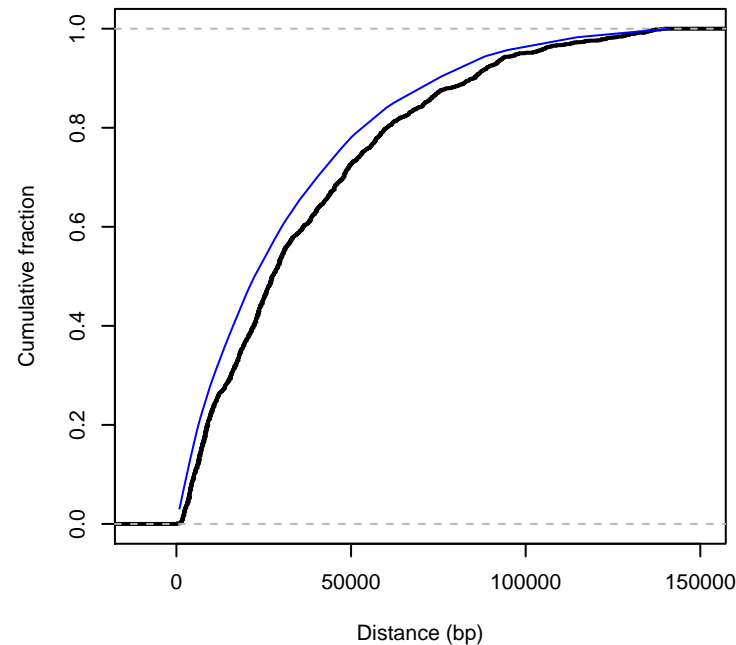


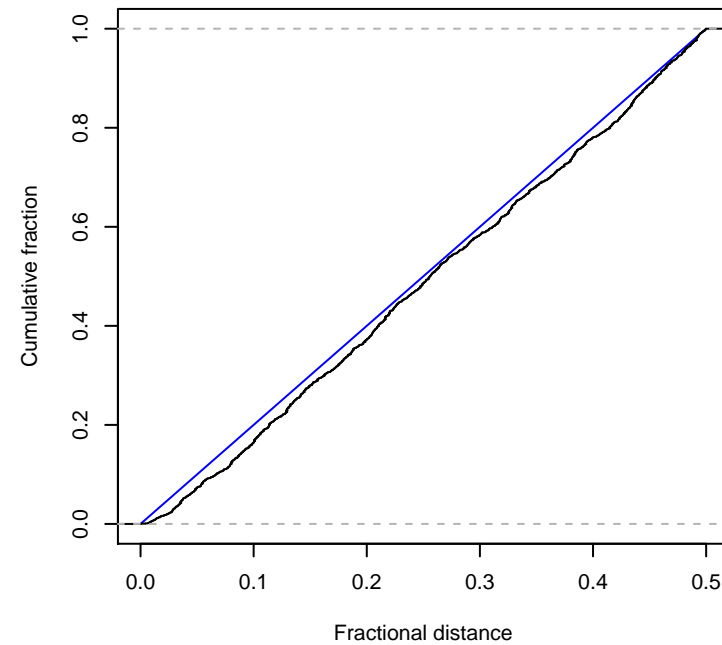
# pcontig\_000

Query population : 1836  
Reference population : 53  
Relative Ks p-value : 0.00362334  
Relative ecdf deviation area : 0.0103554  
Relative ecdf area correlation : -0.0411427  
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 : 9.36652e-25  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0588754

Absolute distances



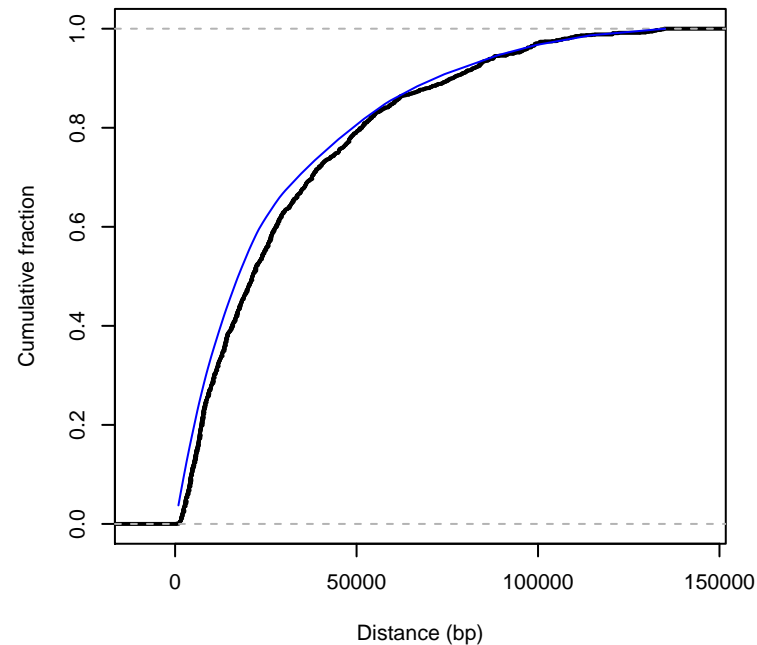
Relative distances



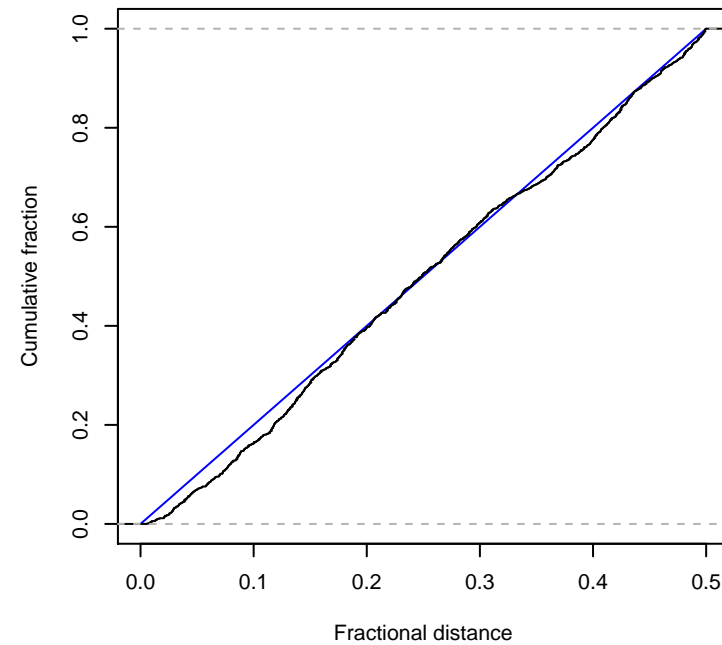
# pcontig\_001

Query population : 1560  
Reference population : 63  
Relative Ks p-value : 0.00442138  
Relative ecdf deviation area : 0.00794286  
Relative ecdf area correlation : -0.0271228  
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 : 3.97114e-28  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.015173

Absolute distances

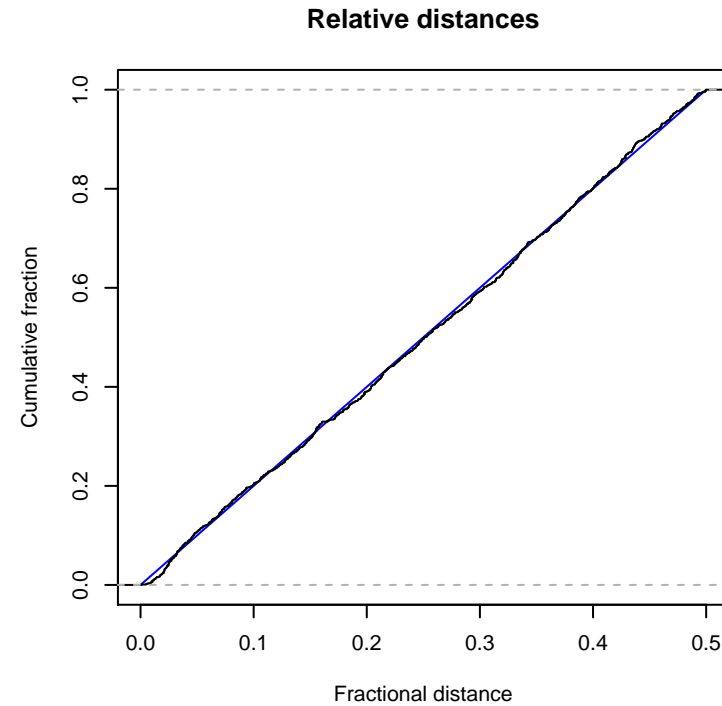
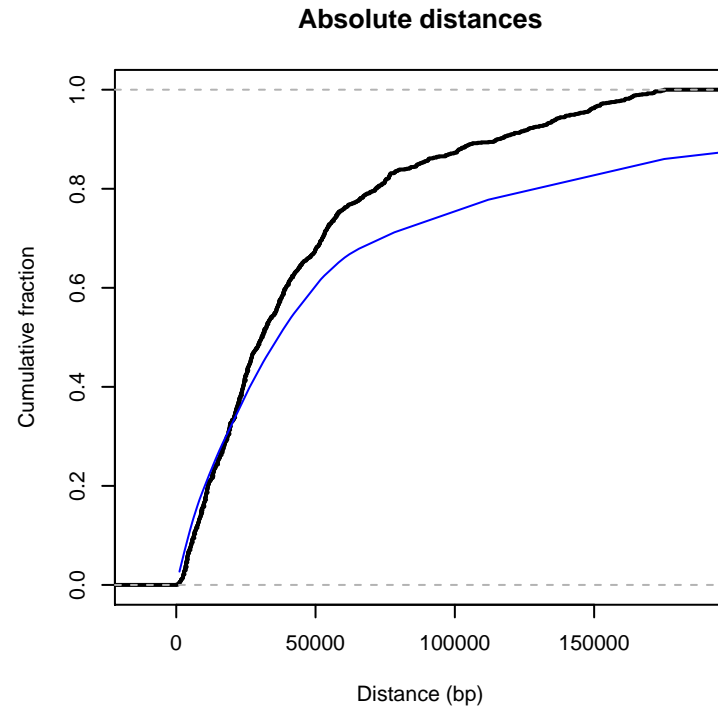


Relative distances



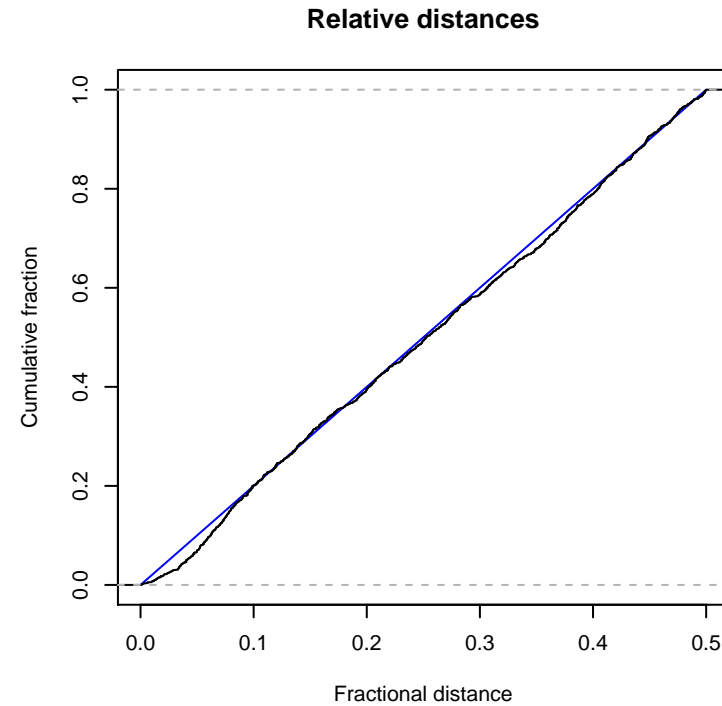
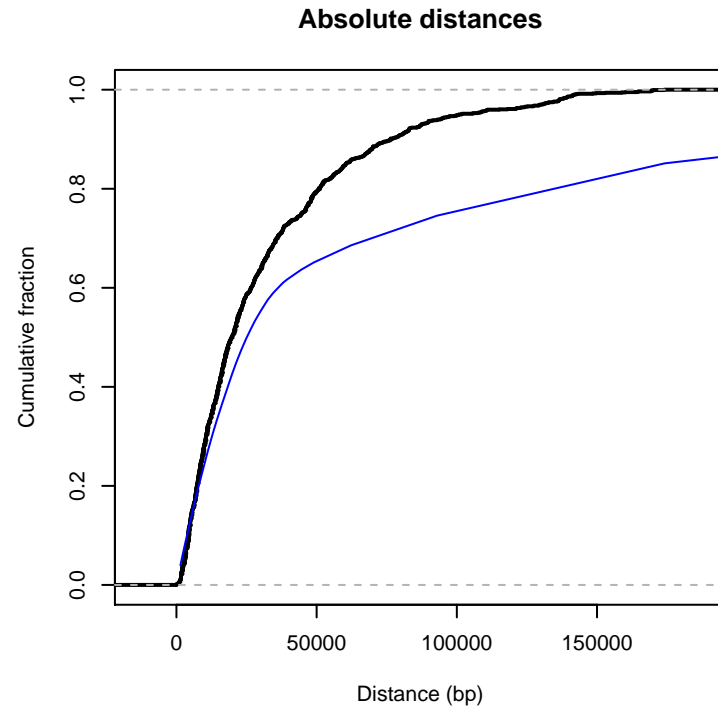
# pcontig\_002

Query population : 1204  
Reference population : 36  
Relative Ks p-value : 0.876286  
Relative ecdf deviation area : 0.00297749  
Relative ecdf area correlation : -0.00238803  
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 : TRUE  
Projection test p-value : 9.39152e-10  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.279114



# pcontig\_003

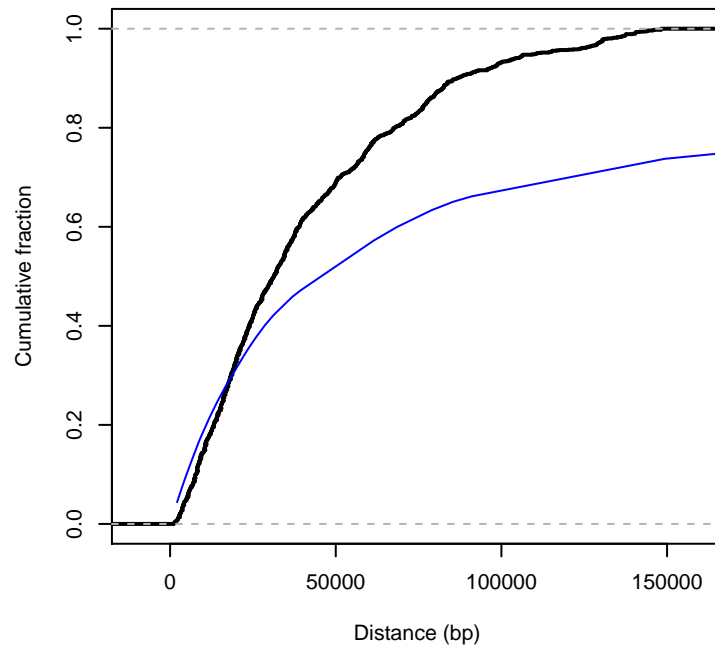
Query population : 1462  
Reference population : 43  
Relative Ks p-value : 0.0550902  
Relative ecdf deviation area : 0.00439633  
Relative ecdf area correlation : -0.0153688  
Relative ecdf deviation area p-value : 0.37  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 5.31038e-16  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.101444



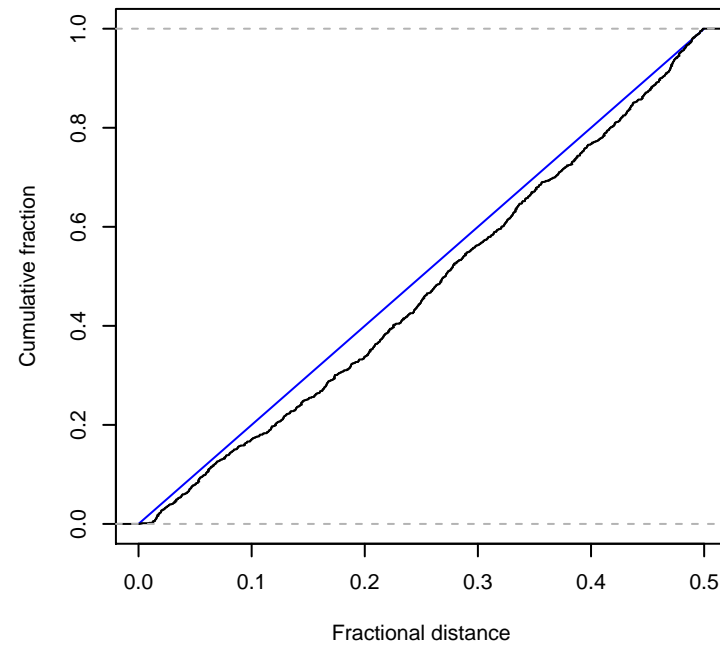
# pcontig\_004

Query population : 1370  
Reference population : 32  
Relative Ks p-value : 2.19477e-05  
Relative ecdf deviation area : 0.0169027  
Relative ecdf area correlation : -0.0682052  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 3.90345e-16  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

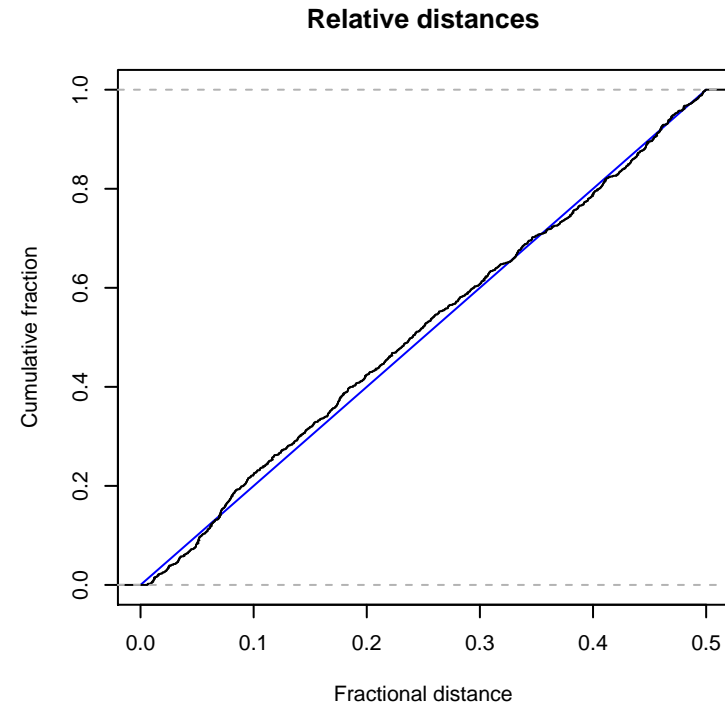
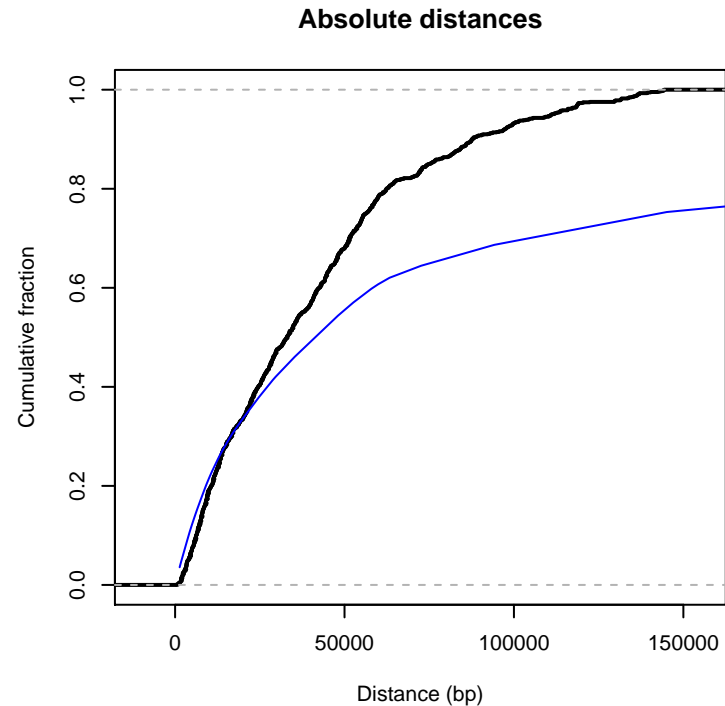


Relative distances



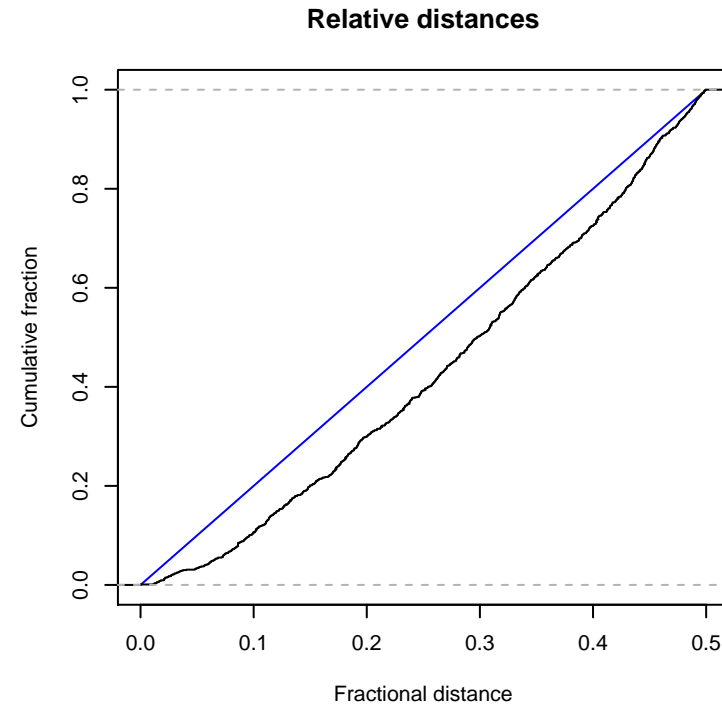
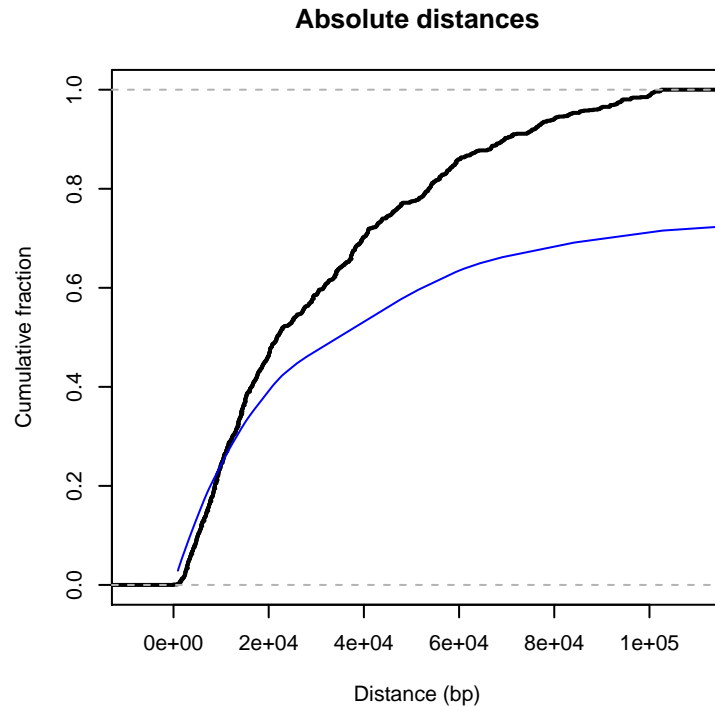
# pcontig\_005

Query population : 1300  
Reference population : 41  
Relative Ks p-value : 0.211206  
Relative ecdf deviation area : 0.00665357  
Relative ecdf area correlation : 0.0118054  
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 : TRUE  
Projection test p-value : 5.57096e-15  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0719362



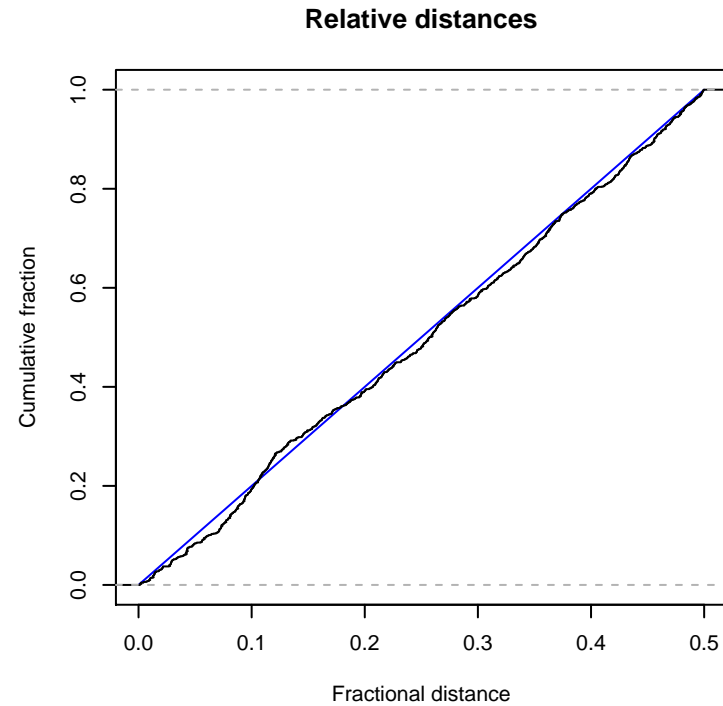
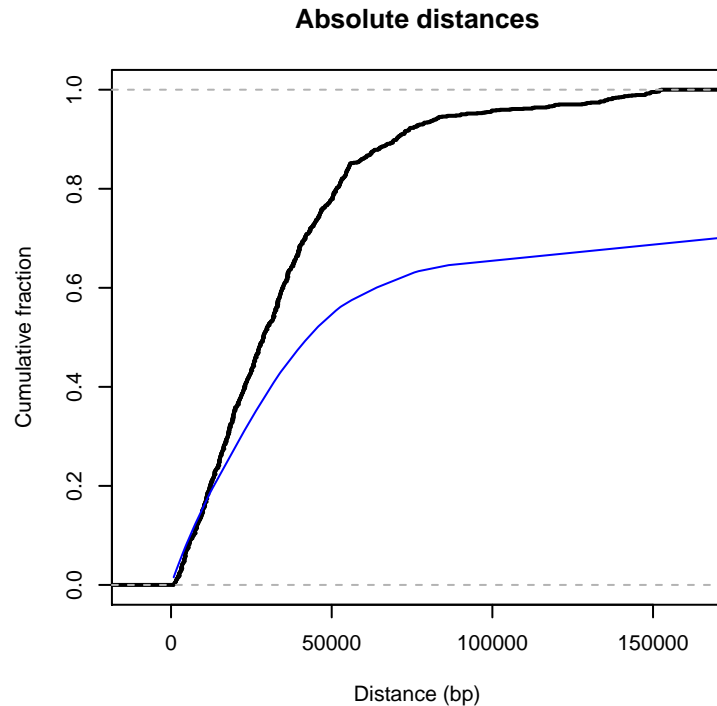
# pcontig\_006

Query population : 1069  
Reference population : 48  
Relative Ks p-value : 1.25344e-12  
Relative ecdf deviation area : 0.0383007  
Relative ecdf area correlation : -0.153318  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 1.05755e-12  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.1038



# pcontig\_007

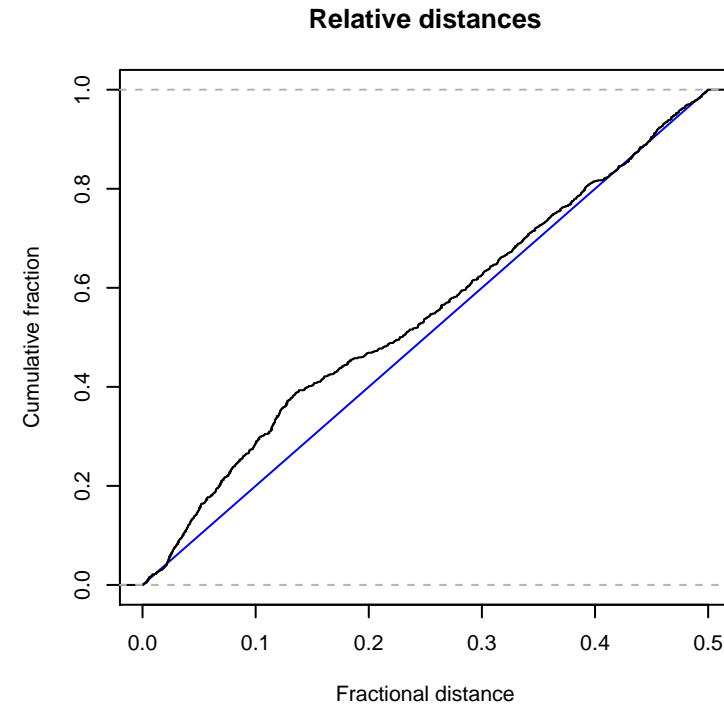
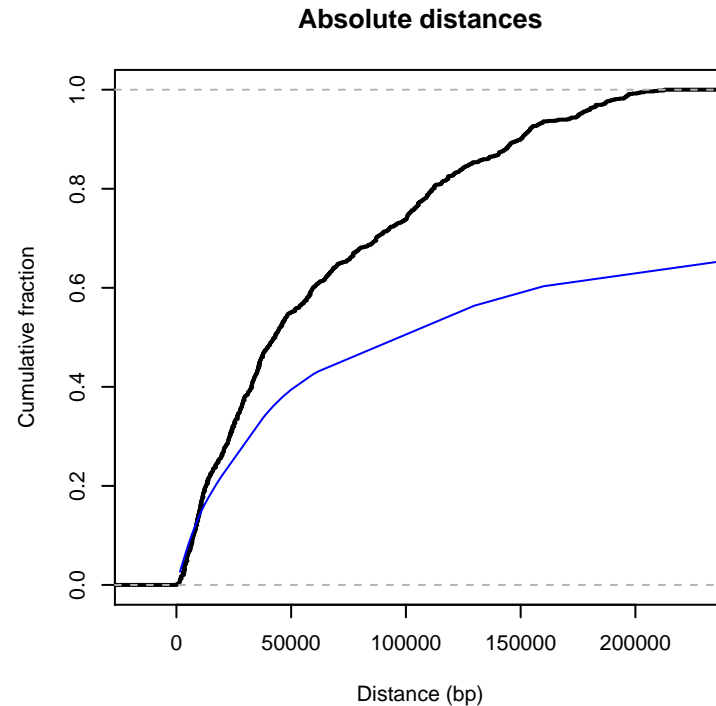
Query population : 1310  
Reference population : 29  
Relative Ks p-value : 0.0879339  
Relative ecdf deviation area : 0.00600476  
Relative ecdf area correlation : -0.0170398  
Relative ecdf deviation area p-value : 0.15  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 3.06e-13  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0





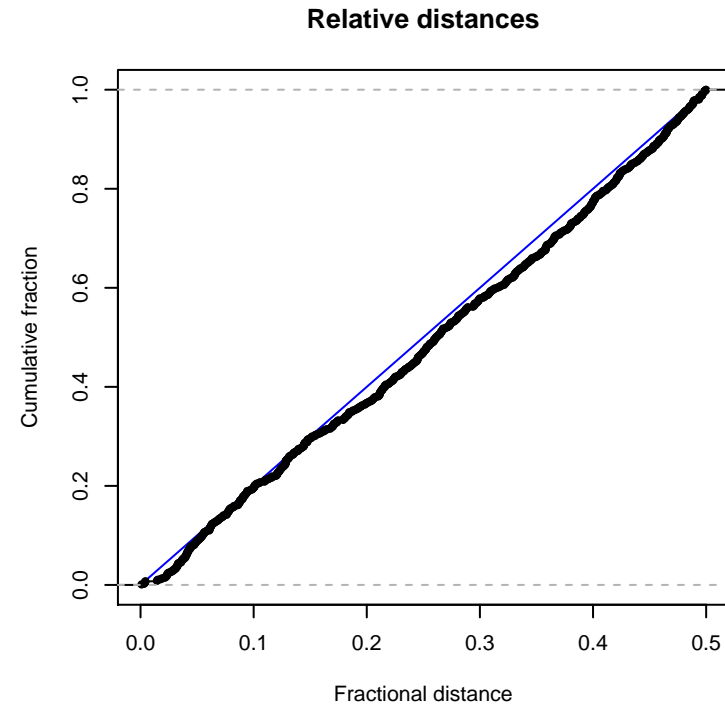
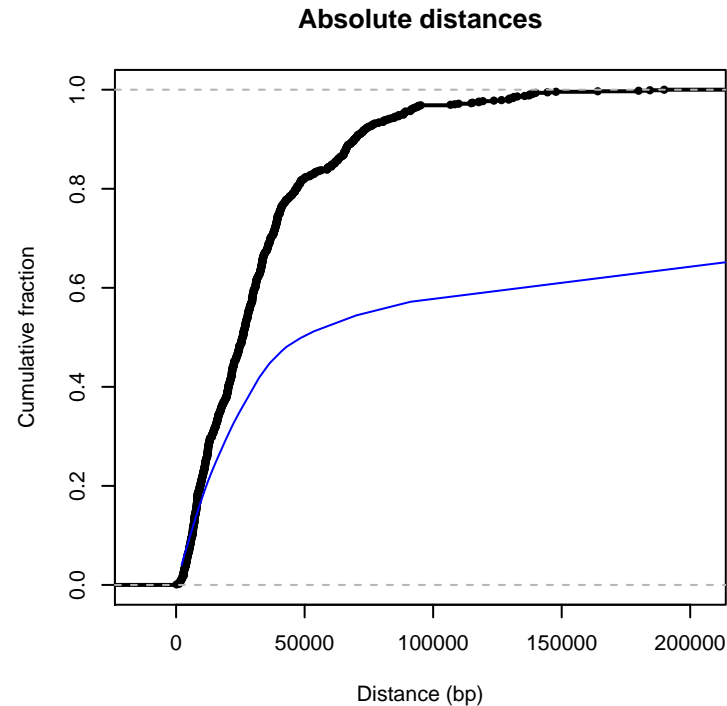
# pcontig\_008

Query population : 1175  
Reference population : 26  
Relative Ks p-value : 1.96509e-14  
Relative ecdf deviation area : 0.0204033  
Relative ecdf area correlation : 0.0809611  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 2.78546e-08  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0874858



## pcontig\_009

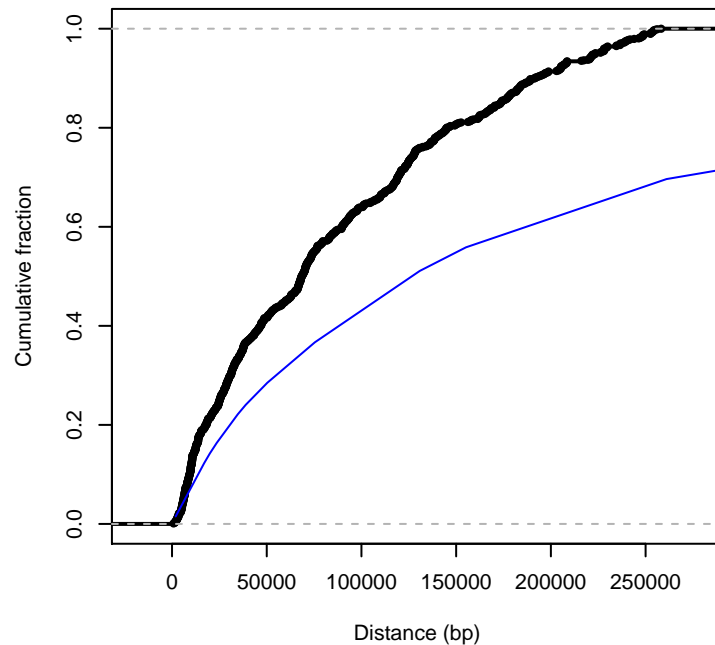
Query population : 954  
Reference population : 29  
Relative Ks p-value : 0.0829164  
Relative ecdf deviation area : 0.0109818  
Relative ecdf area correlation : -0.0424815  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 6.0211e-11  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0377366



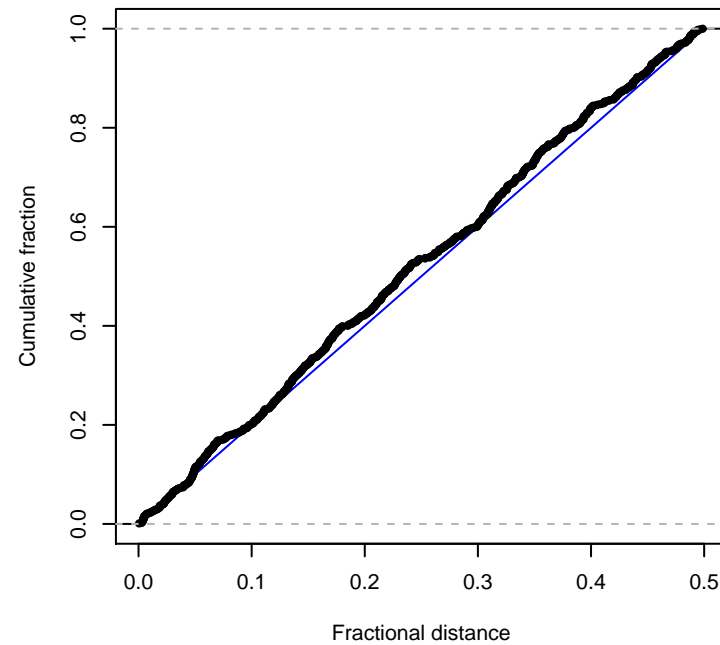
# pcontig\_010

Query population : 972  
Reference population : 12  
Relative Ks p-value : 0.0627526  
Relative ecdf deviation area : 0.00986977  
Relative ecdf area correlation : 0.0383319  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.000210649  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

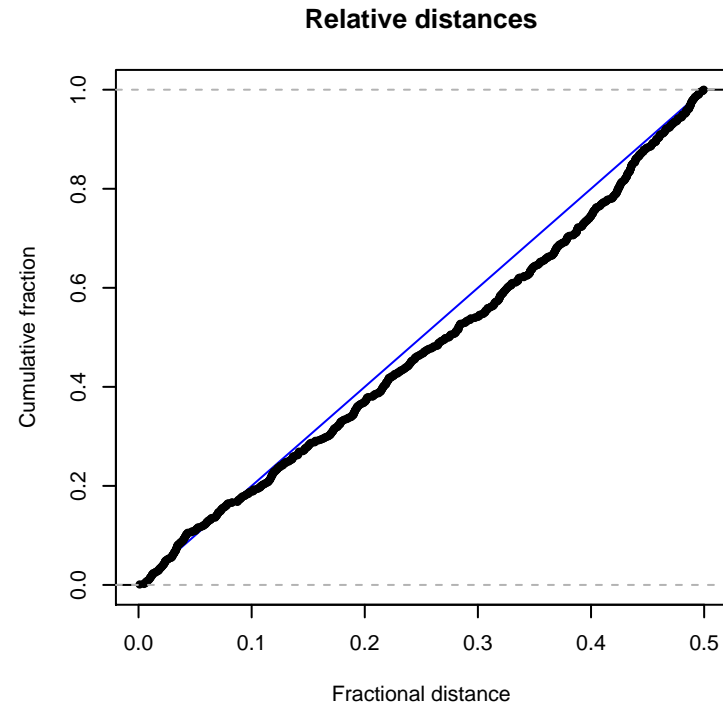
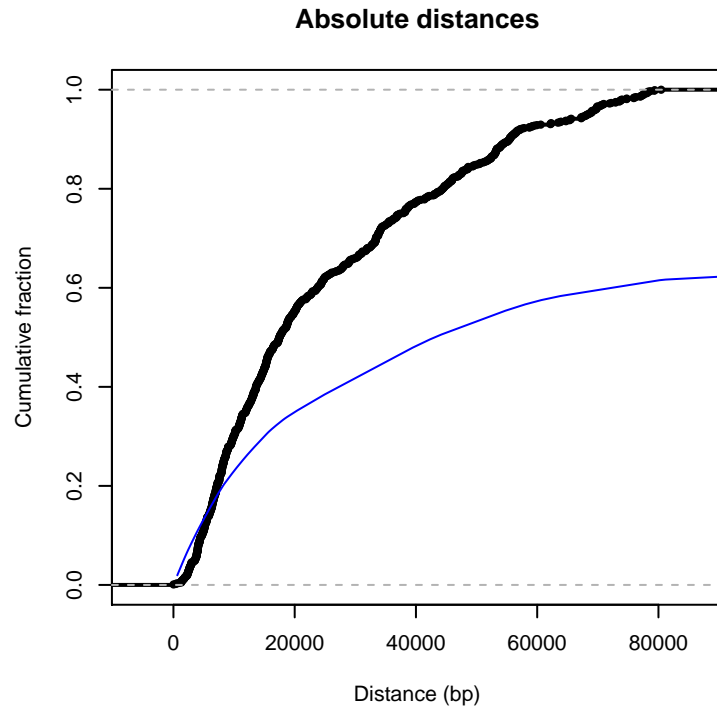


Relative distances



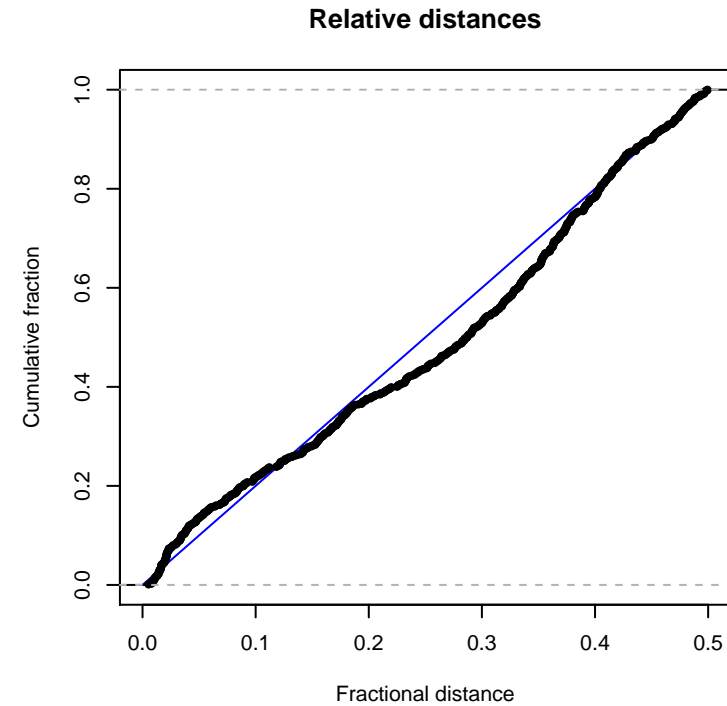
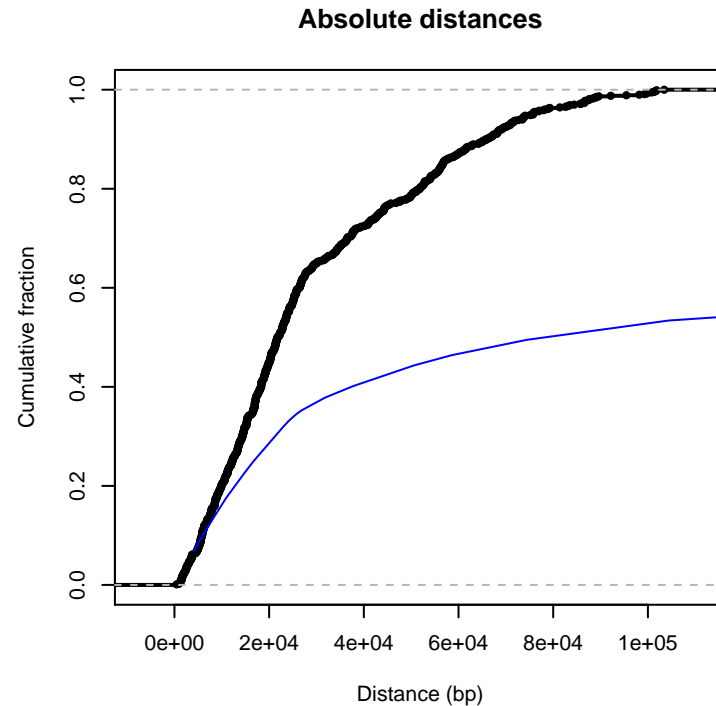
# pcontig\_011

Query population : 1007  
Reference population : 47  
Relative Ks p-value : 0.000241103  
Relative ecdf deviation area : 0.0151823  
Relative ecdf area correlation : -0.058173  
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 : 4.036e-12  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.107934



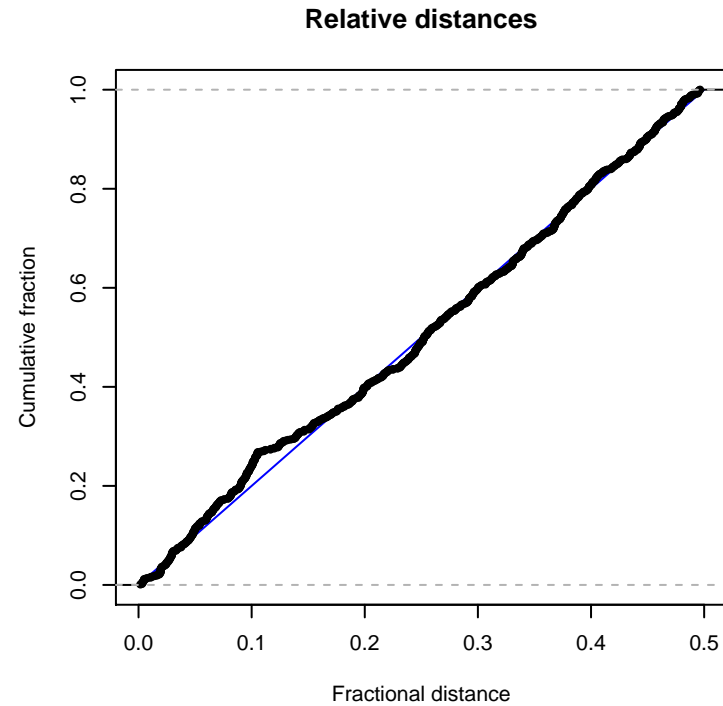
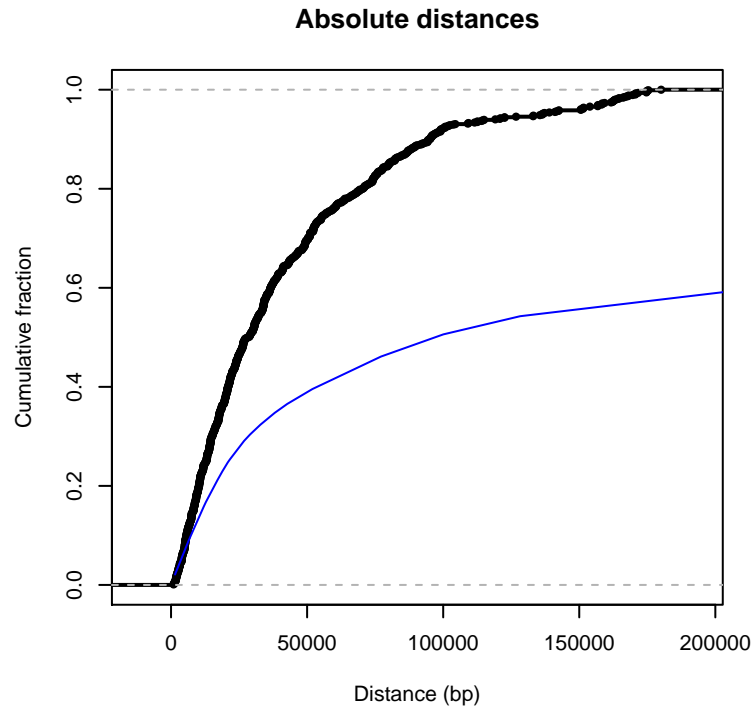
# pcontig\_012

