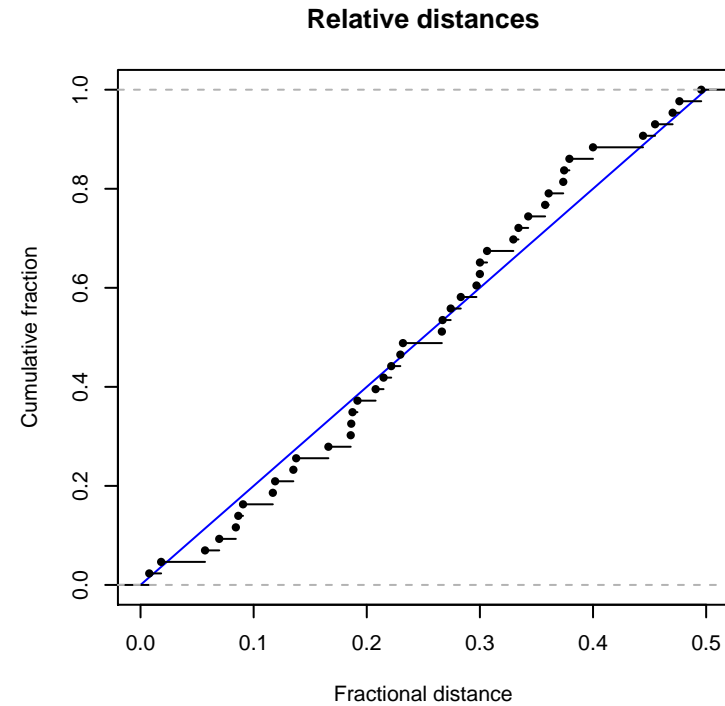
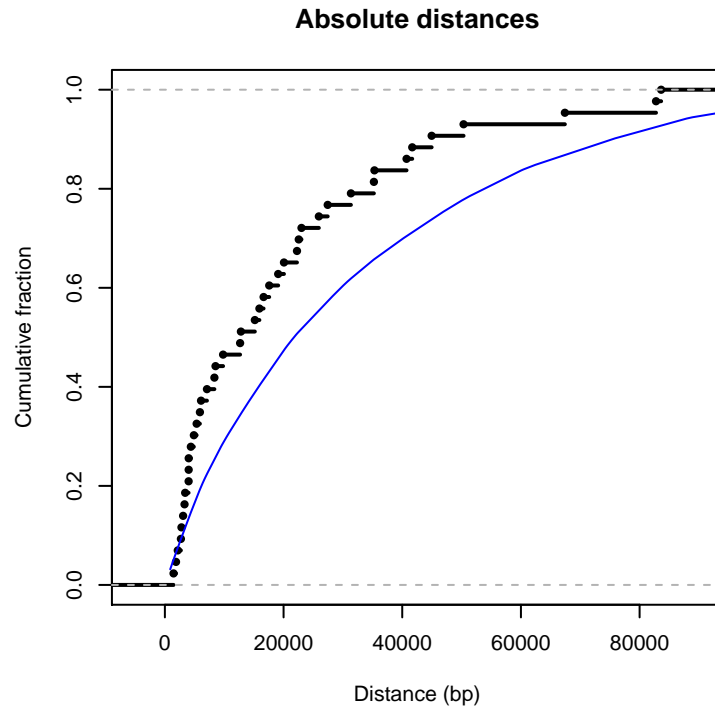


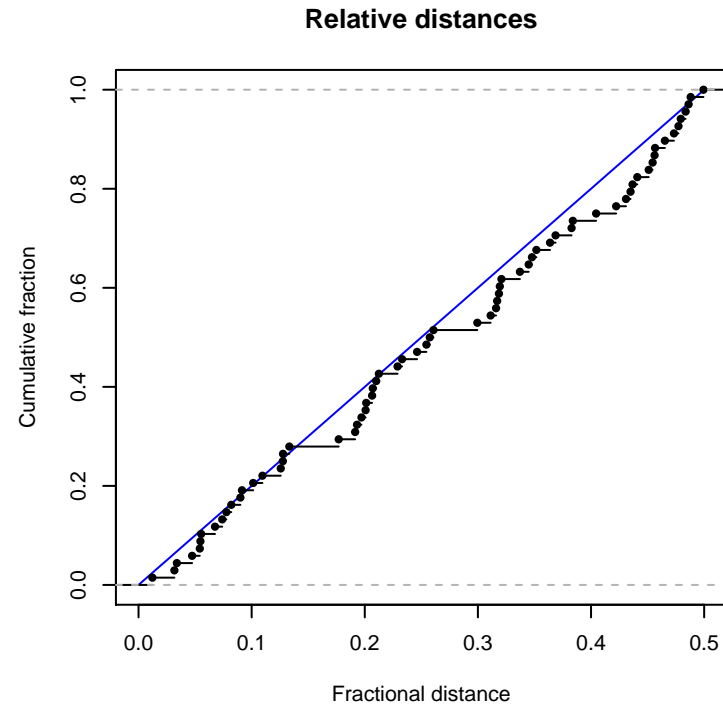
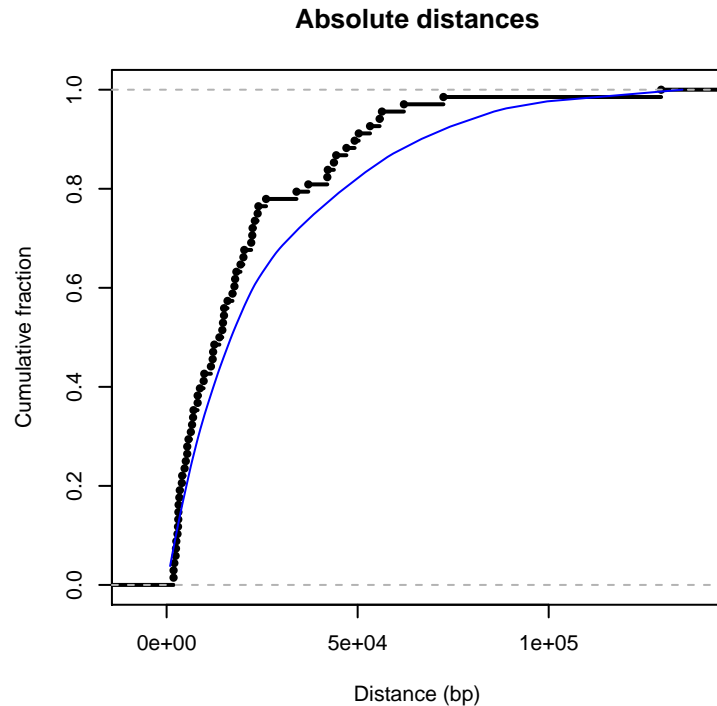
# pcontig\_000

Query population : 43  
Reference population : 53  
Relative Ks p-value : 0.721531  
Relative ecdf deviation area : 0.0171865  
Relative ecdf area correlation : -0.00774837  
Relative ecdf deviation area p-value : 0.68  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.08  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.191496  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



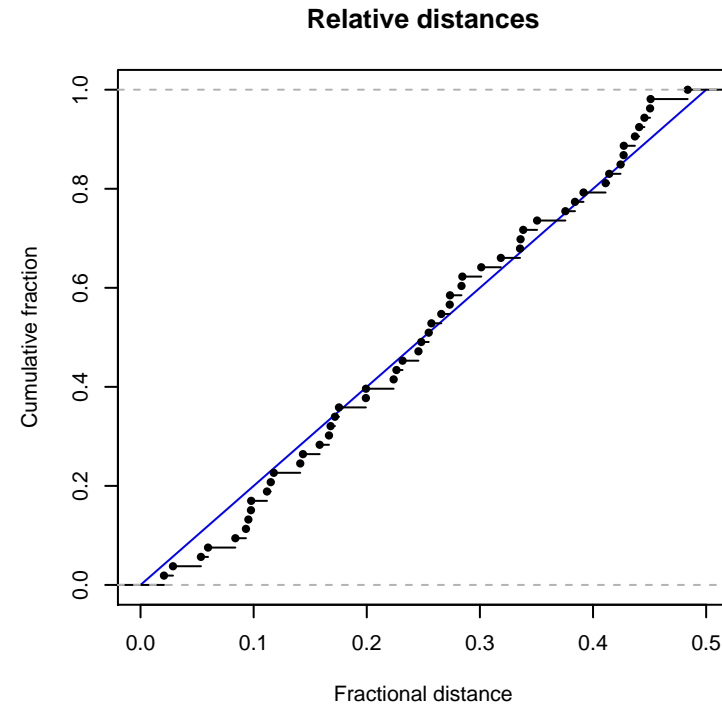
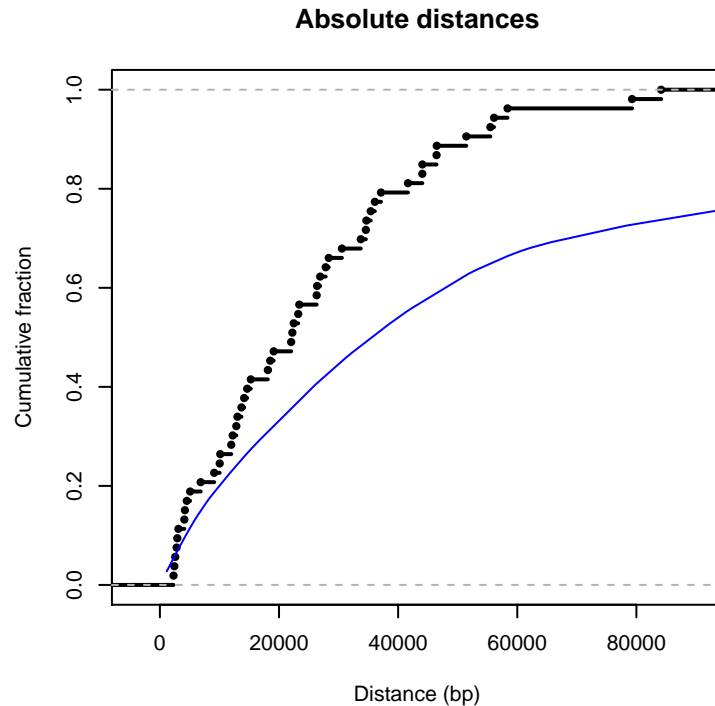
# pcontig\_001

Query population : 68  
Reference population : 63  
Relative Ks p-value : 0.511685  
Relative ecdf deviation area : 0.0191922  
Relative ecdf area correlation : -0.076421  
Relative ecdf deviation area p-value : 0.3  
Scaled Absolute min. distance p-value : 0.03  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0501619  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



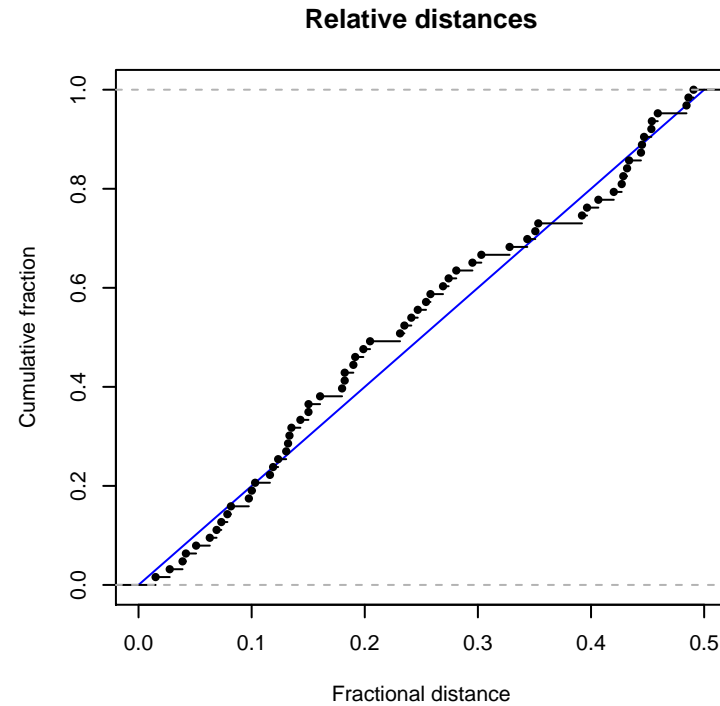
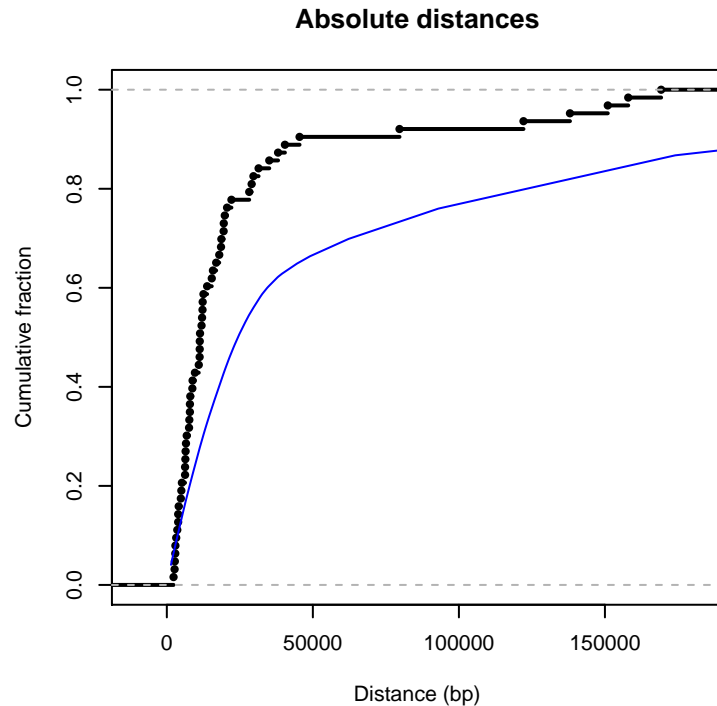
# pcontig\_002

Query population : 53  
Reference population : 36  
Relative Ks p-value : 0.723921  
Relative ecdf deviation area : 0.0150245  
Relative ecdf area correlation : -0.0196343  
Relative ecdf deviation area p-value : 0.68  
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 : 0.100336  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



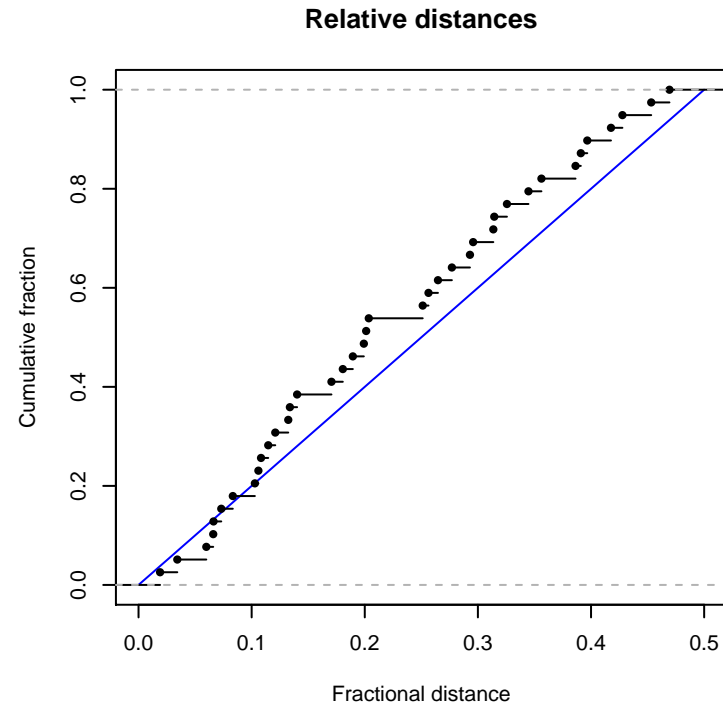
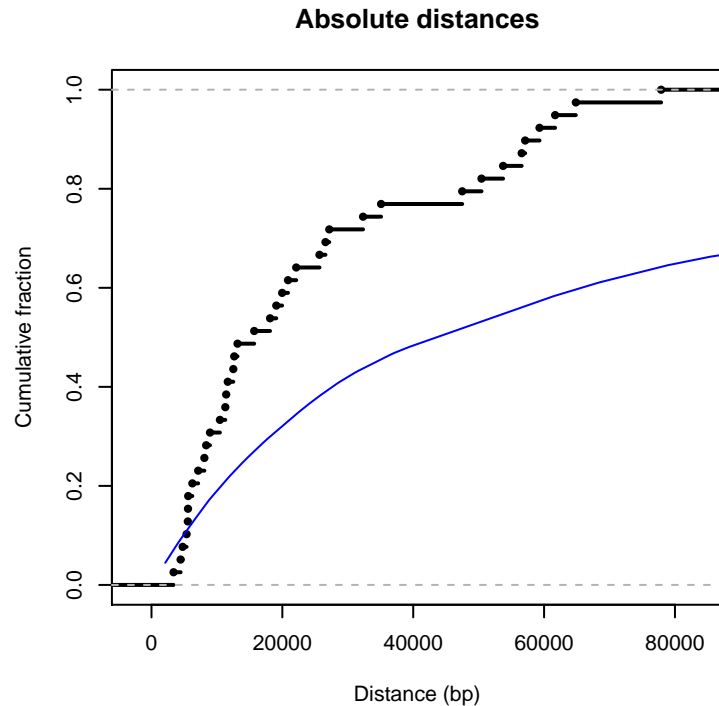
# pcontig\_003

Query population : 63  
Reference population : 43  
Relative Ks p-value : 0.750801  
Relative ecdf deviation area : 0.0164456  
Relative ecdf area correlation : 0.0204411  
Relative ecdf deviation area p-value : 0.57  
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 : 0.110531  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



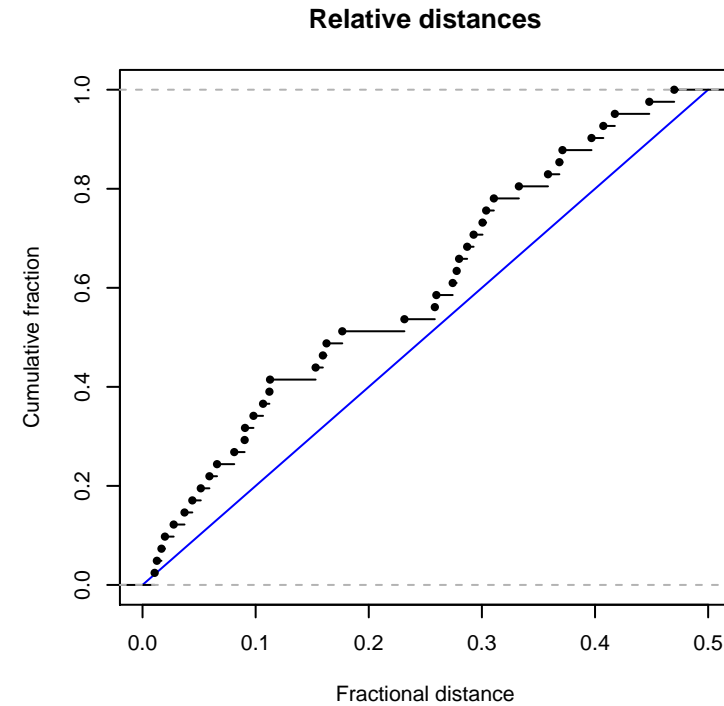
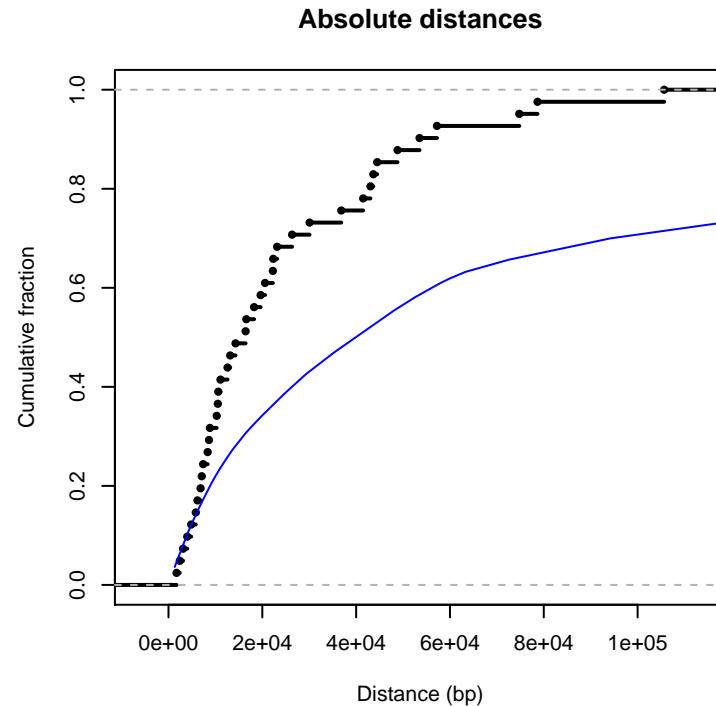
# pcontig\_004

Query population : 39  
Reference population : 32  
Relative Ks p-value : 0.471539  
Relative ecdf deviation area : 0.0308832  
Relative ecdf area correlation : 0.103577  
Relative ecdf deviation area p-value : 0.26  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.14  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.357182  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



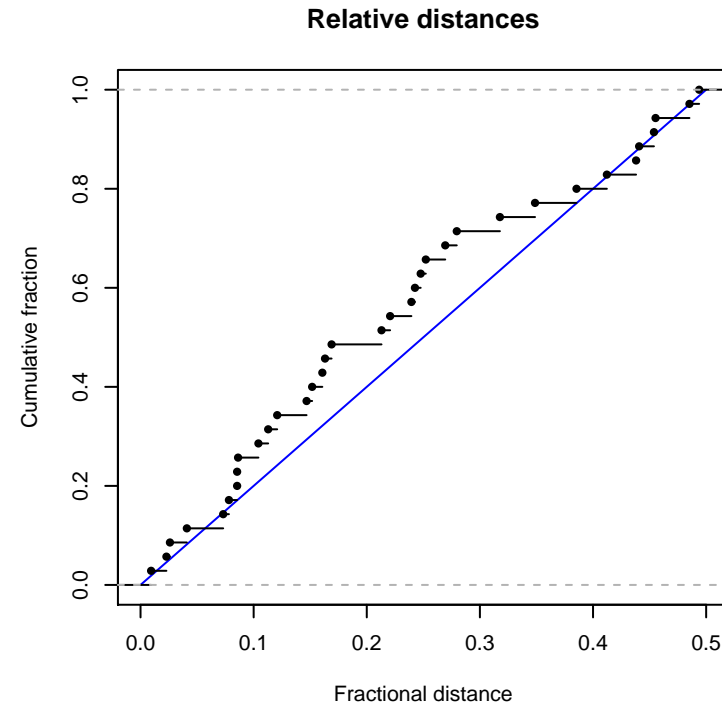
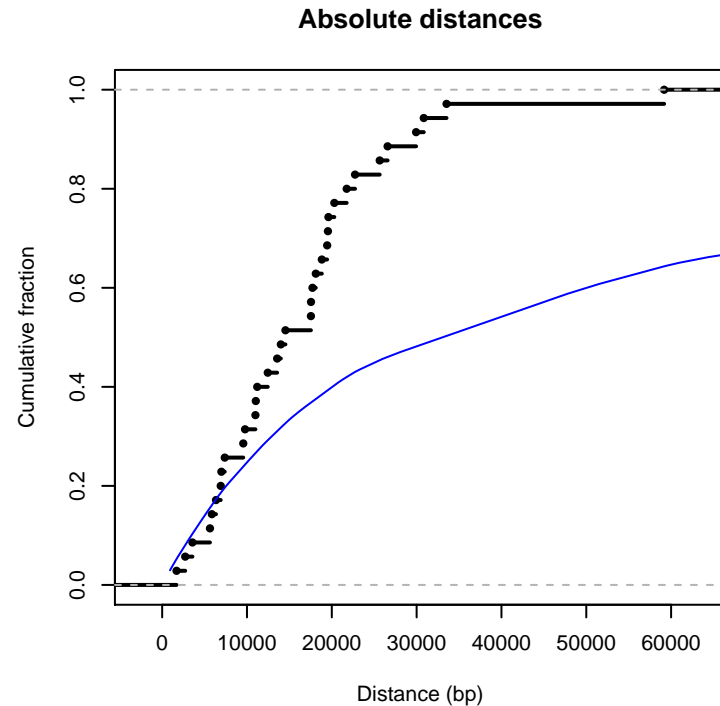
# pcontig\_005

Query population : 41  
Reference population : 41  
Relative Ks p-value : 0.0929149  
Relative ecdf deviation area : 0.0469071  
Relative ecdf area correlation : 0.186855  
Relative ecdf deviation area p-value : 0.06000000000000001  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.15  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.255959  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_006

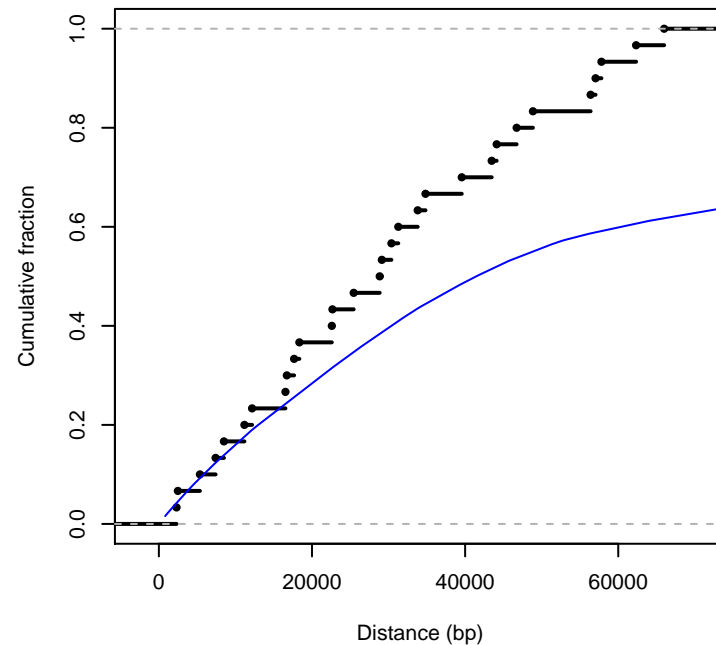
Query population : 35  
Reference population : 48  
Relative Ks p-value : 0.333378  
Relative ecdf deviation area : 0.0299861  
Relative ecdf area correlation : 0.104915  
Relative ecdf deviation area p-value : 0.28  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.17  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.269833  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



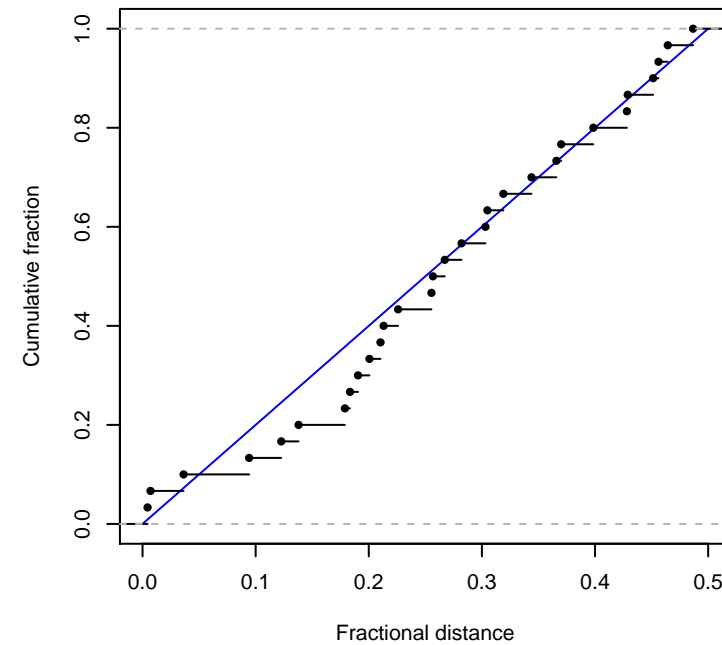
# pcontig\_007

Query population : 30  
Reference population : 29  
Relative Ks p-value : 0.401973  
Relative ecdf deviation area : 0.0207834  
Relative ecdf area correlation : -0.0649731  
Relative ecdf deviation area p-value : 0.66  
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 : 0.489626  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances



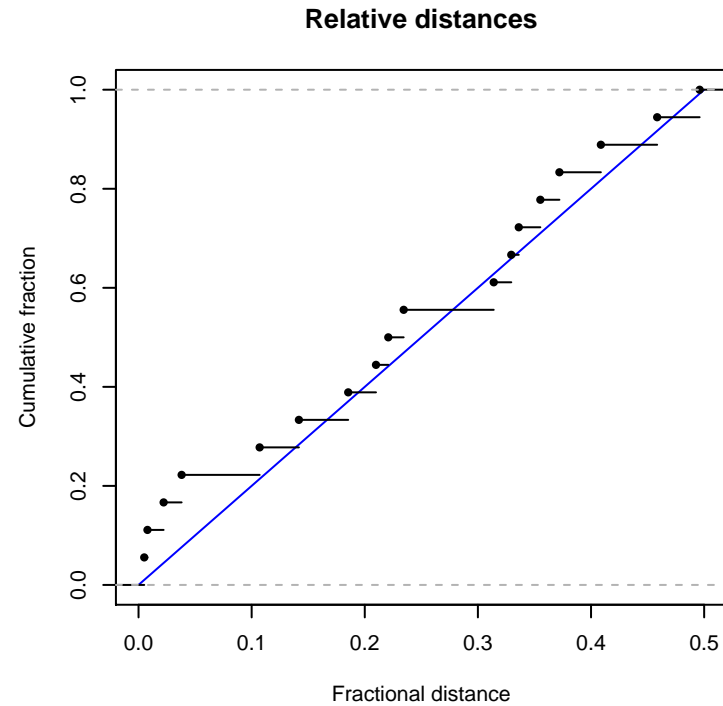
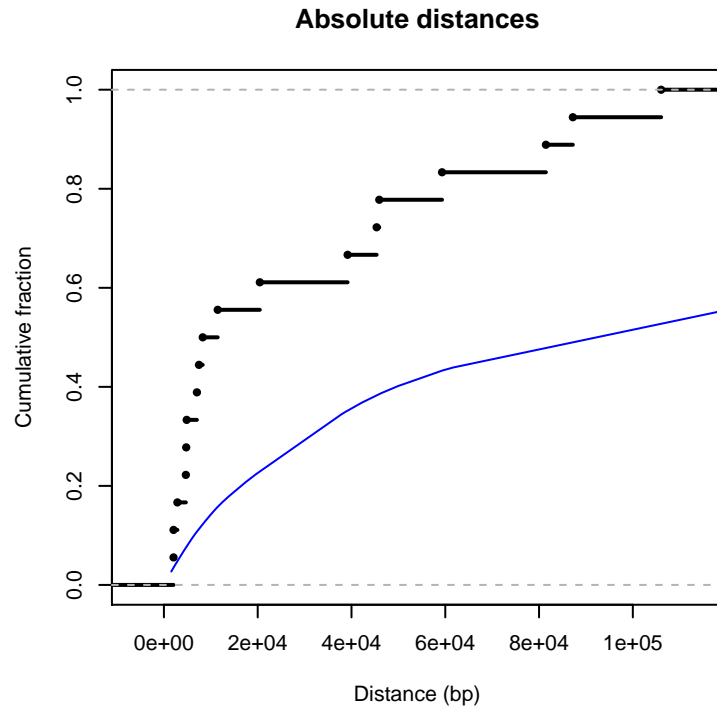
Relative distances





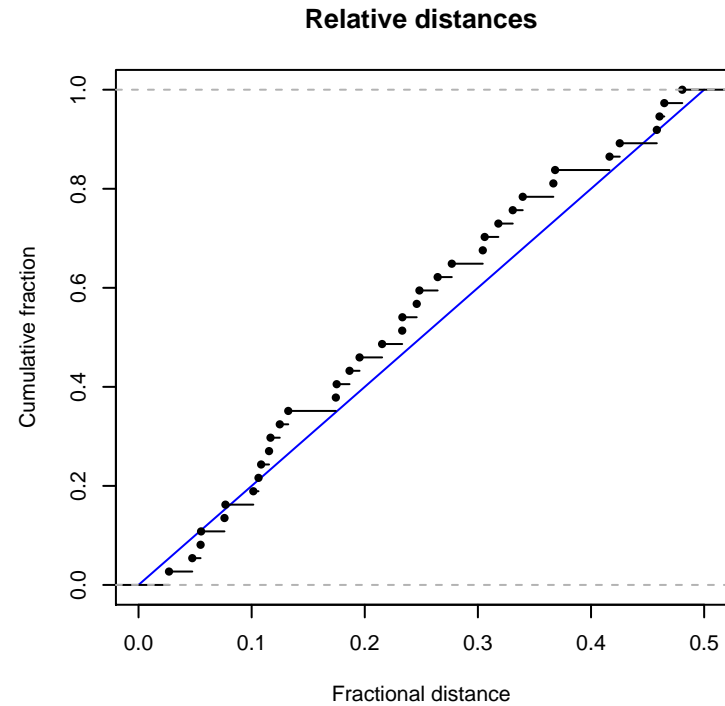
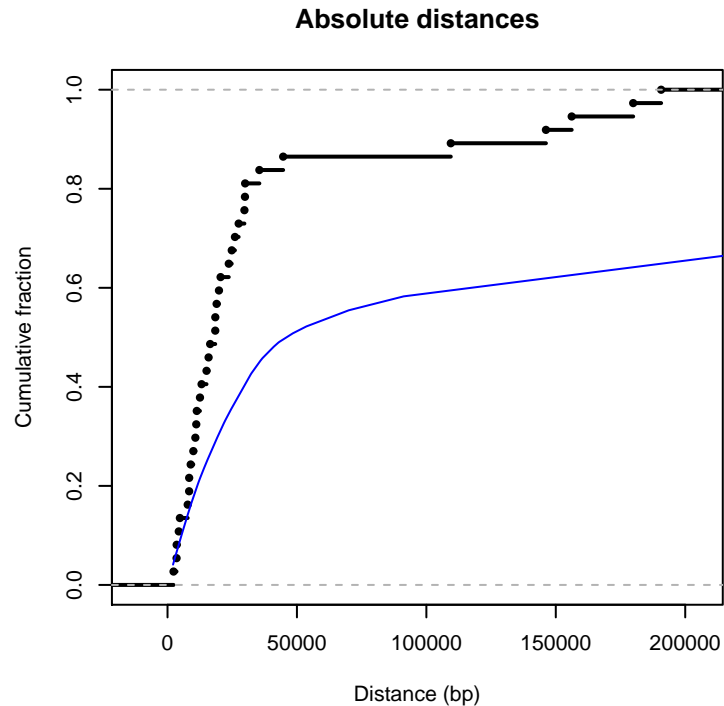
# pcontig\_008

Query population : 18  
Reference population : 26  
Relative Ks p-value : 0.785994  
Relative ecdf deviation area : 0.0208306  
Relative ecdf area correlation : 0.057207  
Relative ecdf deviation area p-value : 0.89  
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 : 0.302652  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



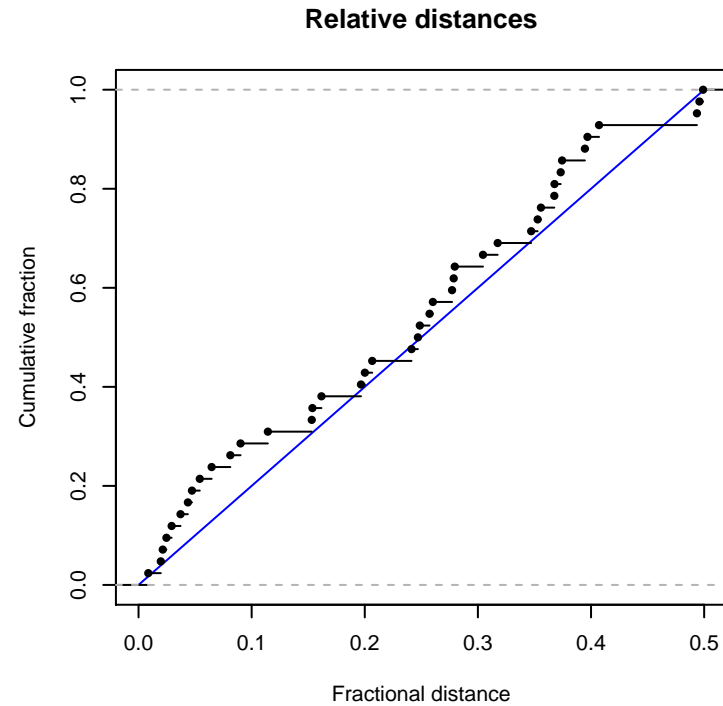
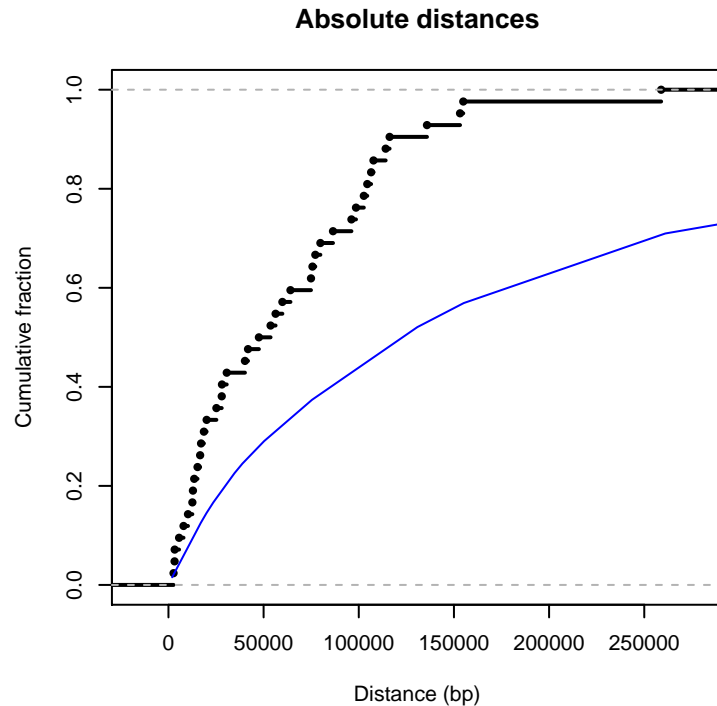
# pcontig\_009

Query population : 37  
Reference population : 29  
Relative Ks p-value : 0.775306  
Relative ecdf deviation area : 0.0231659  
Relative ecdf area correlation : 0.0669144  
Relative ecdf deviation area p-value : 0.55  
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 : 0.345605  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



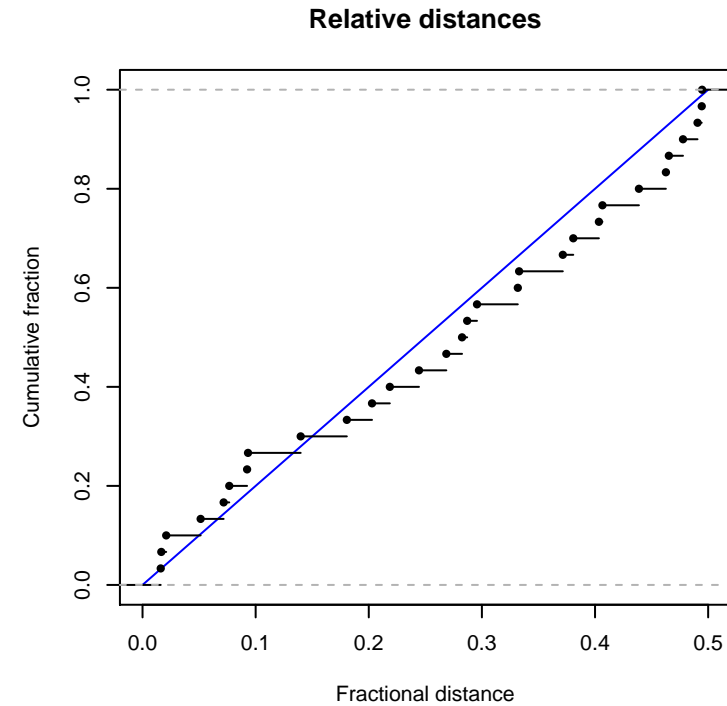
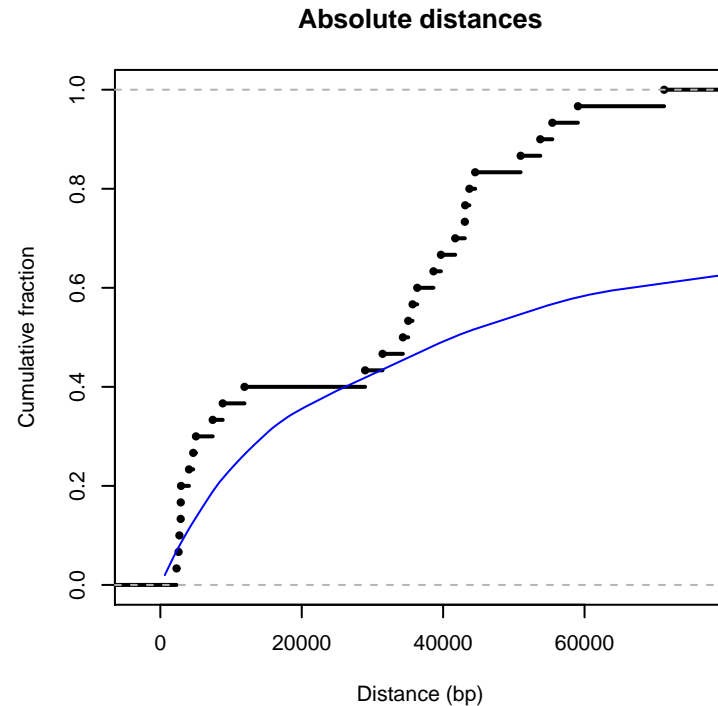
# pcontig\_010

Query population : 42  
Reference population : 12  
Relative Ks p-value : 0.601294  
Relative ecdf deviation area : 0.022552  
Relative ecdf area correlation : 0.0814024  
Relative ecdf deviation area p-value : 0.43  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.32  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.31119  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



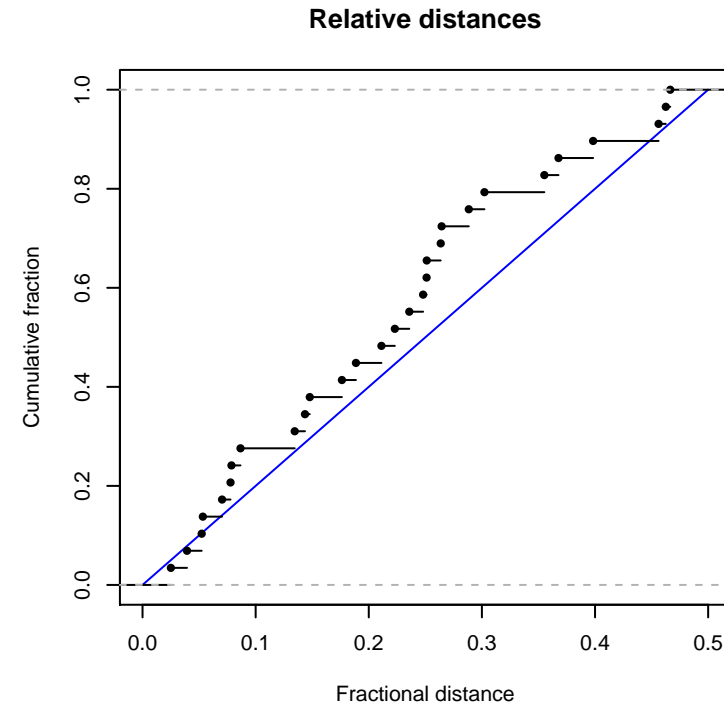
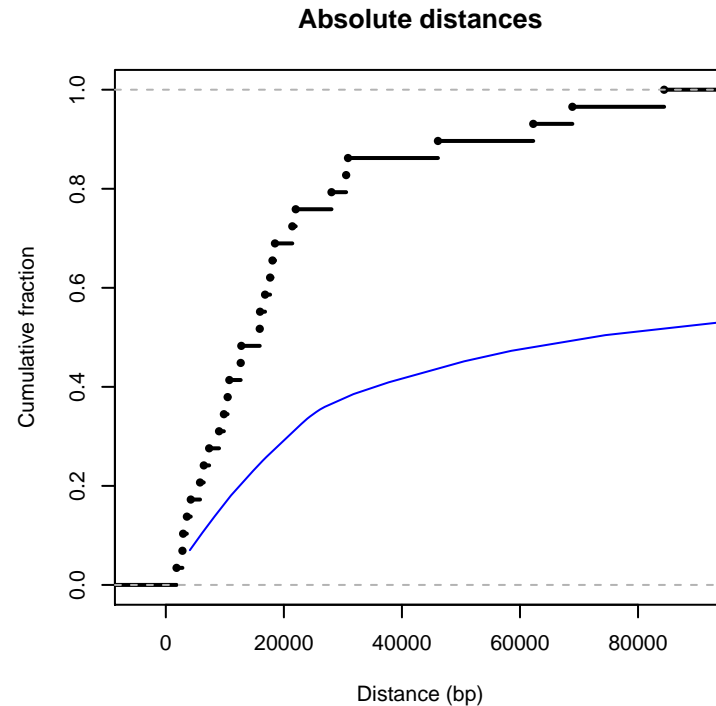
# pcontig\_011

Query population : 30  
Reference population : 47  
Relative Ks p-value : 0.687646  
Relative ecdf deviation area : 0.0272023  
Relative ecdf area correlation : -0.0813327  
Relative ecdf deviation area p-value : 0.52  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.19  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.317668  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



