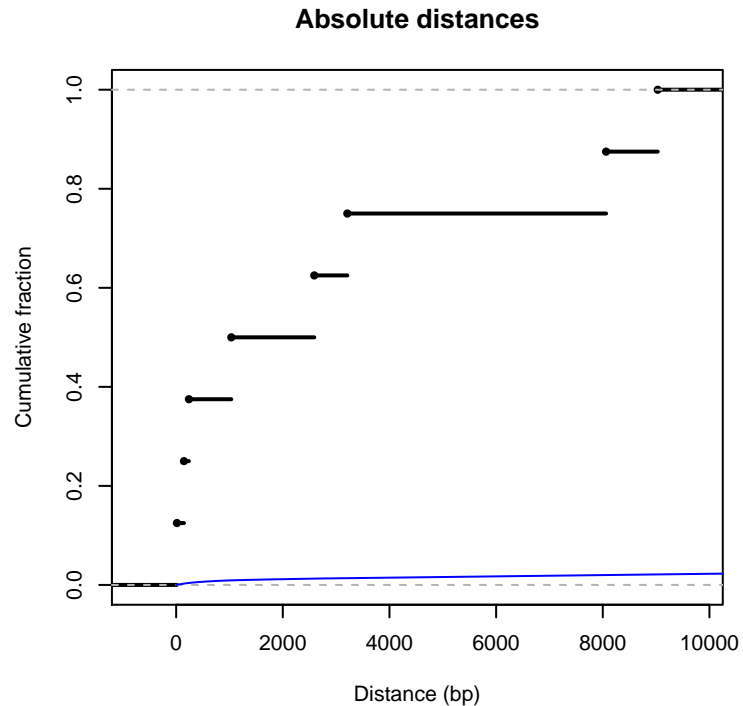
# pcontig\_157

Query population : 13  
Reference population : 33  
Relative Ks p-value : 0.388722  
Relative ecdf deviation area : 0.0544983  
Relative ecdf area correlation : -0.205645  
Relative ecdf deviation area p-value : 0.16  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 51.0088



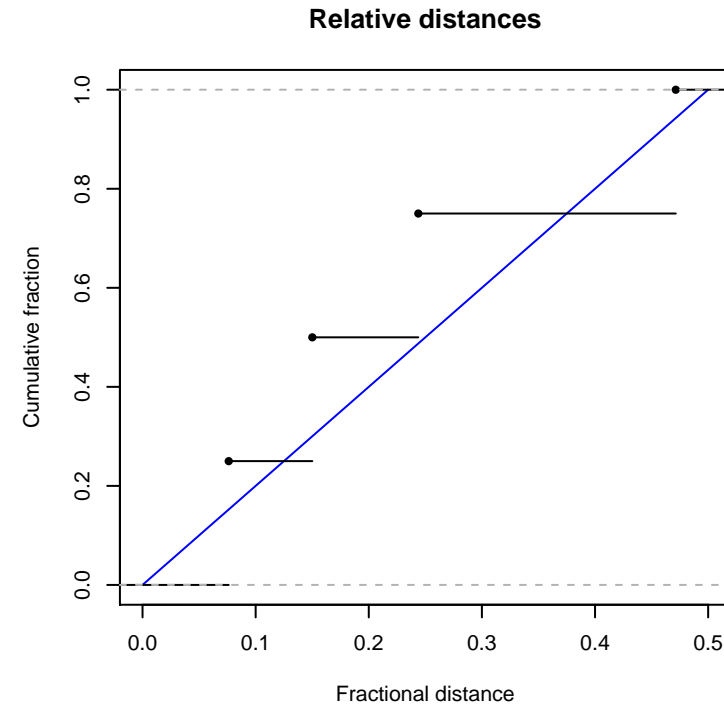
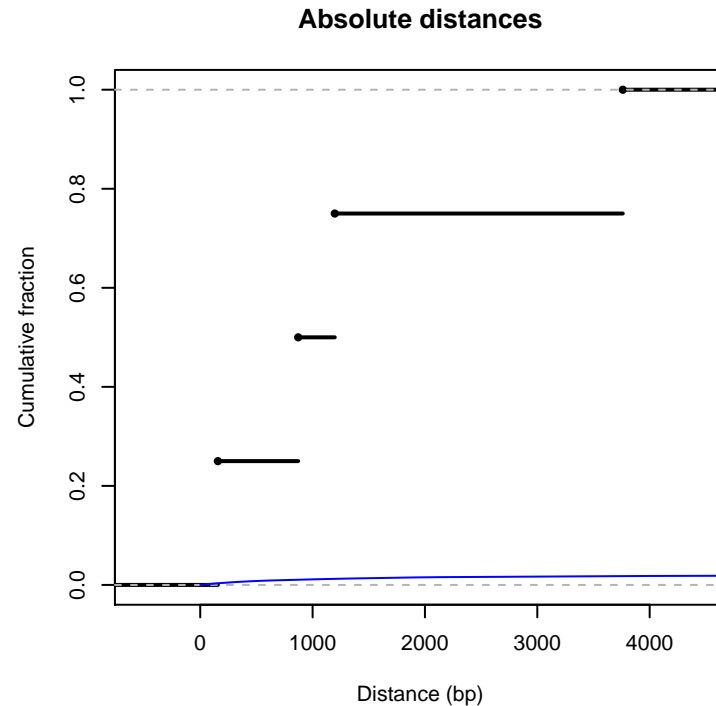
# pcontig\_163

Query population : 8  
Reference population : 38  
Relative Ks p-value : 0.9978  
Relative ecdf deviation area : 0.0231609  
Relative ecdf area correlation : -0.00625702  
Relative ecdf deviation area p-value : 0.99  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.93723e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 46.2913



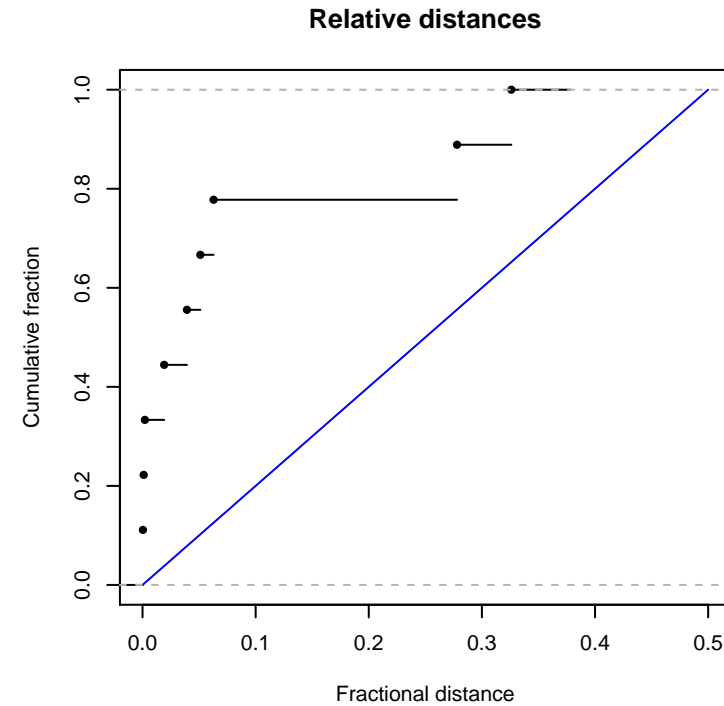
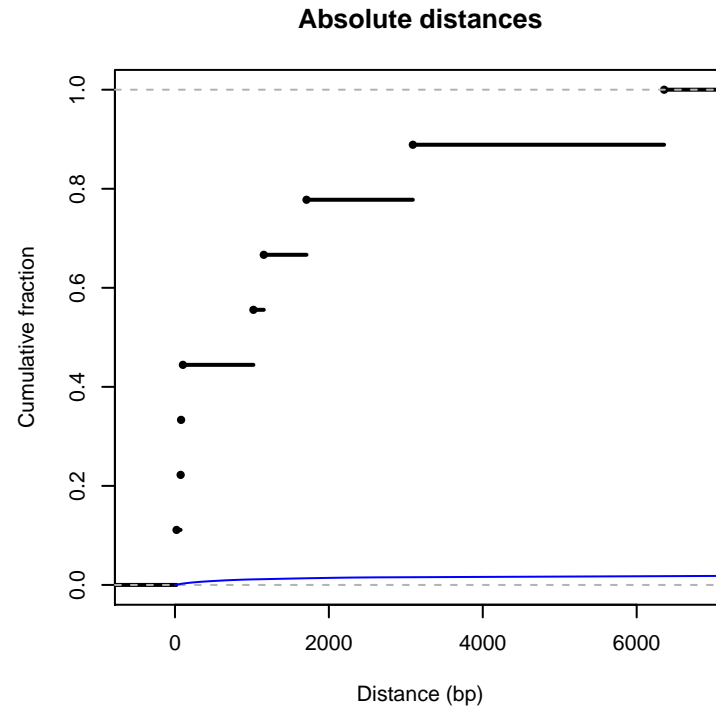
# pcontig\_164

Query population : 4  
Reference population : 42  
Relative Ks p-value : 0.876681  
Relative ecdf deviation area : 0.0459727  
Relative ecdf area correlation : 0.0585425  
Relative ecdf deviation area p-value : 0.88  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 72.547



# pcontig\_165

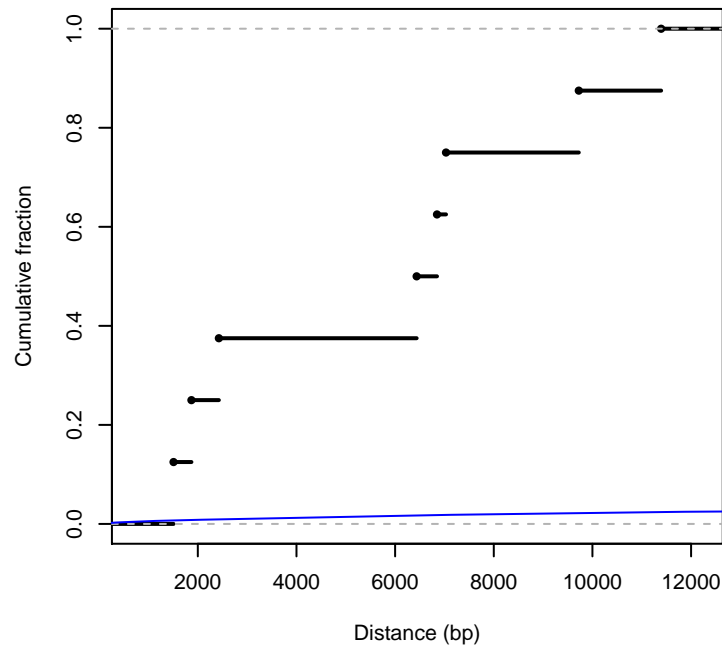
Query population : 9  
Reference population : 51  
Relative Ks p-value : 0.000284759  
Relative ecdf deviation area : 0.163171  
Relative ecdf area correlation : 0.653405  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.36032e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 51.0268



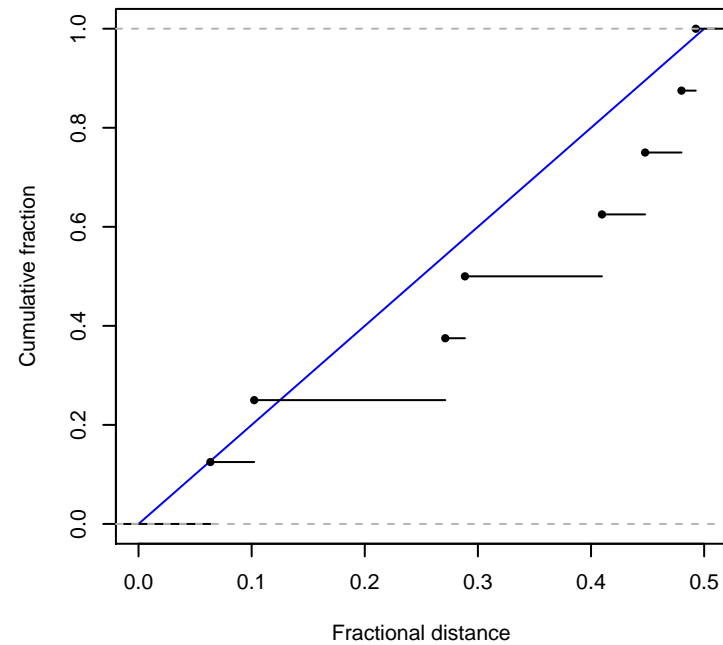
# pcontig\_166

Query population : 8  
Reference population : 17  
Relative Ks p-value : 0.317241  
Relative ecdf deviation area : 0.0705574  
Relative ecdf area correlation : -0.27778  
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 : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0426892  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

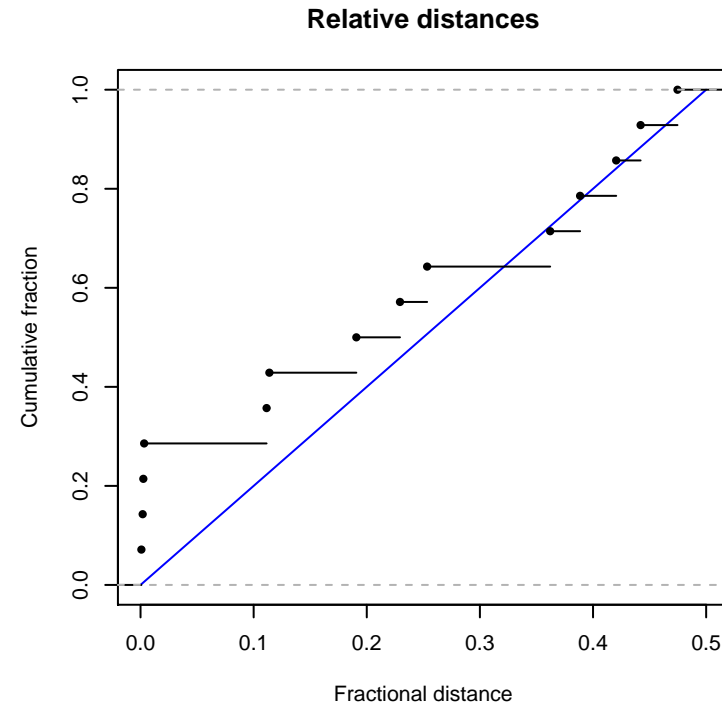
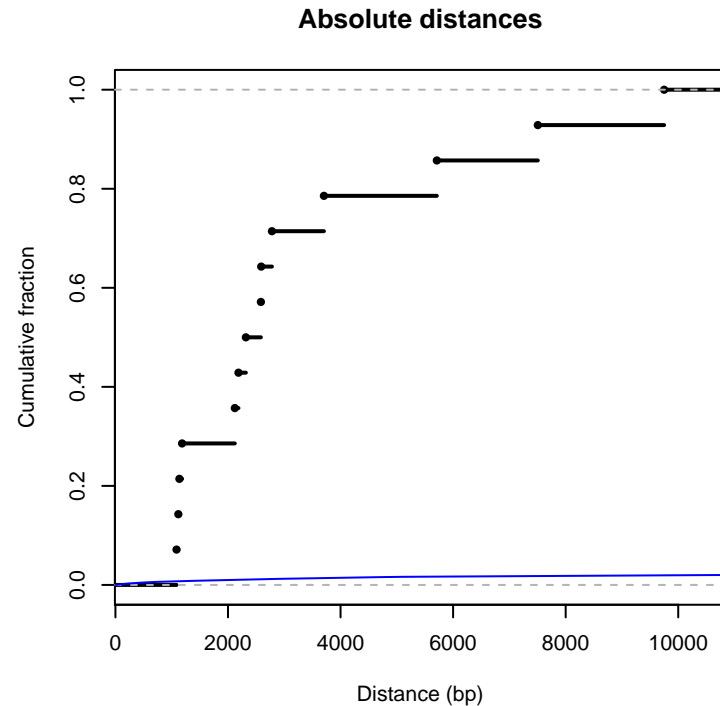