Query population : 897  
Reference population : 26  
Relative Ks p-value : 3.79359e-05  
Relative ecdf deviation area : 0.0144062  
Relative ecdf area correlation : -0.0369987  
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 : 0.000191662  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.237662



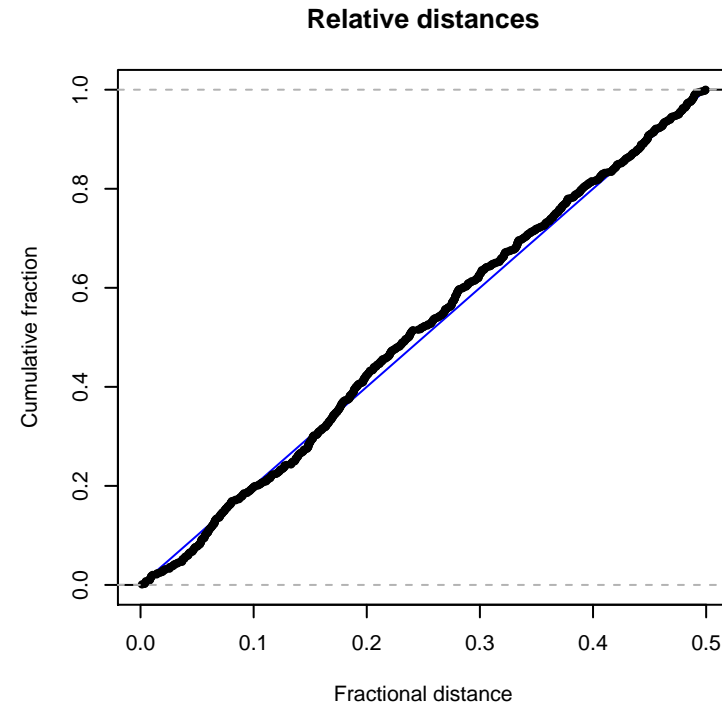
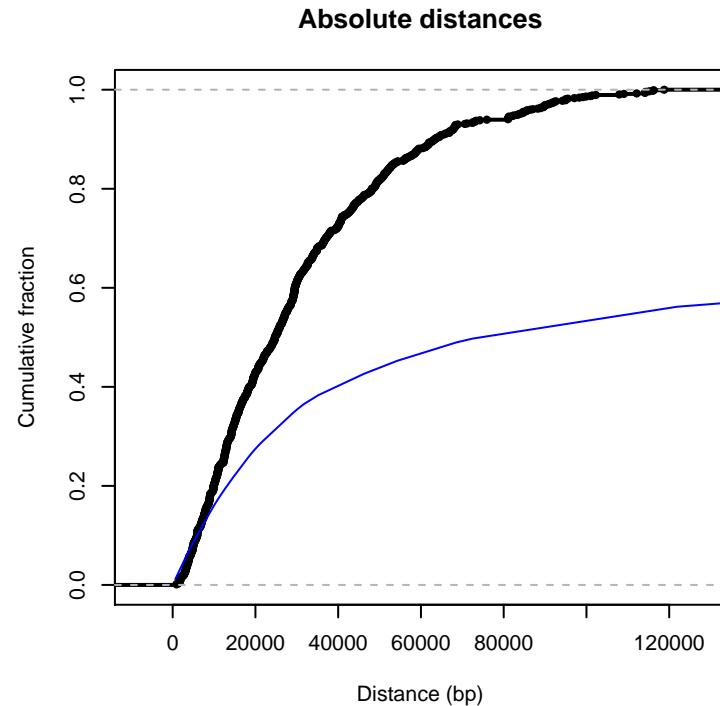
# pcontig\_013

Query population : 936  
Reference population : 22  
Relative Ks p-value : 0.00447907  
Relative ecdf deviation area : 0.00586475  
Relative ecdf area correlation : 0.00751126  
Relative ecdf deviation area p-value : 0.3  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 1.52164e-06  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0620673



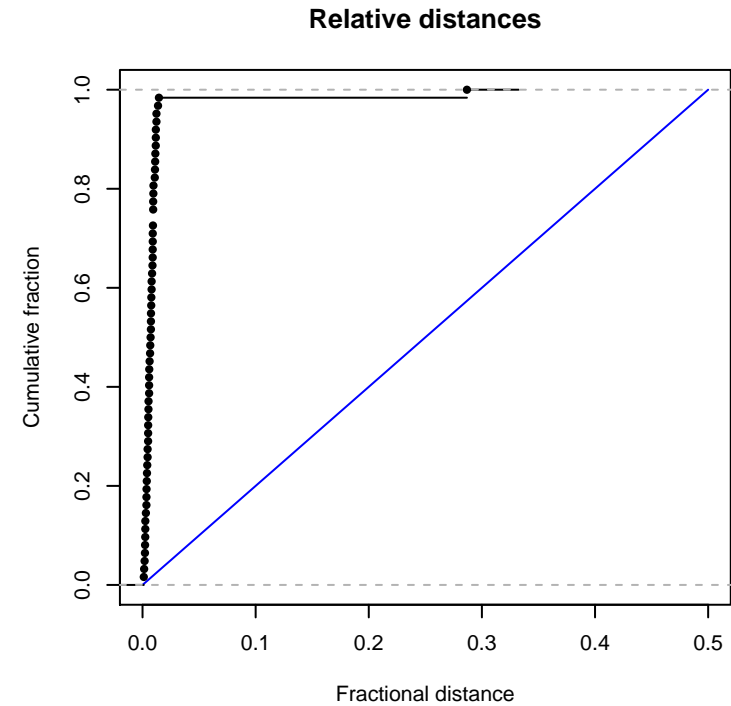
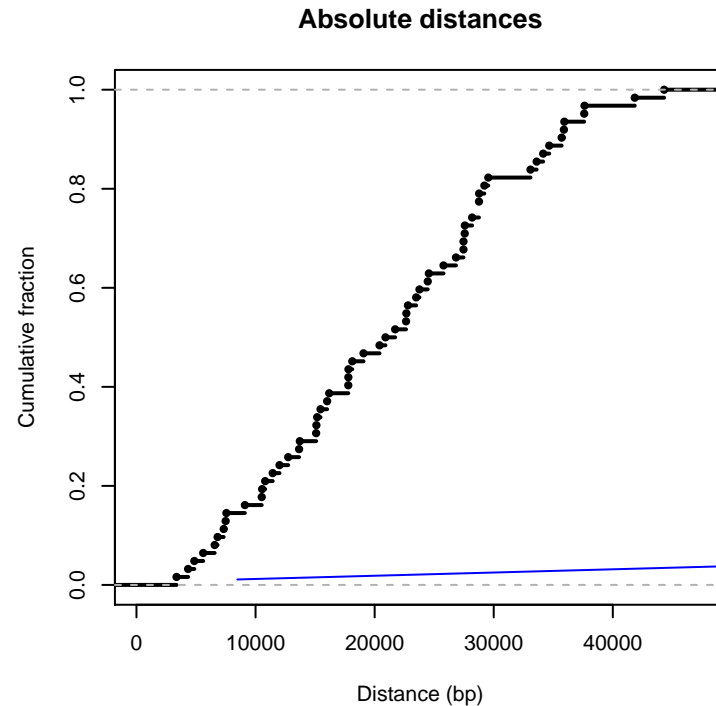
# pcontig\_014

Query population : 941  
Reference population : 28  
Relative Ks p-value : 0.234605  
Relative ecdf deviation area : 0.00705977  
Relative ecdf area correlation : 0.0129696  
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 : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 7.04592e-10  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0416566



# pcontig\_015

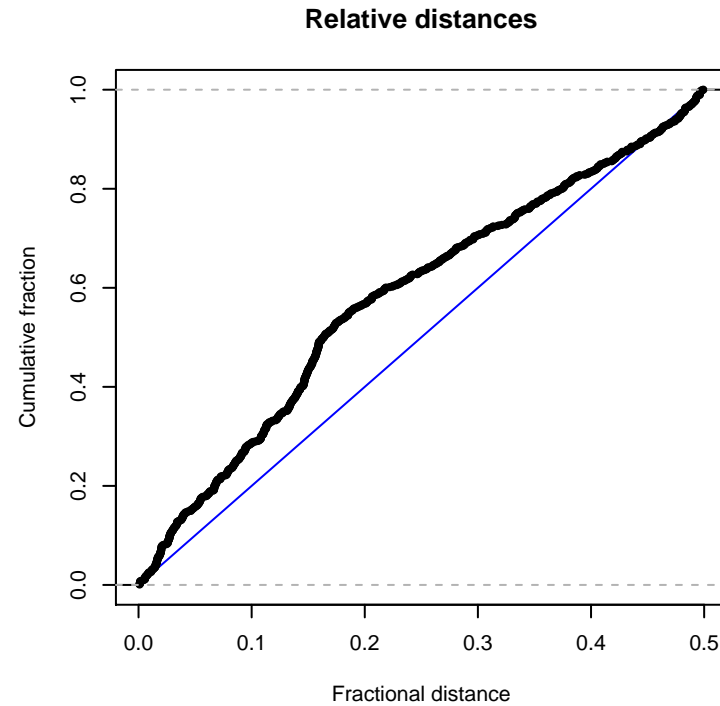
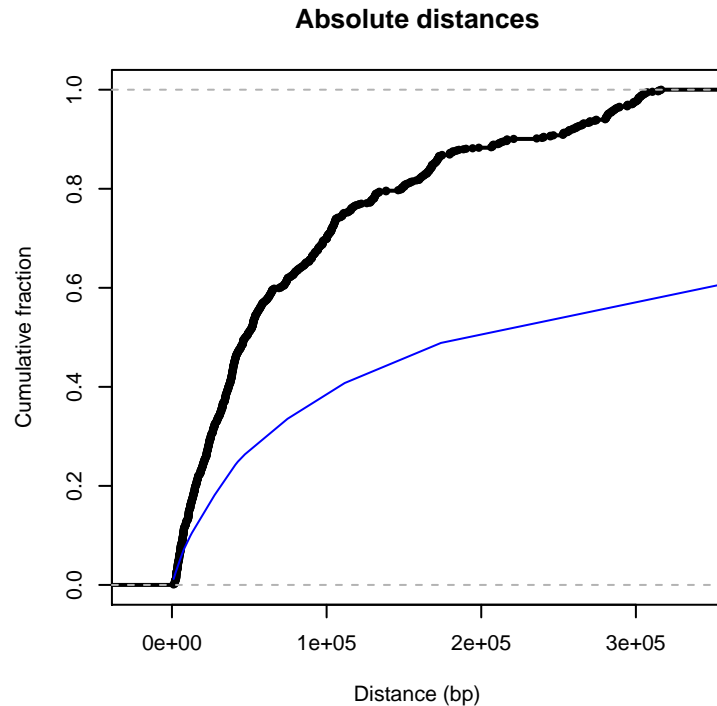
Query population : 62  
Reference population : 2  
Relative Ks p-value : 7.77156e-16  
Relative ecdf deviation area : 0.23828  
Relative ecdf area correlation : 0.95395  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.18  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0803378  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





# pcontig\_016

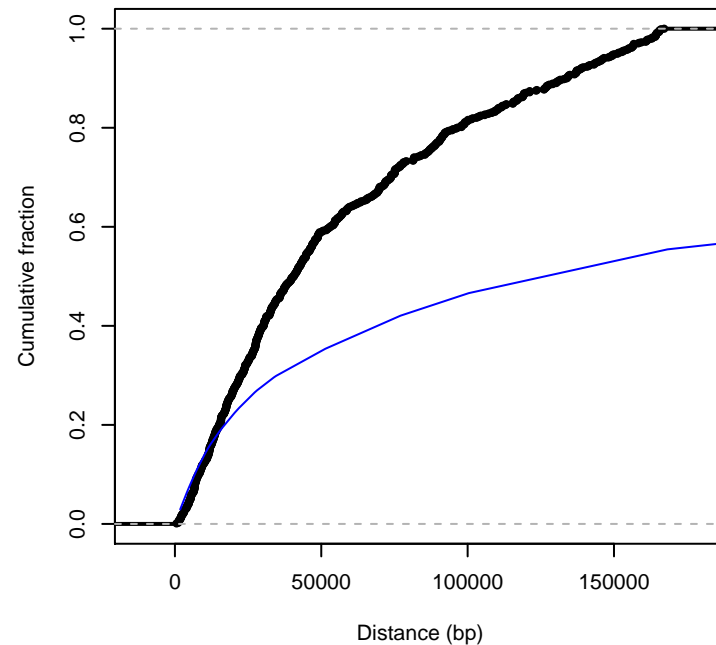
Query population : 956  
Reference population : 17  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0400095  
Relative ecdf area correlation : 0.157837  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 3.12674e-07  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



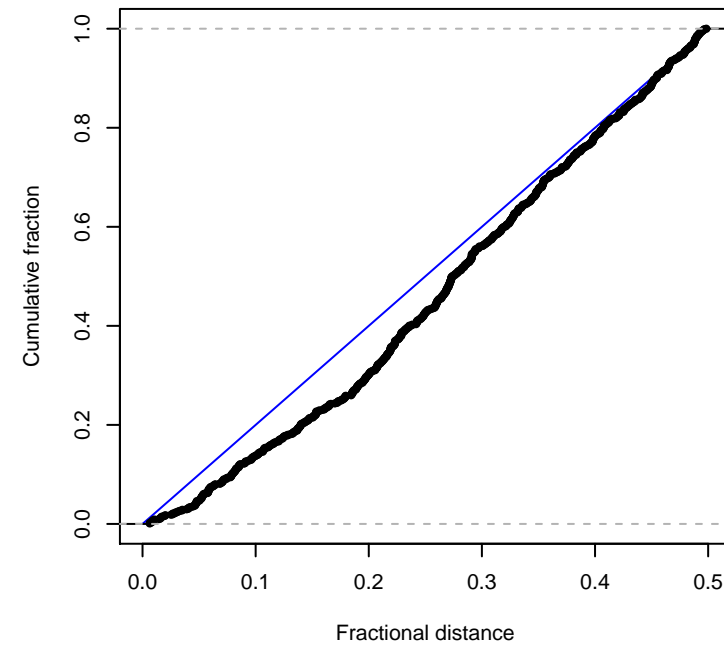
# pcontig\_017

Query population : 912  
Reference population : 25  
Relative Ks p-value : 5.28641e-10  
Relative ecdf deviation area : 0.0240333  
Relative ecdf area correlation : -0.0954446  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 1.81928e-06  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0628077

Absolute distances



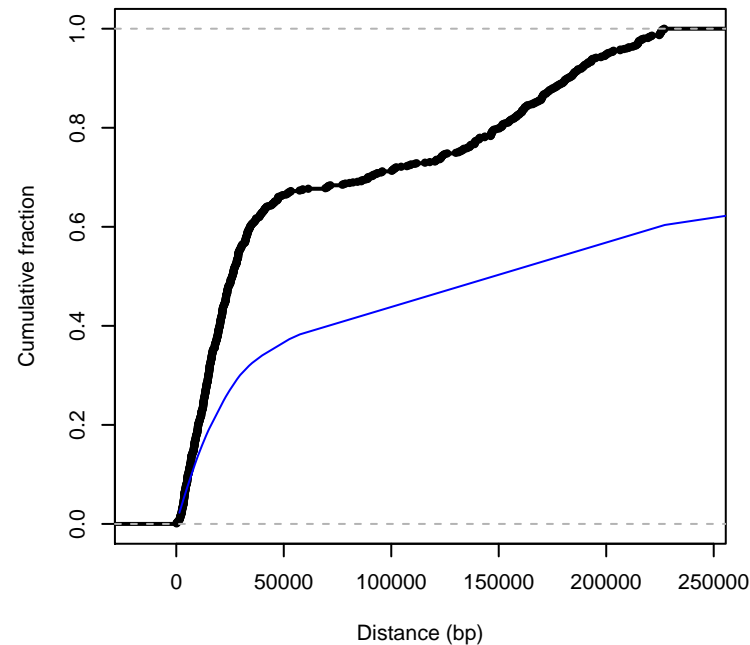
Relative distances



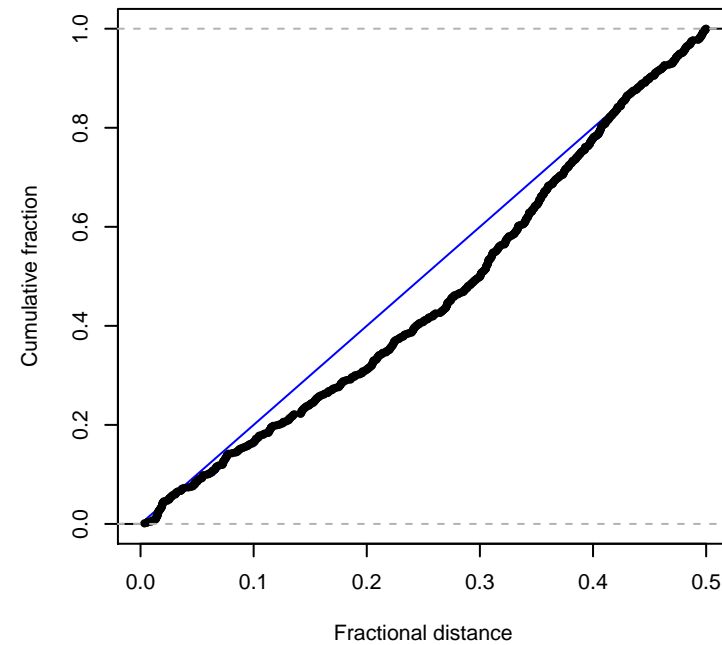
# pcontig\_018

Query population : 854  
Reference population : 24  
Relative Ks p-value : 1.34048e-08  
Relative ecdf deviation area : 0.022979  
Relative ecdf area correlation : -0.0910416  
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 : 0.000826702  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.267555

Absolute distances



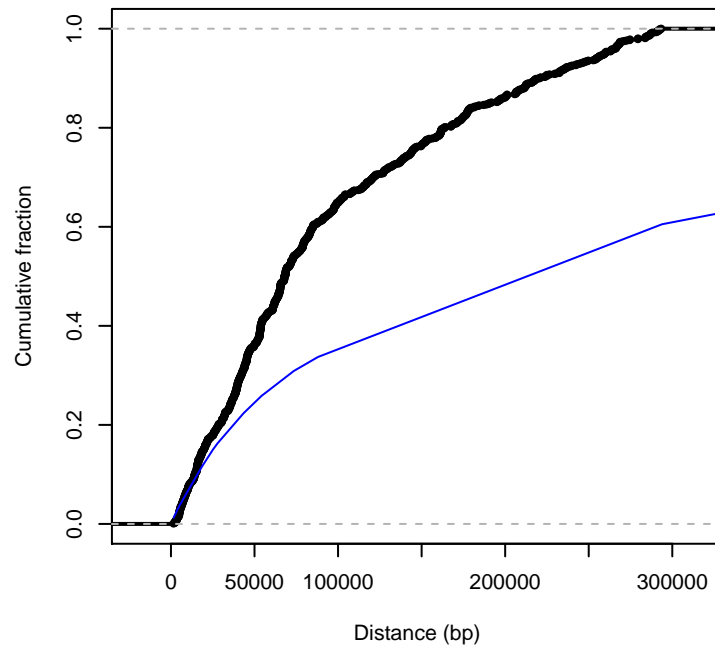
Relative distances



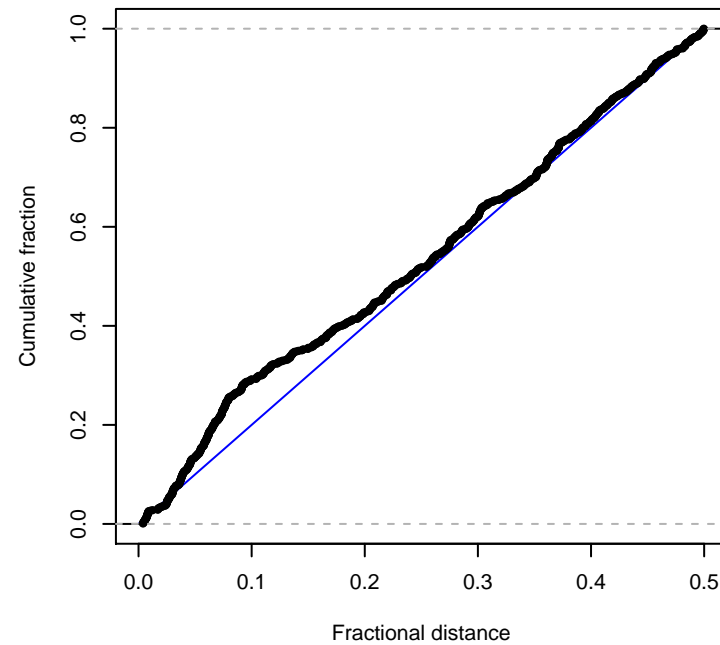
# pcontig\_019

Query population : 1007  
Reference population : 12  
Relative Ks p-value : 1.41594e-08  
Relative ecdf deviation area : 0.0140486  
Relative ecdf area correlation : 0.0558842  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 5.56869e-05  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



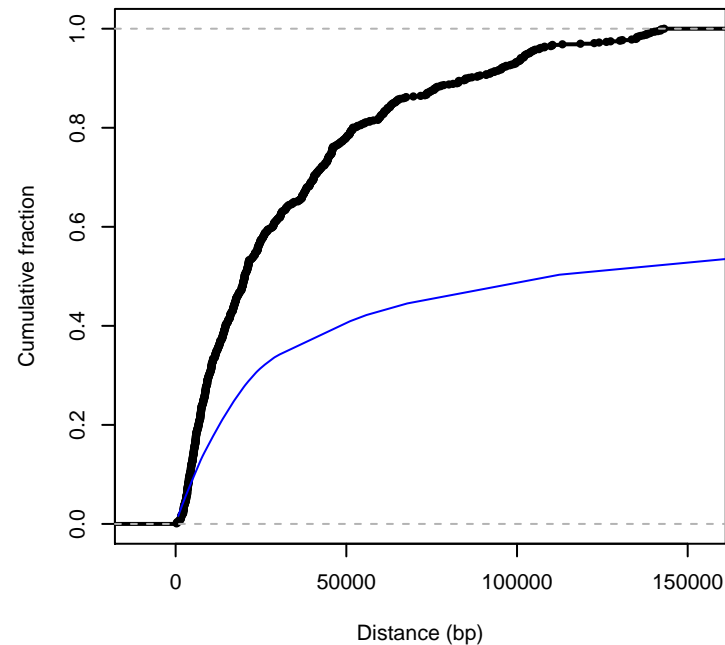
Relative distances



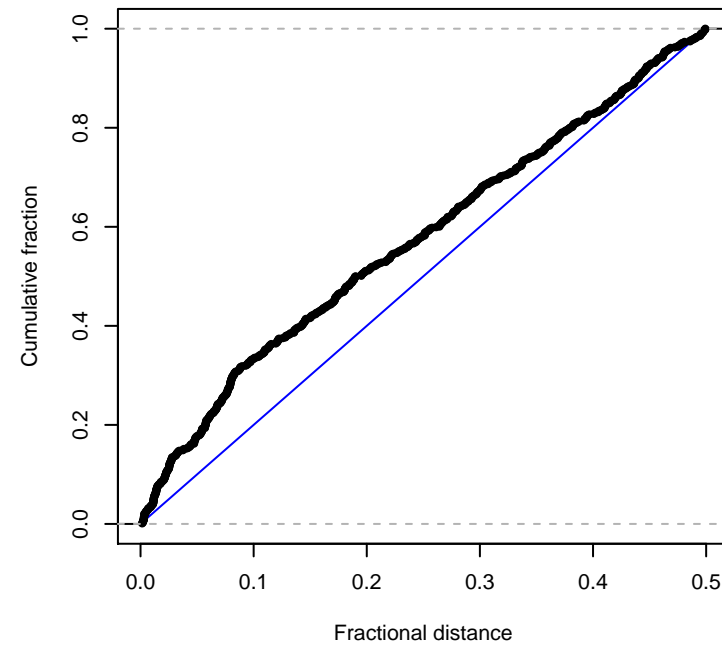
# pcontig\_020

Query population : 826  
Reference population : 32  
Relative Ks p-value :  $1.83187\text{e-}14$   
Relative ecdf deviation area : 0.0352632  
Relative ecdf area correlation : 0.140663  
Relative ecdf deviation area p-value :  $<0.01$   
Scaled Absolute min. distance p-value :  $<0.01$   
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value :  $<0.01$   
Jaccard Measure lower tail : TRUE  
Projection test p-value :  $2.26274\text{e-}05$   
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.205575

Absolute distances

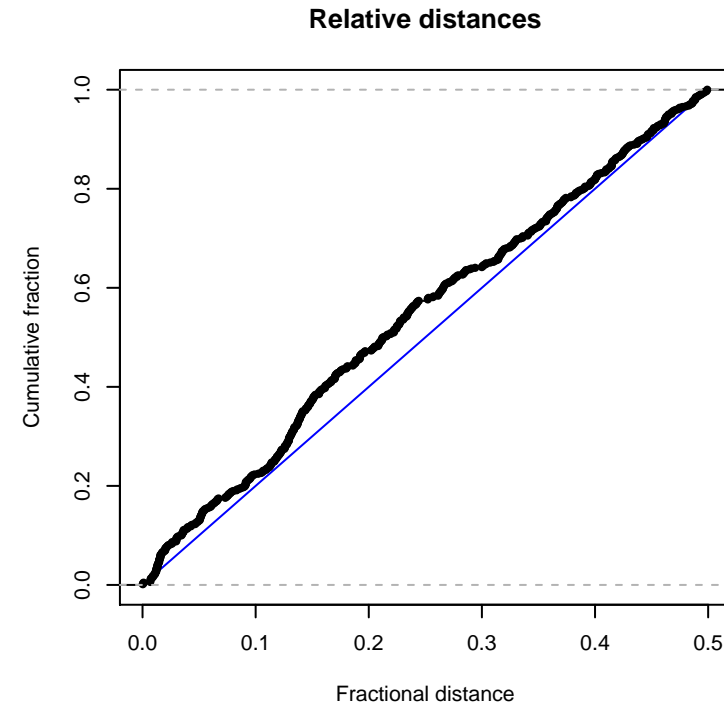
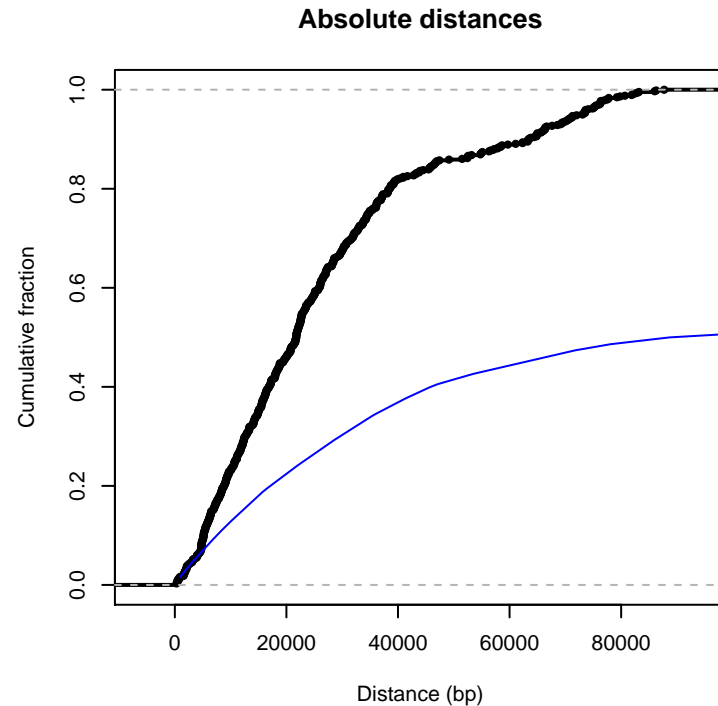


Relative distances



# pcontig\_021

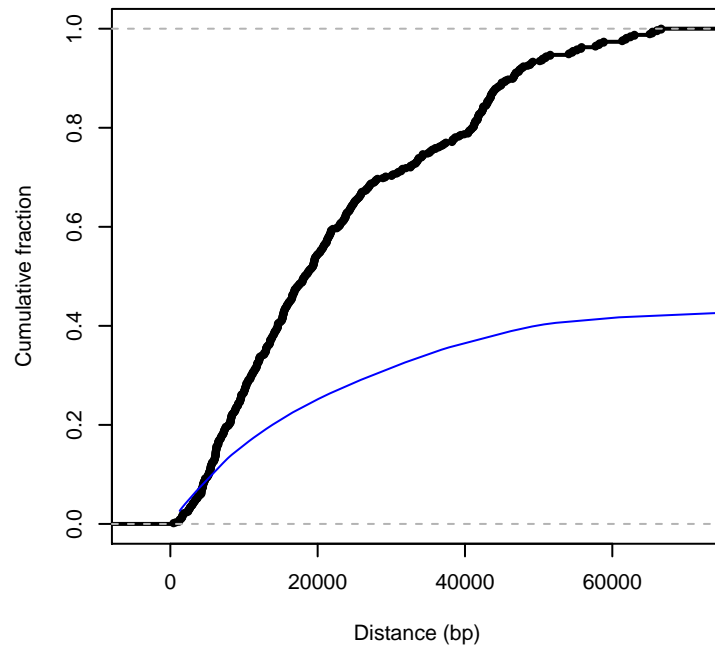
Query population : 659  
Reference population : 25  
Relative Ks p-value : 0.000122771  
Relative ecdf deviation area : 0.0192829  
Relative ecdf area correlation : 0.0772868  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.47  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.37138  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.03965



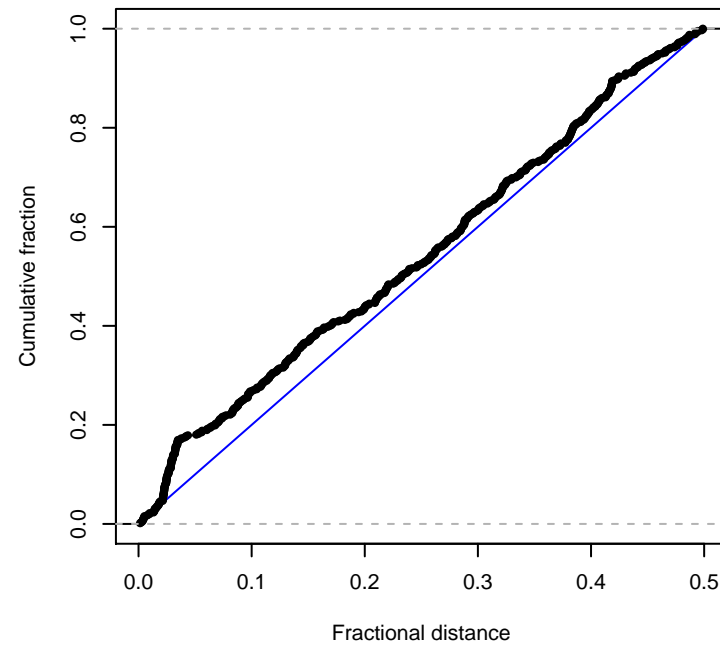
# pcontig\_022

Query population : 643  
Reference population : 32  
Relative Ks p-value : 5.40968e-06  
Relative ecdf deviation area : 0.0200055  
Relative ecdf area correlation : 0.0808618  
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 : 0.27  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.00016272  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.150975

Absolute distances

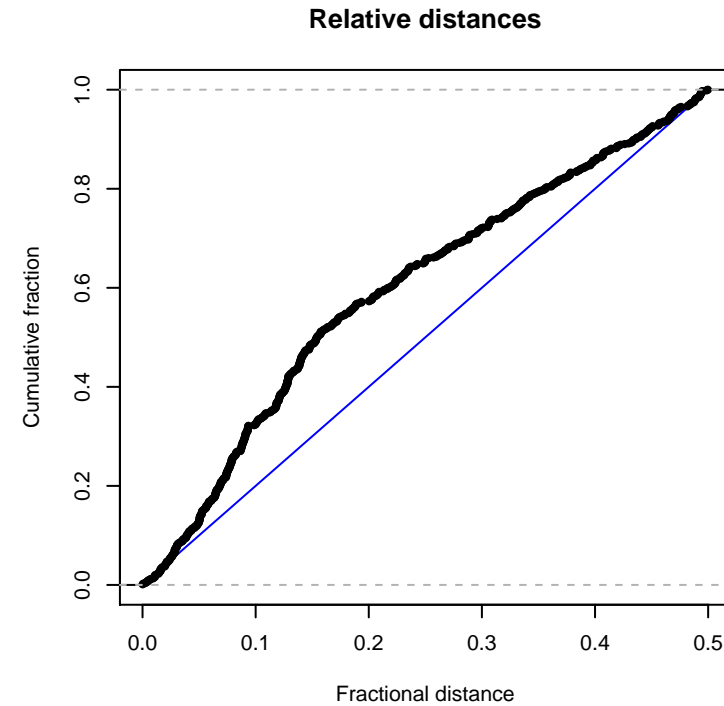
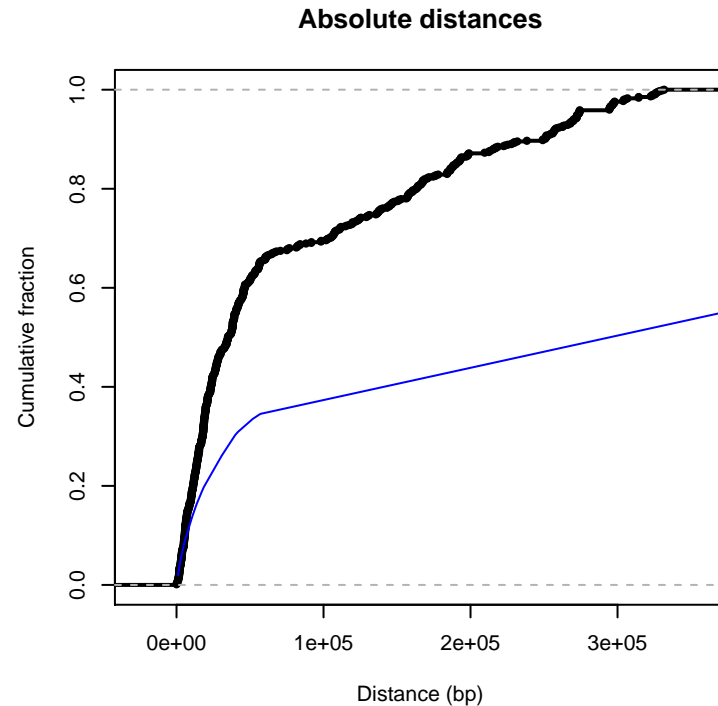


Relative distances



# pcontig\_023

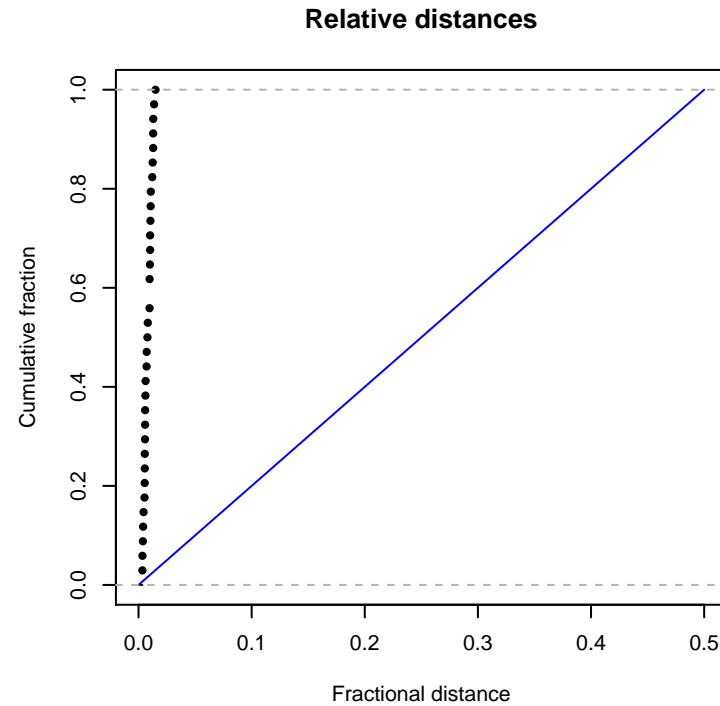
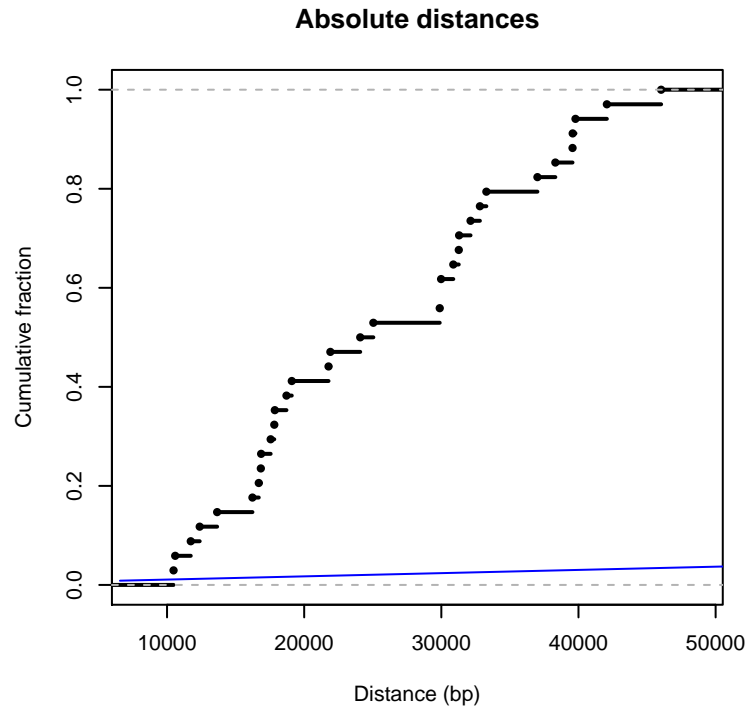
Query population : 747  
Reference population : 31  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.04765  
Relative ecdf area correlation : 0.190419  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.00014084  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.232661





# pcontig\_024

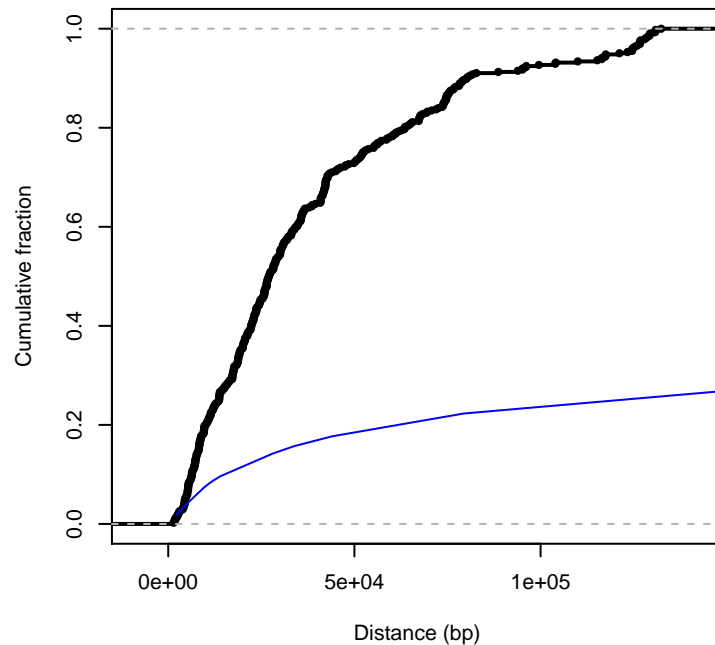
Query population : 34  
Reference population : 2  
Relative Ks p-value : 2.22045e-16  
Relative ecdf deviation area : 0.241704  
Relative ecdf area correlation : 0.966426  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.12  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0733163  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



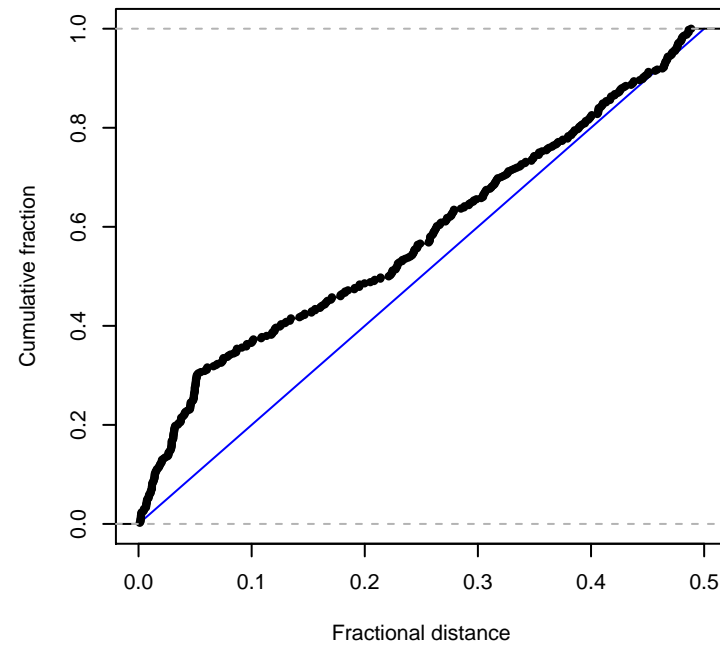
## pcontig\_025

Query population : 424  
Reference population : 13  
Relative Ks p-value :  $6.32827e-15$   
Relative ecdf deviation area : 0.0380383  
Relative ecdf area correlation : 0.152098  
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 : 0.0134487  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.15982

Absolute distances

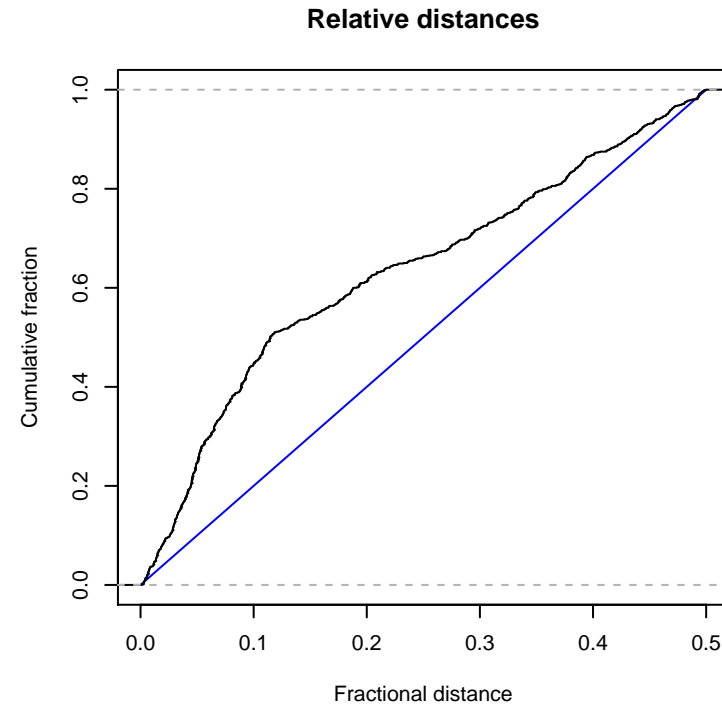
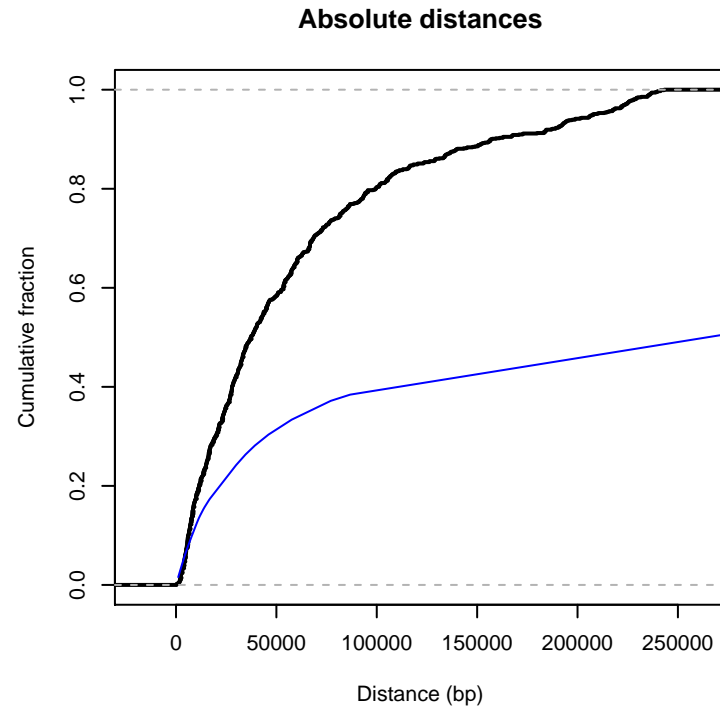


Relative distances



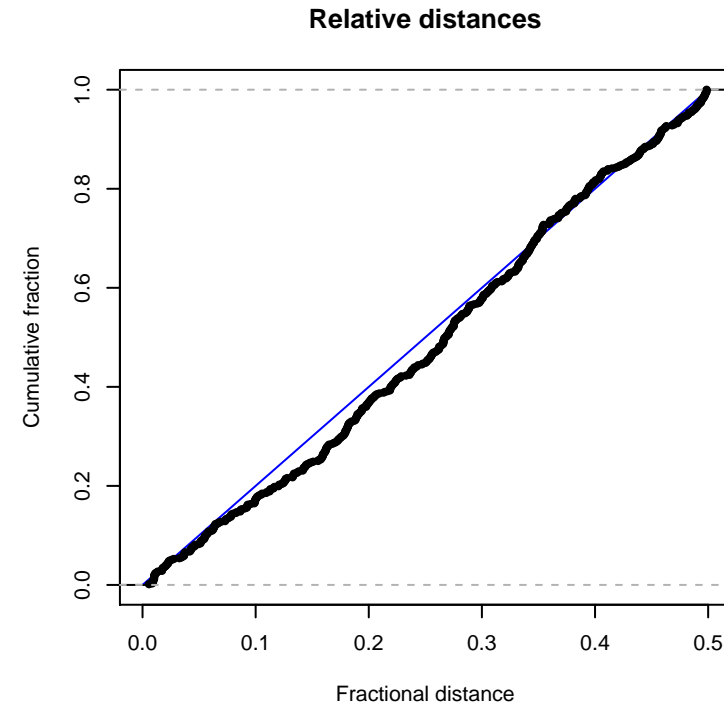
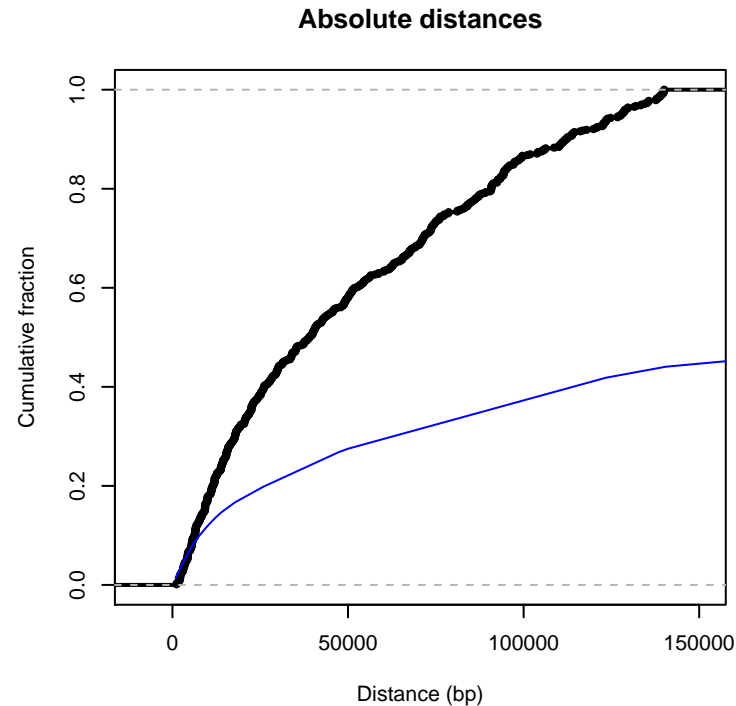
# pcontig\_026

