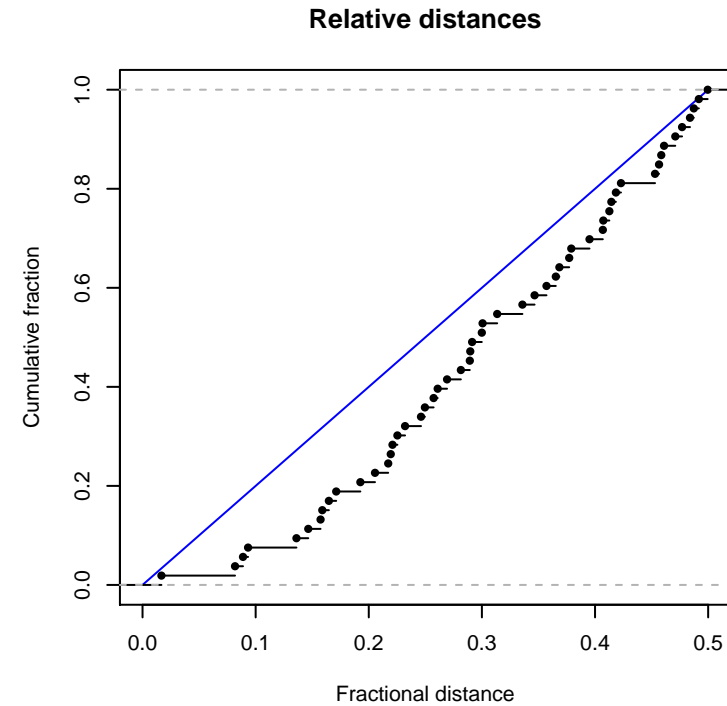
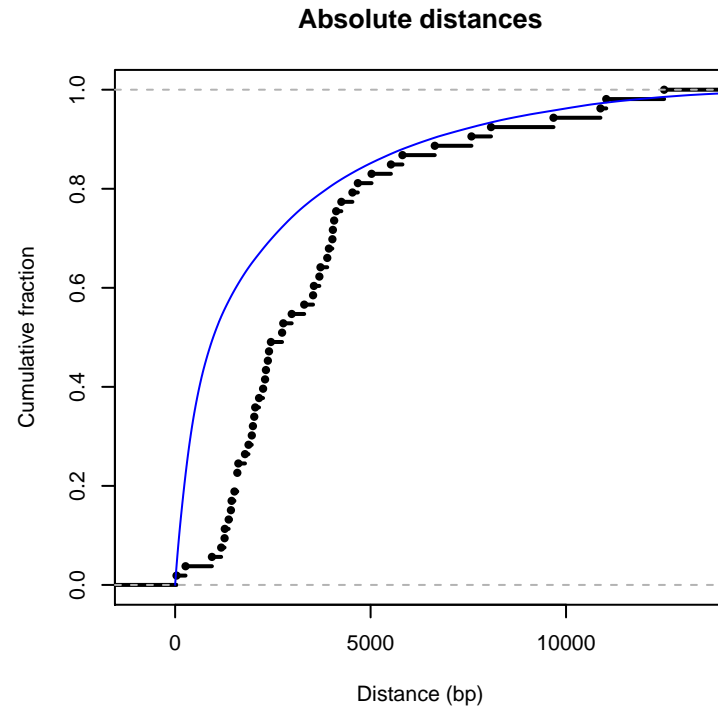


# pcontig\_000

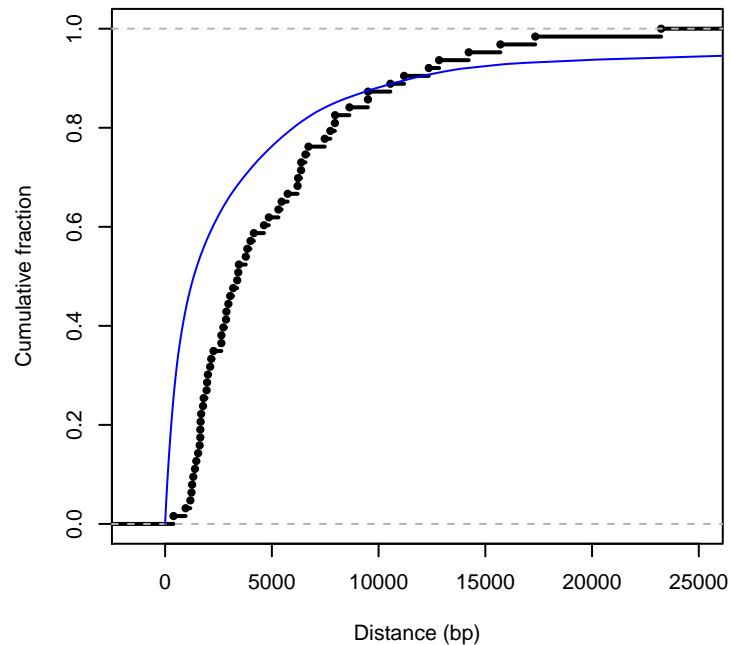
Query population : 53  
Reference population : 1836  
Relative Ks p-value : 0.0173377  
Relative ecdf deviation area : 0.0559149  
Relative ecdf area correlation : -0.224495  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : FALSE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 5.94932e-10  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.092498