Relative distances



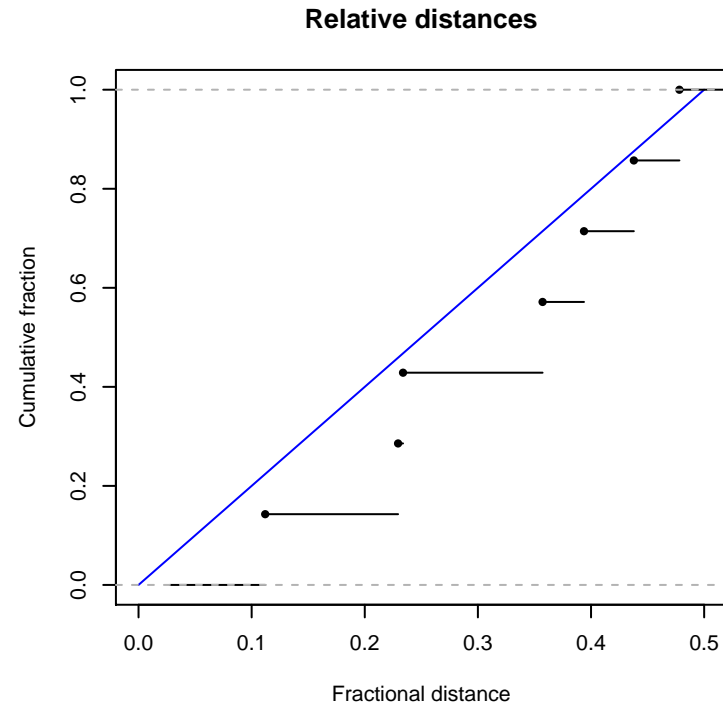
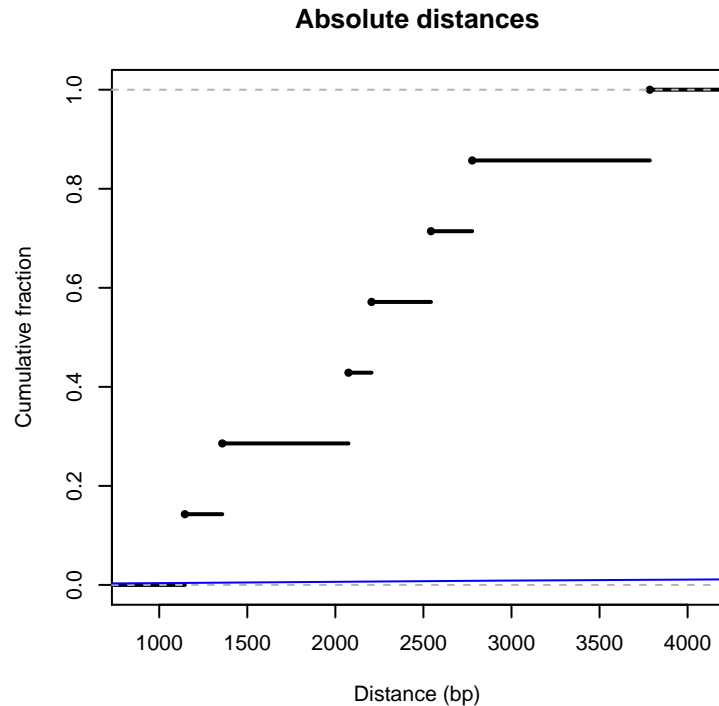
# pcontig\_170

Query population : 14  
Reference population : 25  
Relative Ks p-value : 0.185665  
Relative ecdf deviation area : 0.0435142  
Relative ecdf area correlation : 0.144266  
Relative ecdf deviation area p-value : 0.32  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.02469e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 40.2072



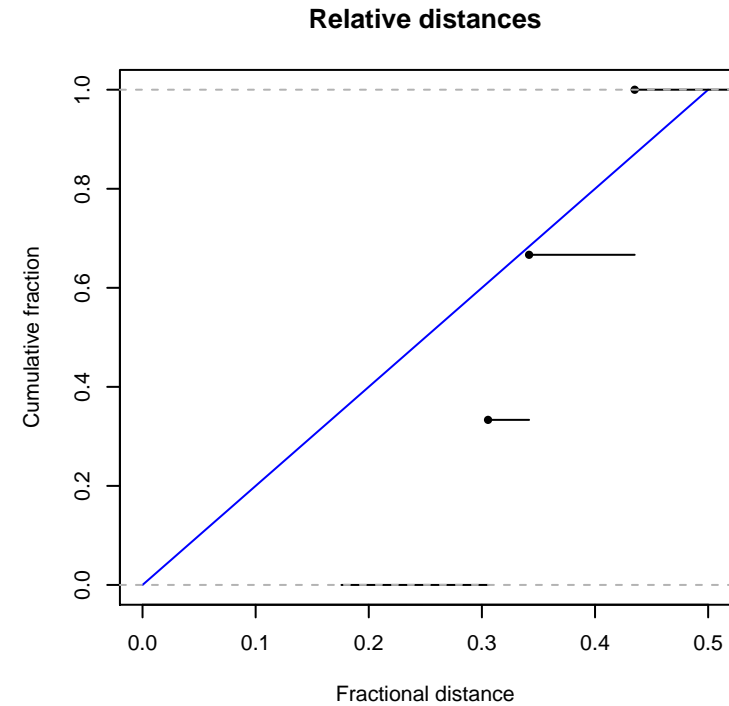
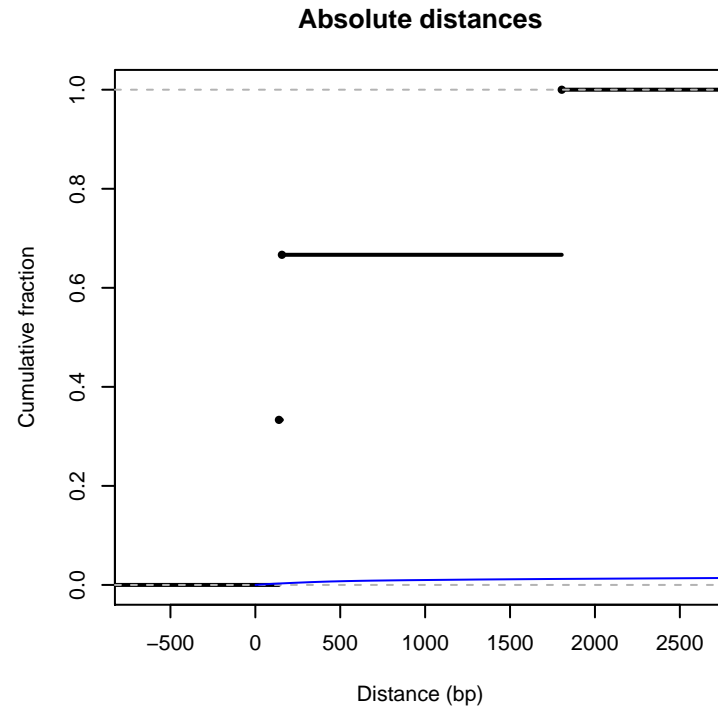
# pcontig\_171

Query population : 7  
Reference population : 13  
Relative Ks p-value : 0.403378  
Relative ecdf deviation area : 0.0713951  
Relative ecdf area correlation : -0.281238  
Relative ecdf deviation area p-value : 0.26  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.10201e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 97.1028



# pcontig\_172

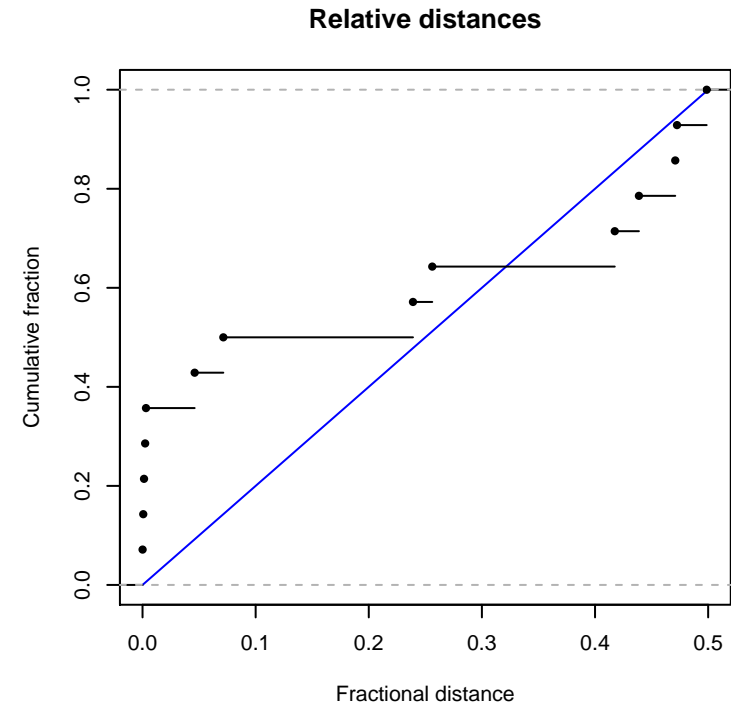
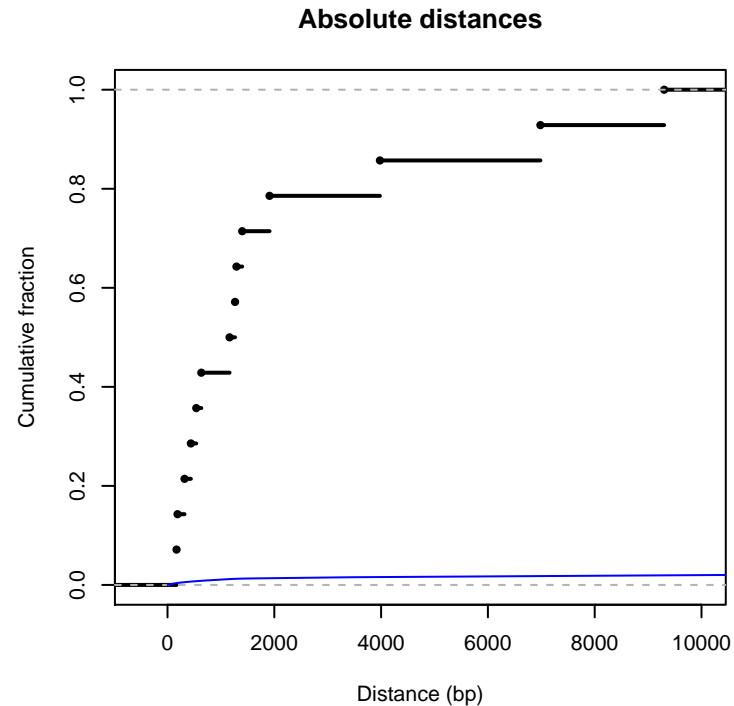
Query population : 3  
Reference population : 40  
Relative Ks p-value : 0.129261  
Relative ecdf deviation area : 0.118858  
Relative ecdf area correlation : -0.442922  
Relative ecdf deviation area p-value : 0.15  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 62.9765





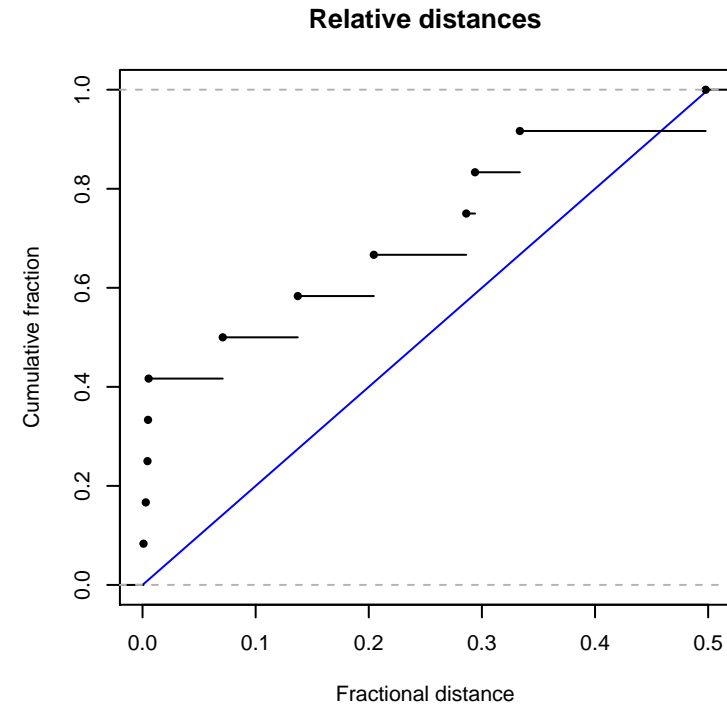
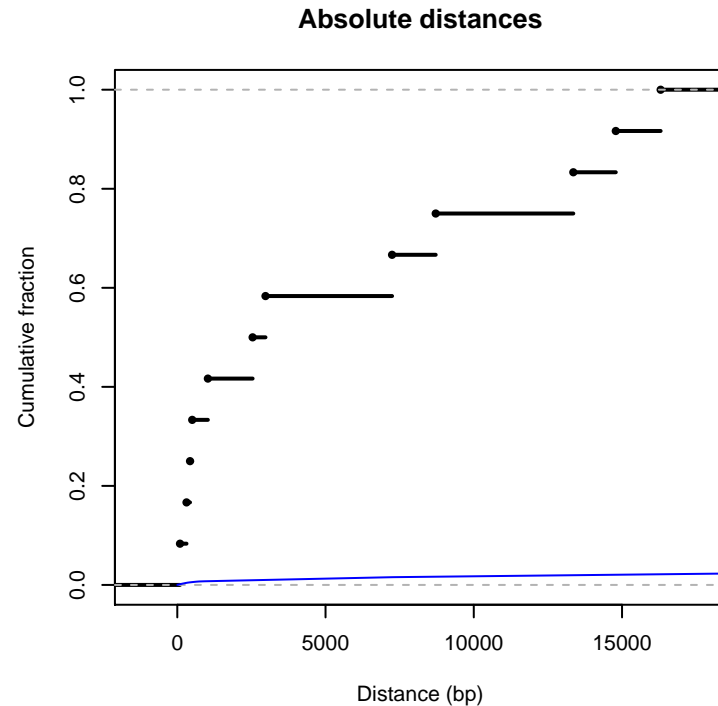
# pcontig\_173