Query population : 1040  
Reference population : 22  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0655957  
Relative ecdf area correlation : 0.262053  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 1.46234e-05  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.165891



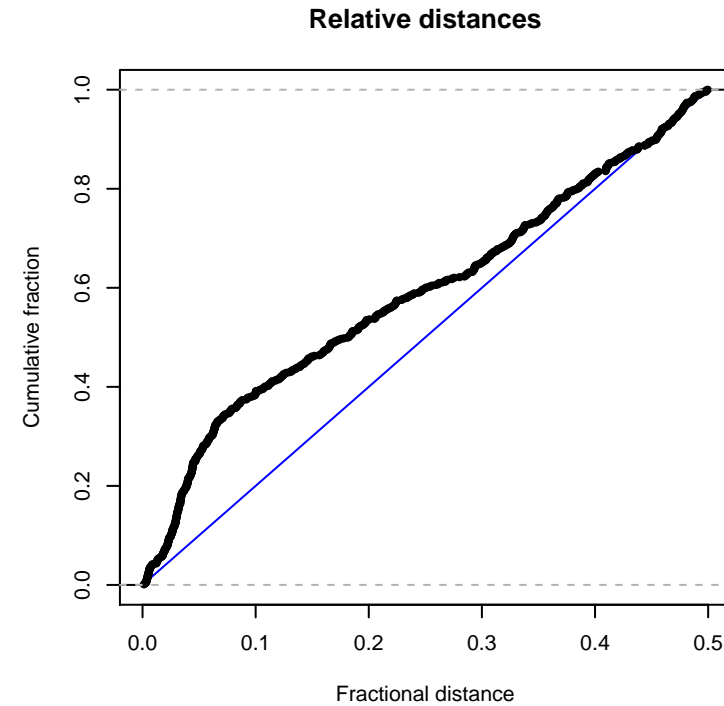
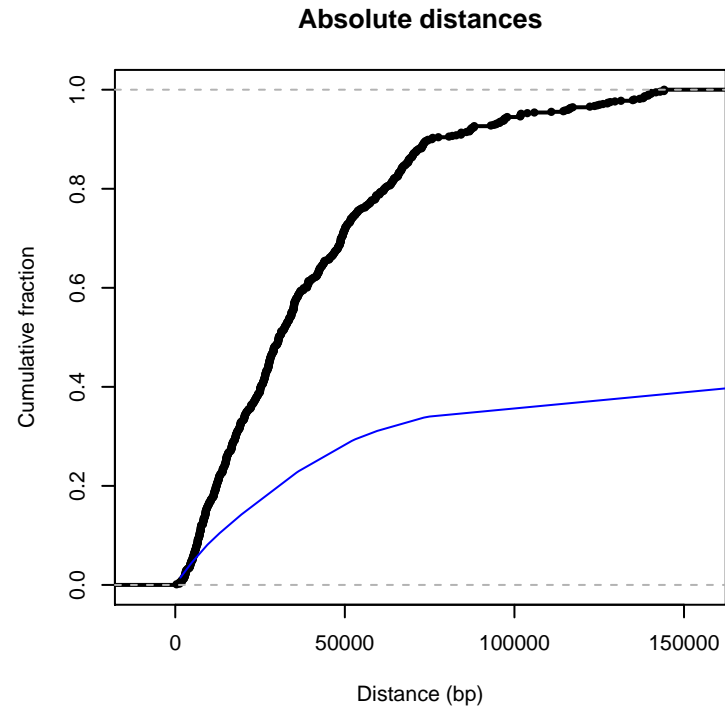
# pcontig\_027

Query population : 667  
Reference population : 25  
Relative Ks p-value : 0.00996307  
Relative ecdf deviation area : 0.0116601  
Relative ecdf area correlation : -0.0402408  
Relative ecdf deviation area p-value : 0.02  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 1.64922e-05  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0736874



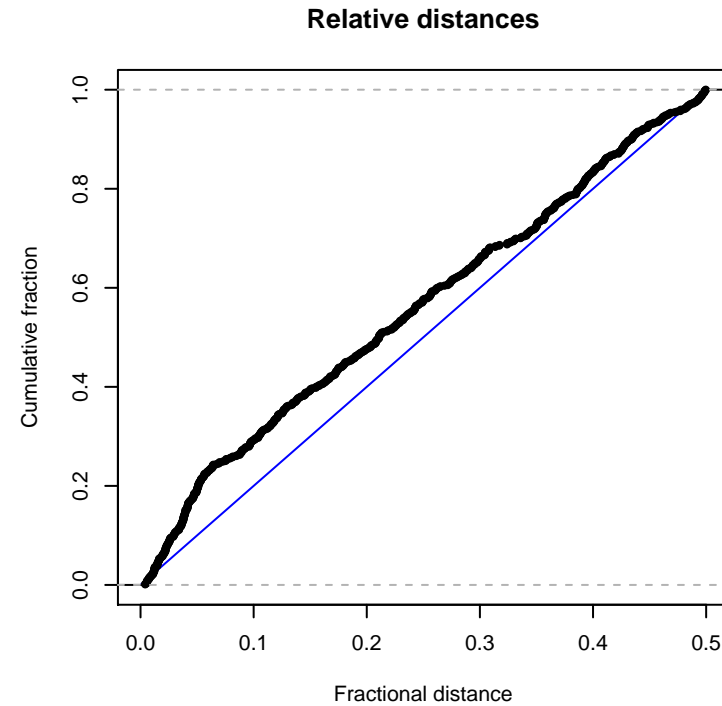
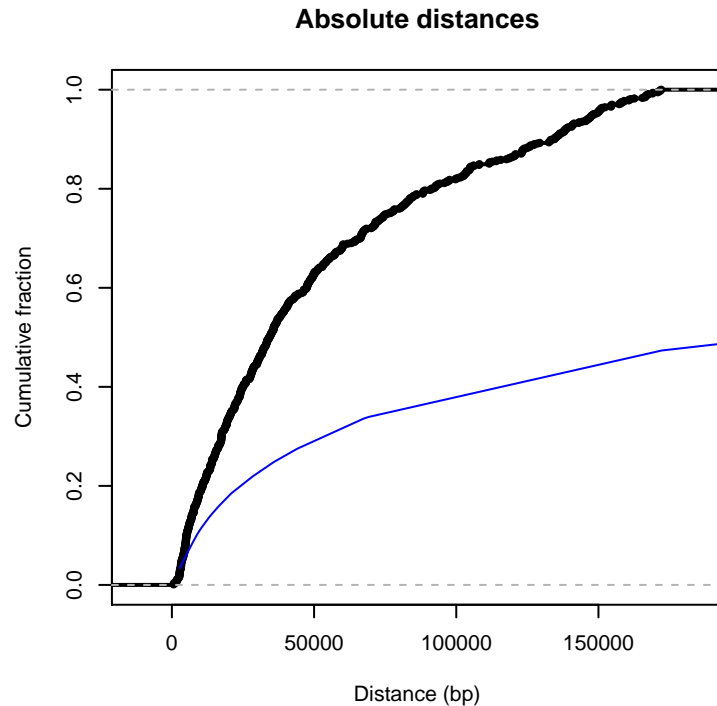
# pcontig\_028

Query population : 761  
Reference population : 15  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0429946  
Relative ecdf area correlation : 0.171112  
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 : 0.00150344  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.114474



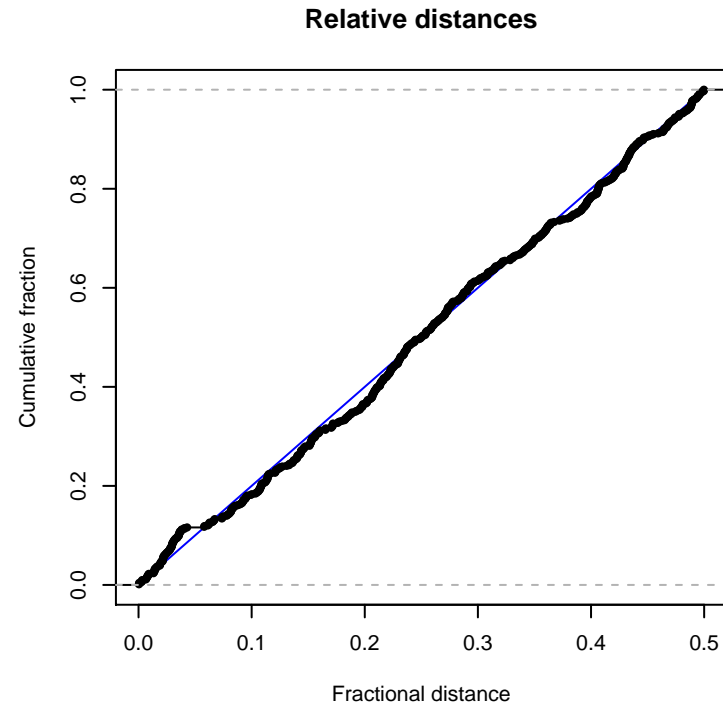
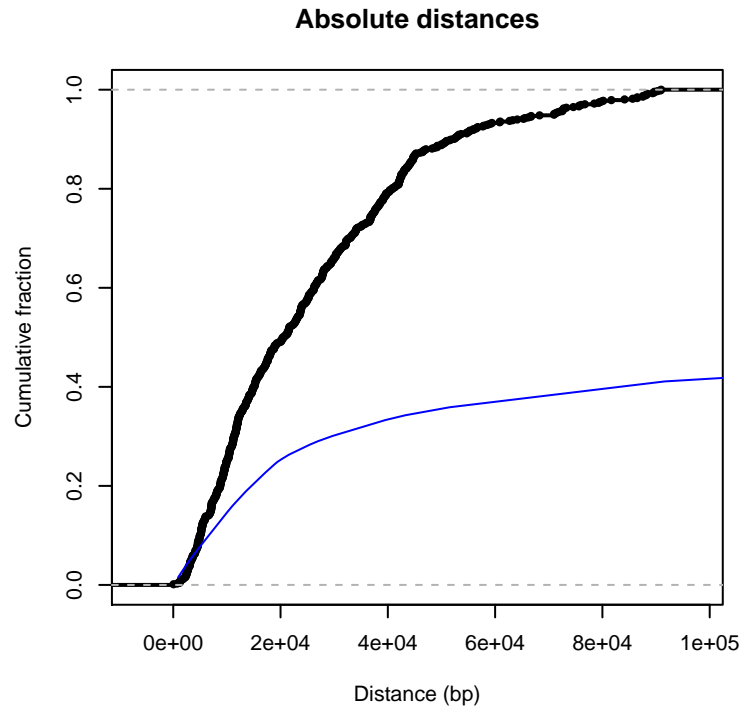
# pcontig\_029

Query population : 791  
Reference population : 19  
Relative Ks p-value : 2.45577e-09  
Relative ecdf deviation area : 0.0284686  
Relative ecdf area correlation : 0.112248  
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 : 0.00060987  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.102819



# pcontig\_030

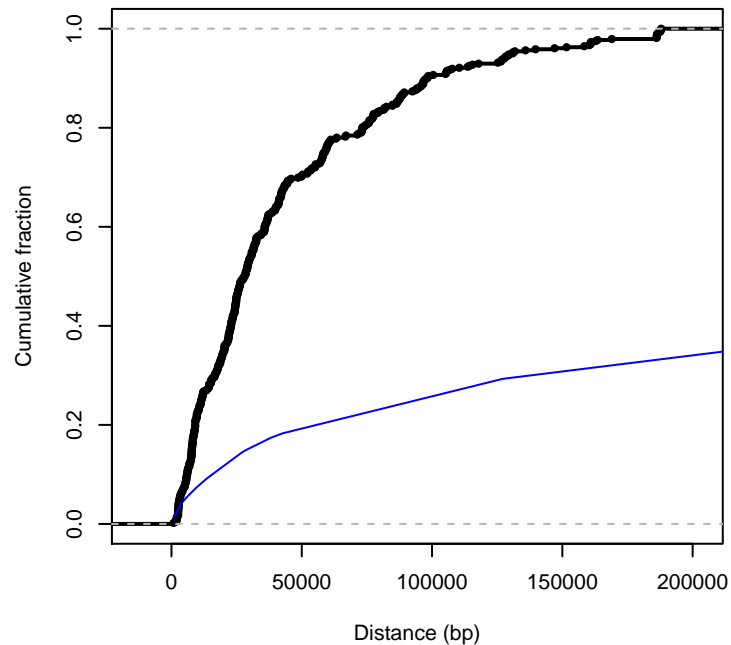
Query population : 715  
Reference population : 26  
Relative Ks p-value : 0.243969  
Relative ecdf deviation area : 0.00644706  
Relative ecdf area correlation : -0.0128363  
Relative ecdf deviation area p-value : 0.33  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.26  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.00473841  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.273057



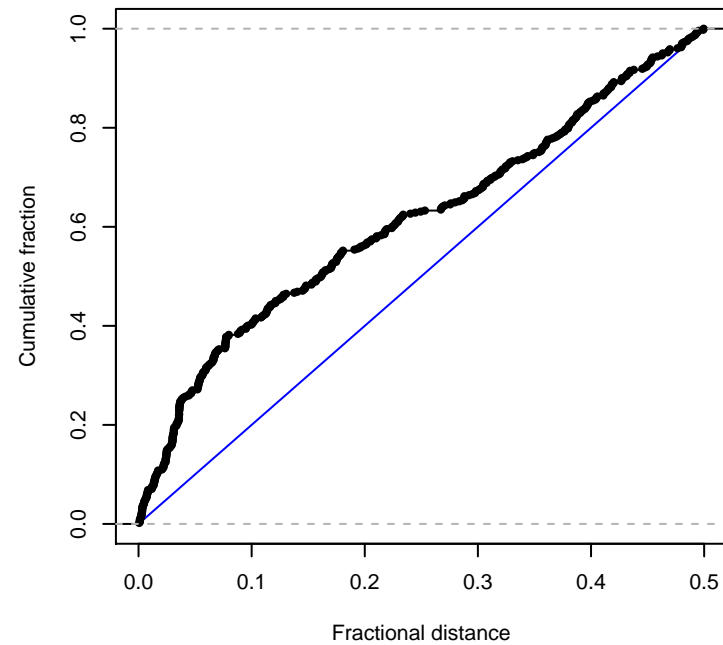
# pcontig\_031

Query population : 482  
Reference population : 19  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0543265  
Relative ecdf area correlation : 0.21781  
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 : 0.00201769  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



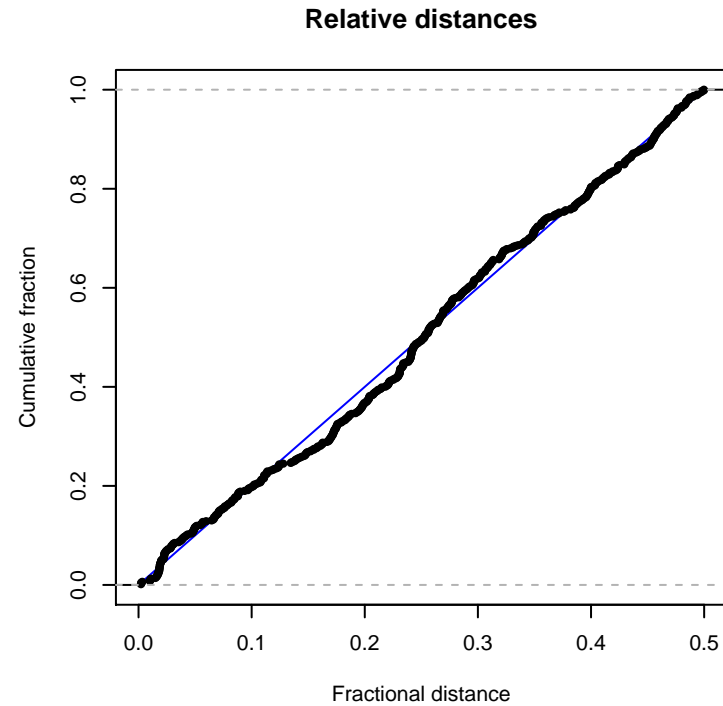
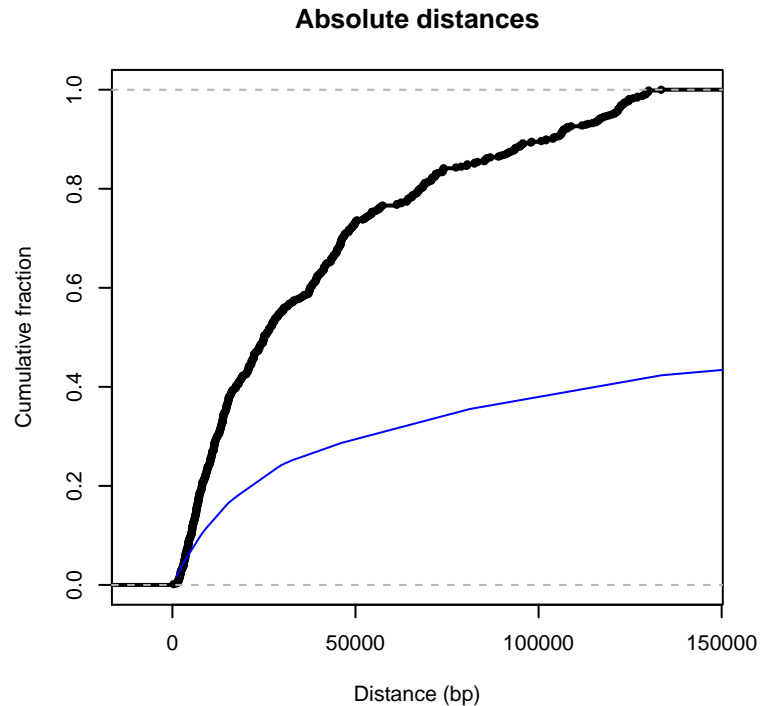
Relative distances





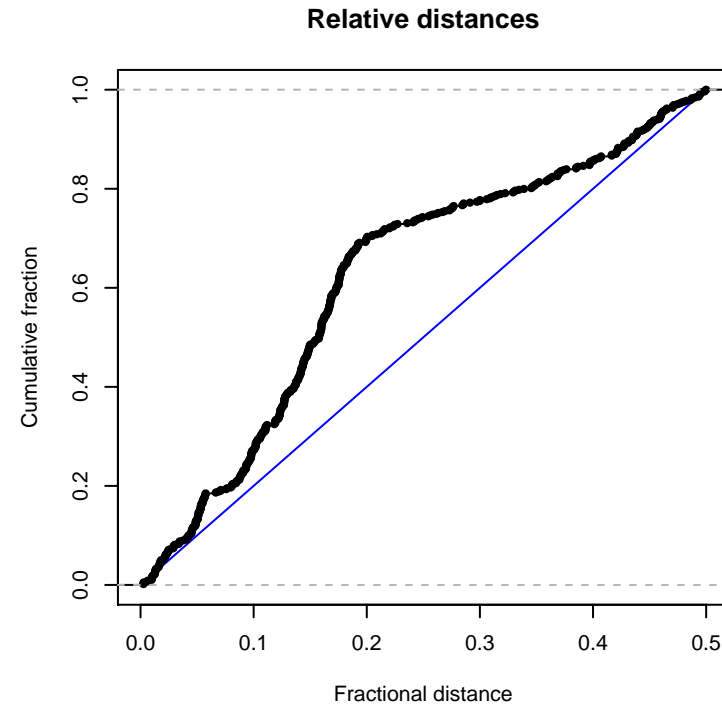
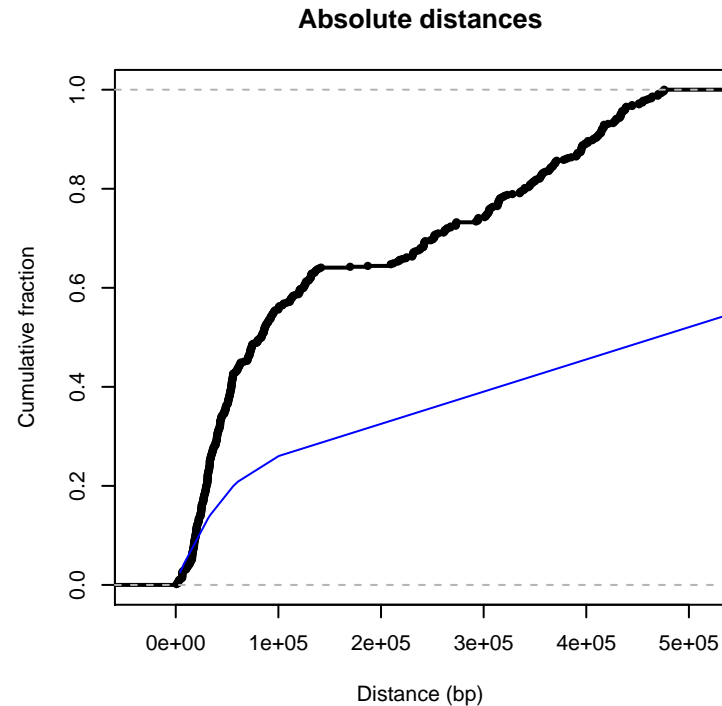
# pcontig\_033

Query population : 637  
Reference population : 24  
Relative Ks p-value : 0.117283  
Relative ecdf deviation area : 0.00734204  
Relative ecdf area correlation : -0.00791138  
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 : TRUE  
Projection test p-value : 0.00406296  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.268352



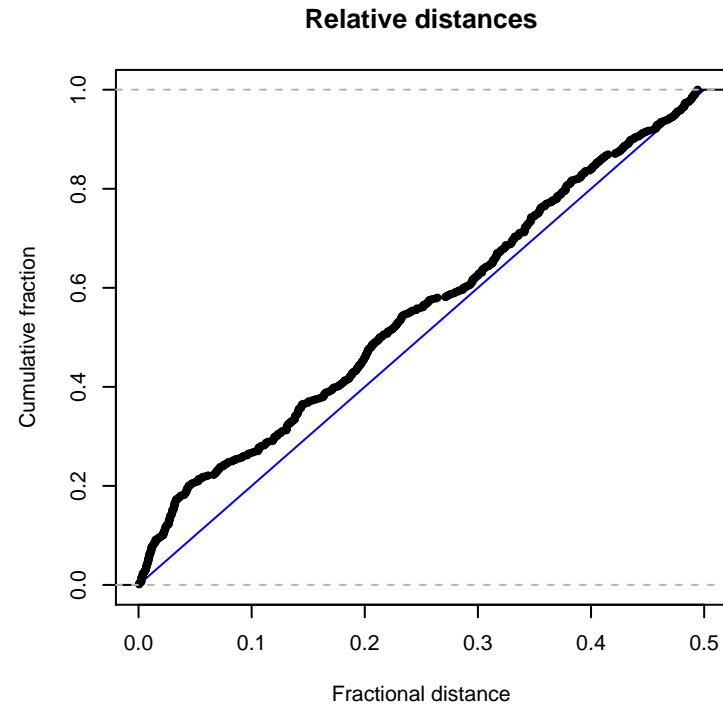
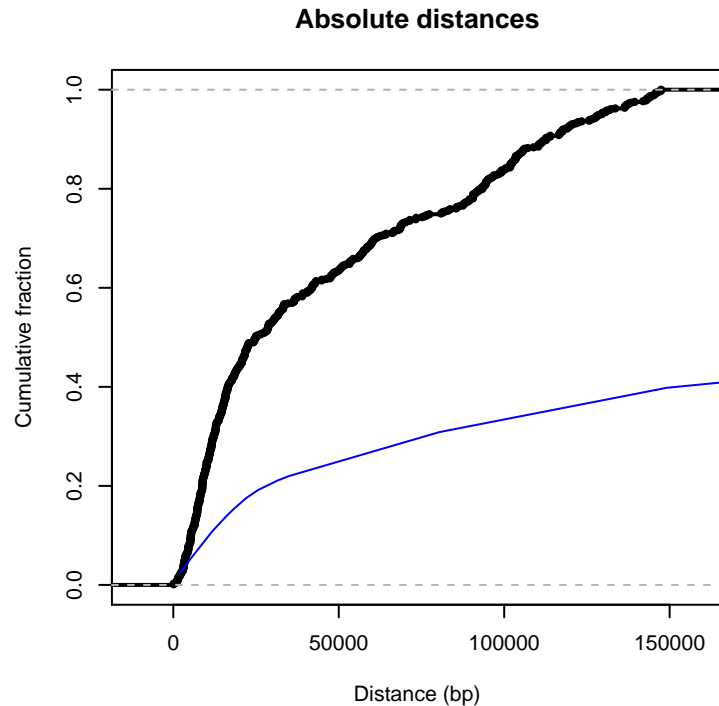
# pcontig\_034

Query population : 579  
Reference population : 9  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0593671  
Relative ecdf area correlation : 0.237005  
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 : 0.00370076  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



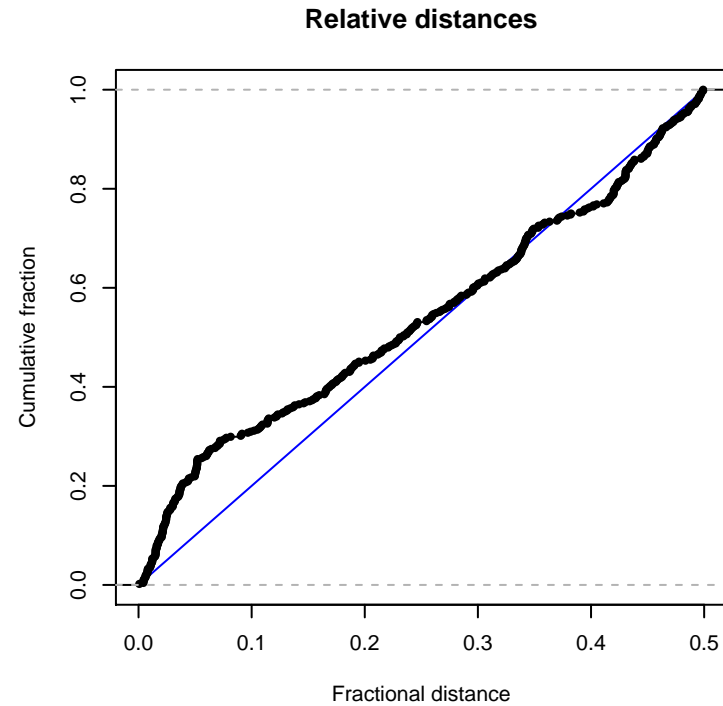
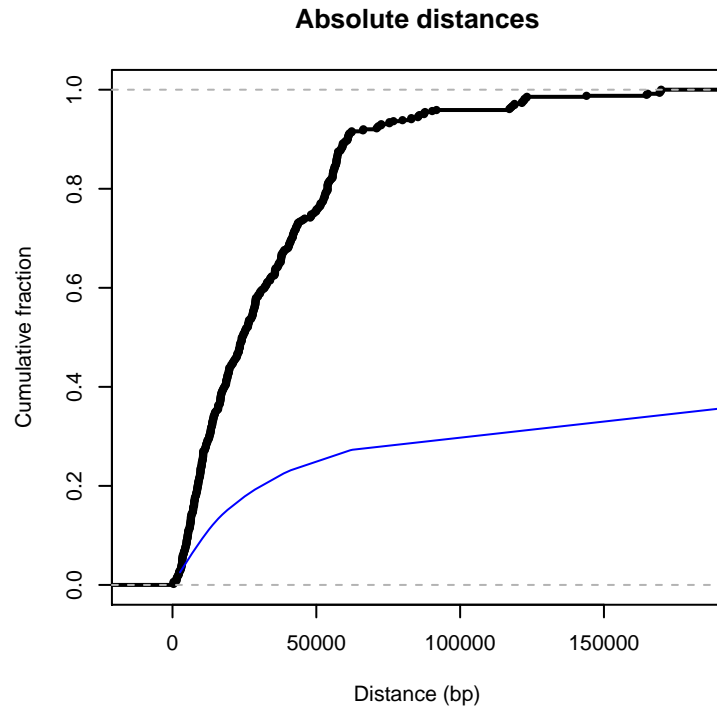
# pcontig\_035

Query population : 688  
Reference population : 17  
Relative Ks p-value : 7.91055e-08  
Relative ecdf deviation area : 0.0246984  
Relative ecdf area correlation : 0.0979907  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.43  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0611106  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.454779



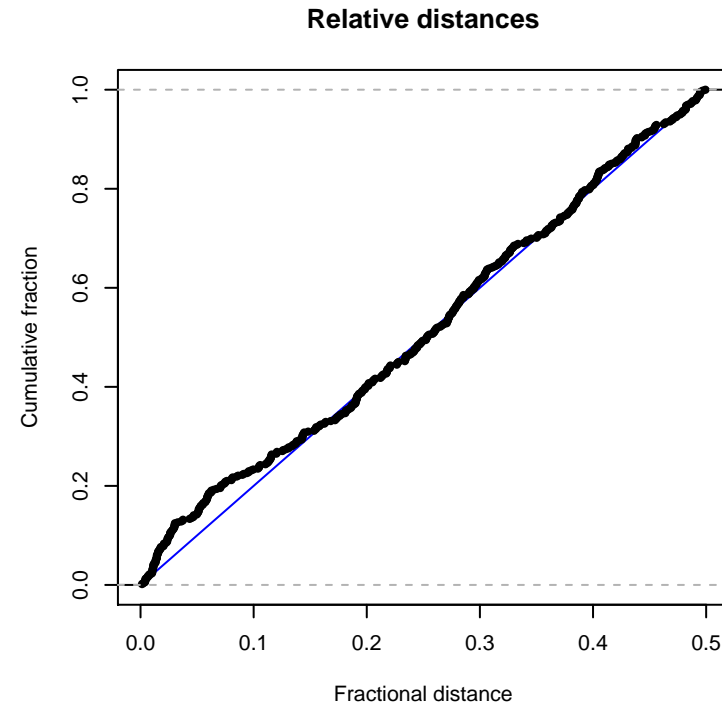
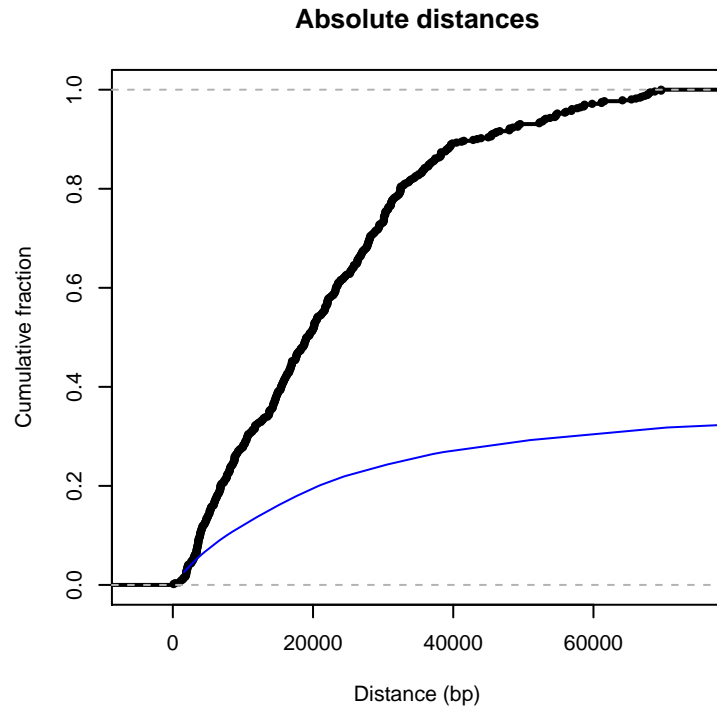
## pcontig\_036

Query population : 488  
Reference population : 15  
Relative Ks p-value : 6.47294e-10  
Relative ecdf deviation area : 0.0243776  
Relative ecdf area correlation : 0.070312  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.04  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.171247  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.519887



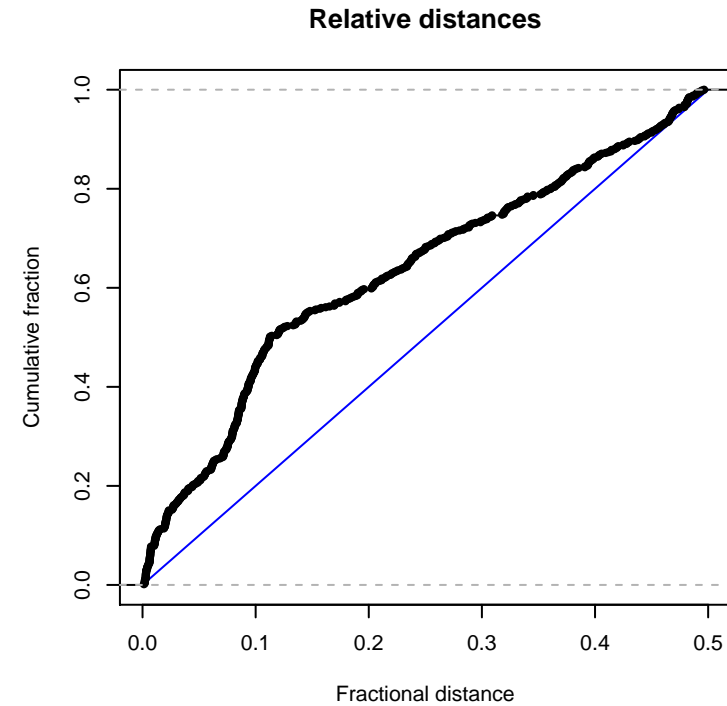
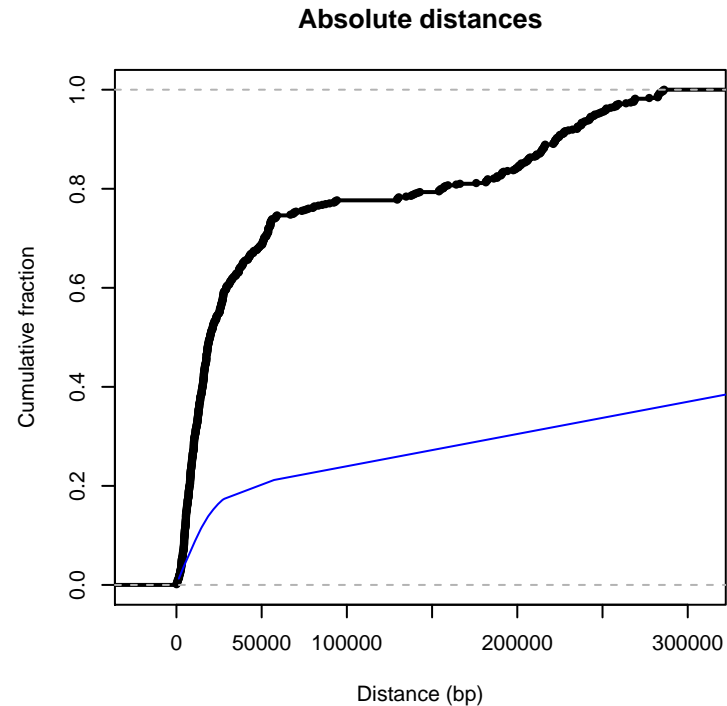
# pcontig\_037

Query population : 562  
Reference population : 25  
Relative Ks p-value : 0.016757  
Relative ecdf deviation area : 0.0084277  
Relative ecdf area correlation : 0.0255423  
Relative ecdf deviation area p-value : 0.2  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0132804  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.312544



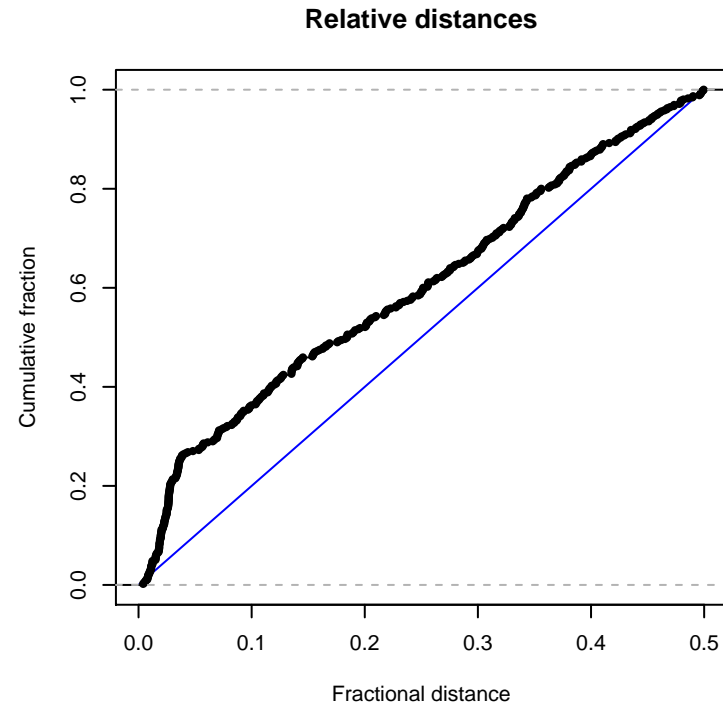
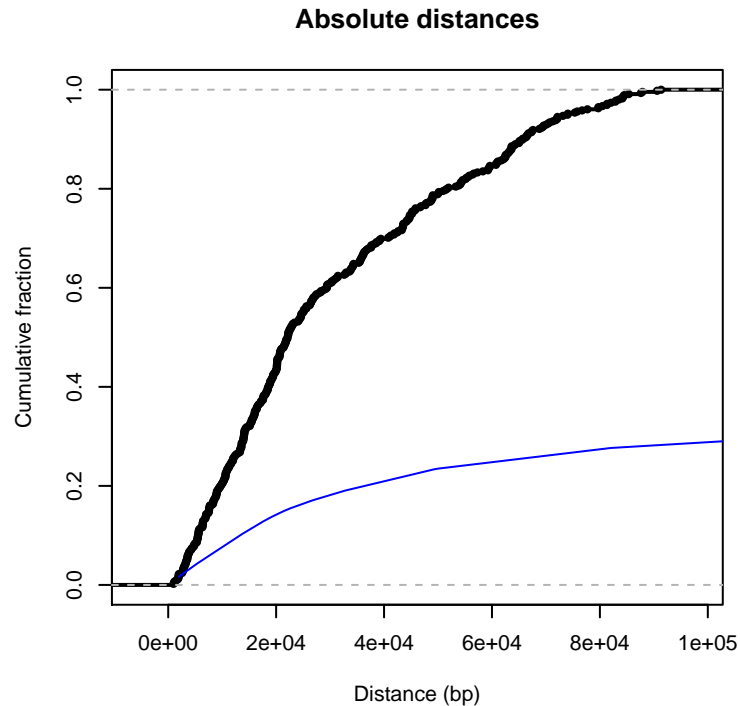
# pcontig\_039

Query population : 658  
Reference population : 14  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0646939  
Relative ecdf area correlation : 0.259245  
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 : 6.9813e-11  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.15901



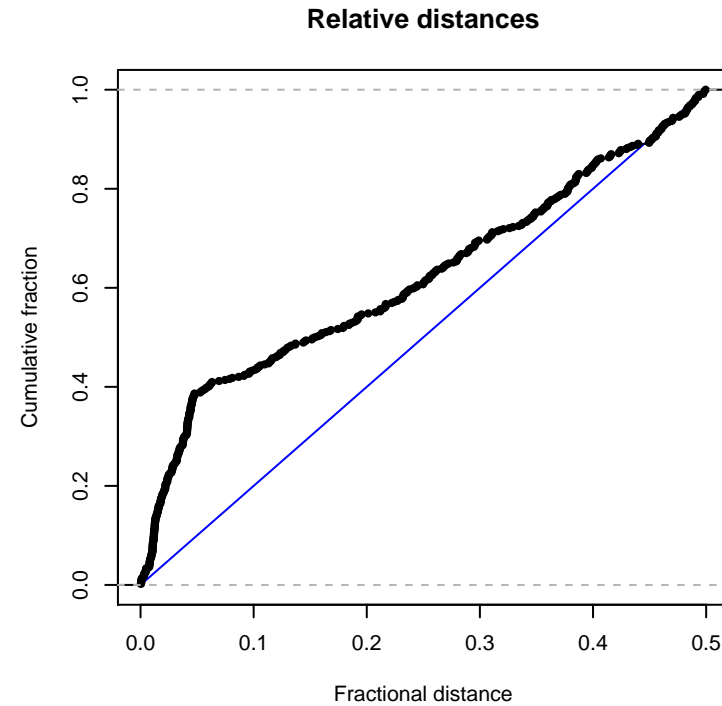
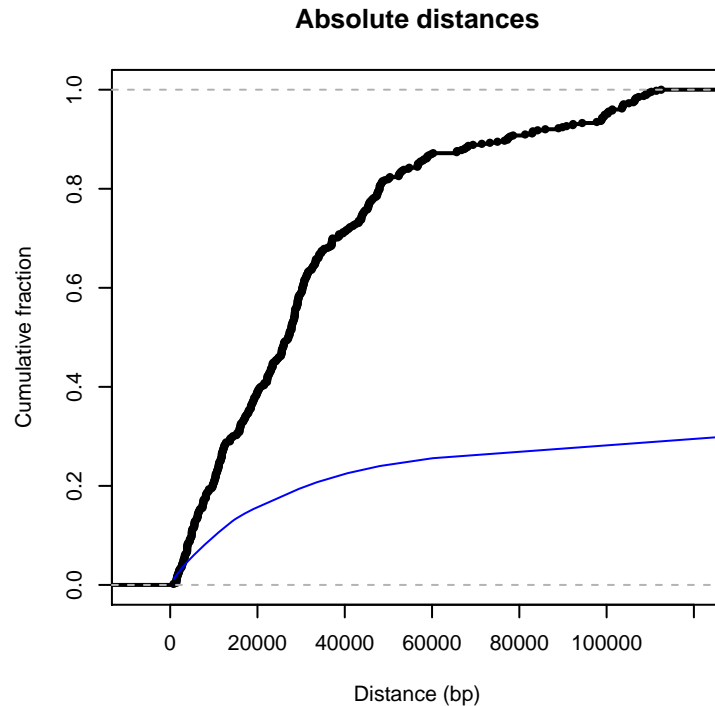
# pcontig\_040

Query population : 455  
Reference population : 13  
Relative Ks p-value : 6.66134e-14  
Relative ecdf deviation area : 0.0487975  
Relative ecdf area correlation : 0.194887  
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 : 0.33  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.027177  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_041

Query population : 476  
Reference population : 22  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0583928  
Relative ecdf area correlation : 0.232479  
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 : 0.000534744  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

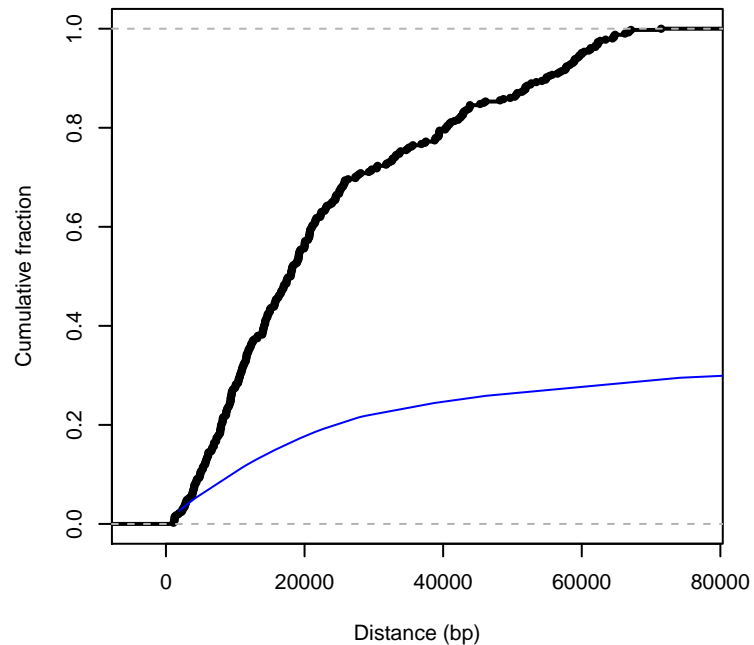




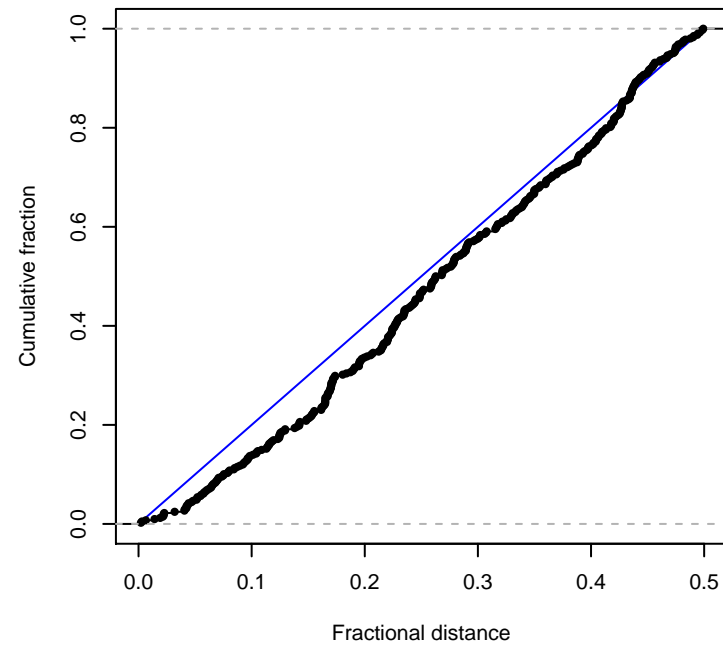
# pcontig\_042

Query population : 408  
Reference population : 21  
Relative Ks p-value : 0.00128455  
Relative ecdf deviation area : 0.0208514  
Relative ecdf area correlation : -0.0790829  
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 : 0.0021108  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

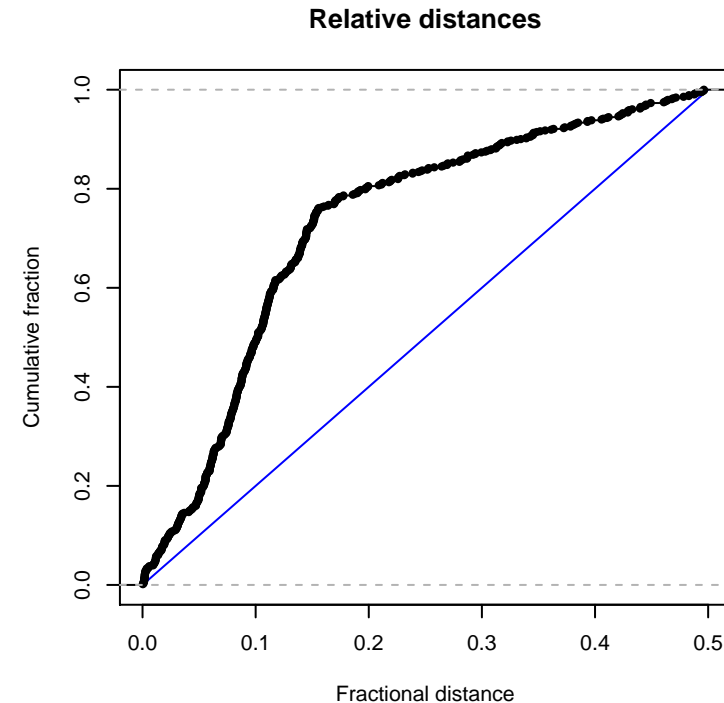
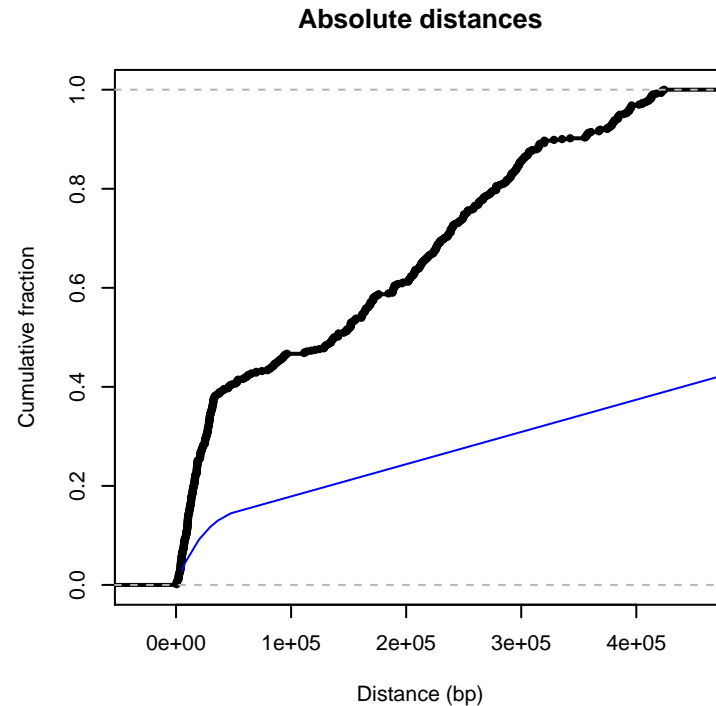