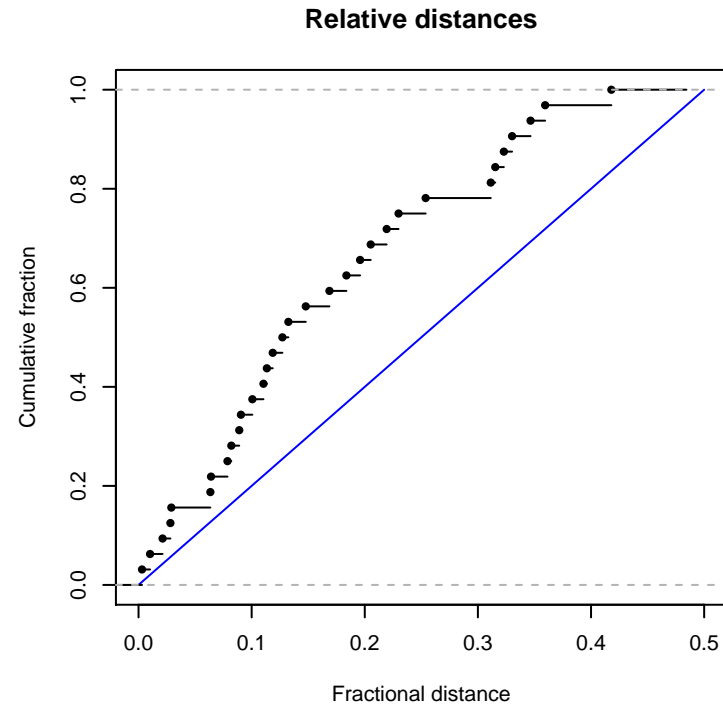
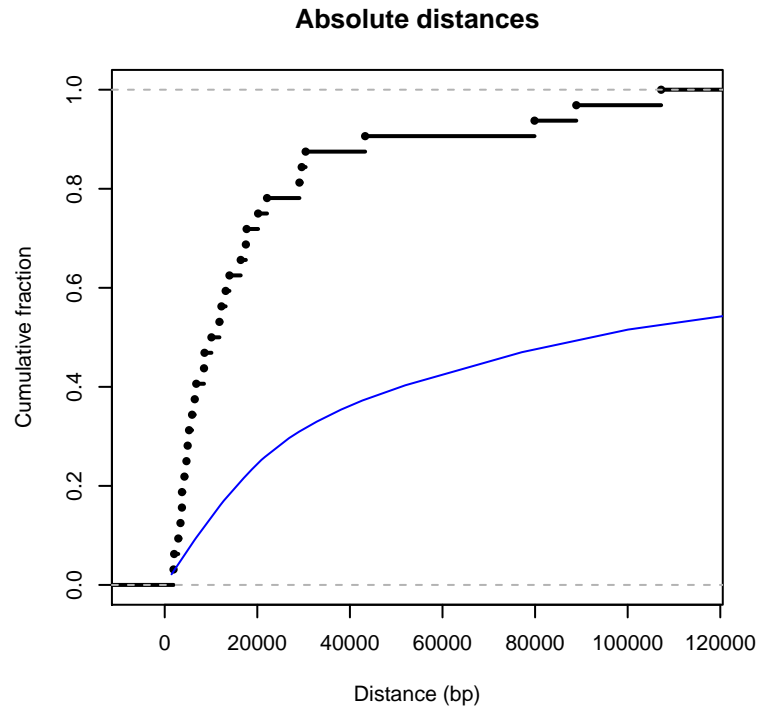
# pcontig\_012

Query population : 29  
Reference population : 26  
Relative Ks p-value : 0.191297  
Relative ecdf deviation area : 0.0349984  
Relative ecdf area correlation : 0.128309  
Relative ecdf deviation area p-value : 0.26  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.5  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.42872  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



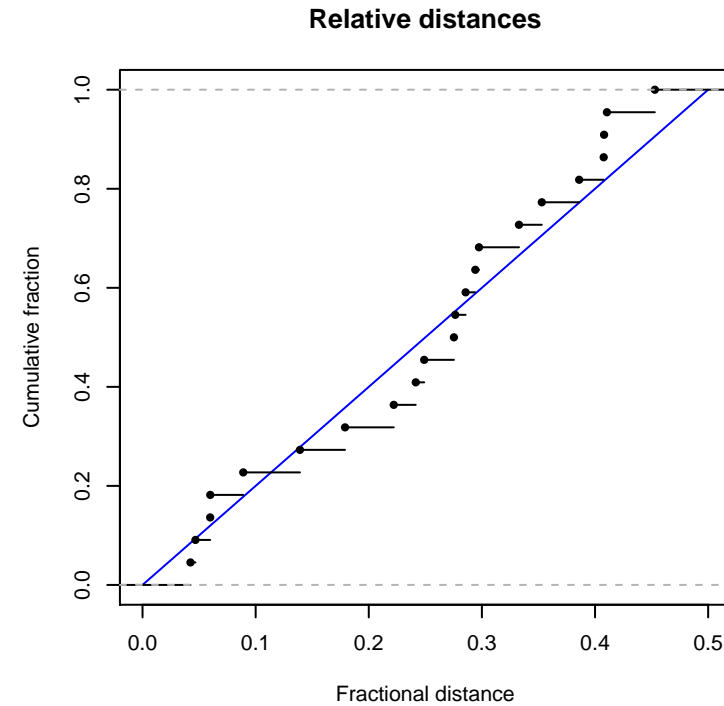
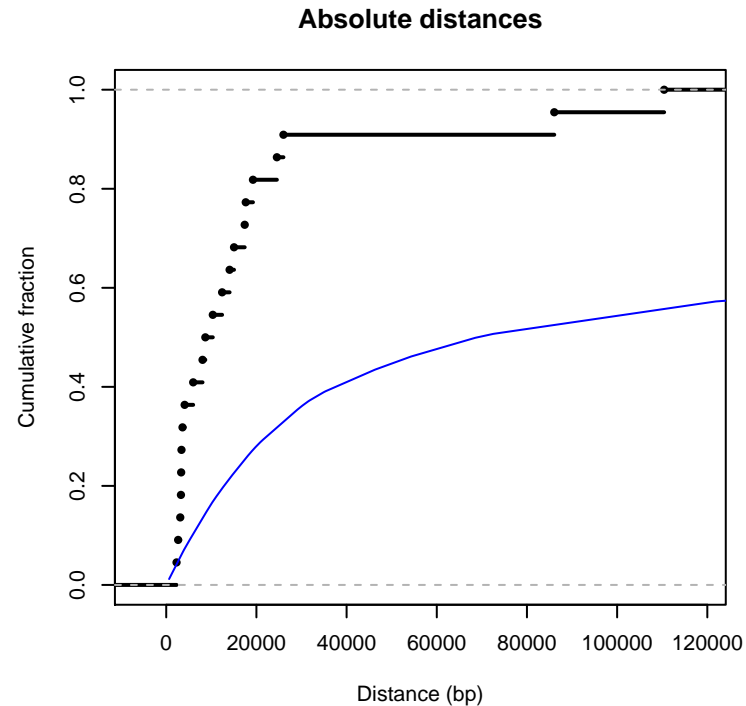
# pcontig\_013

Query population : 32  
Reference population : 22  
Relative Ks p-value : 0.00698716  
Relative ecdf deviation area : 0.0860841  
Relative ecdf area correlation : 0.341176  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.42  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.43238  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



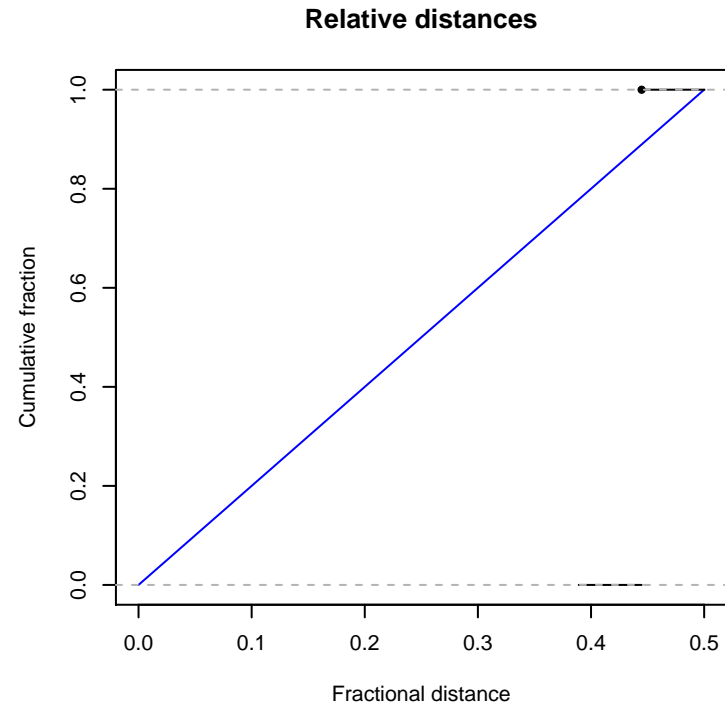
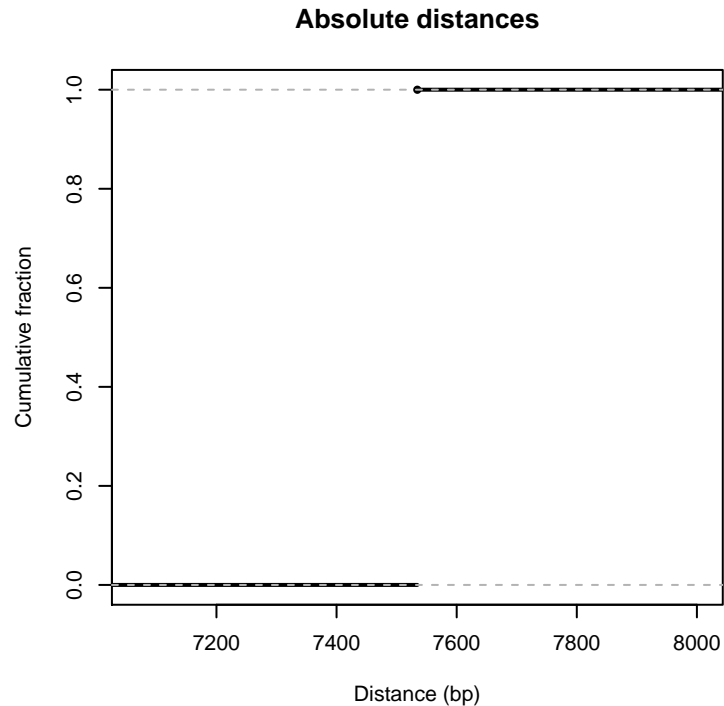
# pcontig\_014

Query population : 22  
Reference population : 28  
Relative Ks p-value : 0.780001  
Relative ecdf deviation area : 0.0262803  
Relative ecdf area correlation : -0.00151232  
Relative ecdf deviation area p-value : 0.75  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.46  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.439825  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_015

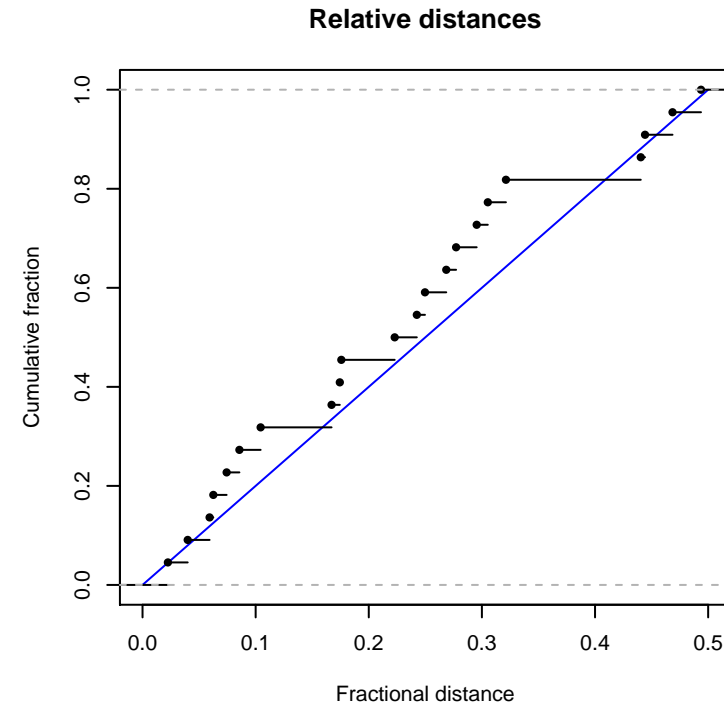
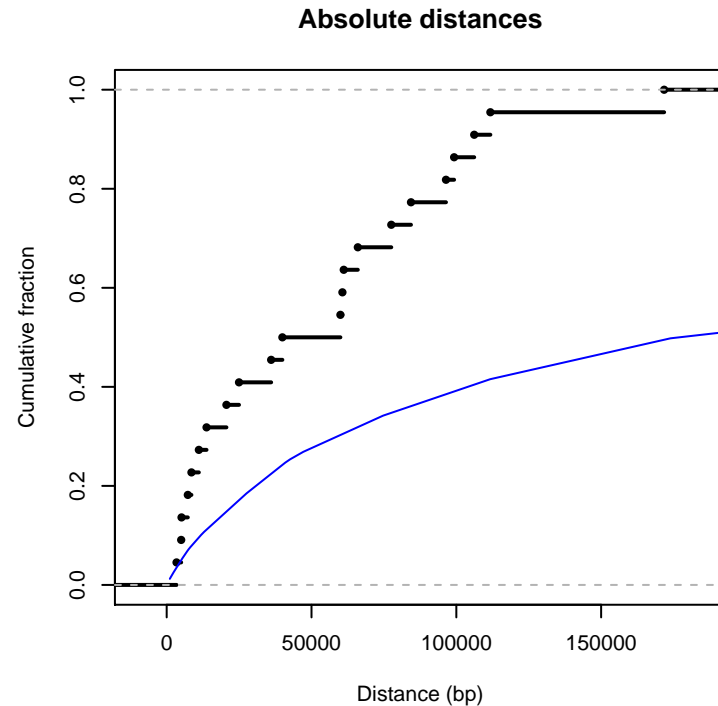
Query population : 1  
Reference population : 2  
Relative Ks p-value : 0.221107  
Relative ecdf deviation area : 0.201294  
Relative ecdf area correlation : -0.778893  
Relative ecdf deviation area p-value : 0.21  
Scaled Absolute min. distance p-value : 0.03  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00137561  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





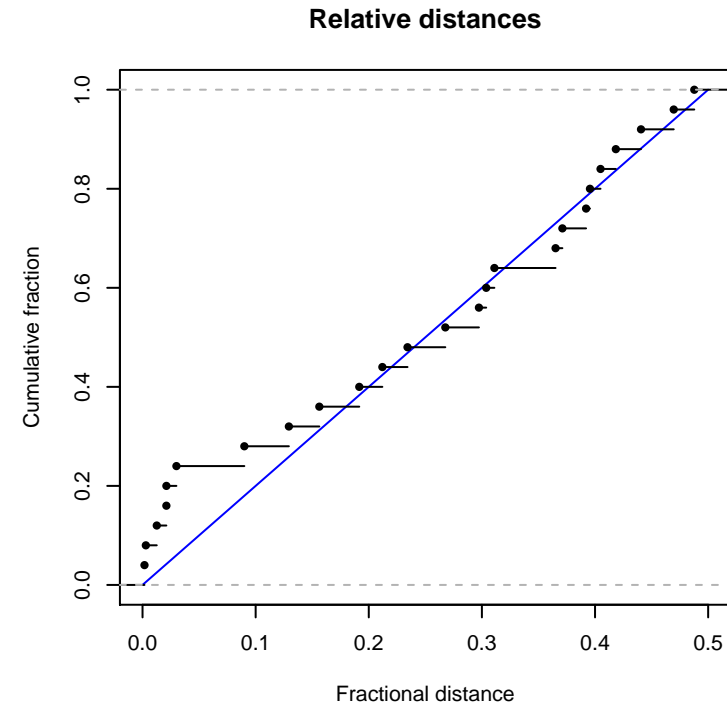
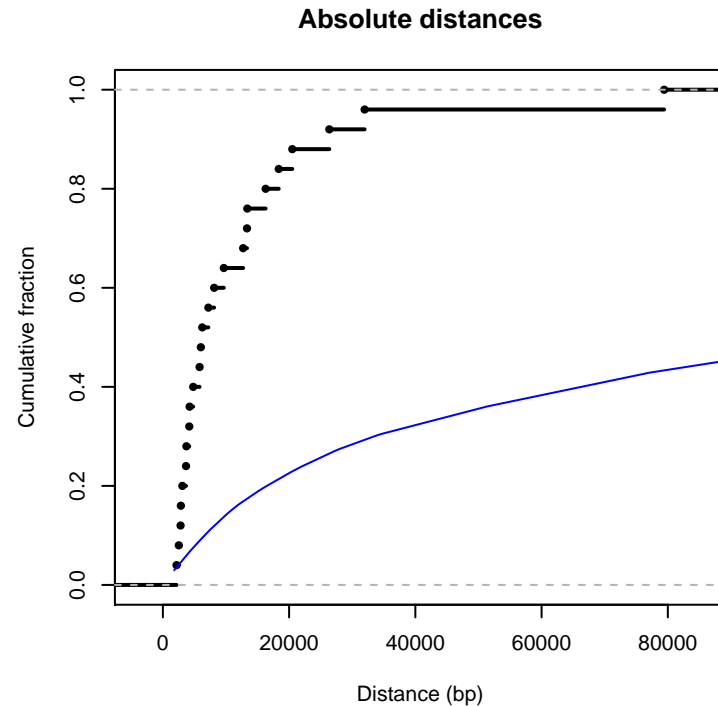
# pcontig\_016

Query population : 22  
Reference population : 17  
Relative Ks p-value : 0.454434  
Relative ecdf deviation area : 0.0282461  
Relative ecdf area correlation : 0.0917637  
Relative ecdf deviation area p-value : 0.59  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.41  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.296233  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



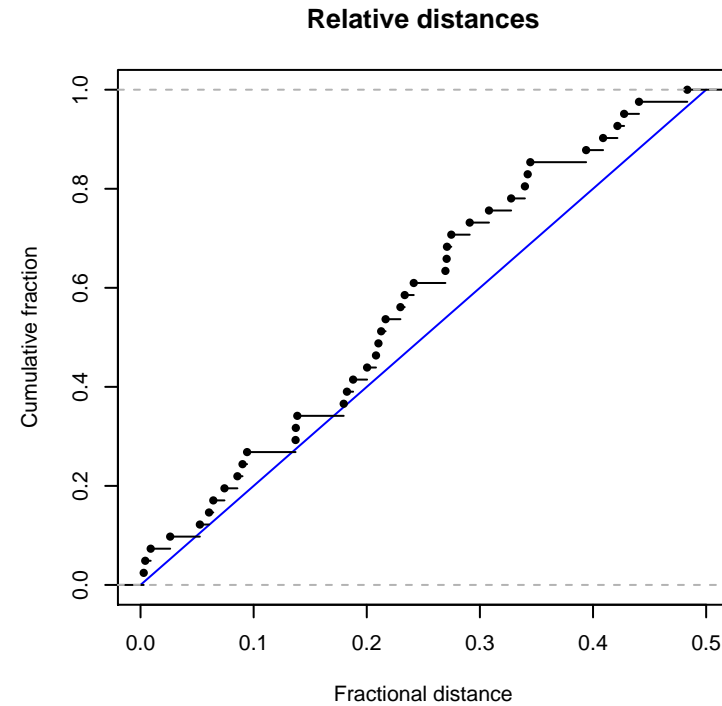
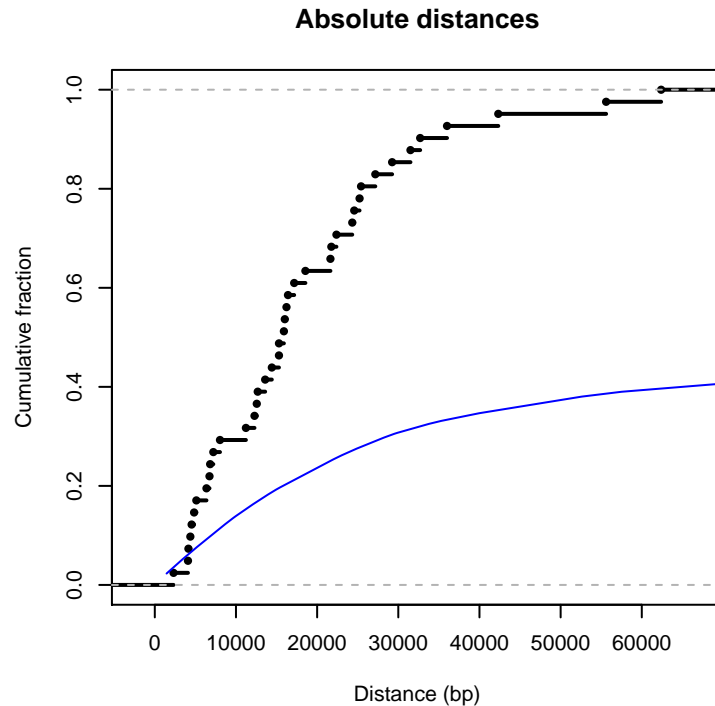
# pcontig\_017

Query population : 25  
Reference population : 25  
Relative Ks p-value : 0.349711  
Relative ecdf deviation area : 0.0209395  
Relative ecdf area correlation : 0.0355298  
Relative ecdf deviation area p-value : 0.84  
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 : 0.361588  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



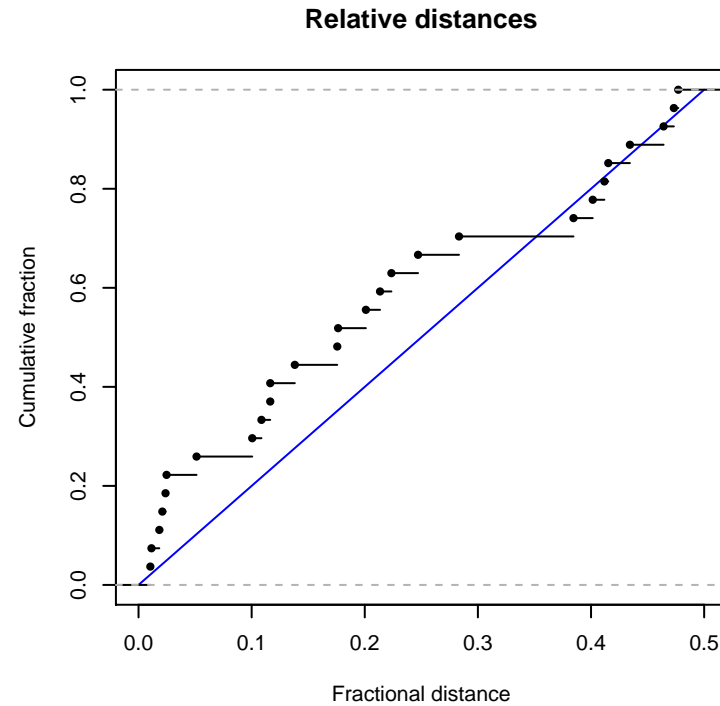
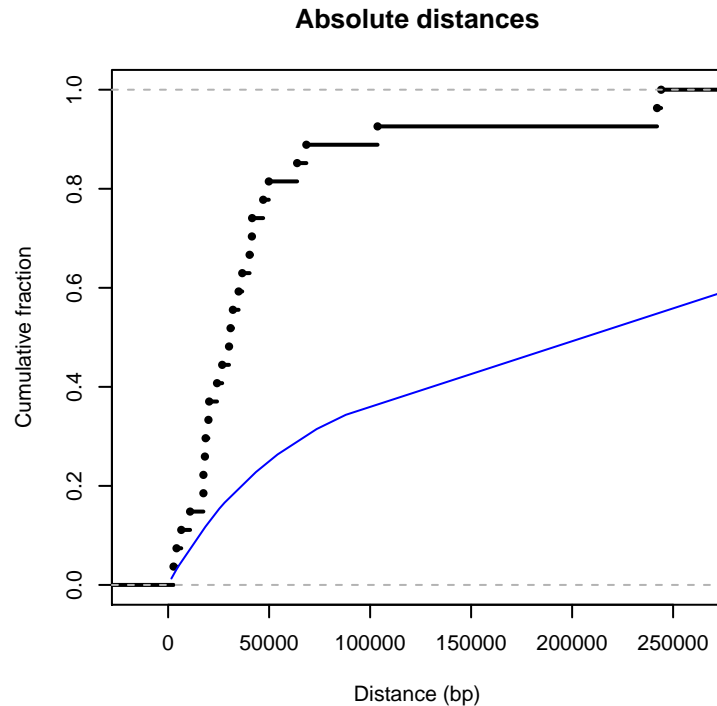
# pcontig\_018

Query population : 41  
Reference population : 24  
Relative Ks p-value : 0.194151  
Relative ecdf deviation area : 0.0333854  
Relative ecdf area correlation : 0.132271  
Relative ecdf deviation area p-value : 0.21  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.41  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.478053  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



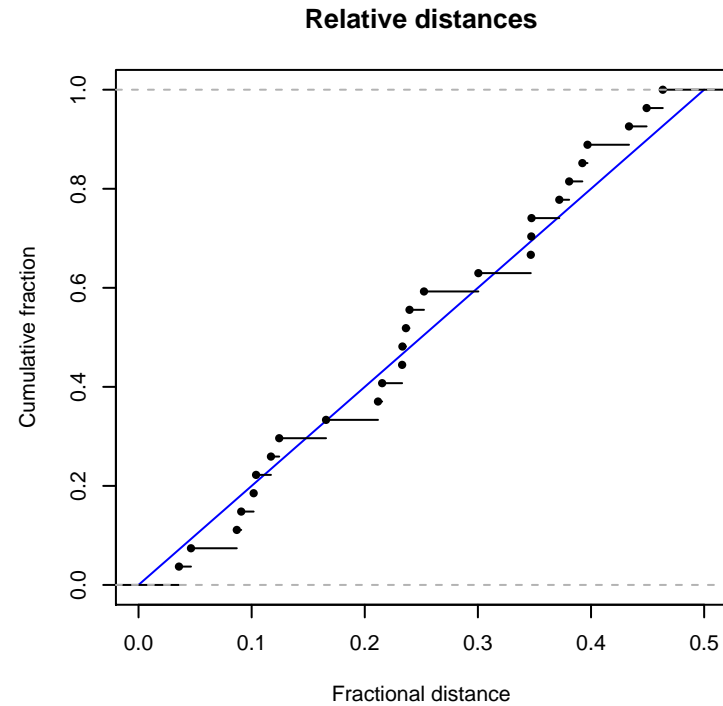
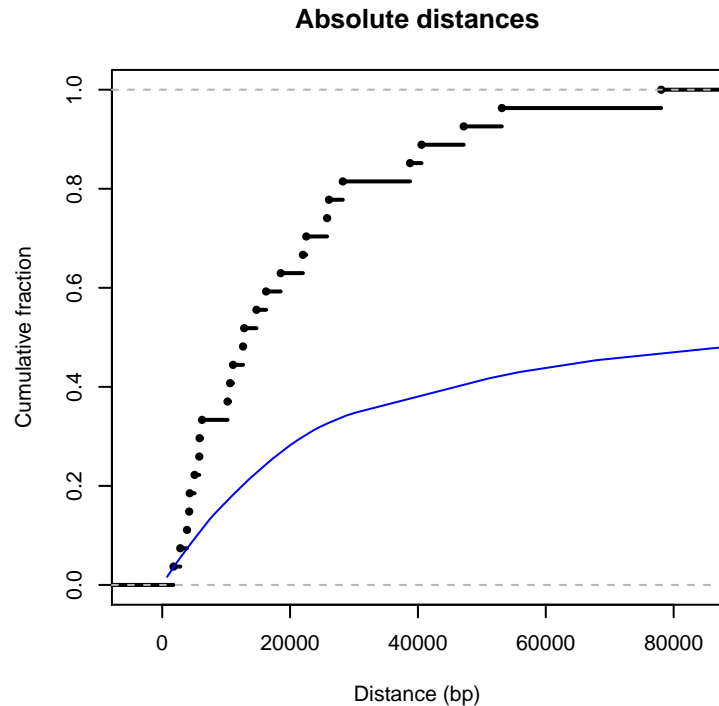
# pcontig\_019

Query population : 27  
Reference population : 12  
Relative Ks p-value : 0.292457  
Relative ecdf deviation area : 0.0444149  
Relative ecdf area correlation : 0.15201  
Relative ecdf deviation area p-value : 0.18  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.35  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.234846  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_020

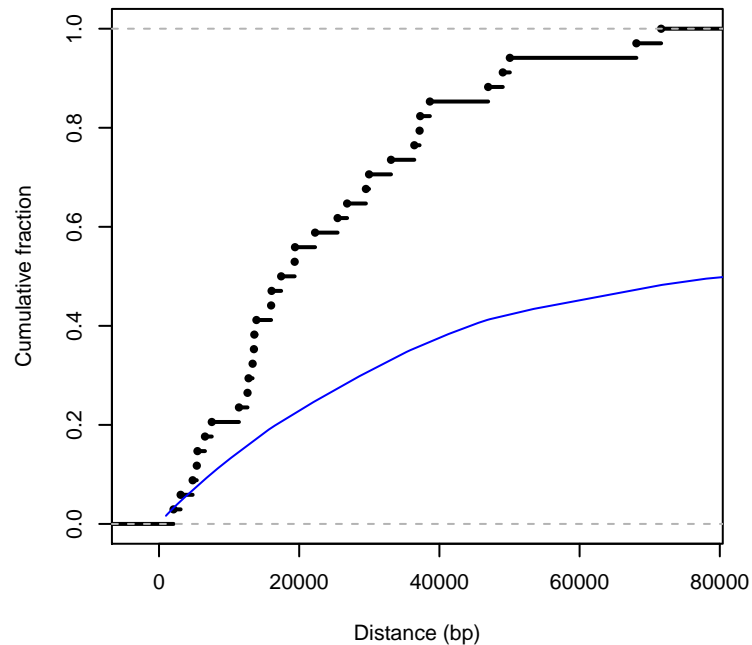
Query population : 27  
Reference population : 32  
Relative Ks p-value : 0.926982  
Relative ecdf deviation area : 0.0198029  
Relative ecdf area correlation : 0.00384312  
Relative ecdf deviation area p-value : 0.74  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.33  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.481105  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



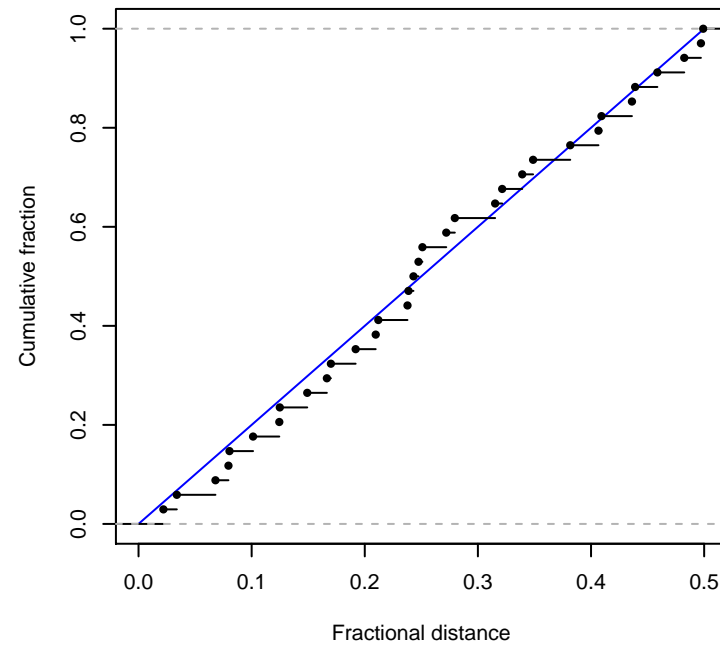
# pcontig\_021

Query population : 34  
Reference population : 25  
Relative Ks p-value : 0.977892  
Relative ecdf deviation area : 0.0138949  
Relative ecdf area correlation : -0.039747  
Relative ecdf deviation area p-value : 0.93  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.39  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.457918  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

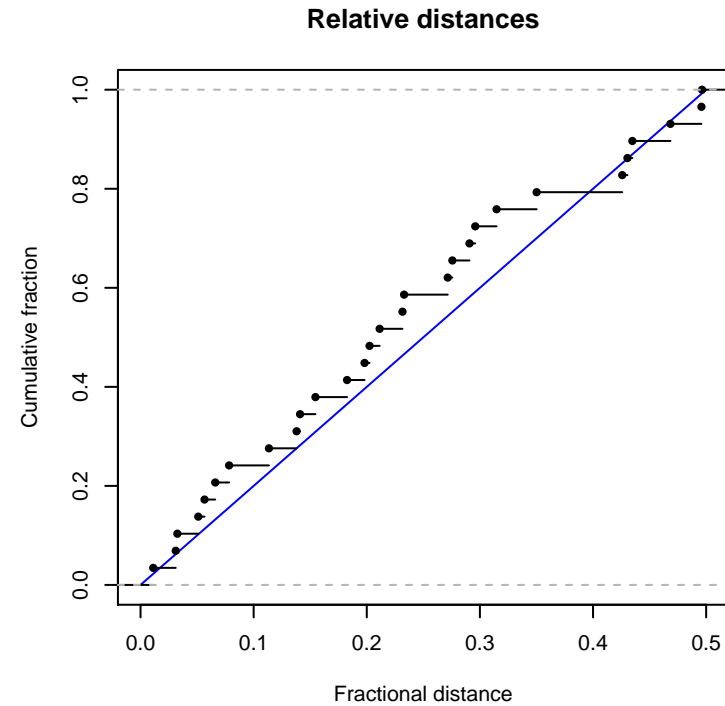
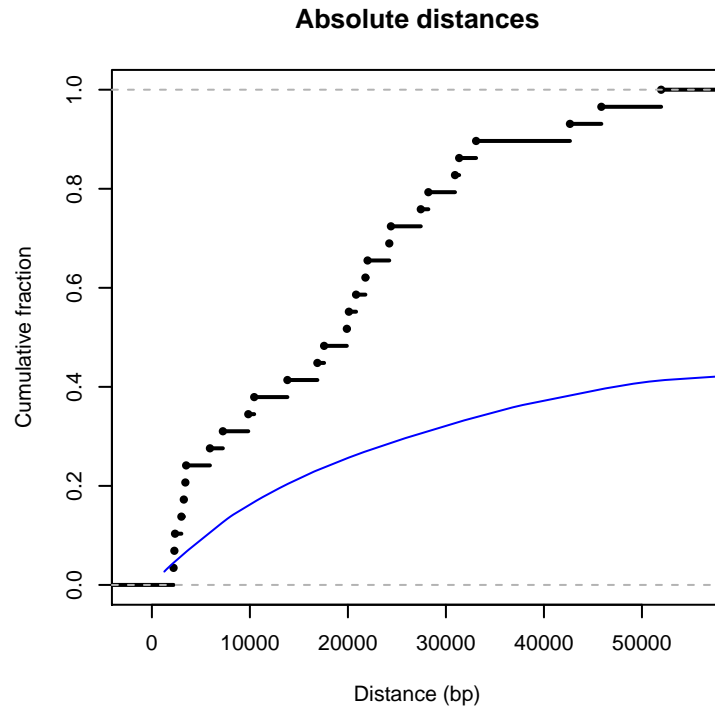


Relative distances



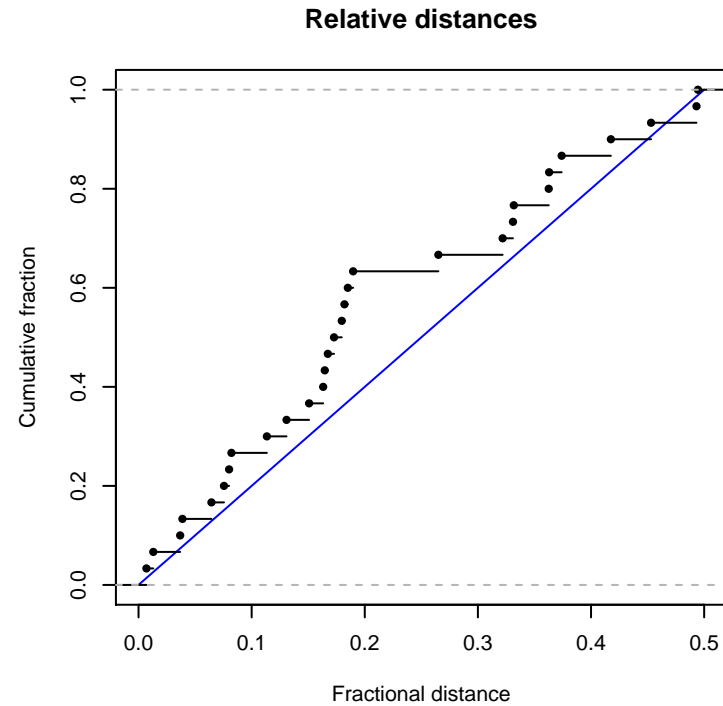
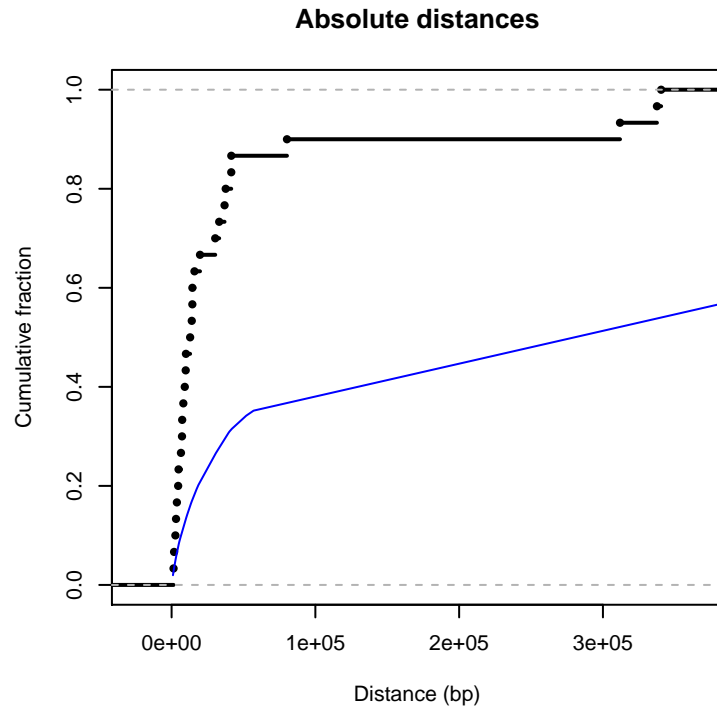
# pcontig\_022

Query population : 29  
Reference population : 32  
Relative Ks p-value : 0.641982  
Relative ecdf deviation area : 0.0248608  
Relative ecdf area correlation : 0.0781327  
Relative ecdf deviation area p-value : 0.53  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.32  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.45954  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_023

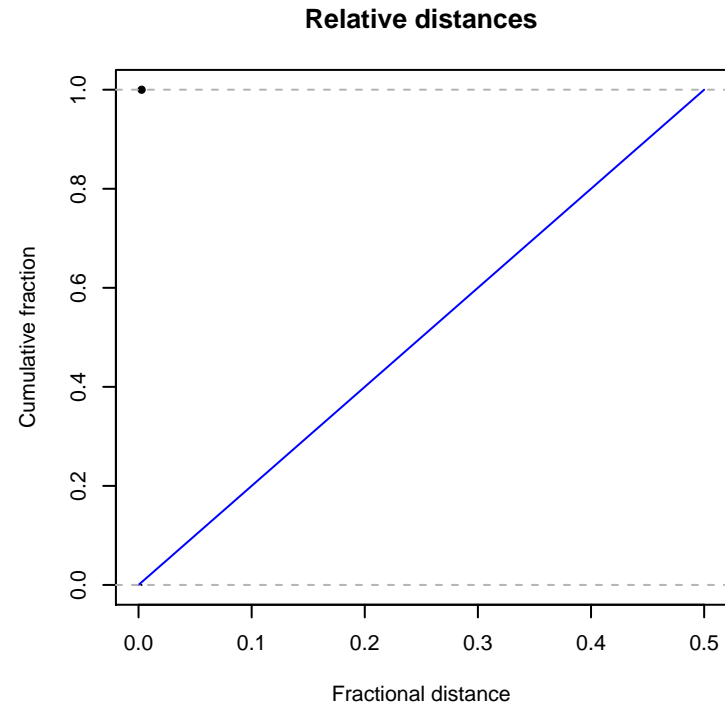
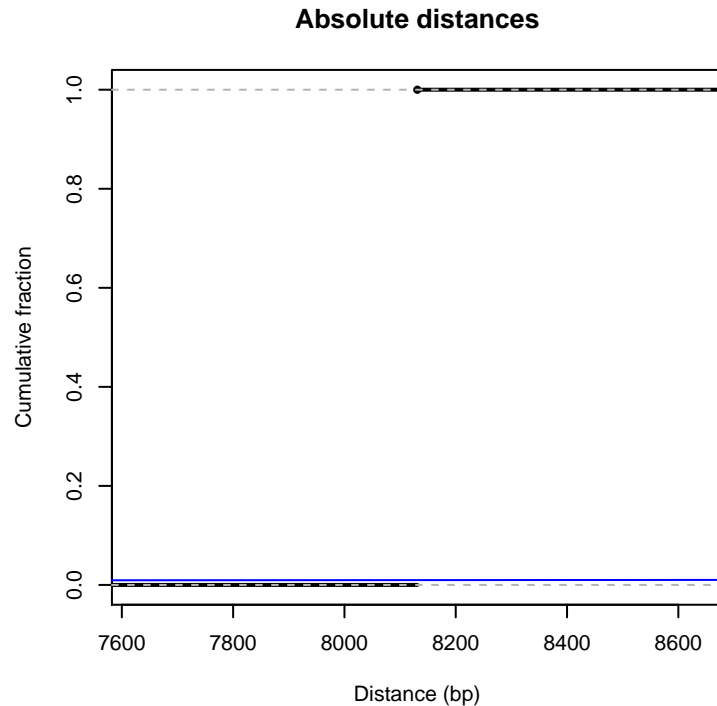
Query population : 30  
Reference population : 31  
Relative Ks p-value : 0.0341584  
Relative ecdf deviation area : 0.0382073  
Relative ecdf area correlation : 0.146014  
Relative ecdf deviation area p-value : 0.22  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.23  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.490661  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0





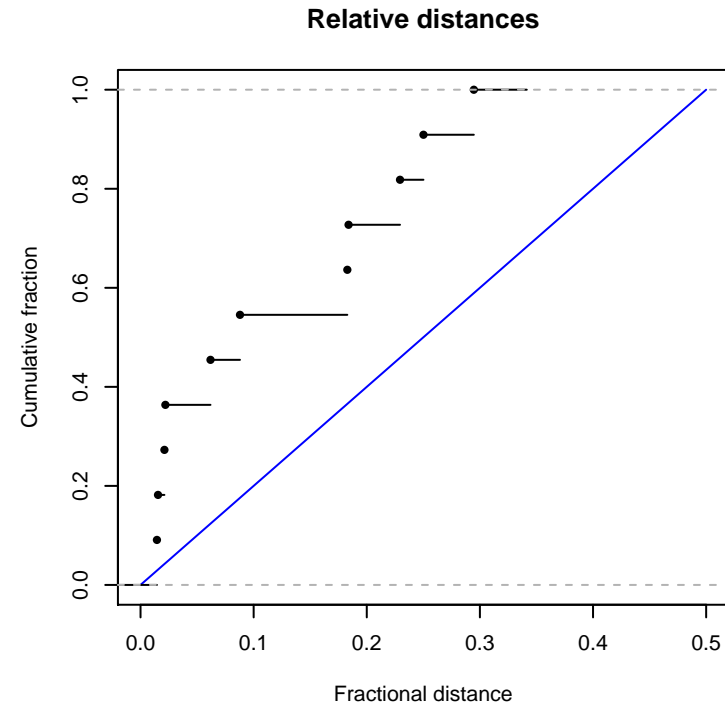
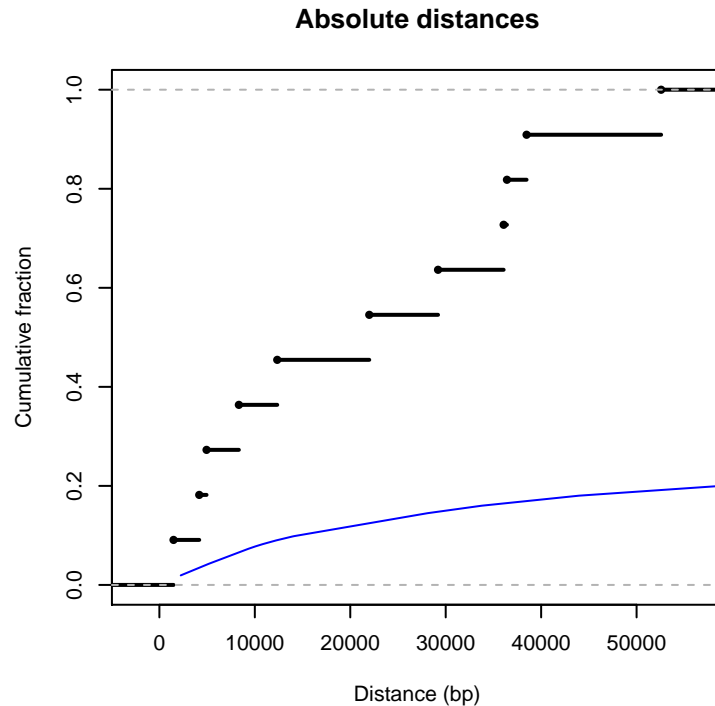
# pcontig\_024

Query population : 1  
Reference population : 2  
Relative Ks p-value : 0.0108332  
Relative ecdf deviation area : 0.246924  
Relative ecdf area correlation : 0.989167  
Relative ecdf deviation area p-value : 0.02  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00227964  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