Query population : 14  
Reference population : 45  
Relative Ks p-value : 0.0419014  
Relative ecdf deviation area : 0.0766545  
Relative ecdf area correlation : 0.166165  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 6.58806e-13  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 44.9869



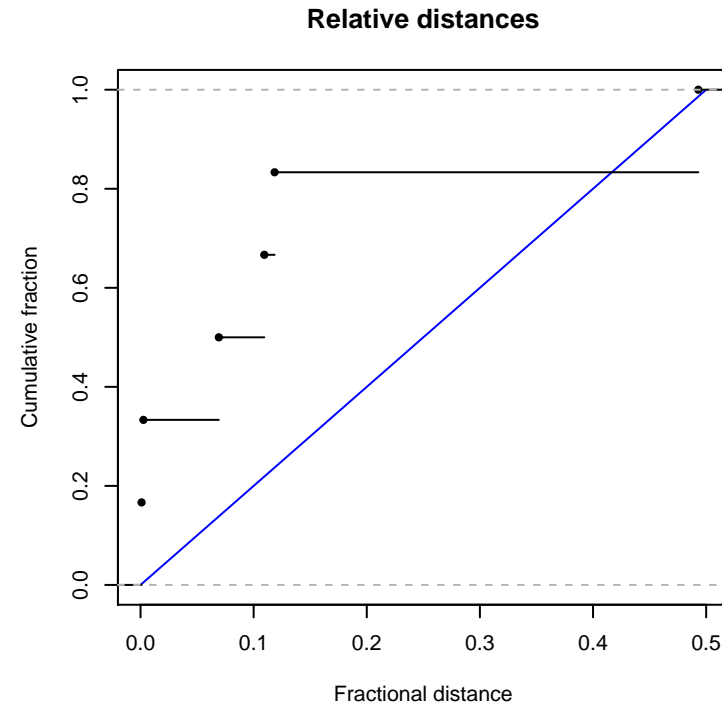
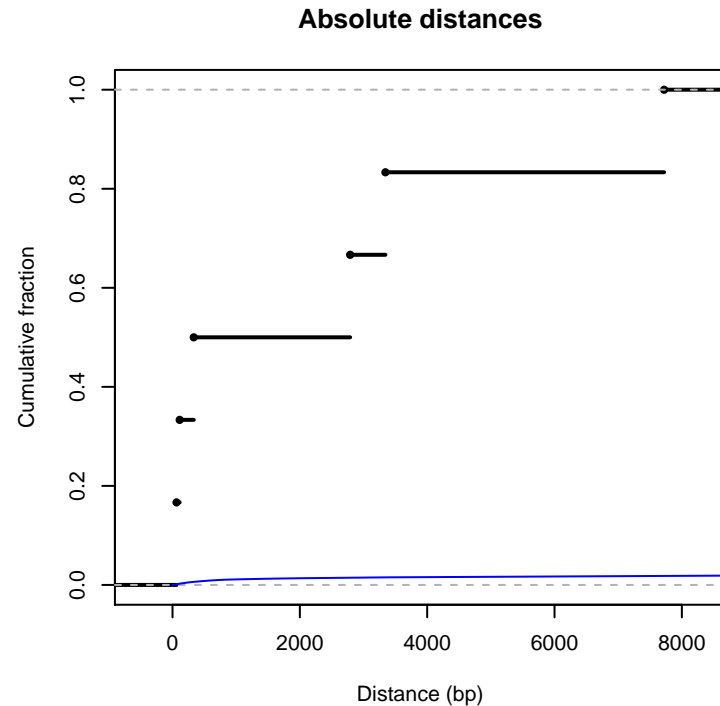
# pcontig\_174

Query population : 12  
Reference population : 34  
Relative Ks p-value : 0.0267167  
Relative ecdf deviation area : 0.099906  
Relative ecdf area correlation : 0.385862  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 8.27005e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 61.9401



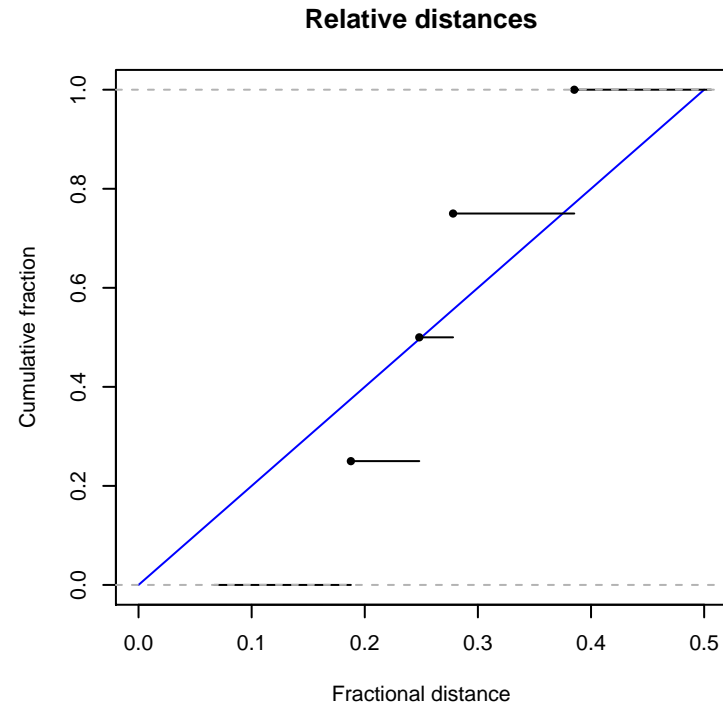
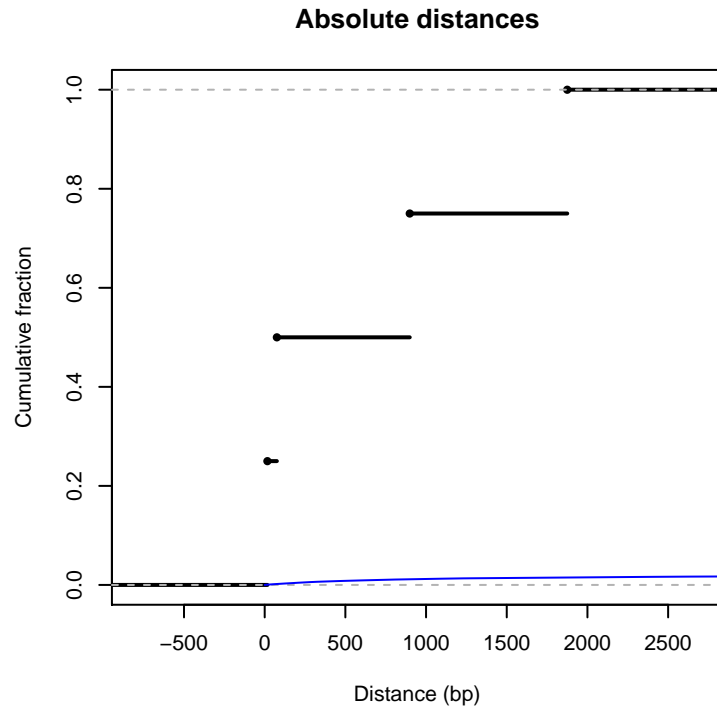
# pcontig\_176

Query population : 6  
Reference population : 46  
Relative Ks p-value : 0.0144273  
Relative ecdf deviation area : 0.129081  
Relative ecdf area correlation : 0.470844  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 9.54624e-08  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 55.7792



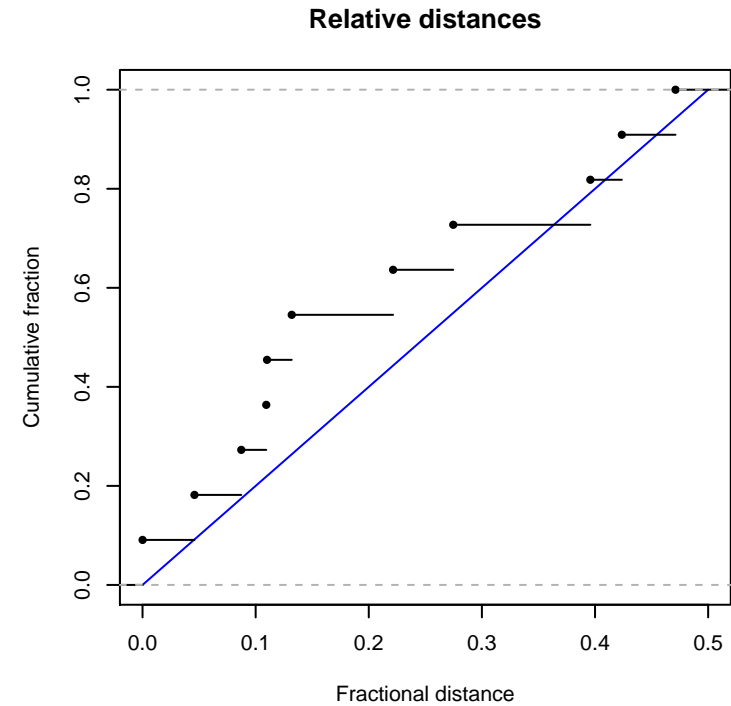
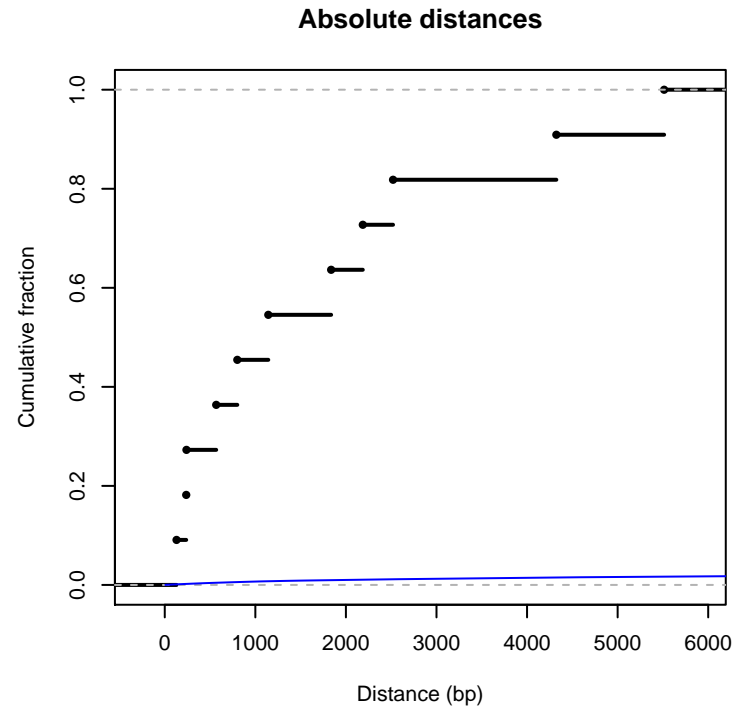
# pcontig\_177

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



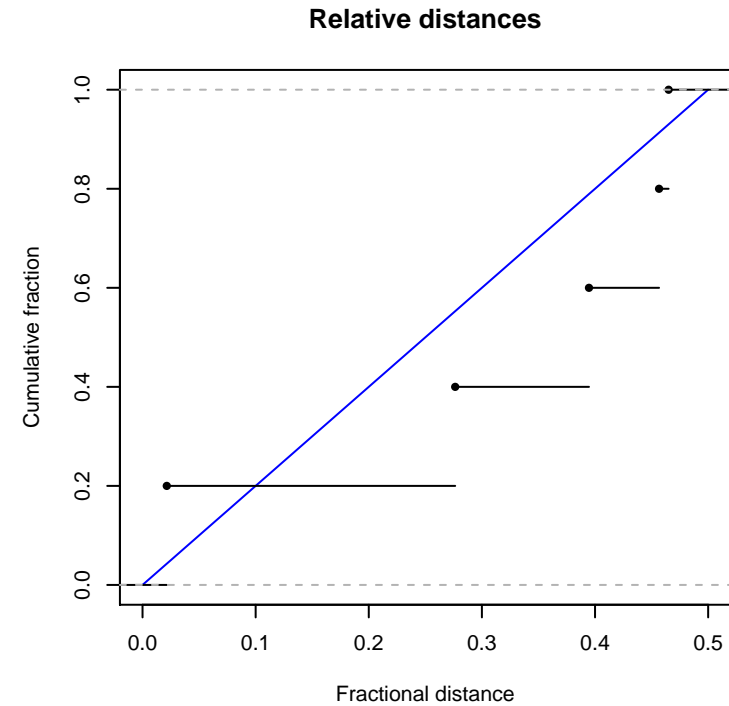
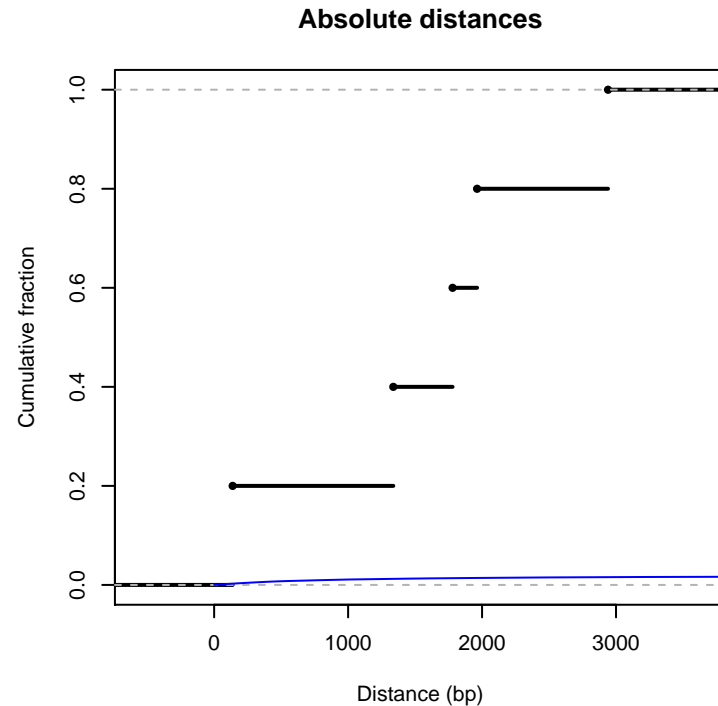
# pcontig\_179

Query population : 11  
Reference population : 19  
Relative Ks p-value : 0.289489  
Relative ecdf deviation area : 0.0465014  
Relative ecdf area correlation : 0.174012  
Relative ecdf deviation area p-value : 0.46  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.46388e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 59.043