Relative distances



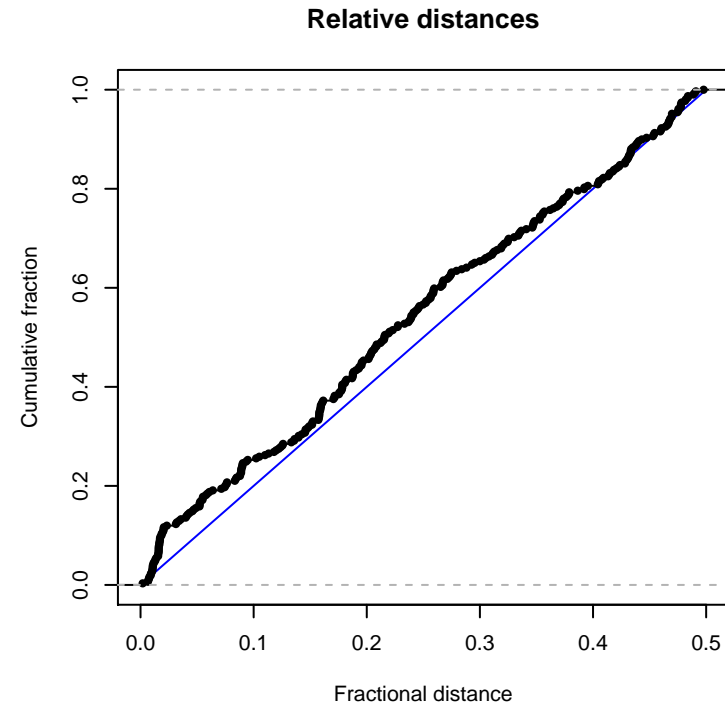
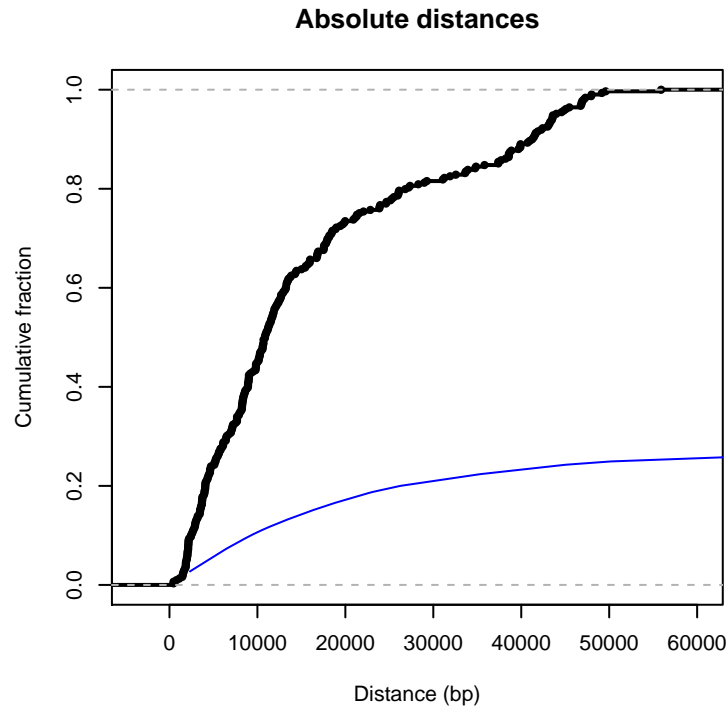
# pcontig\_043

Query population : 632  
Reference population : 9  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.112814  
Relative ecdf area correlation : 0.45138  
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 : 0.330512  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.705451



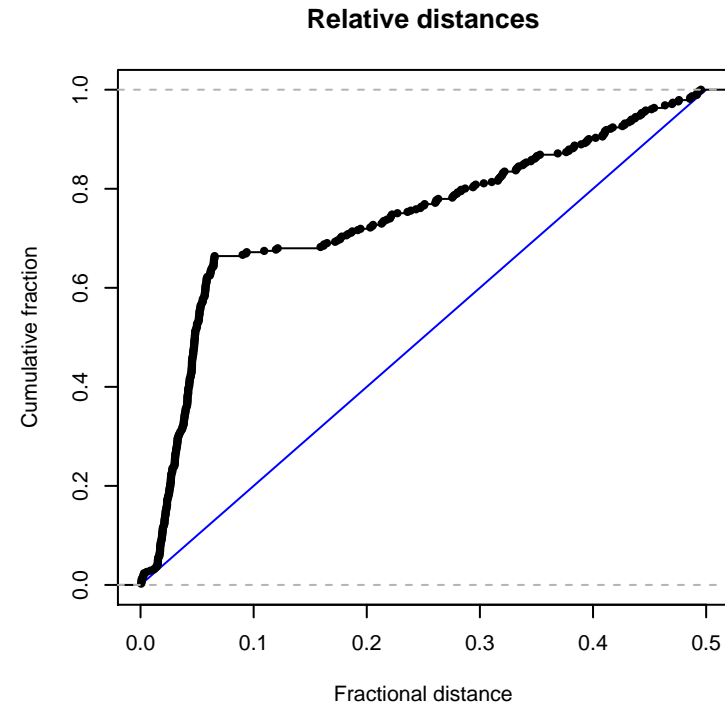
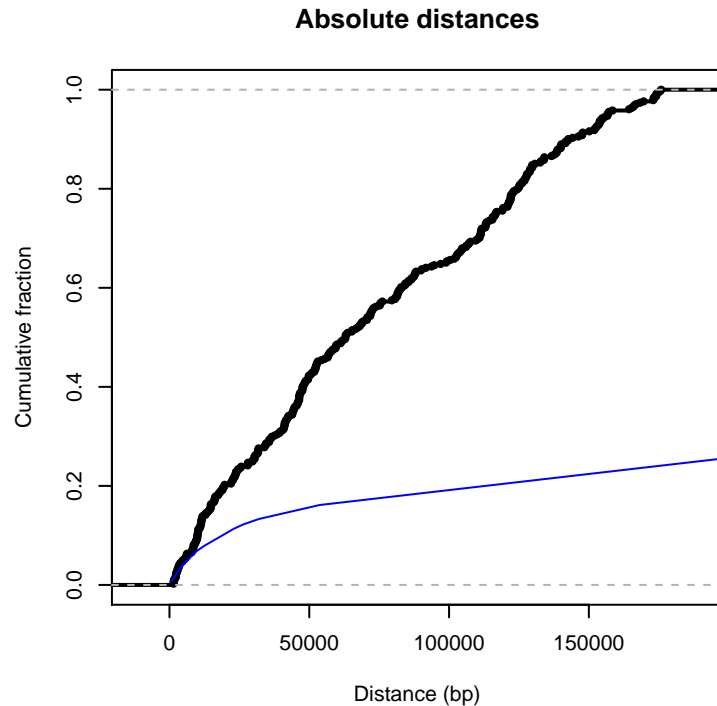
# pcontig\_044

Query population : 309  
Reference population : 18  
Relative Ks p-value : 0.0348195  
Relative ecdf deviation area : 0.0193946  
Relative ecdf area correlation : 0.0750992  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.3  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.260774  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.520918



# pcontig\_045

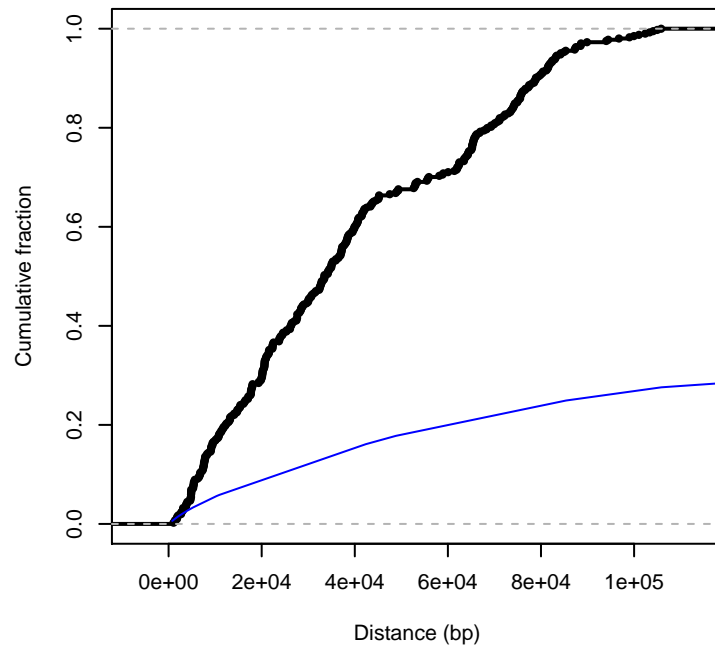
Query population : 381  
Reference population : 15  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.11818  
Relative ecdf area correlation : 0.472569  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0212185  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



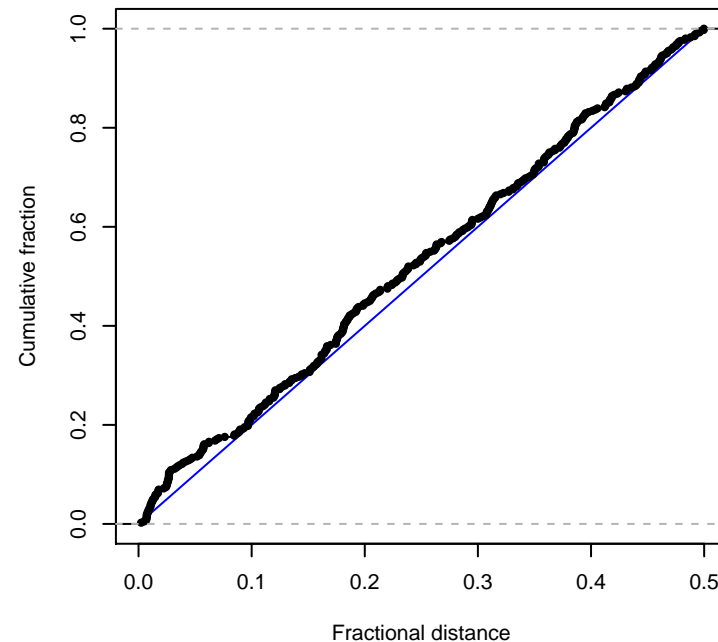
# pcontig\_046

Query population : 404  
Reference population : 12  
Relative Ks p-value : 0.233385  
Relative ecdf deviation area : 0.0109849  
Relative ecdf area correlation : 0.0446188  
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 : TRUE  
Projection test p-value : 0.0167974  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



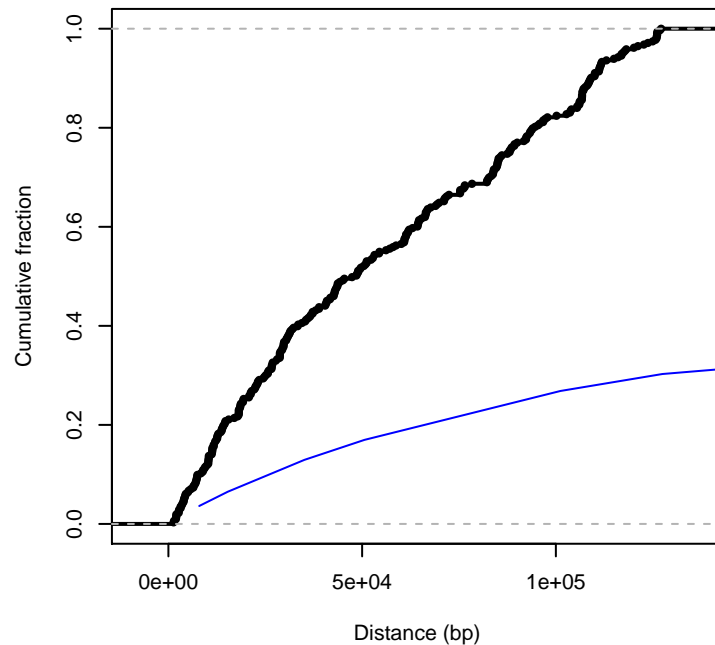
Relative distances



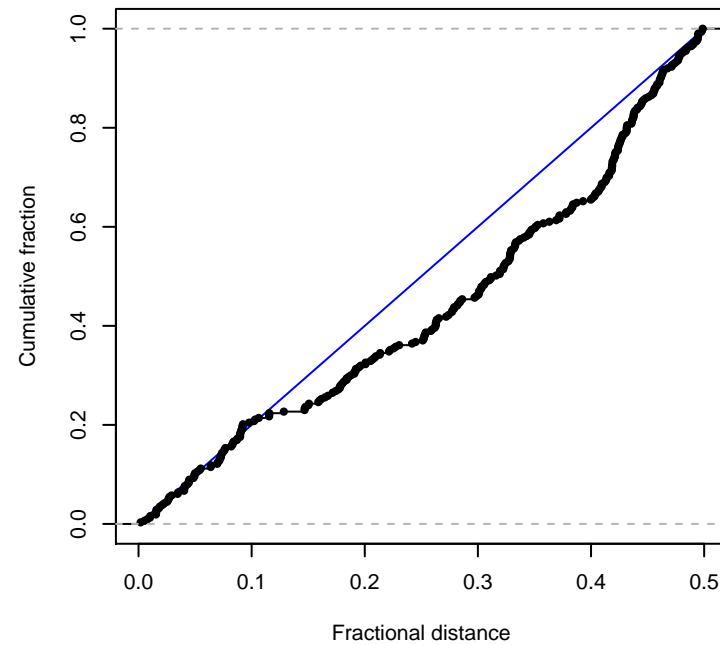
# pcontig\_047

Query population : 313  
Reference population : 7  
Relative Ks p-value : 2.24211e-06  
Relative ecdf deviation area : 0.0345767  
Relative ecdf area correlation : -0.138792  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.09  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.320034  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

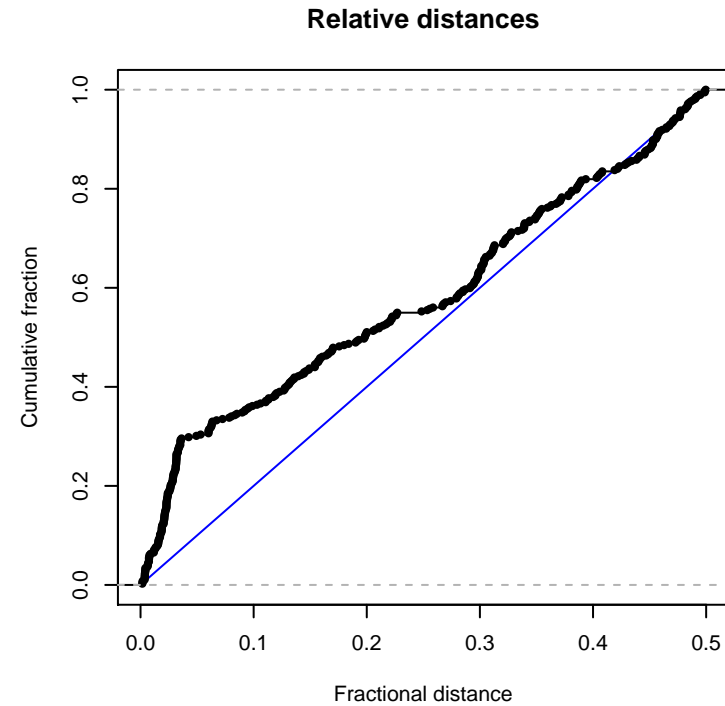
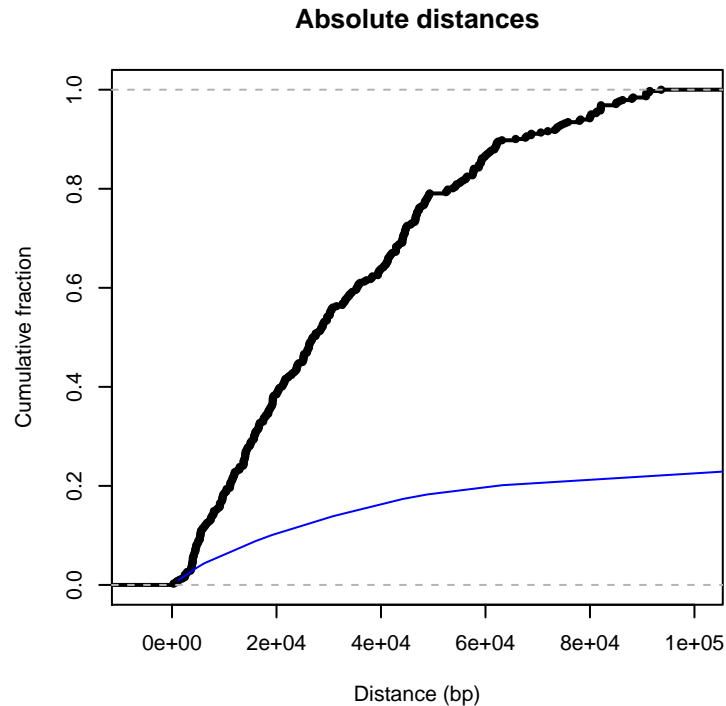


Relative distances



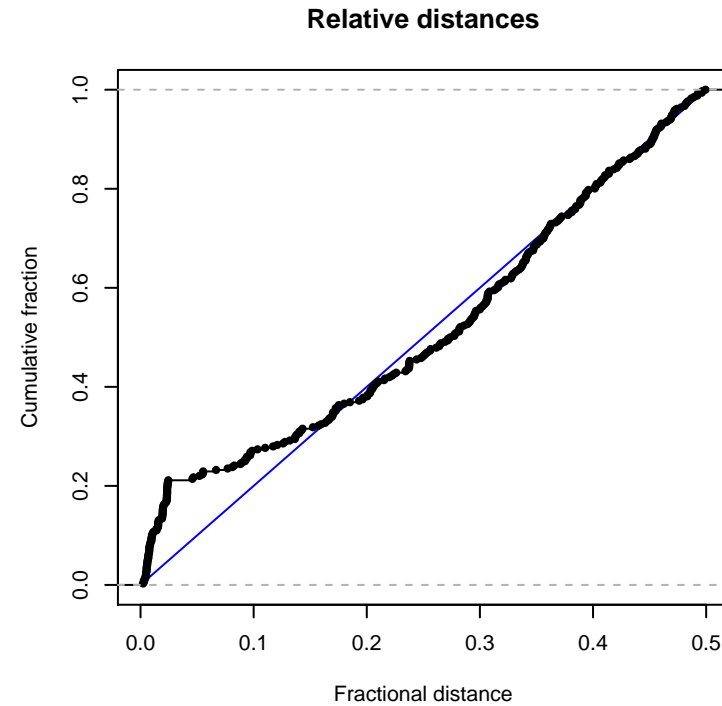
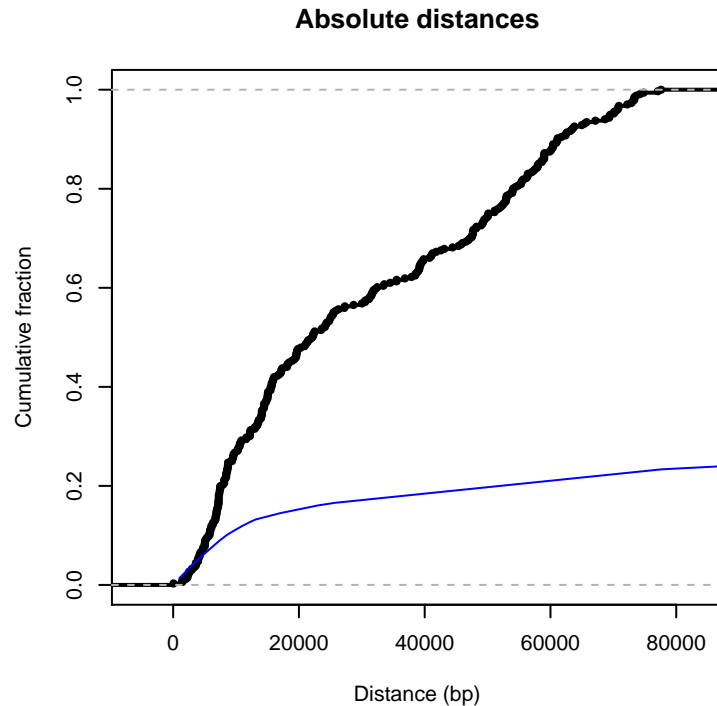
# pcontig\_048

Query population : 382  
Reference population : 12  
Relative Ks p-value : 1.11022e-16  
Relative ecdf deviation area : 0.0396385  
Relative ecdf area correlation : 0.152609  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.07  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.487386  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.734494



# pcontig\_049

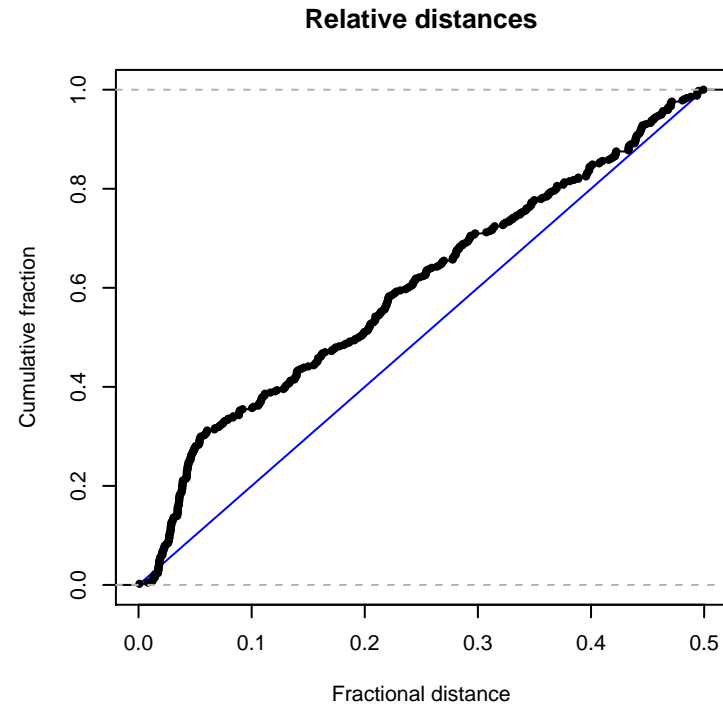
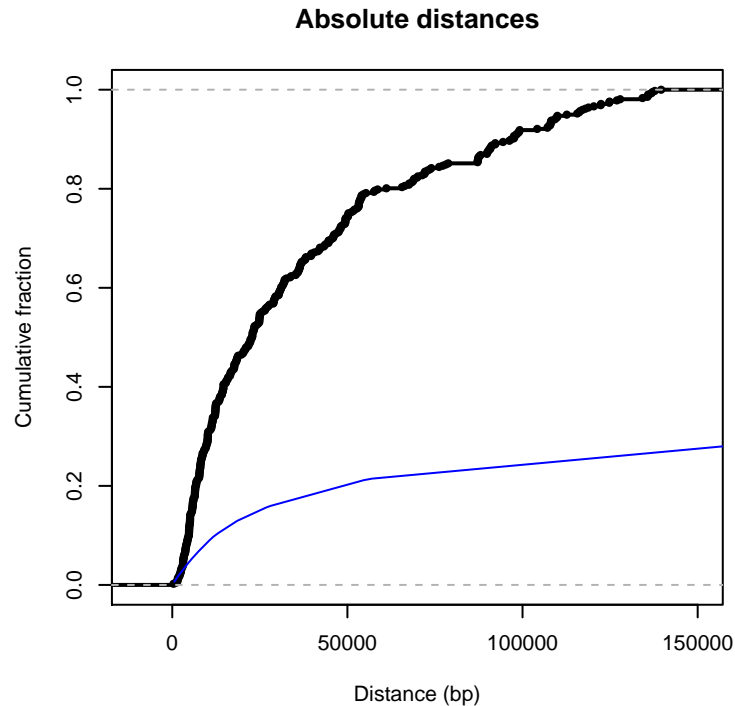
Query population : 336  
Reference population : 21  
Relative Ks p-value : 4.27247e-08  
Relative ecdf deviation area : 0.018055  
Relative ecdf area correlation : 0.0247224  
Relative ecdf deviation area p-value : 0.02  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0978176  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.449166





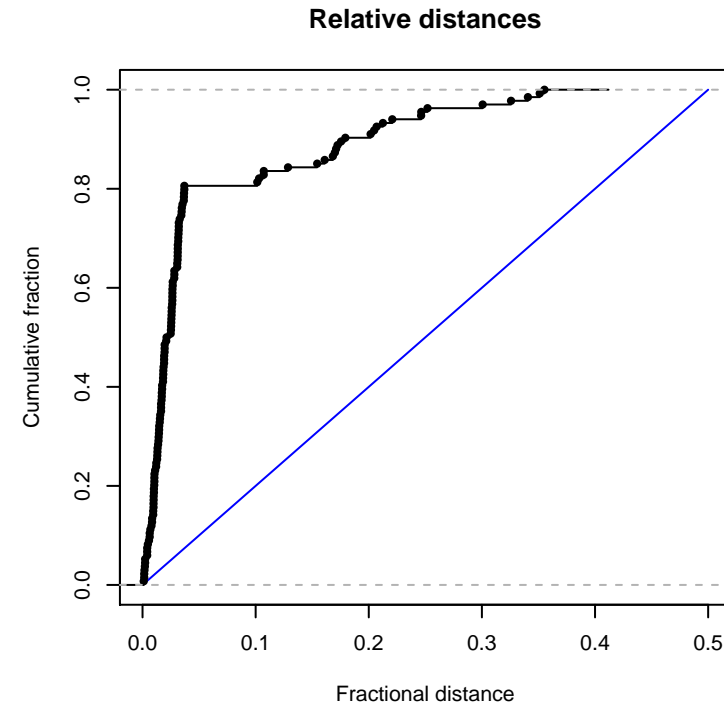
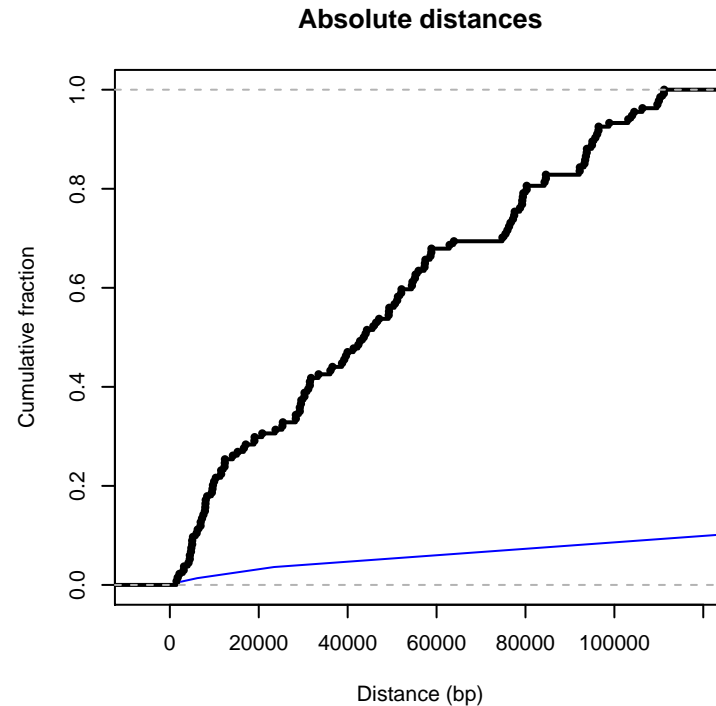
# pcontig\_050

Query population : 417  
Reference population : 17  
Relative Ks p-value : 1.48992e-13  
Relative ecdf deviation area : 0.0463891  
Relative ecdf area correlation : 0.184752  
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 : 0.0181132  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.169072



# pcontig\_051

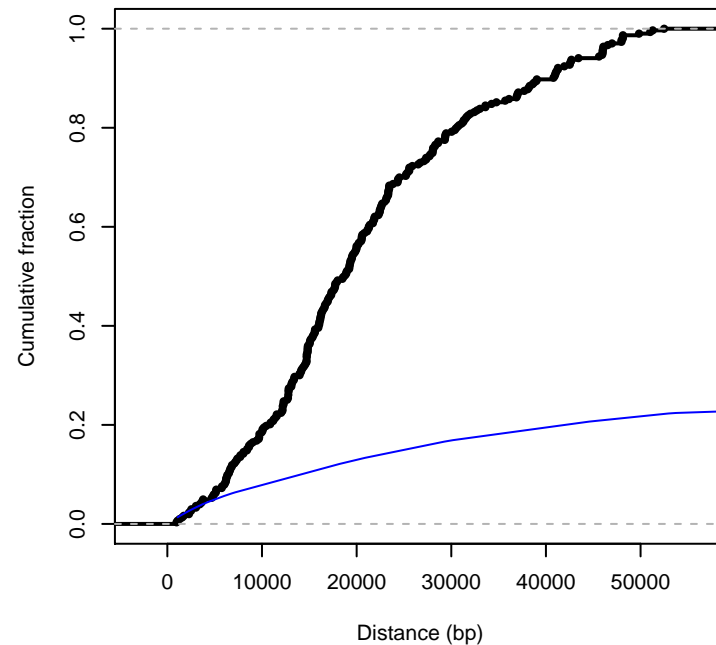
Query population : 134  
Reference population : 4  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.194751  
Relative ecdf area correlation : 0.779011  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.49  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.366791  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



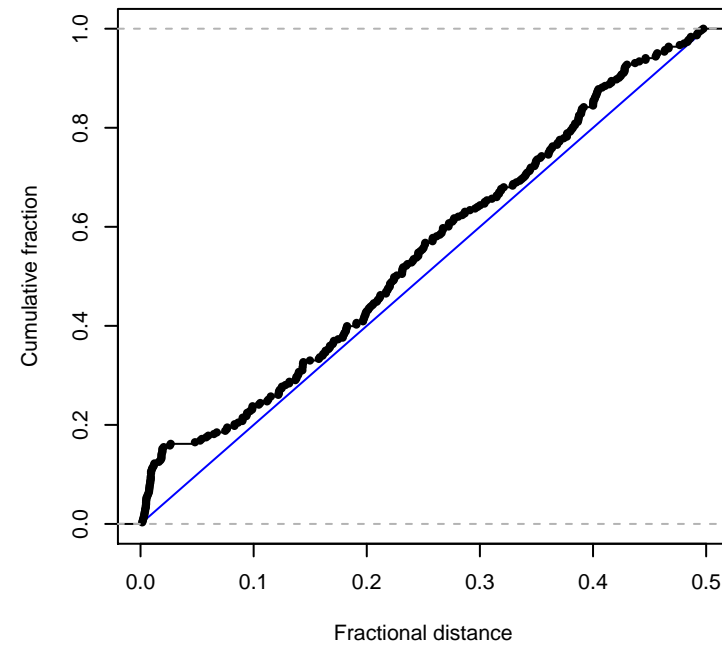
# pcontig\_052

Query population : 303  
Reference population : 19  
Relative Ks p-value : 0.00074236  
Relative ecdf deviation area : 0.0203913  
Relative ecdf area correlation : 0.0807589  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.11  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.246893  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.586553

Absolute distances

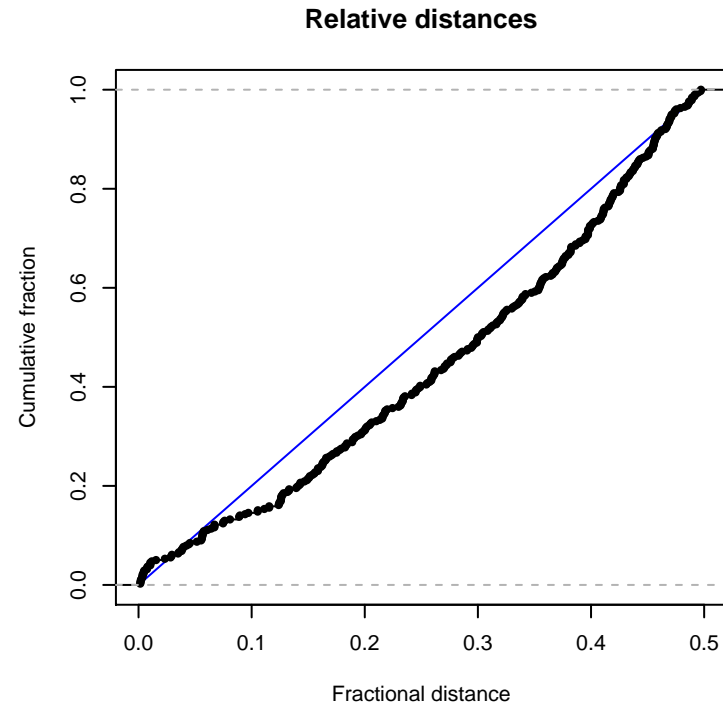
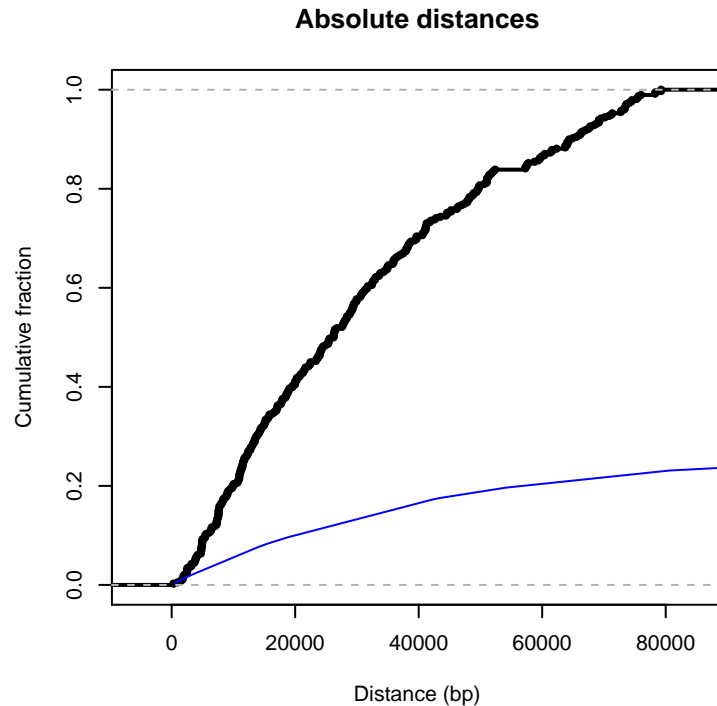


Relative distances



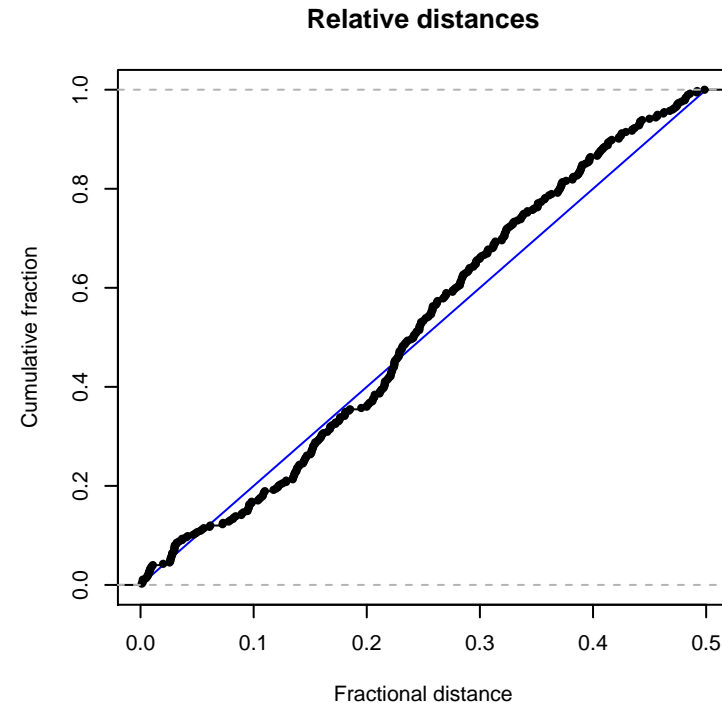
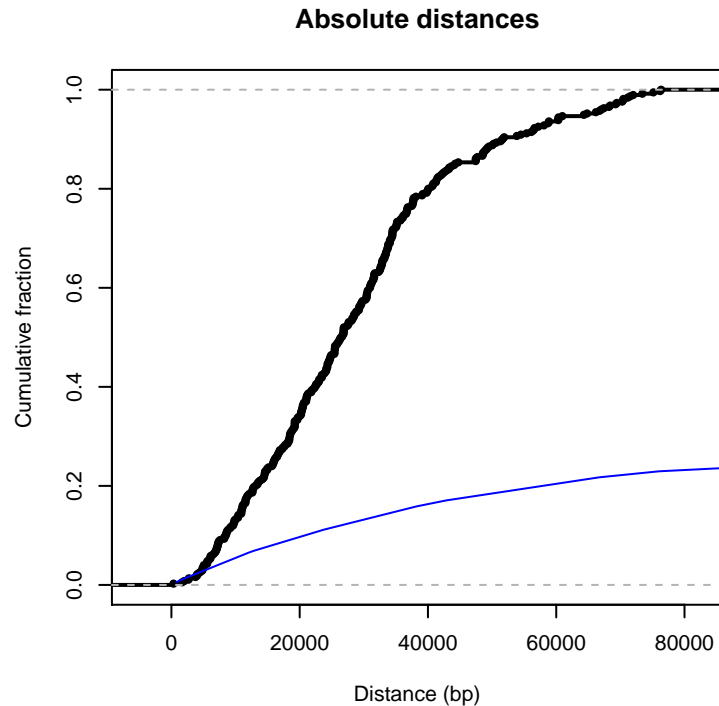
# pcontig\_054

Query population : 378  
Reference population : 12  
Relative Ks p-value : 0.000104875  
Relative ecdf deviation area : 0.0328427  
Relative ecdf area correlation : -0.127584  
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 : 0.289639  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.40262



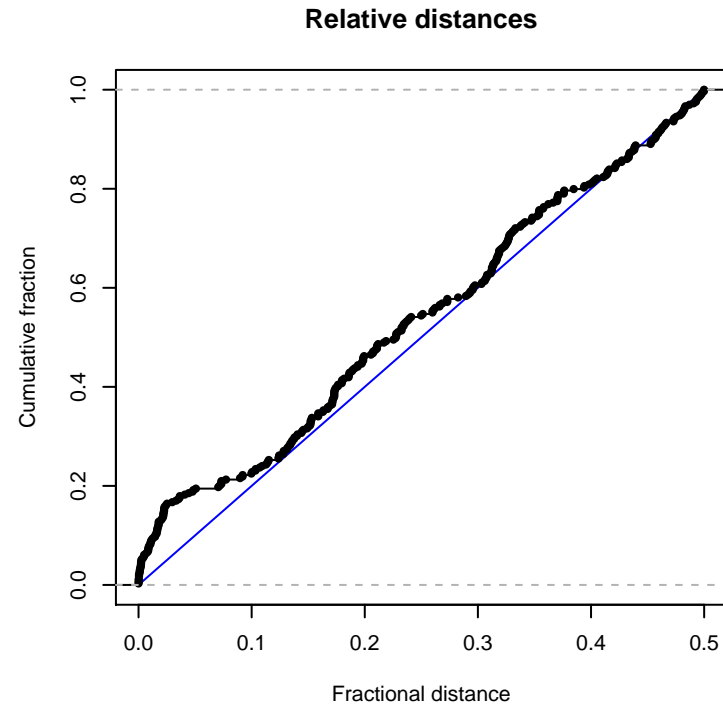
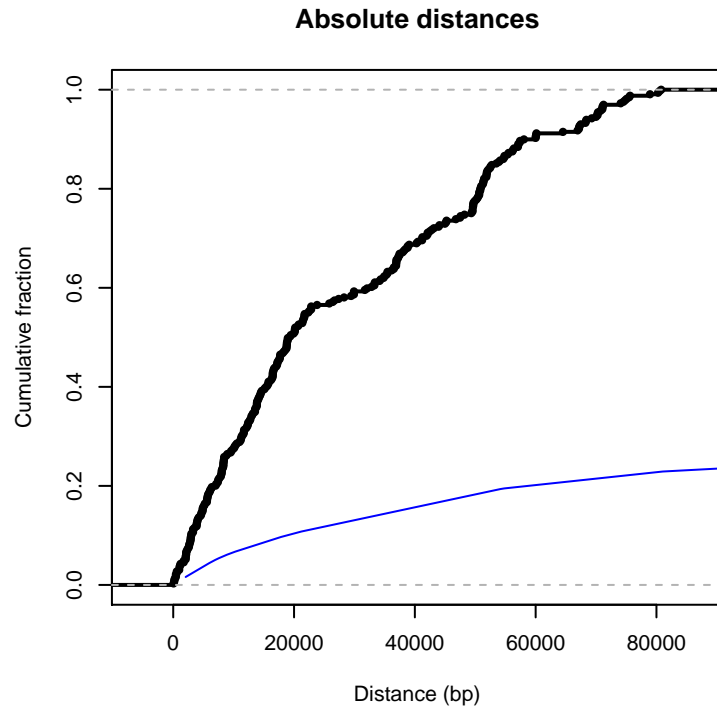
# pcontig\_055

Query population : 375  
Reference population : 11  
Relative Ks p-value : 0.0374299  
Relative ecdf deviation area : 0.0182988  
Relative ecdf area correlation : 0.0320666  
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 : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.397381  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.642491



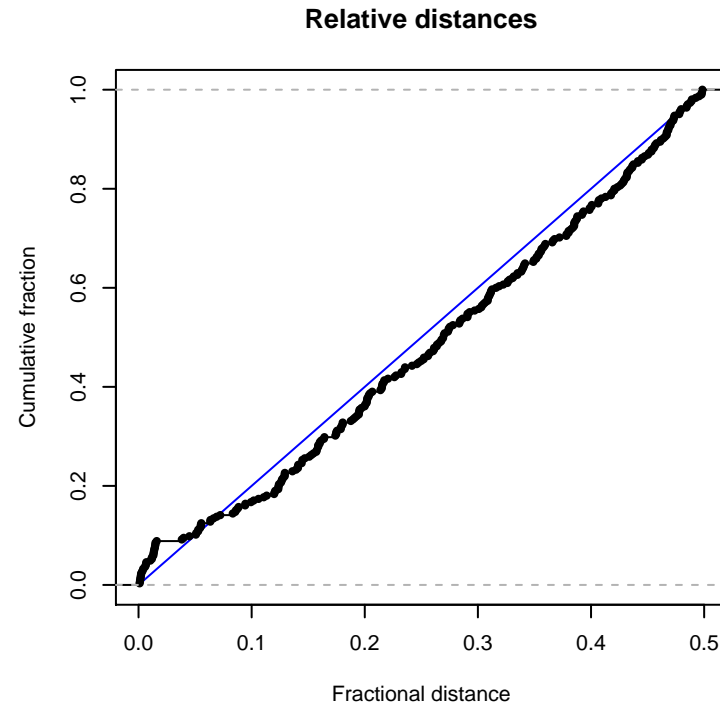
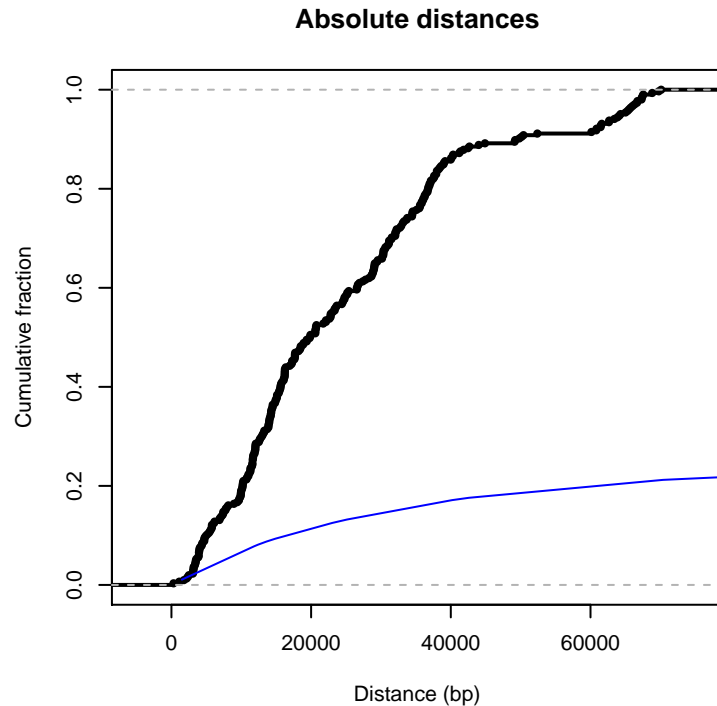
# pcontig\_056

Query population : 329  
Reference population : 12  
Relative Ks p-value : 0.000408218  
Relative ecdf deviation area : 0.0168803  
Relative ecdf area correlation : 0.0654714  
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 : 6.41749



# pcontig\_057

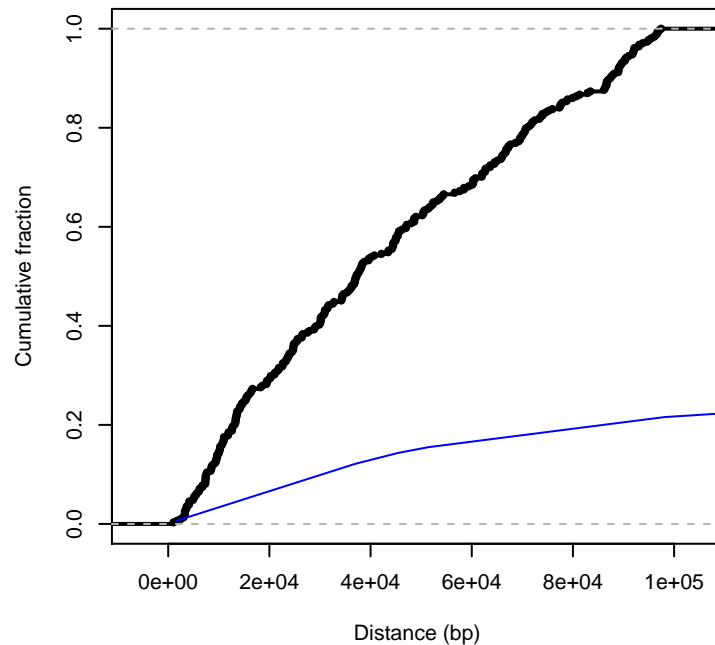
Query population : 305  
Reference population : 11  
Relative Ks p-value : 0.232692  
Relative ecdf deviation area : 0.016704  
Relative ecdf area correlation : -0.0561528  
Relative ecdf deviation area p-value : 0.07  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.2  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.205654  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.33926