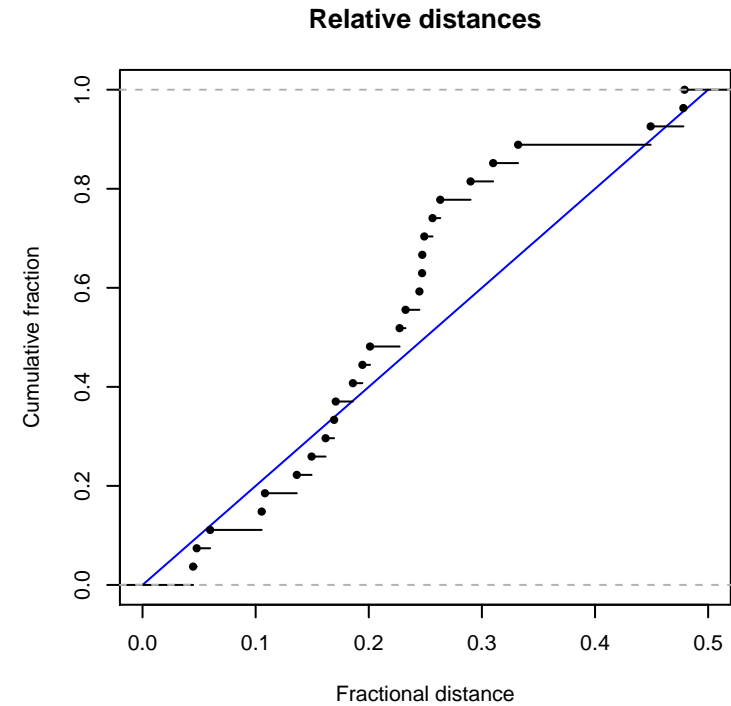
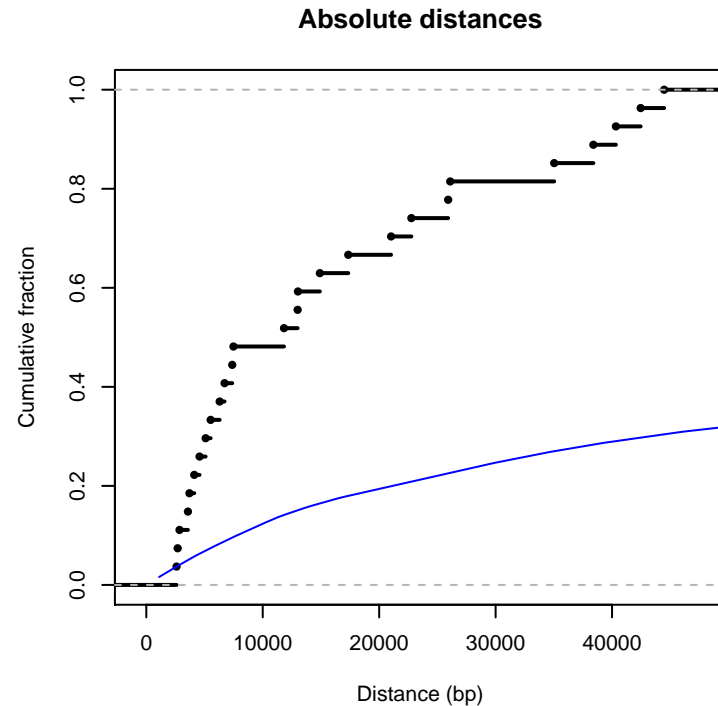
# pcontig\_025

Query population : 11  
Reference population : 13  
Relative Ks p-value : 0.0342396  
Relative ecdf deviation area : 0.126772  
Relative ecdf area correlation : 0.50412  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.15  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.15353  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



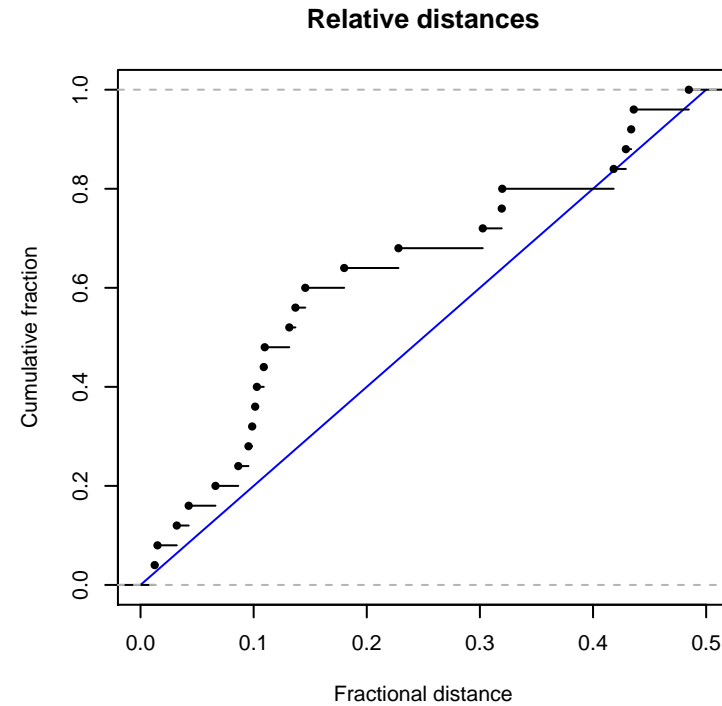
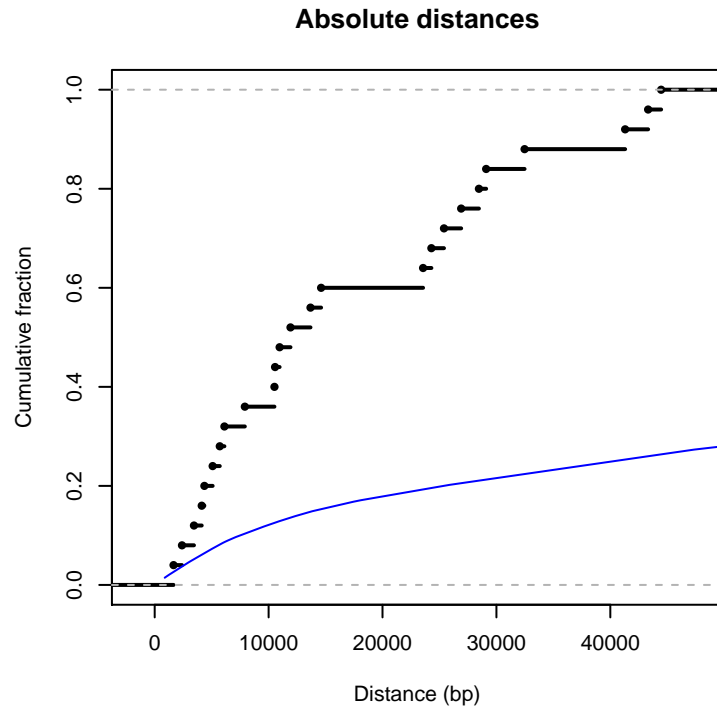
# pcontig\_026

Query population : 27  
Reference population : 22  
Relative Ks p-value : 0.0544893  
Relative ecdf deviation area : 0.0434488  
Relative ecdf area correlation : 0.105024  
Relative ecdf deviation area p-value : 0.06000000000000001  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.35  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.382905  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



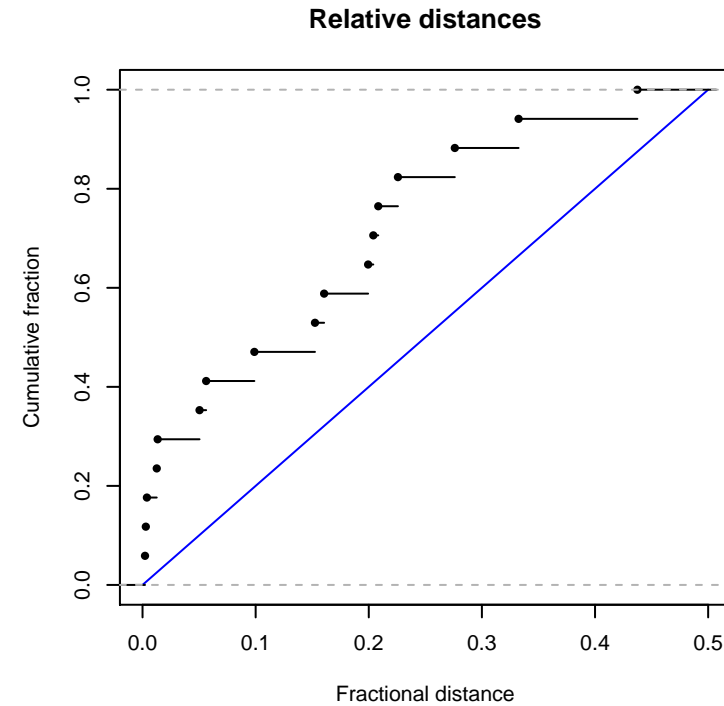
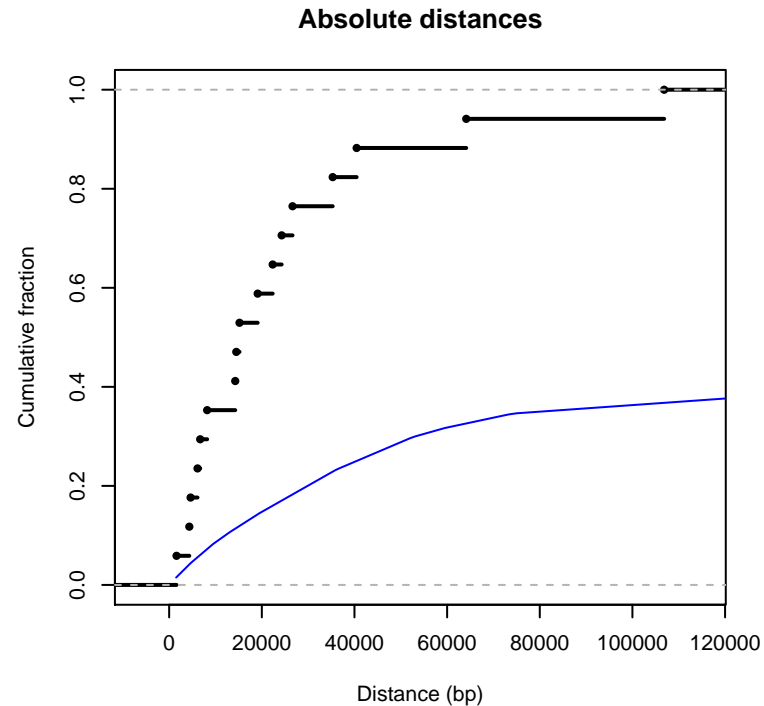
# pcontig\_027

Query population : 25  
Reference population : 25  
Relative Ks p-value : 0.0129854  
Relative ecdf deviation area : 0.0575338  
Relative ecdf area correlation : 0.226044  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.46  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.407733  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



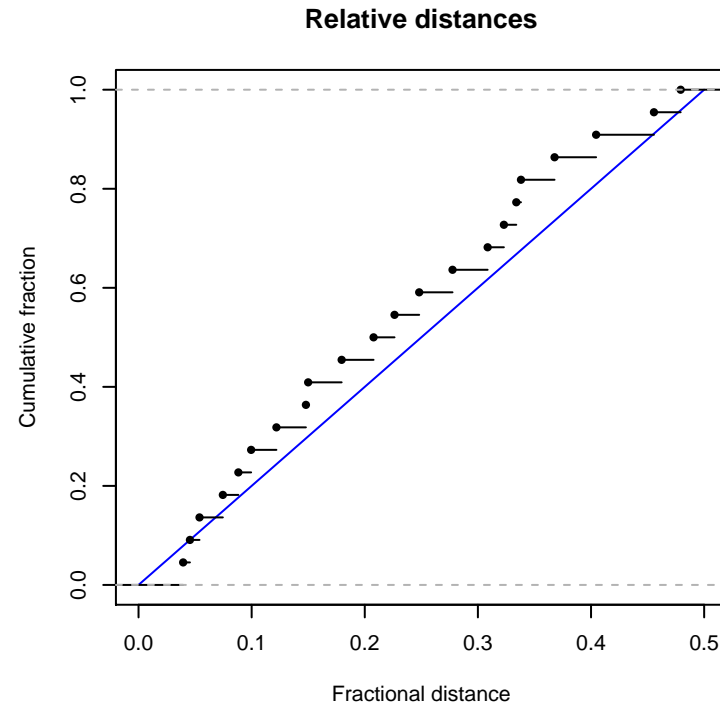
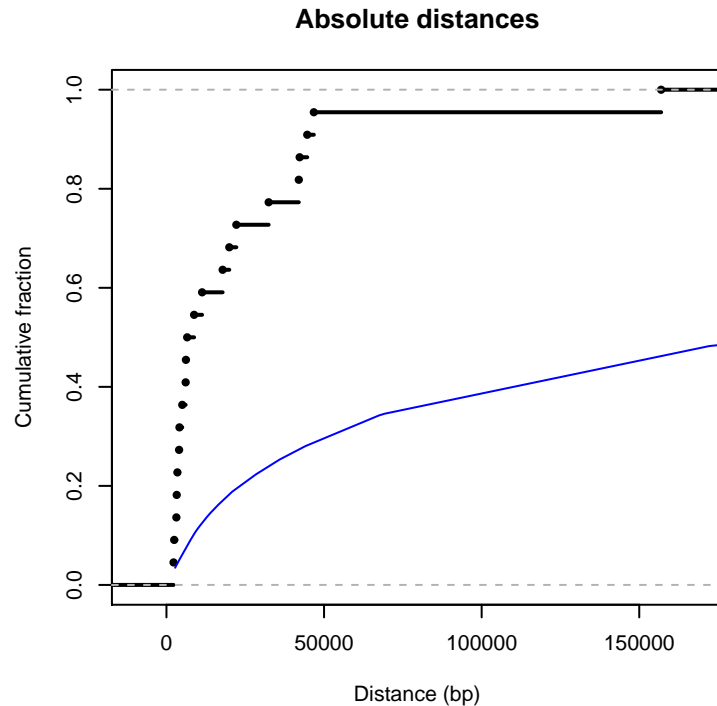
# pcontig\_028

Query population : 17  
Reference population : 15  
Relative Ks p-value : 0.0128104  
Relative ecdf deviation area : 0.107072  
Relative ecdf area correlation : 0.42662  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.23  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.1813  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



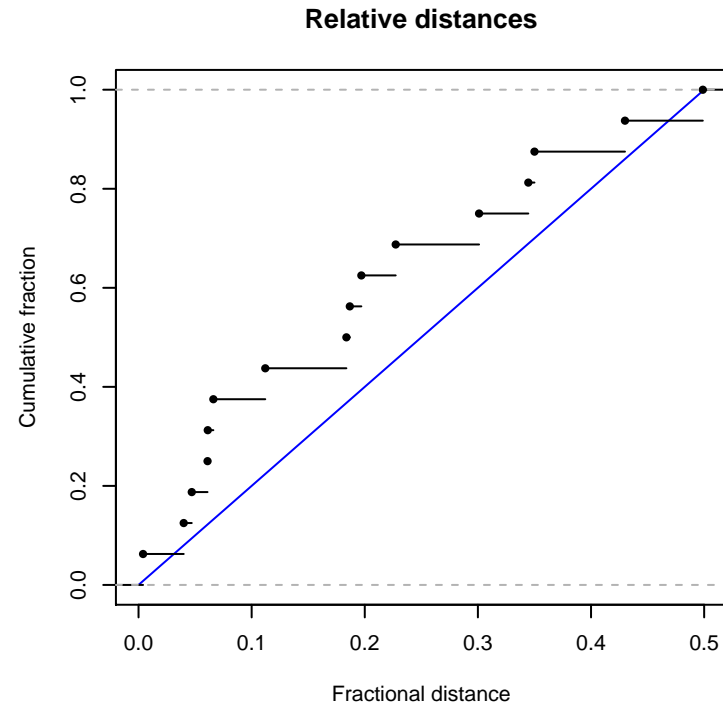
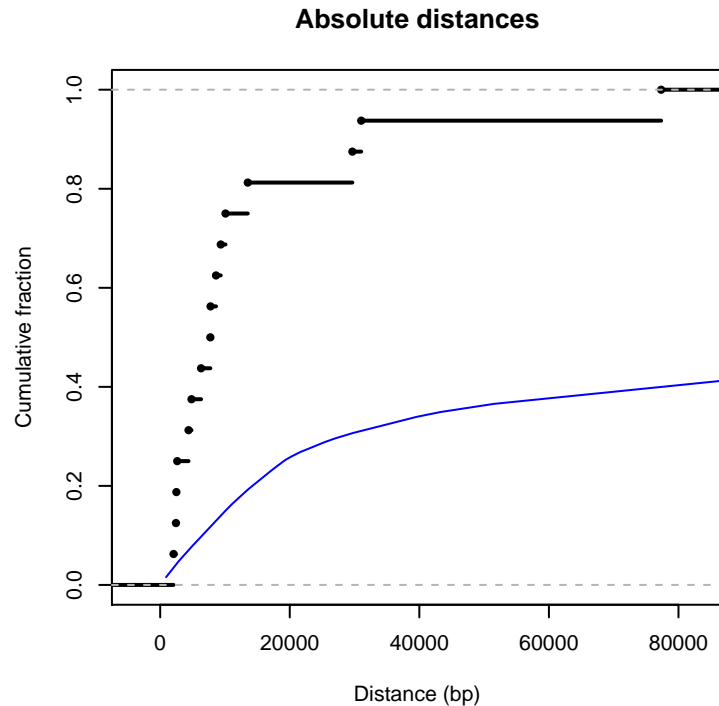
# pcontig\_029

Query population : 22  
Reference population : 19  
Relative Ks p-value : 0.714589  
Relative ecdf deviation area : 0.0280473  
Relative ecdf area correlation : 0.0961758  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.43  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.24225  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



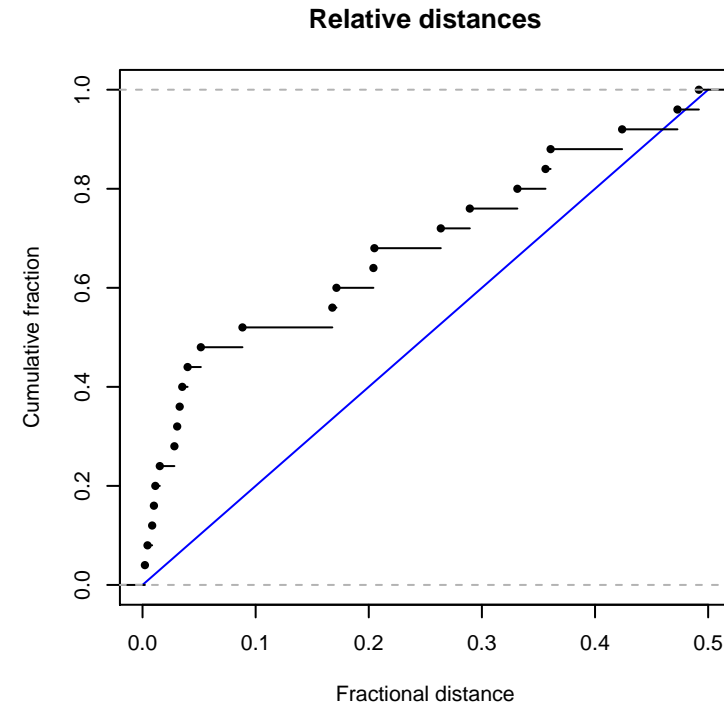
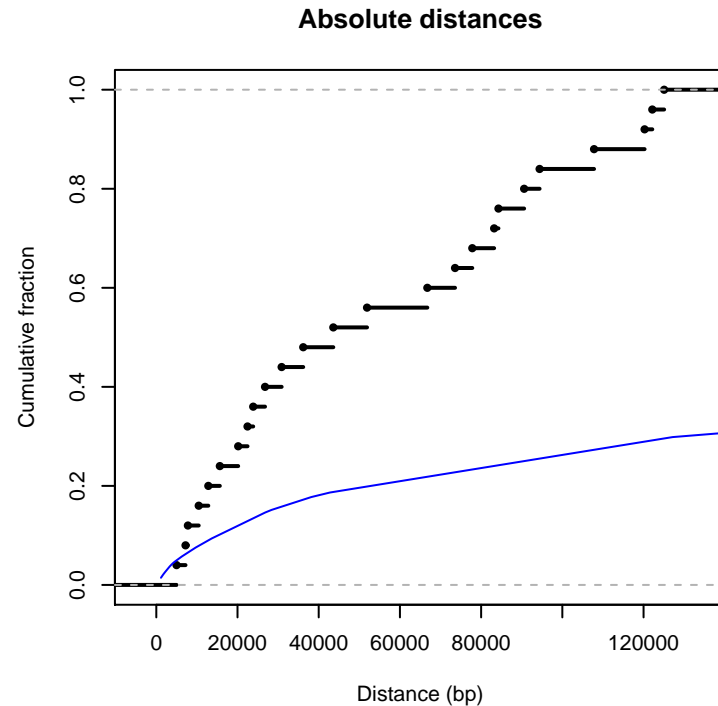
# pcontig\_030

Query population : 16  
Reference population : 26  
Relative Ks p-value : 0.257758  
Relative ecdf deviation area : 0.0576553  
Relative ecdf area correlation : 0.222345  
Relative ecdf deviation area p-value : 0.12  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.32  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.223164  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_031

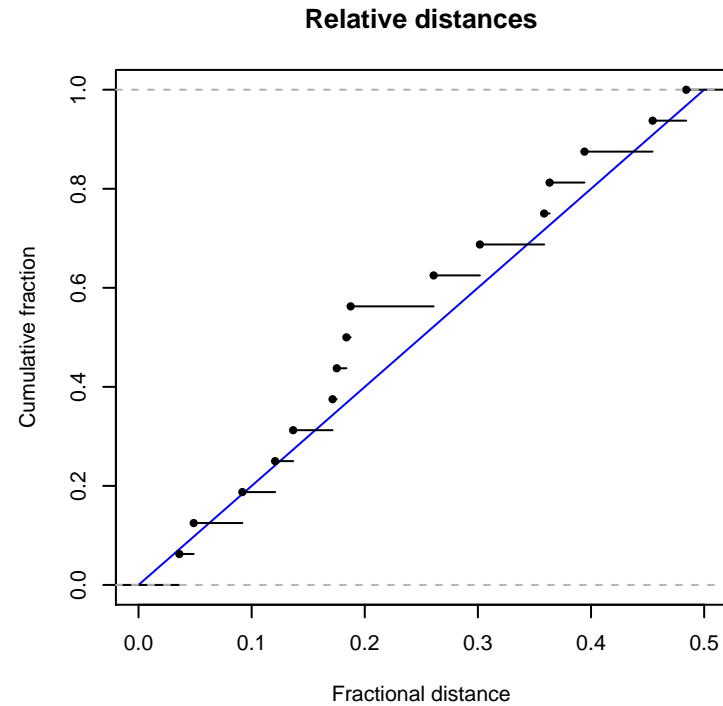
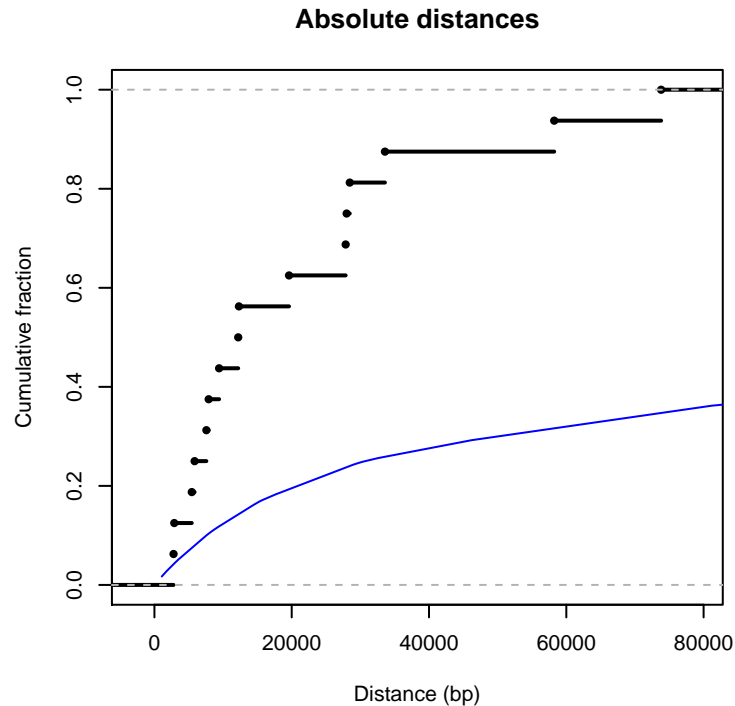
Query population : 25  
Reference population : 19  
Relative Ks p-value : 0.00106483  
Relative ecdf deviation area : 0.0870742  
Relative ecdf area correlation : 0.344576  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.32  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.279676  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





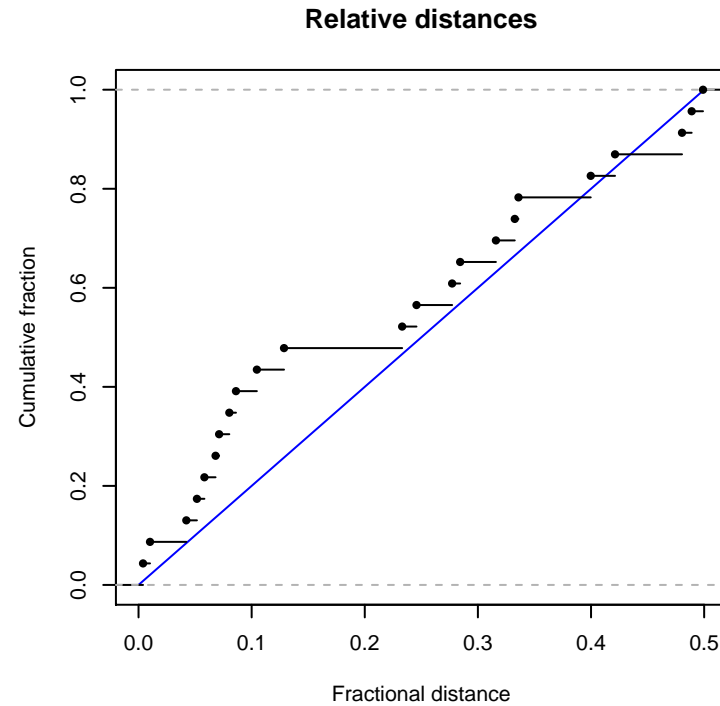
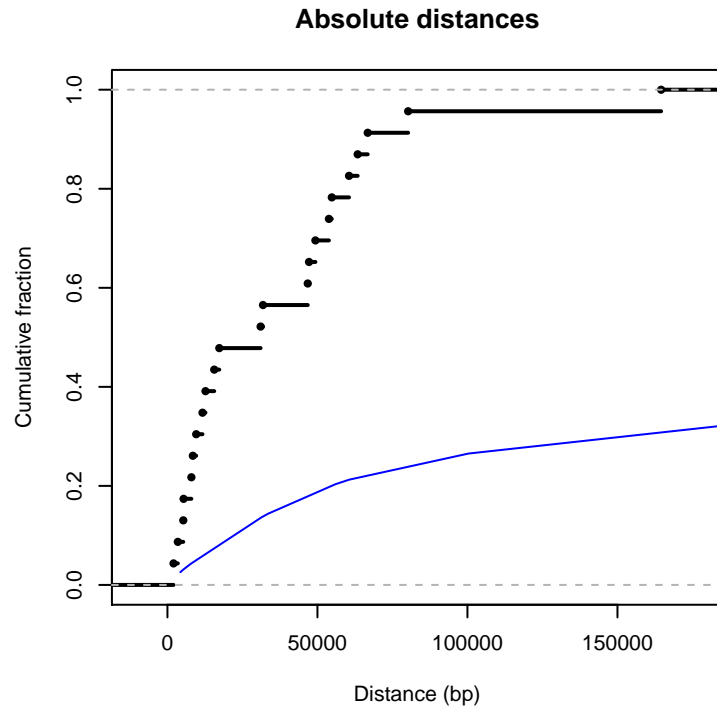
# pcontig\_033

Query population : 16  
Reference population : 24  
Relative Ks p-value : 0.564722  
Relative ecdf deviation area : 0.022863  
Relative ecdf area correlation : 0.0576475  
Relative ecdf deviation area p-value : 0.88  
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 : 0.250795  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



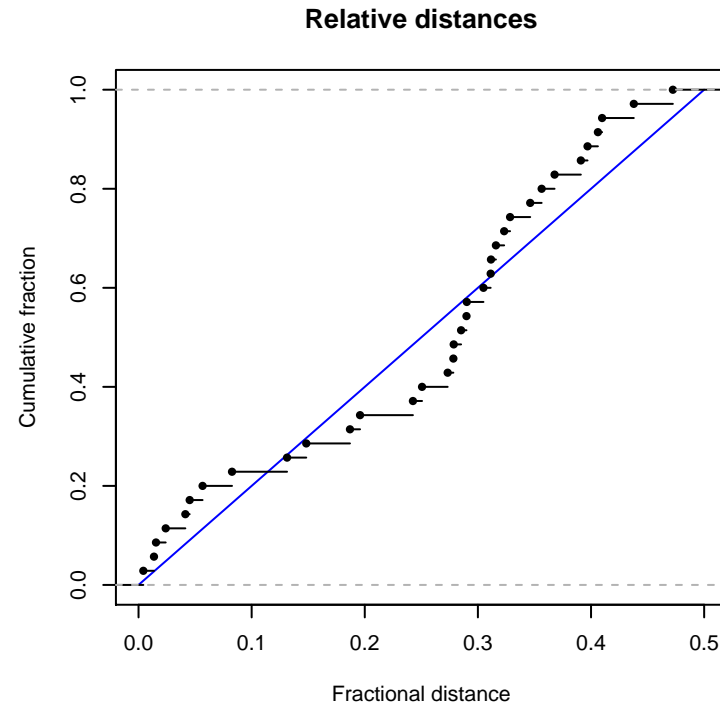
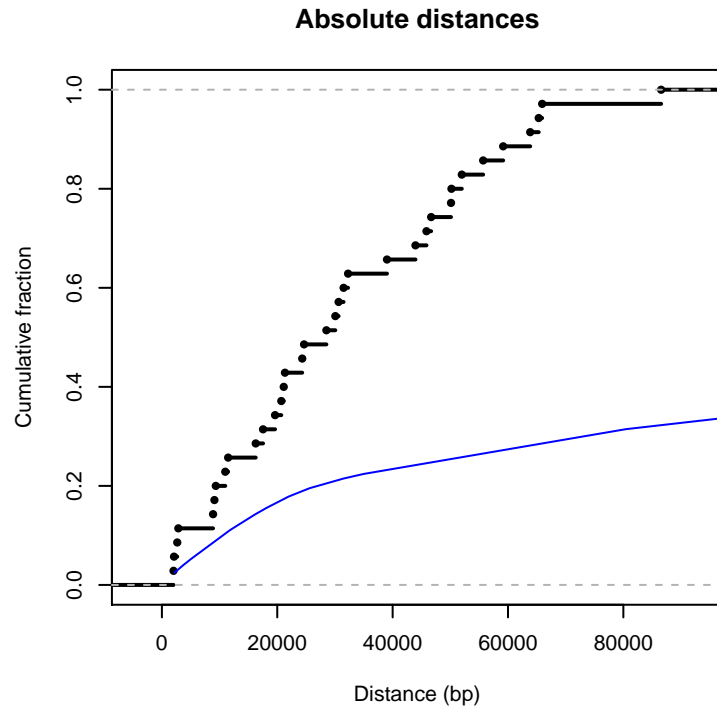
# pcontig\_034

Query population : 23  
Reference population : 9  
Relative Ks p-value : 0.164762  
Relative ecdf deviation area : 0.0376457  
Relative ecdf area correlation : 0.127081  
Relative ecdf deviation area p-value : 0.32  
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 : 0.202826  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



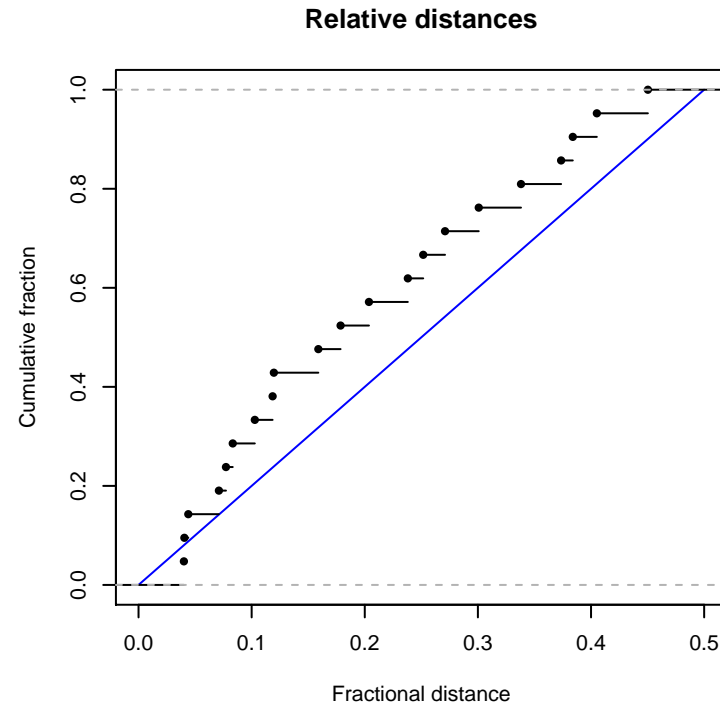
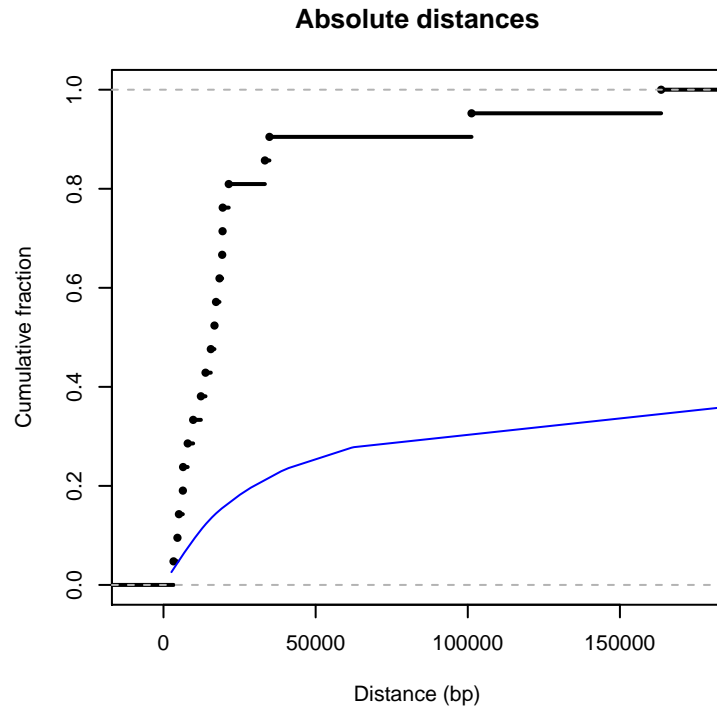
# pcontig\_035

Query population : 35  
Reference population : 17  
Relative Ks p-value : 0.401086  
Relative ecdf deviation area : 0.0306525  
Relative ecdf area correlation : 0.0155689  
Relative ecdf deviation area p-value : 0.28  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.44  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.368066  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



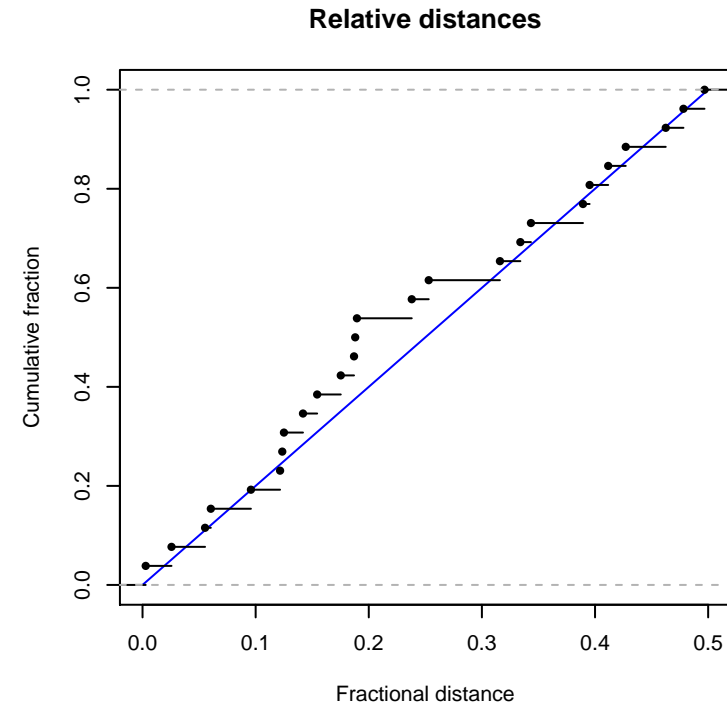
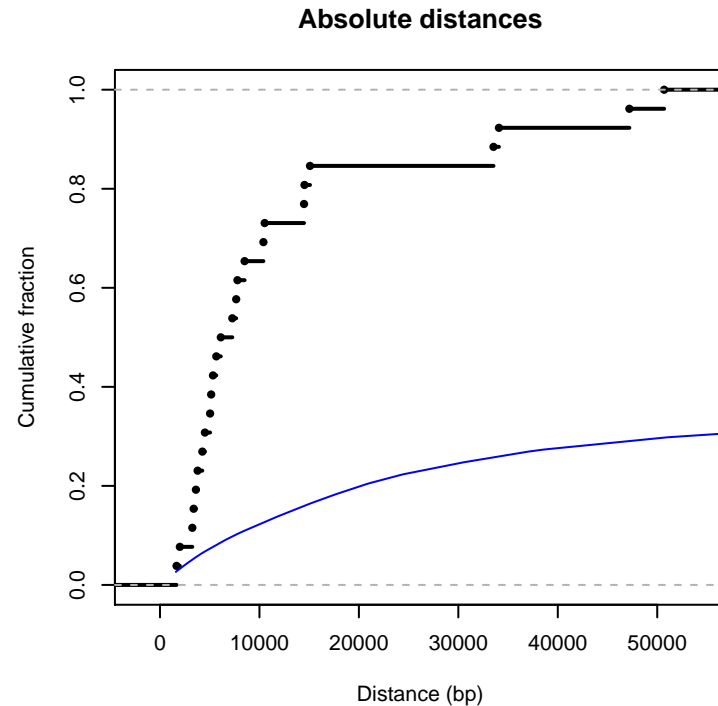
# pcontig\_036

Query population : 21  
Reference population : 15  
Relative Ks p-value : 0.390027  
Relative ecdf deviation area : 0.0510552  
Relative ecdf area correlation : 0.190315  
Relative ecdf deviation area p-value : 0.08  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.32  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.224766  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



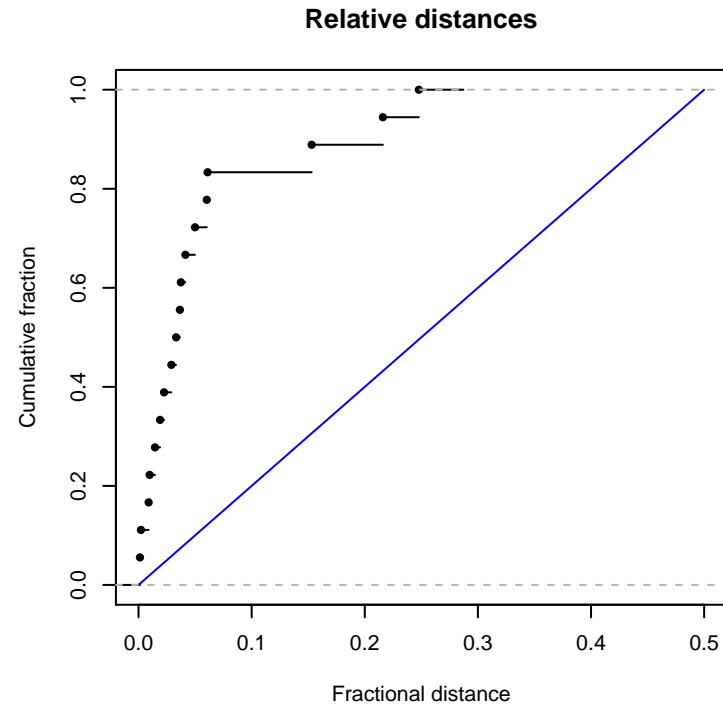
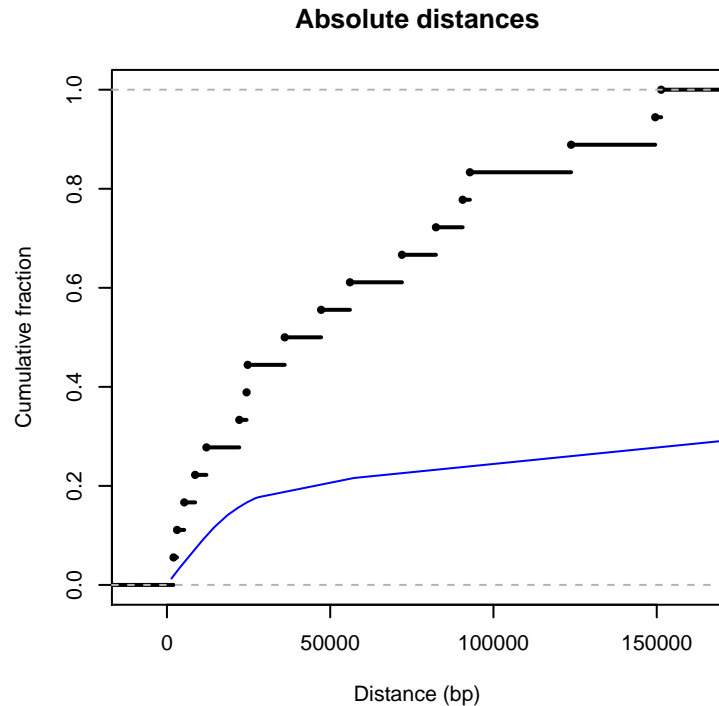
# pcontig\_037

Query population : 26  
Reference population : 25  
Relative Ks p-value : 0.475223  
Relative ecdf deviation area : 0.0187837  
Relative ecdf area correlation : 0.0475166  
Relative ecdf deviation area p-value : 0.8  
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 : 0.366513  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



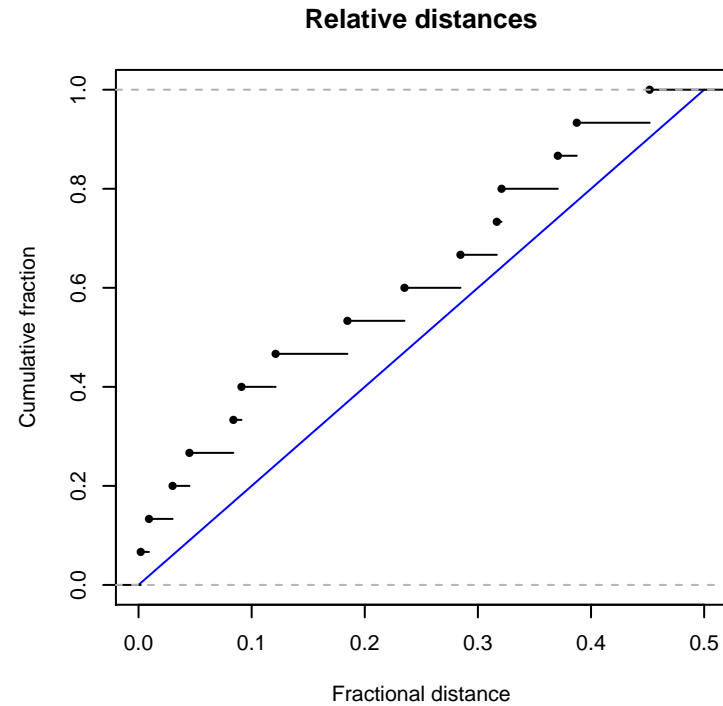
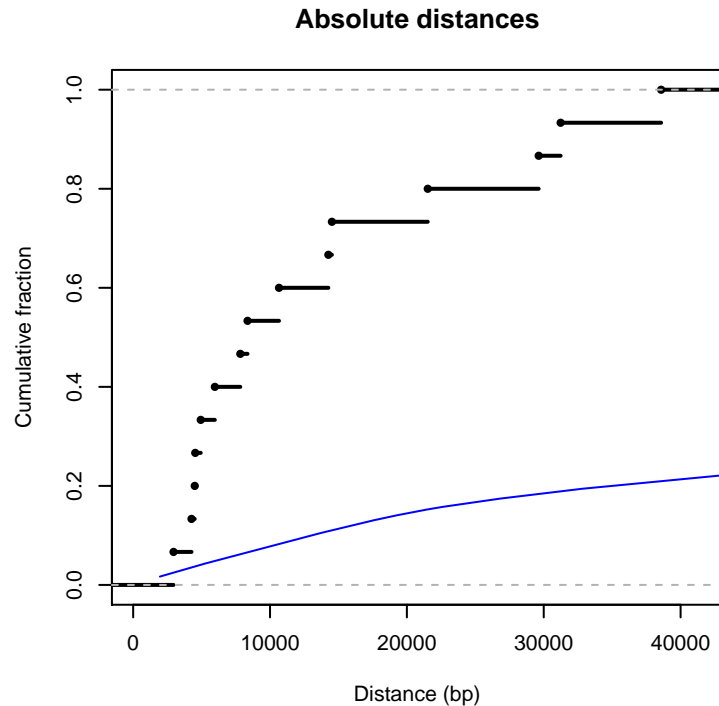
# pcontig\_039

Query population : 18  
Reference population : 14  
Relative Ks p-value : 1.04253e-09  
Relative ecdf deviation area : 0.191606  
Relative ecdf area correlation : 0.767947  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.33  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.306147  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