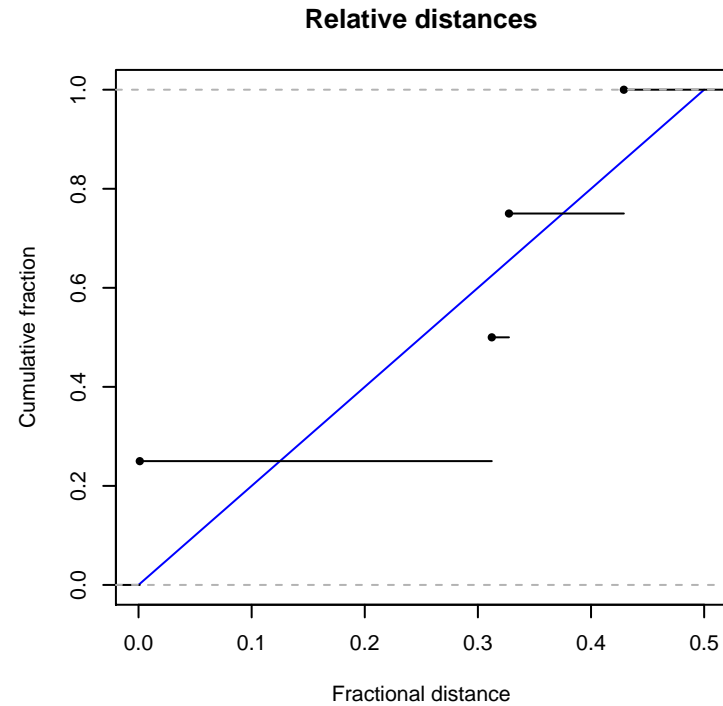
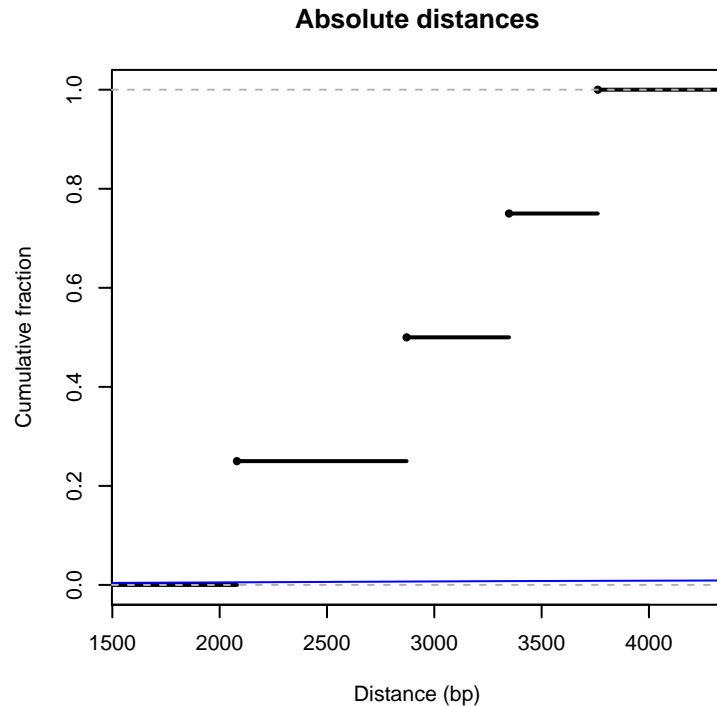
# pcontig\_181

Query population : 5  
Reference population : 33  
Relative Ks p-value : 0.33844  
Relative ecdf deviation area : 0.0879011  
Relative ecdf area correlation : -0.291307  
Relative ecdf deviation area p-value : 0.18  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.56915e-10  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 66.2418



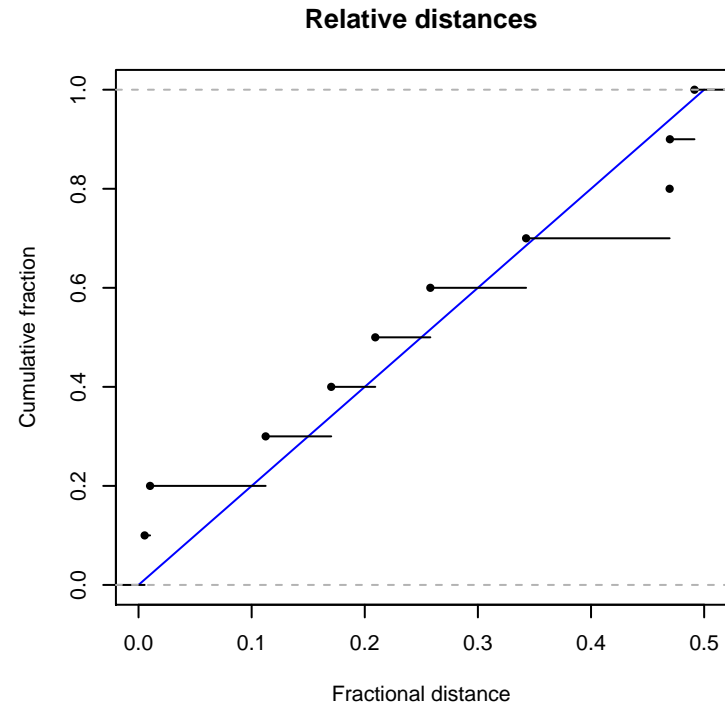
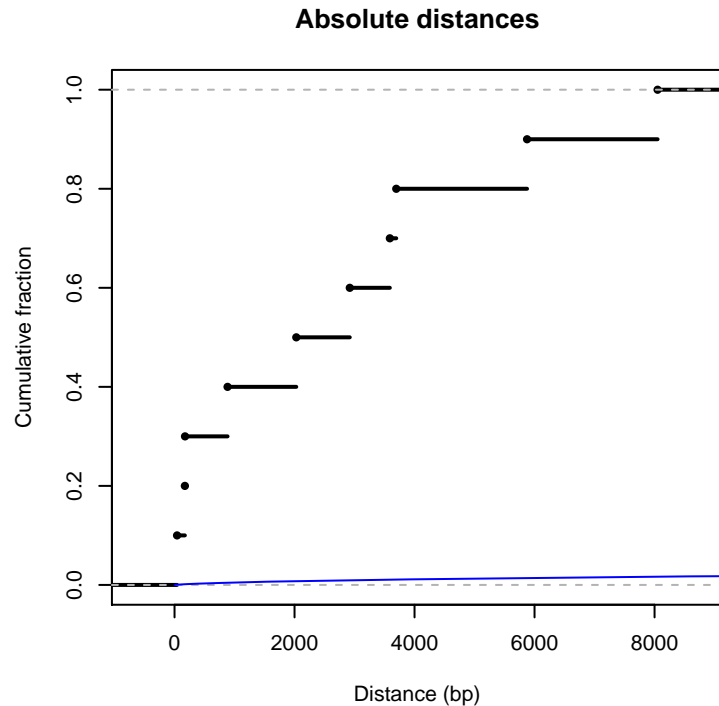
# pcontig\_185

Query population : 4  
Reference population : 7  
Relative Ks p-value : 0.521083  
Relative ecdf deviation area : 0.0626898  
Relative ecdf area correlation : -0.0698535  
Relative ecdf deviation area p-value : 0.71  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.007047  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_186

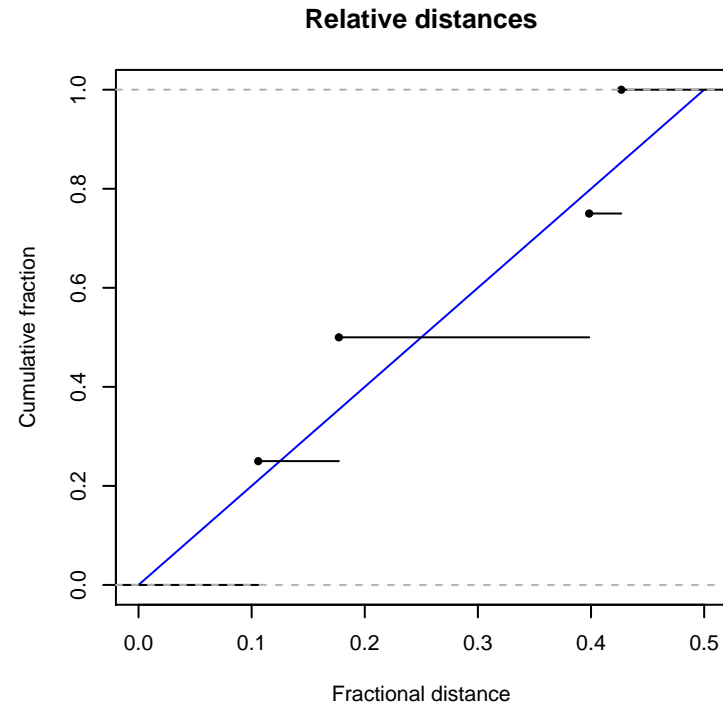
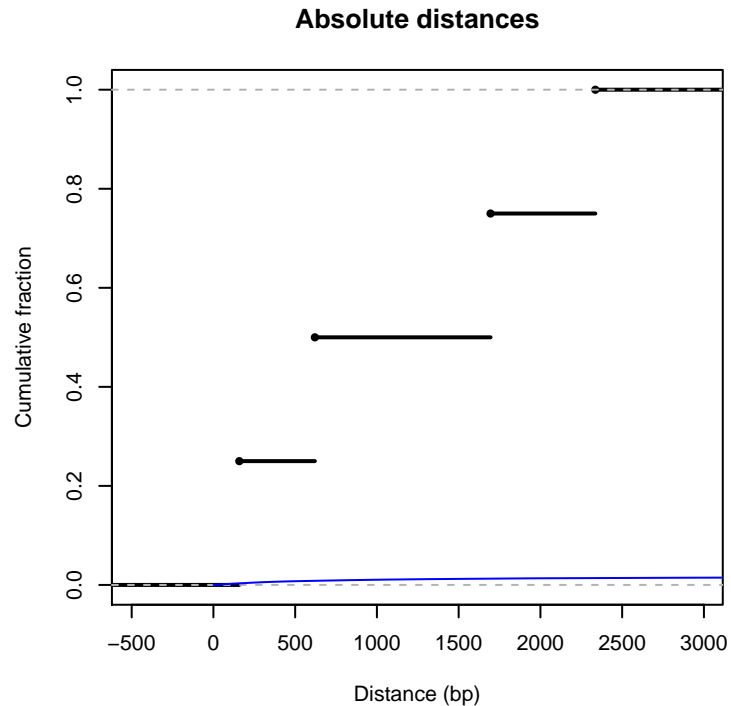
Query population : 10  
Reference population : 17  
Relative Ks p-value : 0.541023  
Relative ecdf deviation area : 0.03272  
Relative ecdf area correlation : -0.01552  
Relative ecdf deviation area p-value : 0.83  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.28355e-08  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 79.0213





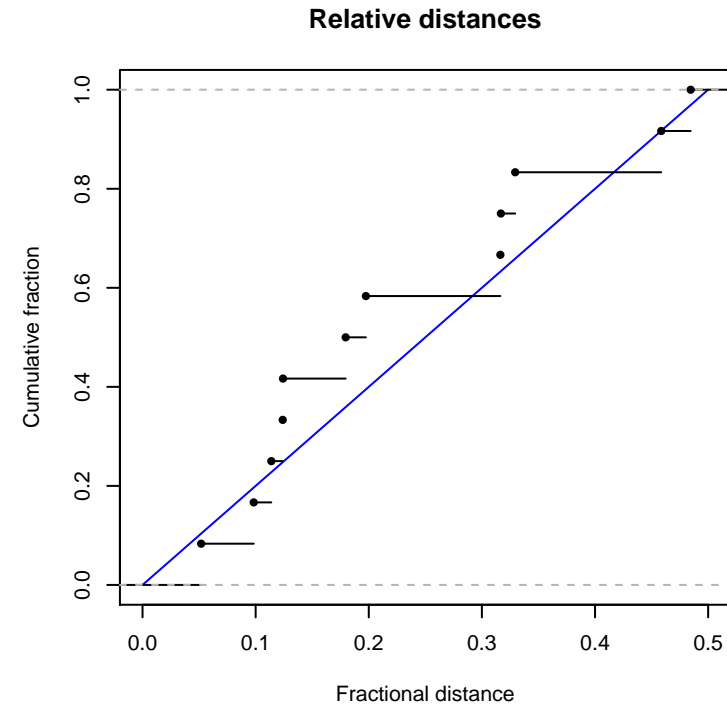
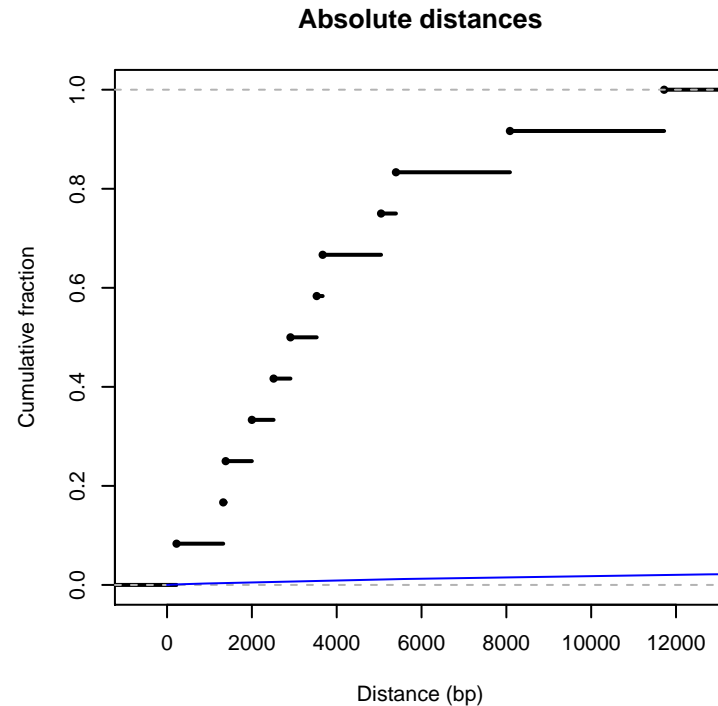
# pcontig\_187

Query population : 4  
Reference population : 42  
Relative Ks p-value : 0.78087  
Relative ecdf deviation area : 0.0490296  
Relative ecdf area correlation : -0.10801  
Relative ecdf deviation area p-value : 0.79  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 88.8166