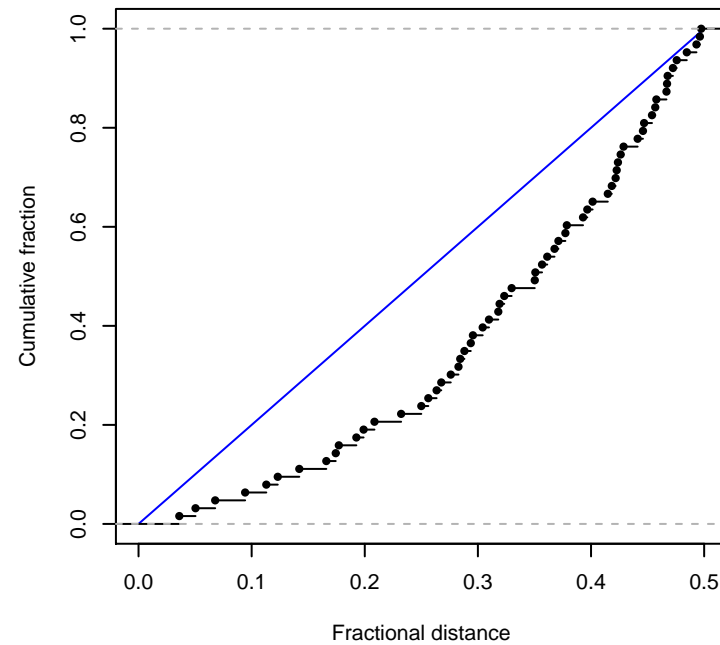
# pcontig\_001

Query population : 63  
Reference population : 1560  
Relative Ks p-value :  $8.688\text{e-}05$   
Relative ecdf deviation area : 0.0787951  
Relative ecdf area correlation :  $-0.315785$   
Relative ecdf deviation area p-value :  $<0.01$   
Scaled Absolute min. distance p-value : 0.34  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value :  $<0.01$   
Jaccard Measure lower tail : TRUE  
Projection test p-value :  $1.27255\text{e-}09$   
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0914683

Absolute distances

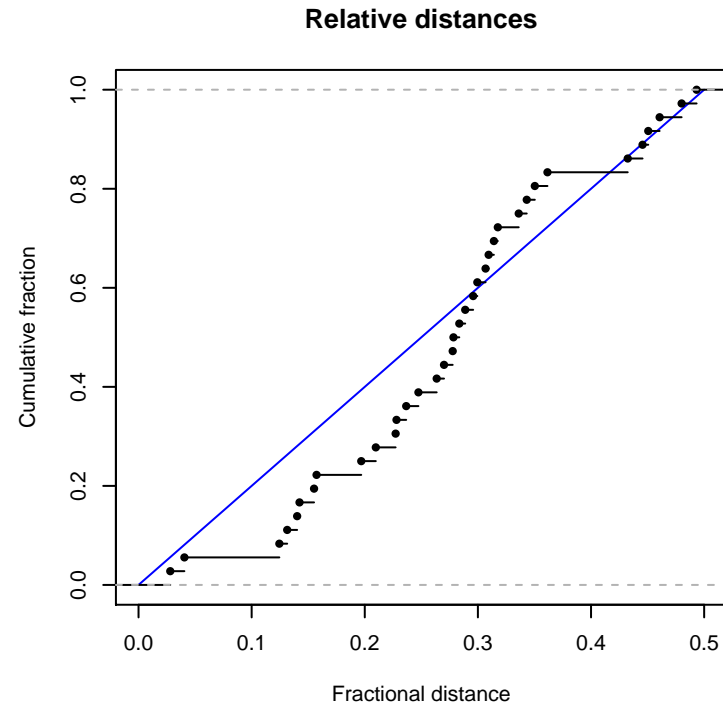
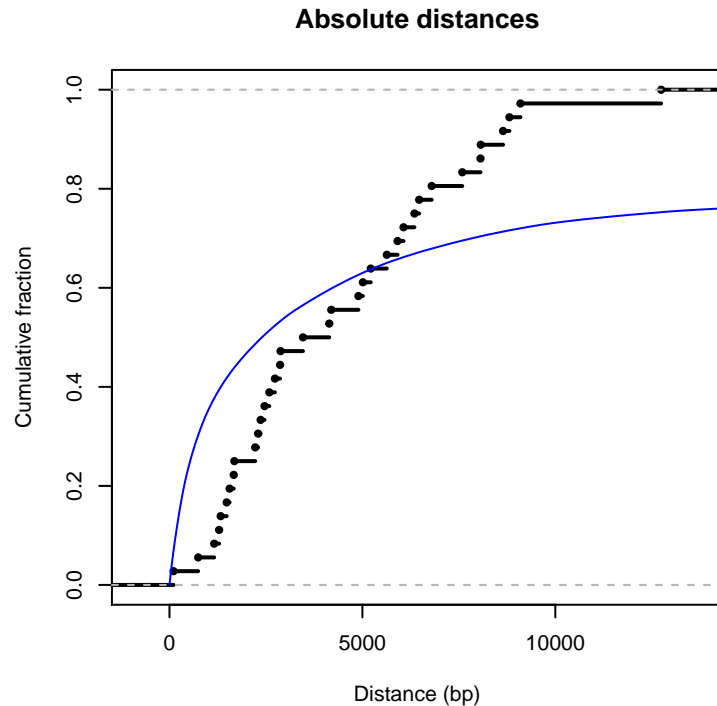