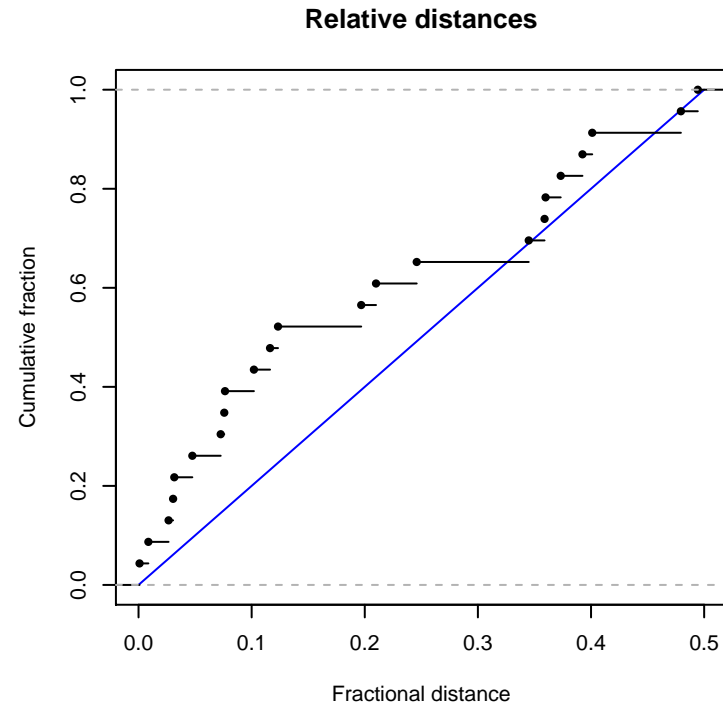
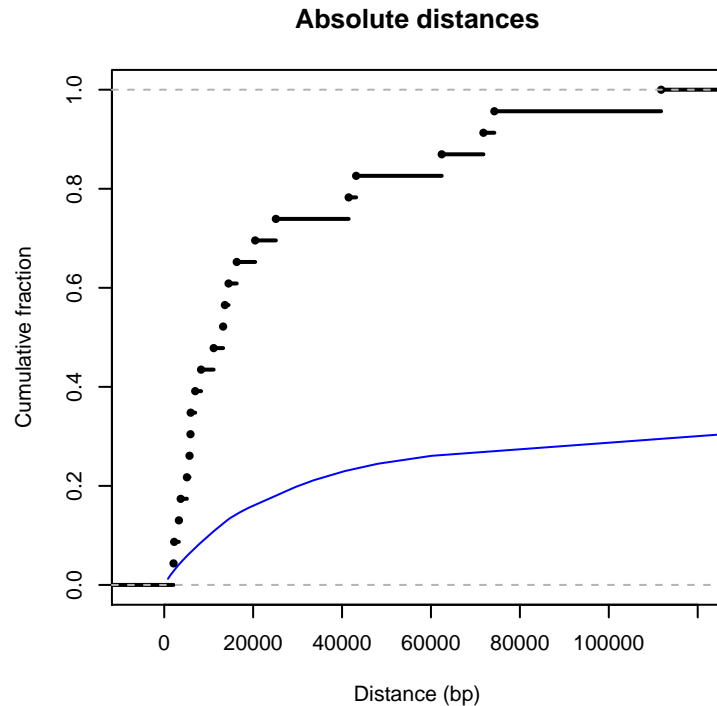
# pcontig\_040

Query population : 15  
Reference population : 13  
Relative Ks p-value : 0.380337  
Relative ecdf deviation area : 0.0545933  
Relative ecdf area correlation : 0.217551  
Relative ecdf deviation area p-value : 0.15  
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 : 0.114085  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_041

Query population : 23  
Reference population : 22  
Relative Ks p-value : 0.0497341  
Relative ecdf deviation area : 0.054061  
Relative ecdf area correlation : 0.205345  
Relative ecdf deviation area p-value : 0.09  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.47  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.30997  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

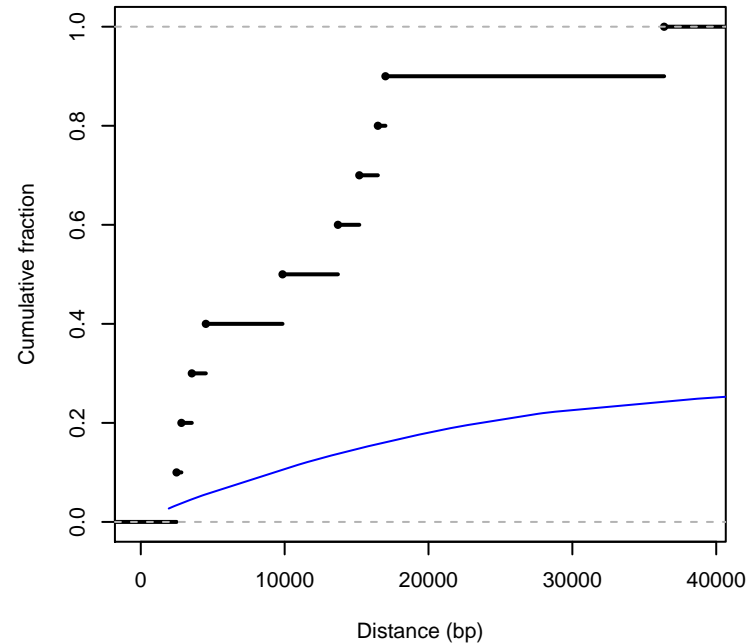




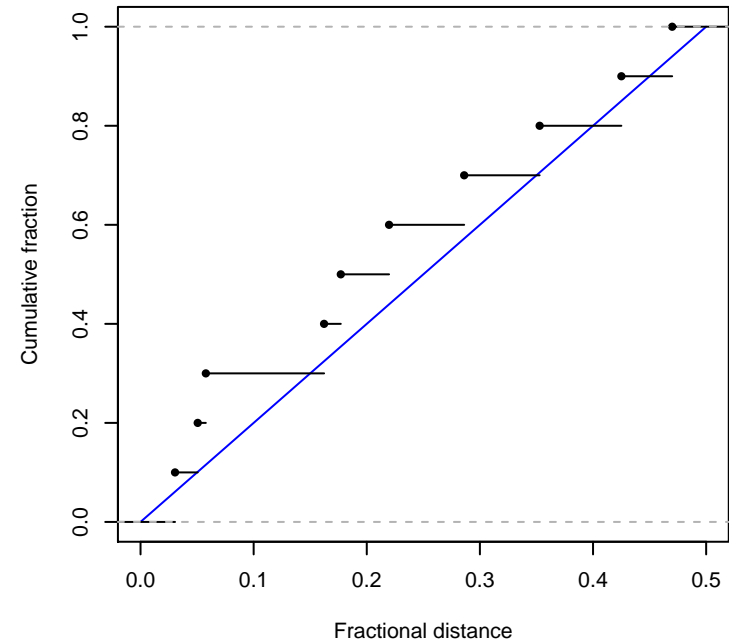
# pcontig\_042

Query population : 10  
Reference population : 21  
Relative Ks p-value : 0.82608  
Relative ecdf deviation area : 0.0308933  
Relative ecdf area correlation : 0.107308  
Relative ecdf deviation area p-value : 0.89  
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 : 0.14264  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

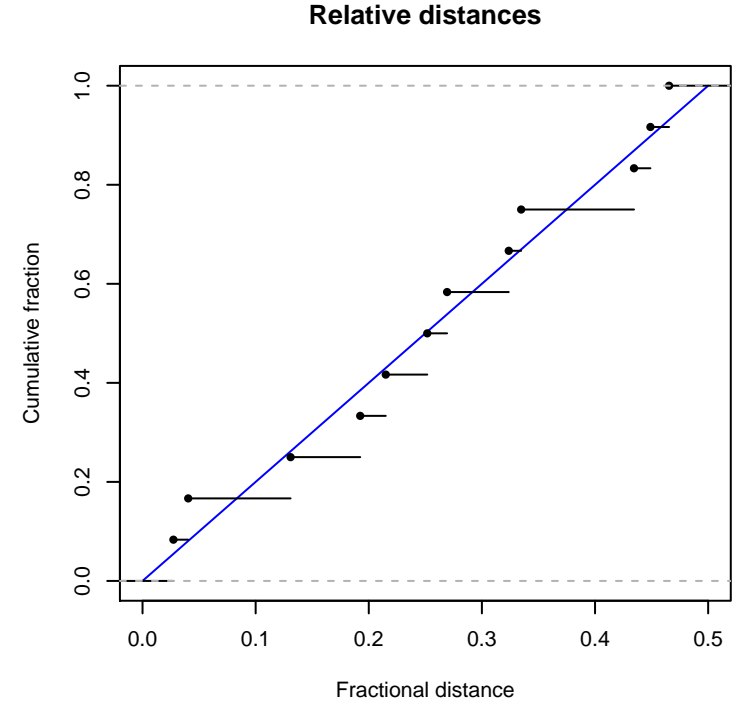
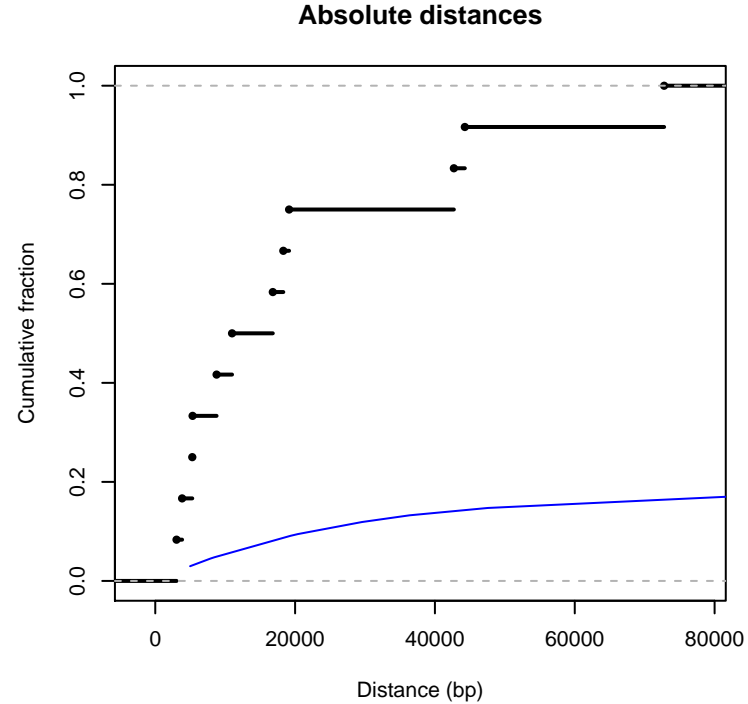


Relative distances



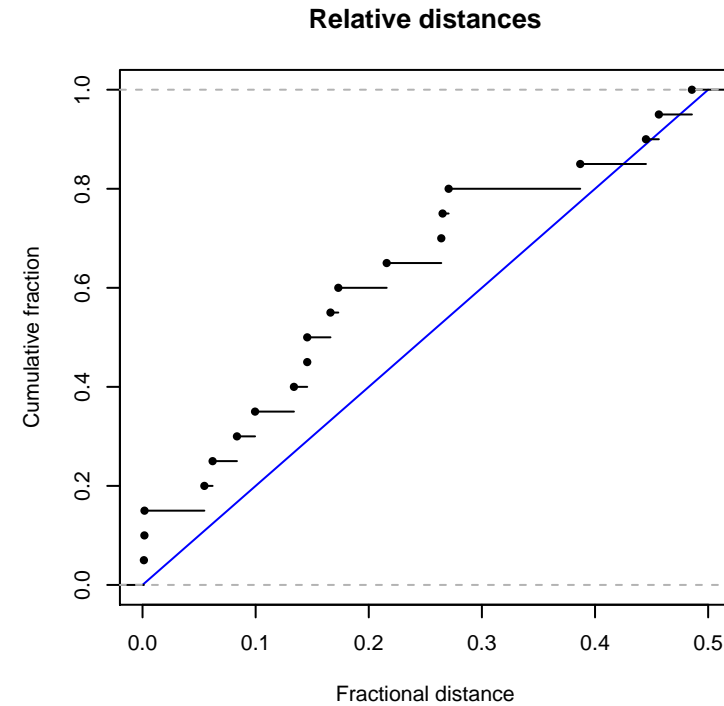
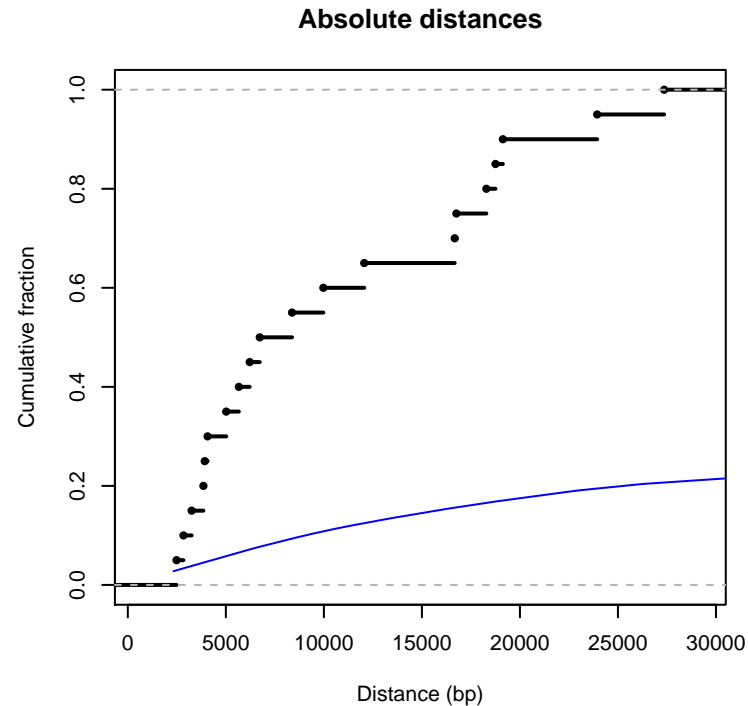
# pcontig\_043

Query population : 12  
Reference population : 9  
Relative Ks p-value : 0.960812  
Relative ecdf deviation area : 0.022456  
Relative ecdf area correlation : -0.0447544  
Relative ecdf deviation area p-value : 0.93  
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 : 0.104361  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



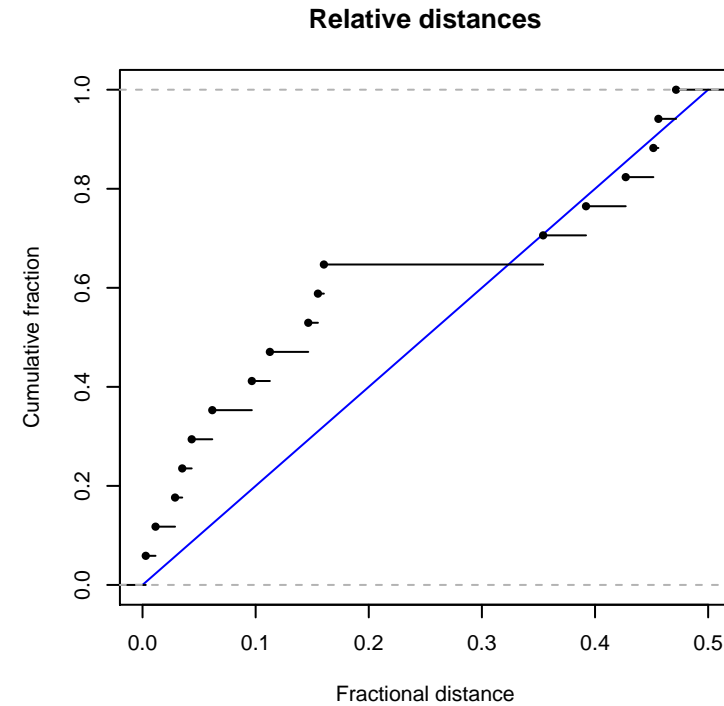
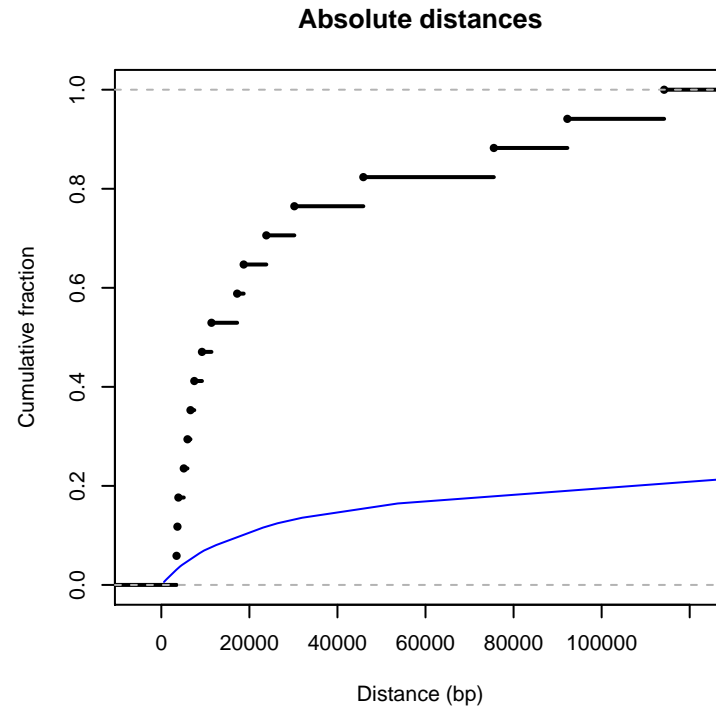
# pcontig\_044

Query population : 20  
Reference population : 18  
Relative Ks p-value : 0.113945  
Relative ecdf deviation area : 0.0579625  
Relative ecdf area correlation : 0.228368  
Relative ecdf deviation area p-value : 0.07  
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 : 0.224973  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_045

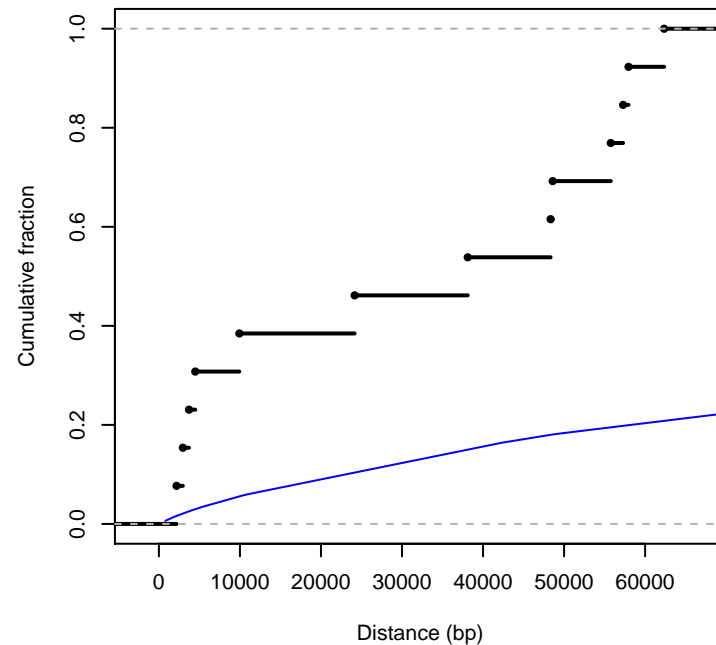
Query population : 17  
Reference population : 15  
Relative Ks p-value : 0.041006  
Relative ecdf deviation area : 0.0615177  
Relative ecdf area correlation : 0.198349  
Relative ecdf deviation area p-value : 0.07  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.3  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.160717  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



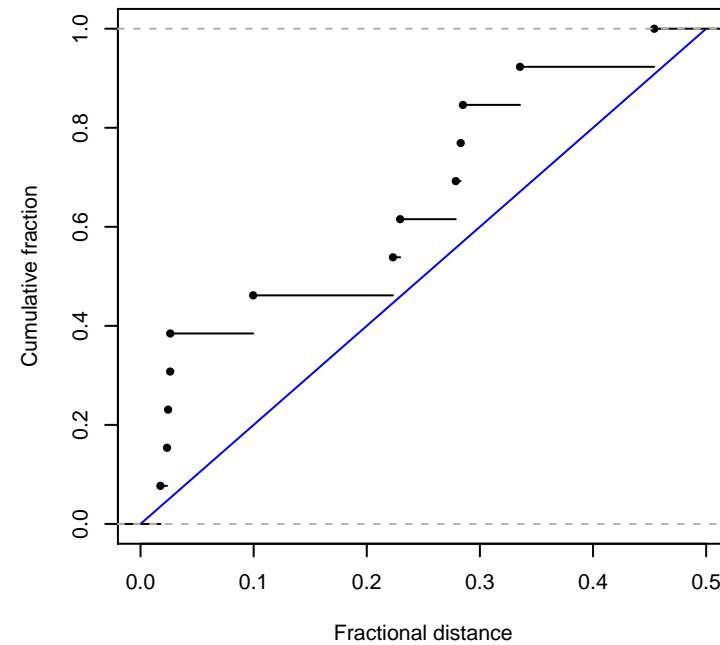
# pcontig\_046

Query population : 13  
Reference population : 12  
Relative Ks p-value : 0.0886612  
Relative ecdf deviation area : 0.0732758  
Relative ecdf area correlation : 0.290362  
Relative ecdf deviation area p-value : 0.07  
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 : 0.125425  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

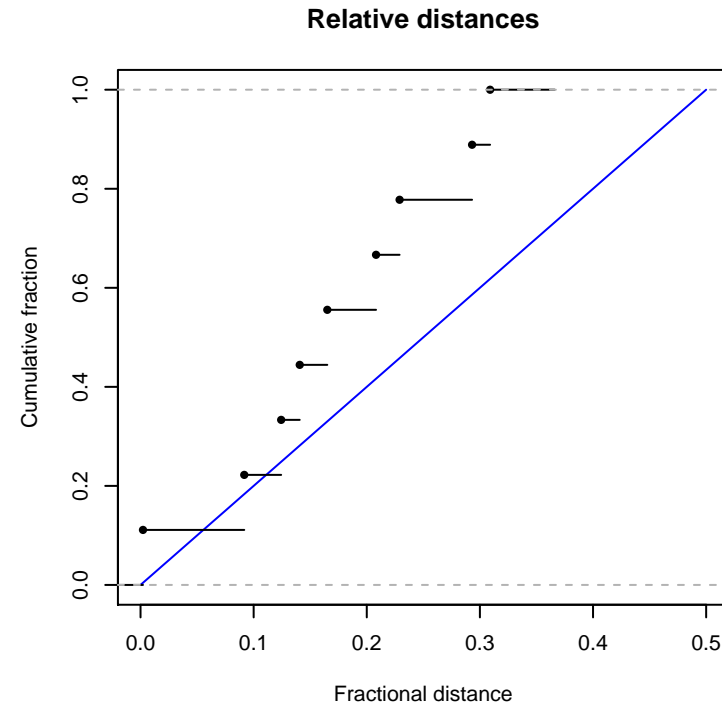
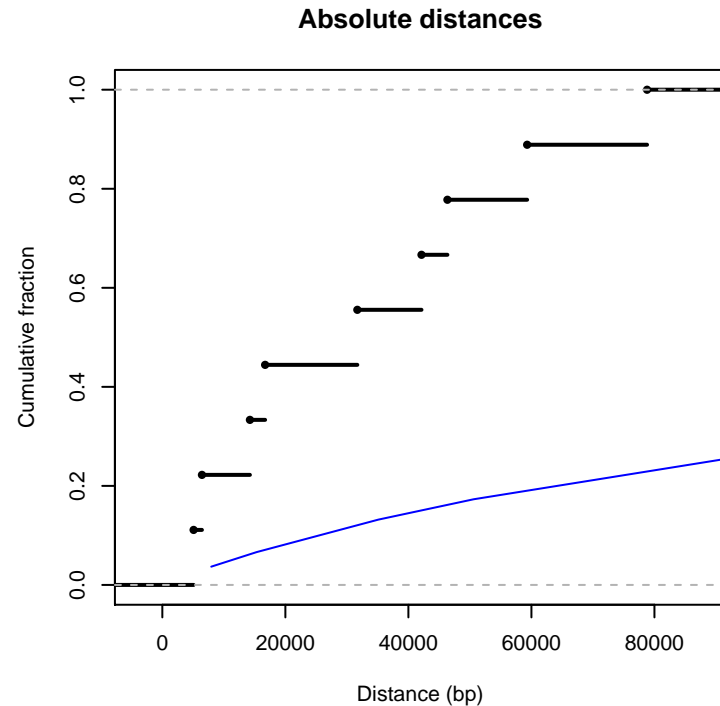


Relative distances



# pcontig\_047

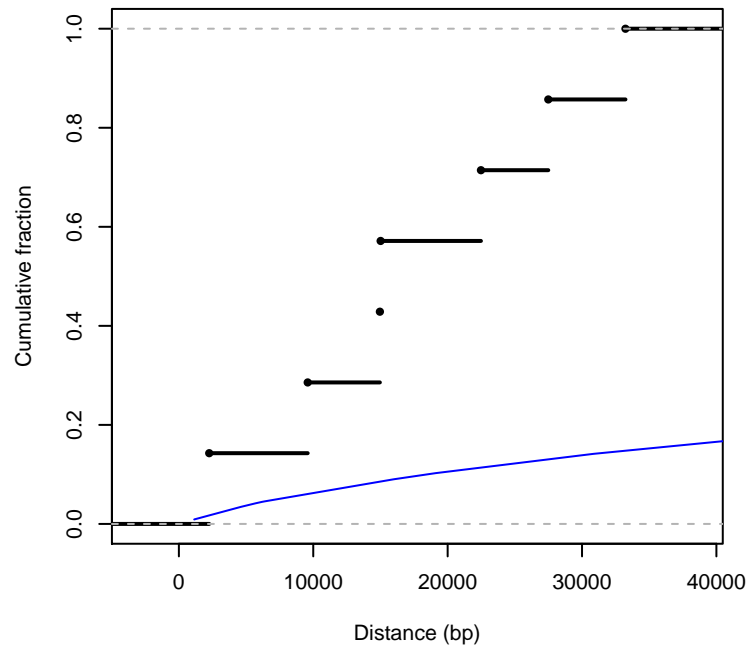
Query population : 9  
Reference population : 7  
Relative Ks p-value : 0.108786  
Relative ecdf deviation area : 0.0794636  
Relative ecdf area correlation : 0.305196  
Relative ecdf deviation area p-value : 0.07  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.06000000000000001  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0328347  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



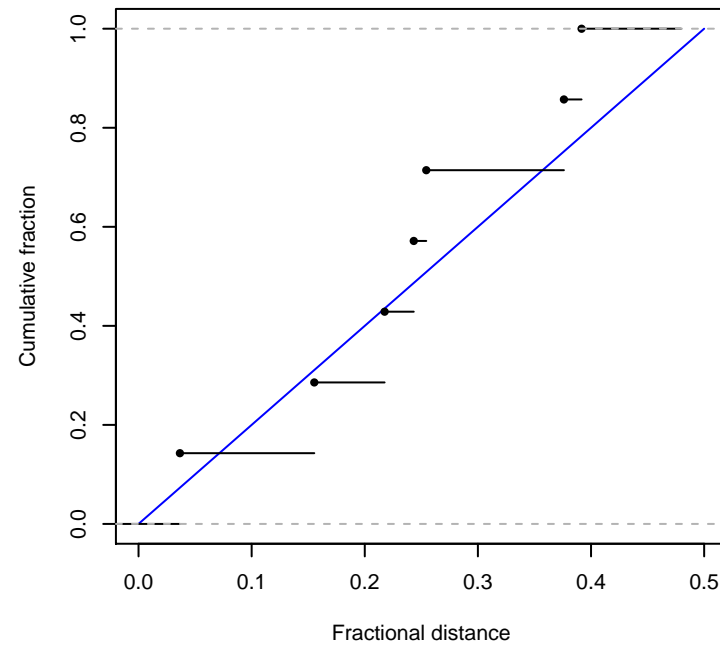
# pcontig\_048

Query population : 7  
Reference population : 12  
Relative Ks p-value : 0.834486  
Relative ecdf deviation area : 0.0406416  
Relative ecdf area correlation : 0.0429599  
Relative ecdf deviation area p-value : 0.73  
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 : 0.0497536  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

## Absolute distances

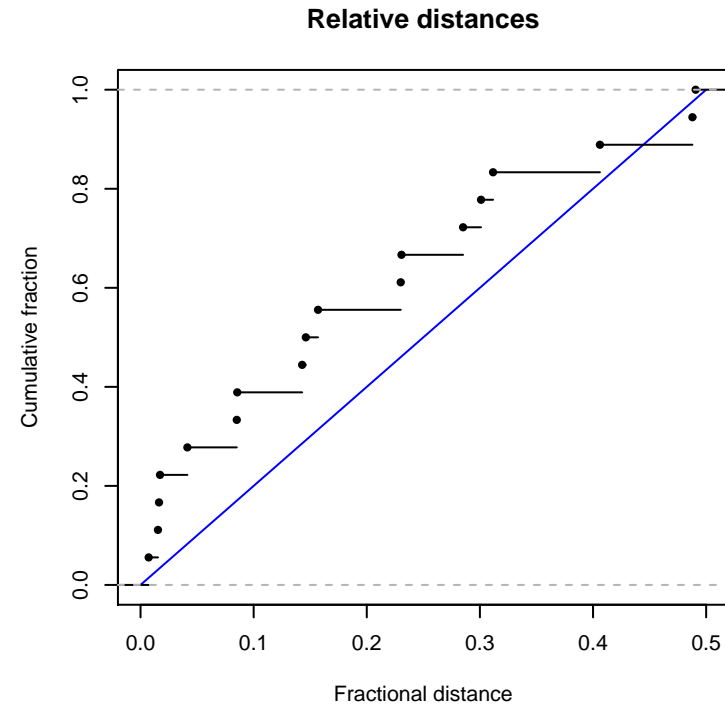
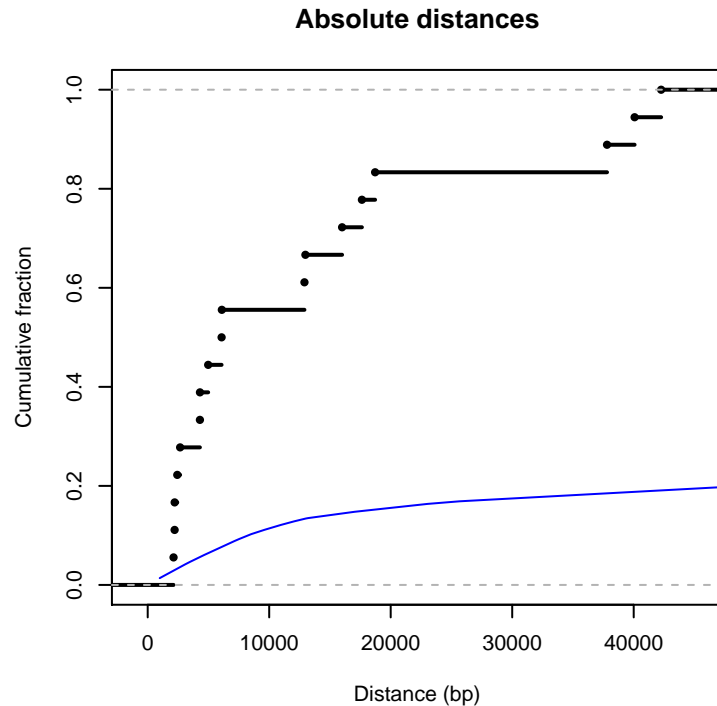


## Relative distances



# pcontig\_049

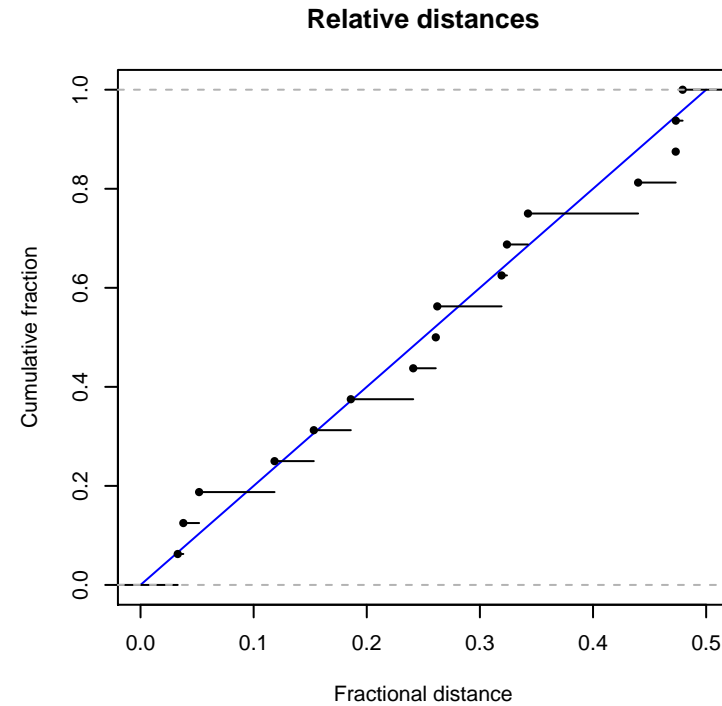
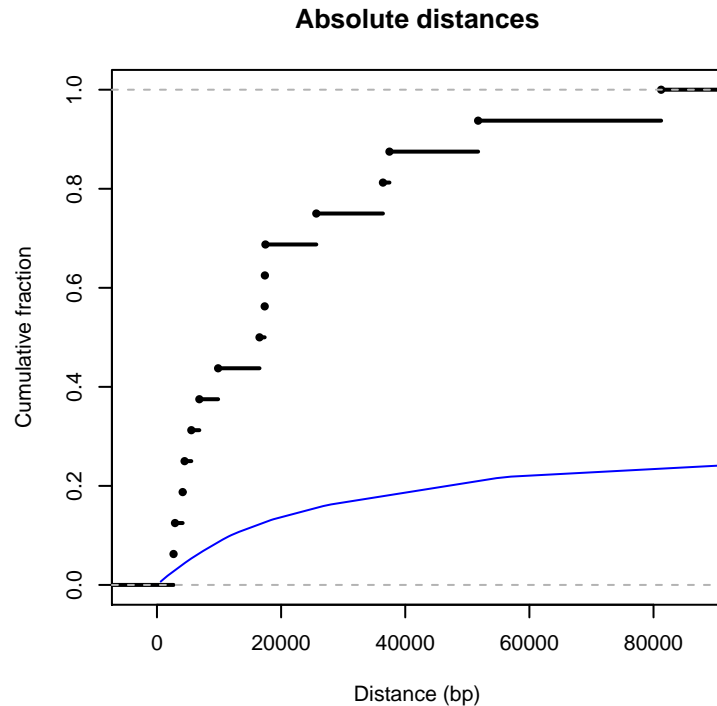
Query population : 18  
Reference population : 21  
Relative Ks p-value : 0.207026  
Relative ecdf deviation area : 0.0619388  
Relative ecdf area correlation : 0.231741  
Relative ecdf deviation area p-value : 0.11  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.3  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.308139  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





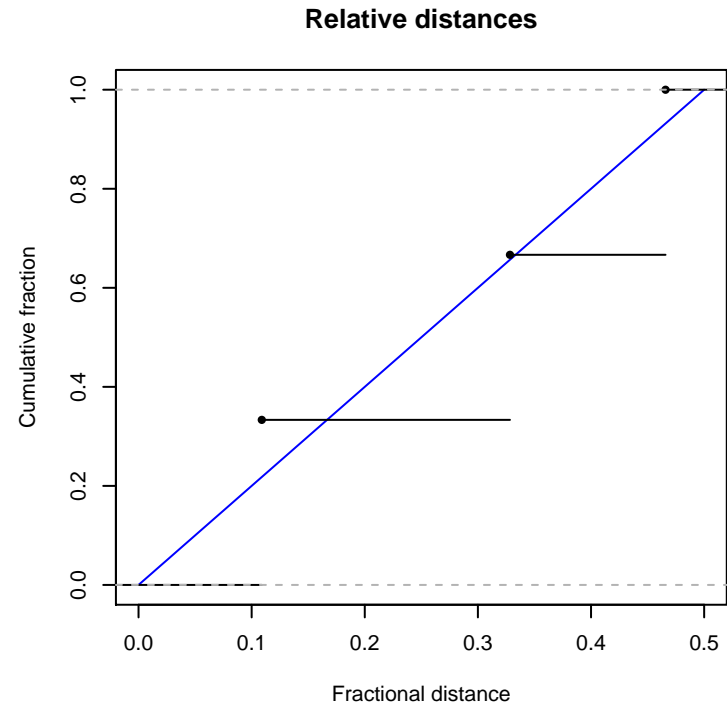
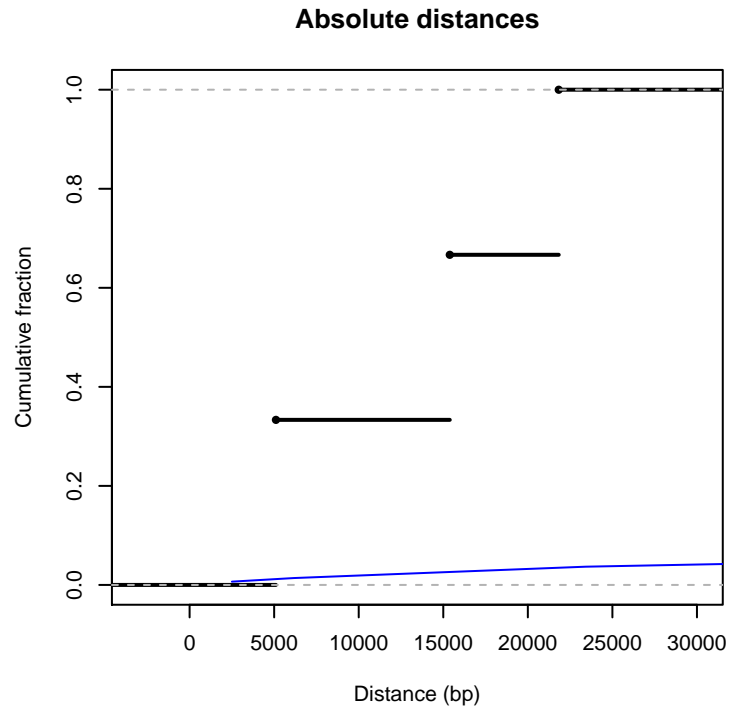
# pcontig\_050

Query population : 16  
Reference population : 17  
Relative Ks p-value : 0.901928  
Relative ecdf deviation area : 0.020751  
Relative ecdf area correlation : -0.0488424  
Relative ecdf deviation area p-value : 0.92  
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 : 0.20781  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_051

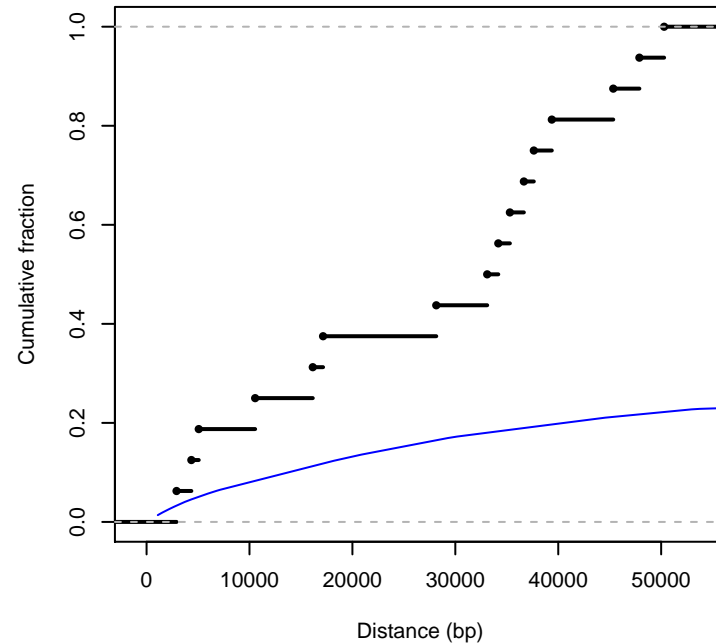
Query population : 3  
Reference population : 4  
Relative Ks p-value : 0.815286  
Relative ecdf deviation area : 0.0604686  
Relative ecdf area correlation : -0.20426  
Relative ecdf deviation area p-value : 0.83  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0103715  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



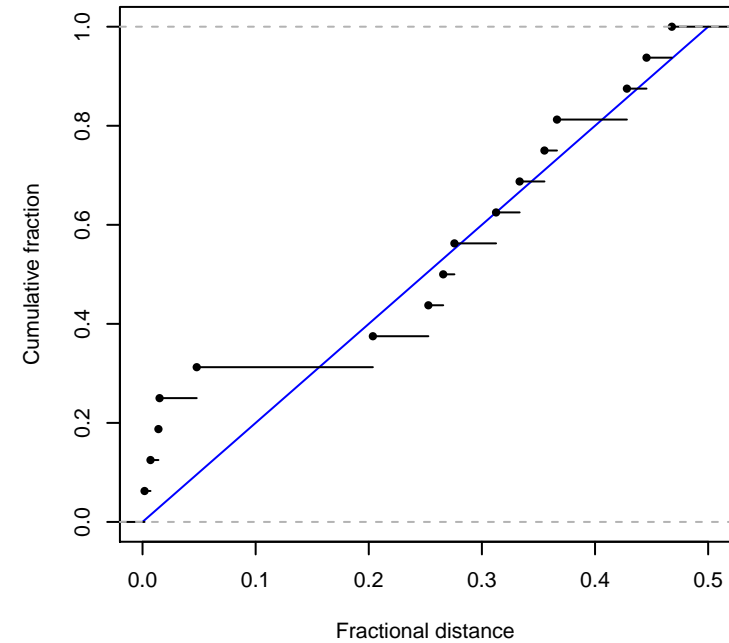
# pcontig\_052

Query population : 16  
Reference population : 19  
Relative Ks p-value : 0.367166  
Relative ecdf deviation area : 0.032673  
Relative ecdf area correlation : 0.0517981  
Relative ecdf deviation area p-value : 0.63  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.31  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.242417  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

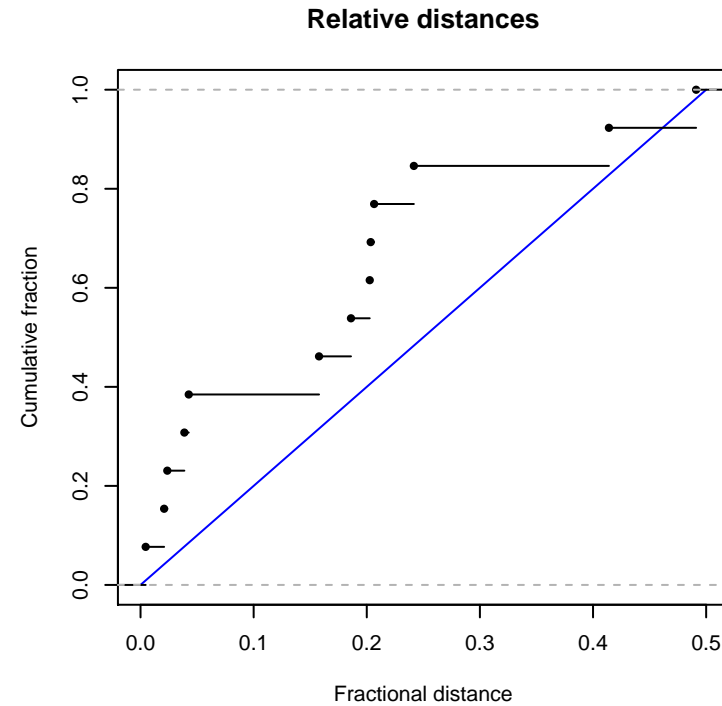
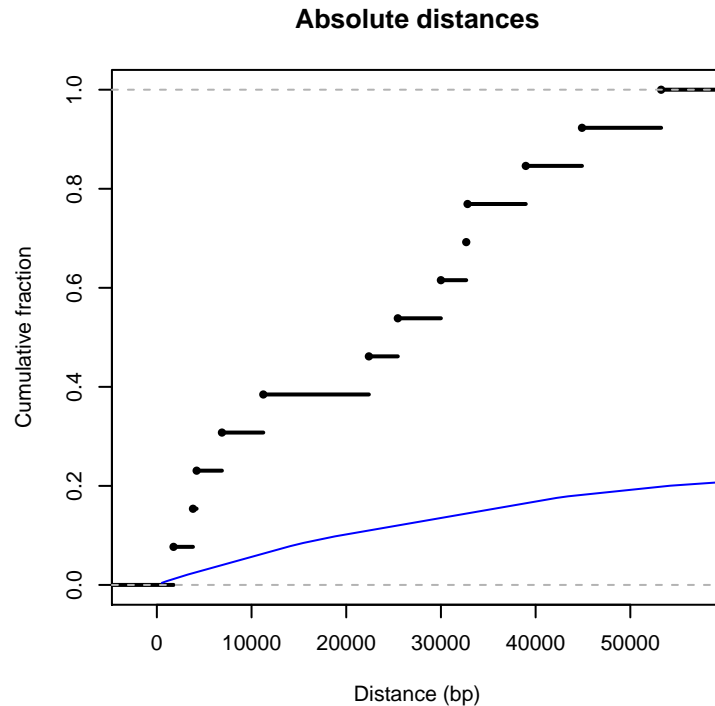