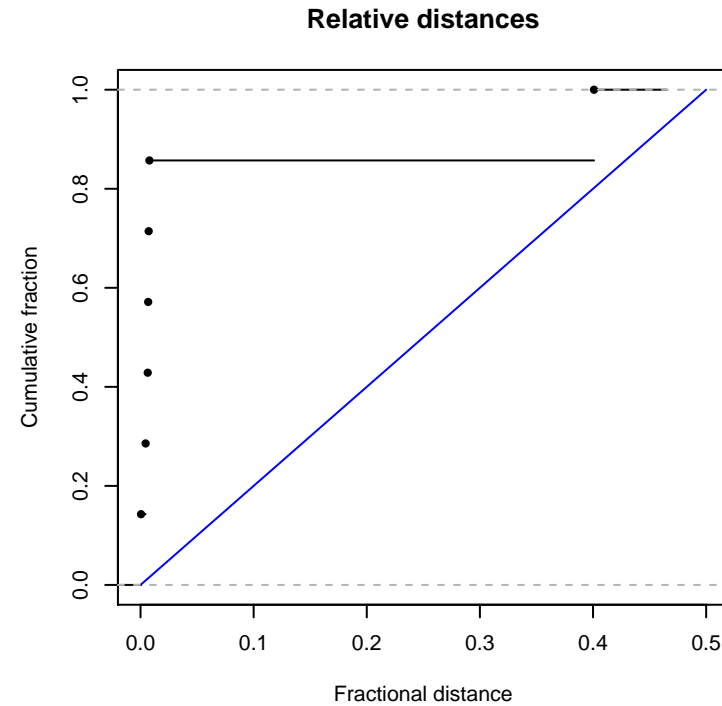
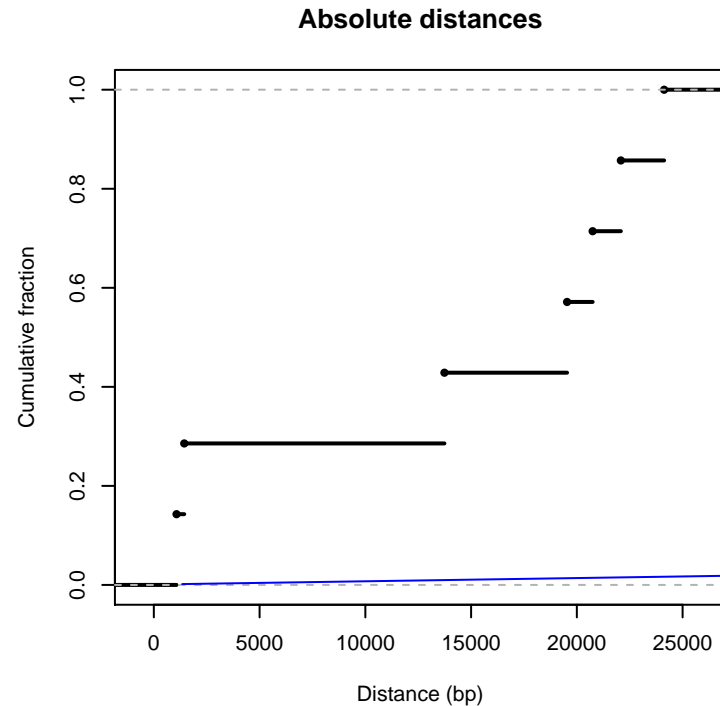
# pcontig\_188

Query population : 12  
Reference population : 9  
Relative Ks p-value : 0.721466  
Relative ecdf deviation area : 0.0358836  
Relative ecdf area correlation : 0.068424  
Relative ecdf deviation area p-value : 0.59  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00020137  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 47.4297



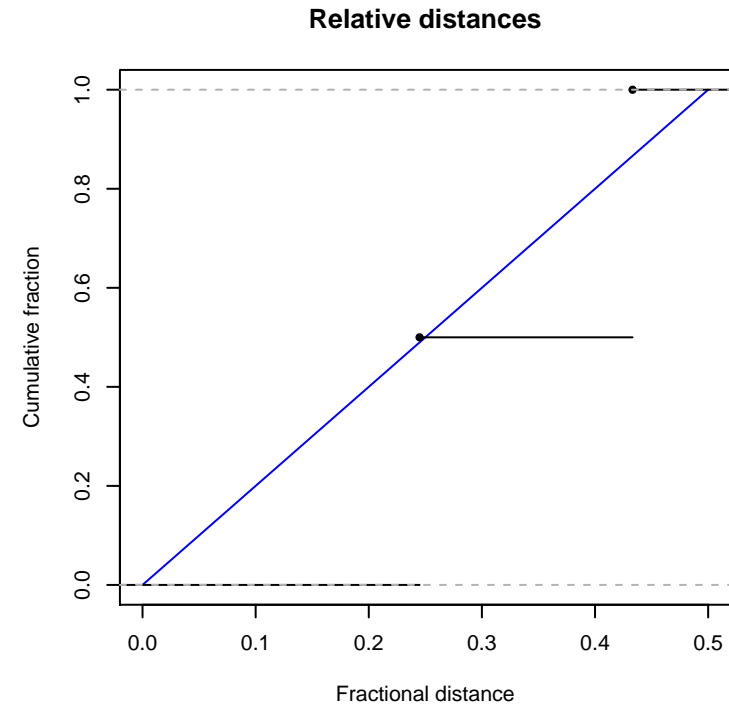
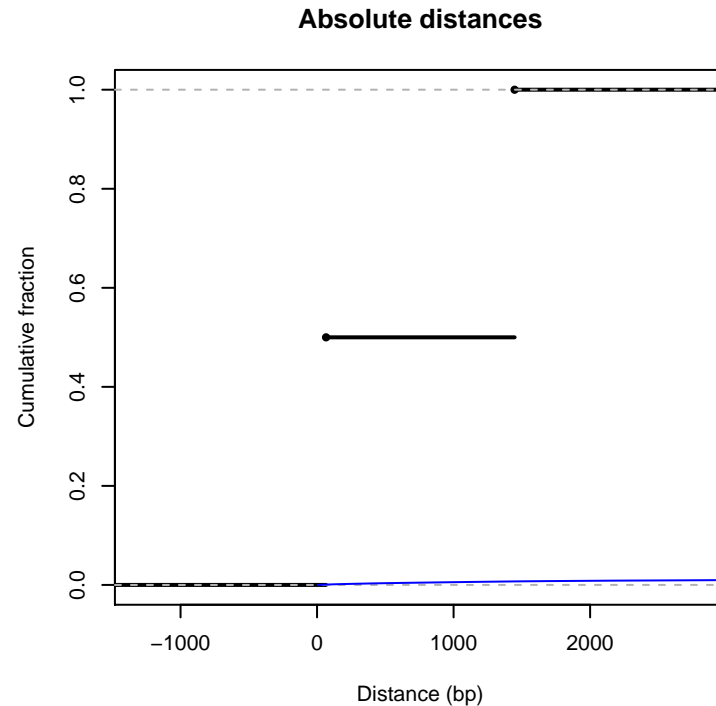
# pcontig\_189

Query population : 7  
Reference population : 2  
Relative Ks p-value : 5.04285e-06  
Relative ecdf deviation area : 0.188067  
Relative ecdf area correlation : 0.752014  
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 : 0.00195288  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



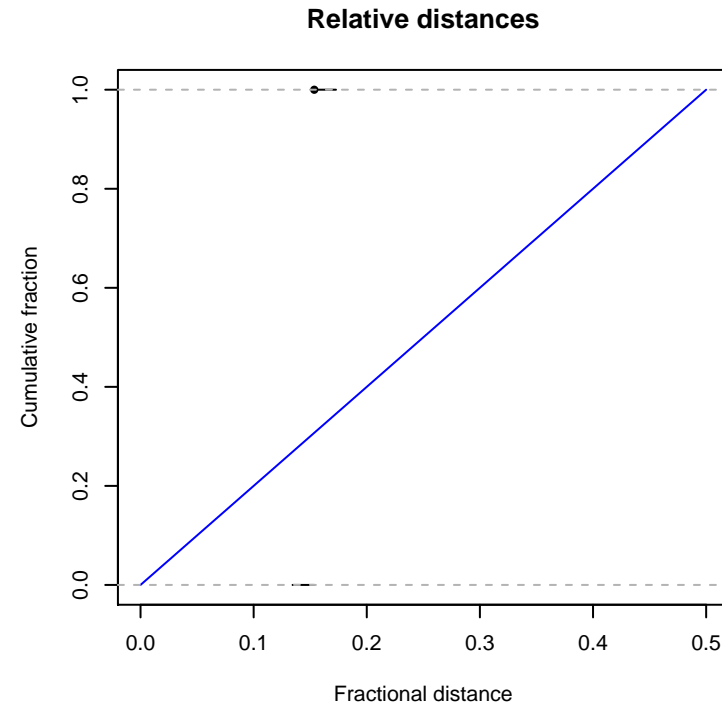
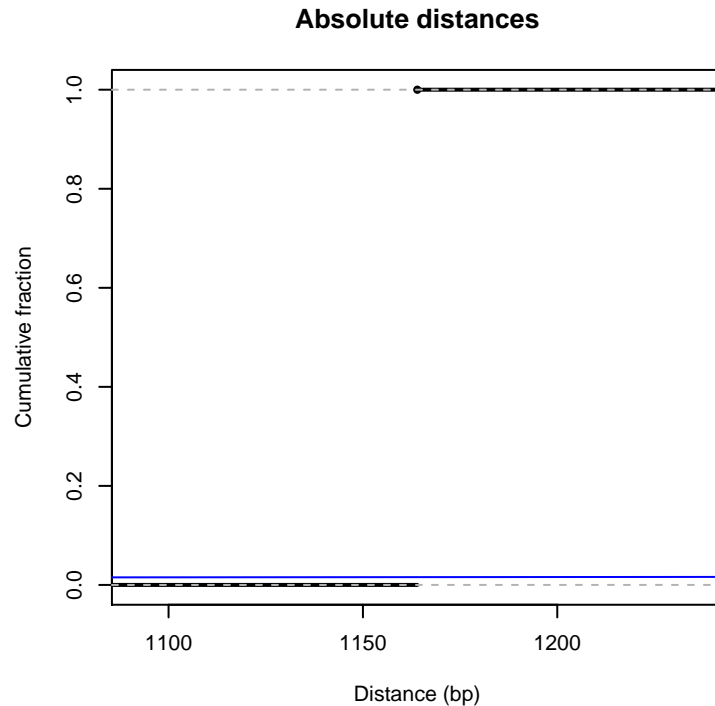
# pcontig\_191

Query population : 2  
Reference population : 17  
Relative Ks p-value : 0.539983  
Relative ecdf deviation area : 0.0975993  
Relative ecdf area correlation : -0.356133  
Relative ecdf deviation area p-value : 0.46  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 80.2862



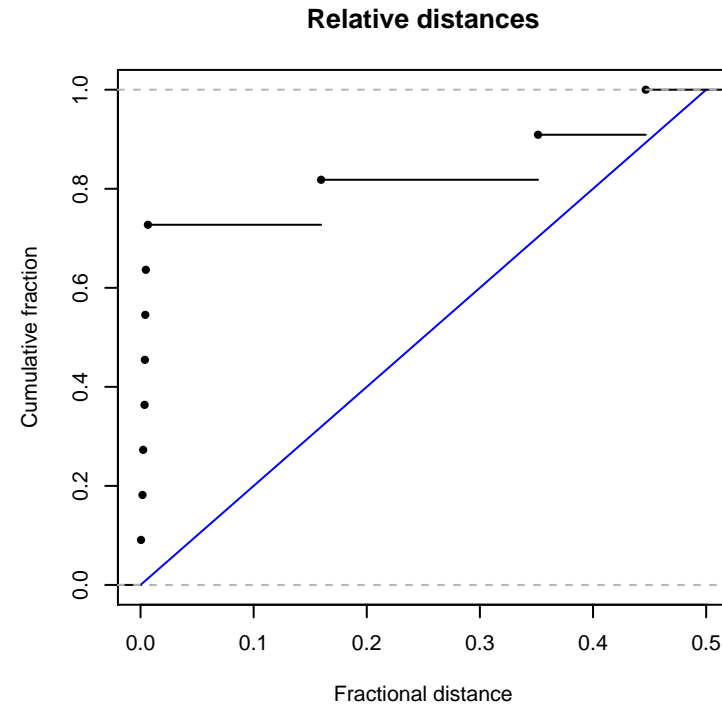
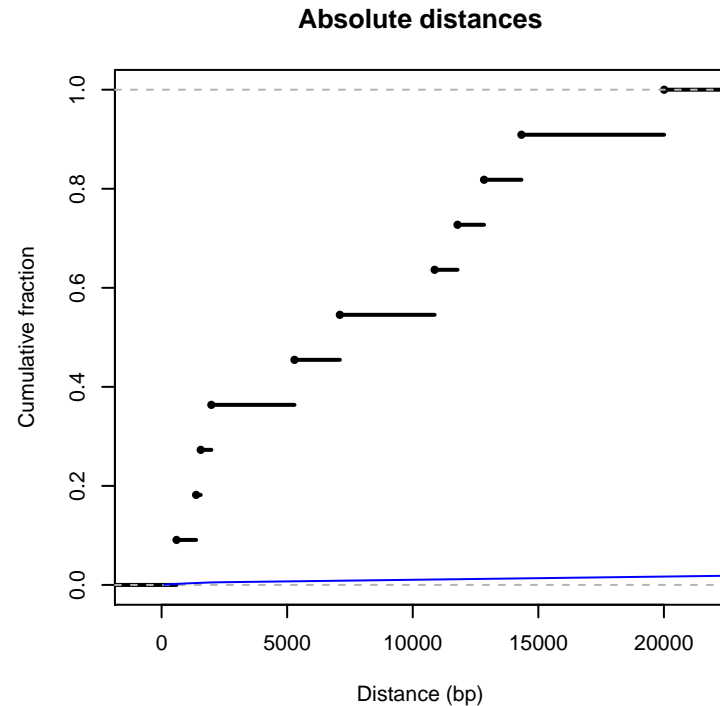
# pcontig\_193

Query population : 1  
Reference population : 35  
Relative Ks p-value : 0.614329  
Relative ecdf deviation area : 0.143612  
Relative ecdf area correlation : 0.385671  
Relative ecdf deviation area p-value : 0.65  
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  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 55.2964



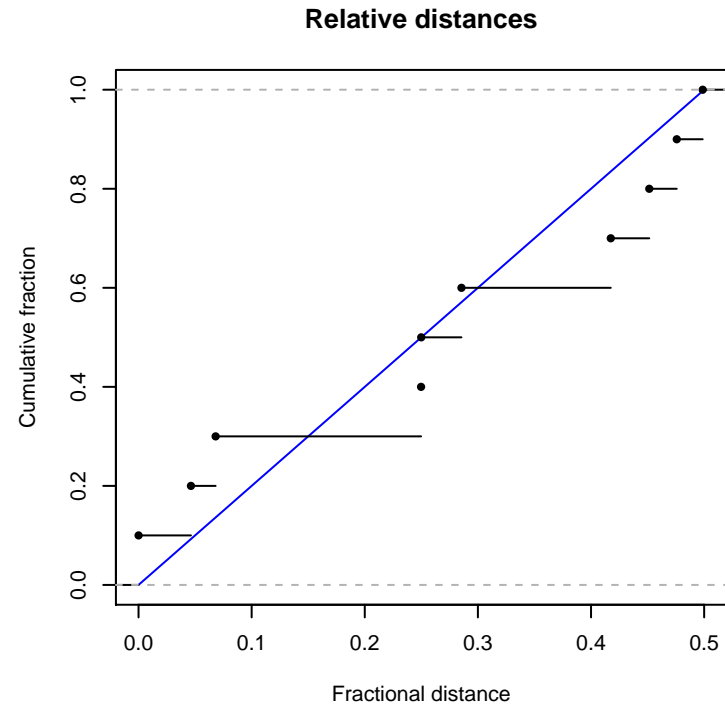
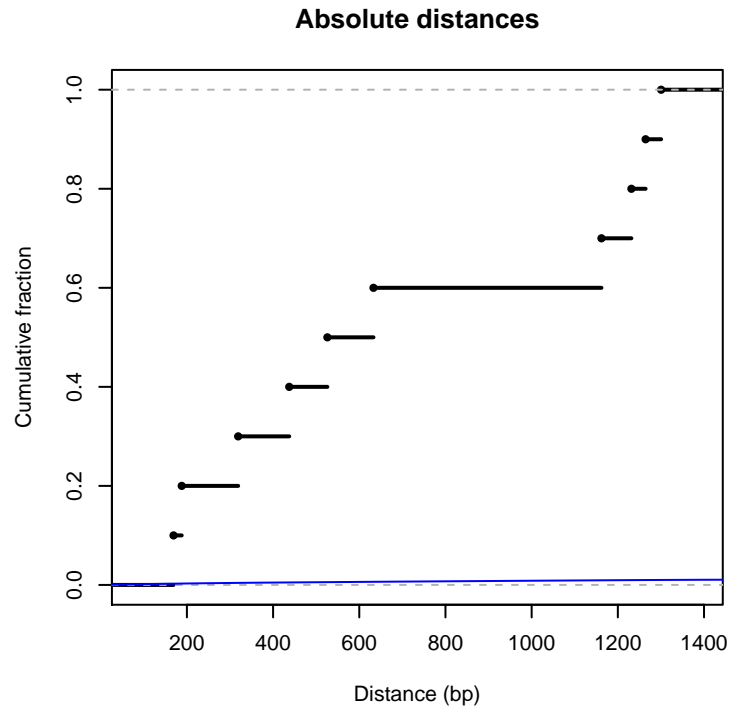
# pcontig\_195