Relative distances



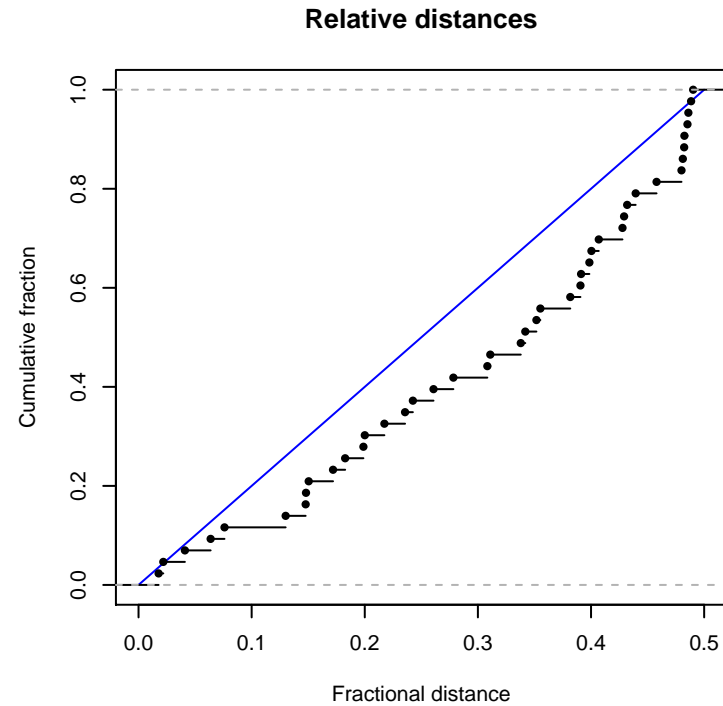
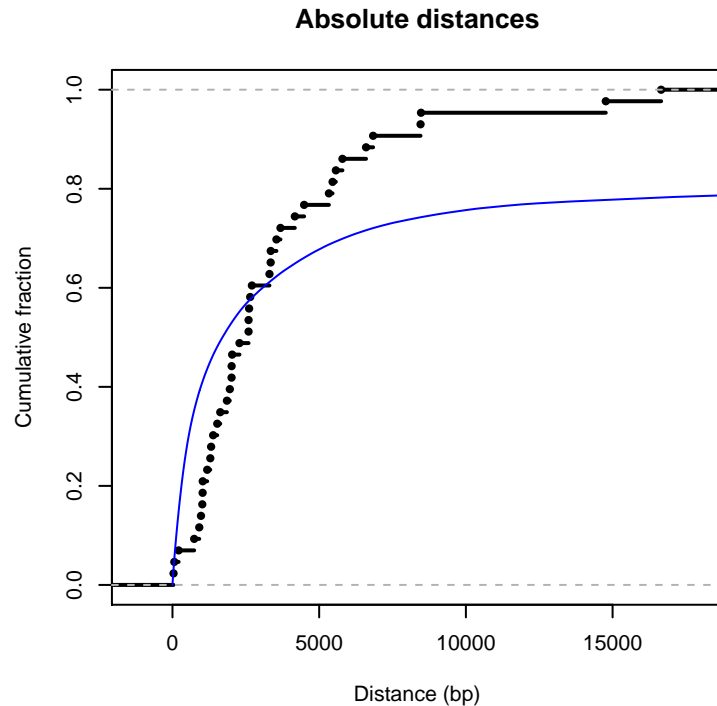
# pcontig\_002

Query population : 36  
Reference population : 1204  
Relative Ks p-value : 0.118121  
Relative ecdf deviation area : 0.0403054  
Relative ecdf area correlation : -0.10274  
Relative ecdf deviation area p-value : 0.09  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0332241  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.48725