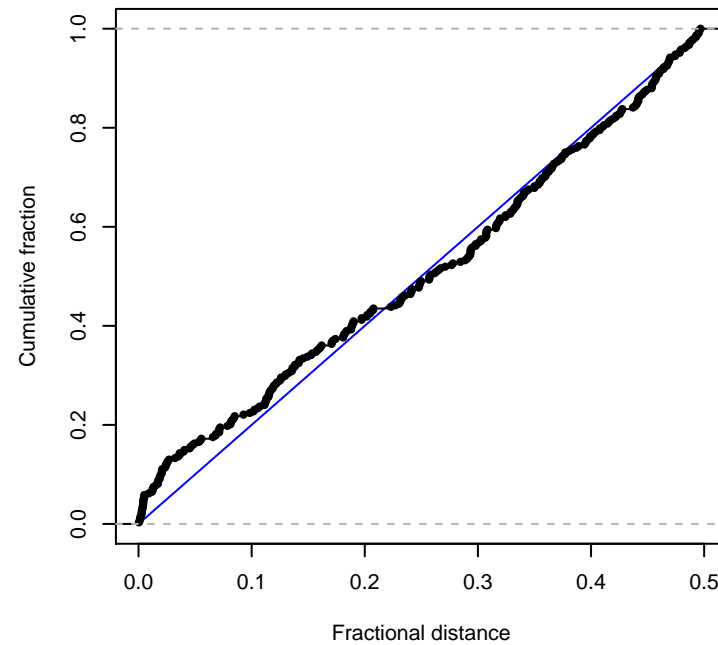
# pcontig\_058

Query population : 308  
Reference population : 6  
Relative Ks p-value : 0.0572679  
Relative ecdf deviation area : 0.0135124  
Relative ecdf area correlation : 0.0102076  
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 : 0.27  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.267735  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



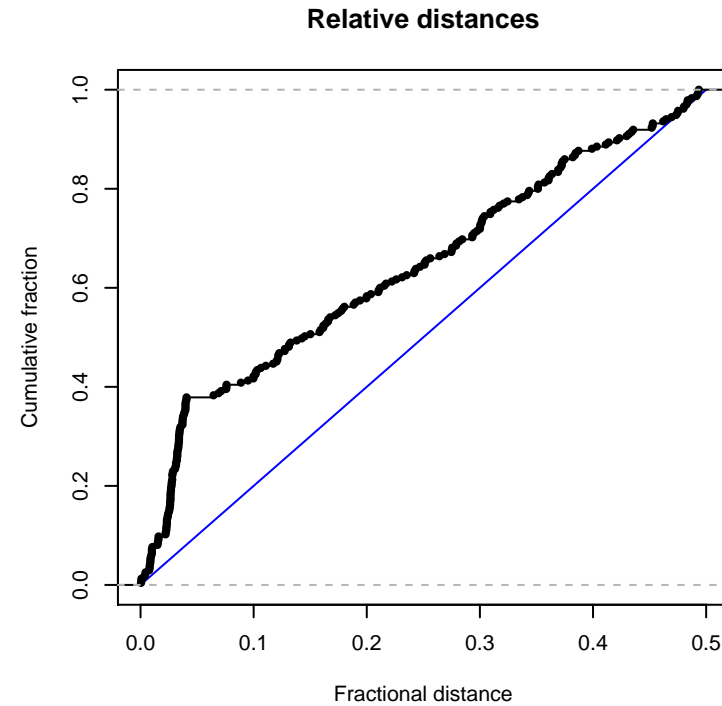
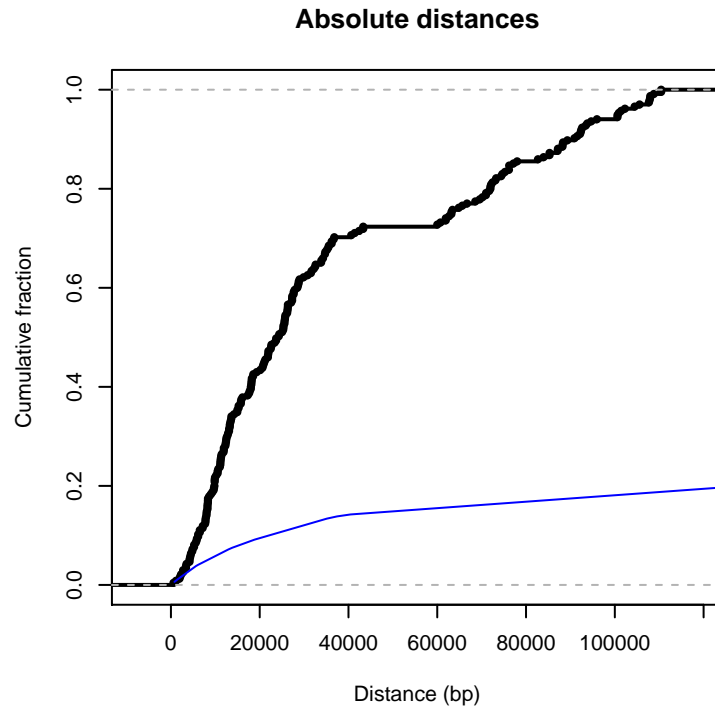
Relative distances





# pcontig\_059

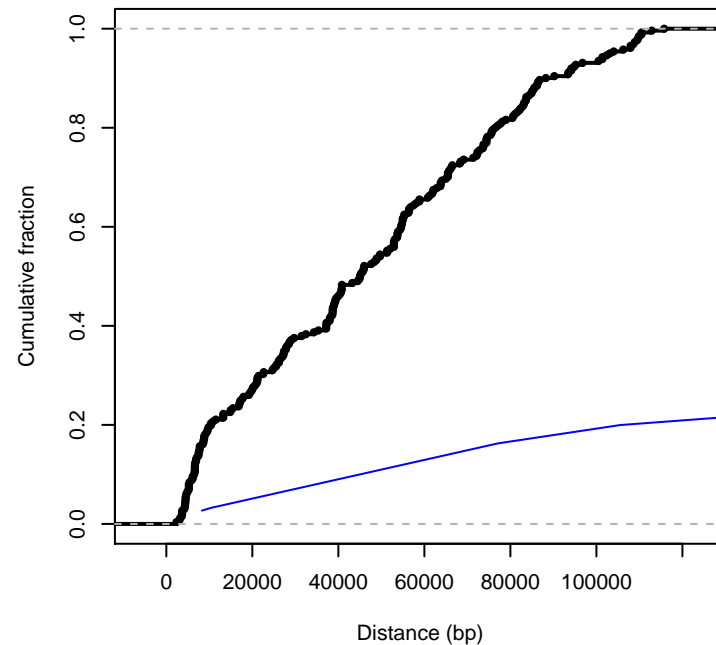
Query population : 235  
Reference population : 12  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0680438  
Relative ecdf area correlation : 0.271813  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.21  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.338782  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.442506



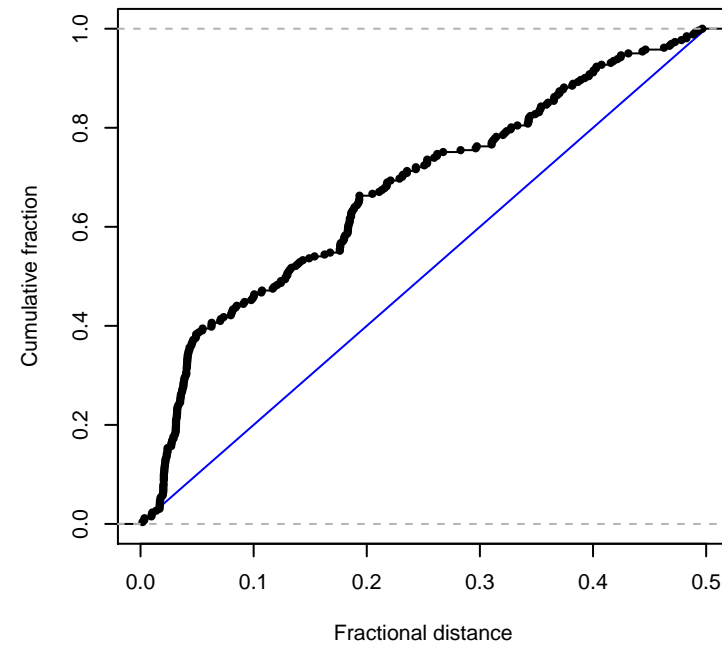
# pcontig\_060

Query population : 261  
Reference population : 5  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0836585  
Relative ecdf area correlation : 0.333832  
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 : 0.18  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.28552  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



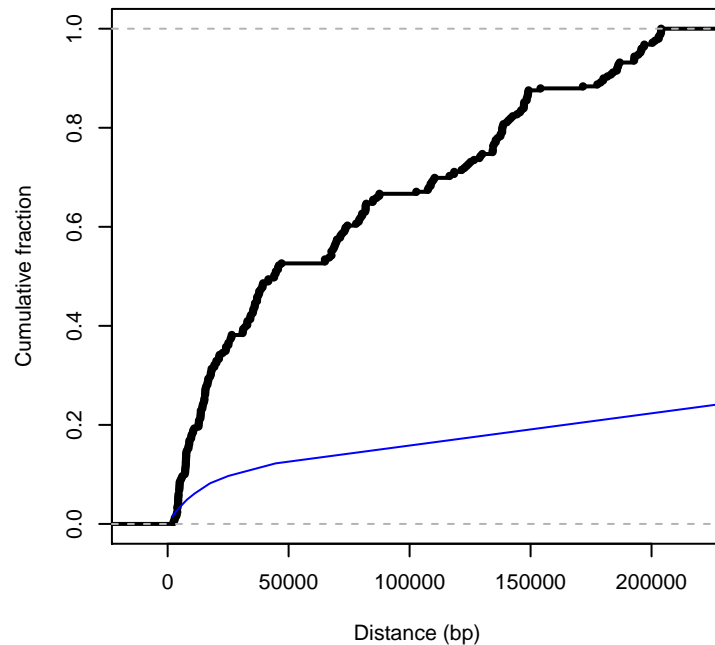
Relative distances



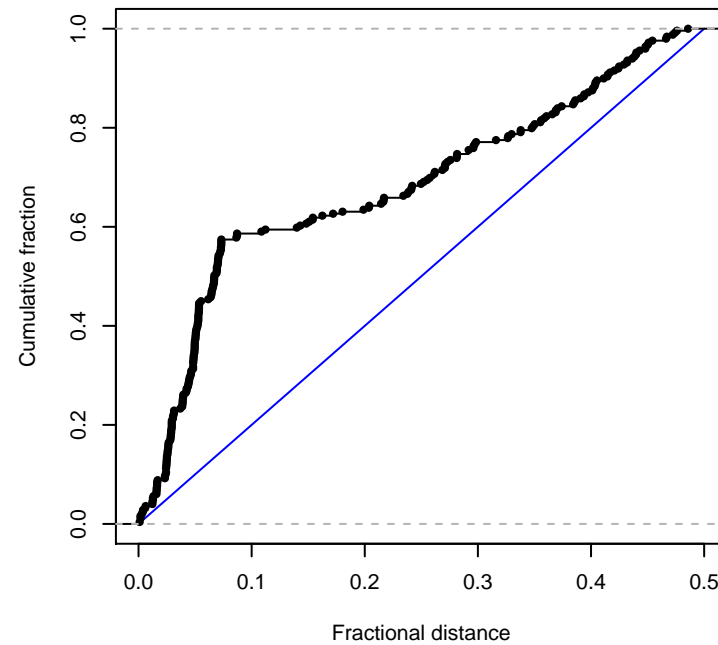
# pcontig\_062

Query population : 249  
Reference population : 12  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0904465  
Relative ecdf area correlation : 0.361852  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.064913  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



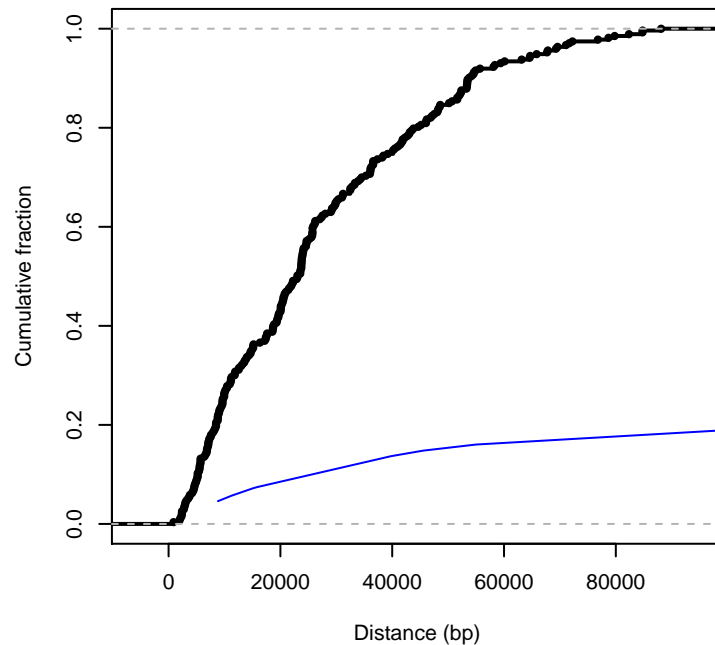
Relative distances



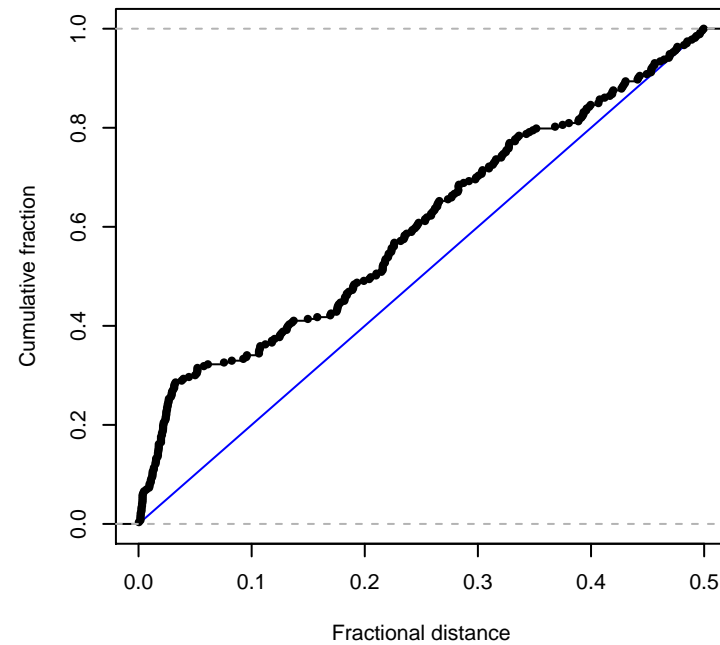
# pcontig\_064

Query population : 273  
Reference population : 8  
Relative Ks p-value : 6.33993e-12  
Relative ecdf deviation area : 0.0470665  
Relative ecdf area correlation : 0.188168  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.36  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.217397  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



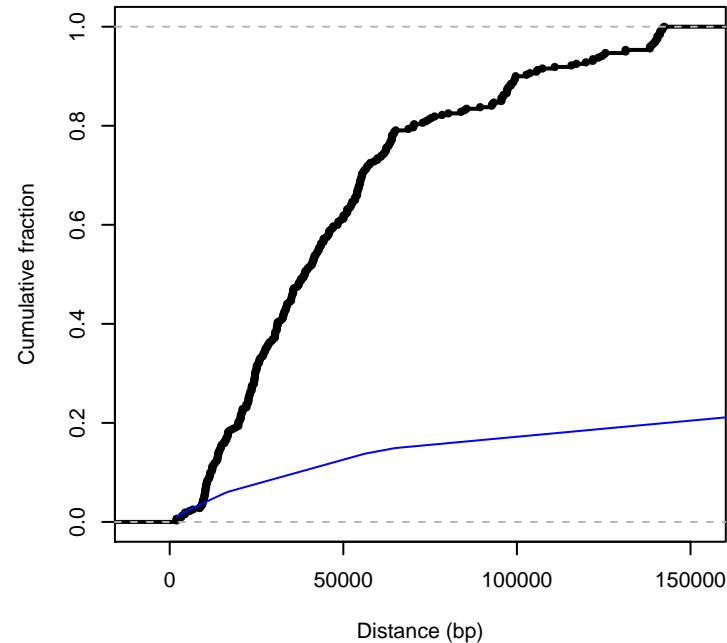
Relative distances



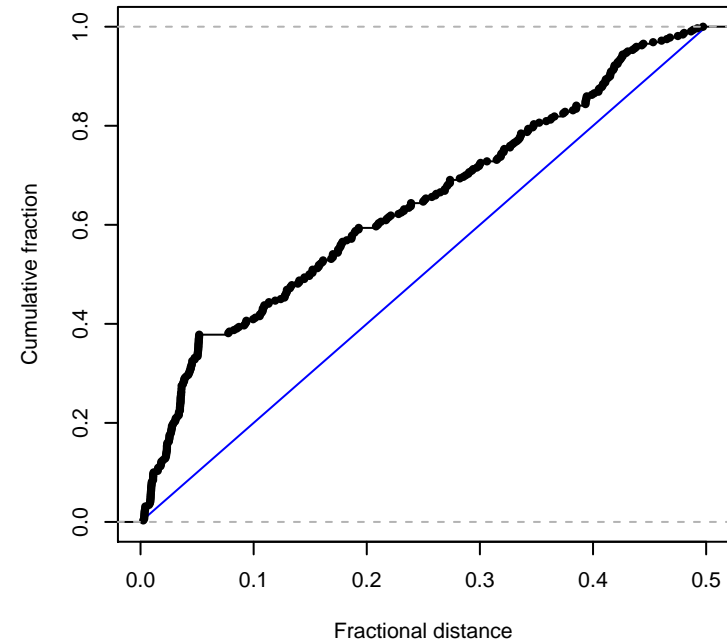
# pcontig\_065

Query population : 320  
Reference population : 8  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0676407  
Relative ecdf area correlation : 0.270081  
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 : 0.06  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0999659  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

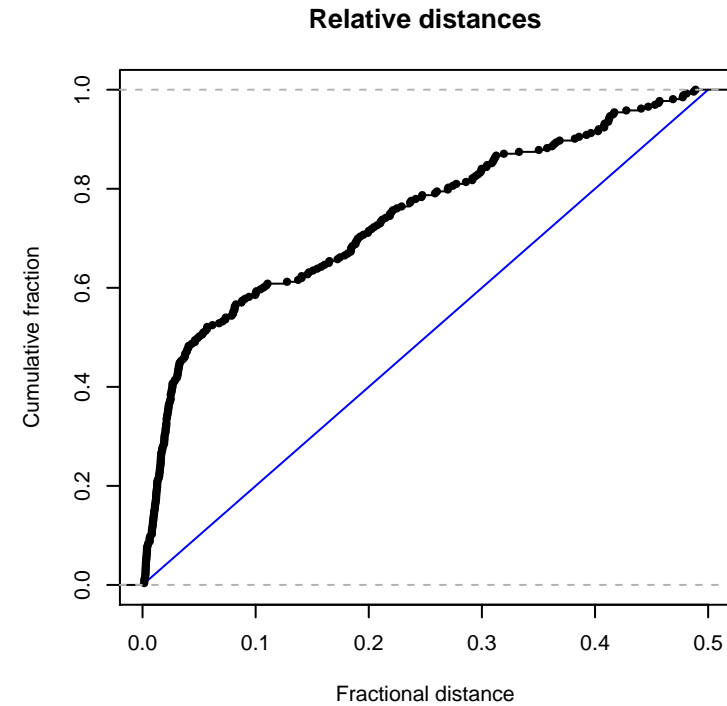
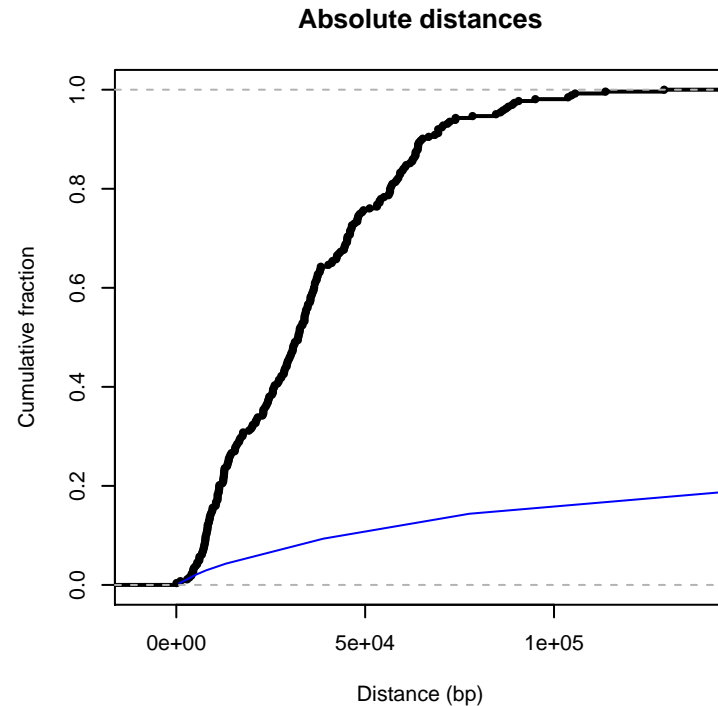


Relative distances



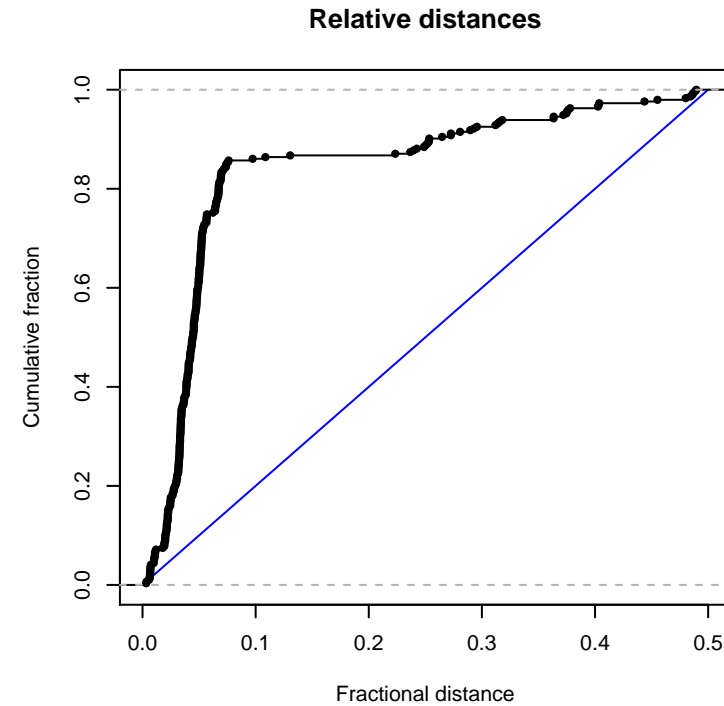
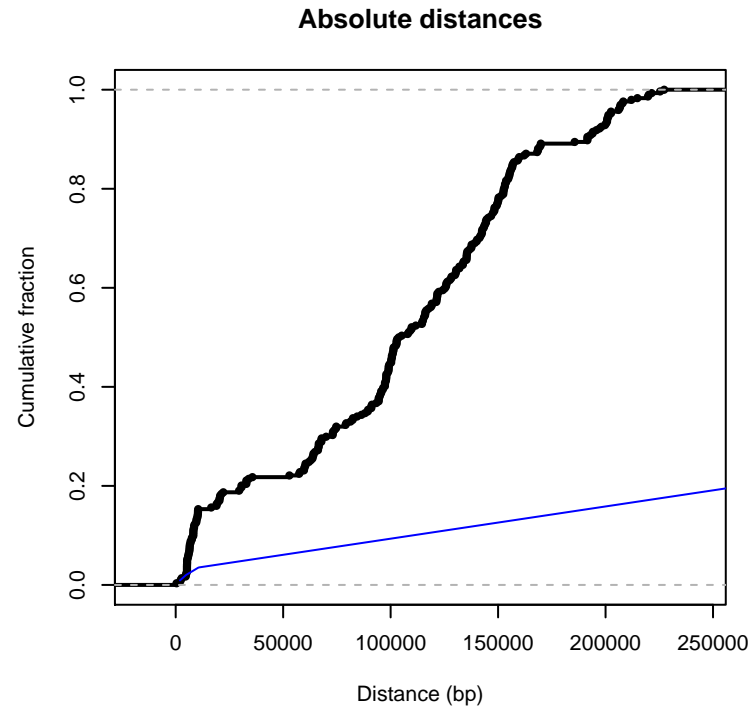
# pcontig\_066

Query population : 263  
Reference population : 7  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.119958  
Relative ecdf area correlation : 0.478938  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.36  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.48809  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.583322



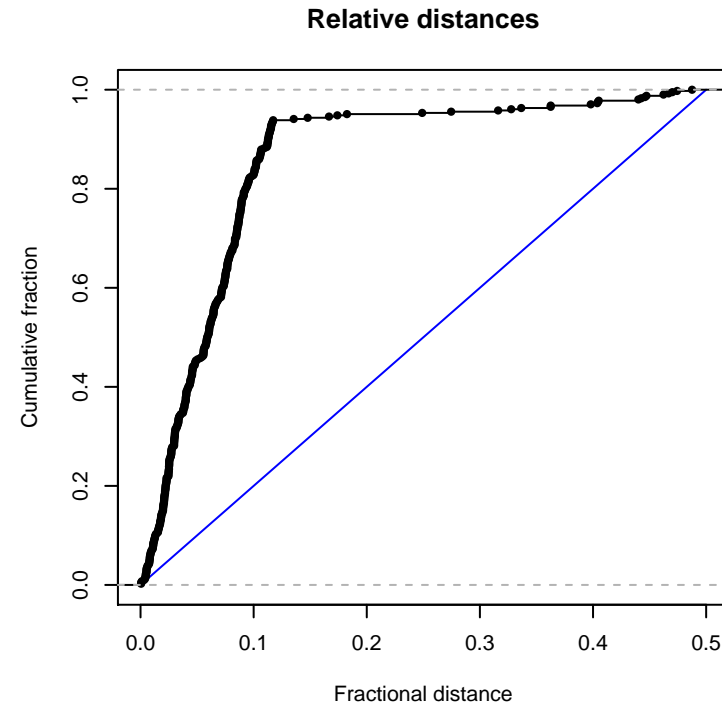
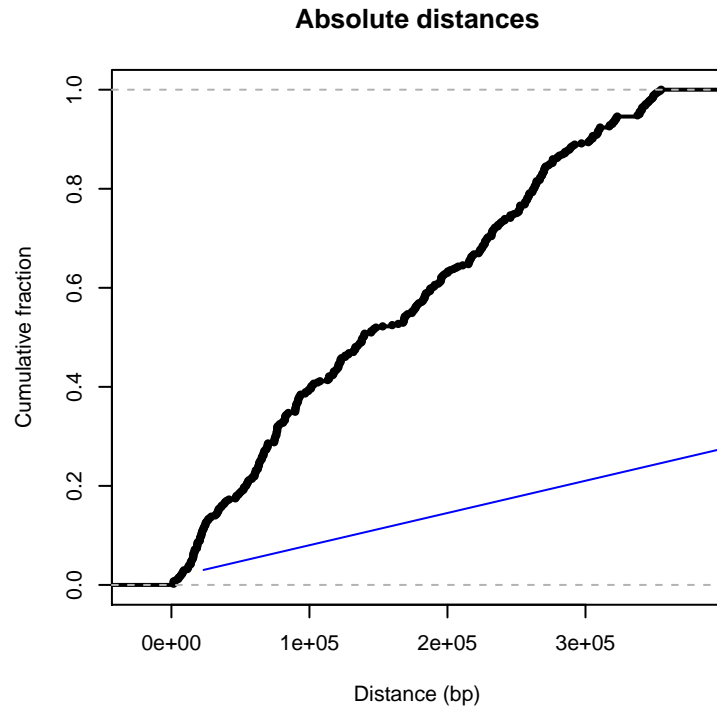
# pcontig\_067

Query population : 294  
Reference population : 7  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.16939  
Relative ecdf area correlation : 0.677357  
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 : 0.29  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.49687  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.600066



## pcontig\_068

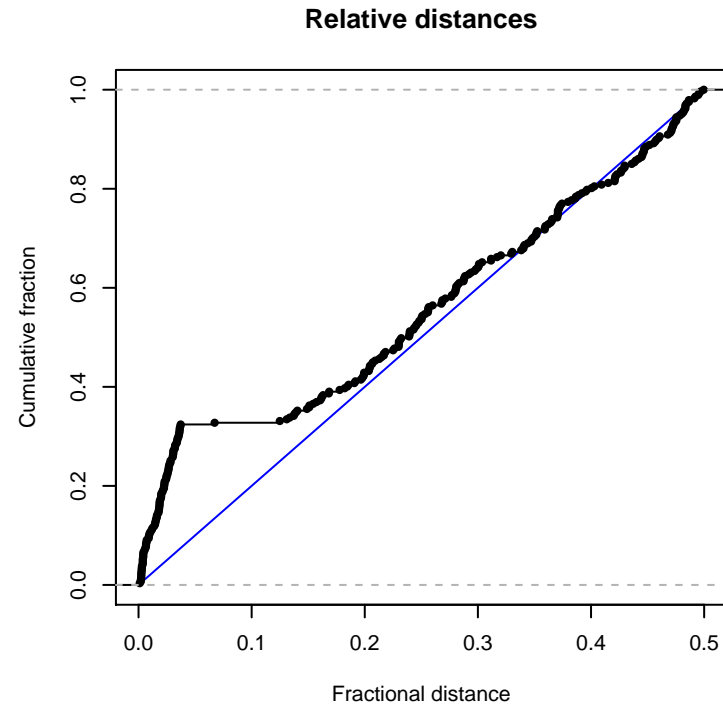
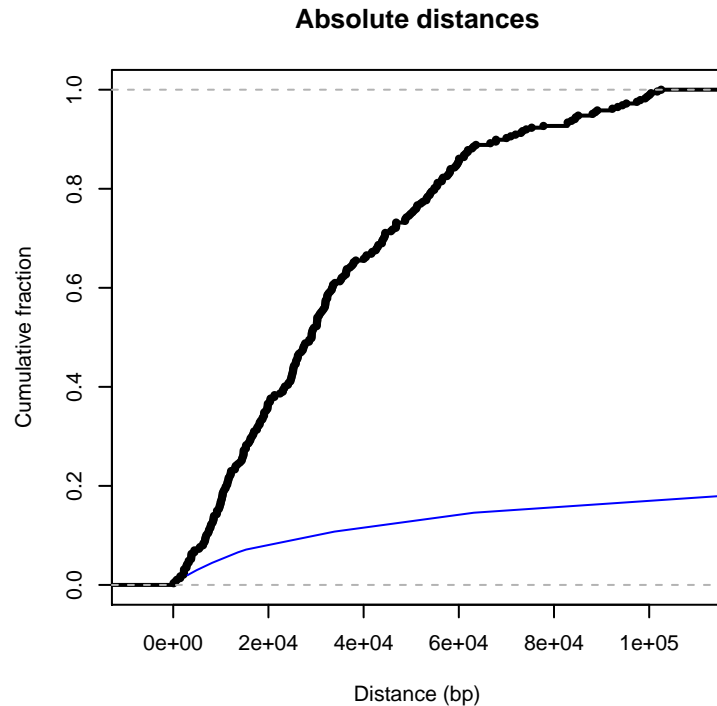
Query population : 406  
Reference population : 2  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.176458  
Relative ecdf area correlation : 0.7059  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.38  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.31959  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





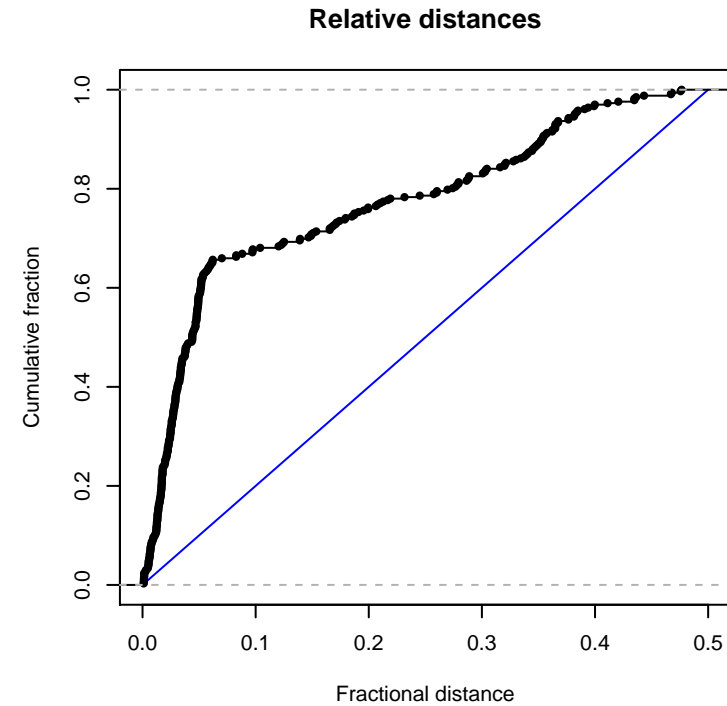
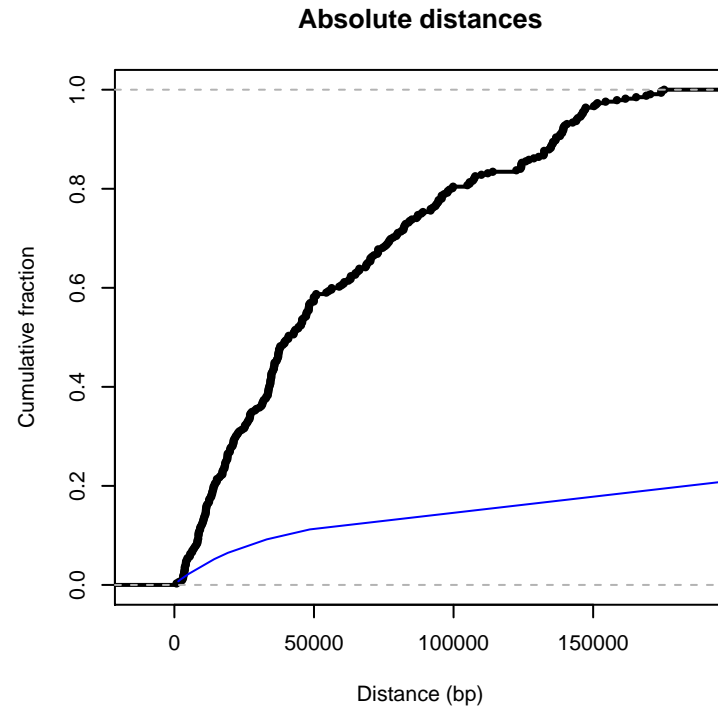
# pcontig\_069

Query population : 287  
Reference population : 10  
Relative Ks p-value : 5.55112e-16  
Relative ecdf deviation area : 0.0290745  
Relative ecdf area correlation : 0.103383  
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 : 0.34  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.261139  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.13001



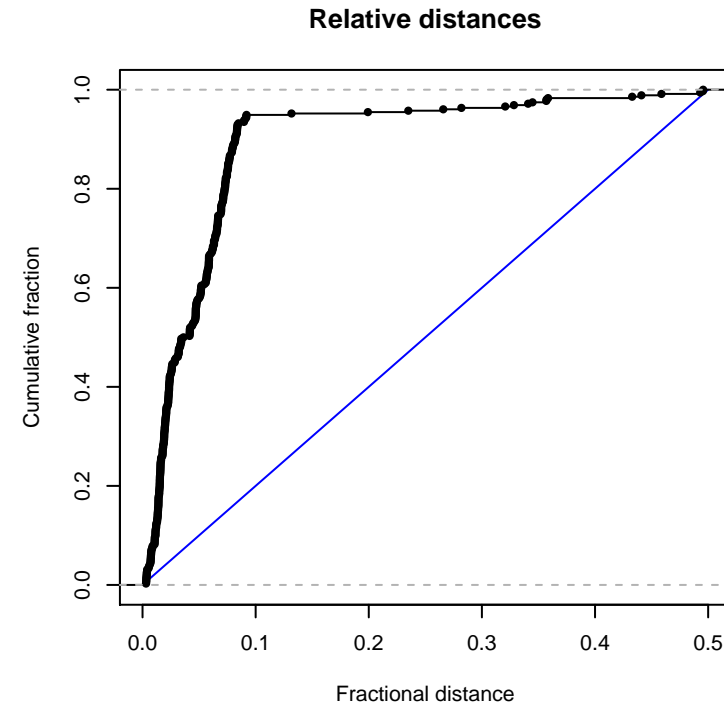
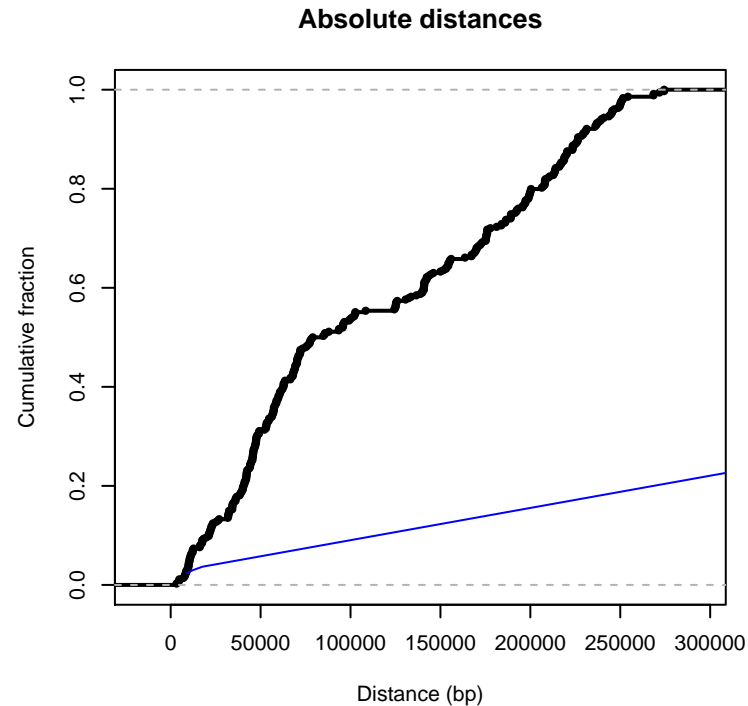
# pcontig\_070

Query population : 332  
Reference population : 8  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.135875  
Relative ecdf area correlation : 0.543528  
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 : 0.4  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.420212  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.514031



# pcontig\_072

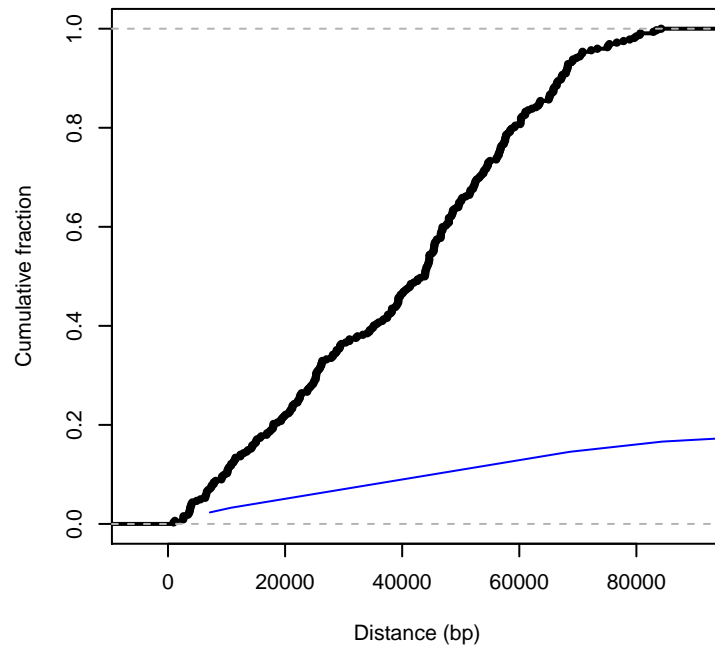
Query population : 354  
Reference population : 4  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.194015  
Relative ecdf area correlation : 0.776185  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.13  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.215646  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



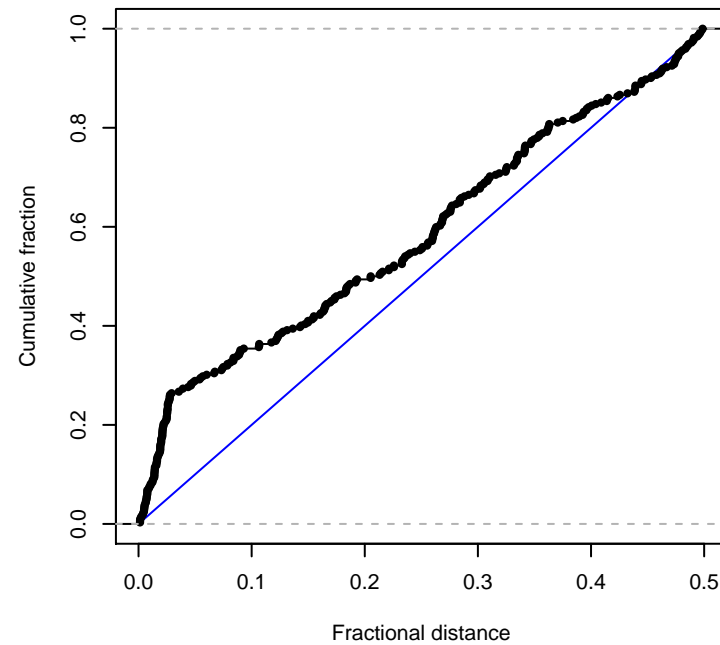
# pcontig\_073

Query population : 322  
Reference population : 5  
Relative Ks p-value :  $3.1235e-12$   
Relative ecdf deviation area : 0.0416752  
Relative ecdf area correlation : 0.163053  
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 : 0.42  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0979192  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.8294

Absolute distances

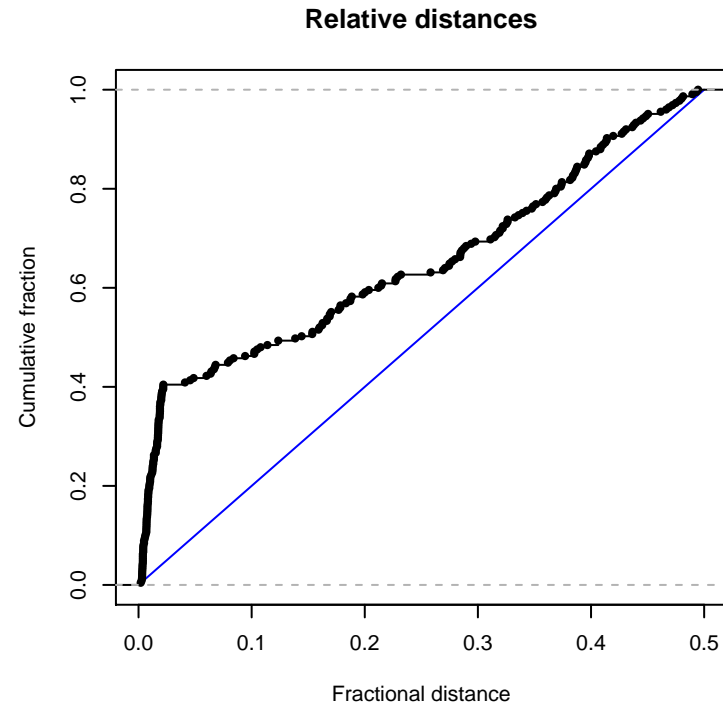
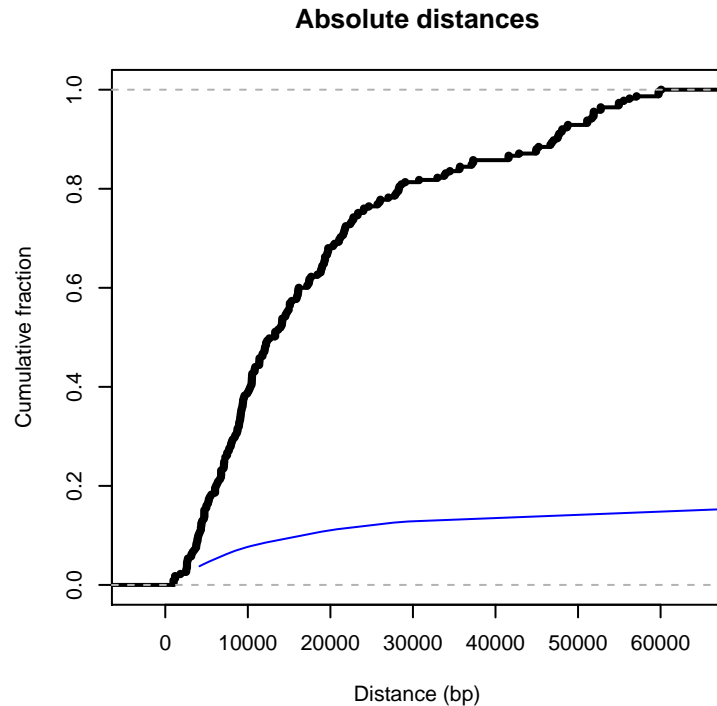


Relative distances



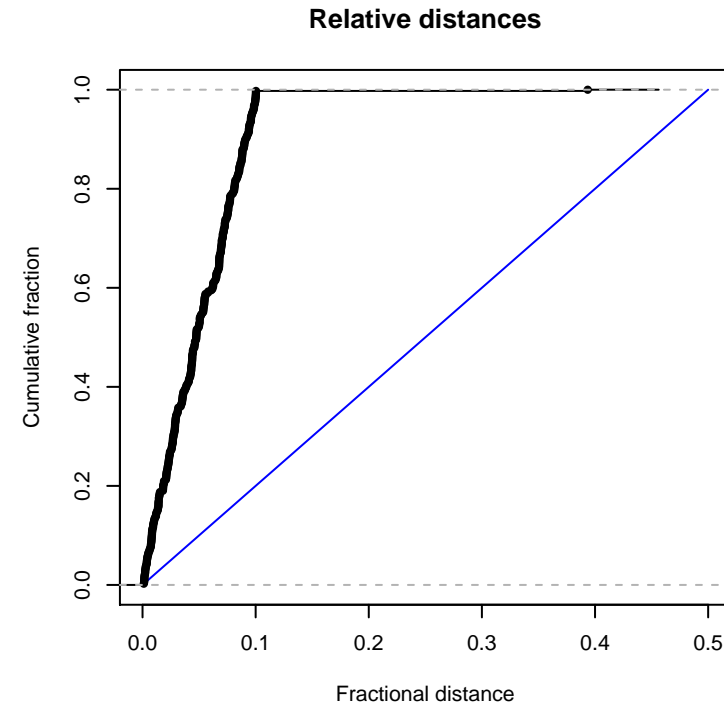
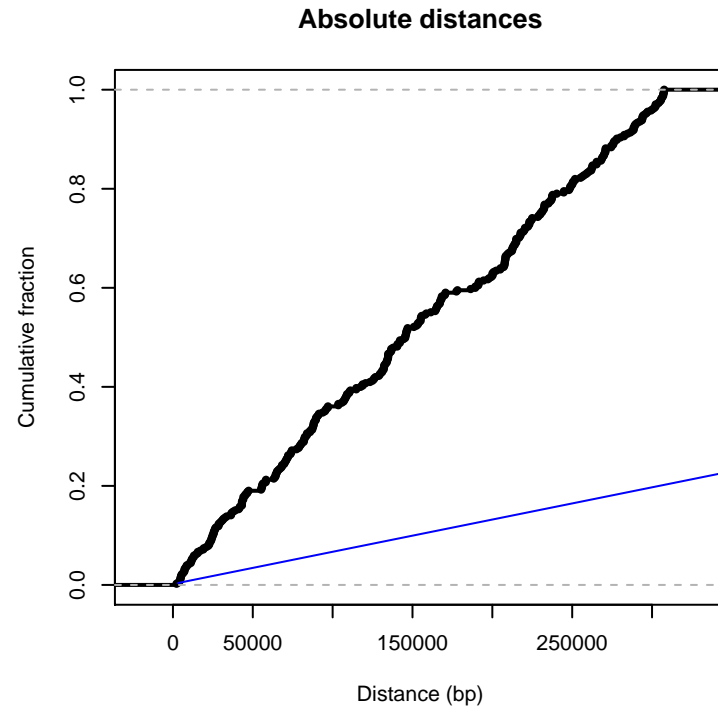
# pcontig\_074