Query population : 11  
Reference population : 7  
Relative Ks p-value :  $3.4206 \times 10^{-6}$   
Relative ecdf deviation area : 0.160897  
Relative ecdf area correlation : 0.641866  
Relative ecdf deviation area p-value :  $<0.01$   
Scaled Absolute min. distance p-value :  $<0.01$   
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value :  $<0.01$   
Jaccard Measure lower tail : FALSE  
Projection test p-value :  $2.75133 \times 10^{-8}$   
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 89.872



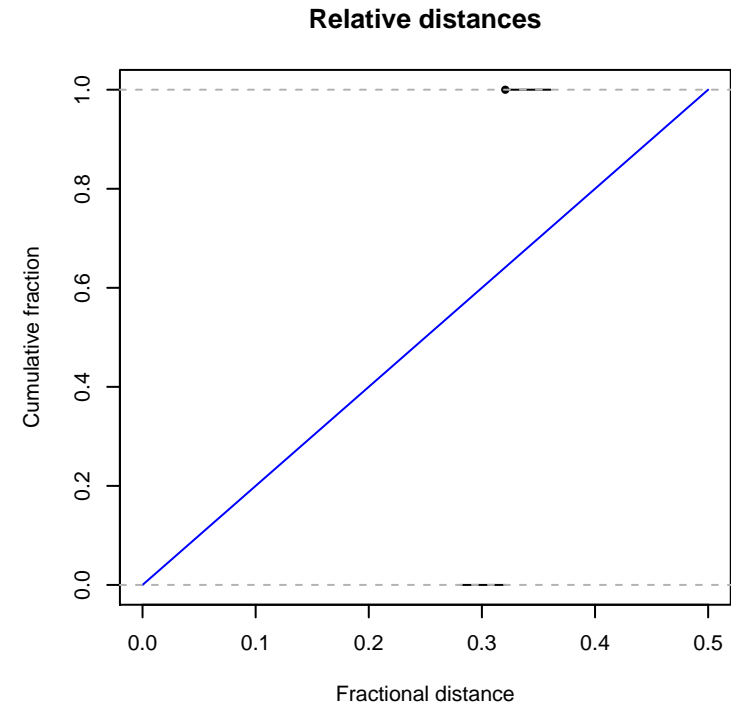
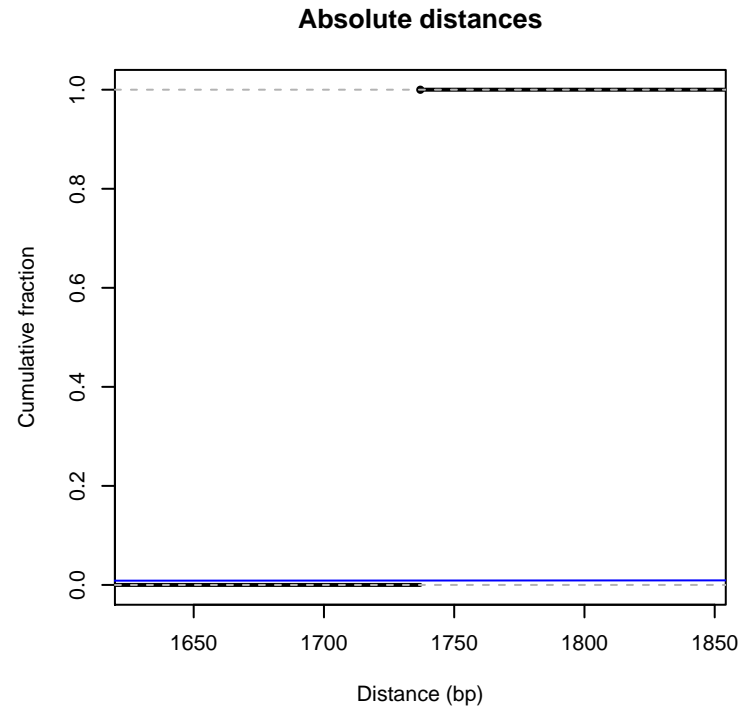
# pcontig\_200

Query population : 10  
Reference population : 35  
Relative Ks p-value : 0.562309  
Relative ecdf deviation area : 0.046848  
Relative ecdf area correlation : -0.0972623  
Relative ecdf deviation area p-value : 0.45  
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 : 1.55431e-15  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 79.7735



# pcontig\_202

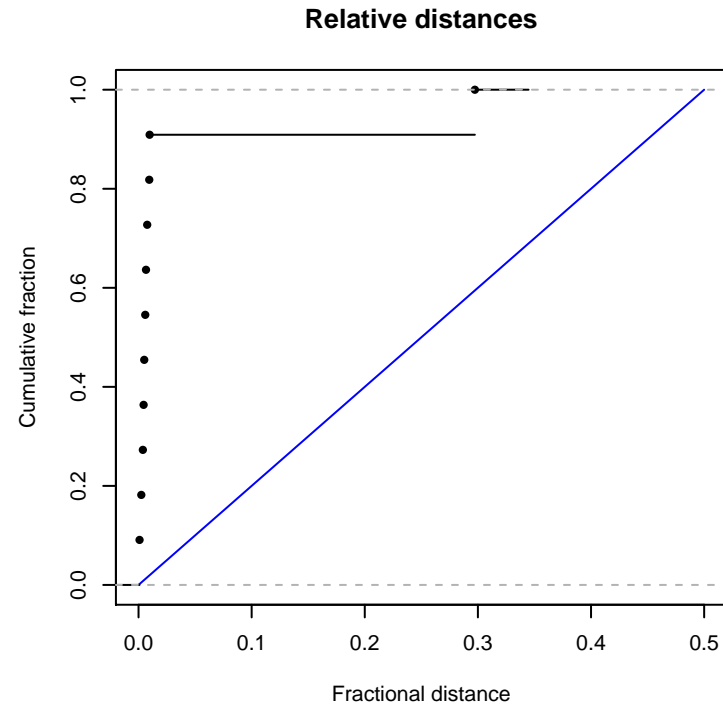
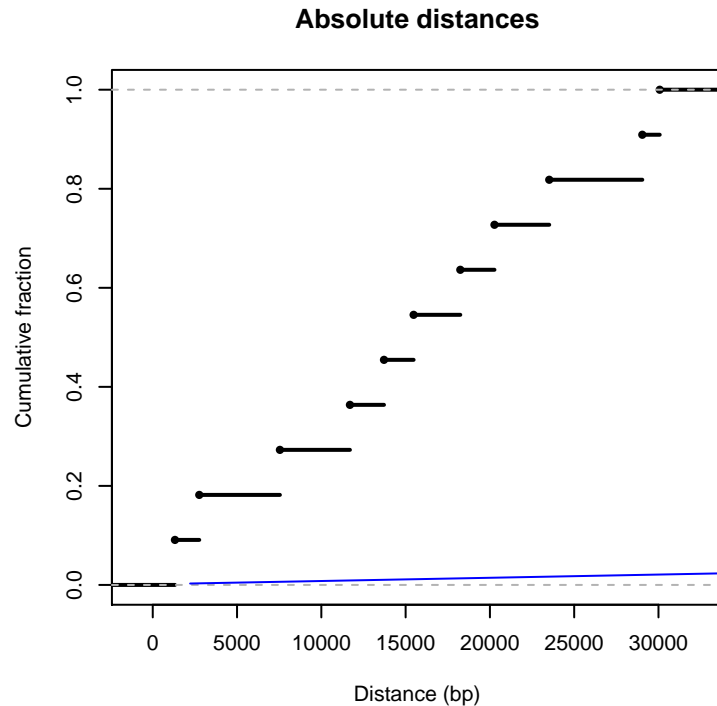
Query population : 1  
Reference population : 17  
Relative Ks p-value : 0.717371  
Relative ecdf deviation area : 0.135038  
Relative ecdf area correlation : -0.282629  
Relative ecdf deviation area p-value : 0.69  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 88.6705





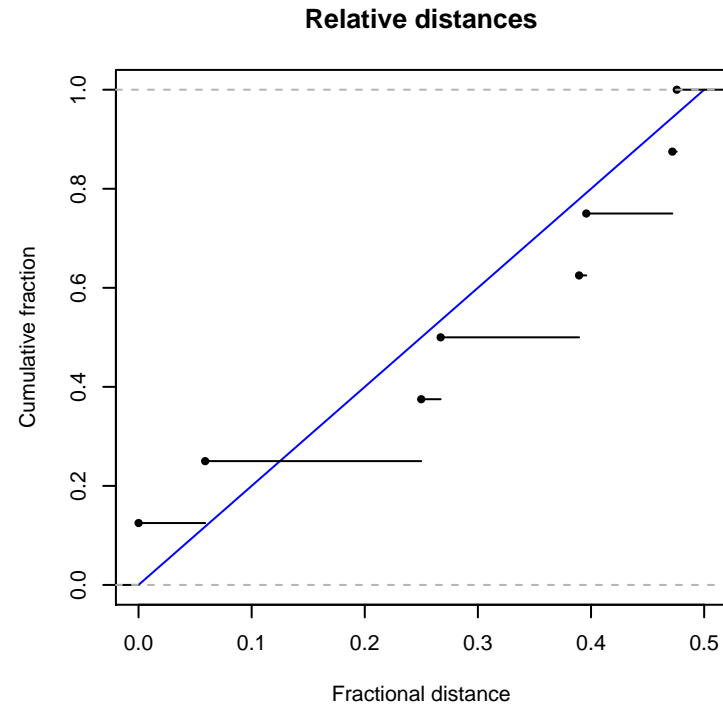
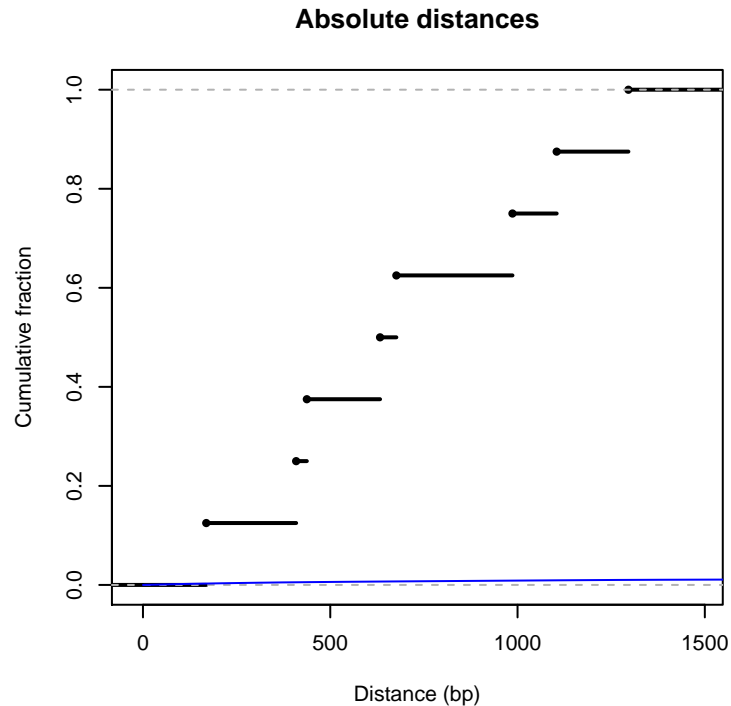
# pcontig\_203

Query population : 11  
Reference population : 2  
Relative Ks p-value : 6.00459e-11  
Relative ecdf deviation area : 0.217841  
Relative ecdf area correlation : 0.871453  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00932476  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



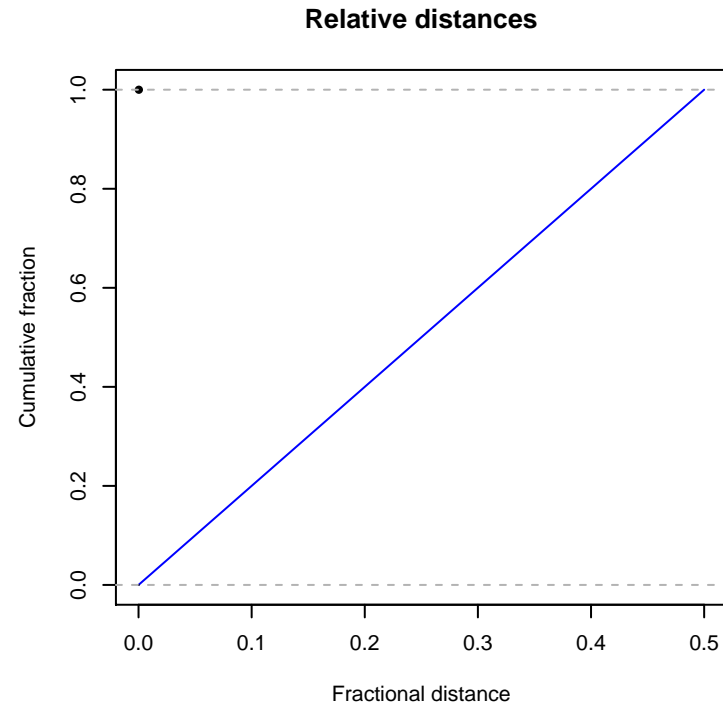
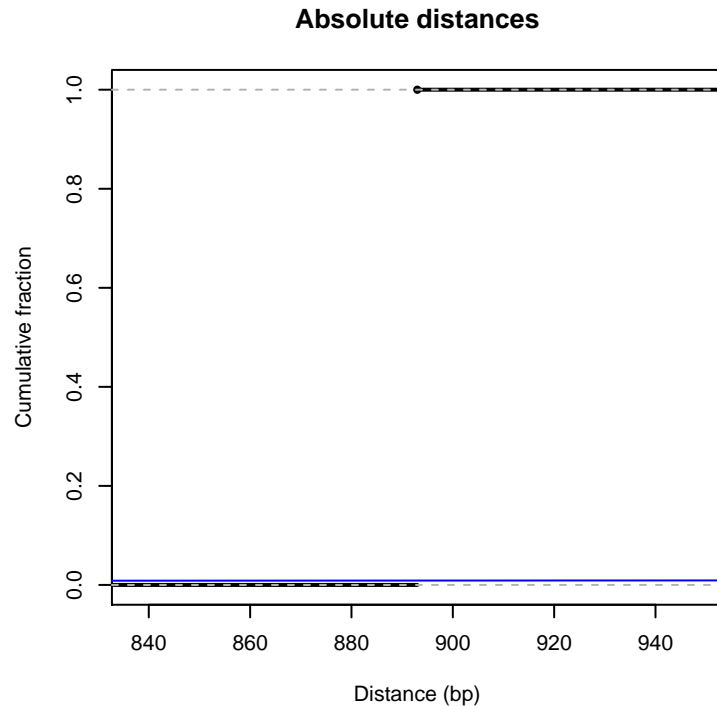
# pcontig\_204