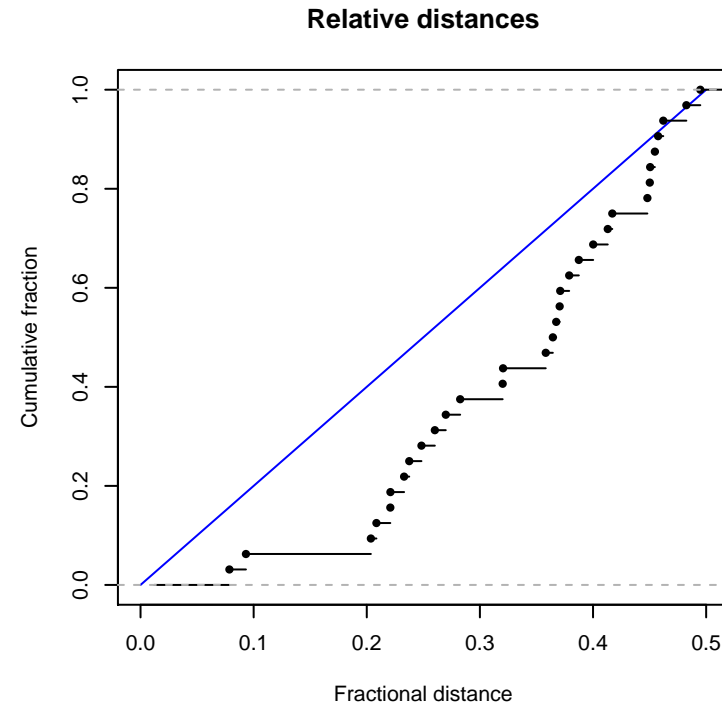
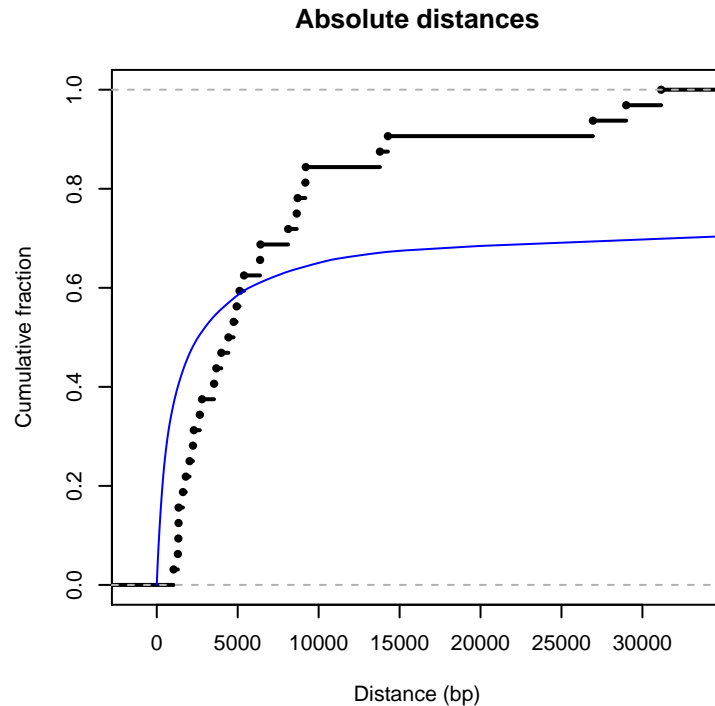
# pcontig\_003

Query population : 43  
Reference population : 1462  
Relative Ks p-value : 0.0374551  
Relative ecdf deviation area : 0.057884  
Relative ecdf area correlation : -0.229979  
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 : 2.76737e-05  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.202893



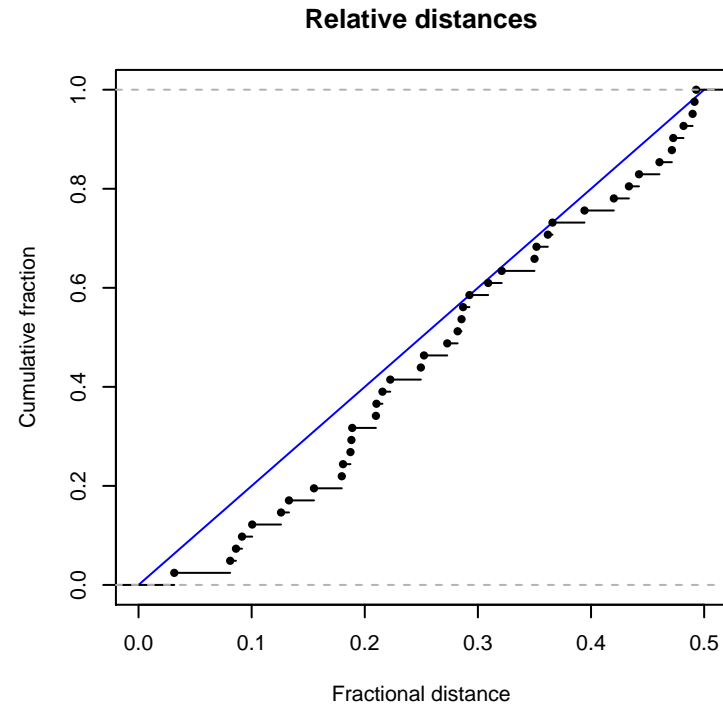
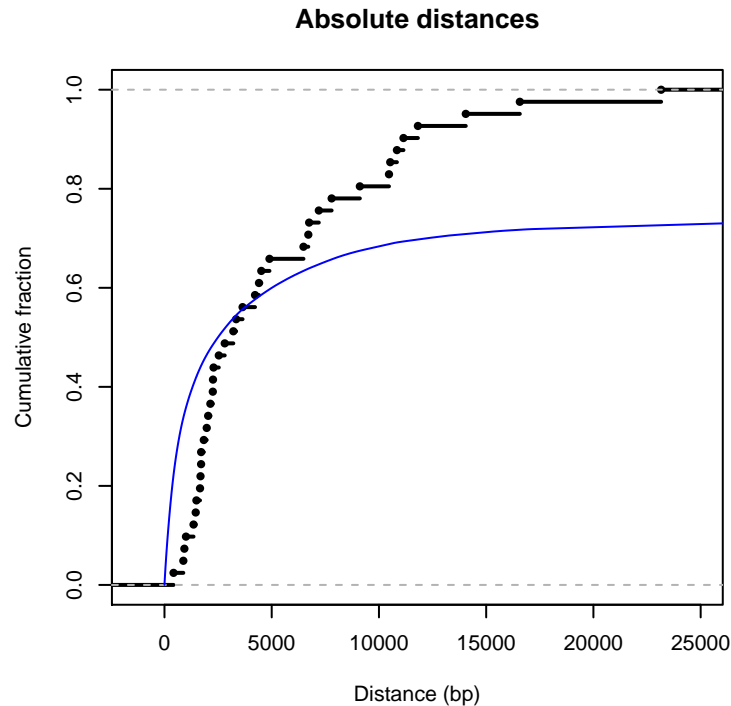
# pcontig\_004