Query population : 225  
Reference population : 14  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0736924  
Relative ecdf area correlation : 0.294609  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0664485  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



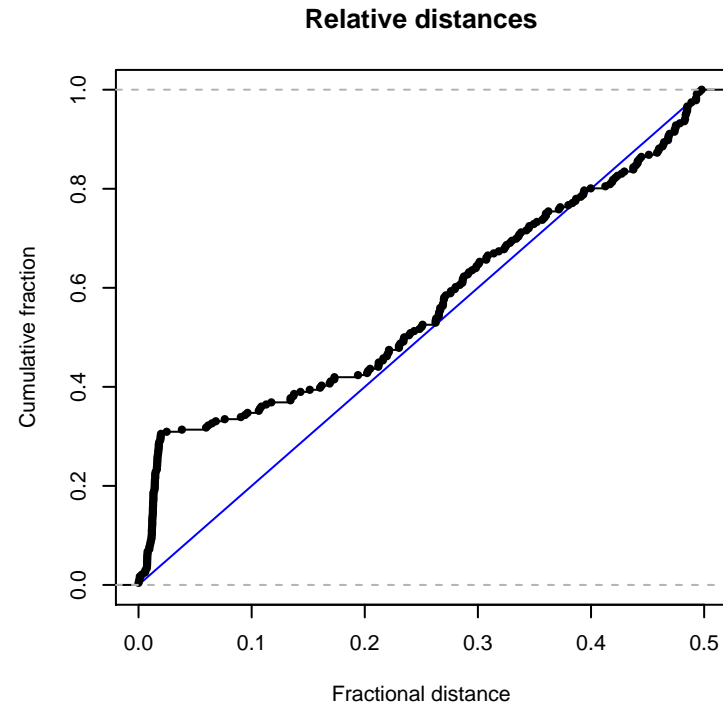
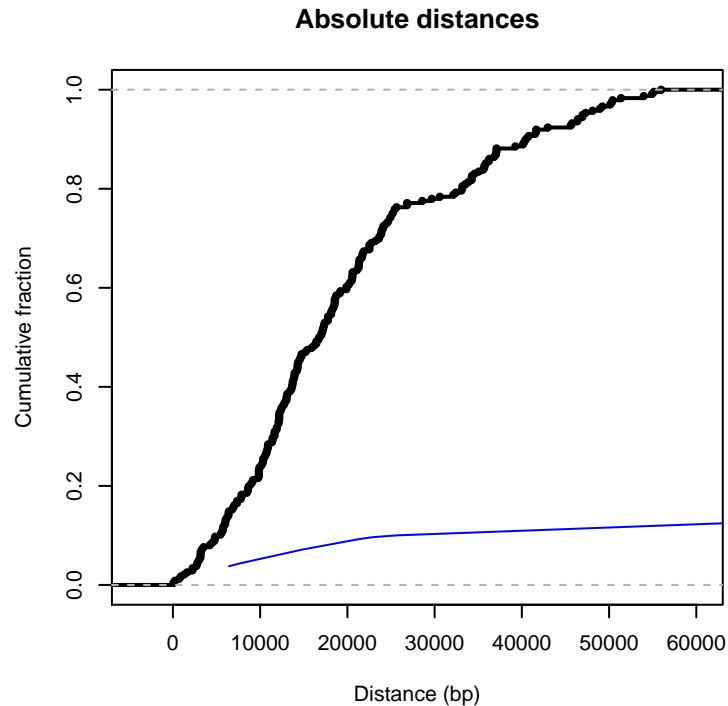
# pcontig\_075

Query population : 405  
Reference population : 2  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.199713  
Relative ecdf area correlation : 0.799164  
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 : 0.45  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.282705  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_077

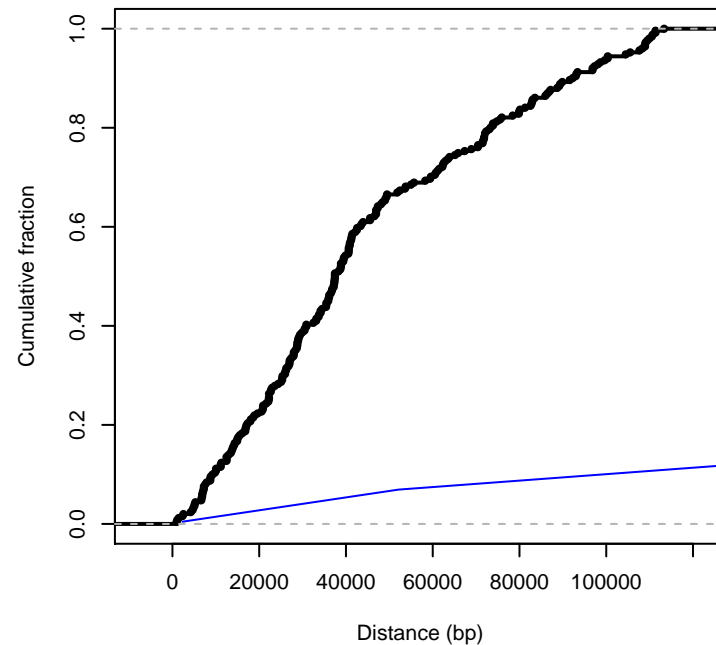
Query population : 236  
Reference population : 9  
Relative Ks p-value : 7.43849e-15  
Relative ecdf deviation area : 0.0349326  
Relative ecdf area correlation : 0.118677  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.16  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0213874  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.5557



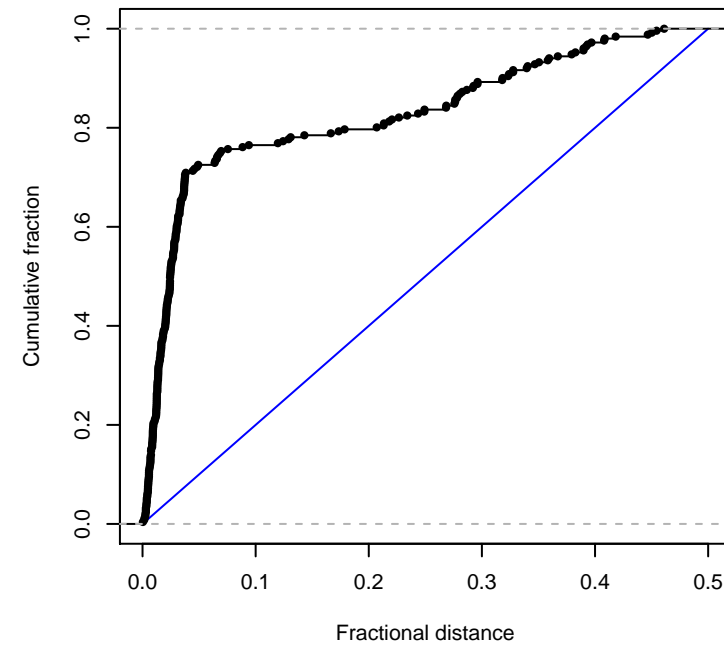
# pcontig\_078

Query population : 251  
Reference population : 3  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.163569  
Relative ecdf area correlation : 0.654289  
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 : 0.0780263  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.17645

Absolute distances



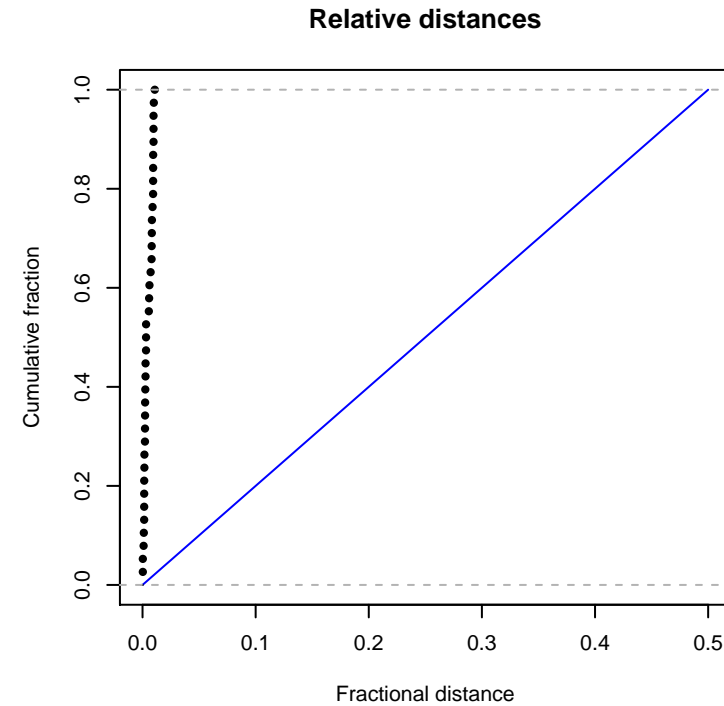
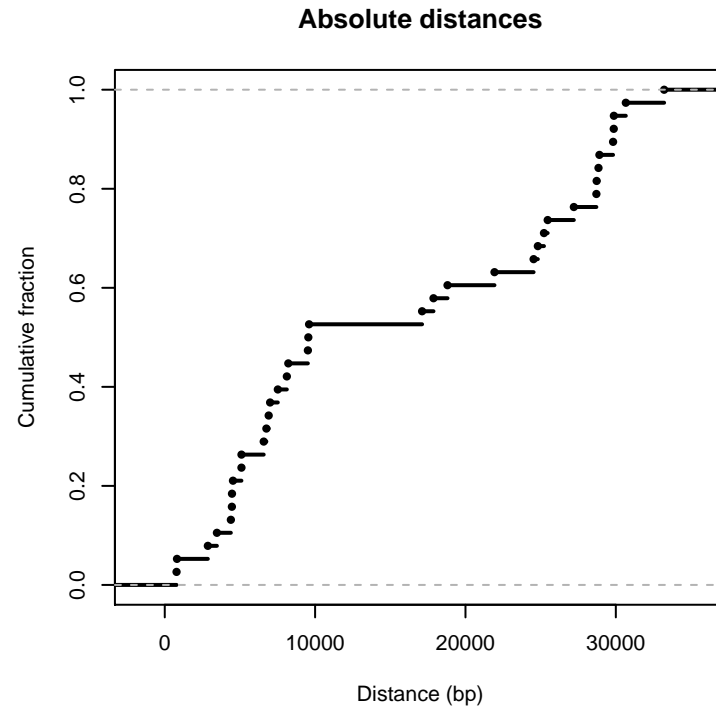
Relative distances





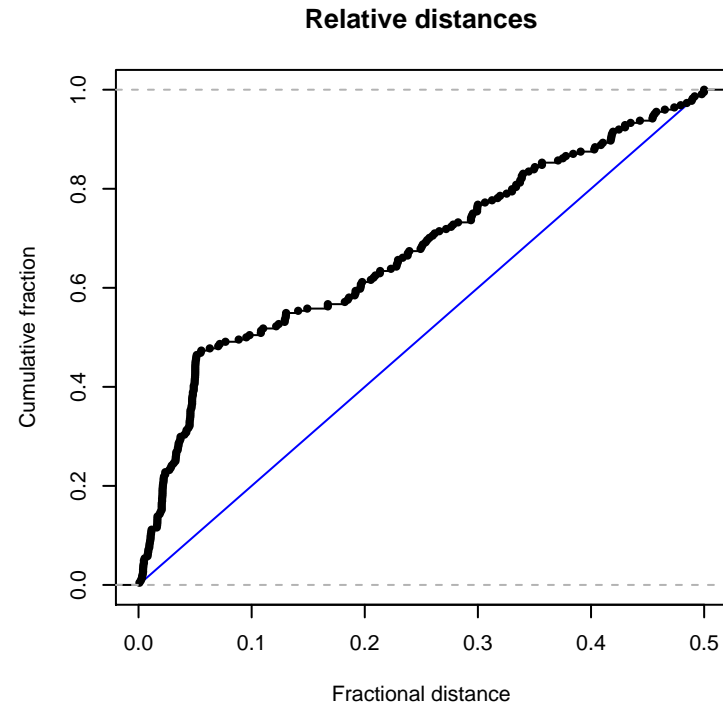
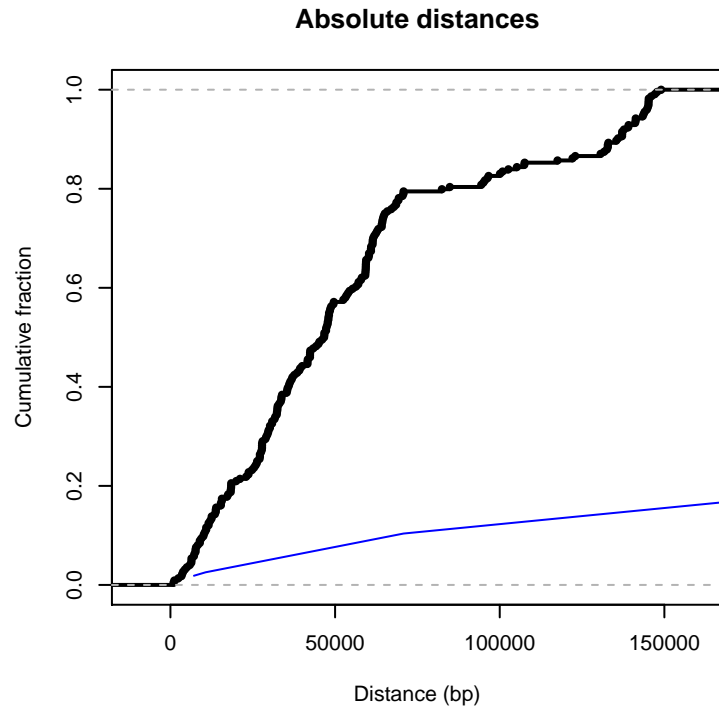
# pcontig\_079

Query population : 38  
Reference population : 1  
Relative Ks p-value : 2.22045e-16  
Relative ecdf deviation area : 0.245106  
Relative ecdf area correlation : 0.979879  
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 : 0.000184041  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 51.1158



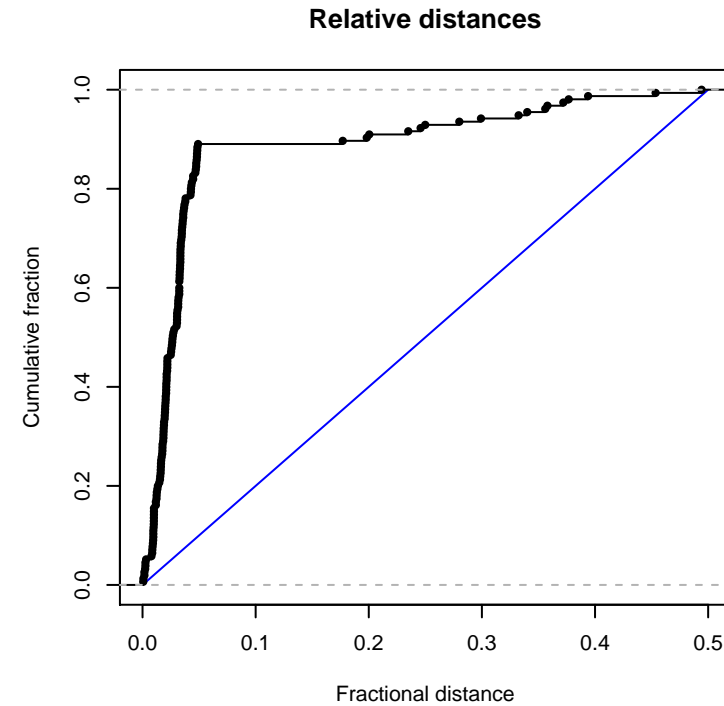
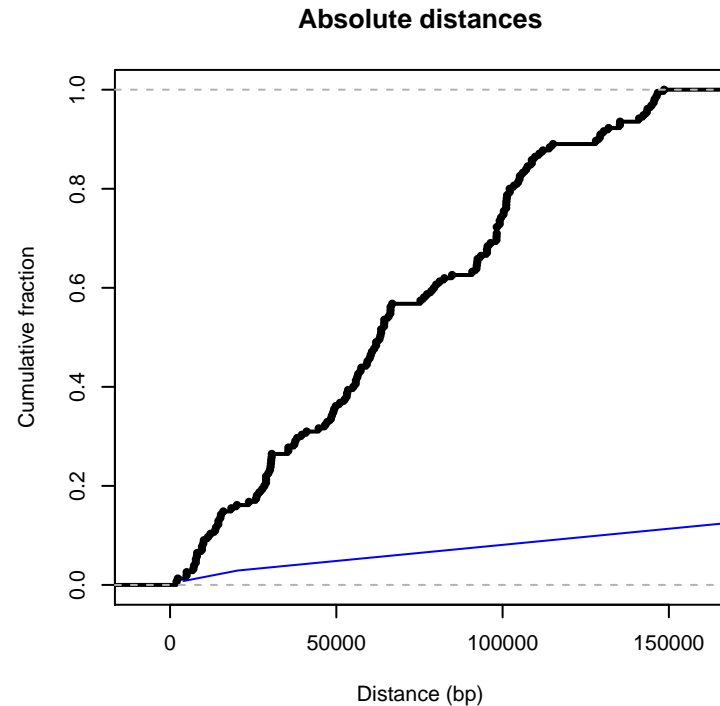
# pcontig\_080

Query population : 224  
Reference population : 4  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0841116  
Relative ecdf area correlation : 0.335971  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.1  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0227163  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.34549



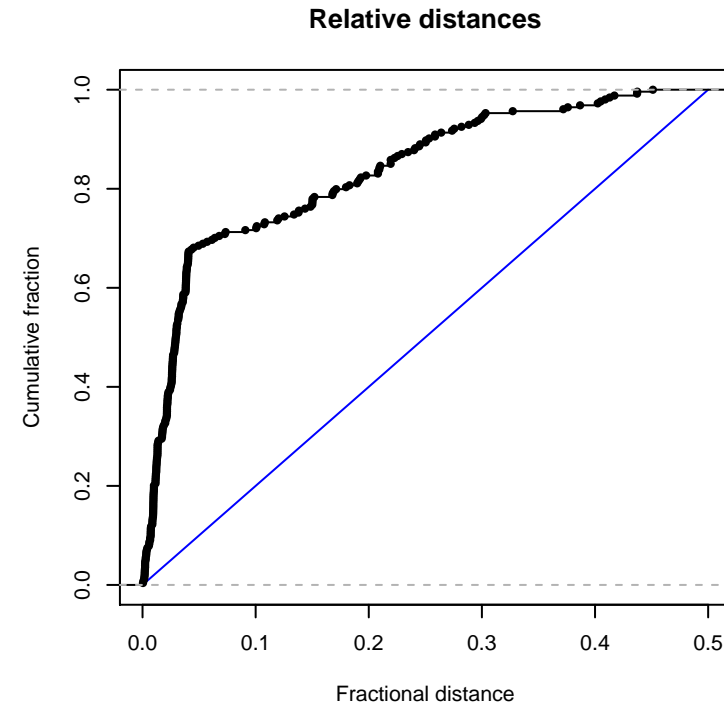
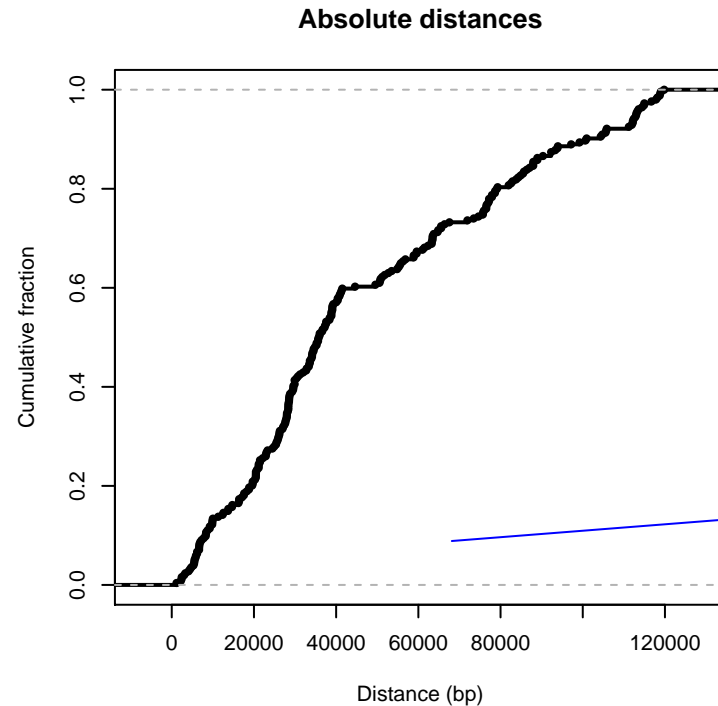
# pcontig\_081

Query population : 155  
Reference population : 3  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.193247  
Relative ecdf area correlation : 0.773636  
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 : 0.49  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.336601  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



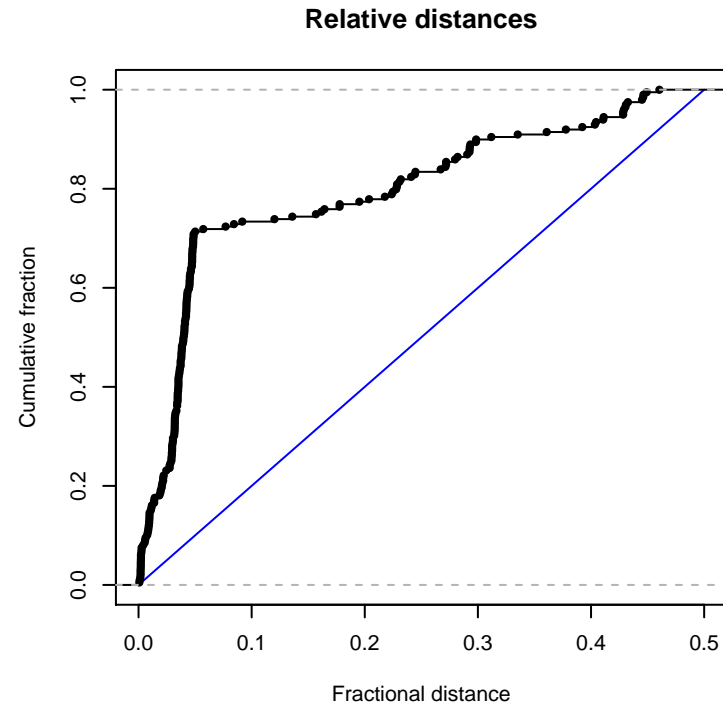
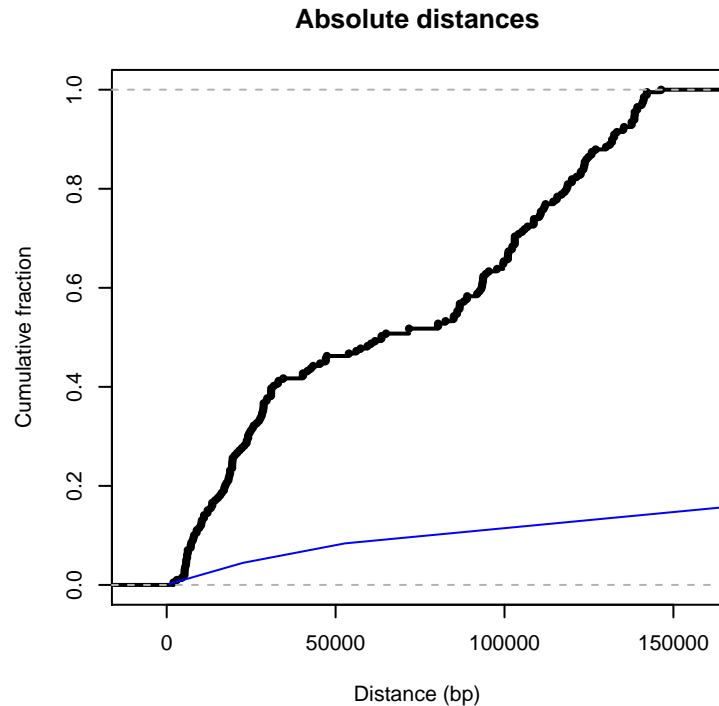
# pcontig\_082

Query population : 254  
Reference population : 2  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.166351  
Relative ecdf area correlation : 0.665575  
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 : 0.37  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.228575  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



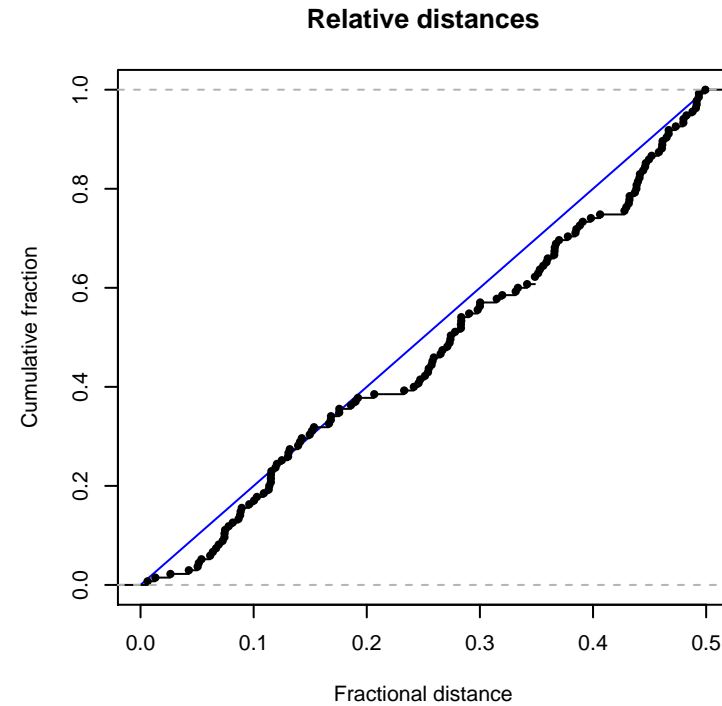
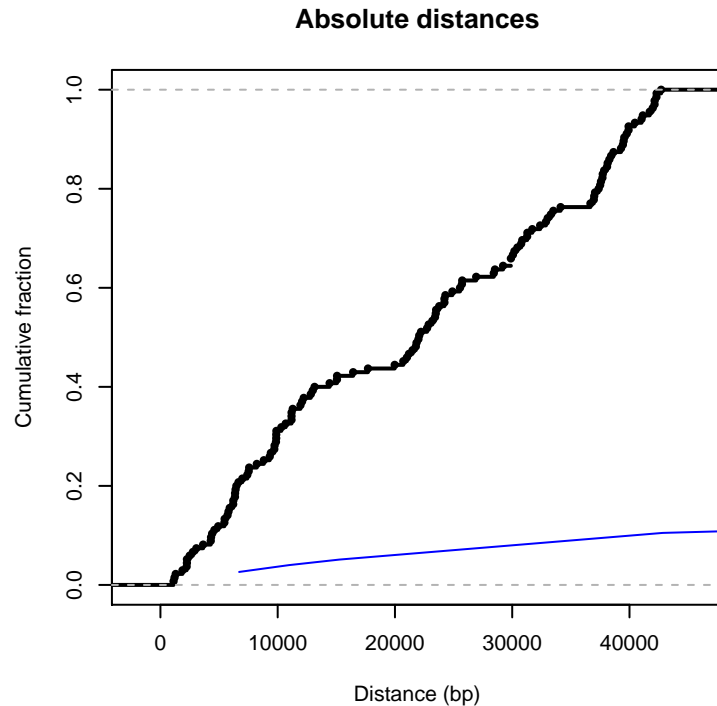
## pcontig\_083

Query population : 199  
Reference population : 4  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.147258  
Relative ecdf area correlation : 0.588986  
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 : 0.49  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.326304  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_084

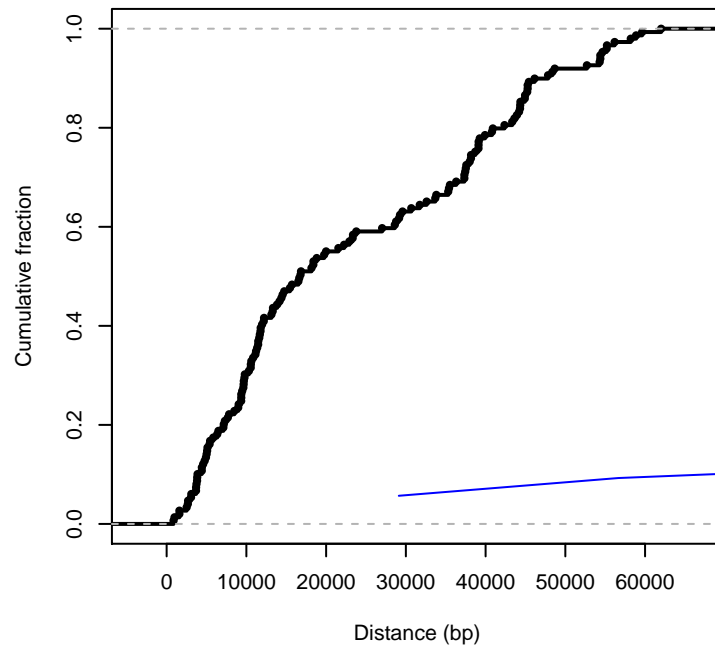
Query population : 135  
Reference population : 6  
Relative Ks p-value : 0.088591  
Relative ecdf deviation area : 0.0221285  
Relative ecdf area correlation : -0.0879928  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.151226  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.45435



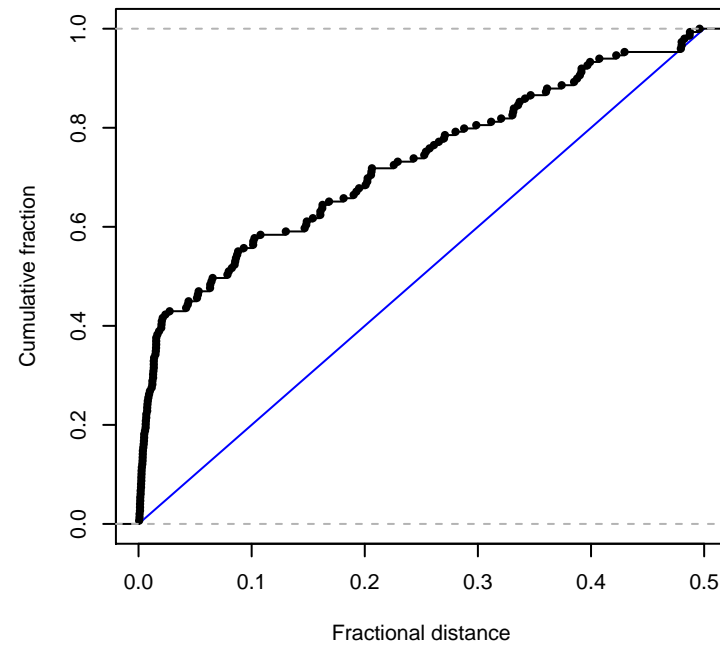
# pcontig\_086

Query population : 149  
Reference population : 3  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.111445  
Relative ecdf area correlation : 0.444823  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.26  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.285425  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

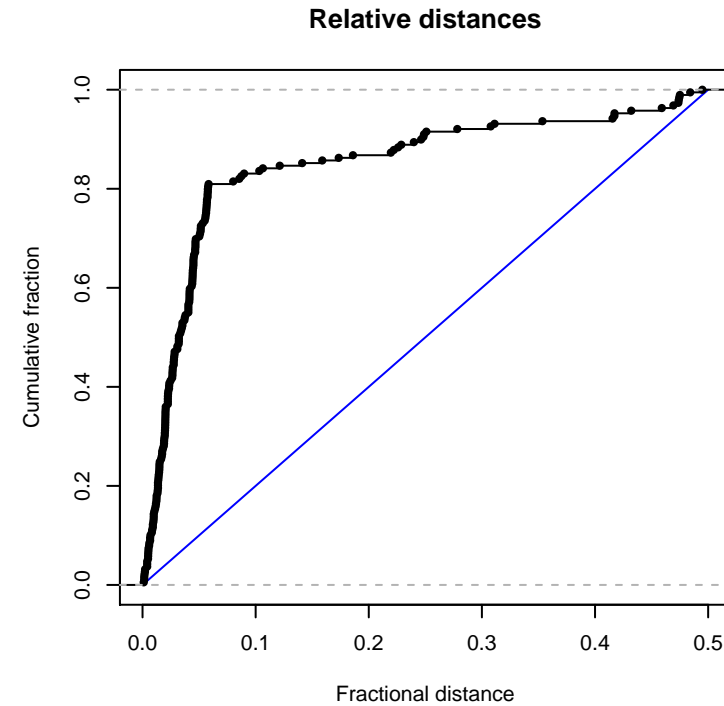
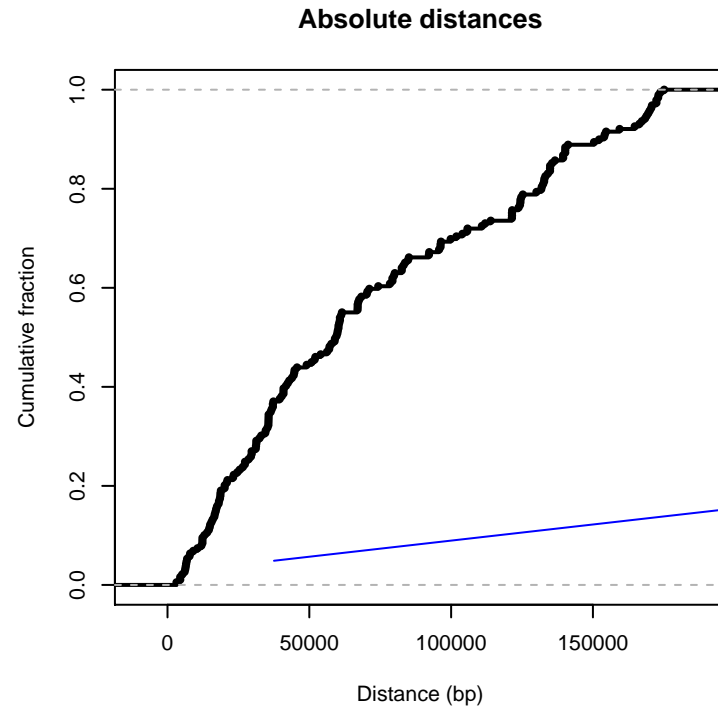


Relative distances



# pcontig\_087

Query population : 189  
Reference population : 2  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.173413  
Relative ecdf area correlation : 0.693923  
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 : 0.46  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.322345  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

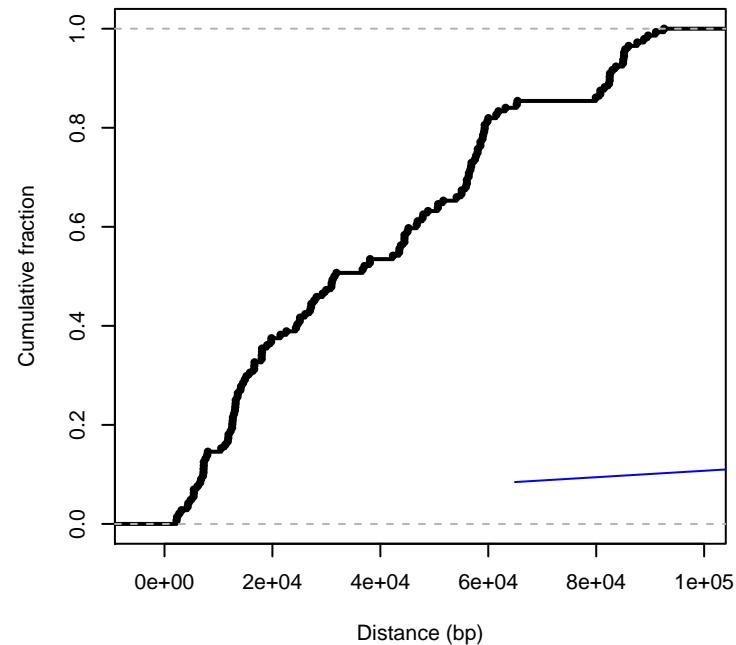




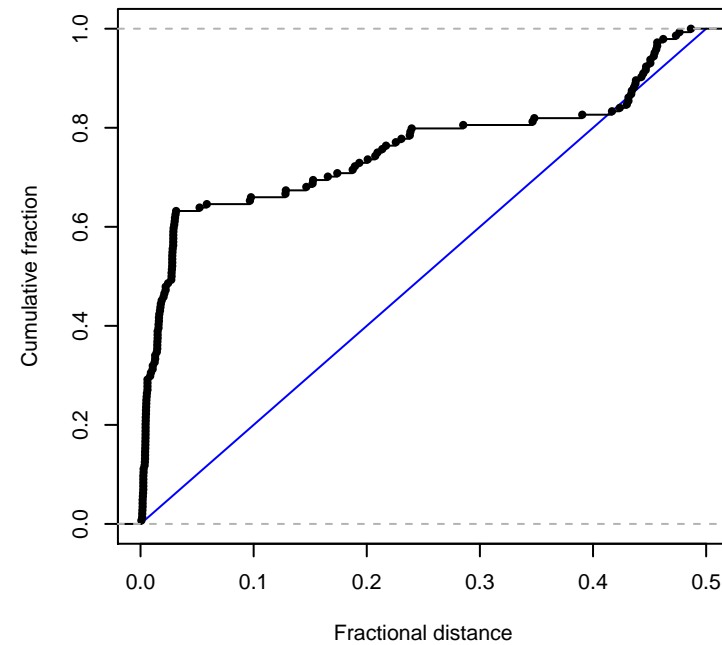
# pcontig\_088

Query population : 144  
Reference population : 2  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.126196  
Relative ecdf area correlation : 0.503011  
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 : 0.38  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.225966  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances



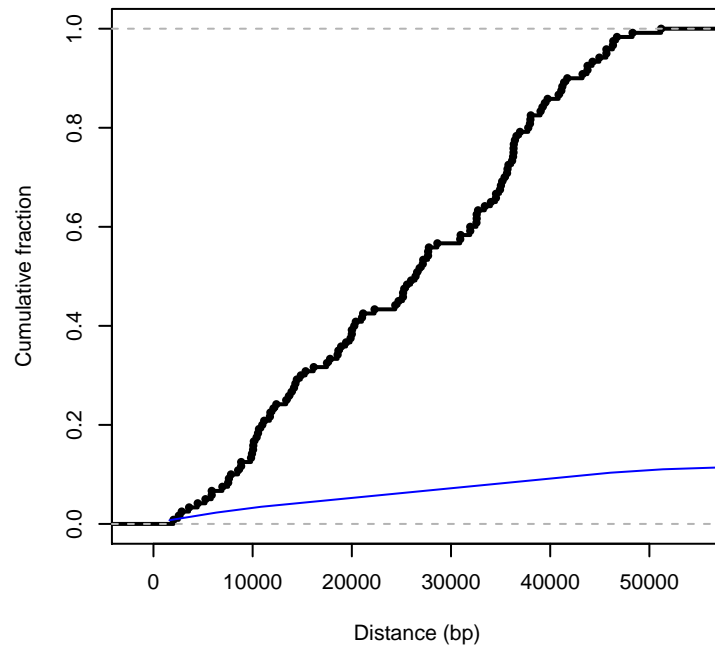
Relative distances



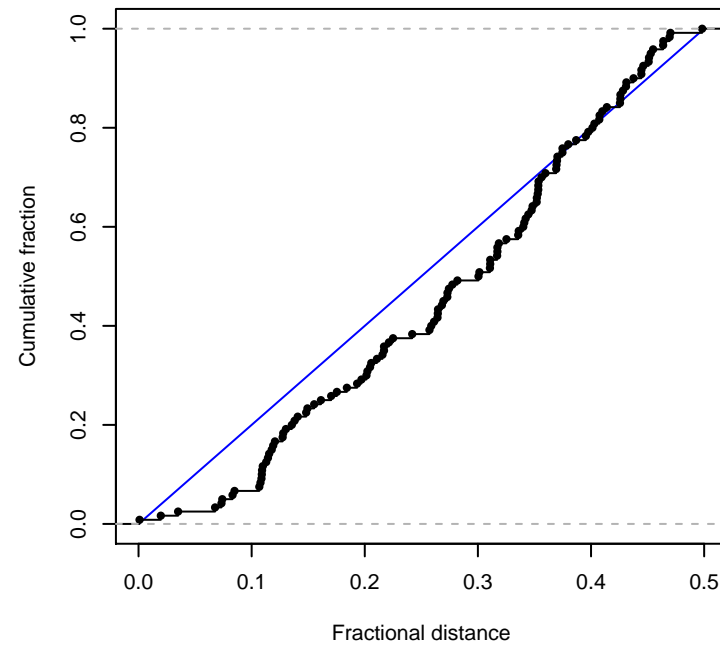
# pcontig\_089

Query population : 120  
Reference population : 7  
Relative Ks p-value : 0.0113126  
Relative ecdf deviation area : 0.0327781  
Relative ecdf area correlation : -0.114011  
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 : 0.4  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.214583  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.15598

Absolute distances



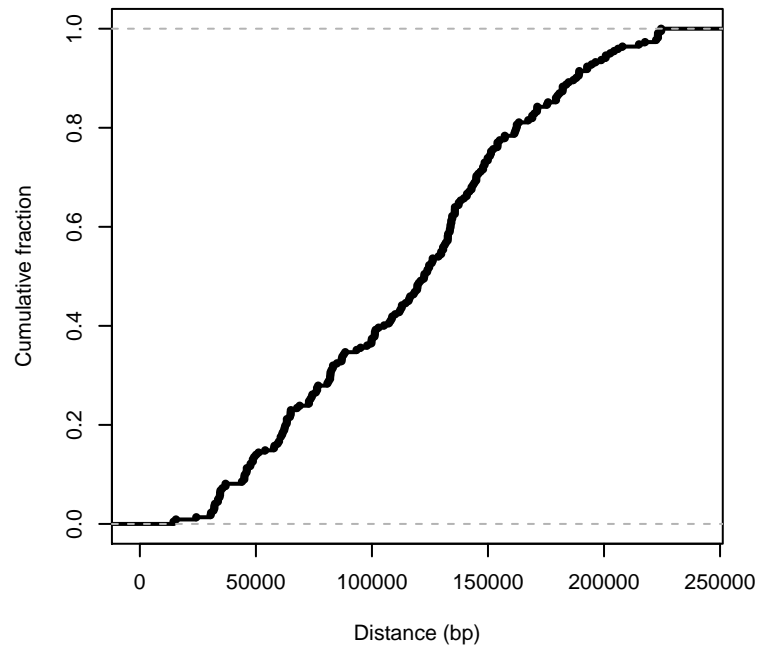
Relative distances



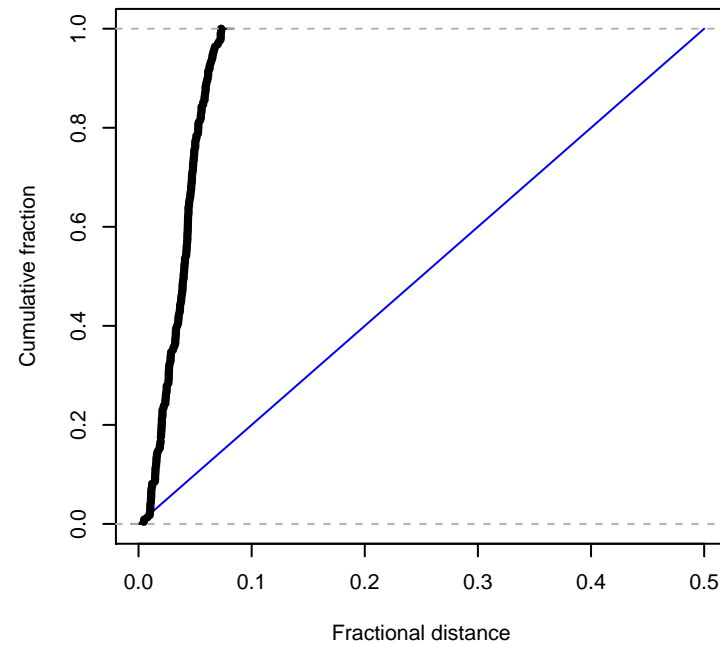
# pcontig\_090

Query population : 222  
Reference population : 1  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.21187  
Relative ecdf area correlation : 0.847407  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.11  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0406936  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances



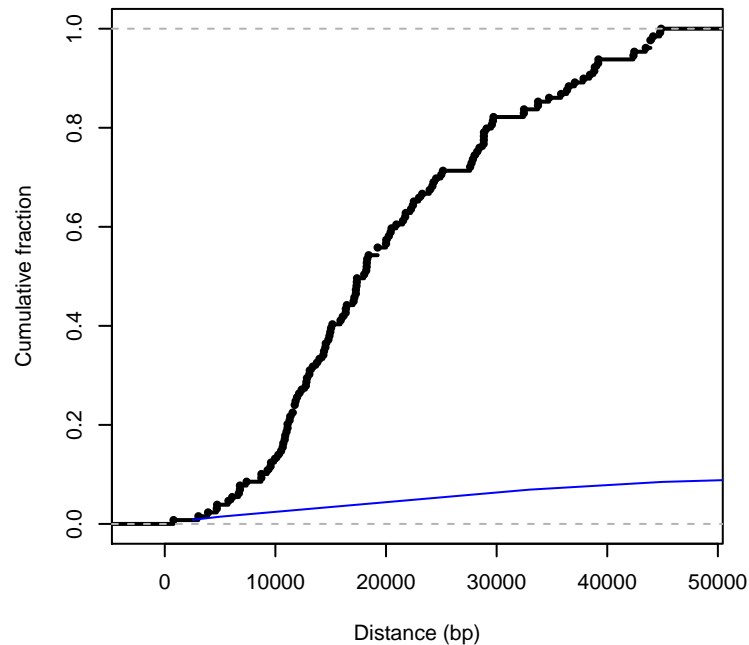
Relative distances



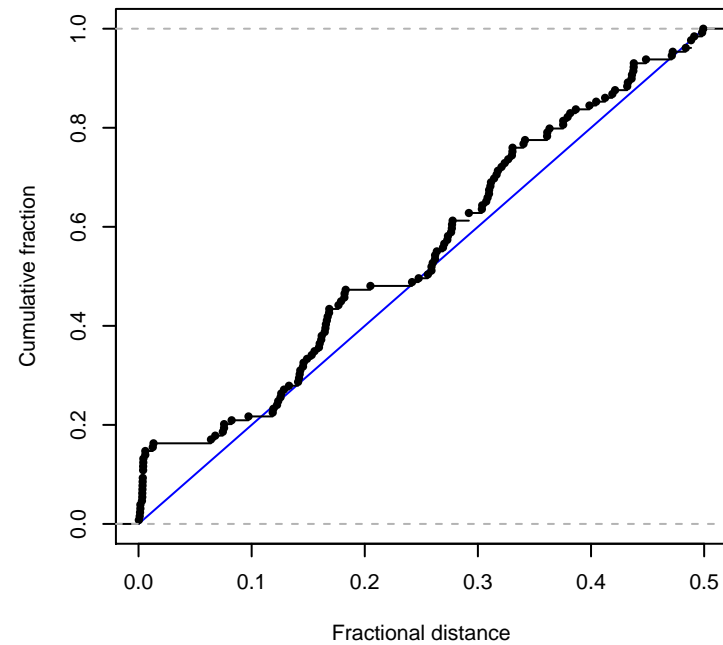
# pcontig\_091

Query population : 129  
Reference population : 5  
Relative Ks p-value : 0.0165755  
Relative ecdf deviation area : 0.0217731  
Relative ecdf area correlation : 0.0872762  
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 : 0.157575  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.41664