Query population : 8  
Reference population : 35  
Relative Ks p-value : 0.479599  
Relative ecdf deviation area : 0.0560624  
Relative ecdf area correlation : -0.154445  
Relative ecdf deviation area p-value : 0.41  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.25626e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 64.6105



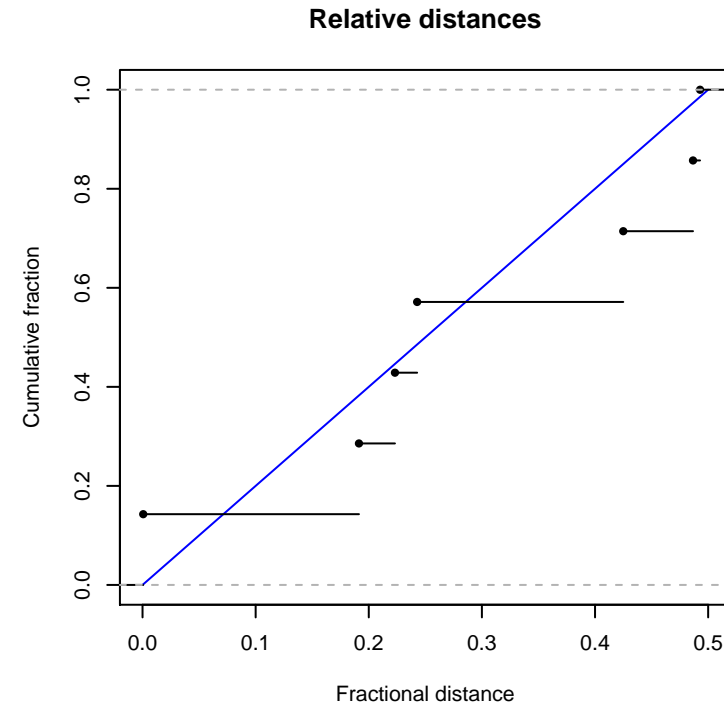
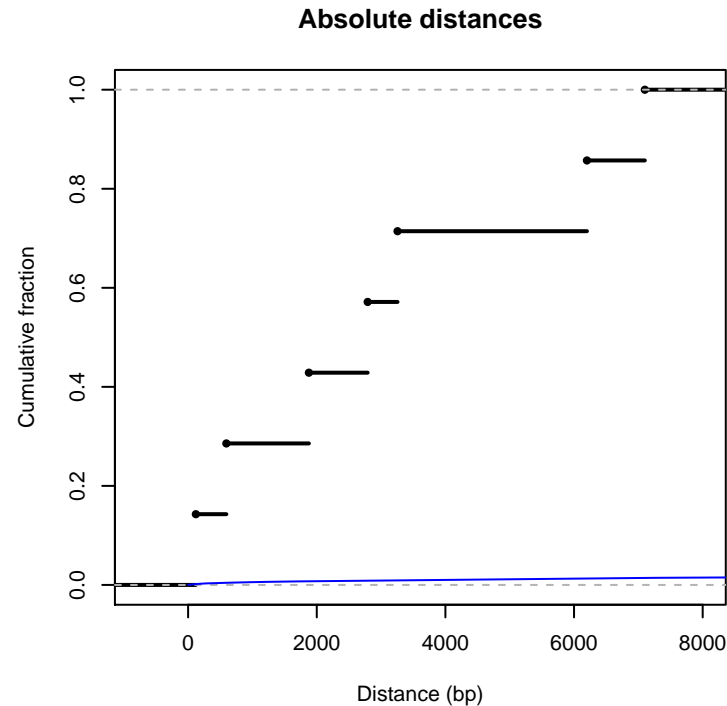
# pcontig\_205

Query population : 1  
Reference population : 29  
Relative Ks p-value : 0.0011735  
Relative ecdf deviation area : 0.25  
Relative ecdf area correlation : 0.998827  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0102451  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



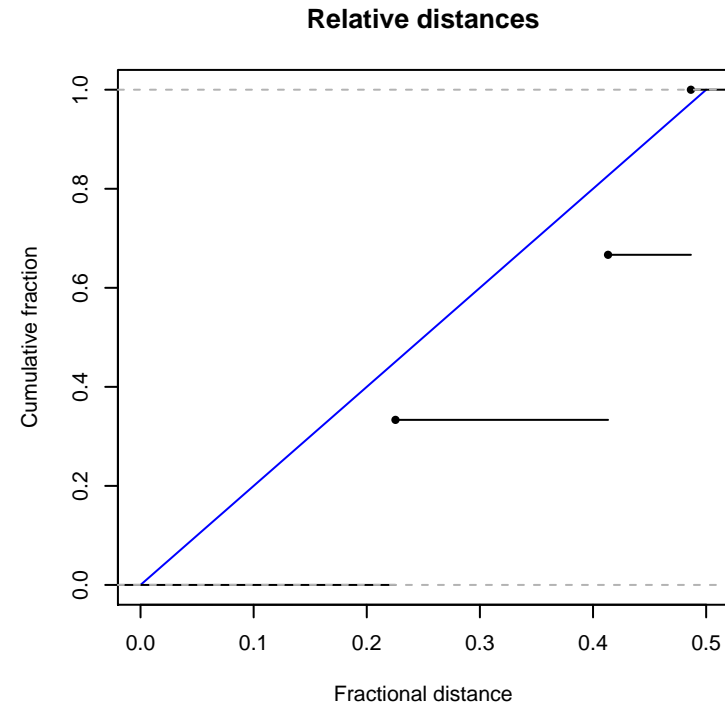
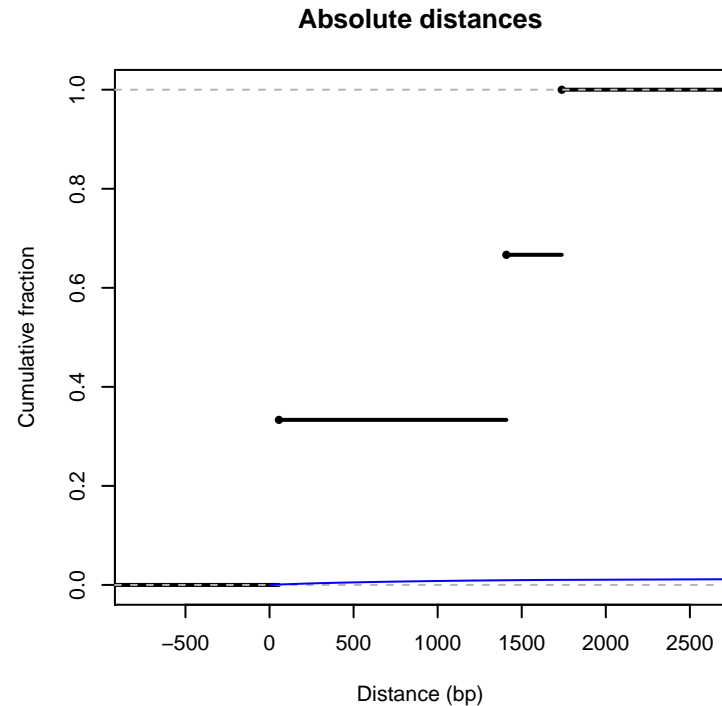
# pcontig\_207

Query population : 7  
Reference population : 32  
Relative Ks p-value : 0.55703  
Relative ecdf deviation area : 0.0581757  
Relative ecdf area correlation : -0.178413  
Relative ecdf deviation area p-value : 0.51  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.4329e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 69.2019



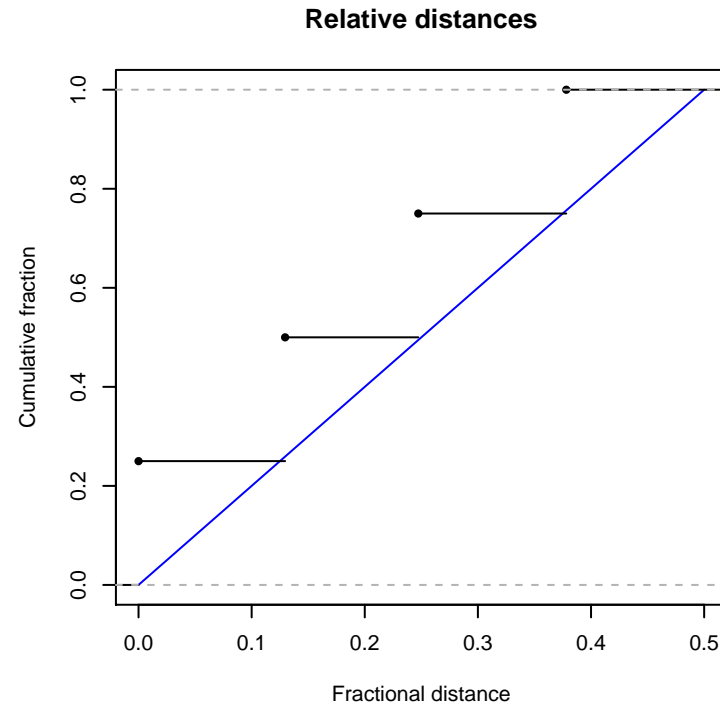
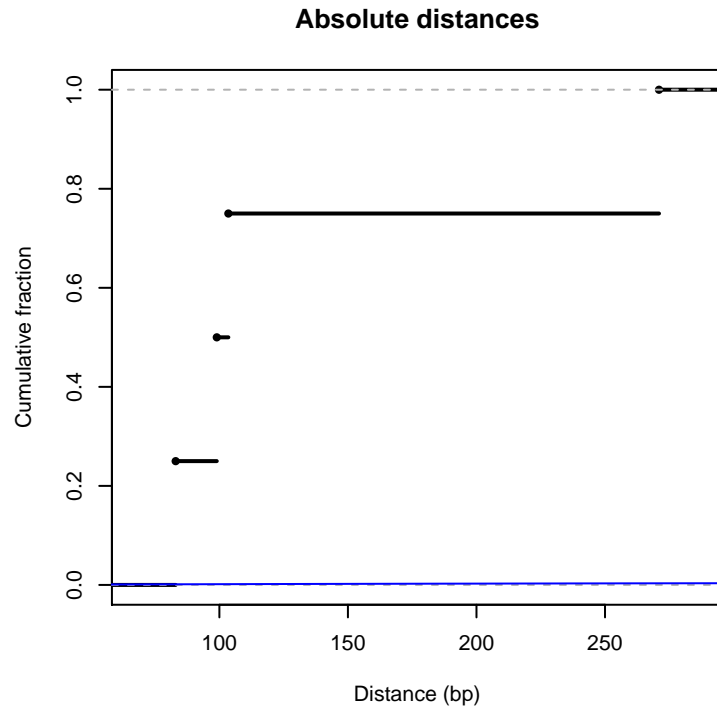
# pcontig\_214

Query population : 3  
Reference population : 26  
Relative Ks p-value : 0.349298  
Relative ecdf deviation area : 0.12542  
Relative ecdf area correlation : -0.500234  
Relative ecdf deviation area p-value : 0.11  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 5.23329e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 82.7276



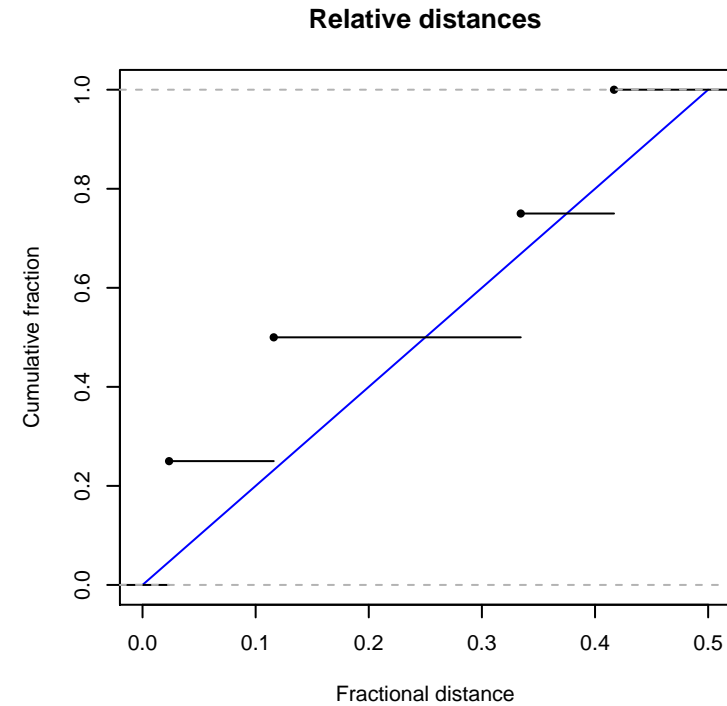
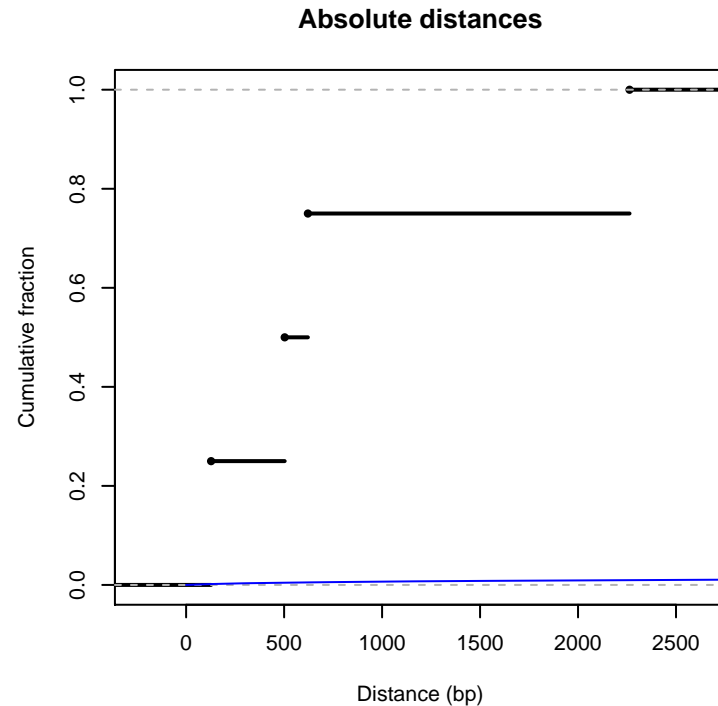
# pcontig\_218