Query population : 32  
Reference population : 1370  
Relative Ks p-value : 0.000669811  
Relative ecdf deviation area : 0.0849212  
Relative ecdf area correlation : -0.340781  
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 : 1.01742e-05  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



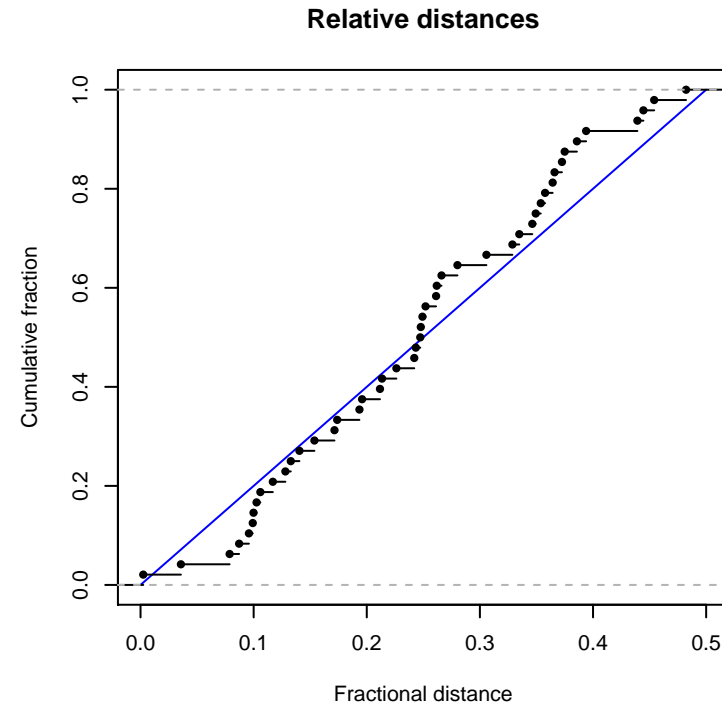
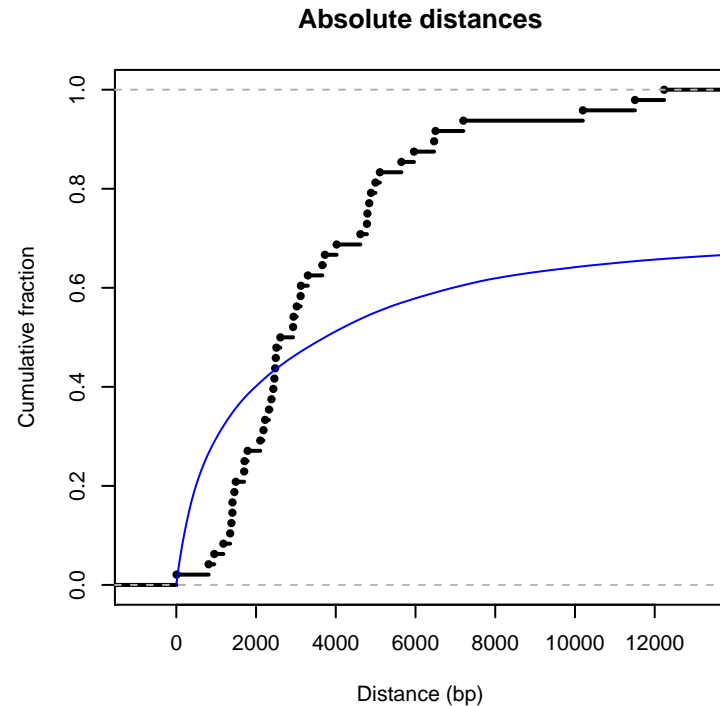
# pcontig\_005

Query population : 41  
Reference population : 1300  
Relative Ks p-value : 0.19584  
Relative ecdf deviation area : 0.0336896  
Relative ecdf area correlation : -0.133719  
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 : 3.75921e-07  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_006