Relative distances



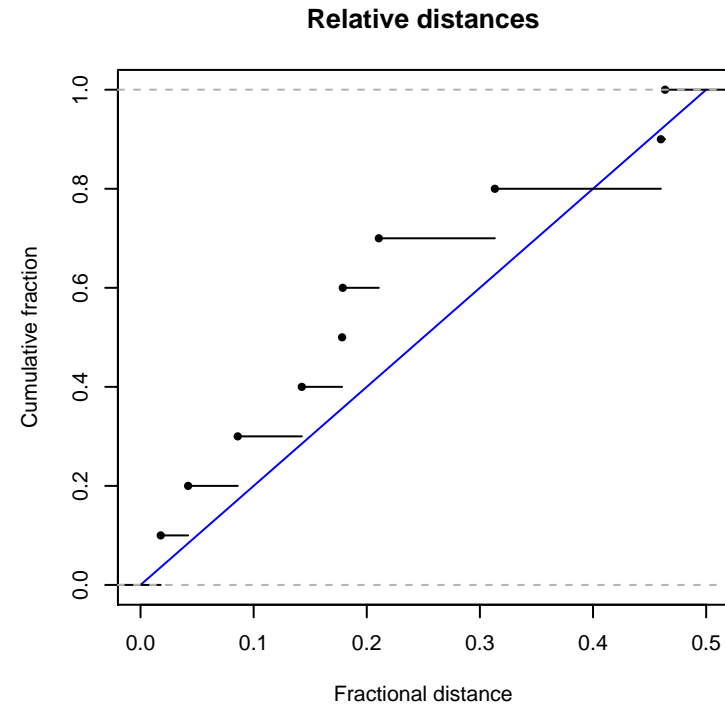
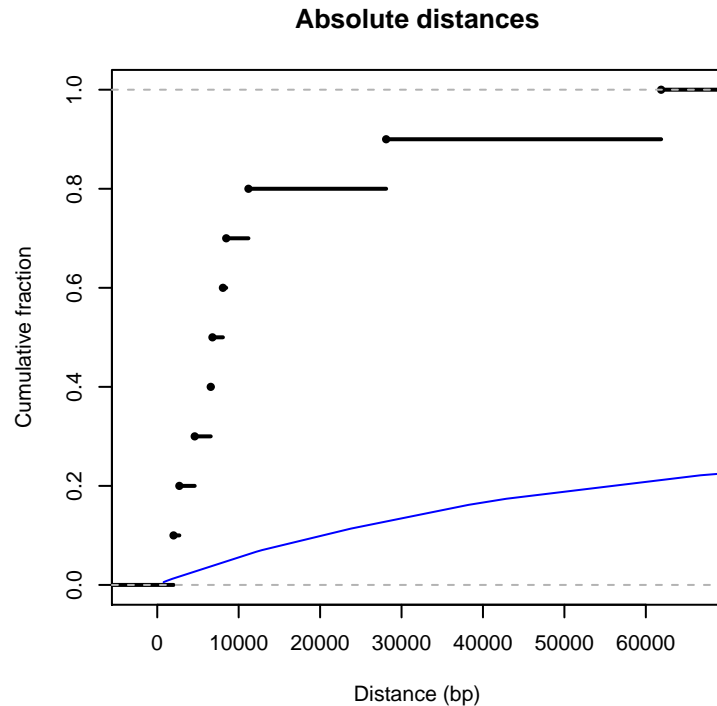
# pcontig\_054

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



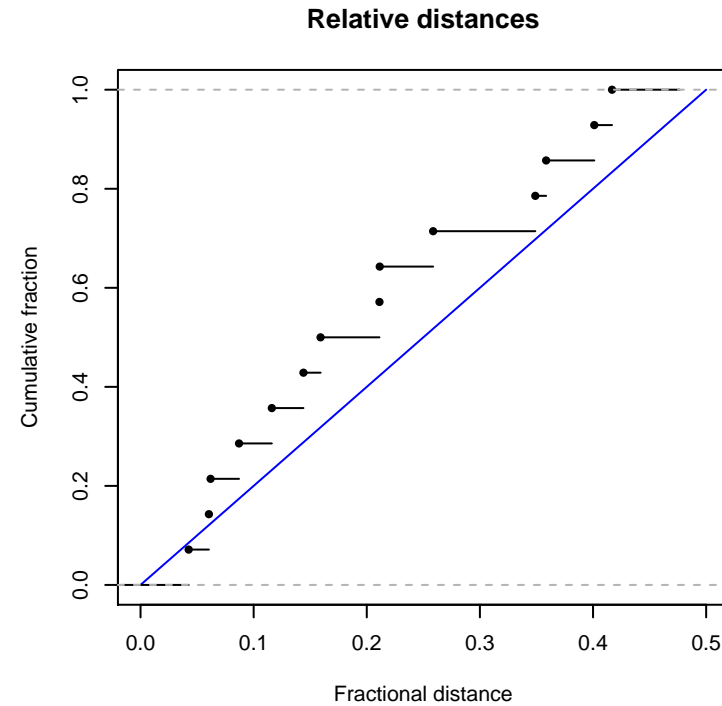
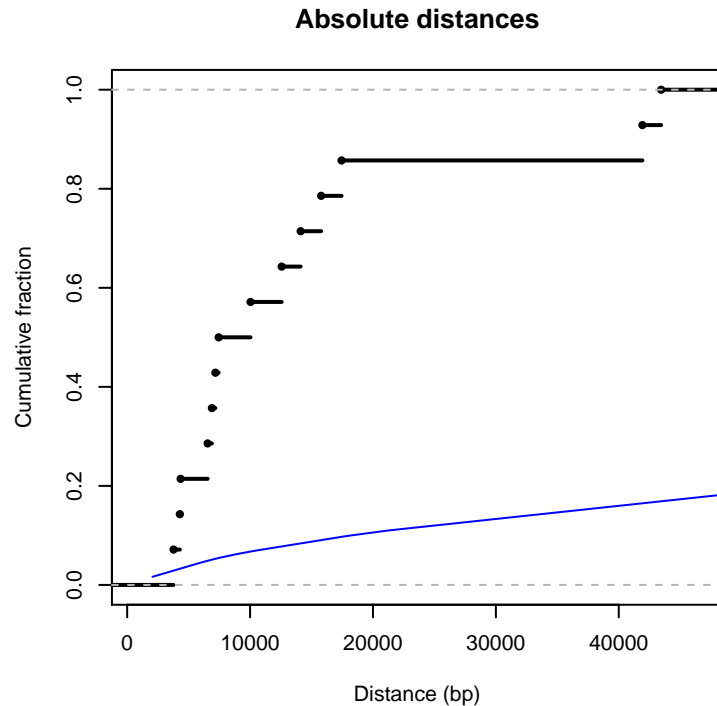
# pcontig\_055

Query population : 10  
Reference population : 11  
Relative Ks p-value : 0.351666  
Relative ecdf deviation area : 0.048589  
Relative ecdf area correlation : 0.162797  
Relative ecdf deviation area p-value : 0.33  
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 : 0.081444  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



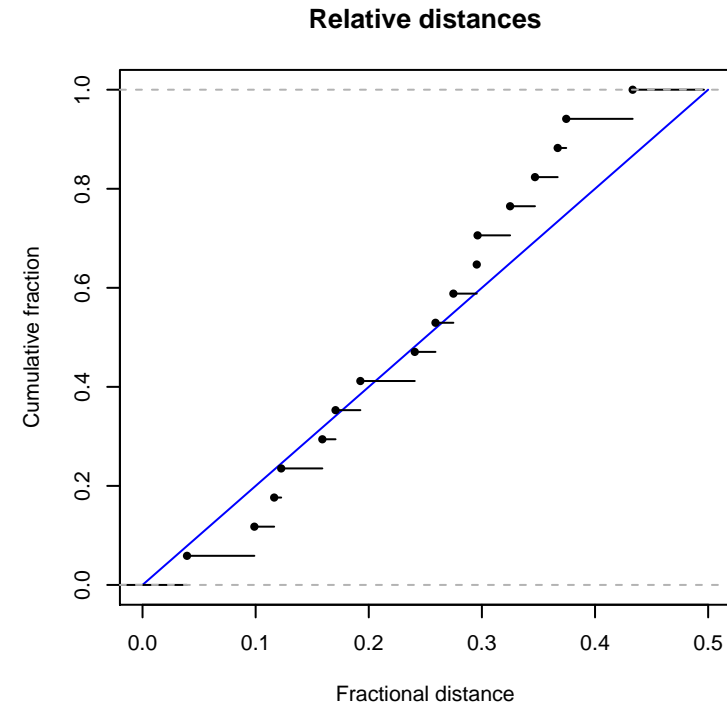
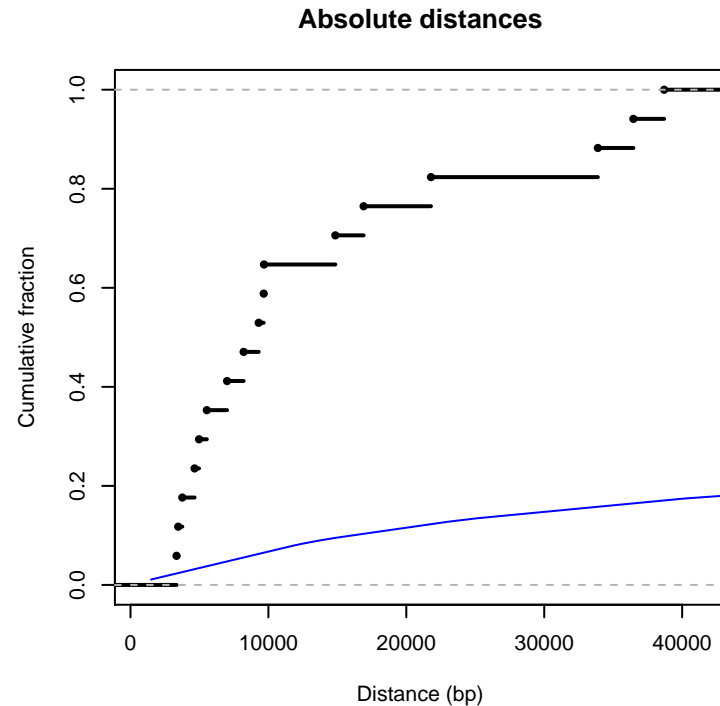
# pcontig\_056

Query population : 14  
Reference population : 12  
Relative Ks p-value : 0.44422  
Relative ecdf deviation area : 0.0492762  
Relative ecdf area correlation : 0.177734  
Relative ecdf deviation area p-value : 0.32  
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 : 0.22297  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



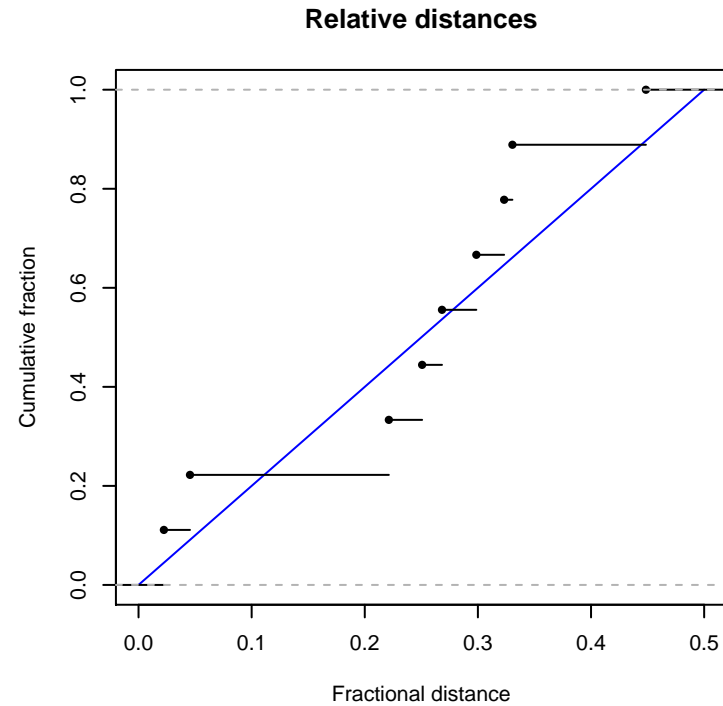
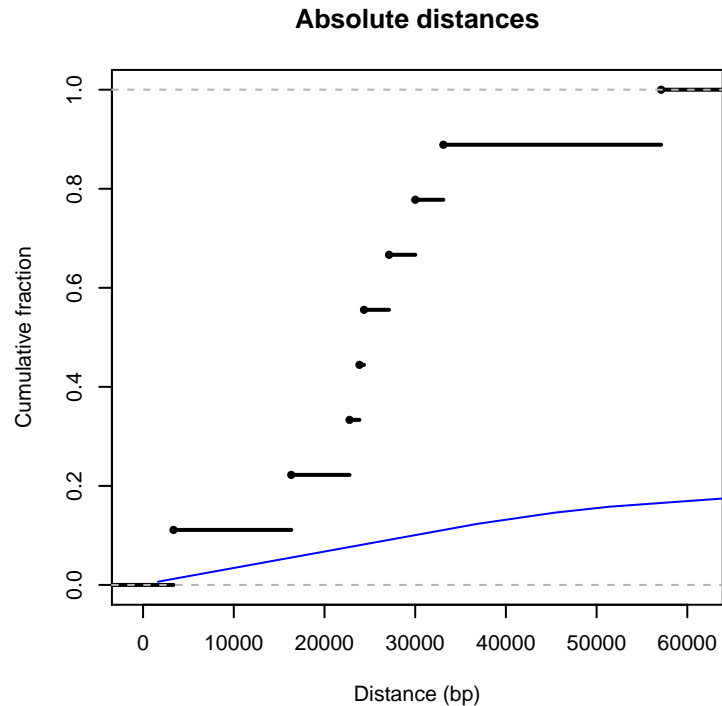
# pcontig\_057

Query population : 17  
Reference population : 11  
Relative Ks p-value : 0.497832  
Relative ecdf deviation area : 0.0331283  
Relative ecdf area correlation : 0.032479  
Relative ecdf deviation area p-value : 0.58  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.22  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.154861  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_058

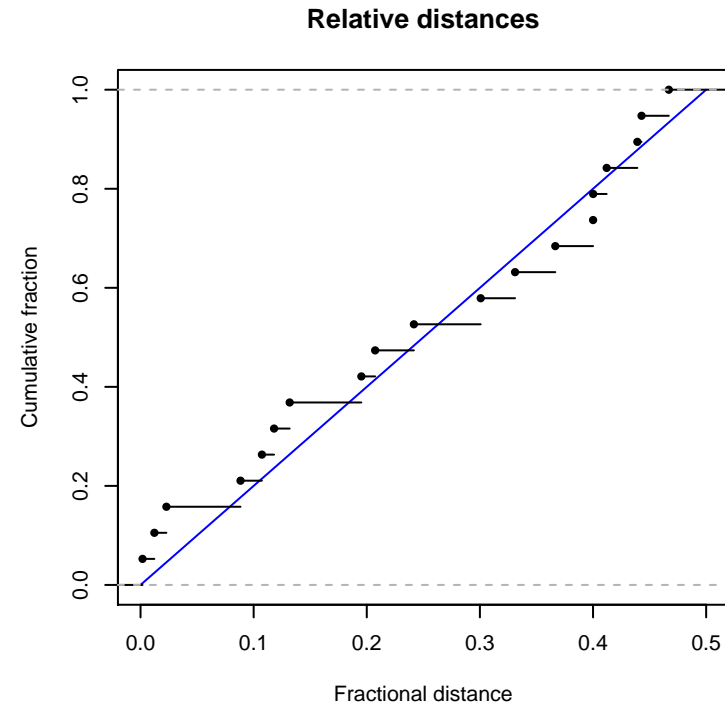
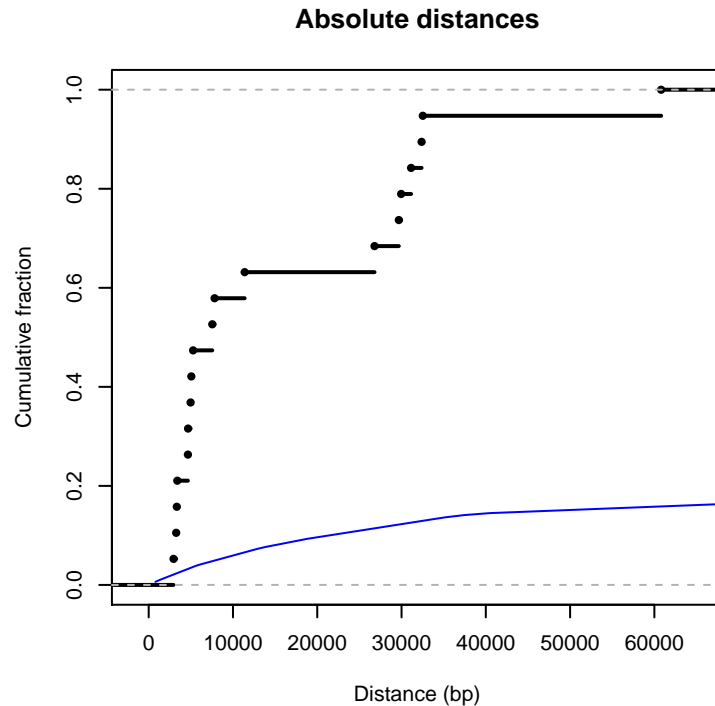
Query population : 9  
Reference population : 6  
Relative Ks p-value : 0.658957  
Relative ecdf deviation area : 0.0413921  
Relative ecdf area correlation : 0.0182404  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.07  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0384815  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





# pcontig\_059

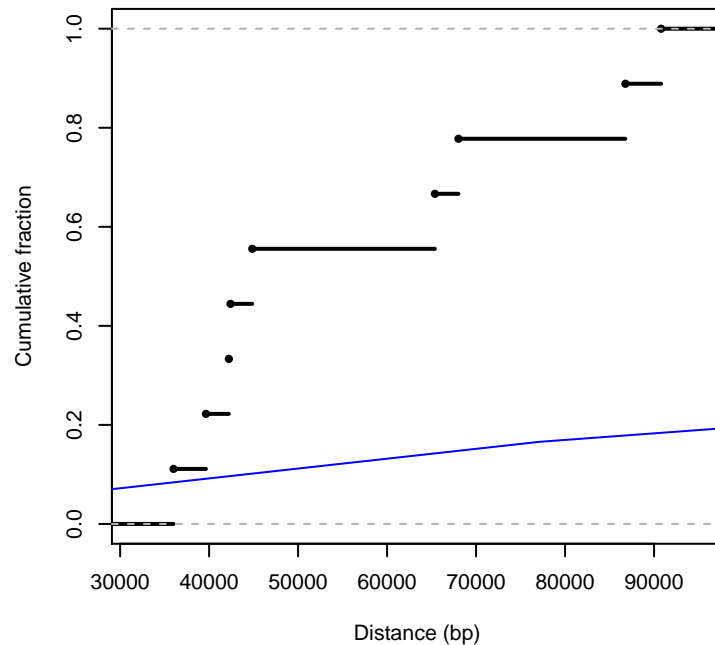
Query population : 19  
Reference population : 12  
Relative Ks p-value : 0.935087  
Relative ecdf deviation area : 0.0213568  
Relative ecdf area correlation : 0.013363  
Relative ecdf deviation area p-value : 0.85  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.3  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.17065  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



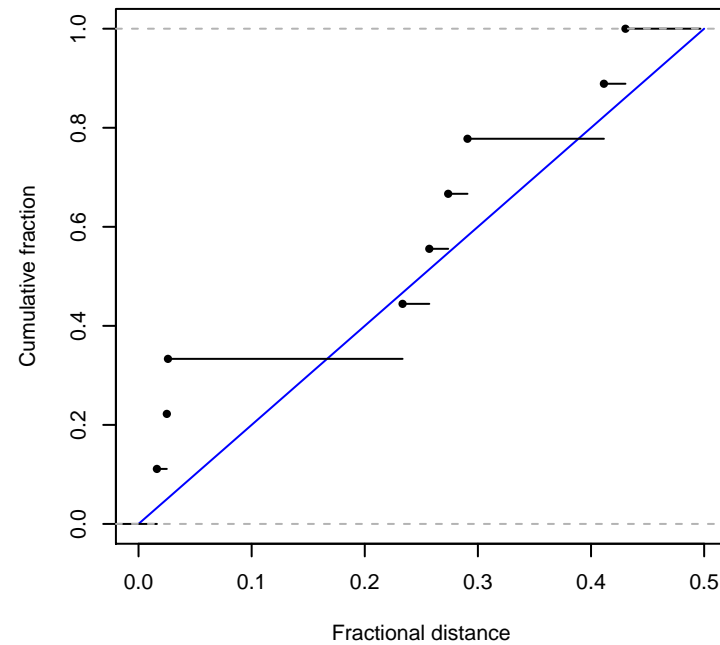
# pcontig\_060

Query population : 9  
Reference population : 5  
Relative Ks p-value : 0.400265  
Relative ecdf deviation area : 0.0446268  
Relative ecdf area correlation : 0.127074  
Relative ecdf deviation area p-value : 0.65  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0430921  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

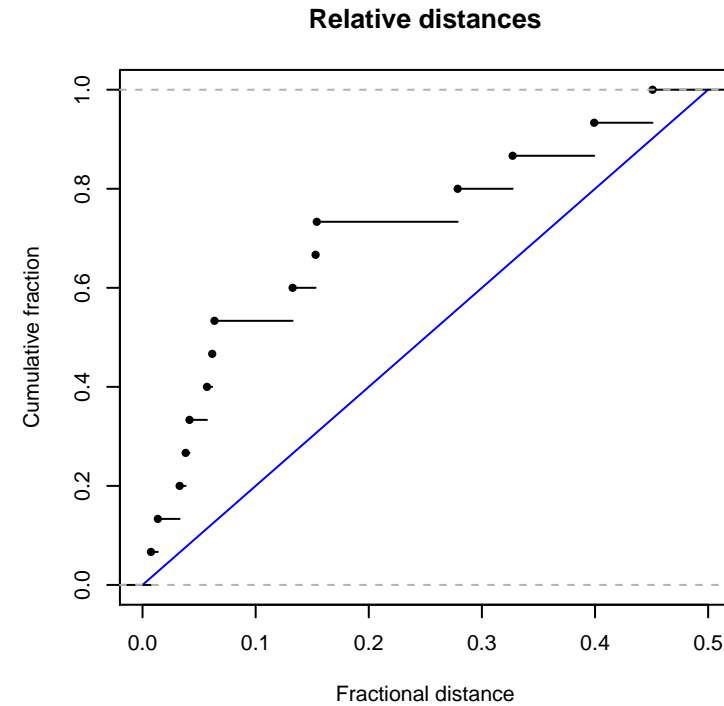
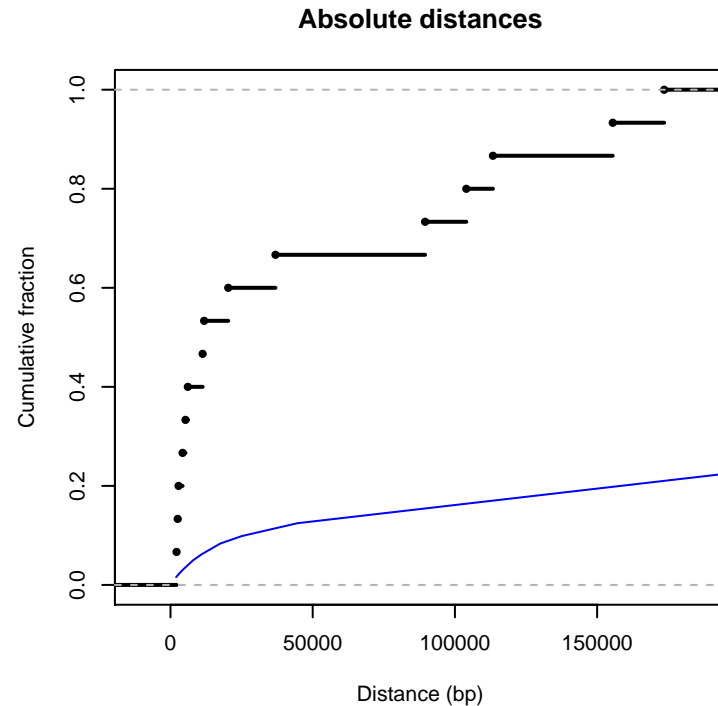


Relative distances



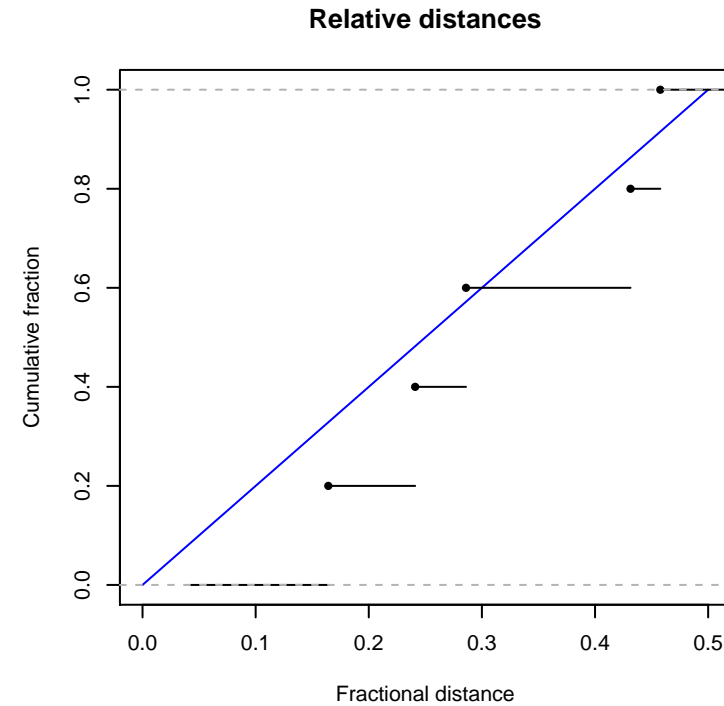
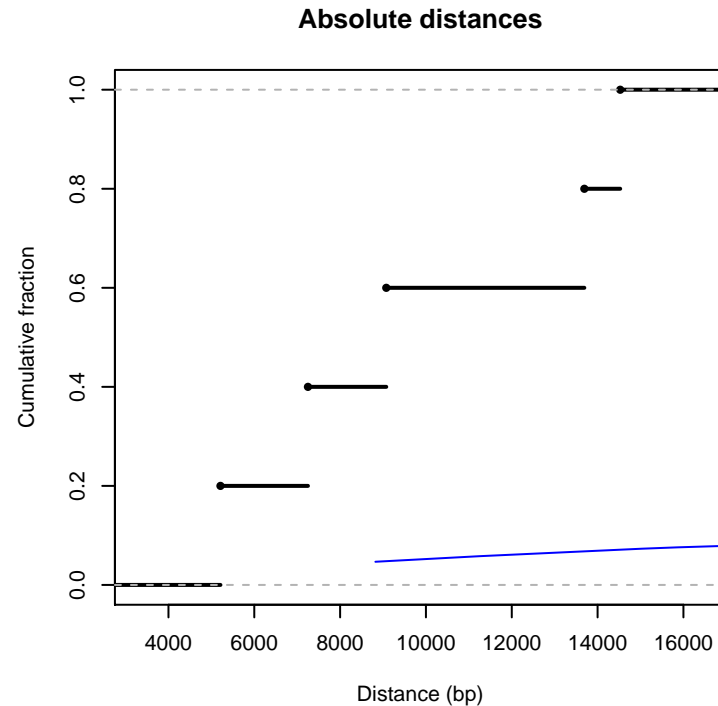
# pcontig\_062

Query population : 15  
Reference population : 12  
Relative Ks p-value : 0.00561057  
Relative ecdf deviation area : 0.102582  
Relative ecdf area correlation : 0.41037  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.17  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.154561  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



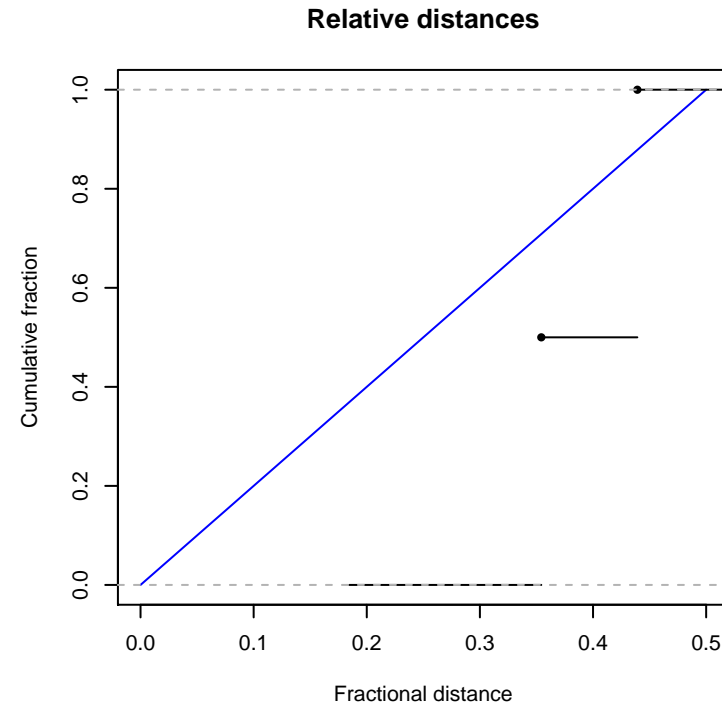
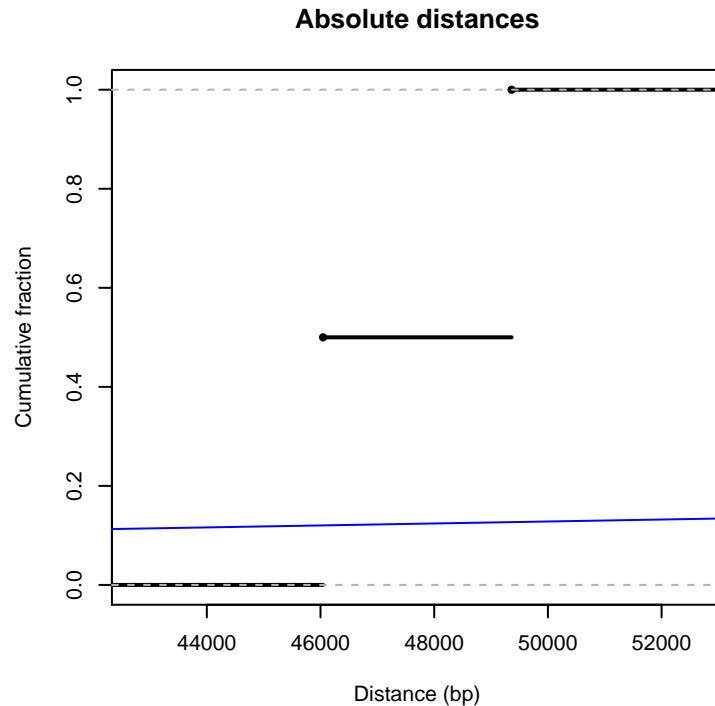
# pcontig\_064

Query population : 5  
Reference population : 8  
Relative Ks p-value : 0.552033  
Relative ecdf deviation area : 0.0701695  
Relative ecdf area correlation : -0.264218  
Relative ecdf deviation area p-value : 0.4  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0280817  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



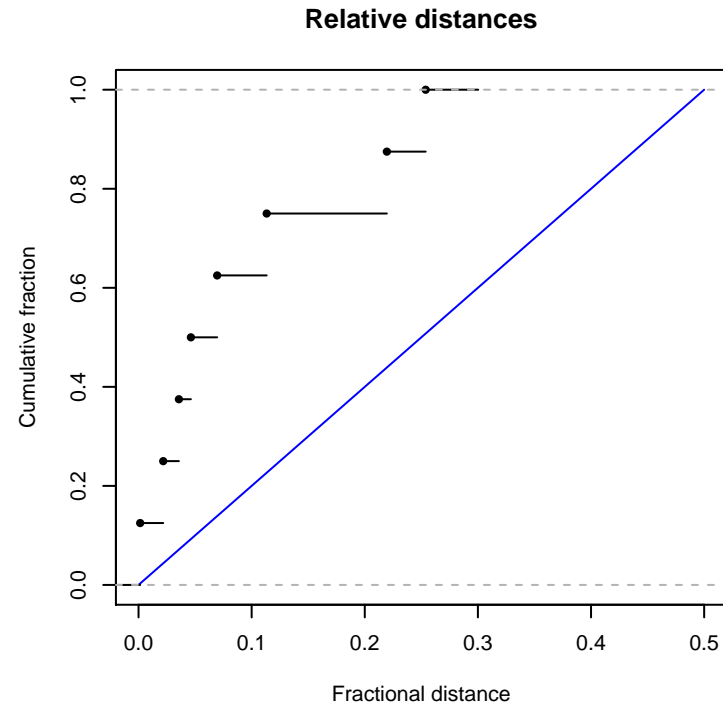
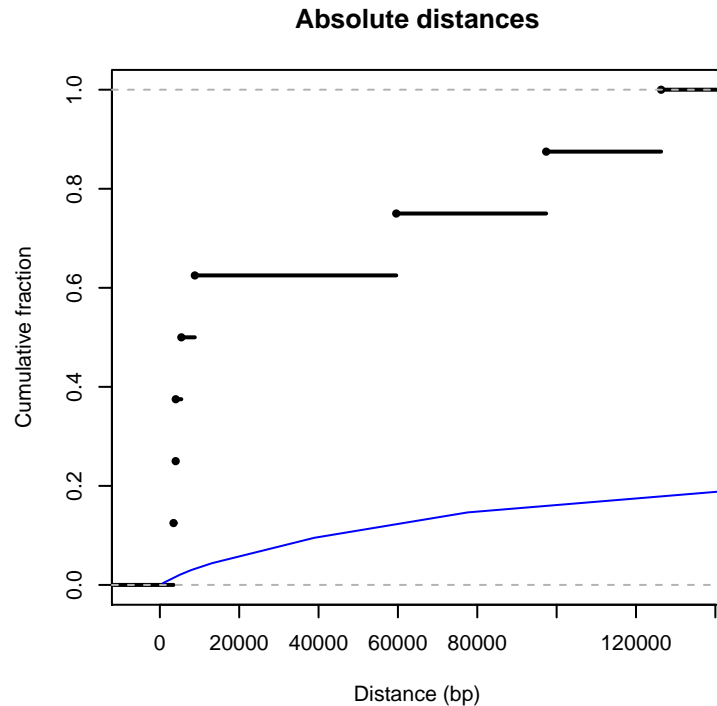
# pcontig\_065

Query population : 2  
Reference population : 8  
Relative Ks p-value : 0.169898  
Relative ecdf deviation area : 0.153746  
Relative ecdf area correlation : -0.586901  
Relative ecdf deviation area p-value : 0.22  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0145616  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



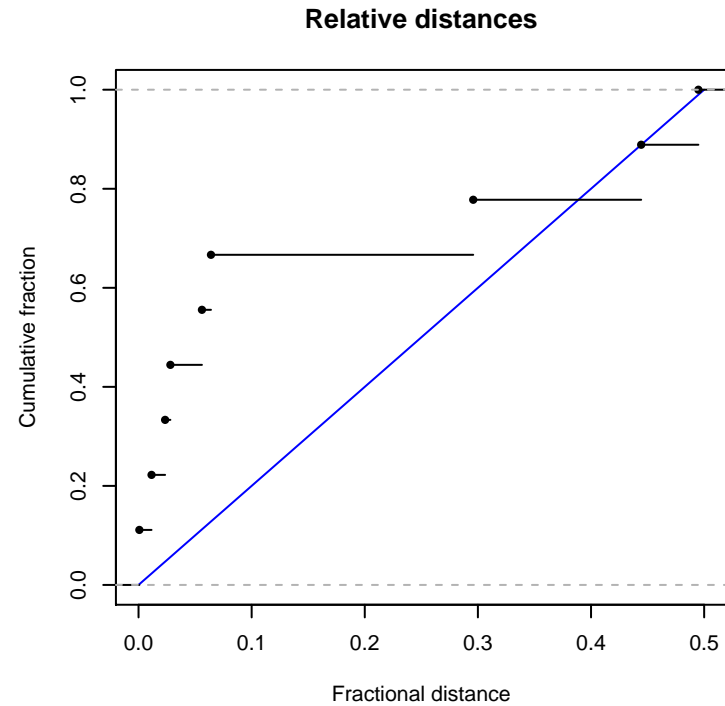
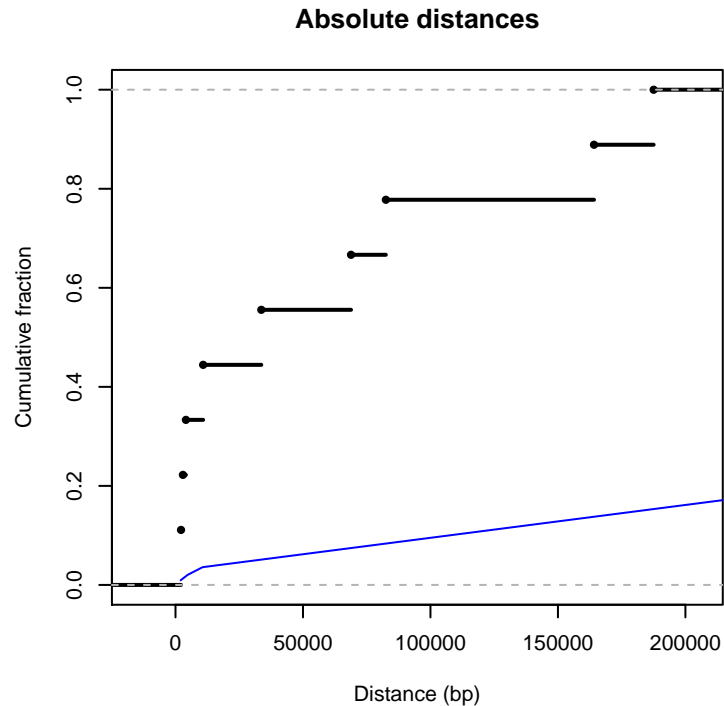
# pcontig\_066

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



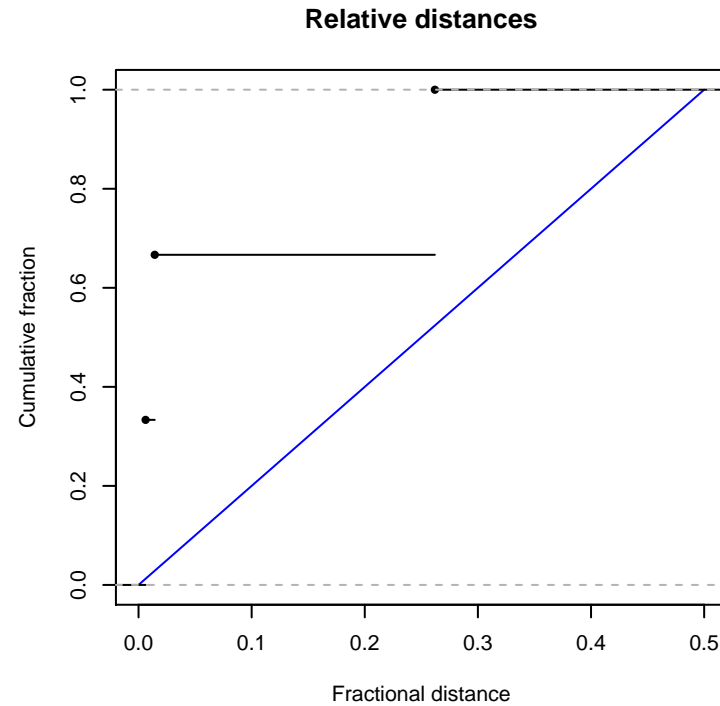
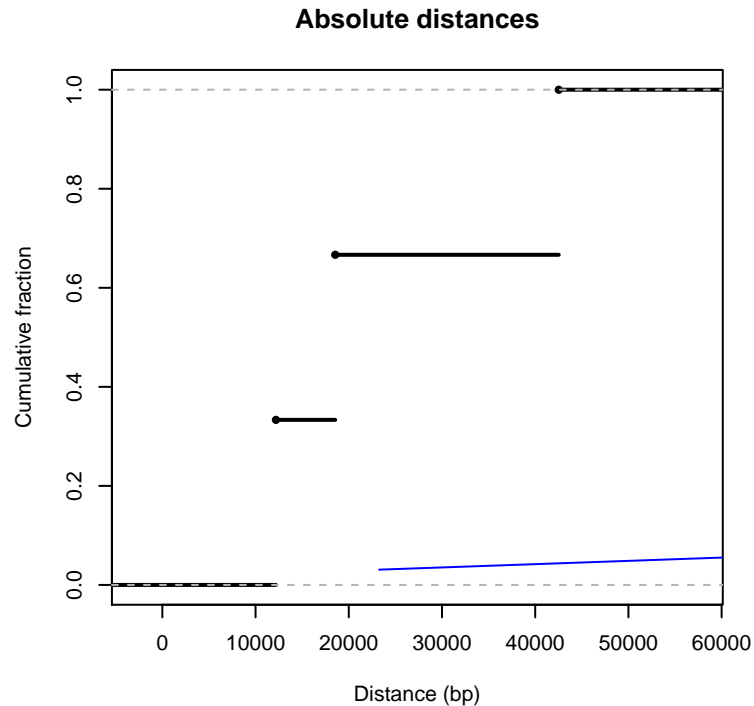
# pcontig\_067

Query population : 9  
Reference population : 7  
Relative Ks p-value : 0.00572035  
Relative ecdf deviation area : 0.103116  
Relative ecdf area correlation : 0.369276  
Relative ecdf deviation area p-value : 0.05  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0508021  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_068

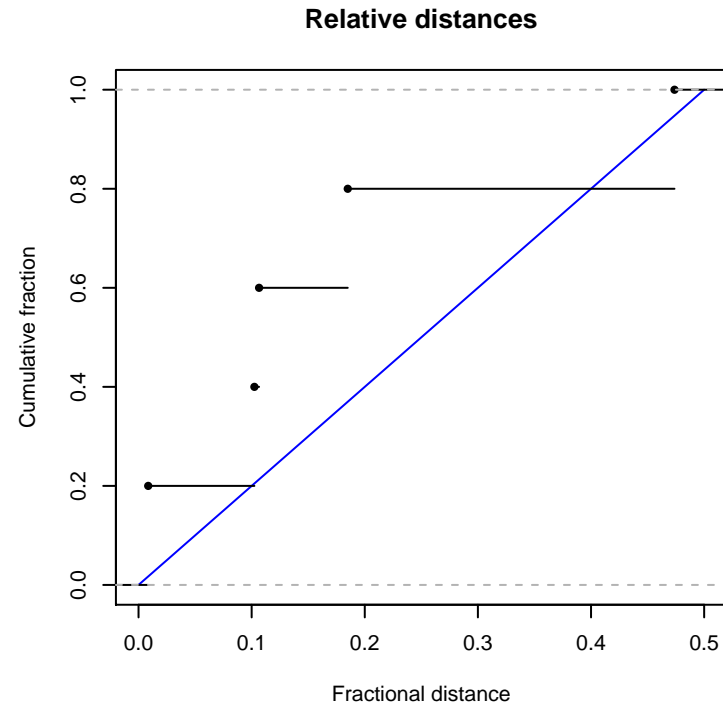
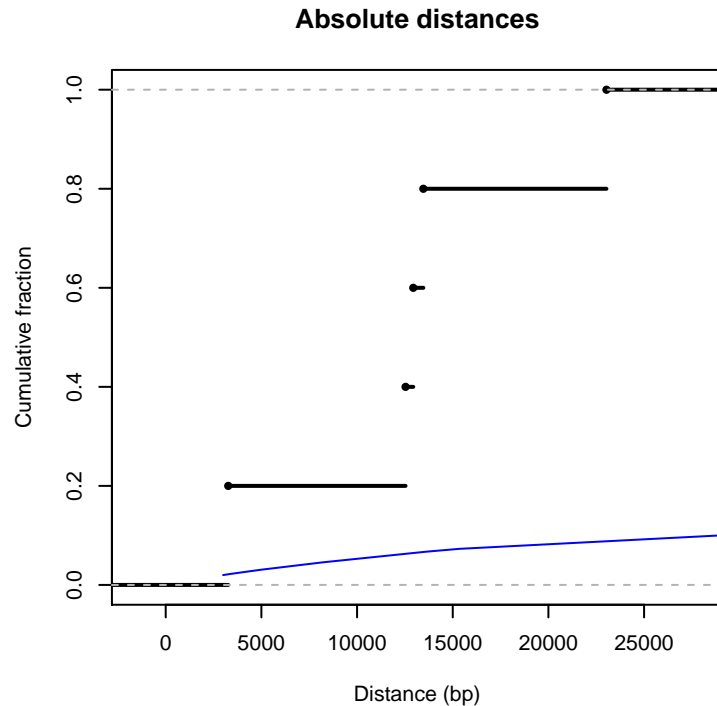
Query population : 3  
Reference population : 2  
Relative Ks p-value : 0.0980028  
Relative ecdf deviation area : 0.156038  
Relative ecdf area correlation : 0.623284  
Relative ecdf deviation area p-value : 0.06000000000000001  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00289533  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