Absolute distances

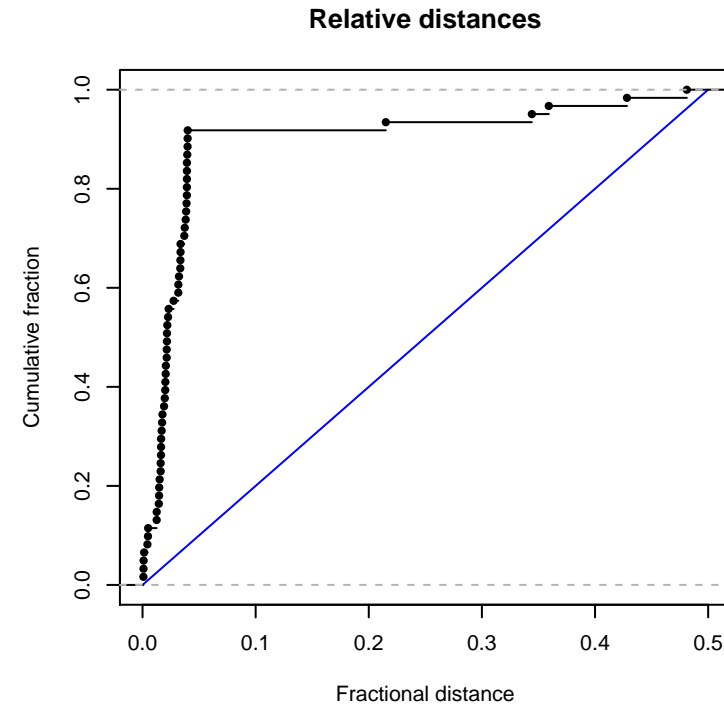
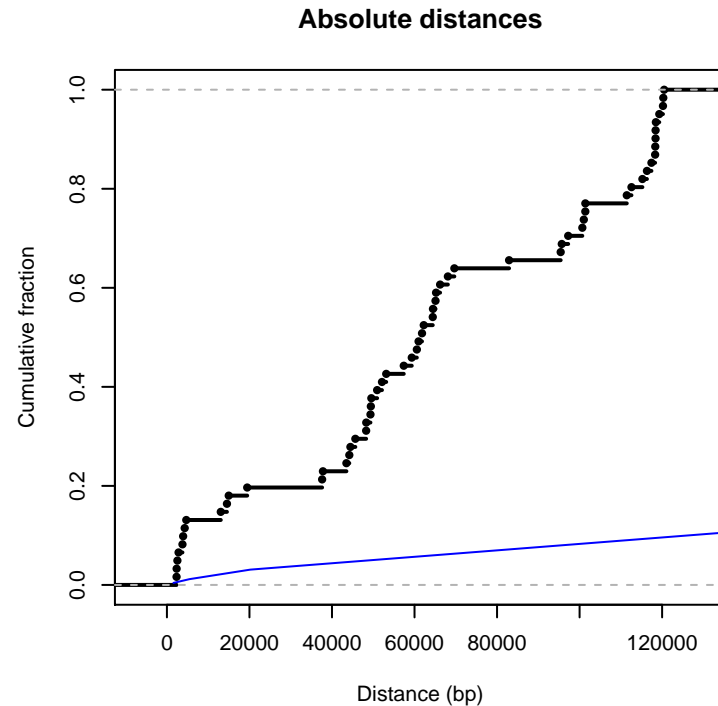


Relative distances



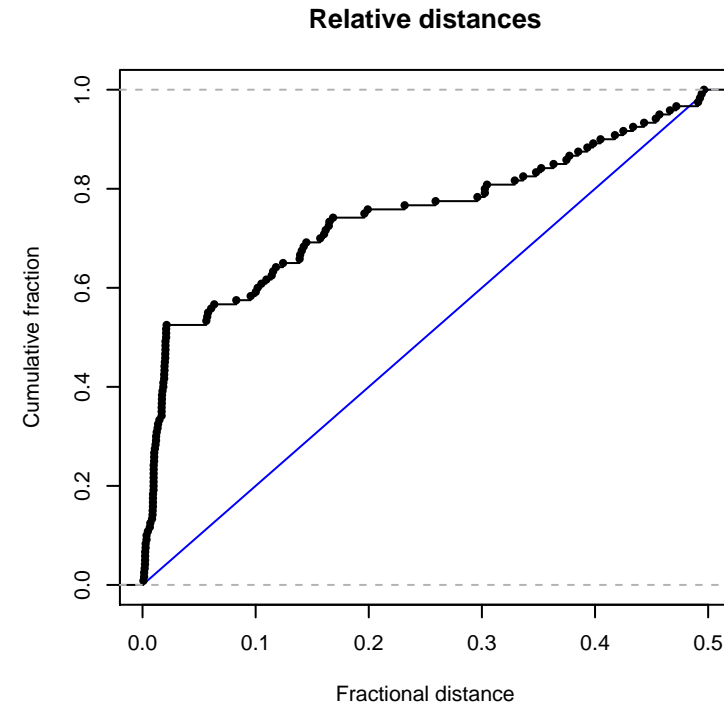
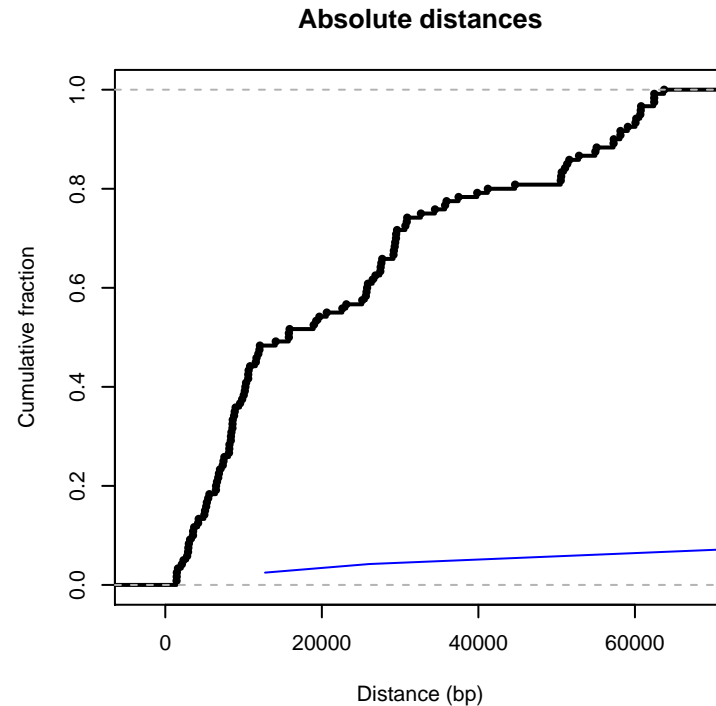
# pcontig\_092

Query population : 61  
Reference population : 4  
Relative Ks p-value : 1.66533e-15  
Relative ecdf deviation area : 0.198467  
Relative ecdf area correlation : 0.794214  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.25  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.189068  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_095

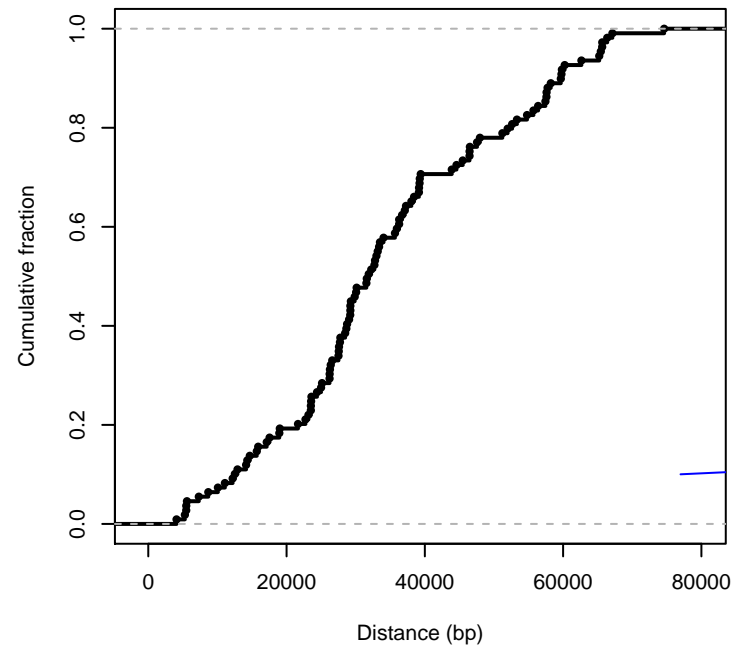
Query population : 120  
Reference population : 3  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.120031  
Relative ecdf area correlation : 0.483653  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.34  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.156396  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



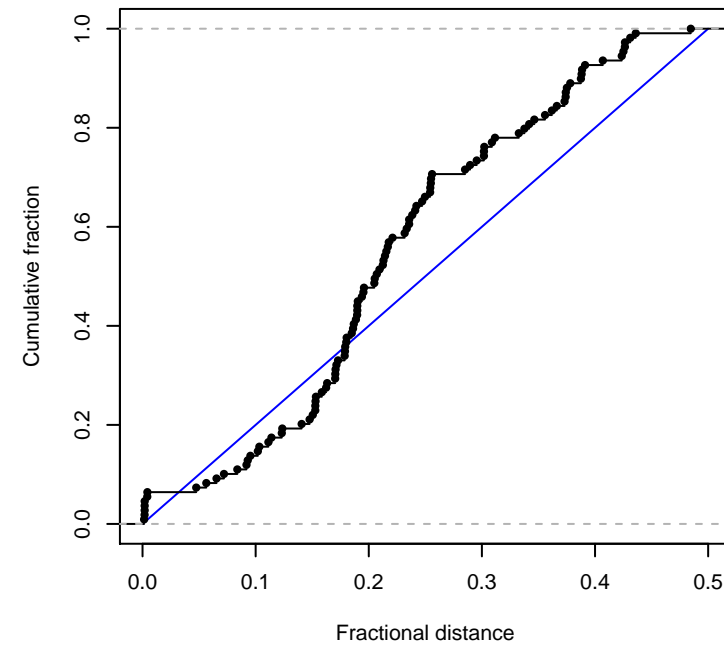
# pcontig\_097

Query population : 109  
Reference population : 2  
Relative Ks p-value : 0.000523344  
Relative ecdf deviation area : 0.0437836  
Relative ecdf area correlation : 0.112893  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.2  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.111279  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

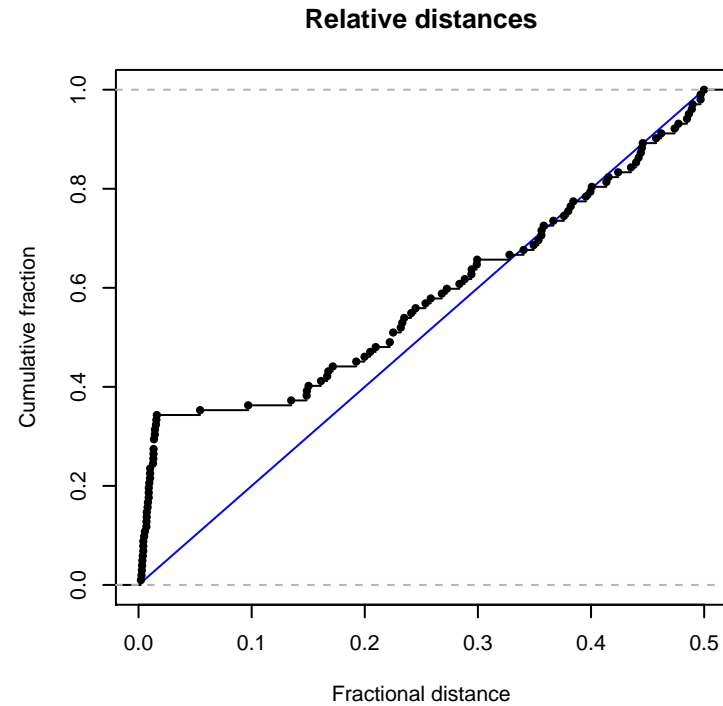
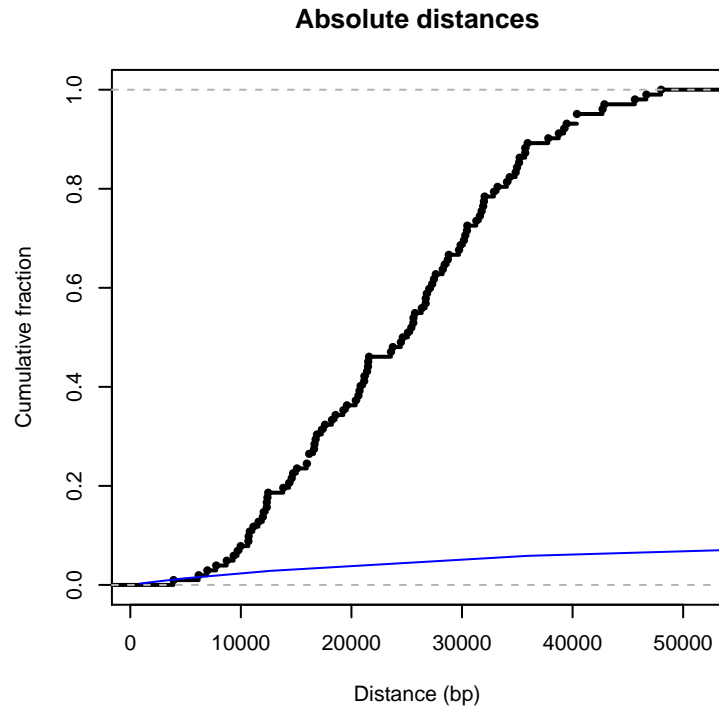


Relative distances



# pcontig\_100

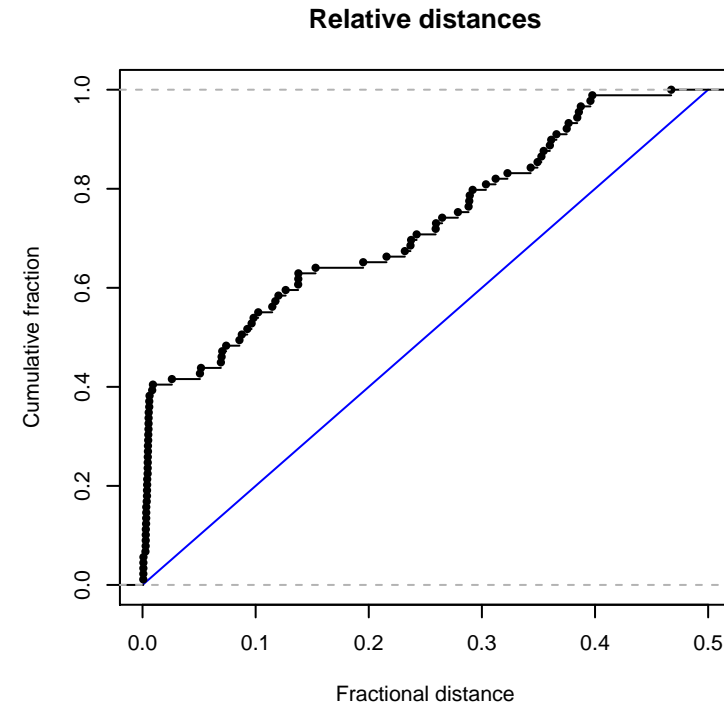
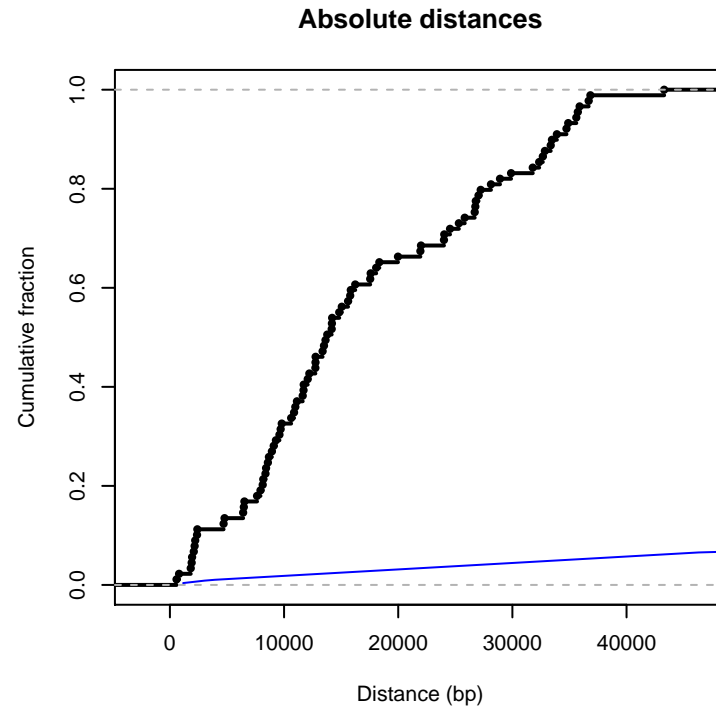
Query population : 102  
Reference population : 5  
Relative Ks p-value : 5.57127e-09  
Relative ecdf deviation area : 0.0400424  
Relative ecdf area correlation : 0.139879  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.47  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.339154  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





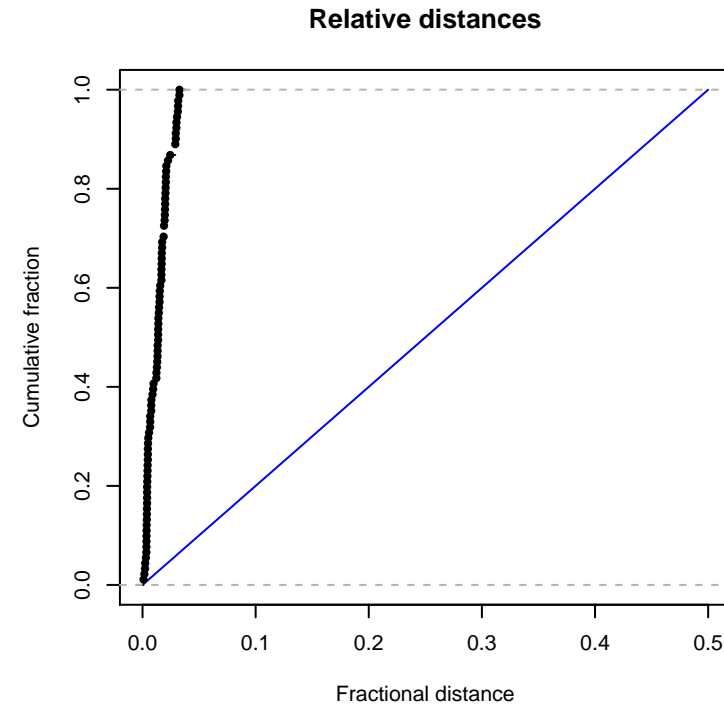
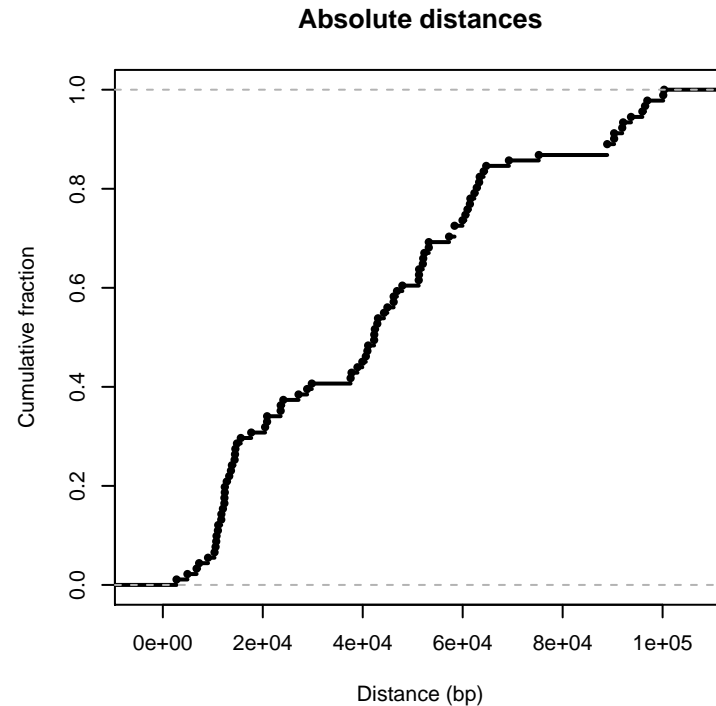
# pcontig\_103

Query population : 89  
Reference population : 5  
Relative Ks p-value : 1.88061e-12  
Relative ecdf deviation area : 0.111375  
Relative ecdf area correlation : 0.445398  
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 : 0.000253007  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 7.20958



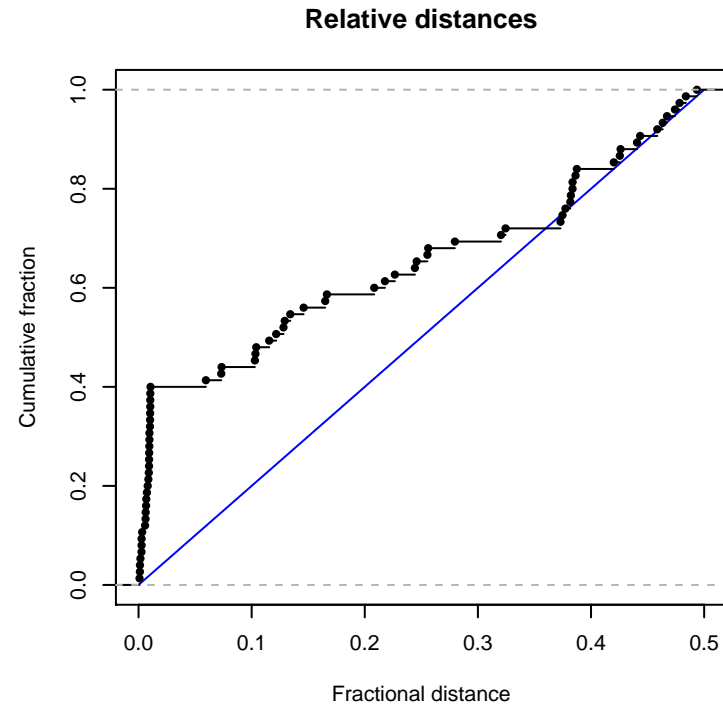
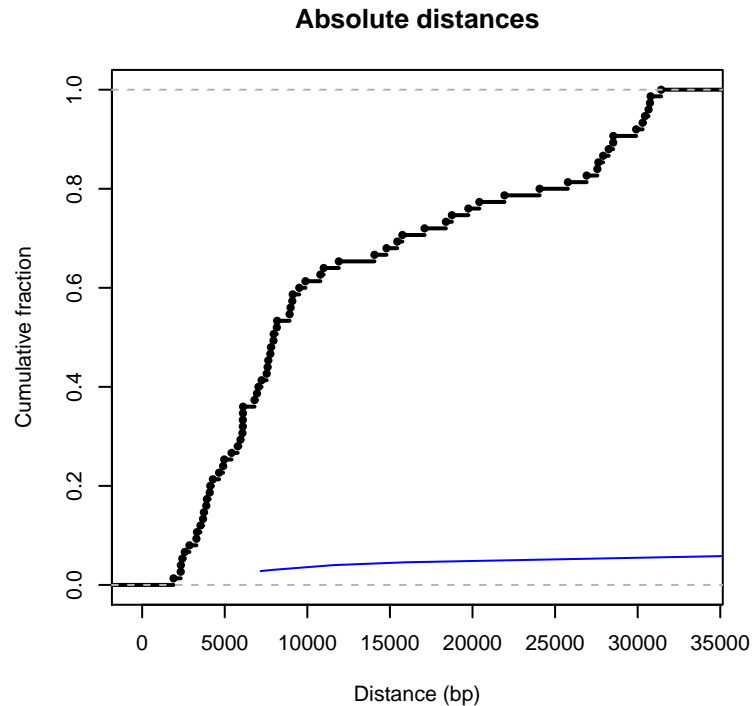
# pcontig\_104

Query population : 91  
Reference population : 1  
Relative Ks p-value : 3.33067e-16  
Relative ecdf deviation area : 0.236355  
Relative ecdf area correlation : 0.94483  
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 : 0.08  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0627068  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



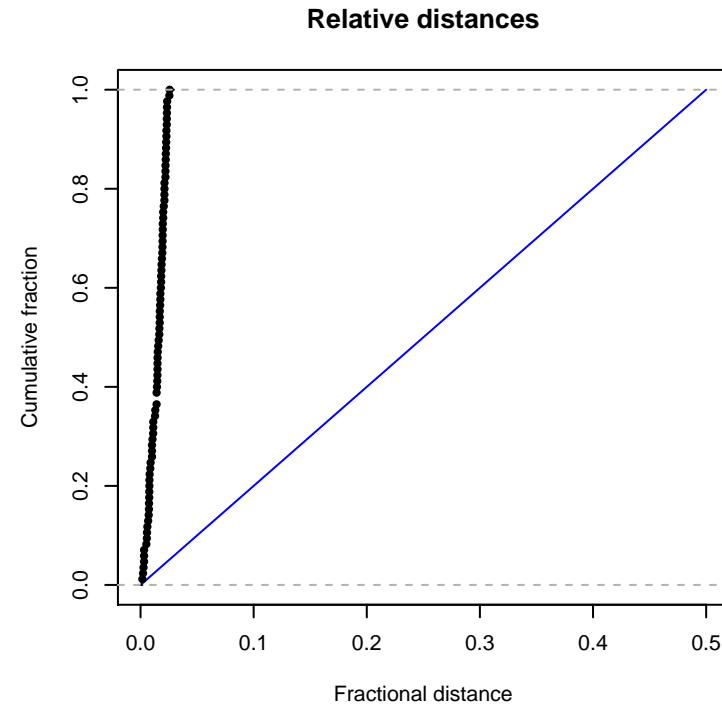
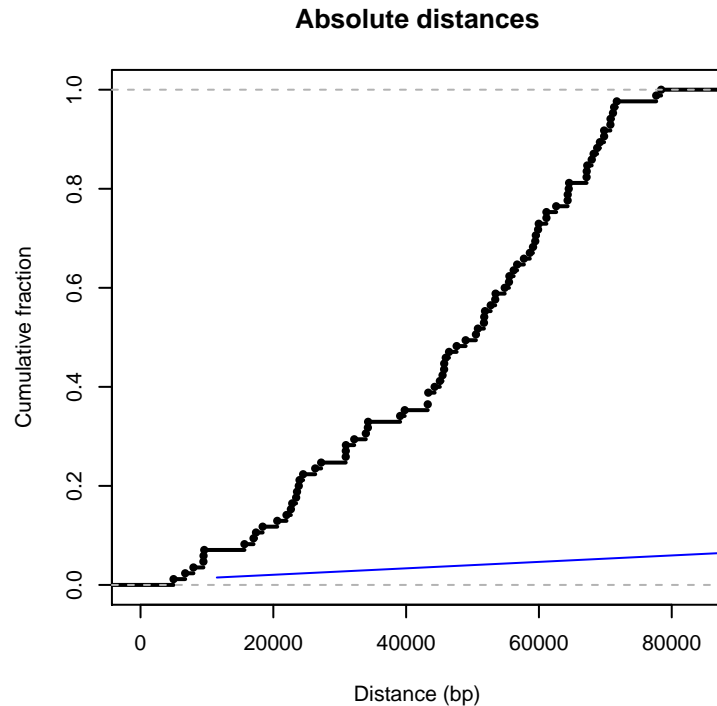
# pcontig\_106

Query population : 75  
Reference population : 6  
Relative Ks p-value : 3.51359e-10  
Relative ecdf deviation area : 0.0728174  
Relative ecdf area correlation : 0.28977  
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 : 0.47  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.297043  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_110

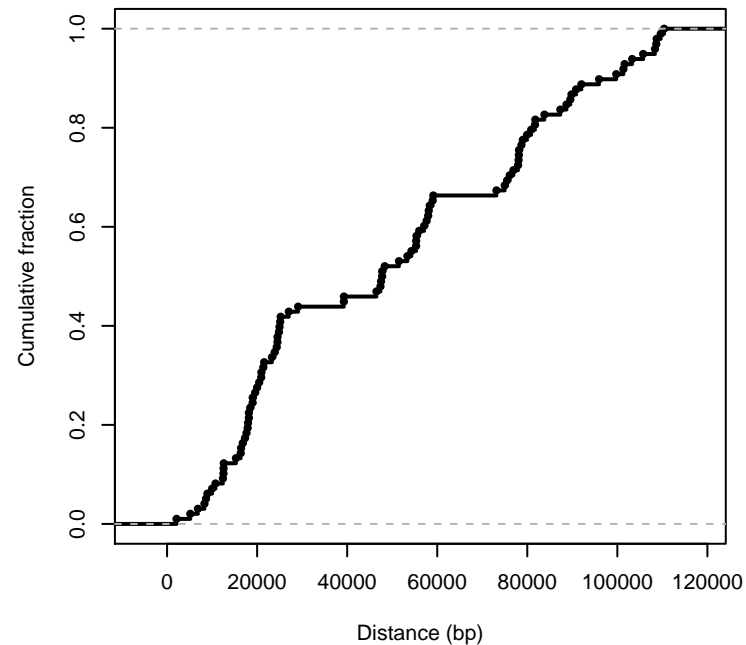
Query population : 85  
Reference population : 2  
Relative Ks p-value : 9.99201e-16  
Relative ecdf deviation area : 0.234972  
Relative ecdf area correlation : 0.939699  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.24  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.164698  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



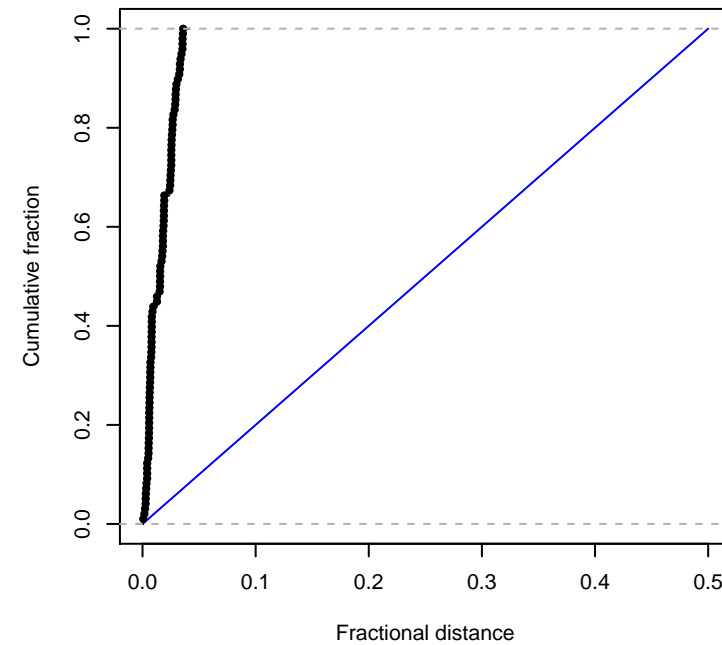
# pcontig\_112

Query population : 98  
Reference population : 1  
Relative Ks p-value : 4.44089e-16  
Relative ecdf deviation area : 0.2339  
Relative ecdf area correlation : 0.935446  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.12  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0611828  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

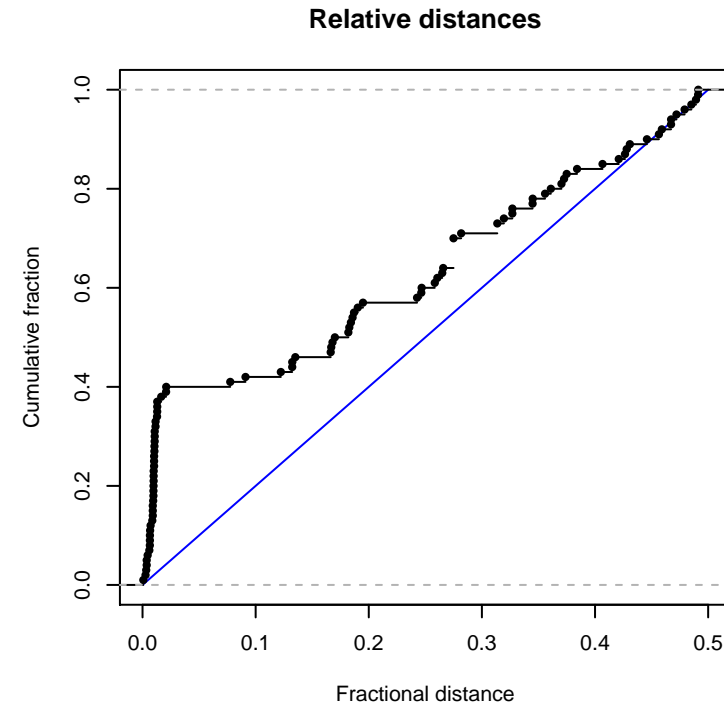
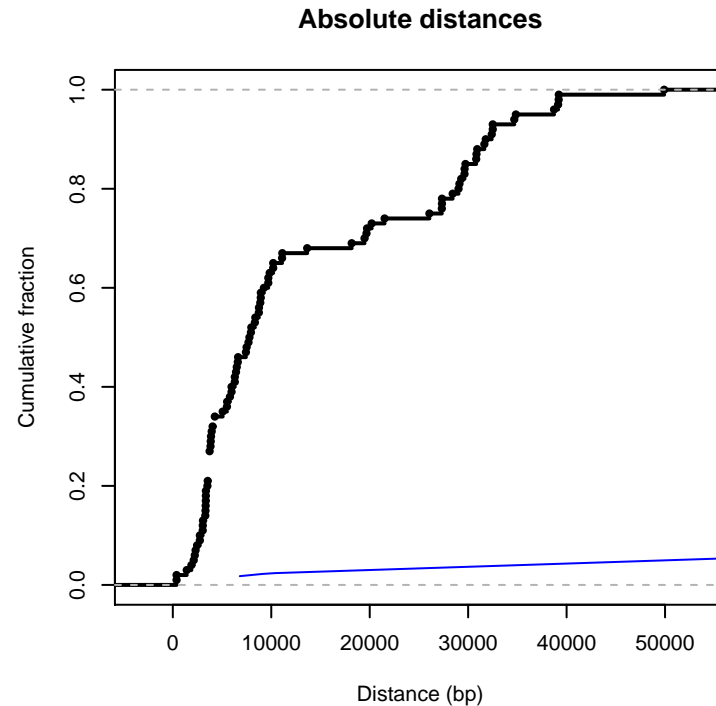


Relative distances



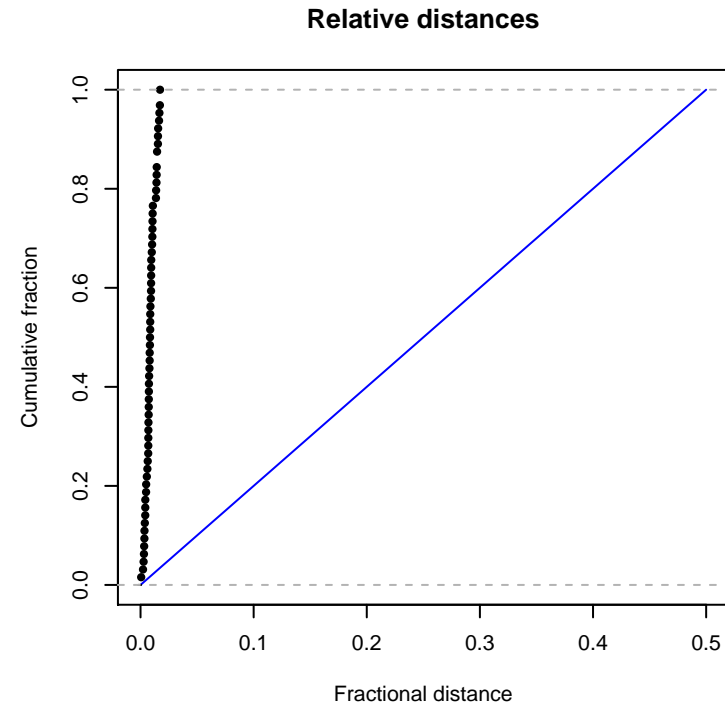
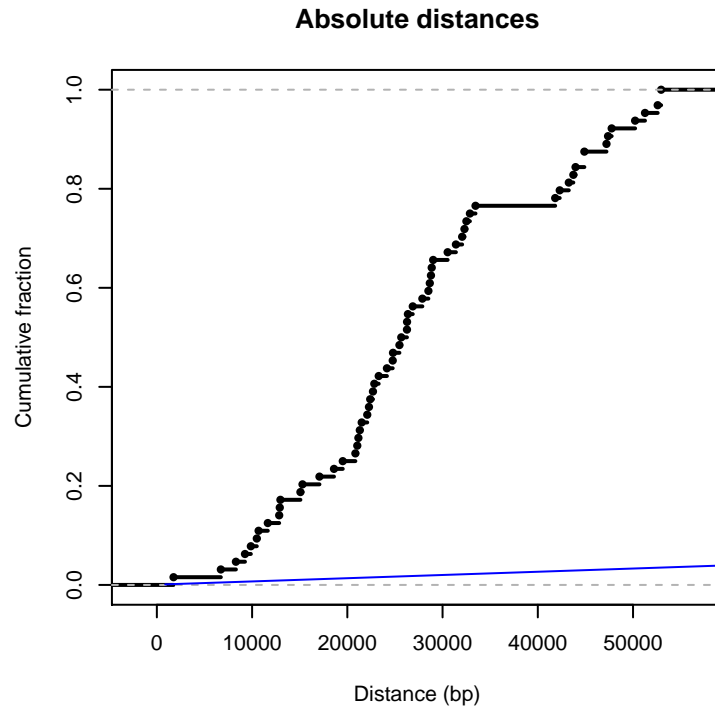
# pcontig\_115

Query population : 100  
Reference population : 4  
Relative Ks p-value : 1.44201e-11  
Relative ecdf deviation area : 0.0643818  
Relative ecdf area correlation : 0.256437  
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 : 0.00192172  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 8.26708



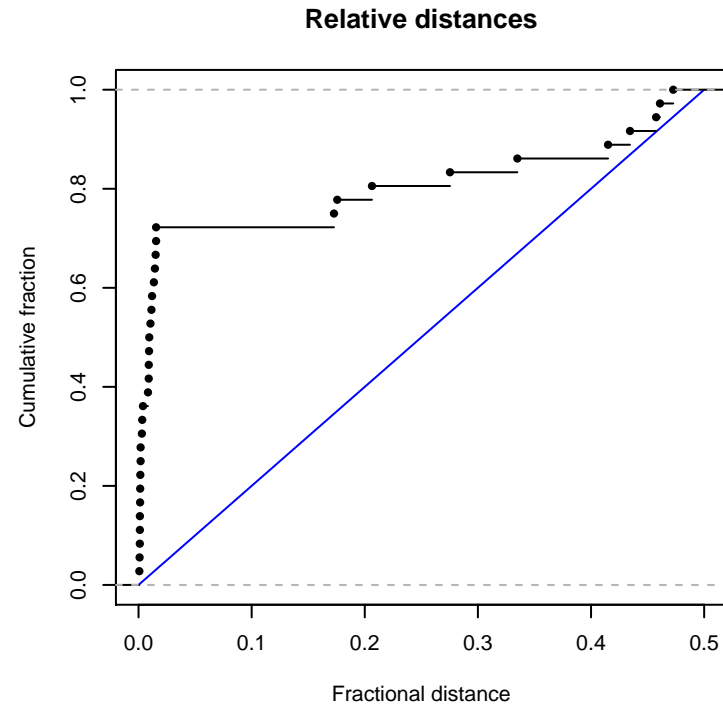
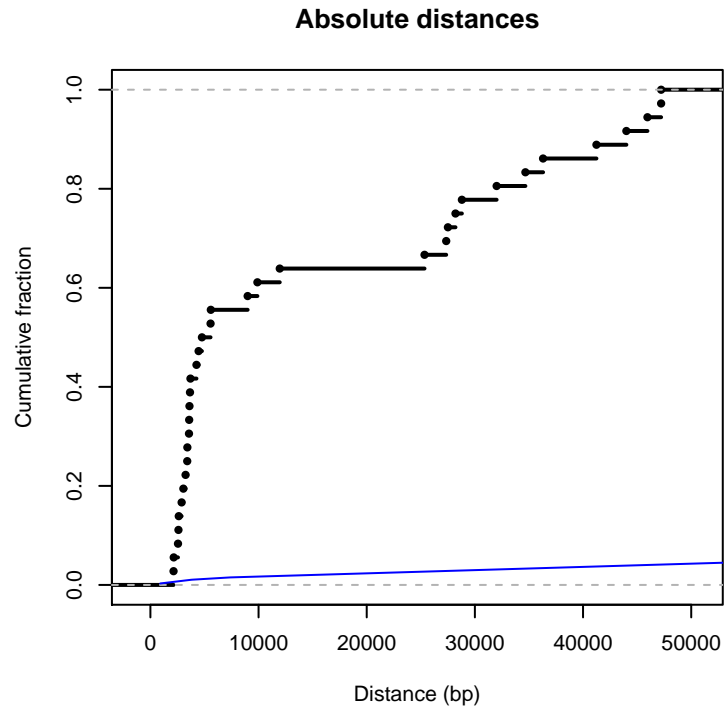
# pcontig\_120

Query population : 64  
Reference population : 2  
Relative Ks p-value : 2.22045e-16  
Relative ecdf deviation area : 0.241048  
Relative ecdf area correlation : 0.963997  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.07  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0666702  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_130

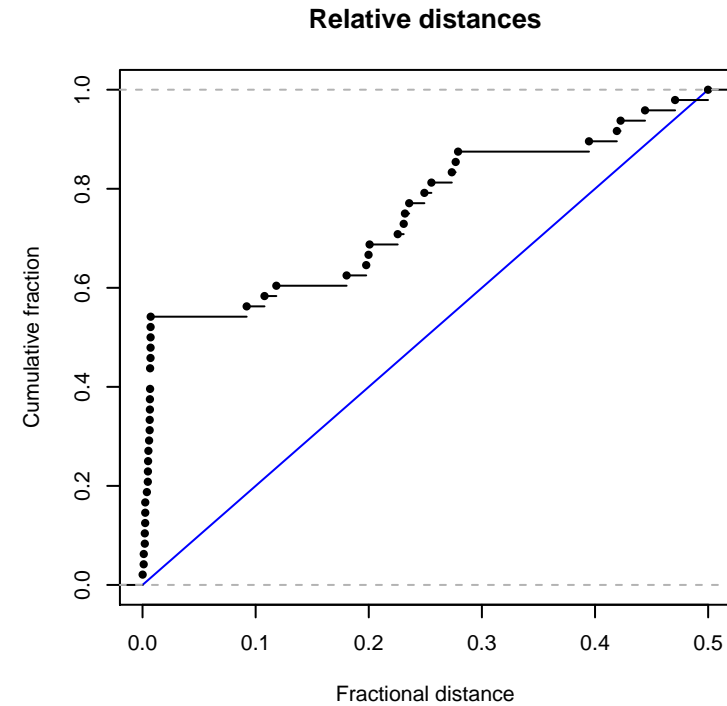
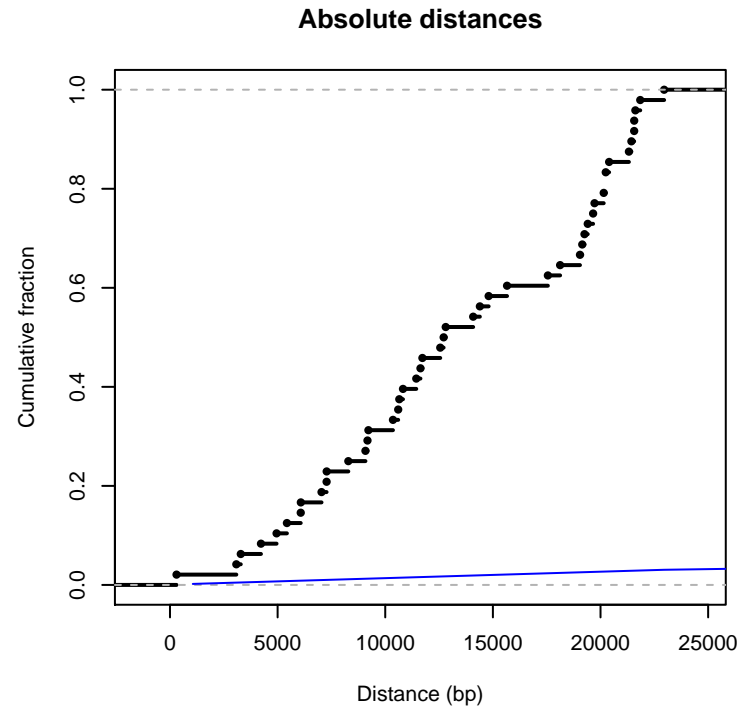
Query population : 36  
Reference population : 5  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.150364  
Relative ecdf area correlation : 0.601968  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.11406  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





# pcontig\_138

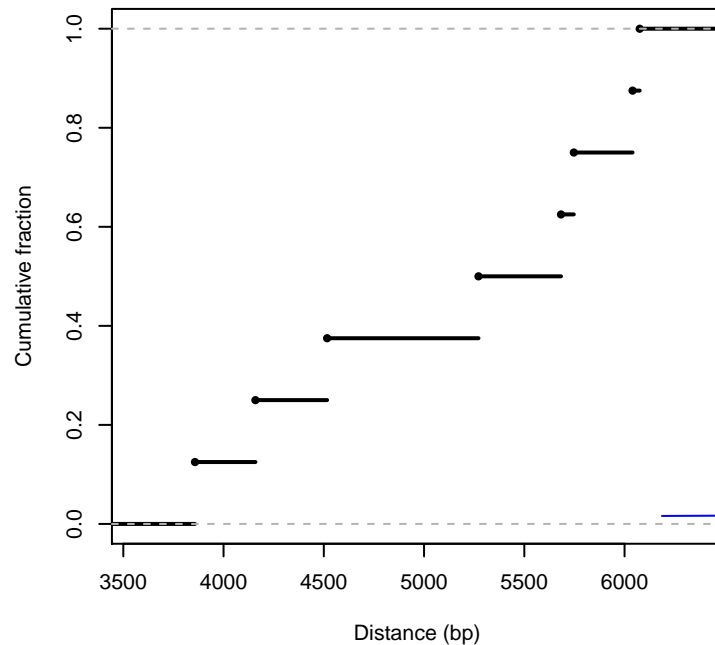
Query population : 48  
Reference population : 3  
Relative Ks p-value : 5.77316e-13  
Relative ecdf deviation area : 0.122224  
Relative ecdf area correlation : 0.489179  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0023778  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 14.0268



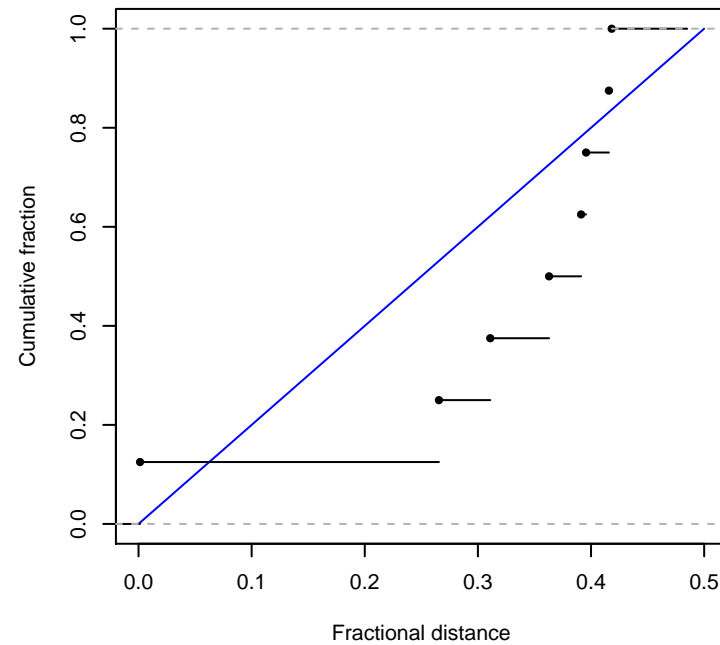
# pcontig\_146

Query population : 8  
Reference population : 4  
Relative Ks p-value : 0.105229  
Relative ecdf deviation area : 0.0914737  
Relative ecdf area correlation : -0.280839  
Relative ecdf deviation area p-value : 0.11  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0199763  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