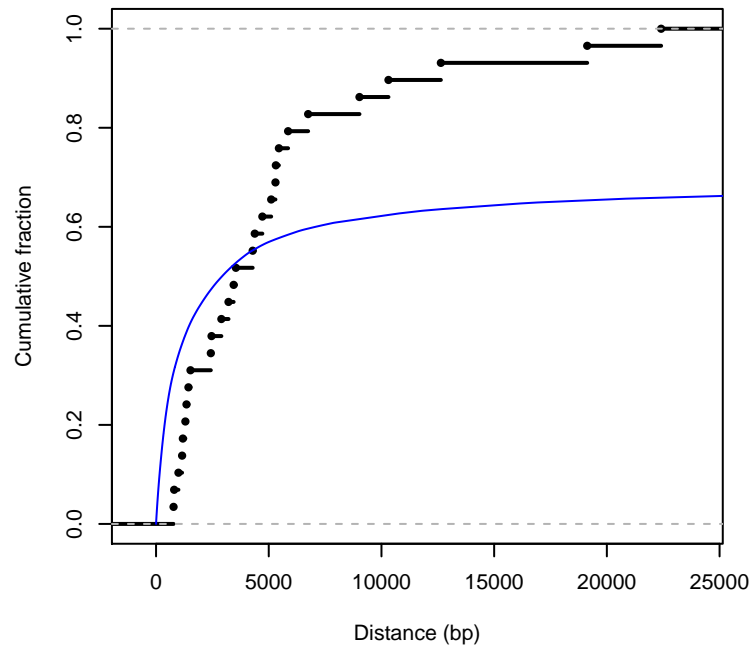
Query population : 48  
Reference population : 1069  
Relative Ks p-value : 0.371012  
Relative ecdf deviation area : 0.0257845  
Relative ecdf area correlation : 0.0191516  
Relative ecdf deviation area p-value : 0.27  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 2.12437e-05  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.0845765



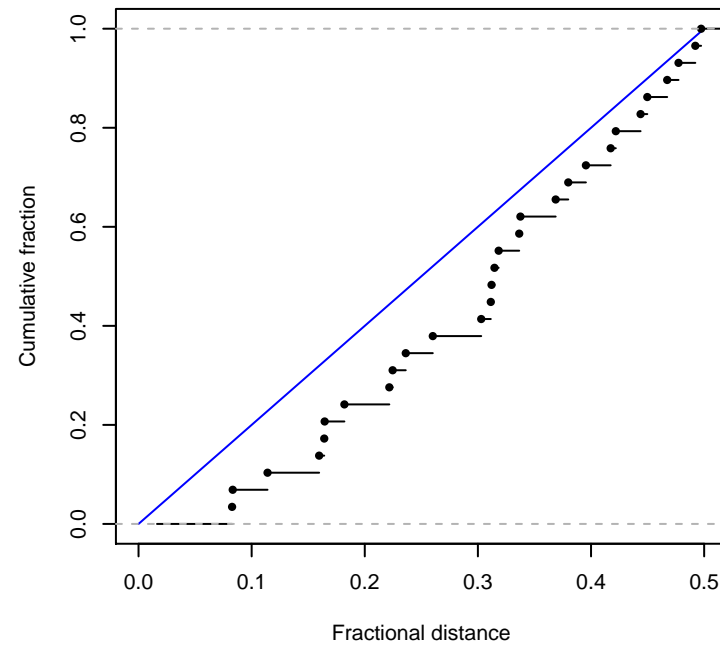
# pcontig\_007

Query population : 29  
Reference population : 1310  
Relative Ks p-value : 0.0864182  
Relative ecdf deviation area : 0.0581803  
Relative ecdf area correlation : -0.232768  
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 : 0.00271496  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.228889

Absolute distances



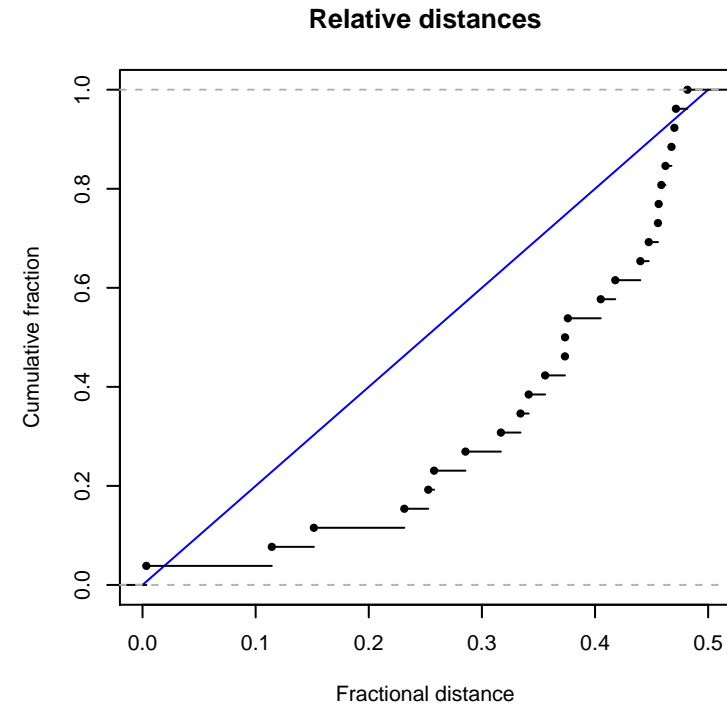
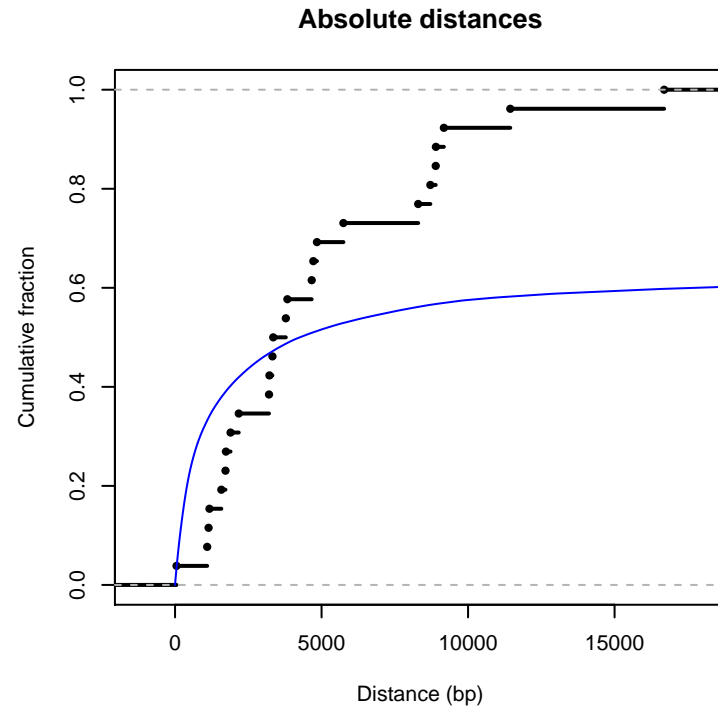
Relative distances