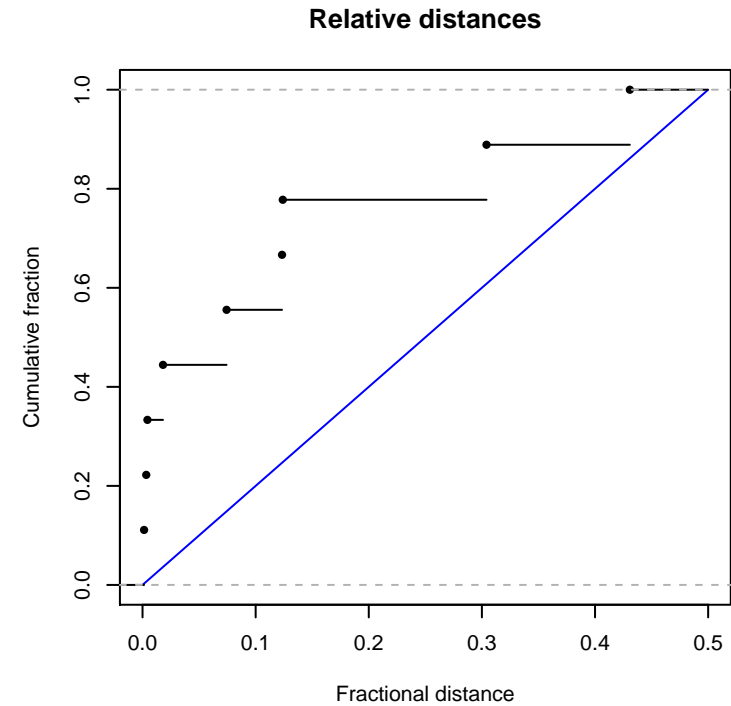
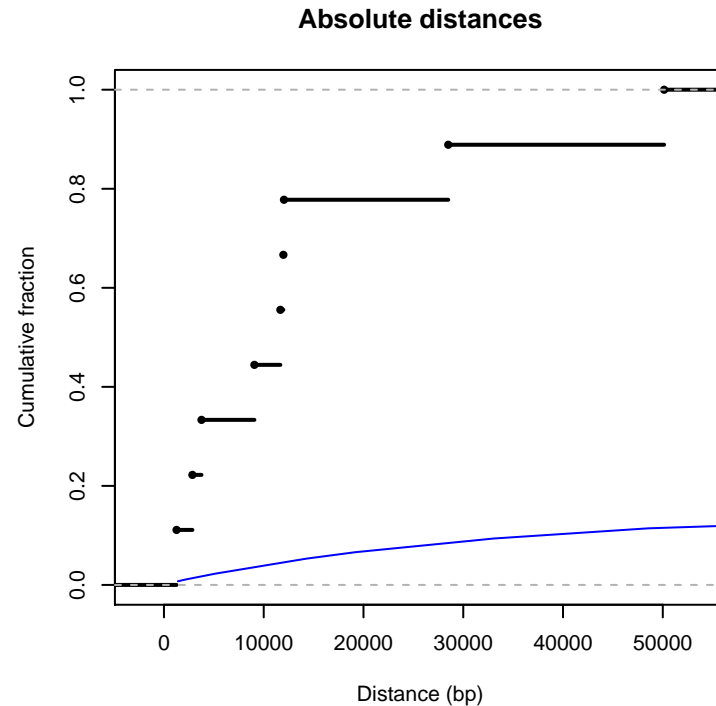
# pcontig\_069

Query population : 5  
Reference population : 10  
Relative Ks p-value : 0.235775  
Relative ecdf deviation area : 0.0860955  
Relative ecdf area correlation : 0.298955  
Relative ecdf deviation area p-value : 0.31  
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 : 0.0310296  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



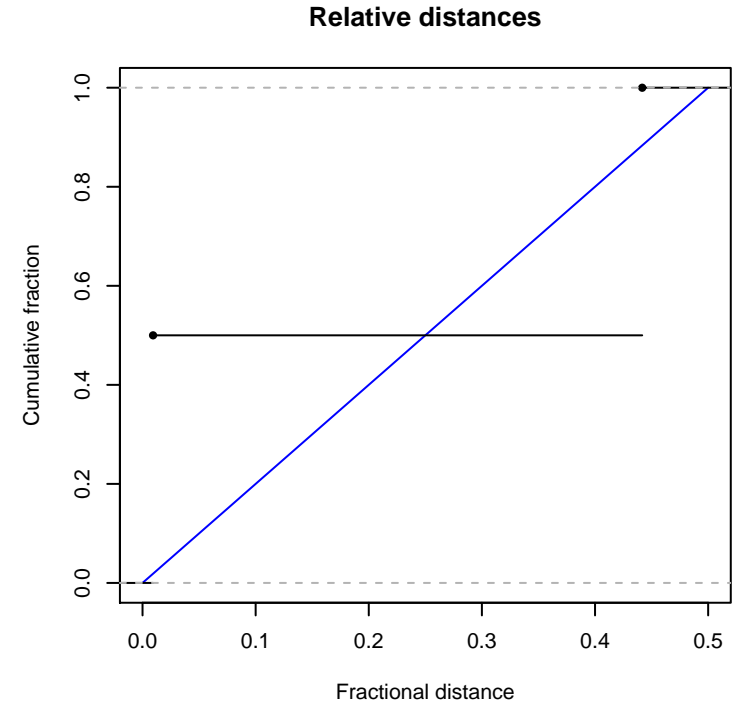
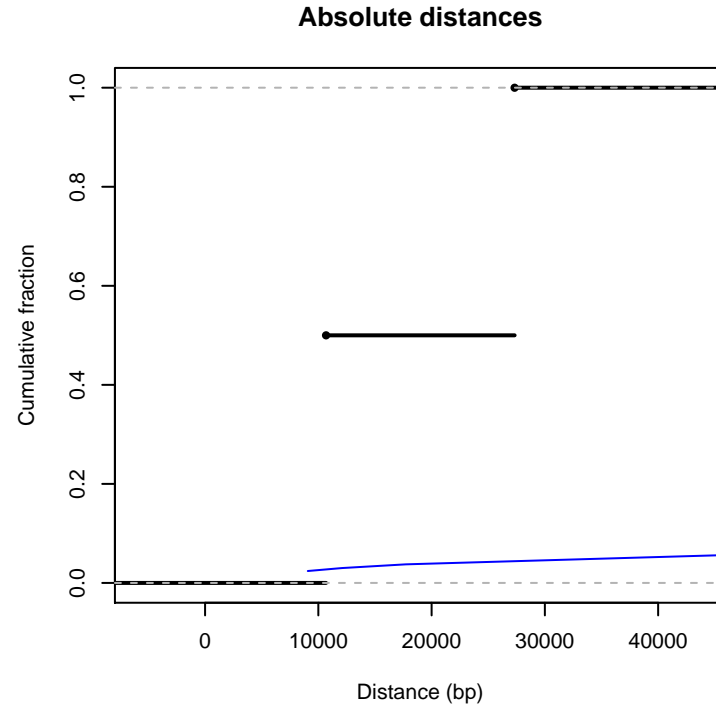
# pcontig\_070

Query population : 9  
Reference population : 8  
Relative Ks p-value : 0.00697191  
Relative ecdf deviation area : 0.129174  
Relative ecdf area correlation : 0.518417  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.08  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0524763  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



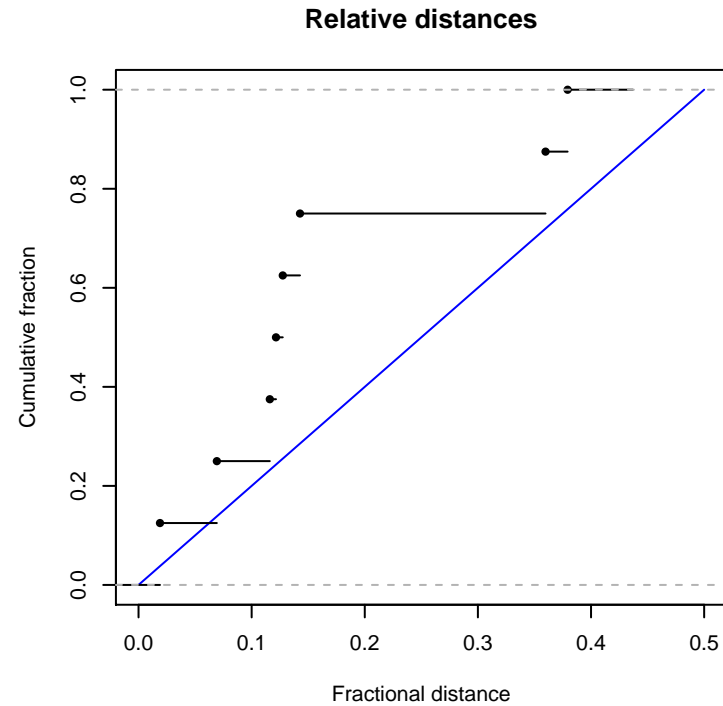
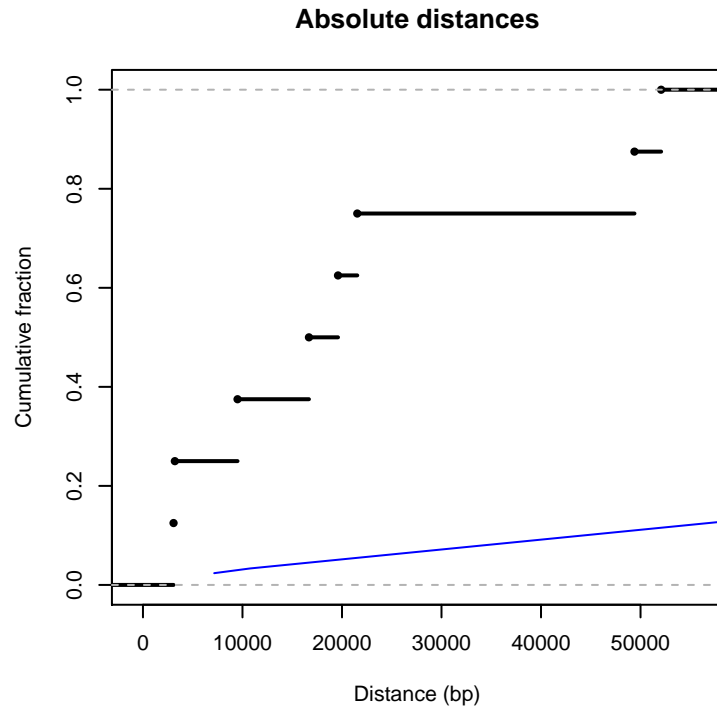
# pcontig\_072

Query population : 2  
Reference population : 4  
Relative Ks p-value : 0.571653  
Relative ecdf deviation area : 0.0983176  
Relative ecdf area correlation : 0.0979908  
Relative ecdf deviation area p-value : 0.51  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00879402  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



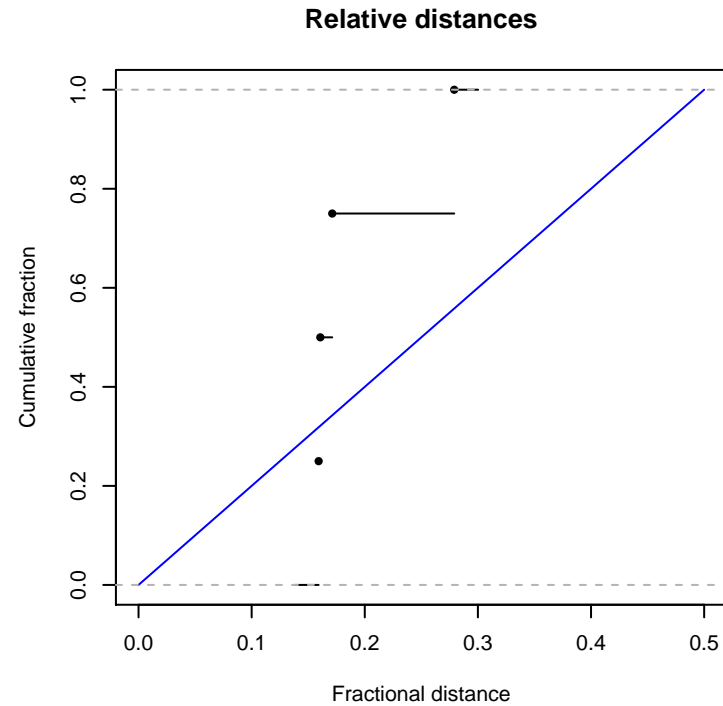
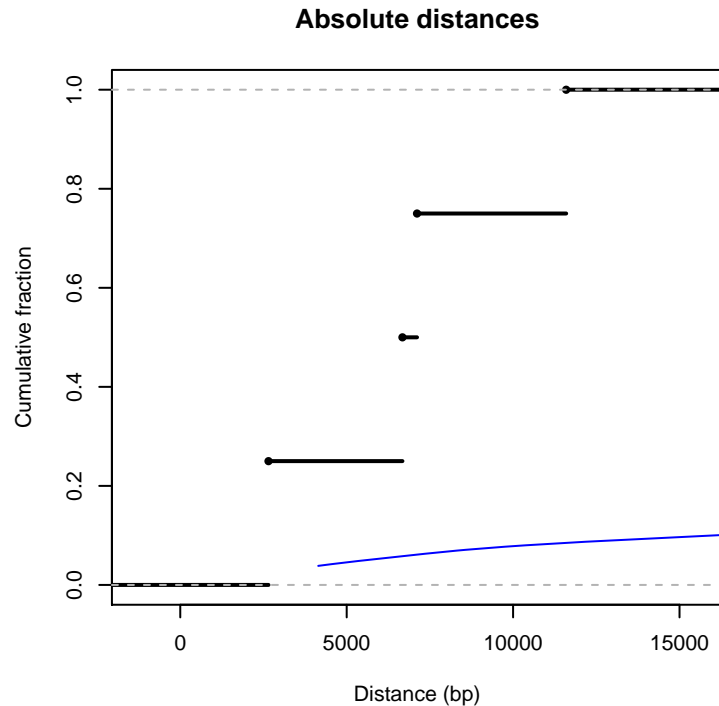
# pcontig\_073

Query population : 8  
Reference population : 5  
Relative Ks p-value : 0.0421721  
Relative ecdf deviation area : 0.0826566  
Relative ecdf area correlation : 0.332435  
Relative ecdf deviation area p-value : 0.09  
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 : 0.0273464  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



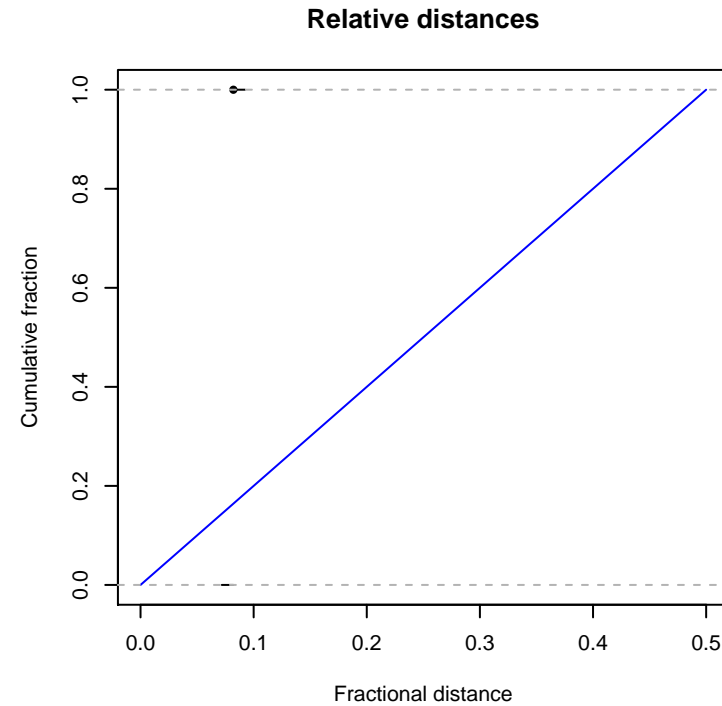
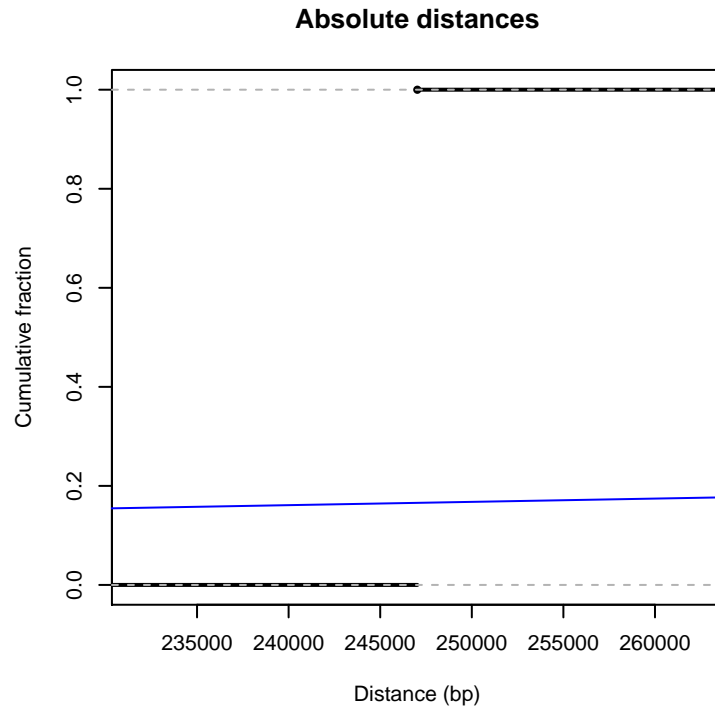
# pcontig\_074

Query population : 4  
Reference population : 14  
Relative Ks p-value : 0.314205  
Relative ecdf deviation area : 0.108305  
Relative ecdf area correlation : 0.229786  
Relative ecdf deviation area p-value : 0.22  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.15  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0479387  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



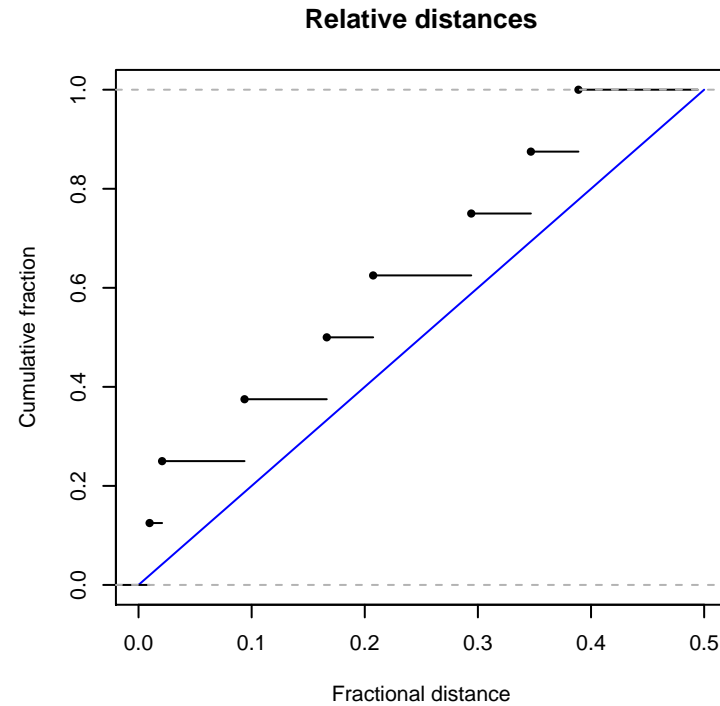
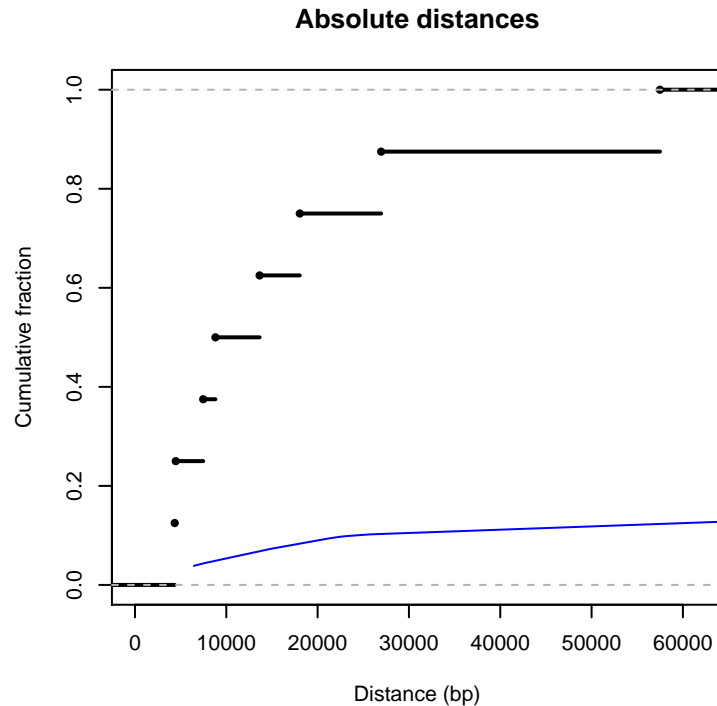
# pcontig\_075

Query population : 1  
Reference population : 2  
Relative Ks p-value : 0.328313  
Relative ecdf deviation area : 0.181427  
Relative ecdf area correlation : 0.671687  
Relative ecdf deviation area p-value : 0.32  
Scaled Absolute min. distance p-value : 0.12  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000835712  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



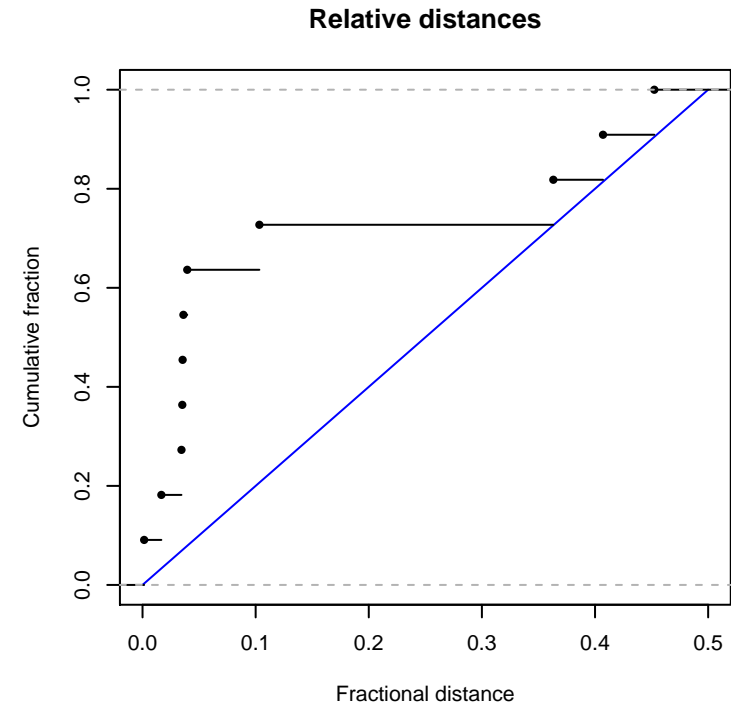
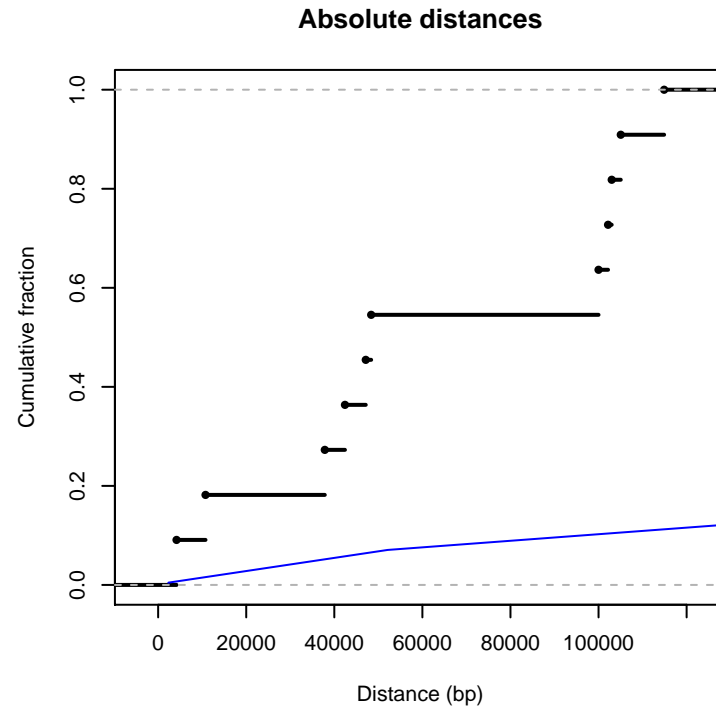
# pcontig\_077

Query population : 8  
Reference population : 9  
Relative Ks p-value : 0.748712  
Relative ecdf deviation area : 0.0593159  
Relative ecdf area correlation : 0.236018  
Relative ecdf deviation area p-value : 0.34  
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 : 0.0528048  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_078

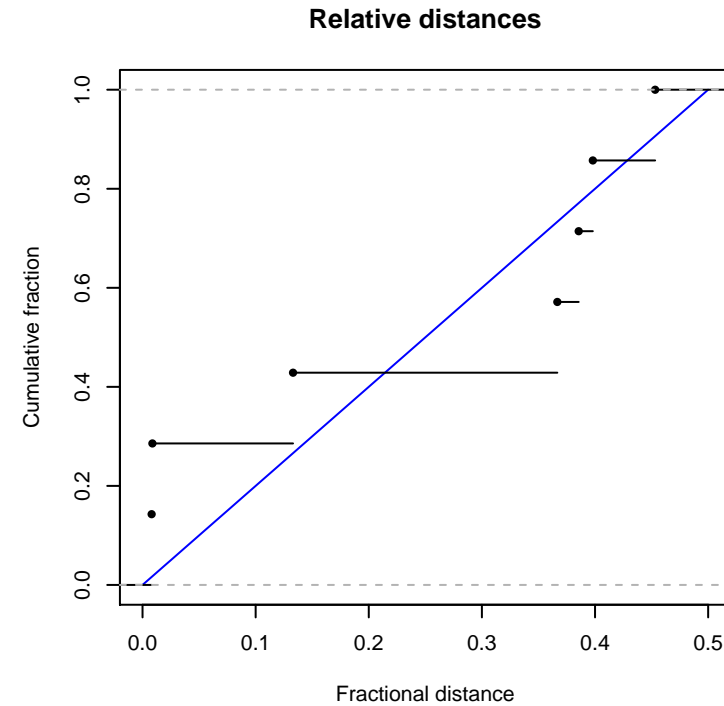
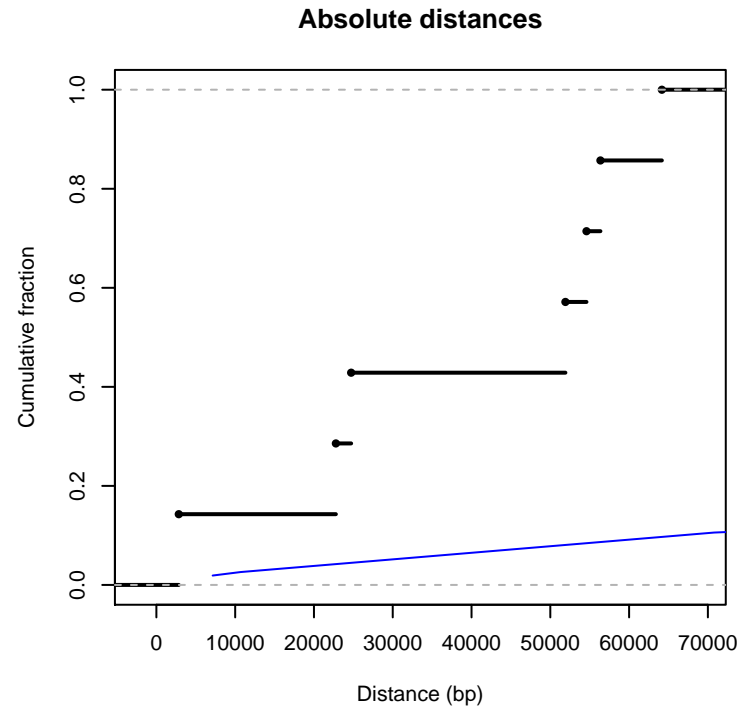
Query population : 11  
Reference population : 3  
Relative Ks p-value : 0.000959286  
Relative ecdf deviation area : 0.111486  
Relative ecdf area correlation : 0.445576  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0203294  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





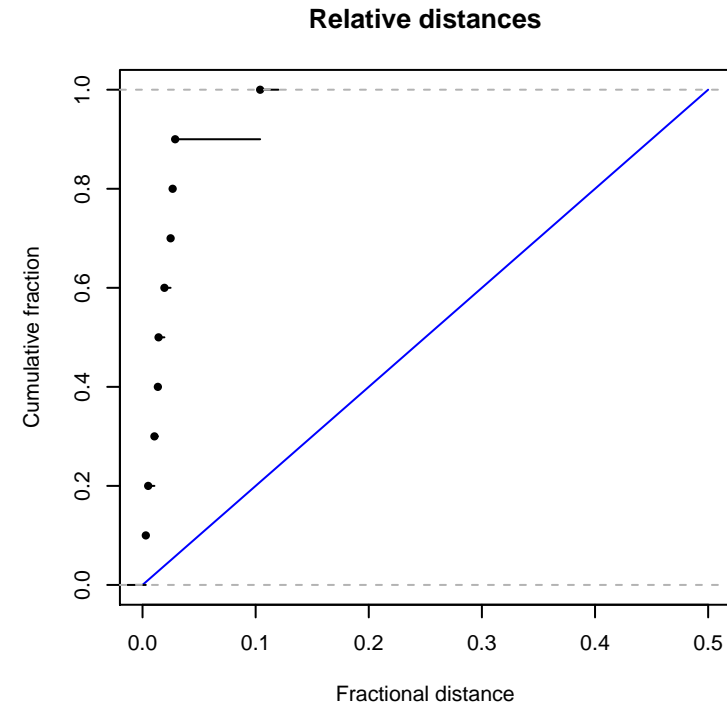
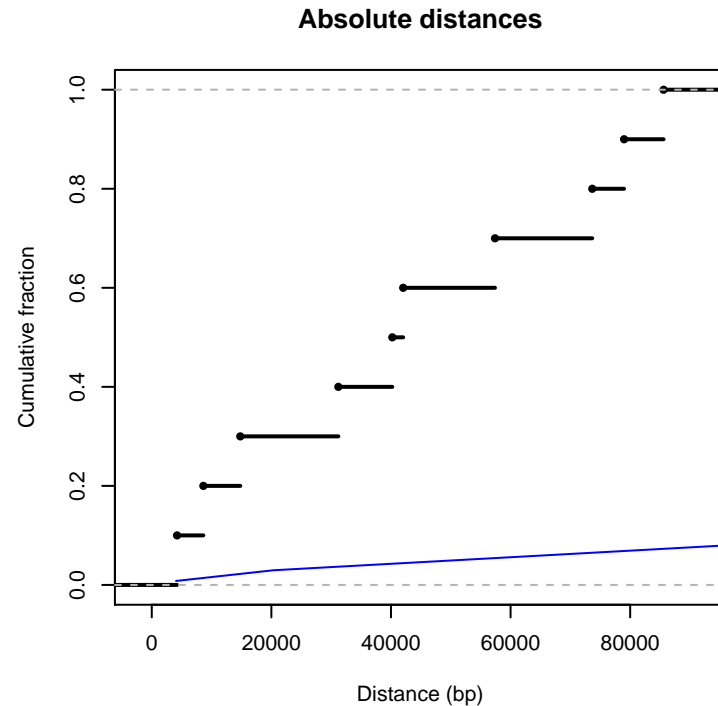
# pcontig\_080

Query population : 7  
Reference population : 4  
Relative Ks p-value : 0.447102  
Relative ecdf deviation area : 0.0558245  
Relative ecdf area correlation : -0.00183603  
Relative ecdf deviation area p-value : 0.48  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0188833  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



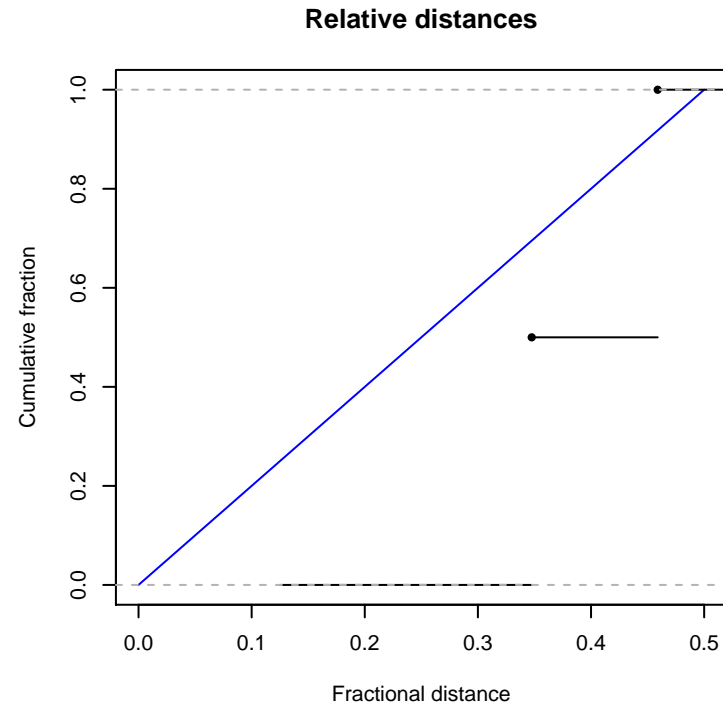
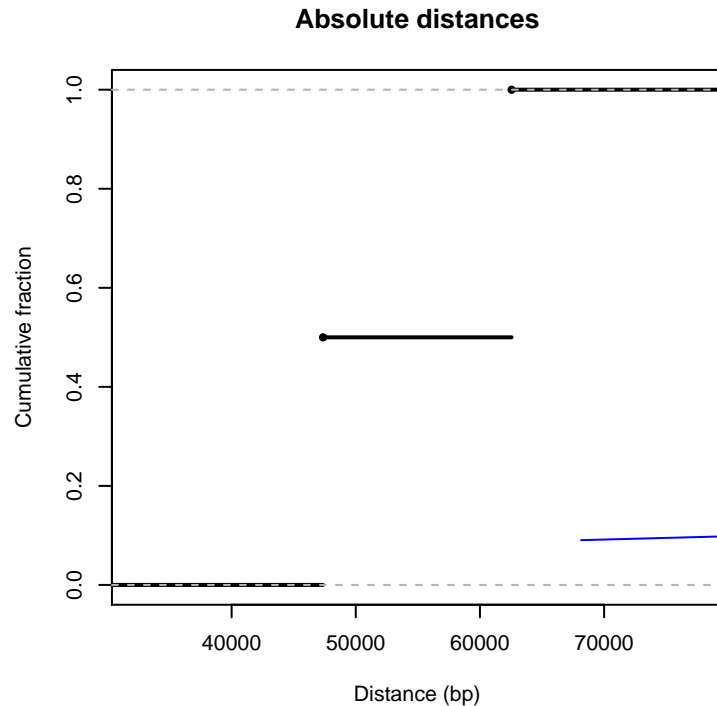
# pcontig\_081

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



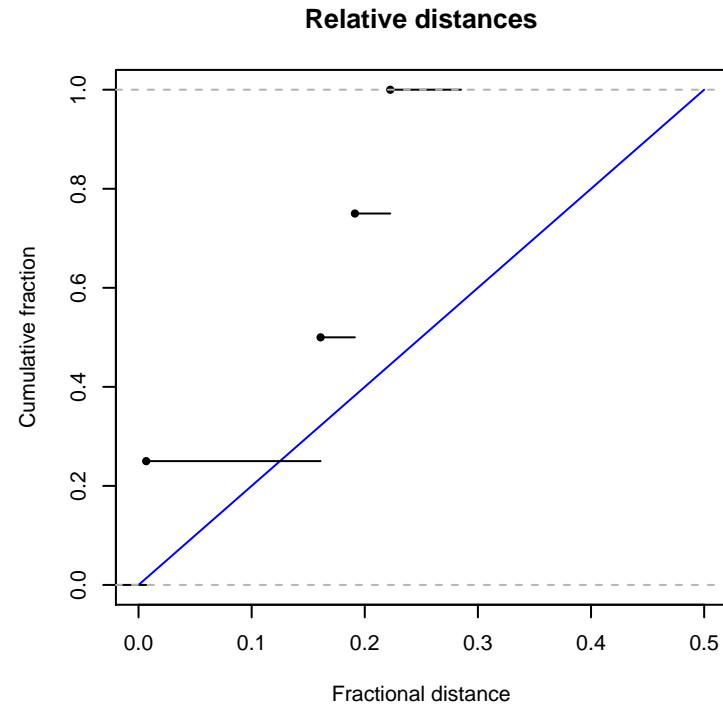
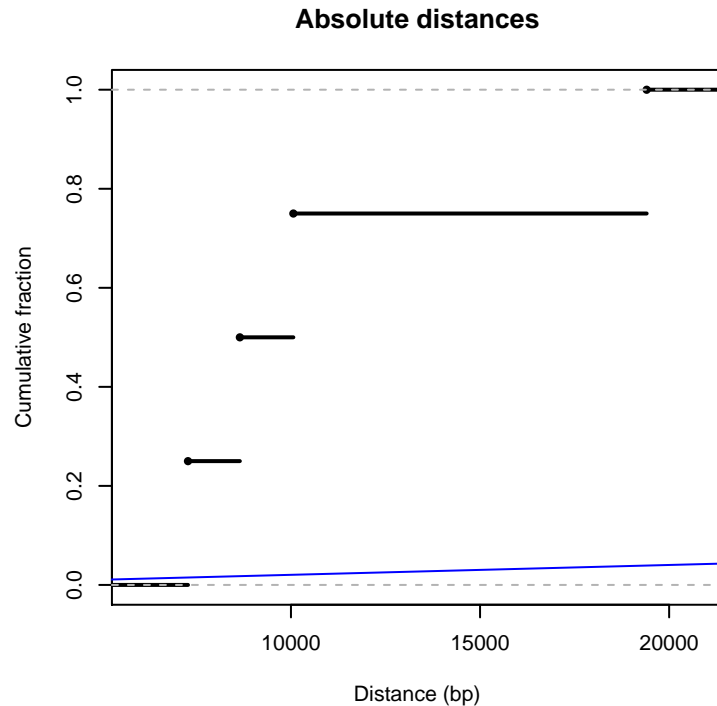
# pcontig\_082

Query population : 2  
Reference population : 2  
Relative Ks p-value : 0.185926  
Relative ecdf deviation area : 0.156767  
Relative ecdf area correlation : -0.613003  
Relative ecdf deviation area p-value : 0.14  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00208024  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



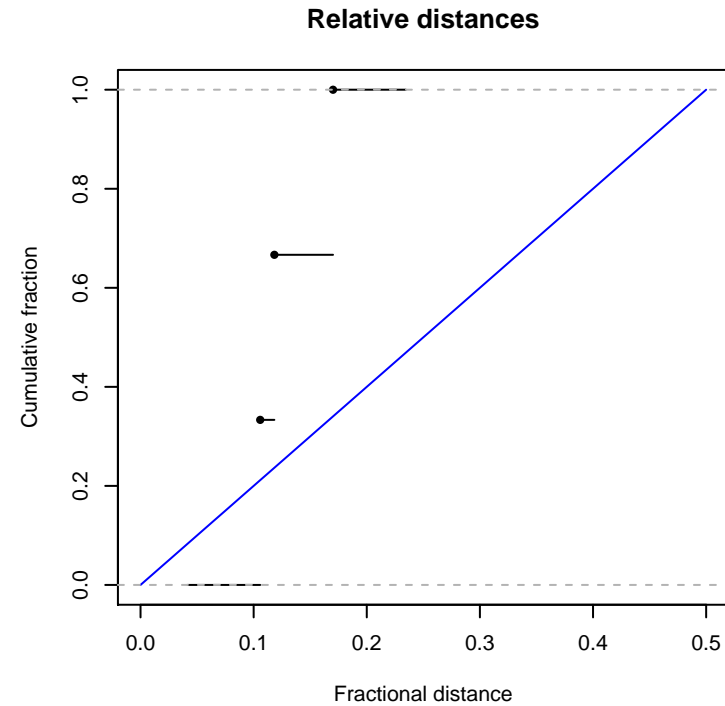
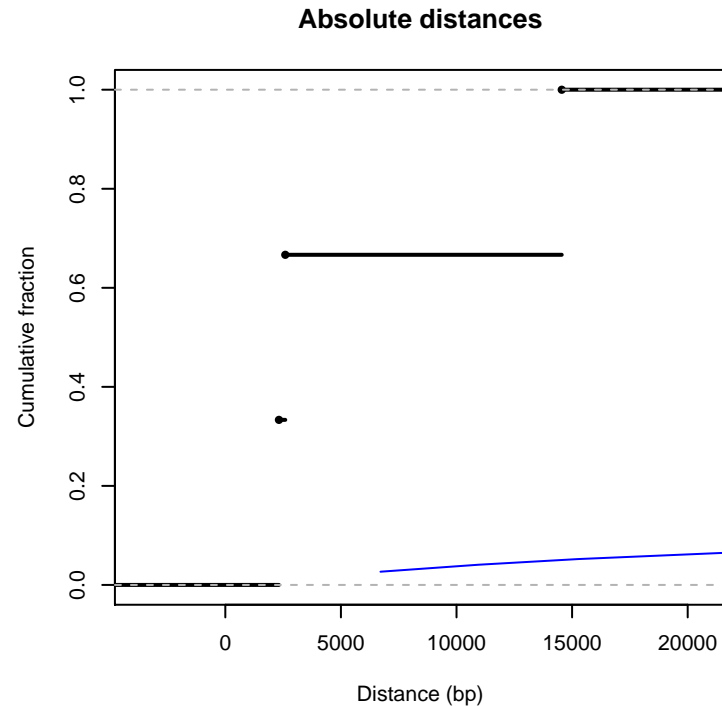
# pcontig\_083

Query population : 4  
Reference population : 4  
Relative Ks p-value : 0.111432  
Relative ecdf deviation area : 0.107163  
Relative ecdf area correlation : 0.41848  
Relative ecdf deviation area p-value : 0.19  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00805806  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



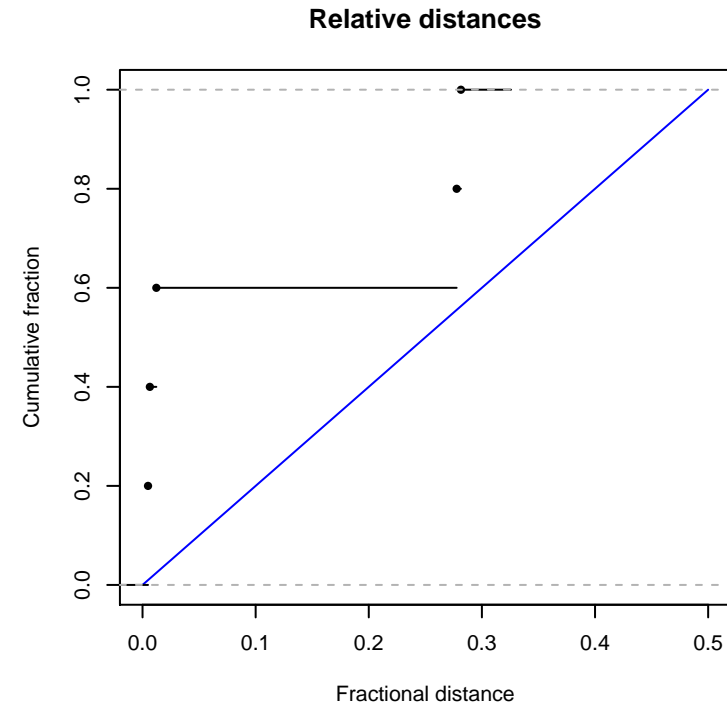
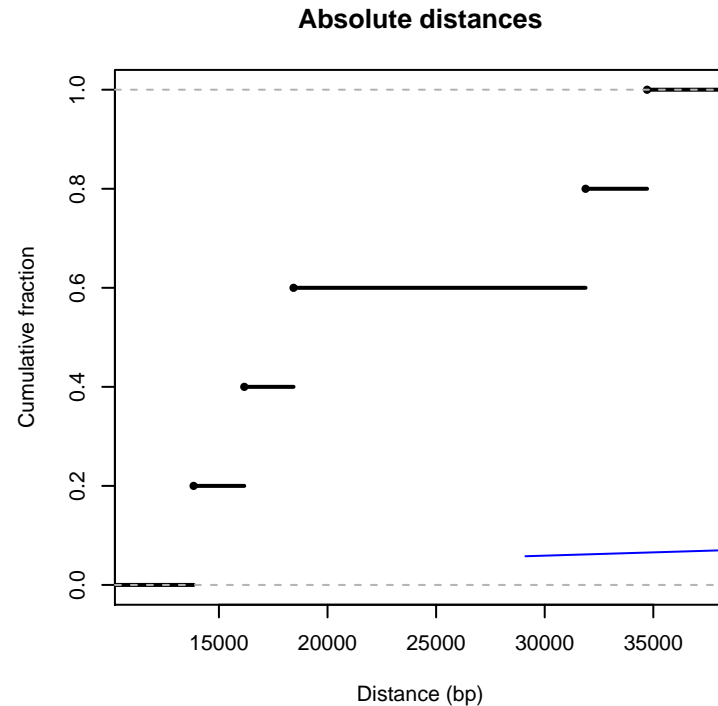
# pcontig\_084

Query population : 3  
Reference population : 6  
Relative Ks p-value : 0.0790458  
Relative ecdf deviation area : 0.139916  
Relative ecdf area correlation : 0.47428  
Relative ecdf deviation area p-value : 0.06000000000000001  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0154904  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_086

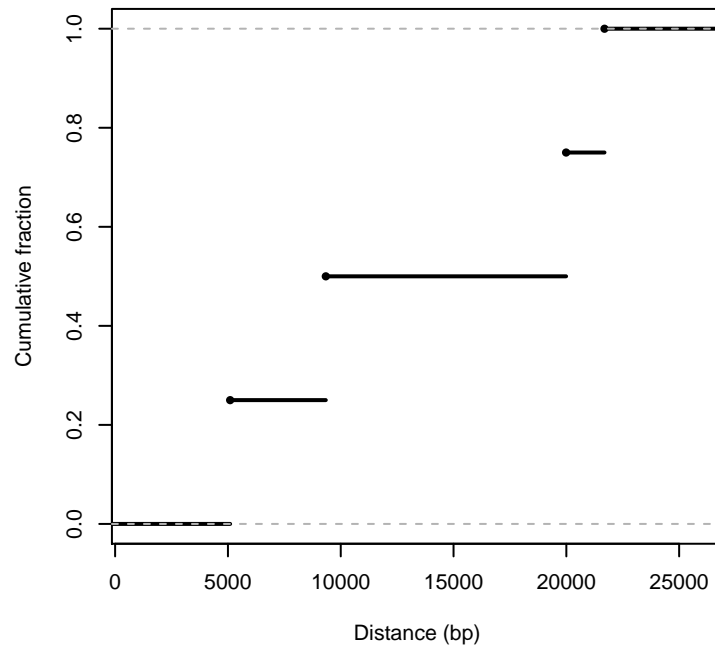
Query population : 5  
Reference population : 3  
Relative Ks p-value : 0.0423019  
Relative ecdf deviation area : 0.132923  
Relative ecdf area correlation : 0.53385  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0114268  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