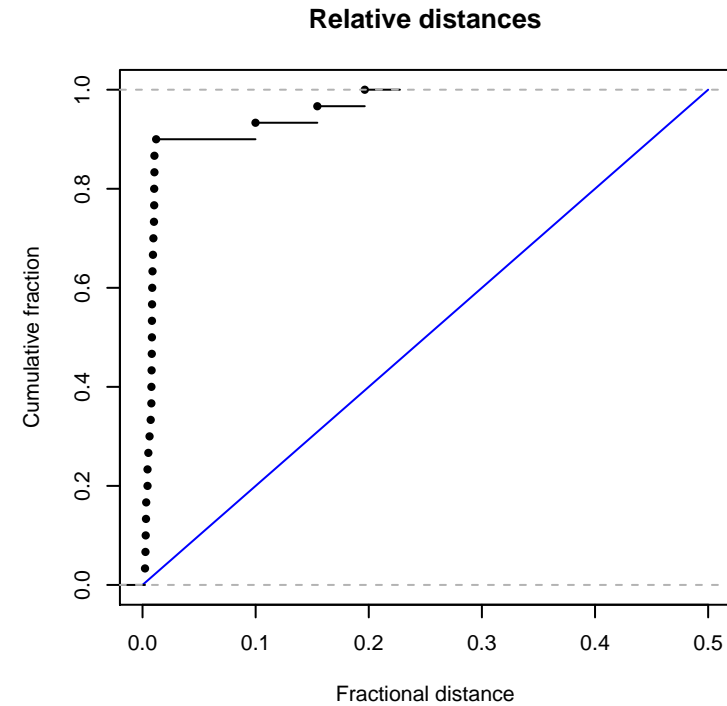
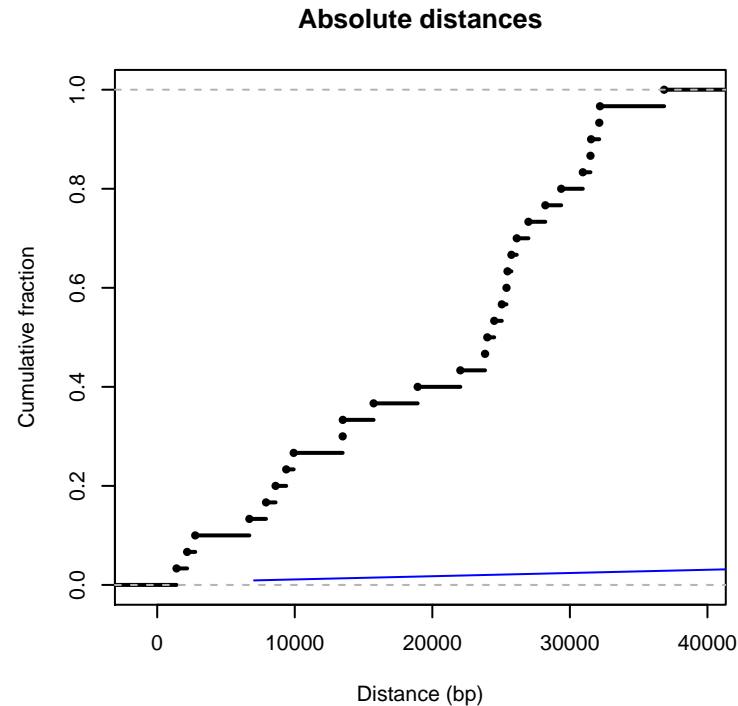


Relative distances



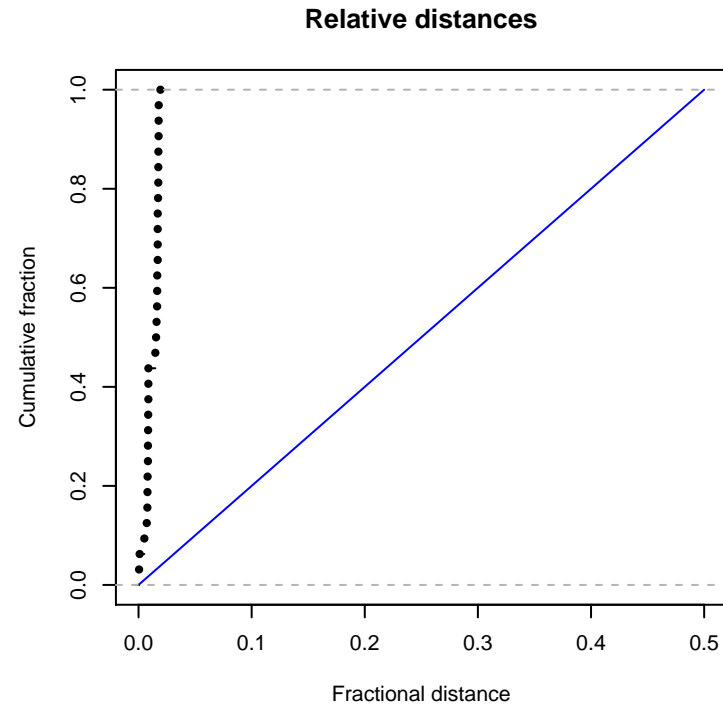
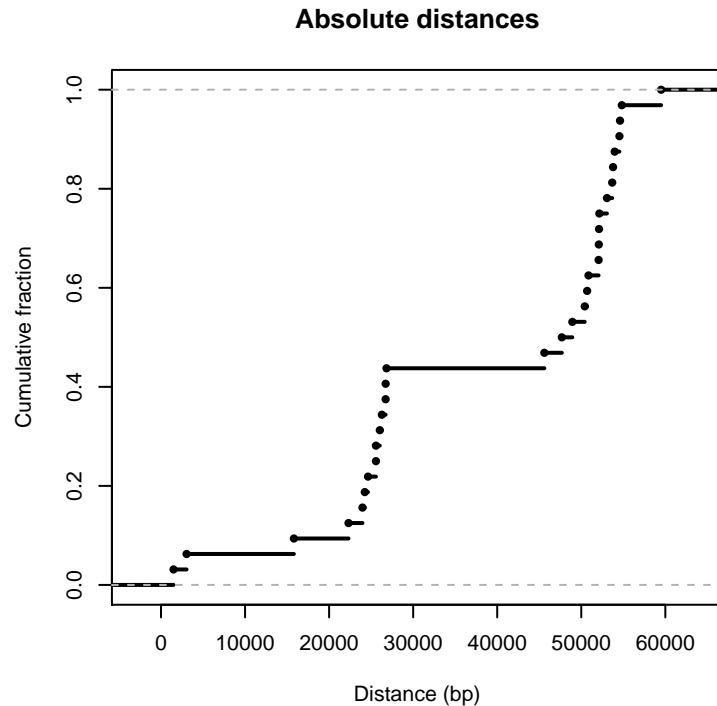
# pcontig\_147

Query population : 30  
Reference population : 2  
Relative Ks p-value : 1.22125e-15  
Relative ecdf deviation area : 0.228596  
Relative ecdf area correlation : 0.913473  
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 : 2.01375e-06  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 33.6311



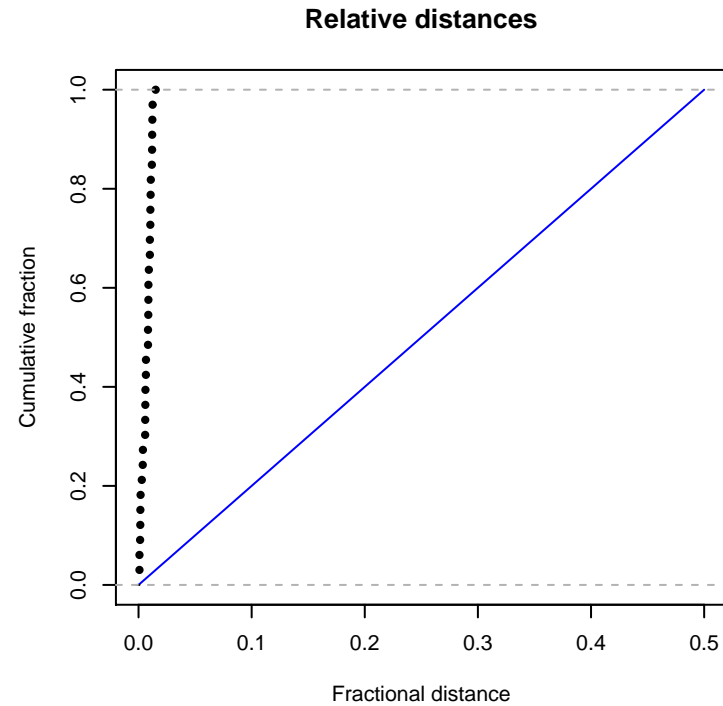
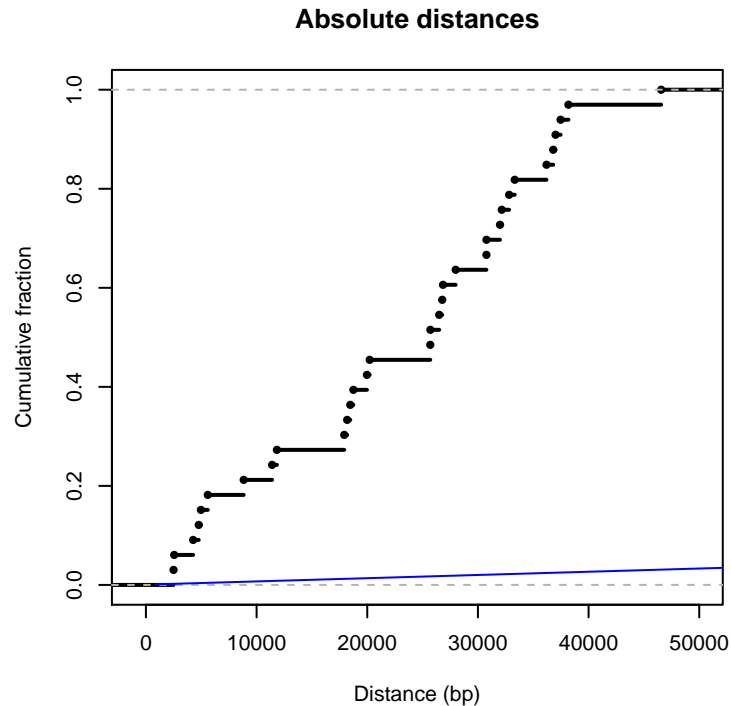
# pcontig\_148

Query population : 32  
Reference population : 1  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.237426  
Relative ecdf area correlation : 0.949568  
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 : 0.0155645  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_157

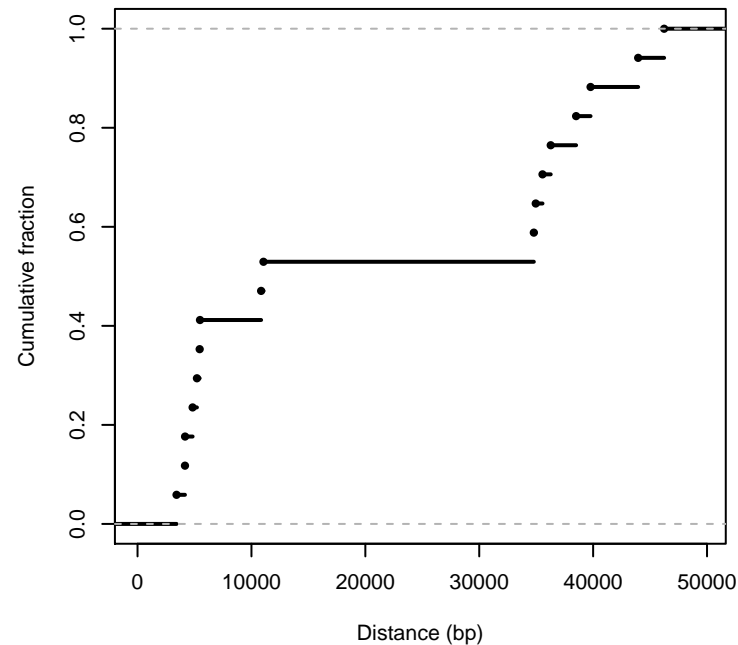
Query population : 33  
Reference population : 2  
Relative Ks p-value : 6.66134e-16  
Relative ecdf deviation area : 0.2428  
Relative ecdf area correlation : 0.970247  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.04  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0271707  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



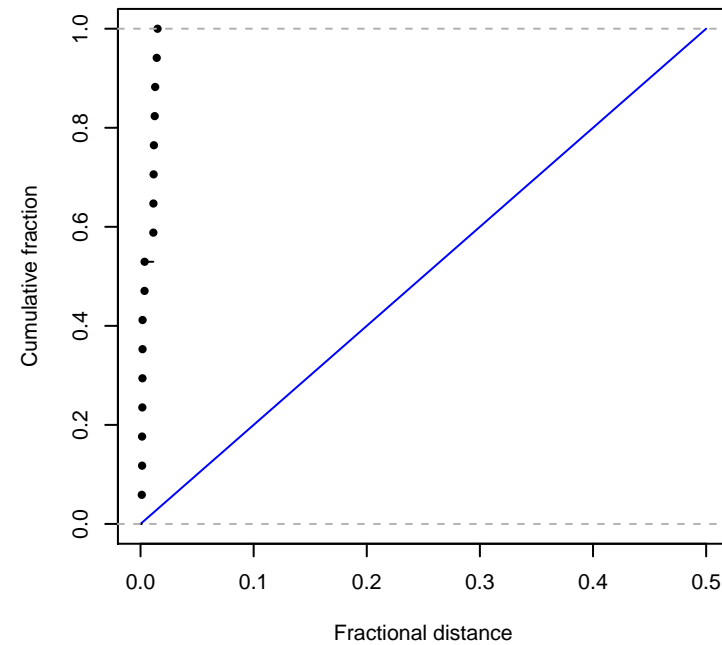
# pcontig\_166

Query population : 17  
Reference population : 1  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.243078  
Relative ecdf area correlation : 0.972073  
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 : 0.00759619  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

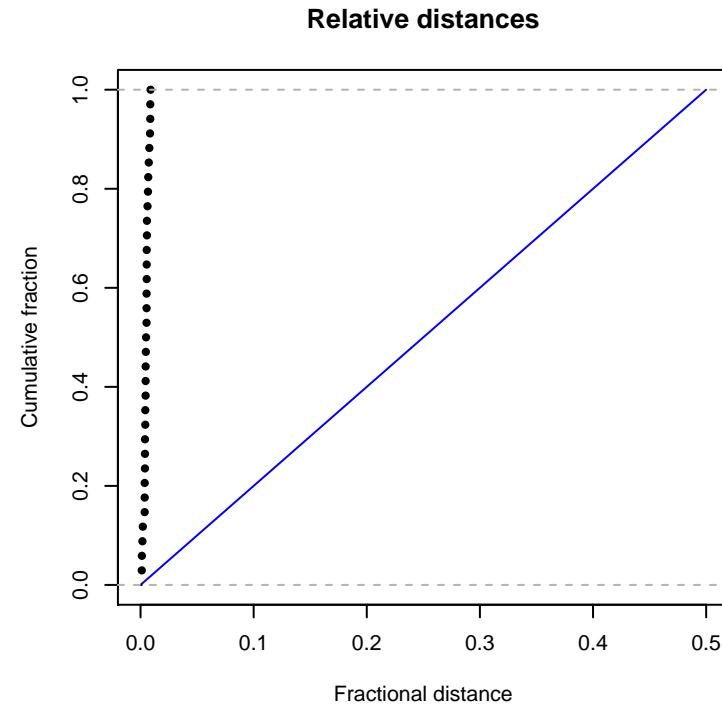
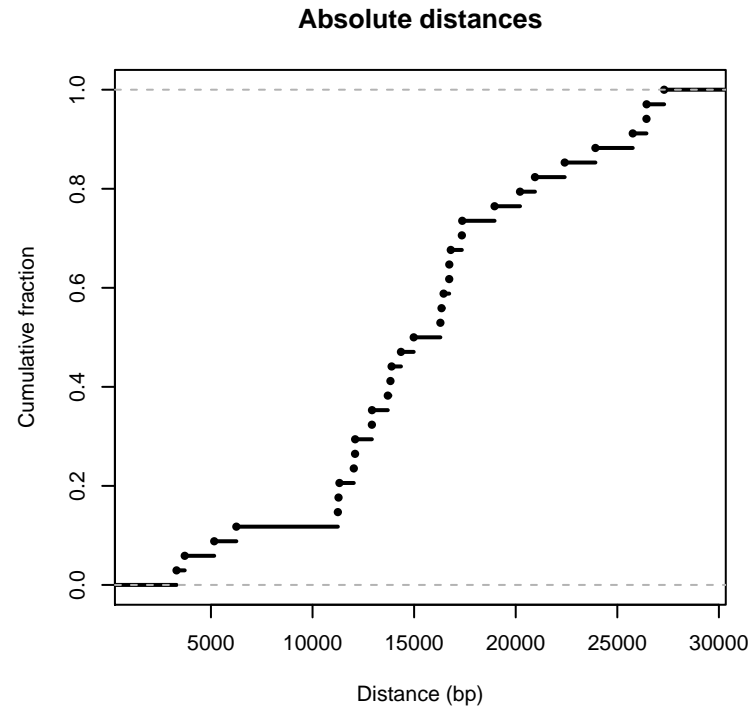


Relative distances



# pcontig\_174

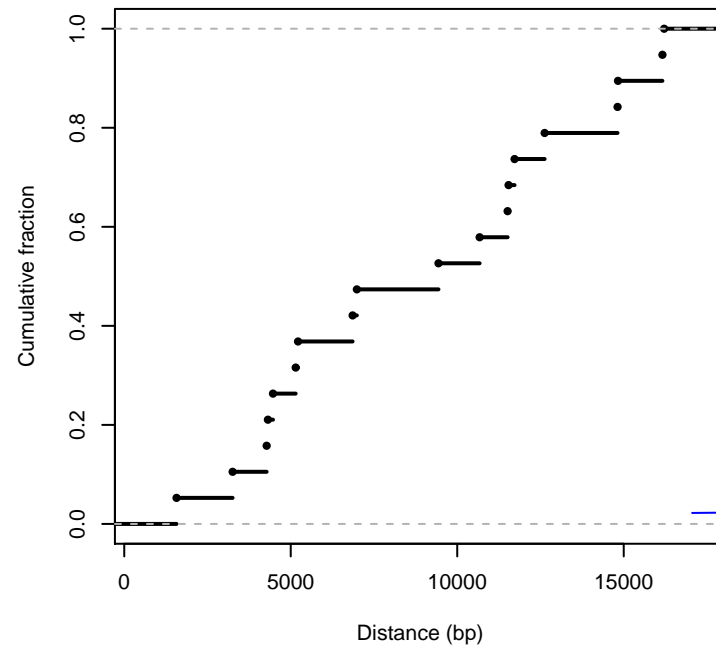
Query population : 34  
Reference population : 1  
Relative Ks p-value : 2.22045e-16  
Relative ecdf deviation area : 0.24508  
Relative ecdf area correlation : 0.979648  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.04  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0181827  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



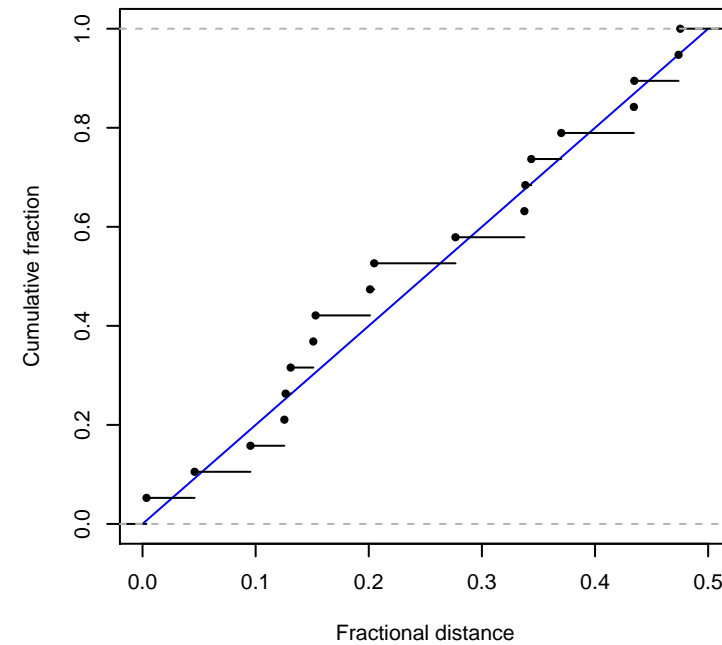
# pcontig\_179

Query population : 19  
Reference population : 2  
Relative Ks p-value : 0.931769  
Relative ecdf deviation area : 0.0196673  
Relative ecdf area correlation : 0.00583991  
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 : 0.011536  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances



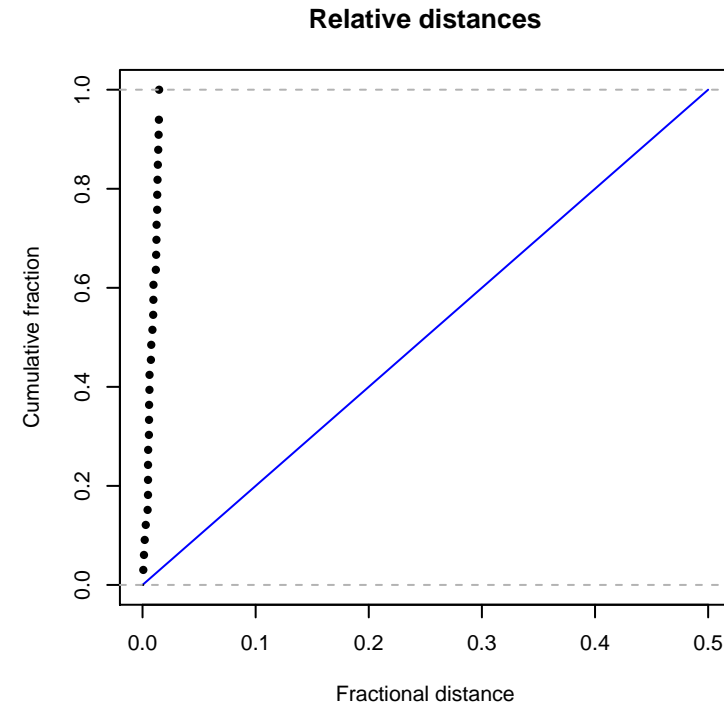
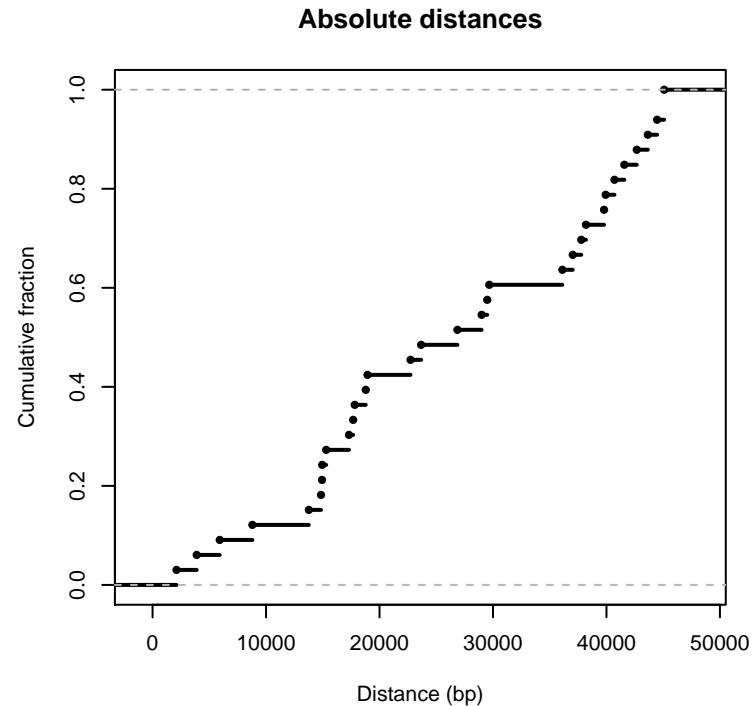
Relative distances





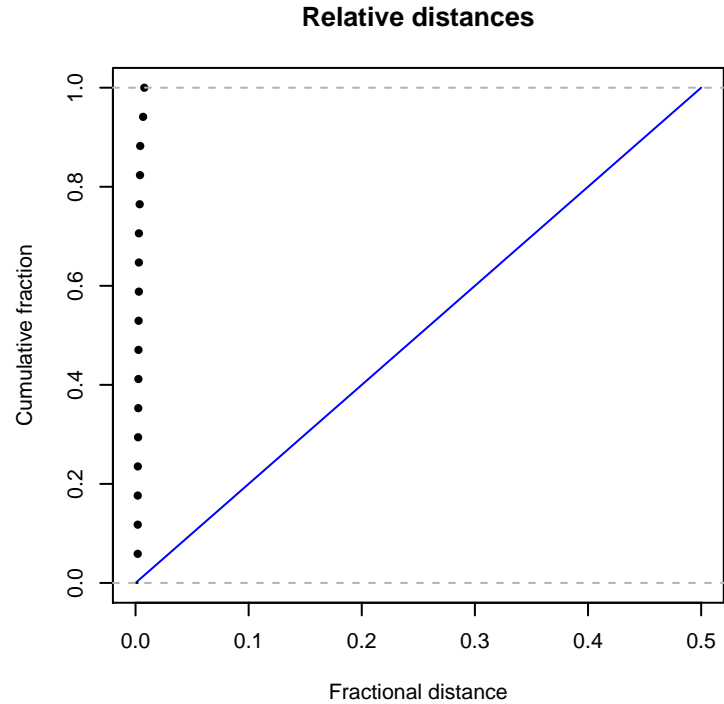
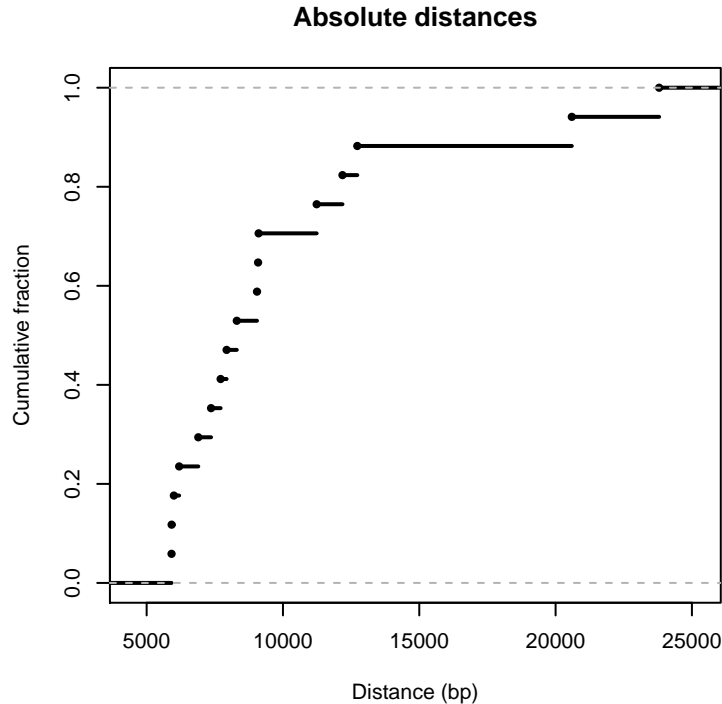
# pcontig\_181

Query population : 33  
Reference population : 1  
Relative Ks p-value : 6.66134e-16  
Relative ecdf deviation area : 0.241462  
Relative ecdf area correlation : 0.965344  
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 : 0.00772457  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



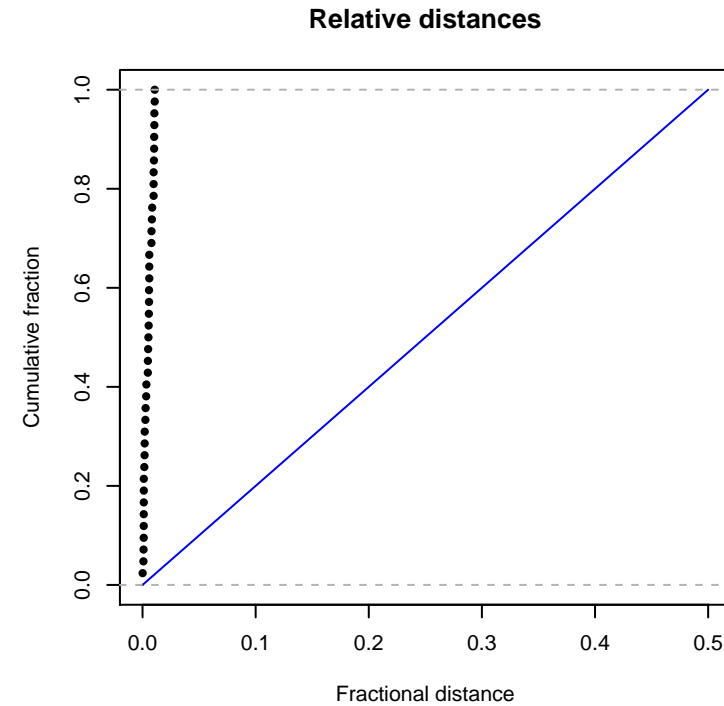
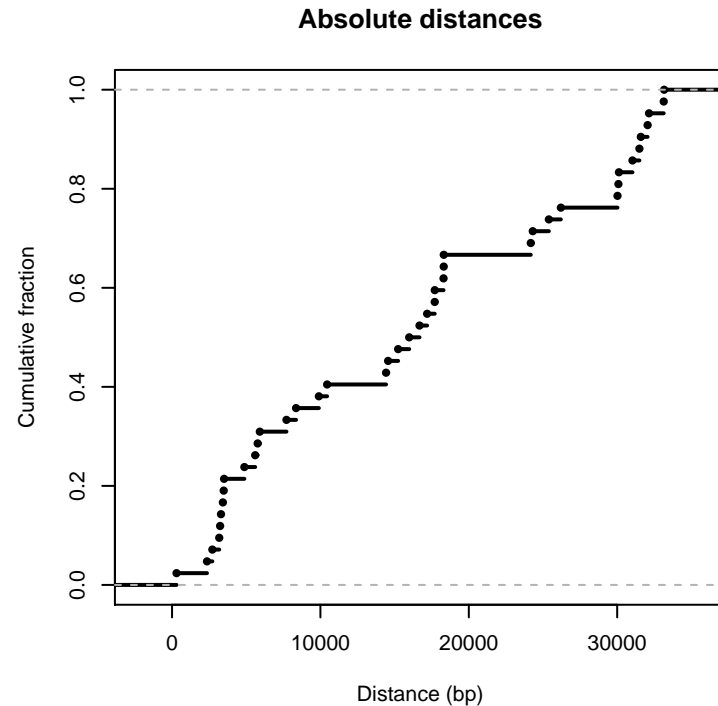
pcontig\_186

Query population : 17  
Reference population : 1  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.246846  
Relative ecdf area correlation : 0.986982  
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 : 0.0118062  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



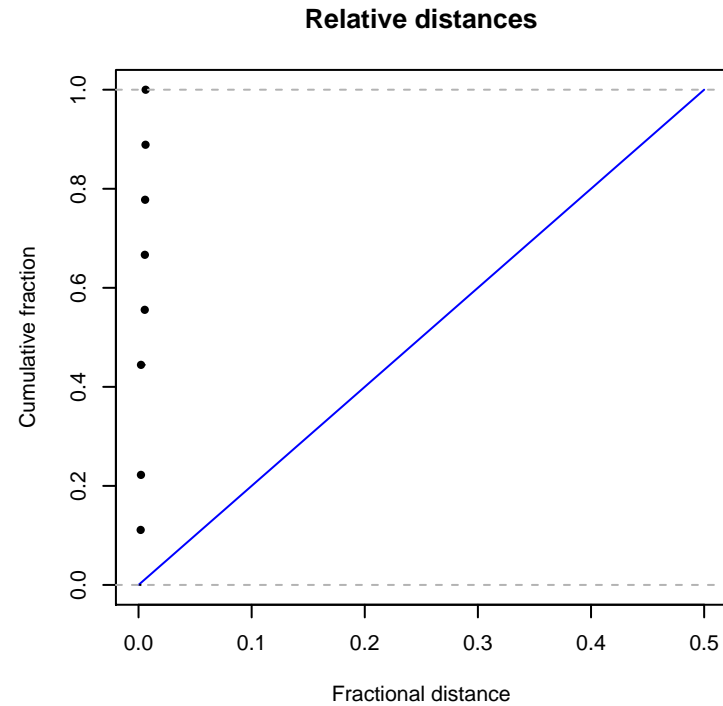
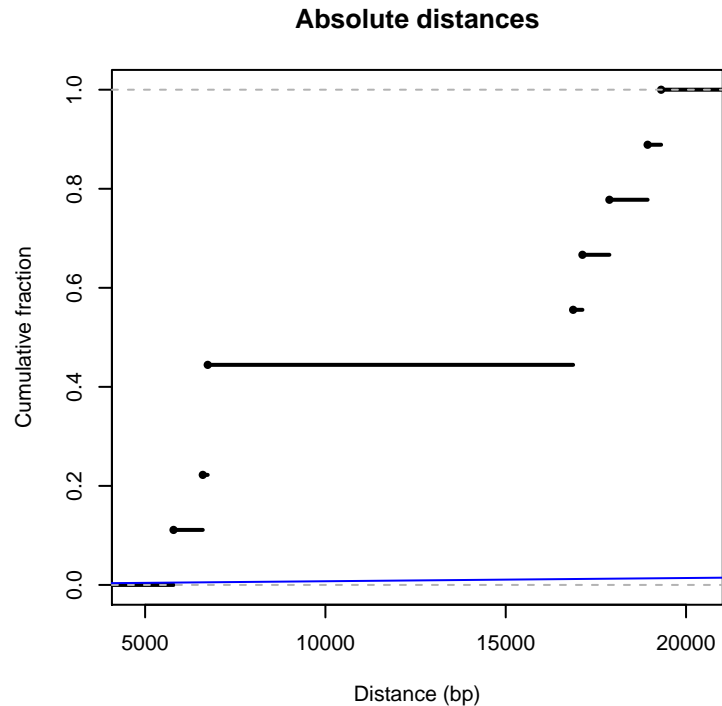
# pcontig\_187

Query population : 42  
Reference population : 1  
Relative Ks p-value : 2.22045e-16  
Relative ecdf deviation area : 0.244557  
Relative ecdf area correlation : 0.978818  
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 : 0.000617414  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 27.7978



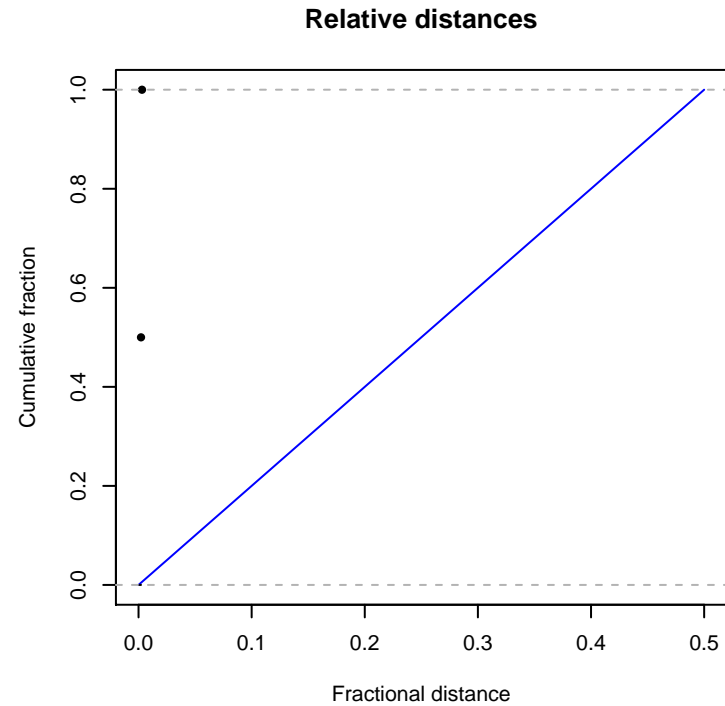
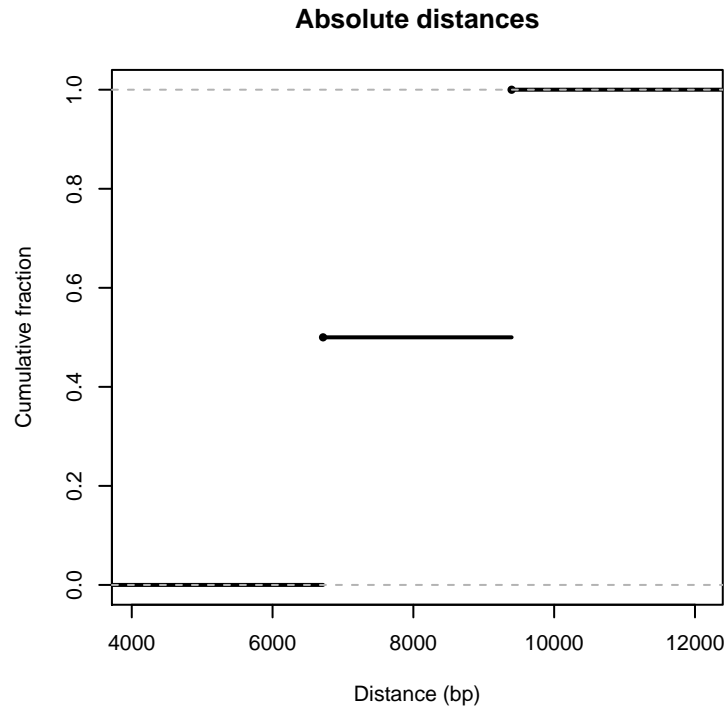
# pcontig\_188

Query population : 9  
Reference population : 2  
Relative Ks p-value : 4.44089e-16  
Relative ecdf deviation area : 0.245987  
Relative ecdf area correlation : 0.98321  
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 : 0.0159794  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



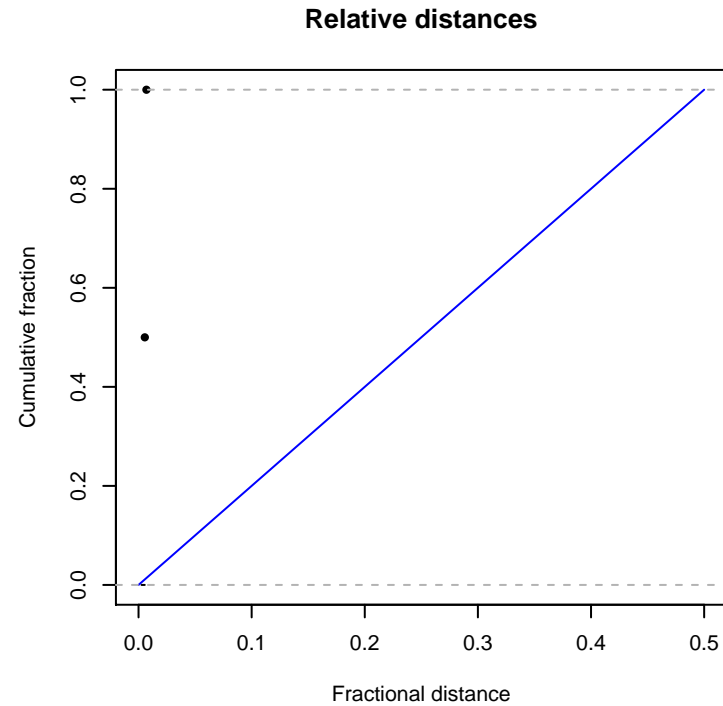
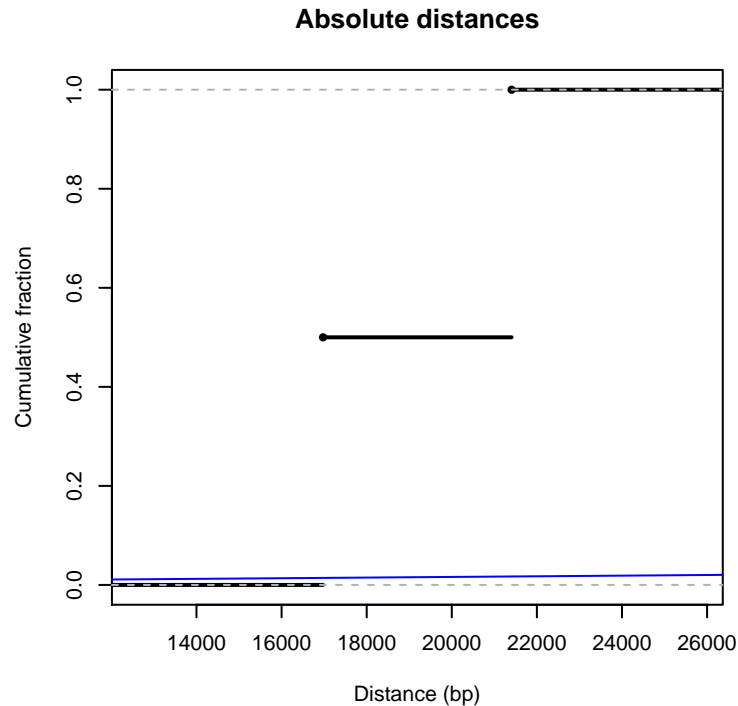
# pcontig\_189

Query population : 2  
Reference population : 1  
Relative Ks p-value : 7.47894e-05  
Relative ecdf deviation area : 0.246924  
Relative ecdf area correlation : 0.989513  
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 : 0.00399421  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_203

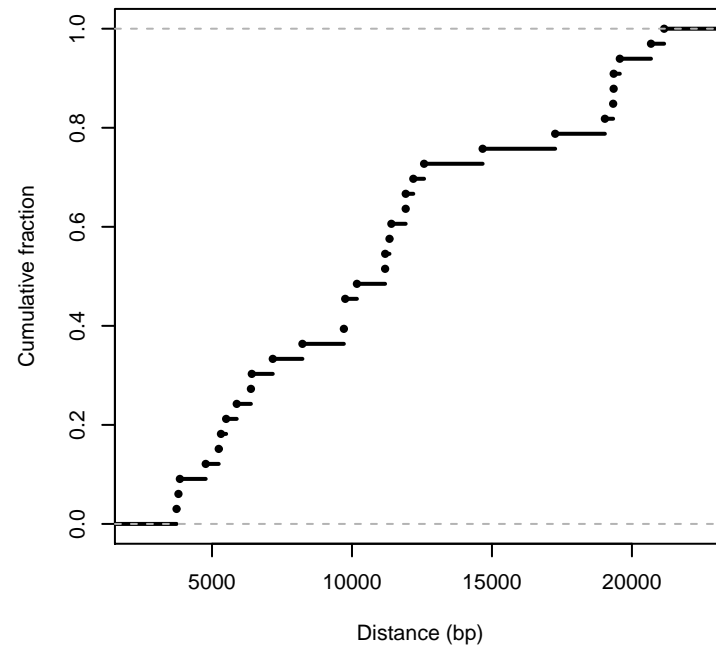
Query population : 2  
Reference population : 2  
Relative Ks p-value : 0.000390672  
Relative ecdf deviation area : 0.24322  
Relative ecdf area correlation : 0.974941  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00195097  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



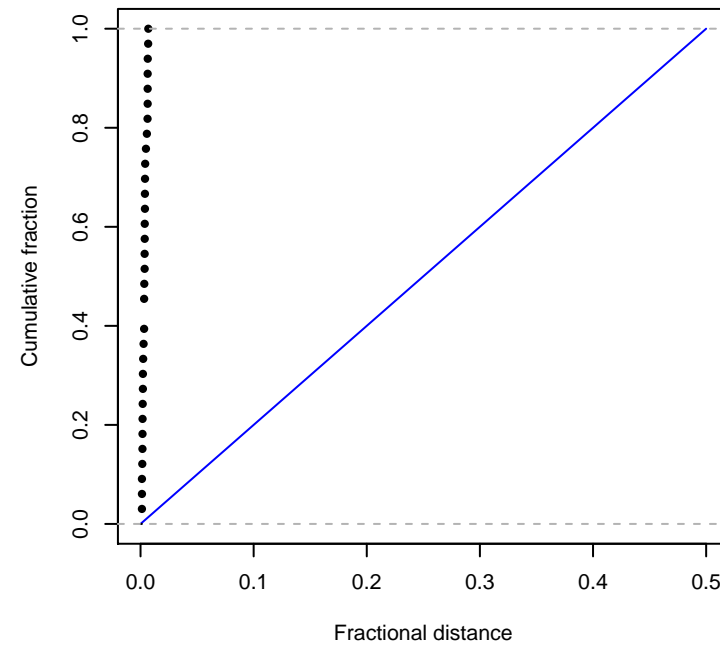
# pcontig\_218

Query population : 33  
Reference population : 1  
Relative Ks p-value : 6.66134e-16  
Relative ecdf deviation area : 0.246548  
Relative ecdf area correlation : 0.985412  
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 : 0.0224439  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances



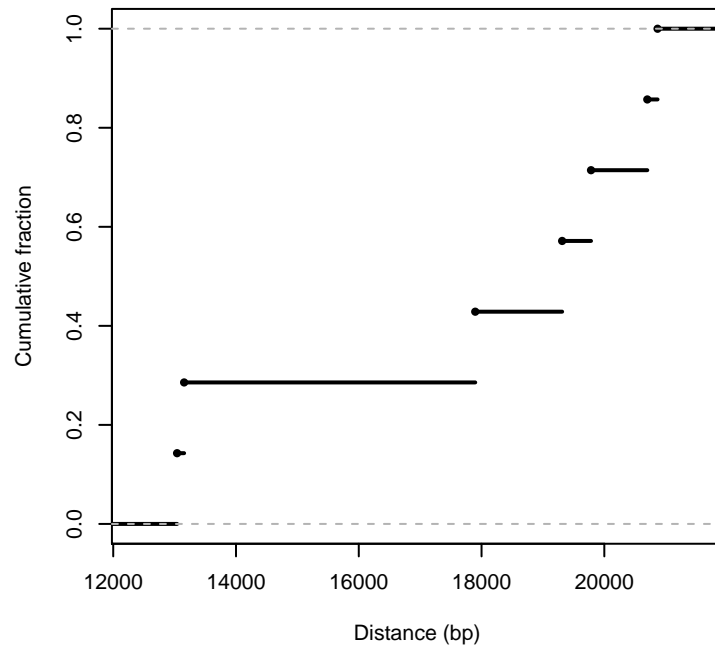
Relative distances



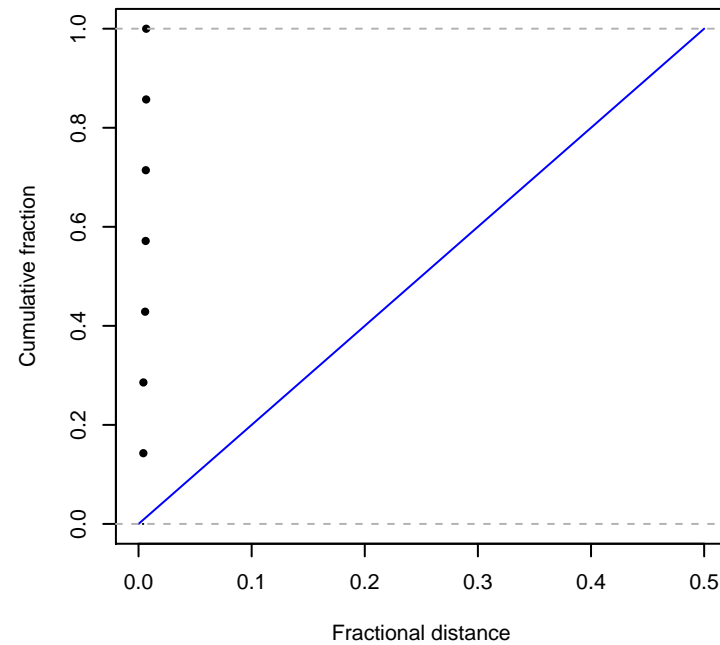
# pcontig\_233

Query population : 7  
Reference population : 1  
Relative Ks p-value : 1.70752e-13  
Relative ecdf deviation area : 0.244619  
Relative ecdf area correlation : 0.9768  
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 : 0.00900189  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances



Relative distances





# All Chromosomes

Query population : 47897  
Reference population : 1444  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0311201  
Relative ecdf area correlation : 0.124471  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 2.32613e-41  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.456497