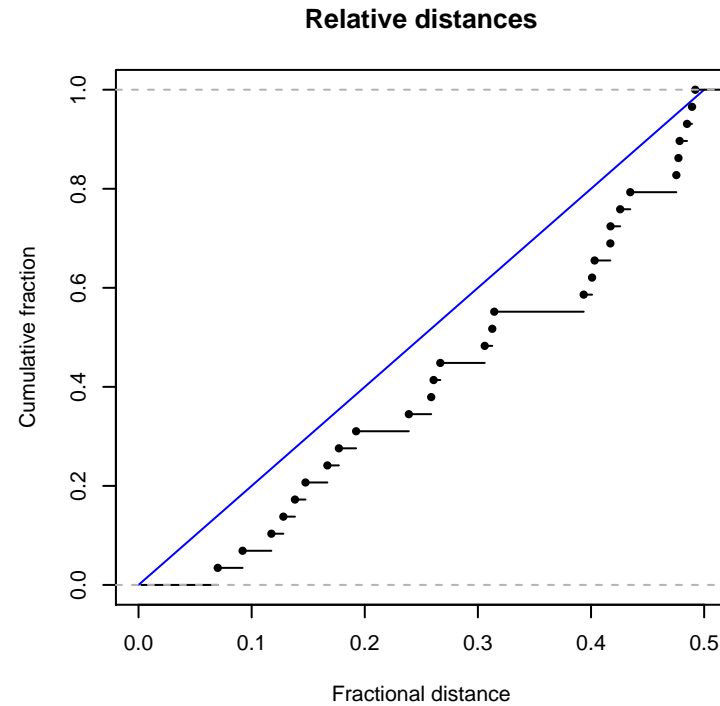
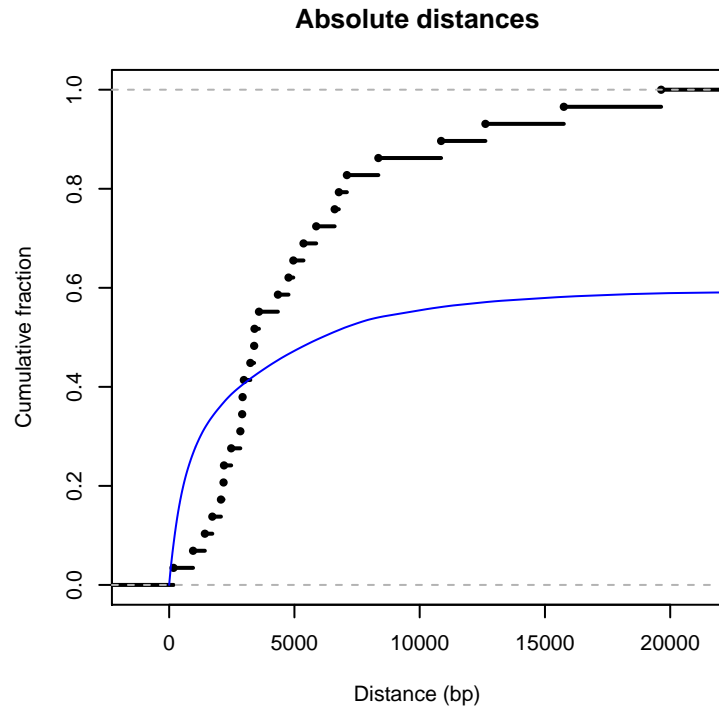
# pcontig\_008

Query population : 26  
Reference population : 1175  
Relative Ks p-value : 0.0013348  
Relative ecdf deviation area : 0.105014  
Relative ecdf area correlation : -0.415613  
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 : 0.00367141  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.14619