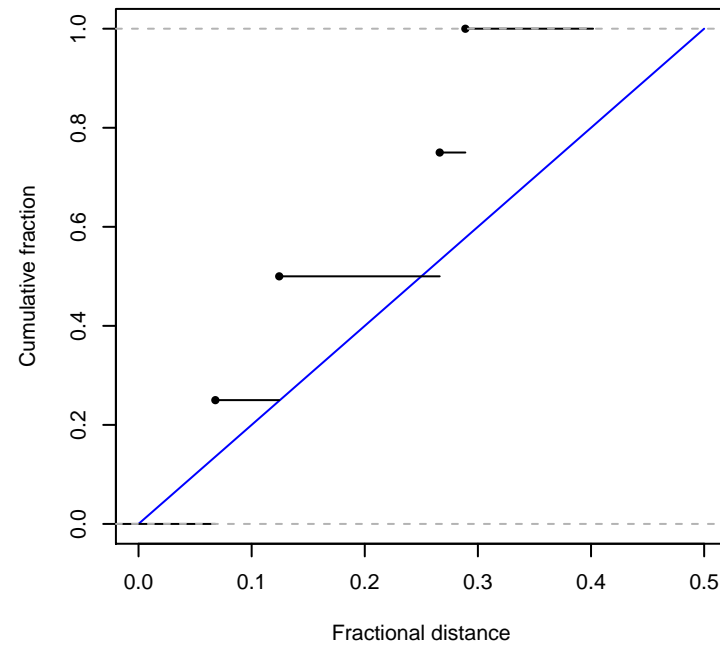
# pcontig\_087

Query population : 4  
Reference population : 2  
Relative Ks p-value : 0.369445  
Relative ecdf deviation area : 0.0727485  
Relative ecdf area correlation : 0.252561  
Relative ecdf deviation area p-value : 0.5  
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 : 0.00835733  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

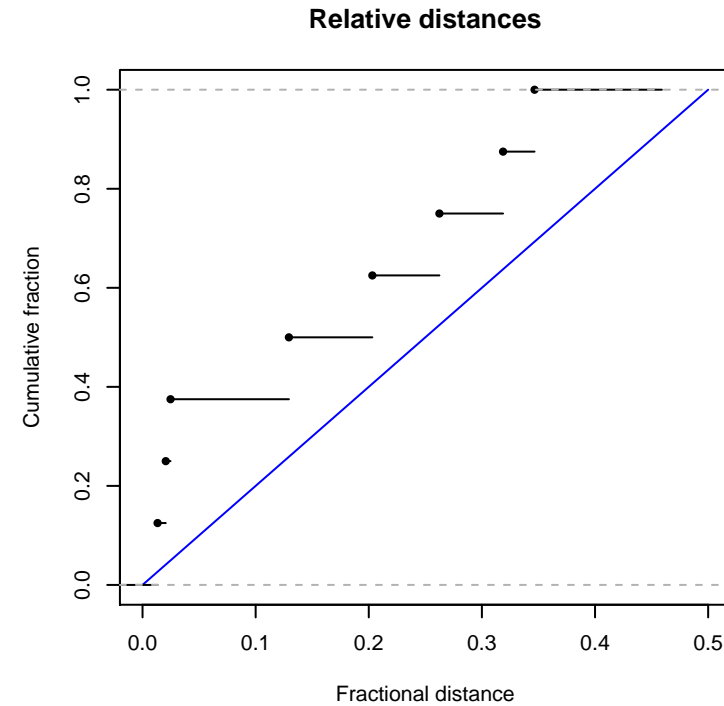
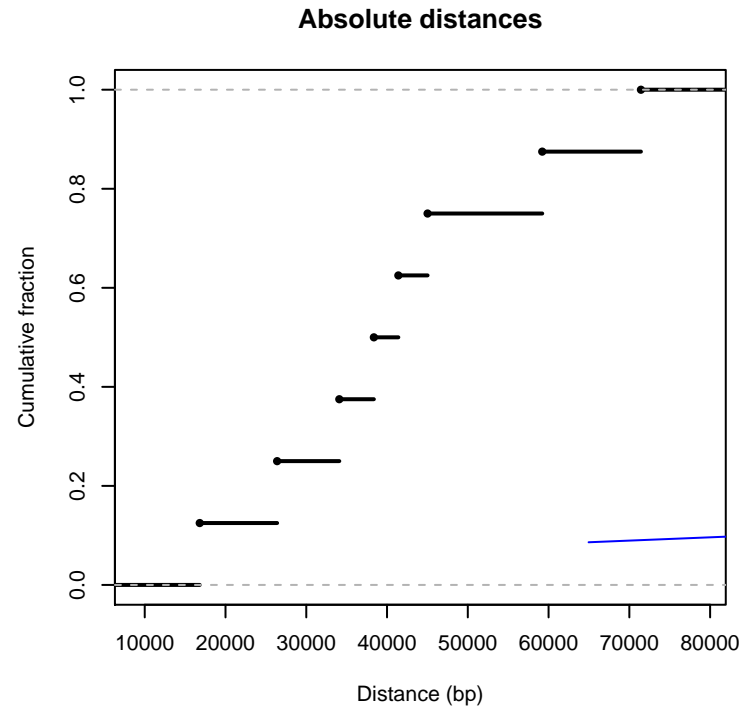


Relative distances



# pcontig\_088

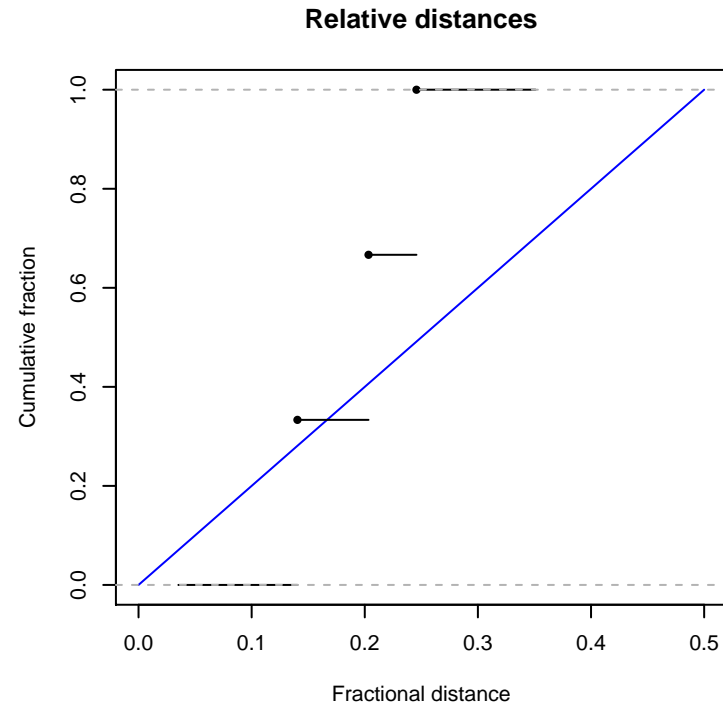
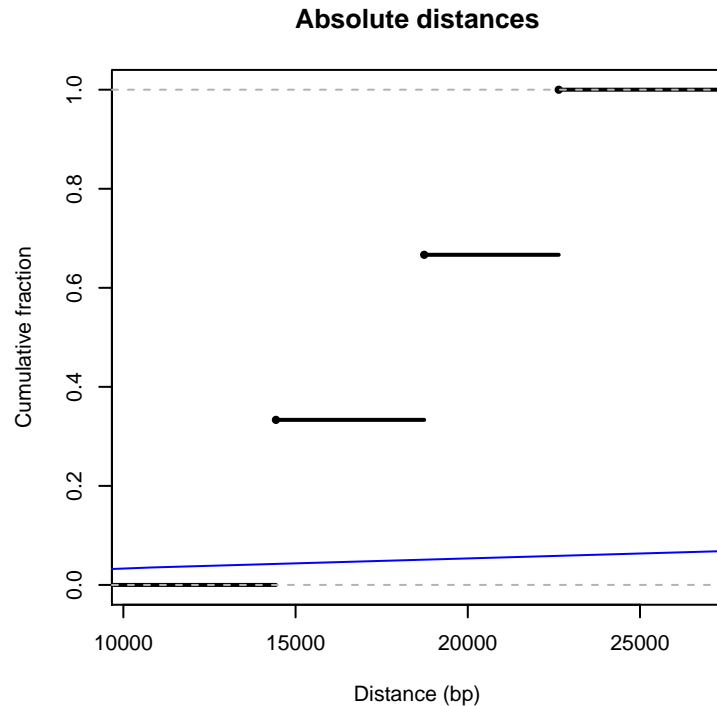
Query population : 8  
Reference population : 2  
Relative Ks p-value : 0.295875  
Relative ecdf deviation area : 0.085431  
Relative ecdf area correlation : 0.340583  
Relative ecdf deviation area p-value : 0.19  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.06000000000000001  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0143968  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





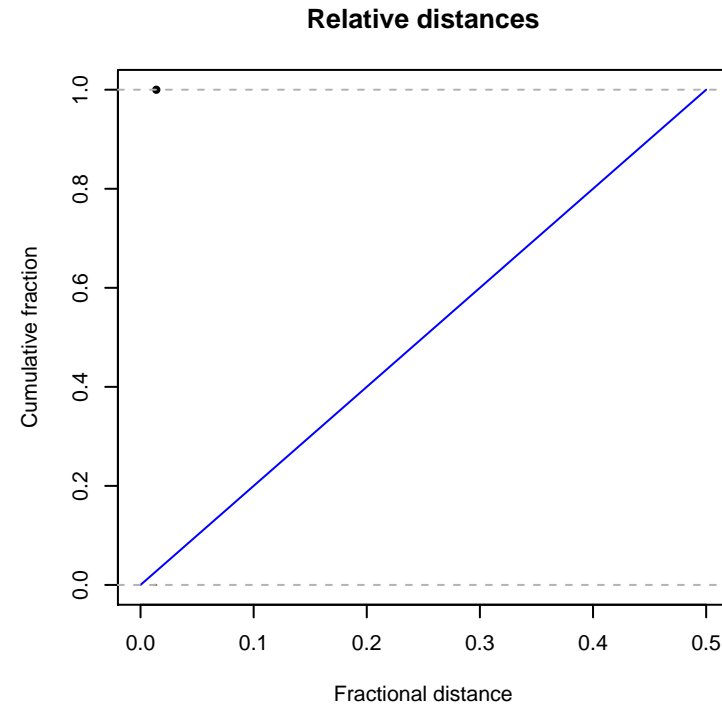
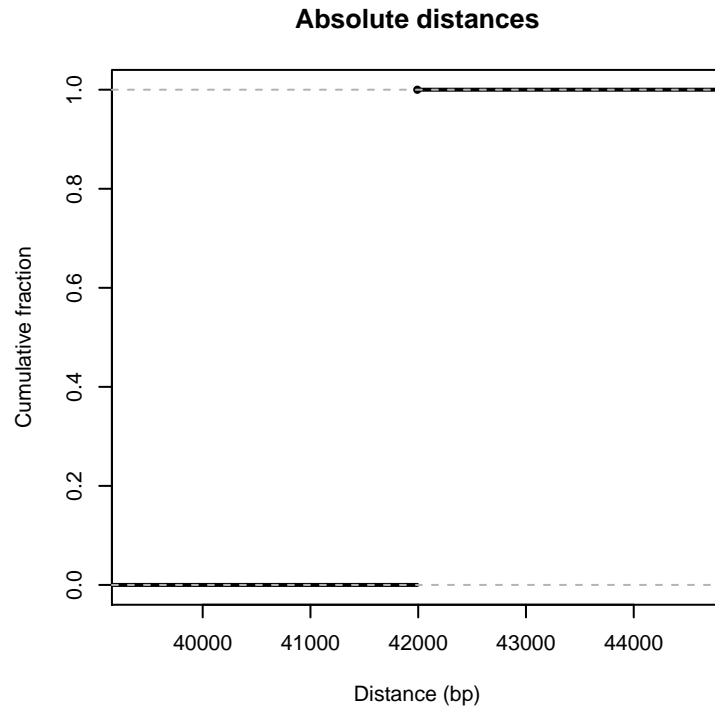
# pcontig\_089

Query population : 3  
Reference population : 7  
Relative Ks p-value : 0.31354  
Relative ecdf deviation area : 0.095837  
Relative ecdf area correlation : 0.214049  
Relative ecdf deviation area p-value : 0.45  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0218774  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_090

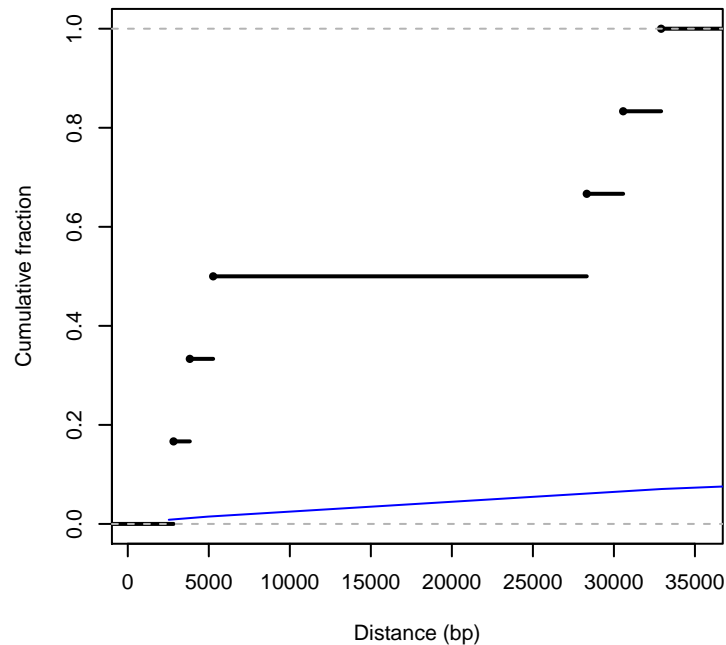
Query population : 1  
Reference population : 1  
Relative Ks p-value : 0.0557035  
Relative ecdf deviation area : 0.236142  
Relative ecdf area correlation : 0.944296  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000190688  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



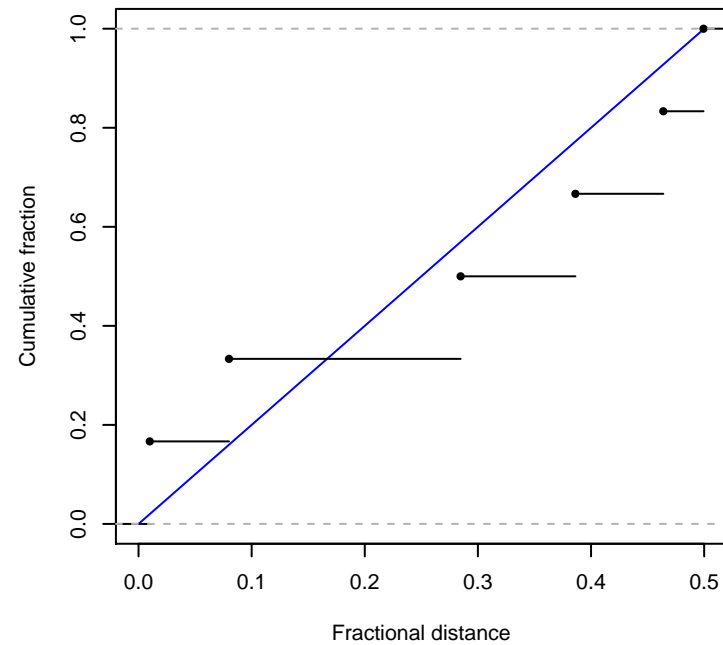
# pcontig\_091

Query population : 6  
Reference population : 5  
Relative Ks p-value : 0.674858  
Relative ecdf deviation area : 0.063628  
Relative ecdf area correlation : -0.149445  
Relative ecdf deviation area p-value : 0.48  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0329953  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances



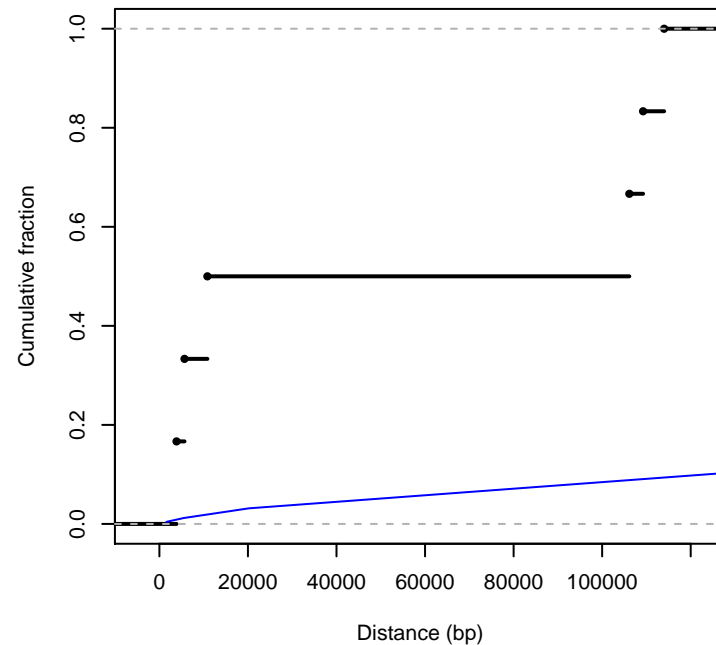
Relative distances



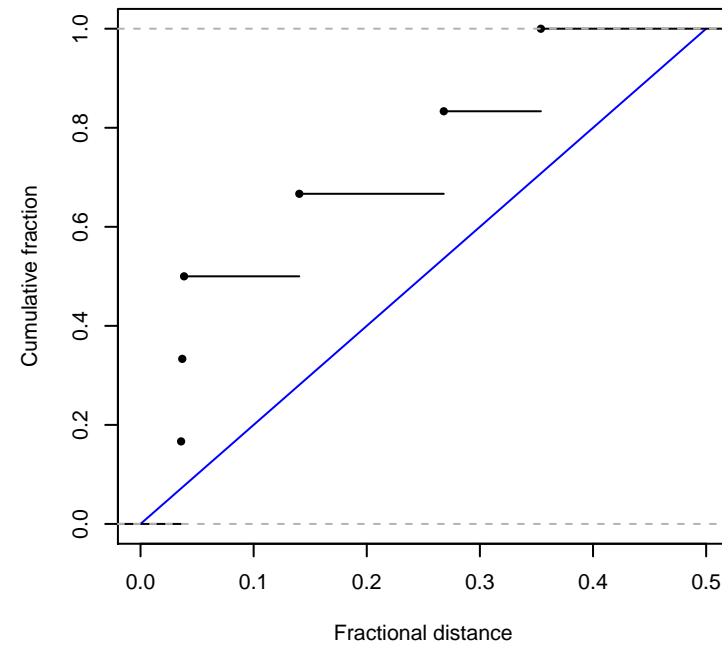
# pcontig\_092

Query population : 6  
Reference population : 4  
Relative Ks p-value : 0.17326  
Relative ecdf deviation area : 0.106471  
Relative ecdf area correlation : 0.417622  
Relative ecdf deviation area p-value : 0.11  
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 : 0.020788  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

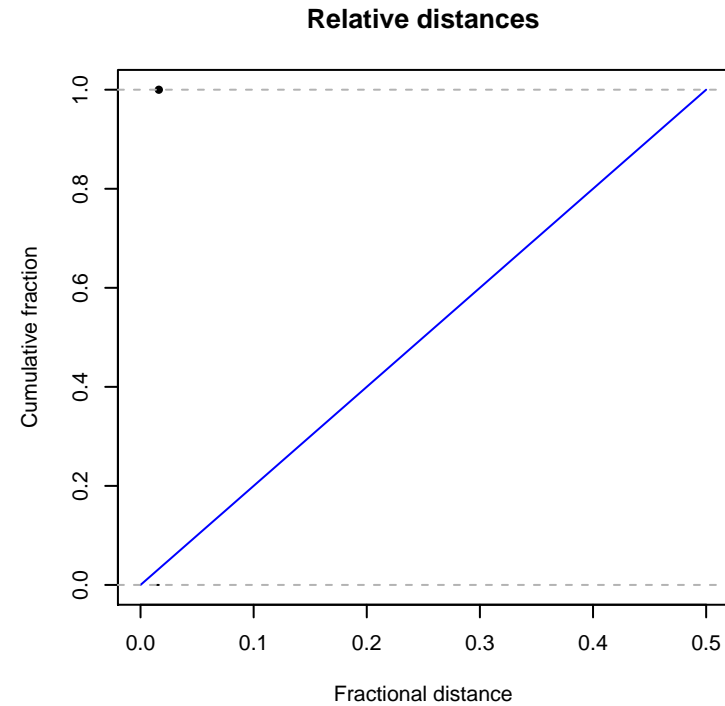
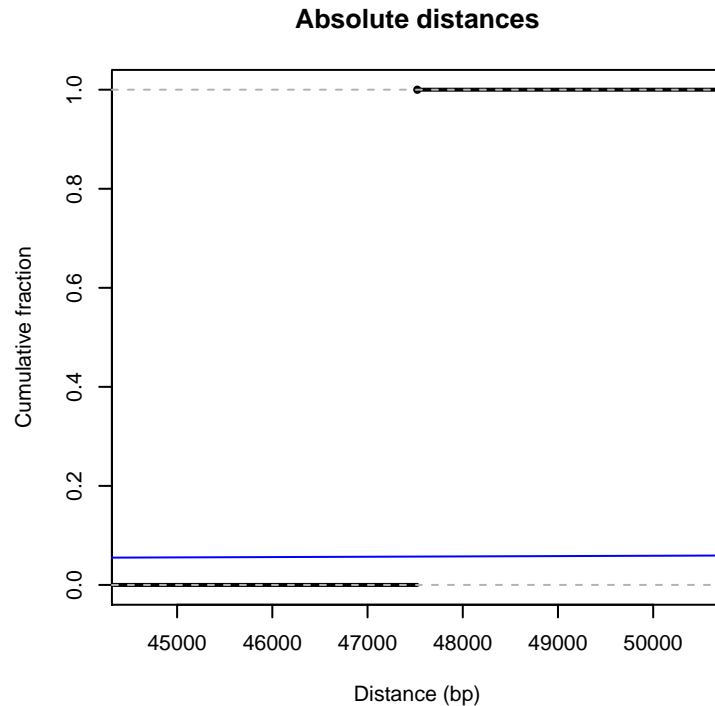


Relative distances



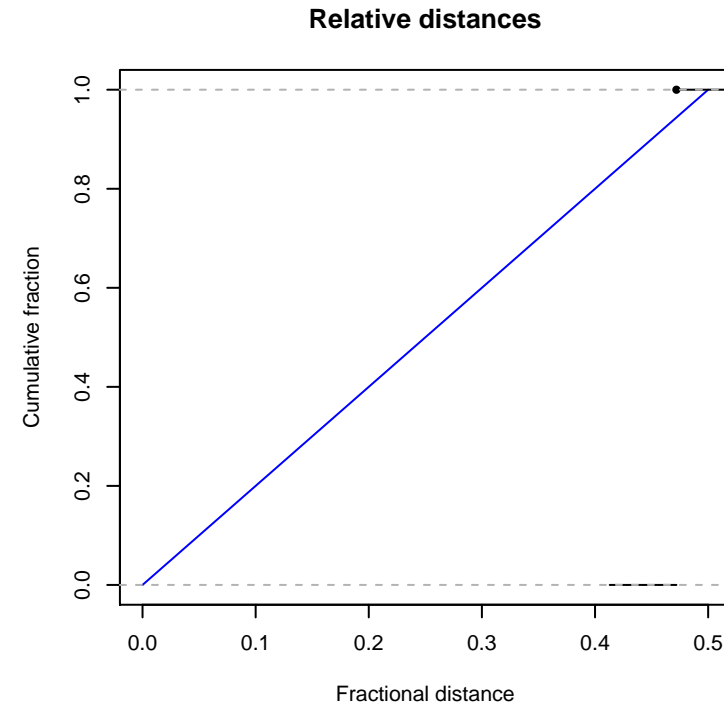
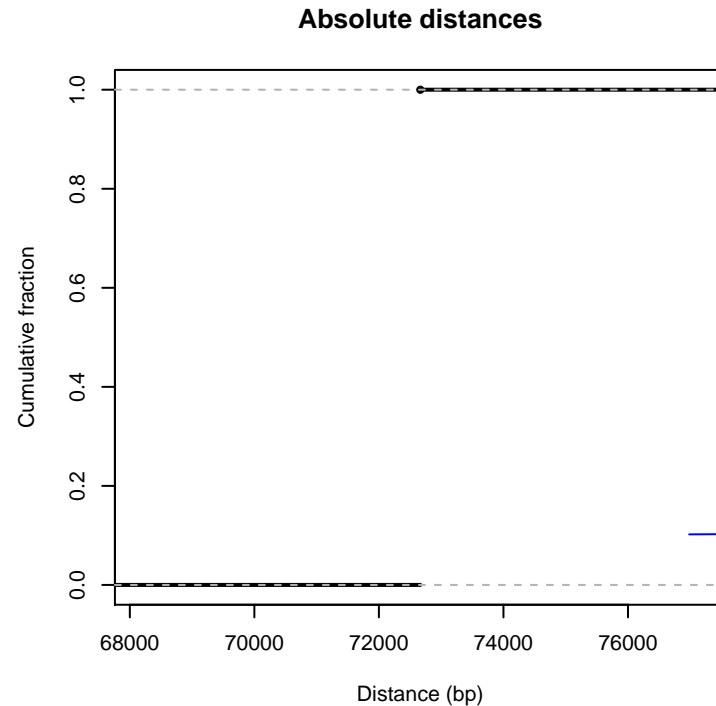
# pcontig\_095

Query population : 1  
Reference population : 3  
Relative Ks p-value : 0.0647069  
Relative ecdf deviation area : 0.234139  
Relative ecdf area correlation : 0.935293  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : 0.08  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00144326  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



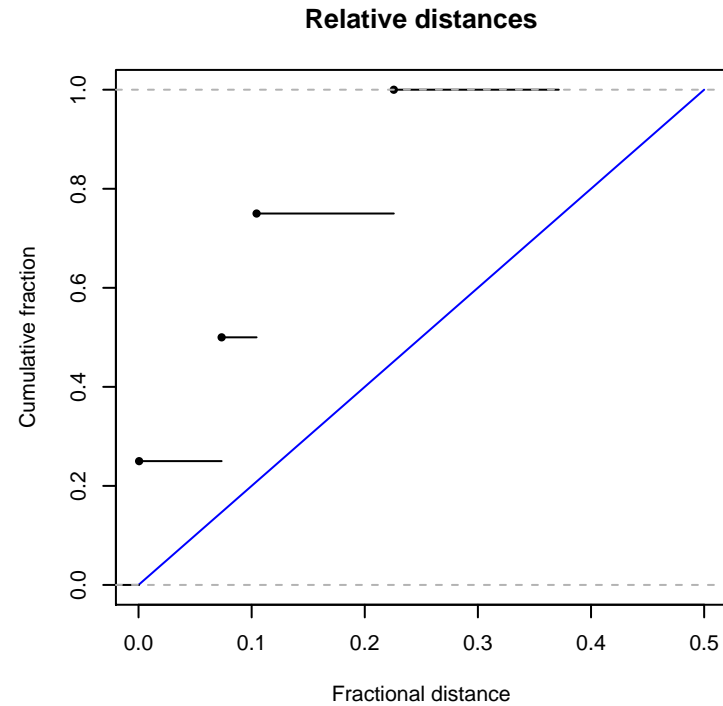
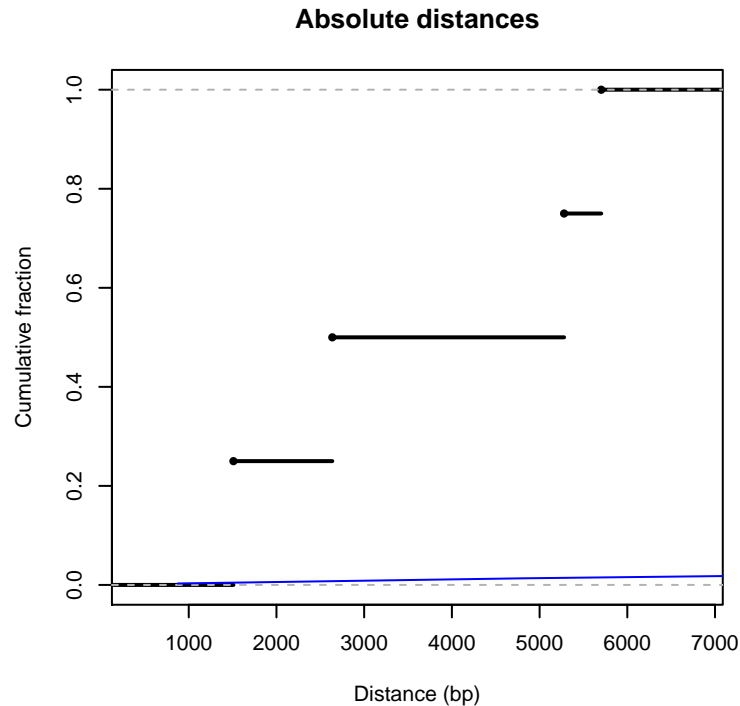
# pcontig\_097

Query population : 1  
Reference population : 2  
Relative Ks p-value : 0.112168  
Relative ecdf deviation area : 0.223097  
Relative ecdf area correlation : -0.887832  
Relative ecdf deviation area p-value : 0.15  
Scaled Absolute min. distance p-value : 0.07  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00110234  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



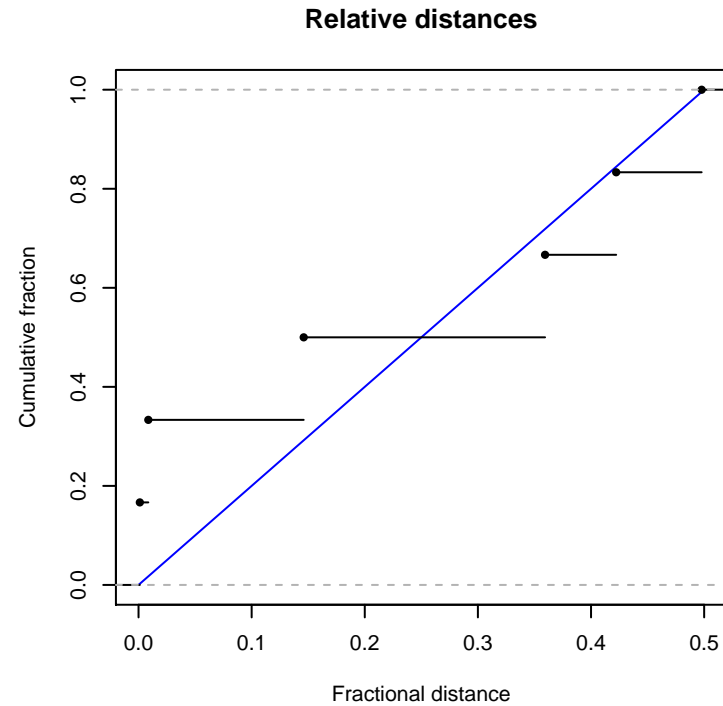
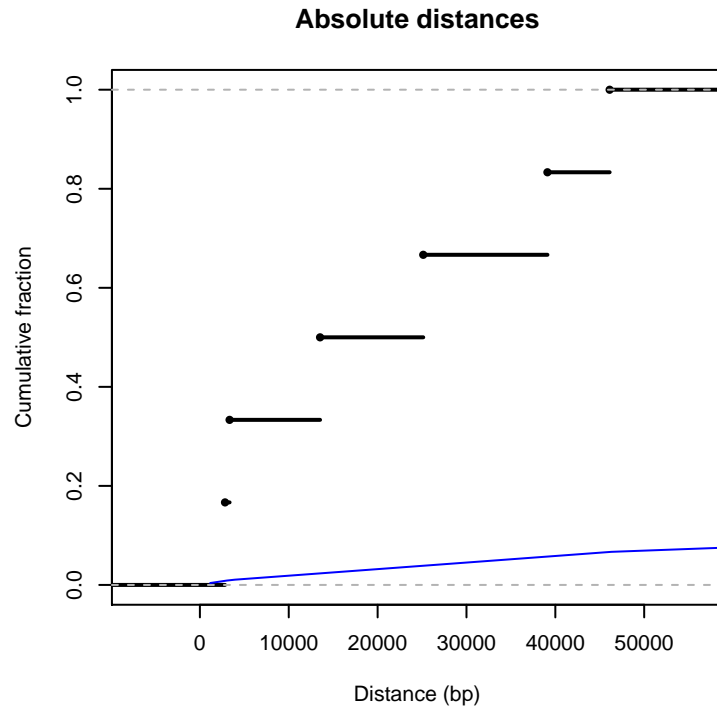
# pcontig\_100

Query population : 4  
Reference population : 5  
Relative Ks p-value : 0.118827  
Relative ecdf deviation area : 0.149059  
Relative ecdf area correlation : 0.596017  
Relative ecdf deviation area p-value : 0.03  
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 : 0.0164185  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_103

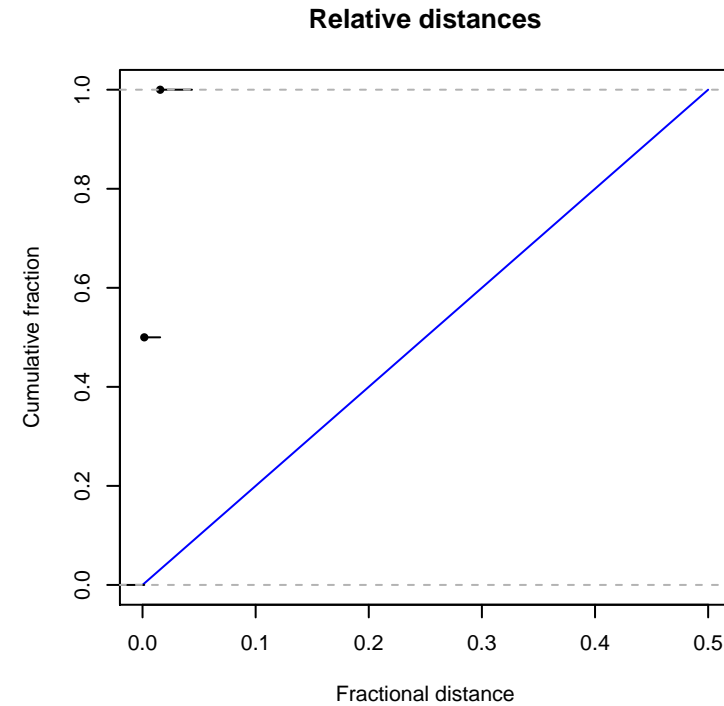
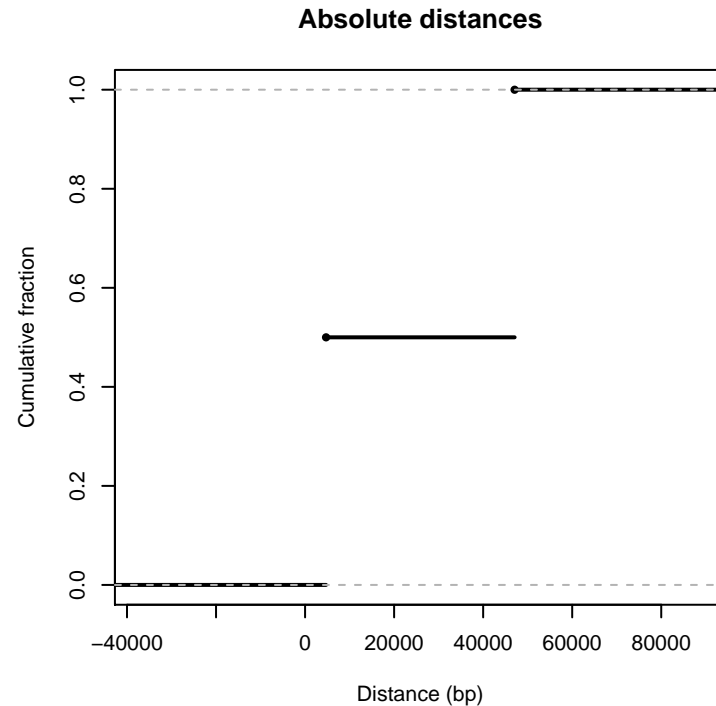
Query population : 6  
Reference population : 5  
Relative Ks p-value : 0.488627  
Relative ecdf deviation area : 0.0623526  
Relative ecdf area correlation : 0.0431897  
Relative ecdf deviation area p-value : 0.51  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.04  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0375162  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





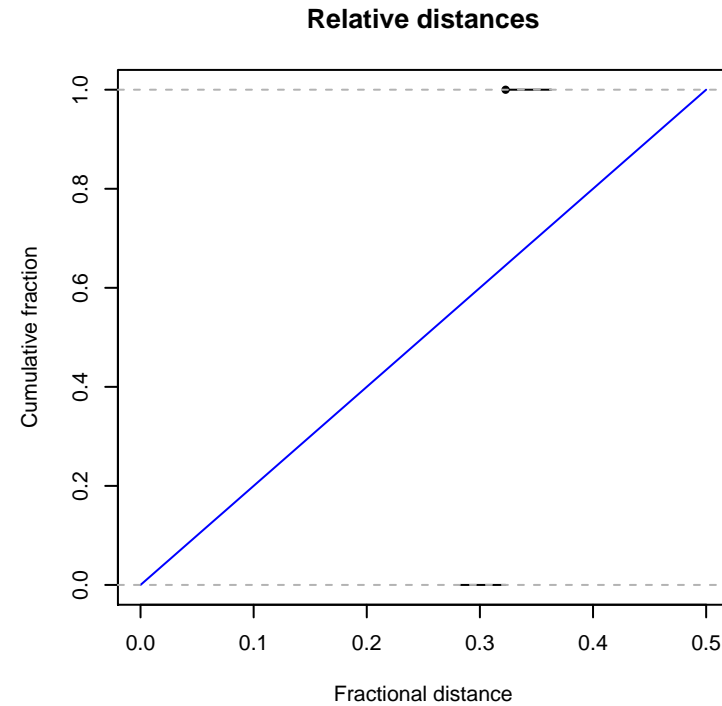
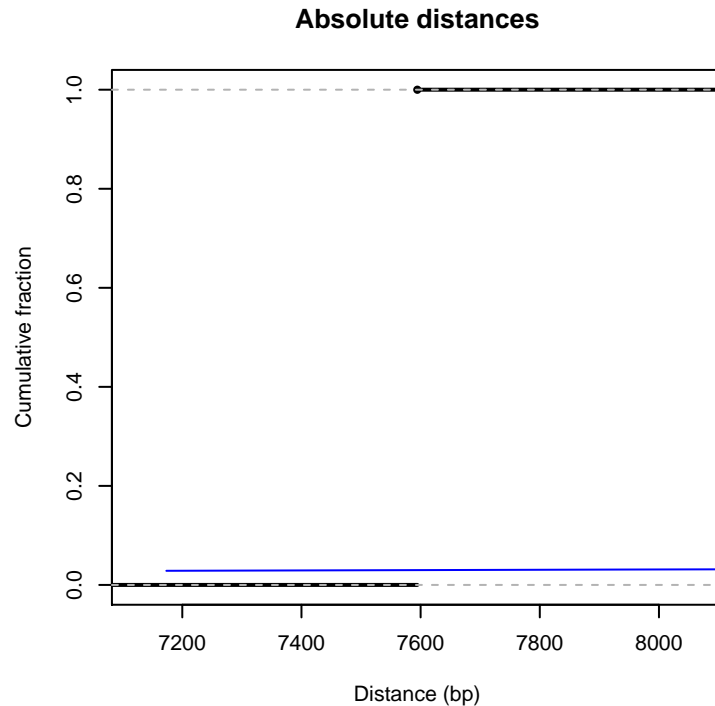
# pcontig\_104

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



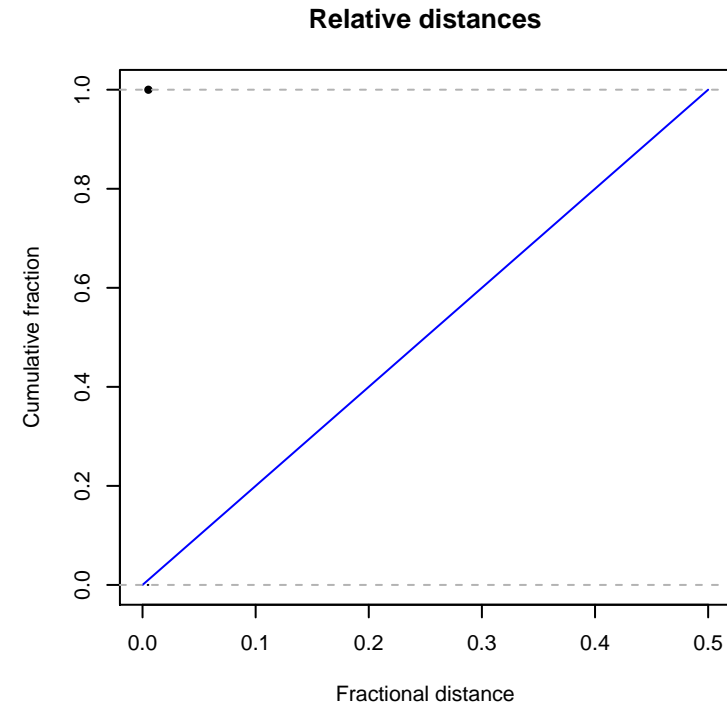
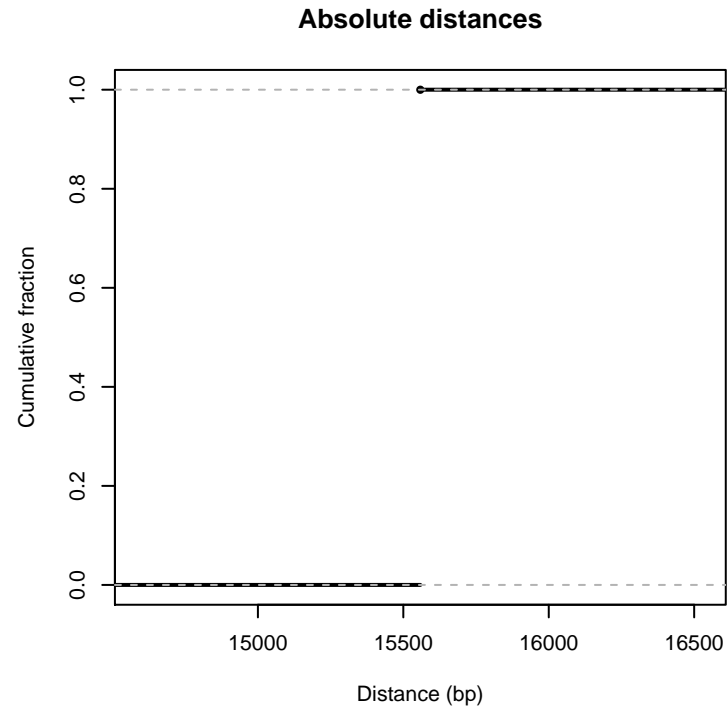
# pcontig\_106

Query population : 1  
Reference population : 6  
Relative Ks p-value : 0.709159  
Relative ecdf deviation area : 0.136029  
Relative ecdf area correlation : -0.290841  
Relative ecdf deviation area p-value : 0.7  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00477782  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



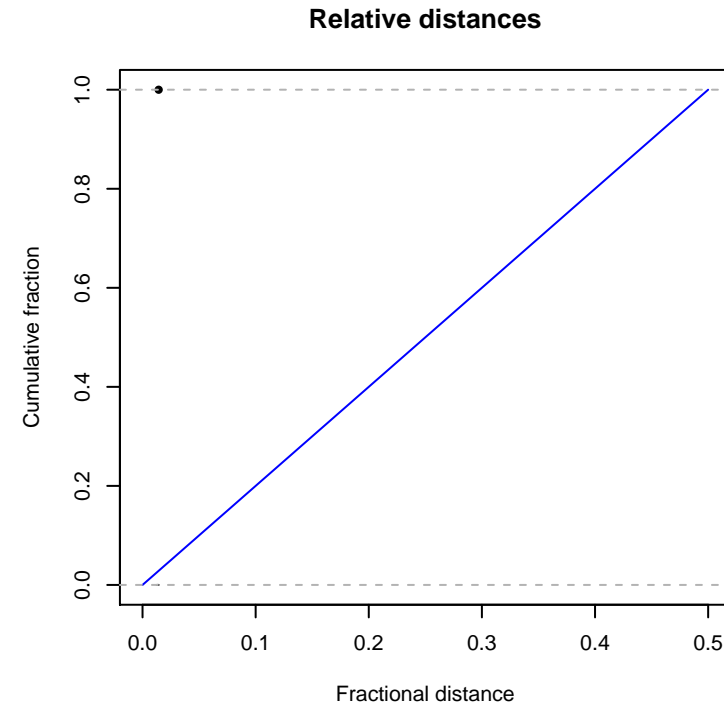
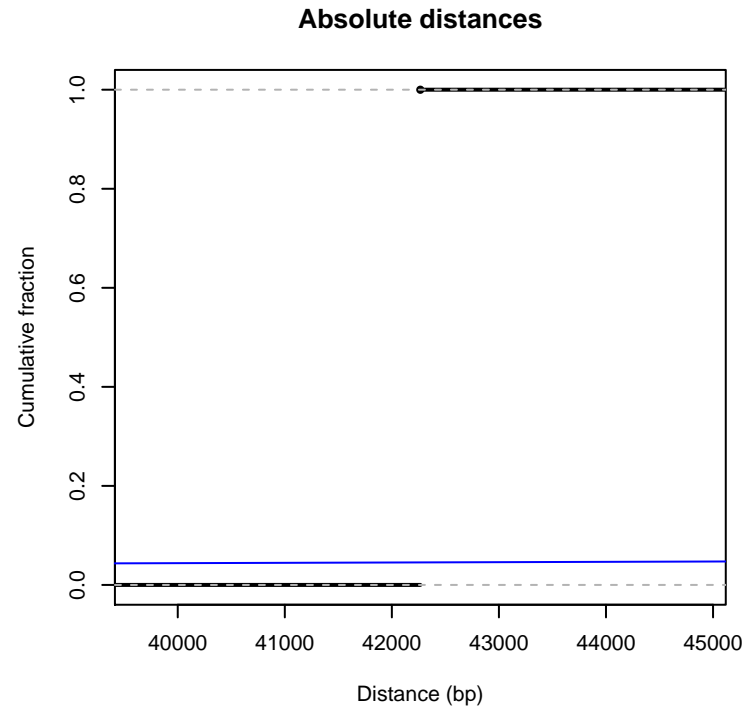
# pcontig\_112