Query population : 4  
Reference population : 33  
Relative Ks p-value : 0.893853  
Relative ecdf deviation area : 0.0612167  
Relative ecdf area correlation : 0.244952  
Relative ecdf deviation area p-value : 0.56  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 180.079



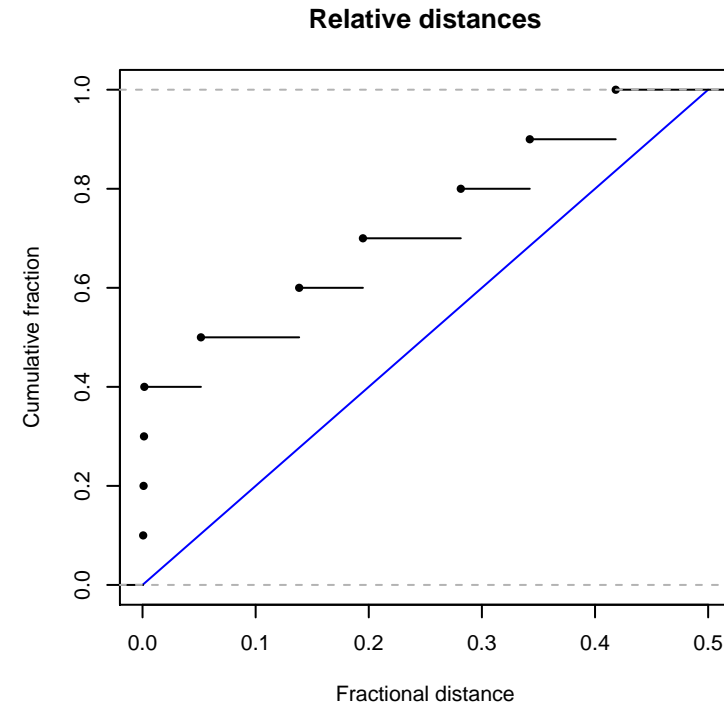
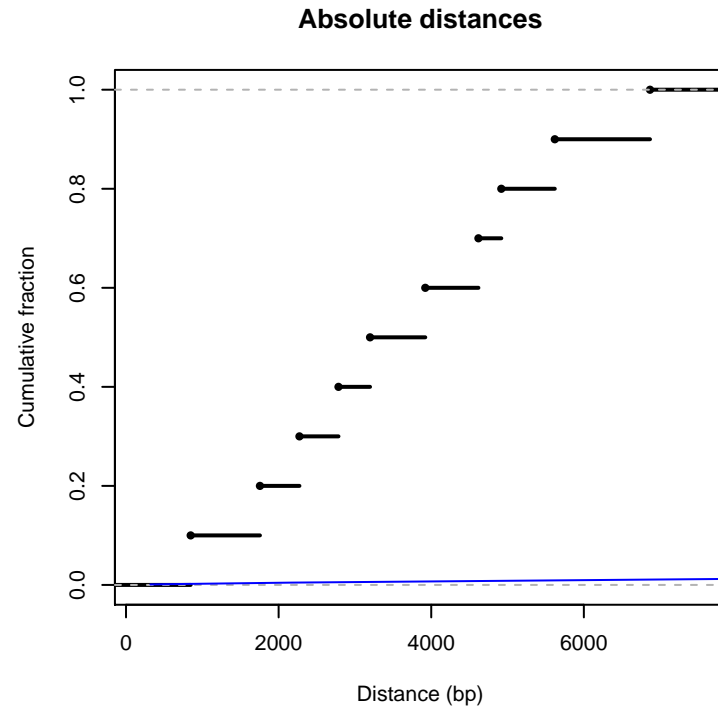
# pcontig\_221

Query population : 4  
Reference population : 25  
Relative Ks p-value : 0.862353  
Relative ecdf deviation area : 0.0460689  
Relative ecdf area correlation : 0.109417  
Relative ecdf deviation area p-value : 0.86  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 108.886



# pcontig\_223

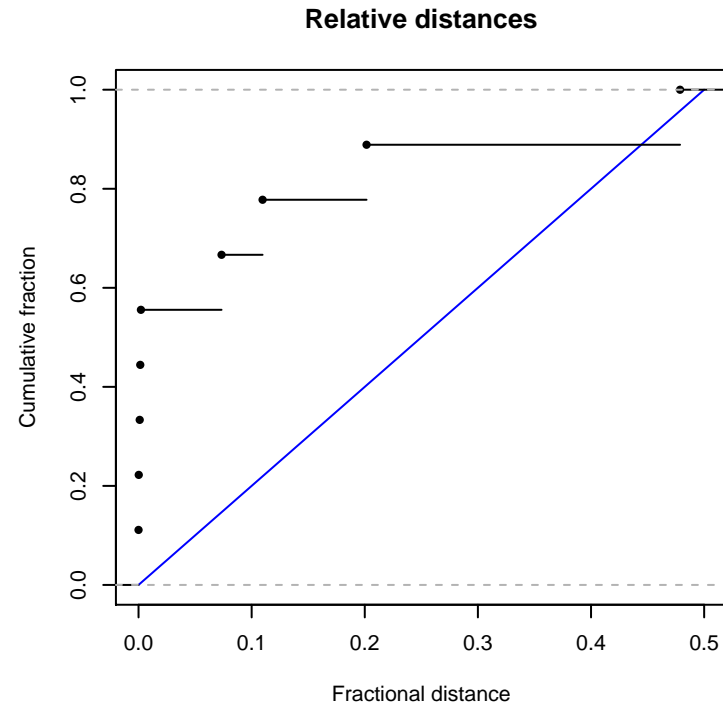
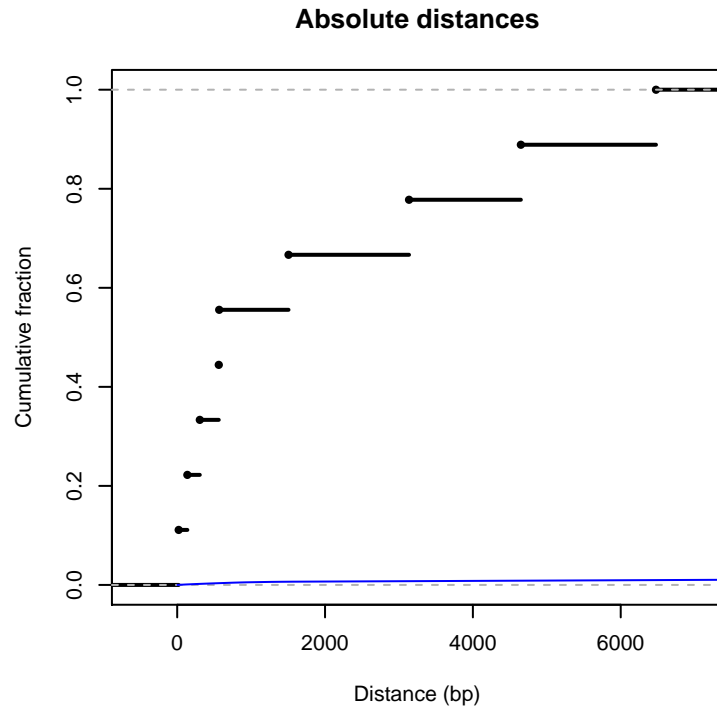
Query population : 10  
Reference population : 5  
Relative Ks p-value : 0.0624244  
Relative ecdf deviation area : 0.108561  
Relative ecdf area correlation : 0.427485  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000324462  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 36.9736





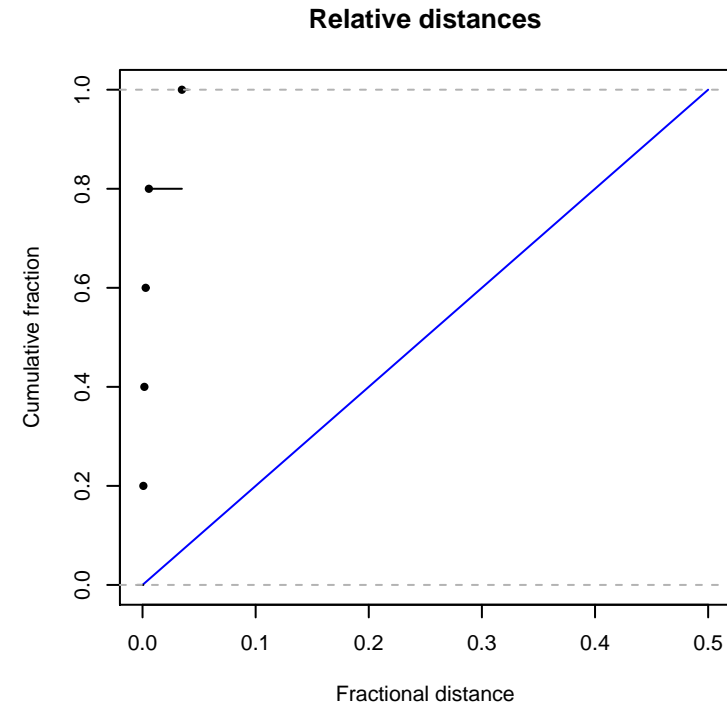
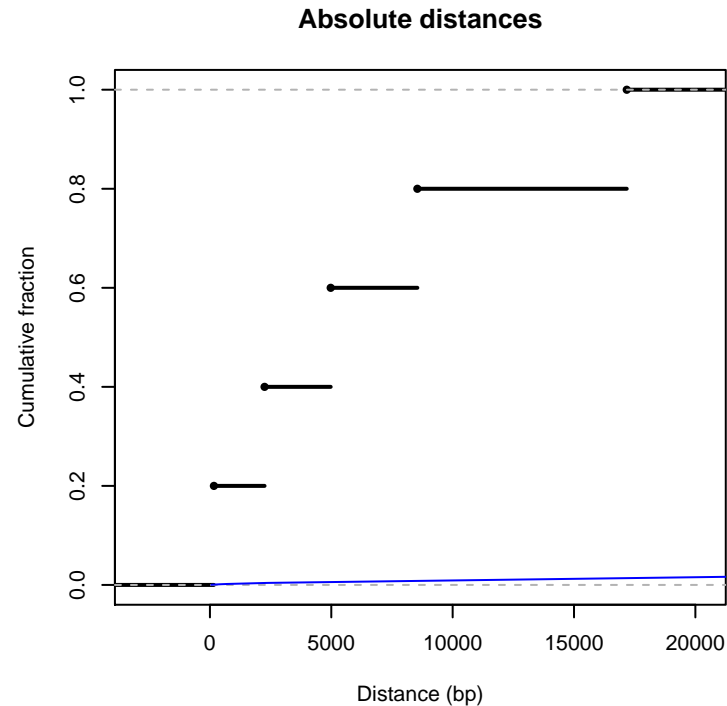
# pcontig\_225

Query population : 9  
Reference population : 13  
Relative Ks p-value : 0.00358999  
Relative ecdf deviation area : 0.155719  
Relative ecdf area correlation : 0.614147  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 1.62093e-12  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 107.032



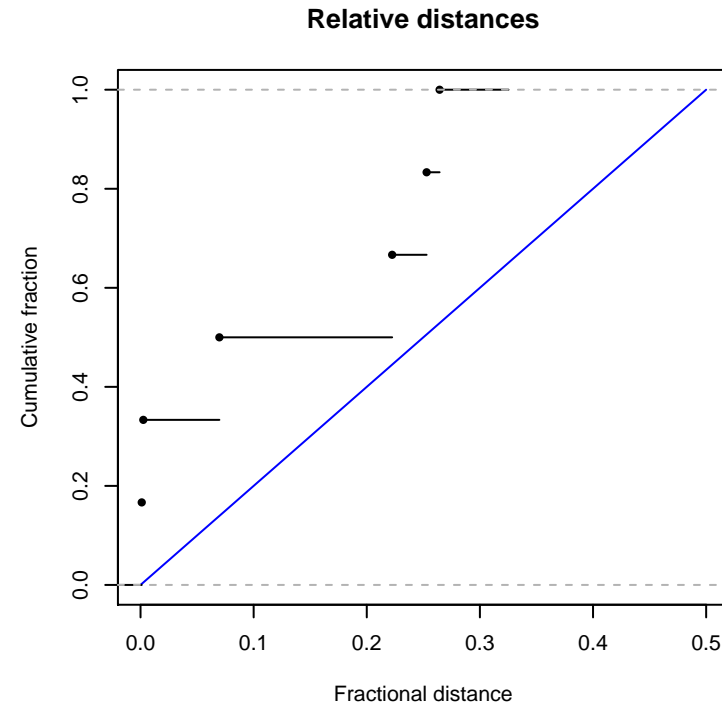
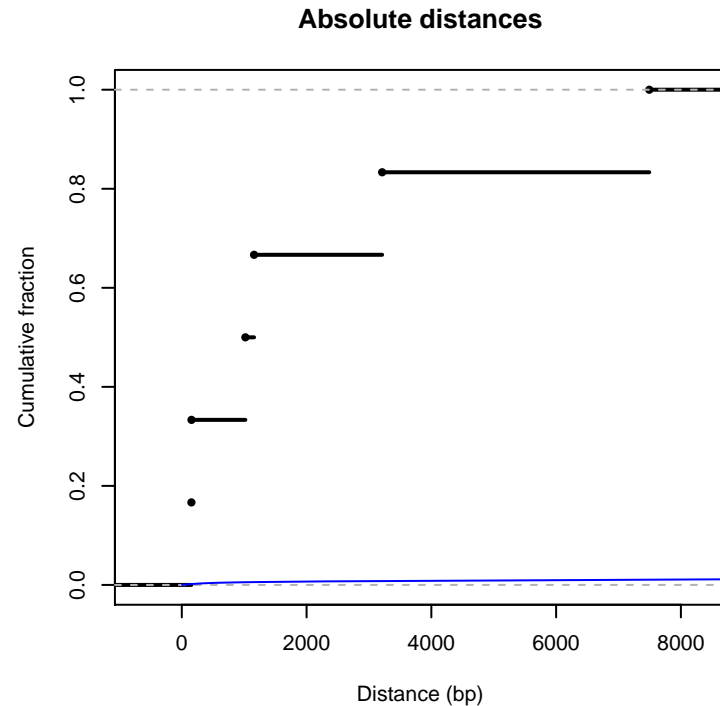
# pcontig\_233

Query population : 5  
Reference population : 7  
Relative Ks p-value : 3.26259e-06  
Relative ecdf deviation area : 0.241667  
Relative ecdf area correlation : 0.963567  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 4.61367e-07  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 111.326



# pcontig\_235

Query population : 6  
Reference population : 24  
Relative Ks p-value : 0.0959166  
Relative ecdf deviation area : 0.114099  
Relative ecdf area correlation : 0.458047  
Relative ecdf deviation area p-value : 0.07  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 2.11447e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 70.2436



# All Chromosomes

Query population : 14477  
Reference population : 49155  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0113563  
Relative ecdf area correlation : -0.0407209  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.72423