Query population : 1  
Reference population : 1  
Relative Ks p-value : 0.0206388  
Relative ecdf deviation area : 0.244619  
Relative ecdf area correlation : 0.979361  
Relative ecdf deviation area p-value : <0.01  
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 : 0.000656299  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



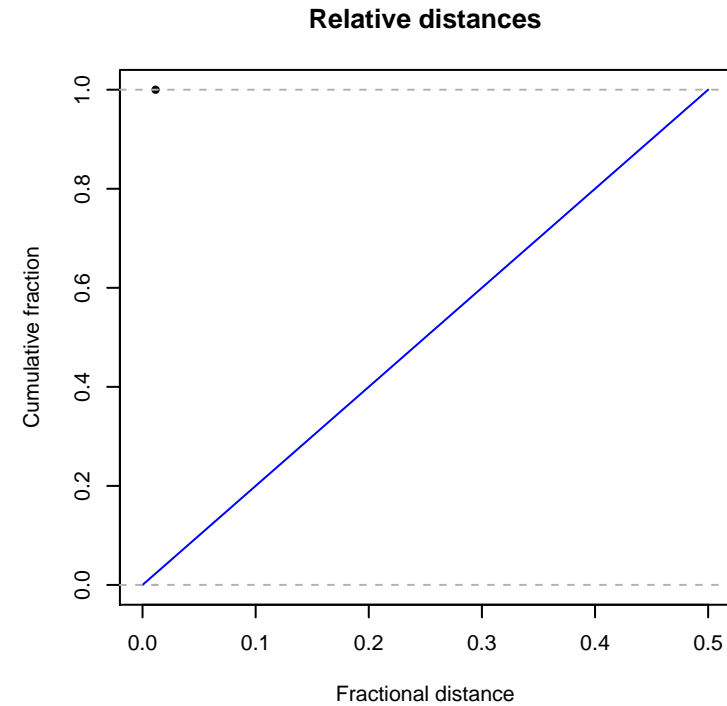
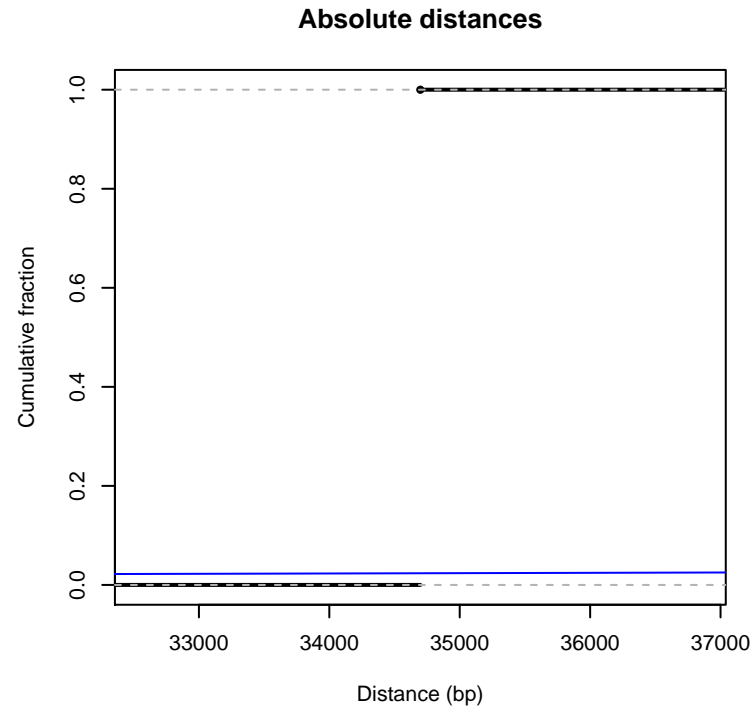
# pcontig\_115

Query population : 1  
Reference population : 4  
Relative Ks p-value : 0.0570628  
Relative ecdf deviation area : 0.236142  
Relative ecdf area correlation : 0.942937  
Relative ecdf deviation area p-value : 0.06000000000000001  
Scaled Absolute min. distance p-value : 0.05  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00246535  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



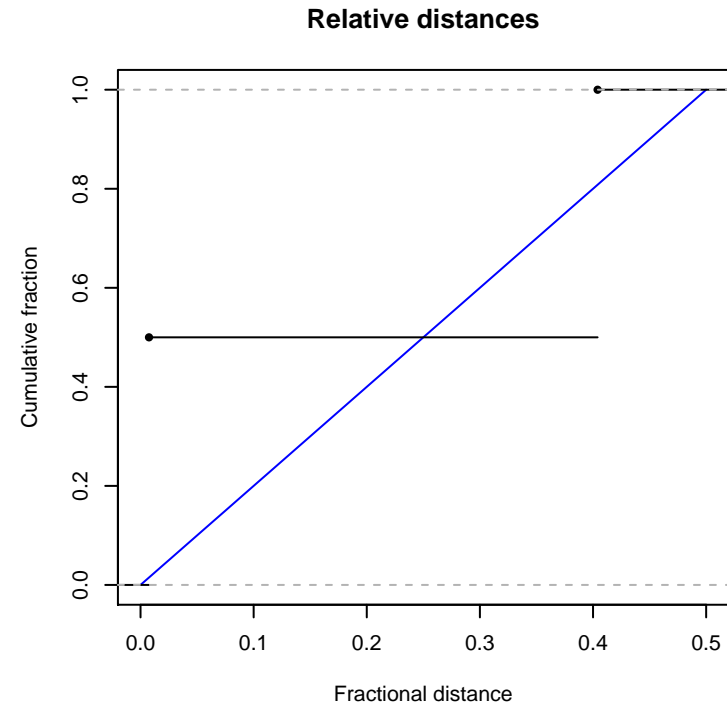
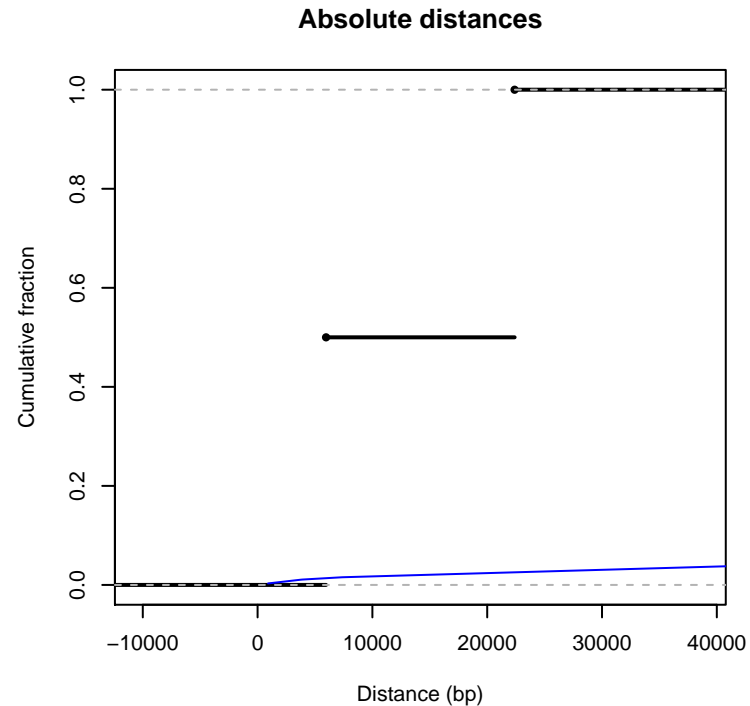
# pcontig\_120

Query population : 1  
Reference population : 2  
Relative Ks p-value : 0.0460545  
Relative ecdf deviation area : 0.238556  
Relative ecdf area correlation : 0.953945  
Relative ecdf deviation area p-value : 0.02  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00109803  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



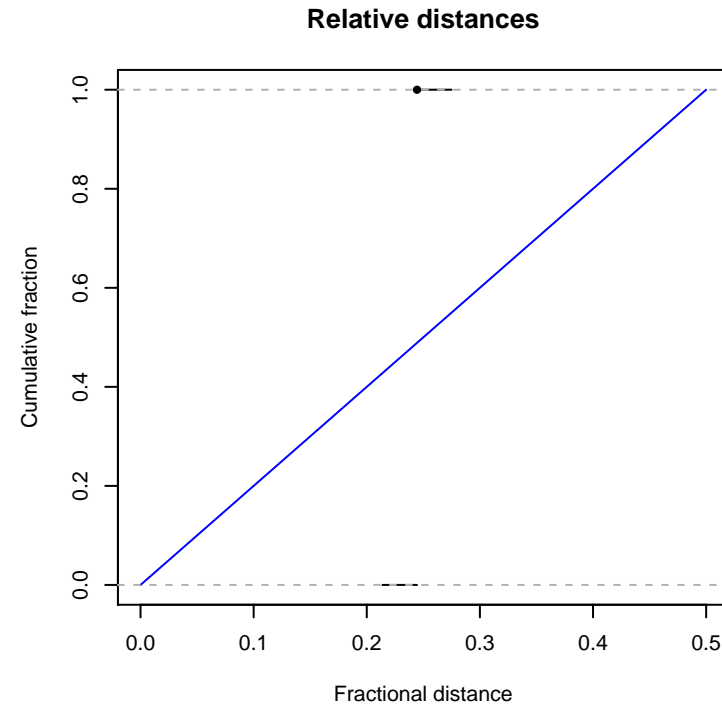
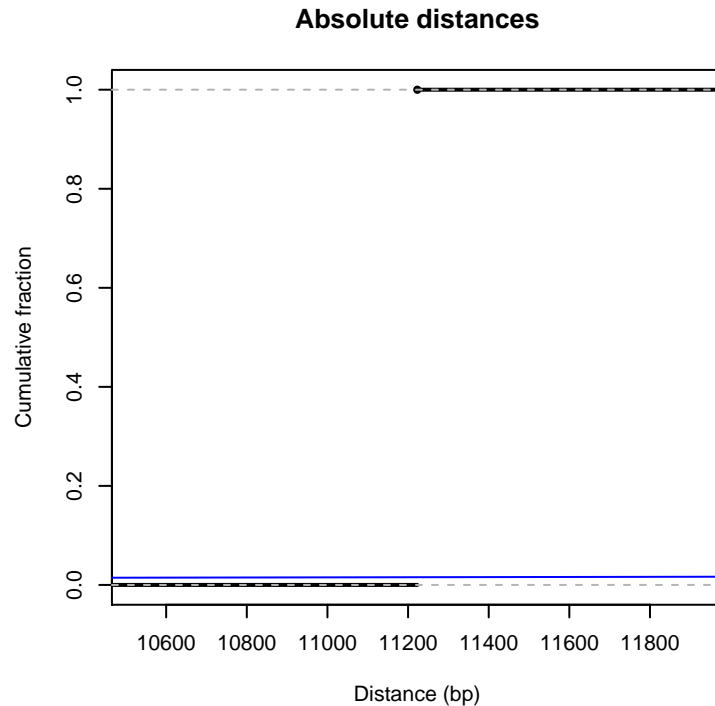
# pcontig\_130

Query population : 2  
Reference population : 5  
Relative Ks p-value : 0.558229  
Relative ecdf deviation area : 0.0913817  
Relative ecdf area correlation : 0.176891  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00683316  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



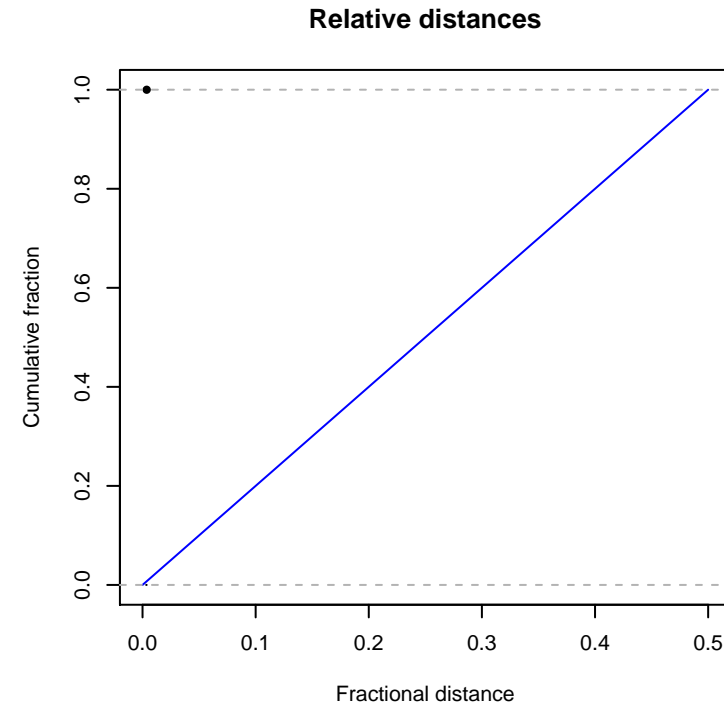
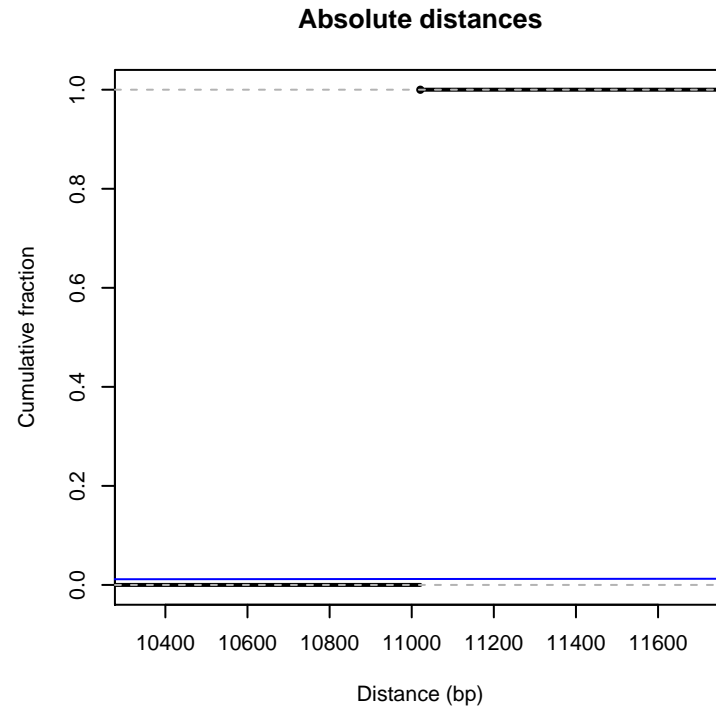
# pcontig\_138

Query population : 1  
Reference population : 3  
Relative Ks p-value : 0.977571  
Relative ecdf deviation area : 0.125056  
Relative ecdf area correlation : 0.0224293  
Relative ecdf deviation area p-value : 0.95  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00151357  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_147

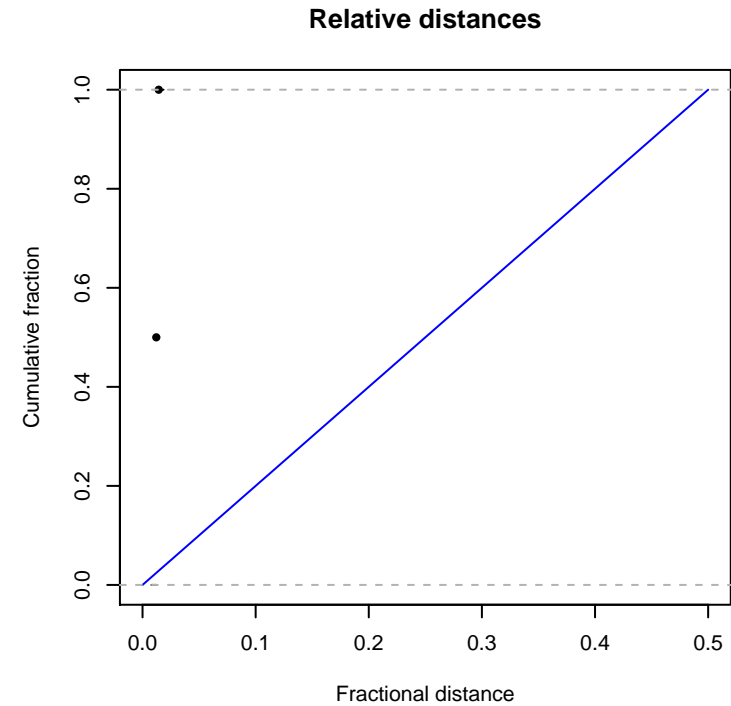
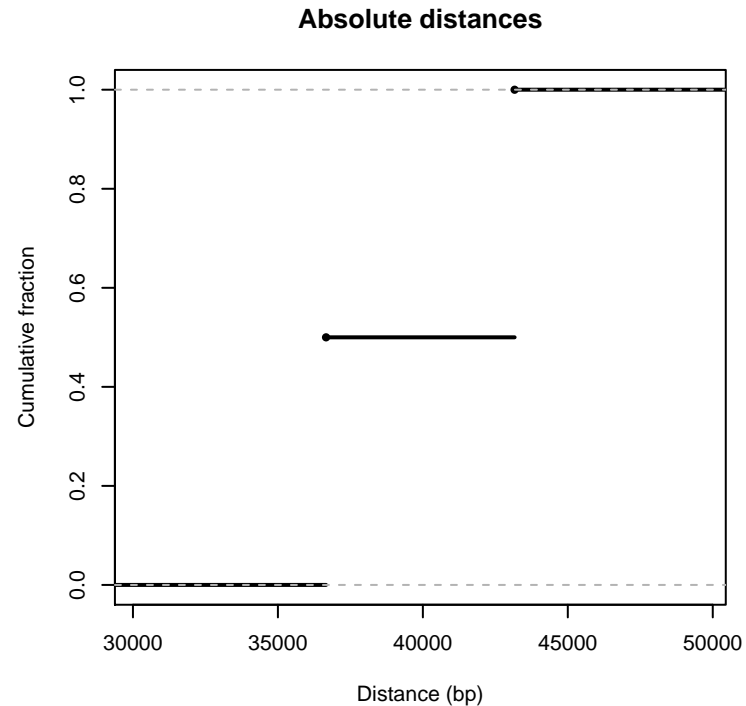
Query population : 1  
Reference population : 2  
Relative Ks p-value : 0.0146882  
Relative ecdf deviation area : 0.246924  
Relative ecdf area correlation : 0.985312  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE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





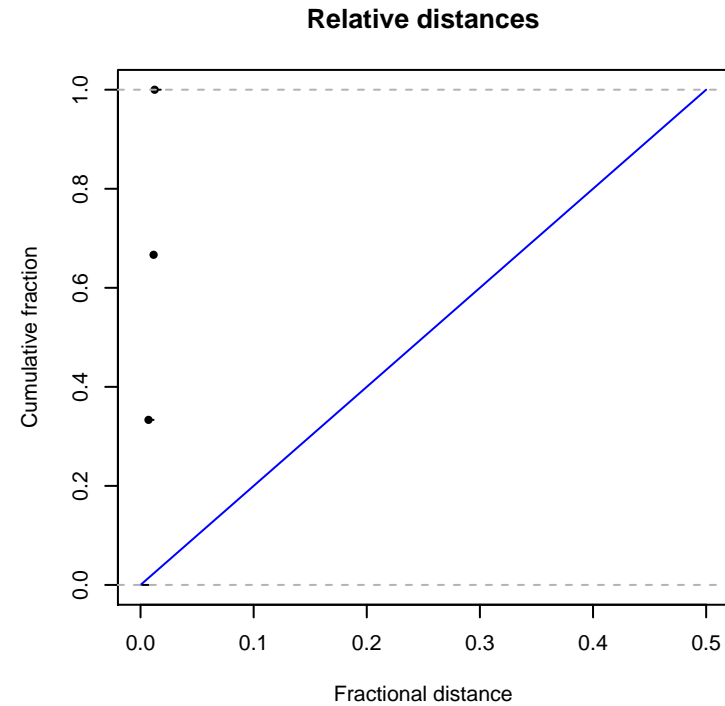
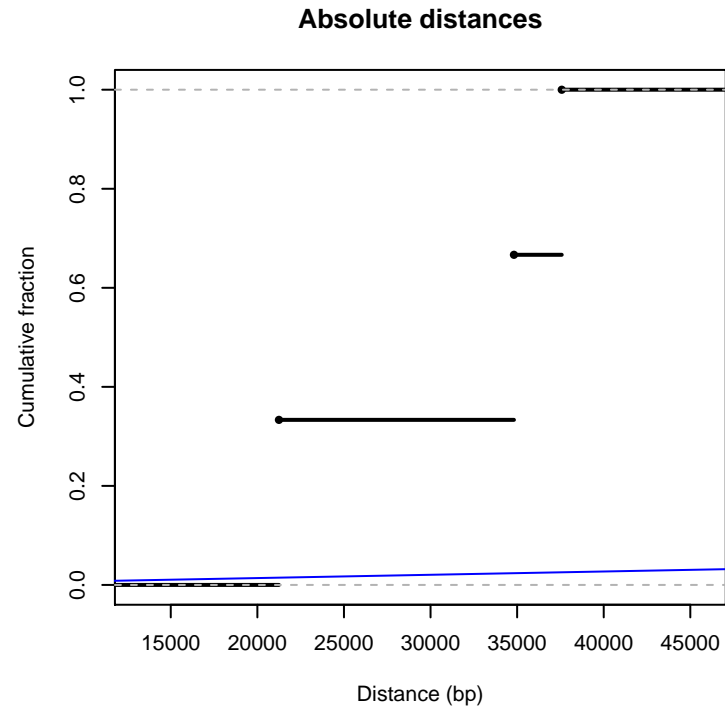
# pcontig\_148

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



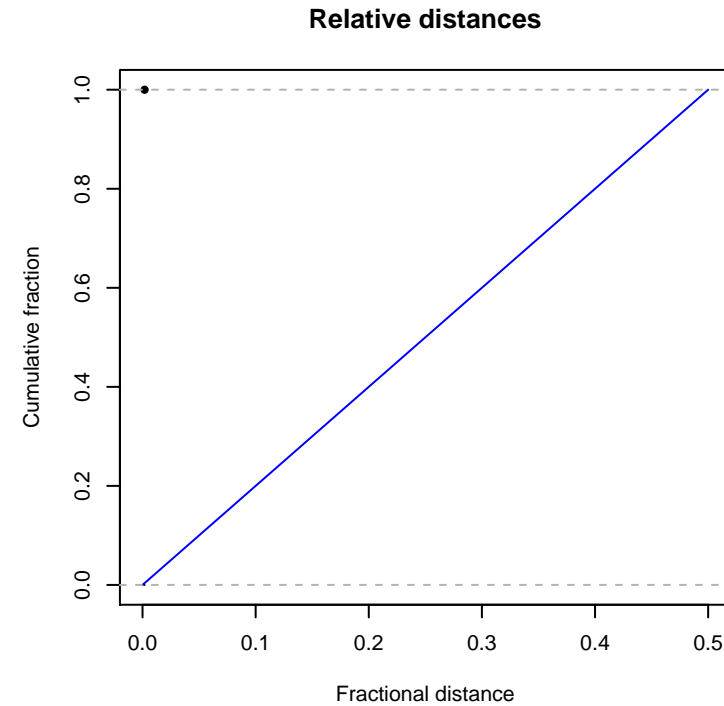
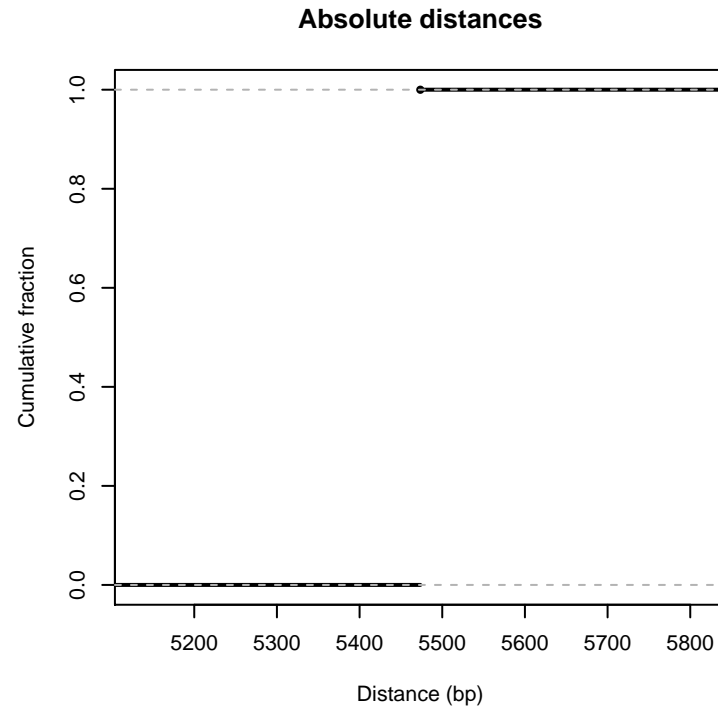
# pcontig\_157

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



# pcontig\_174

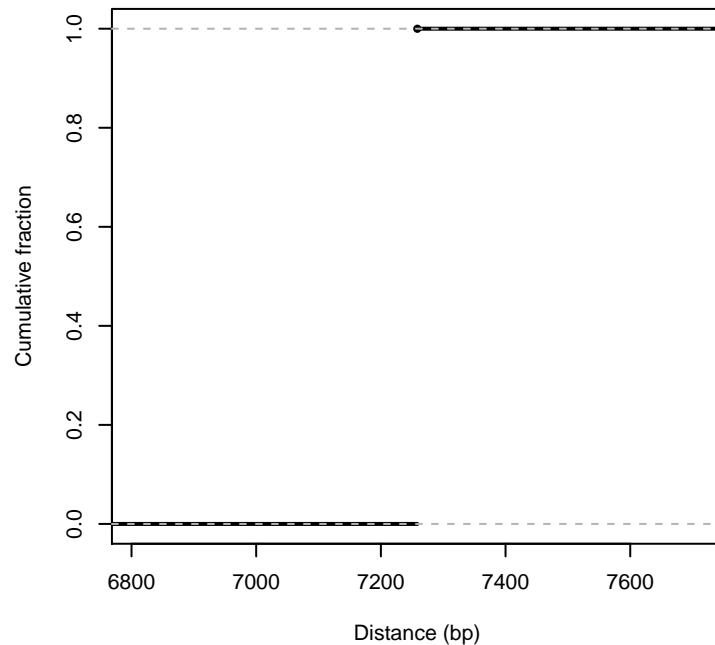
Query population : 1  
Reference population : 1  
Relative Ks p-value : 0.00726074  
Relative ecdf deviation area : 0.248621  
Relative ecdf area correlation : 0.992739  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE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



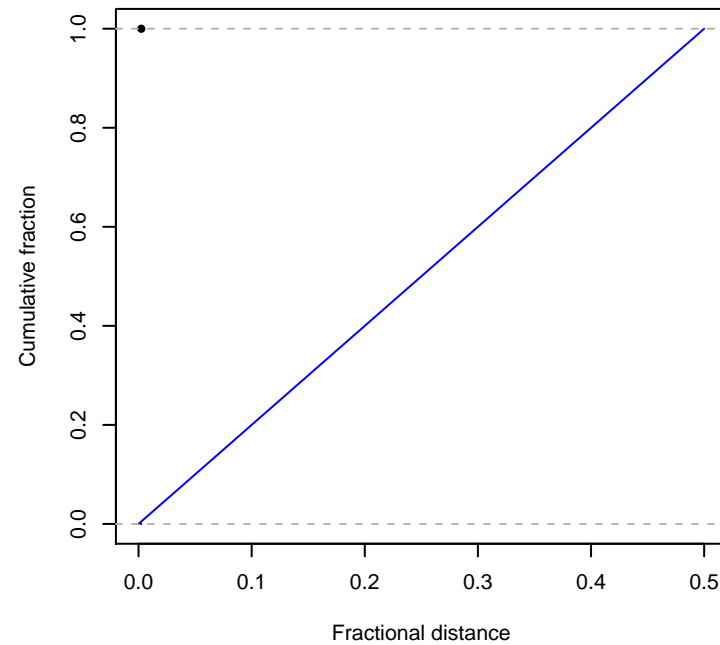
# pcontig\_181

Query population : 1  
Reference population : 1  
Relative Ks p-value : 0.00962859  
Relative ecdf deviation area : 0.246924  
Relative ecdf area correlation : 0.990371  
Relative ecdf deviation area p-value : 0.02  
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 : 0.000239438  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

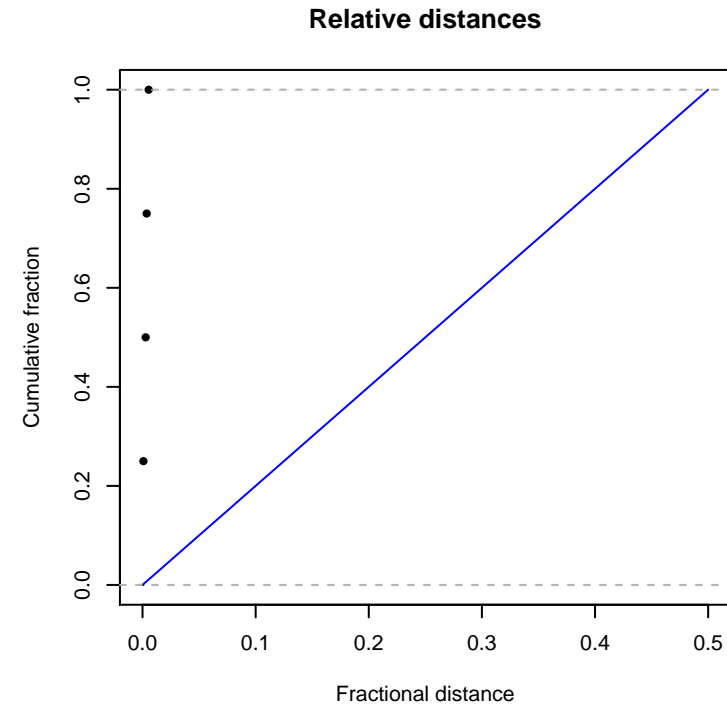
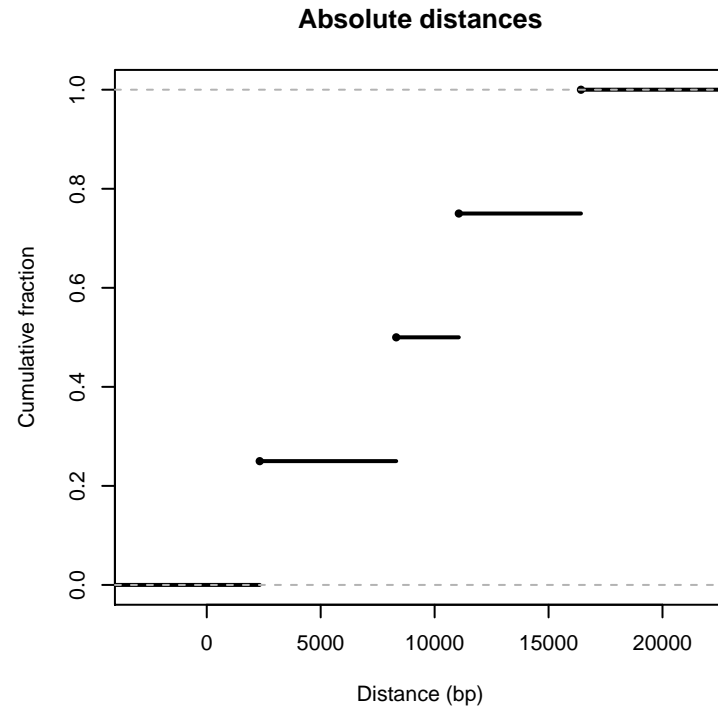


Relative distances



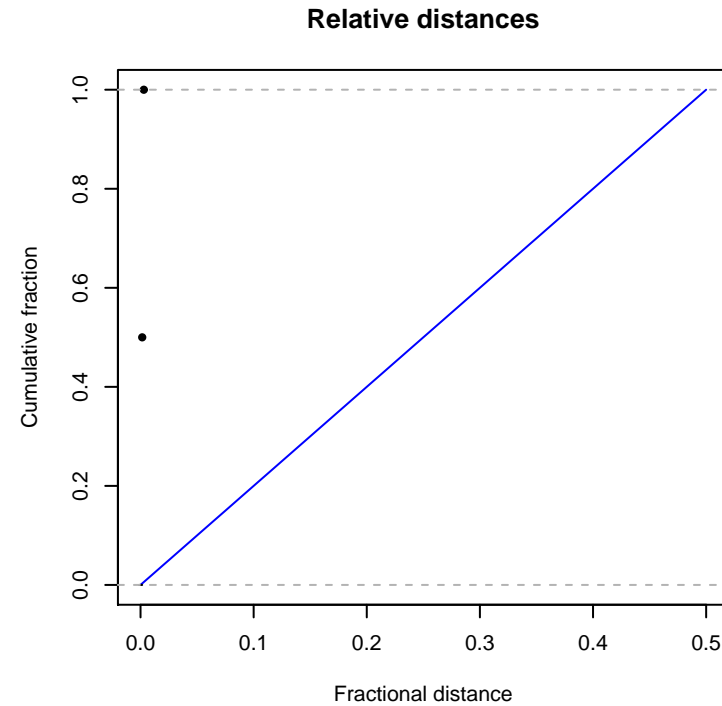
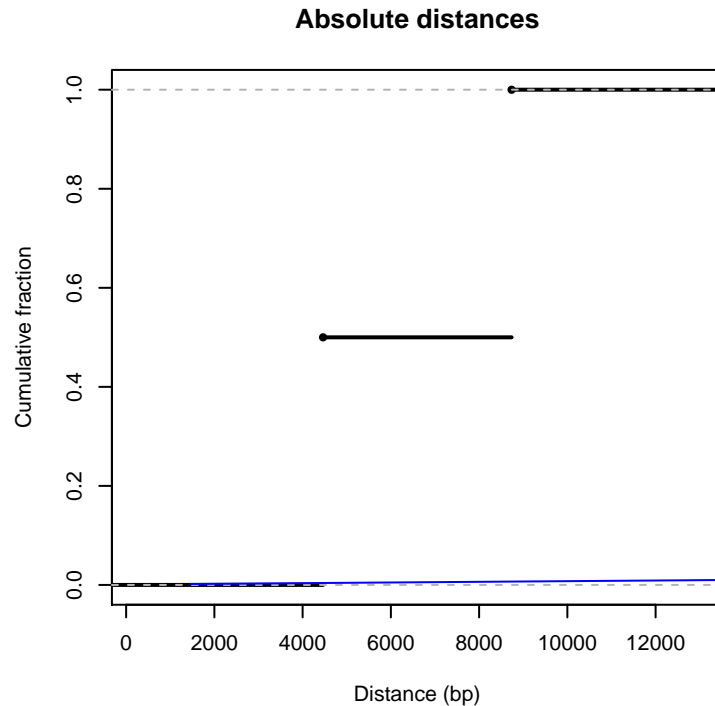
# pcontig\_186

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



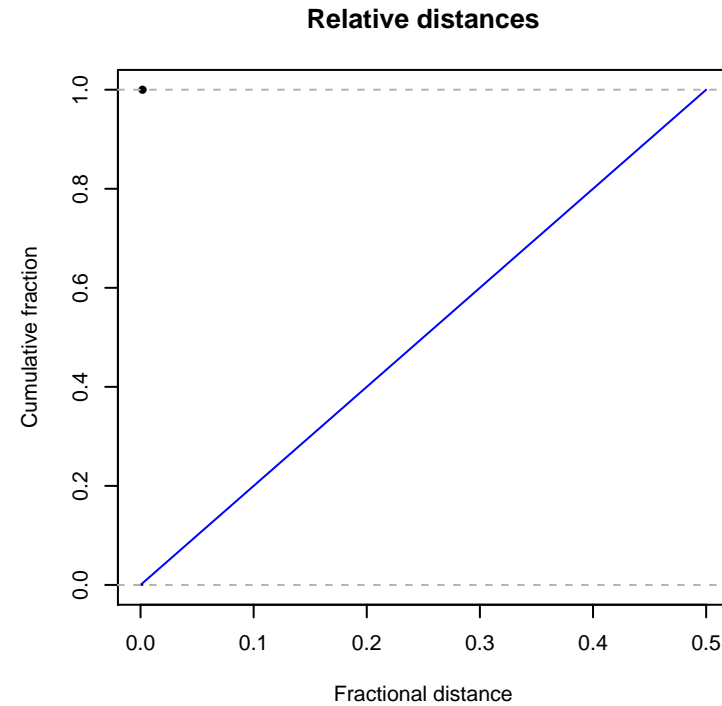
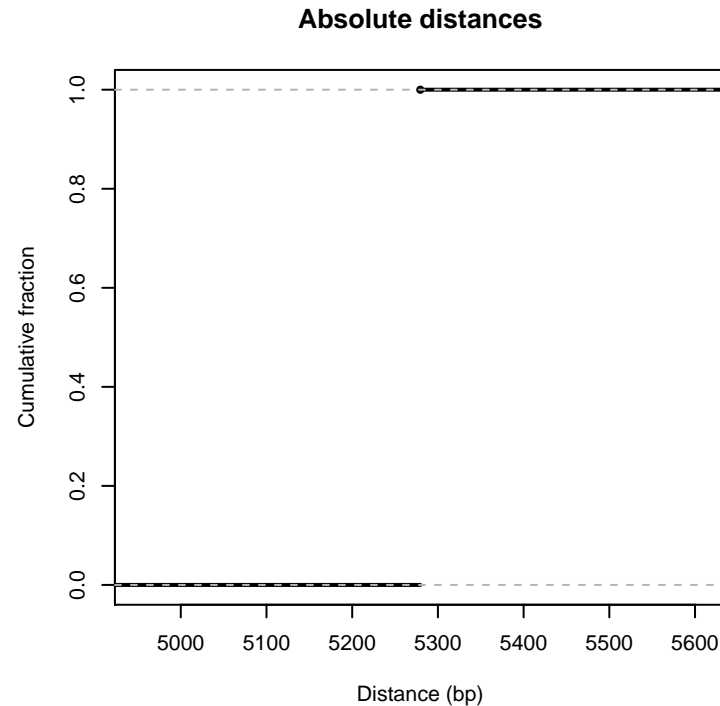
# pcontig\_188

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



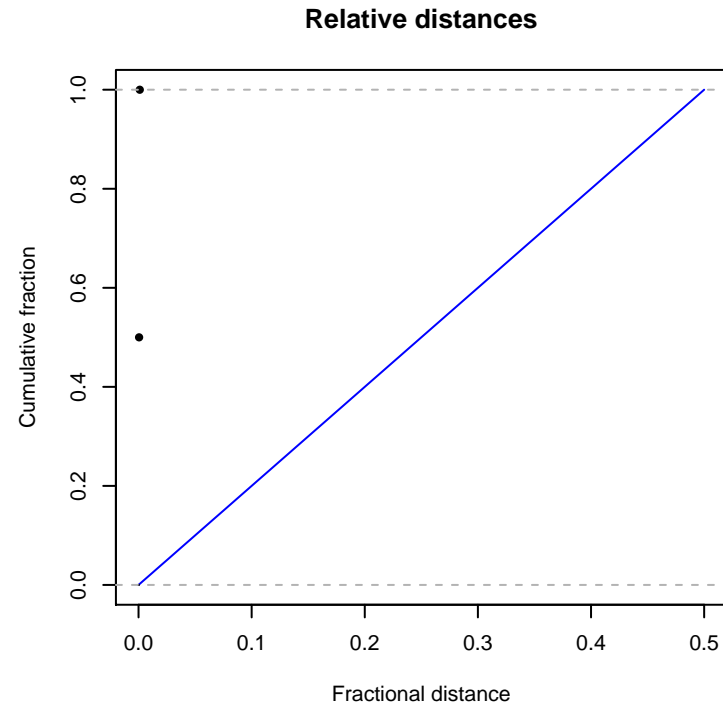
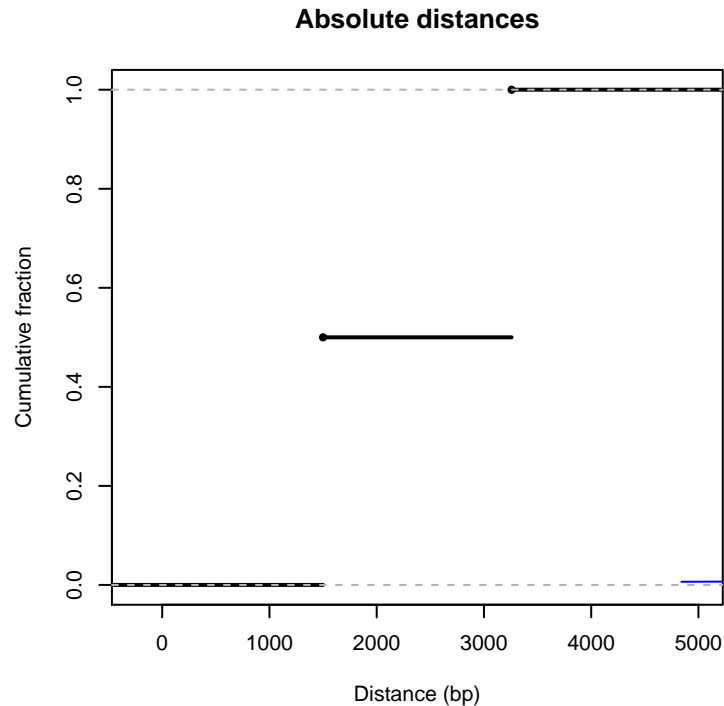
# pcontig\_189

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



# pcontig\_203

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

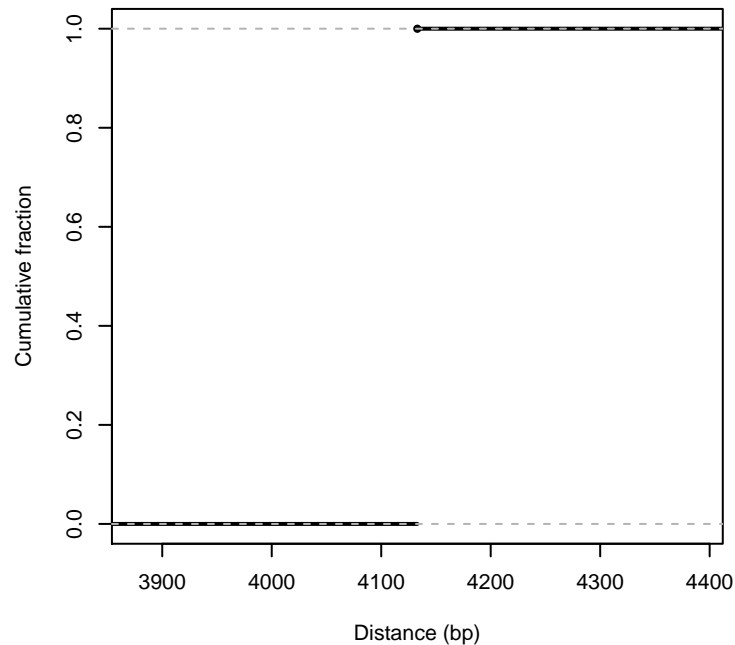




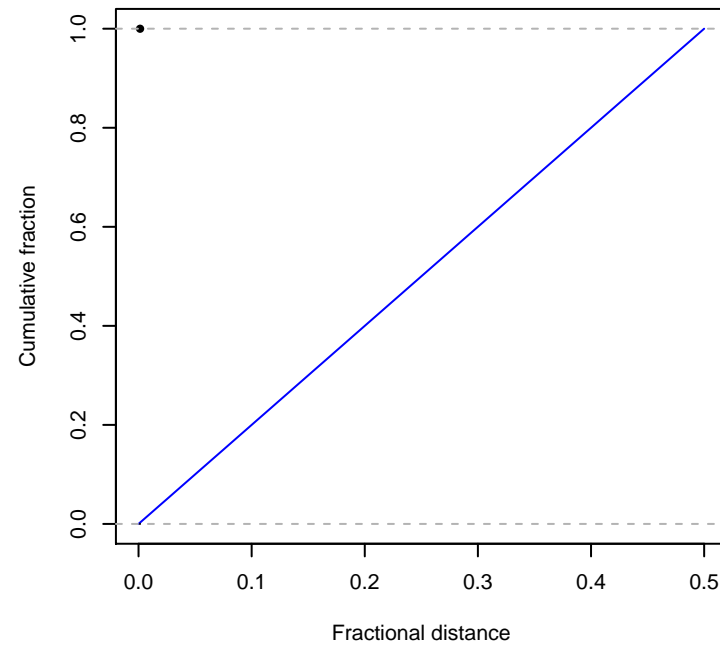
# pcontig\_233

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

Absolute distances



Relative distances



# All Chromosomes

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