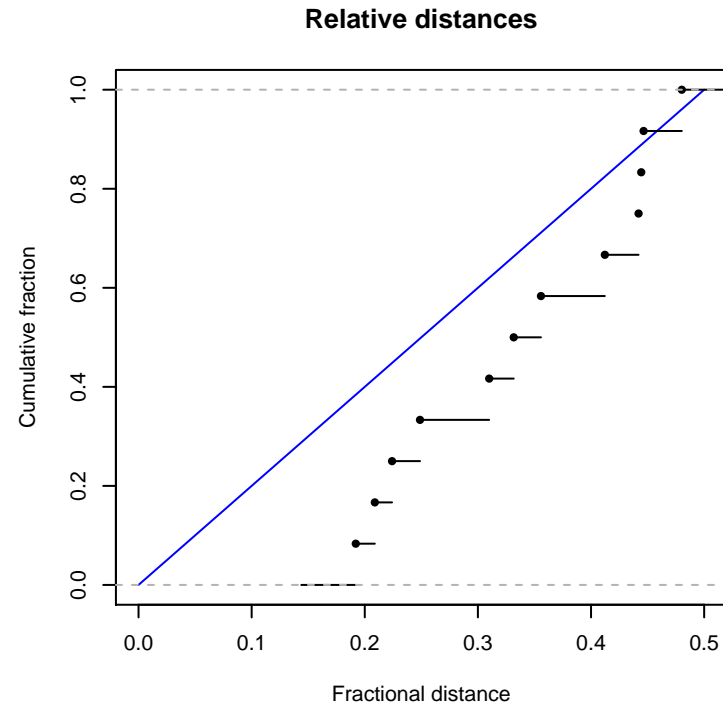
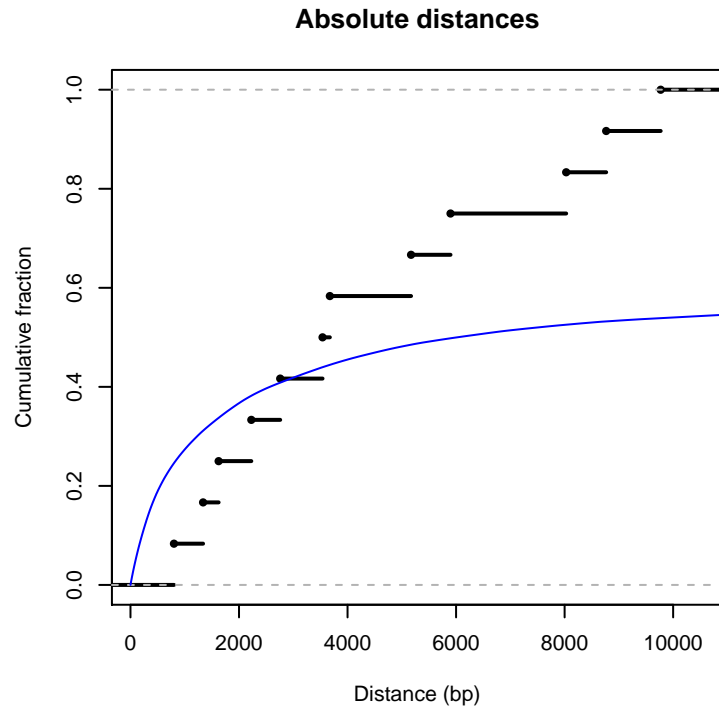
# pcontig\_009

Query population : 29  
Reference population : 954  
Relative Ks p-value : 0.067695  
Relative ecdf deviation area : 0.0598142  
Relative ecdf area correlation : -0.238328  
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 : 0.00397593  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.145749



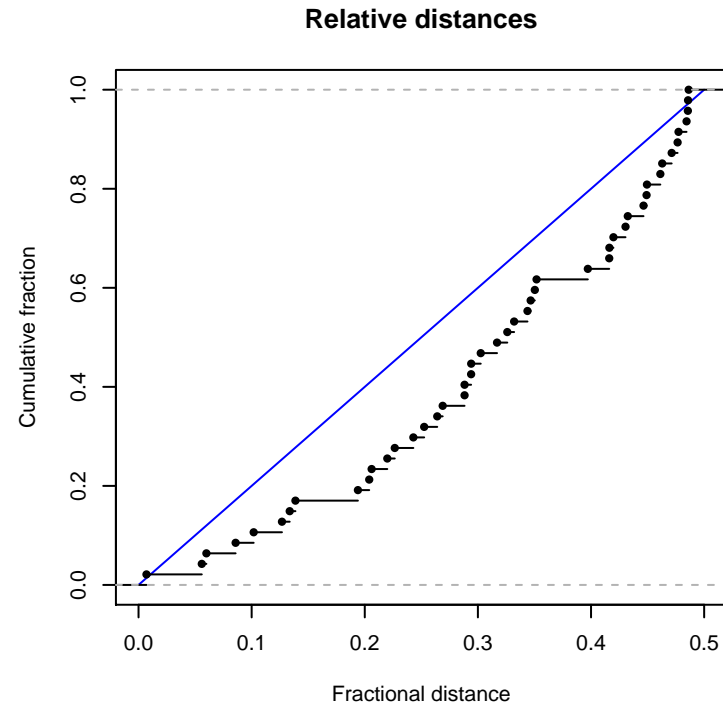
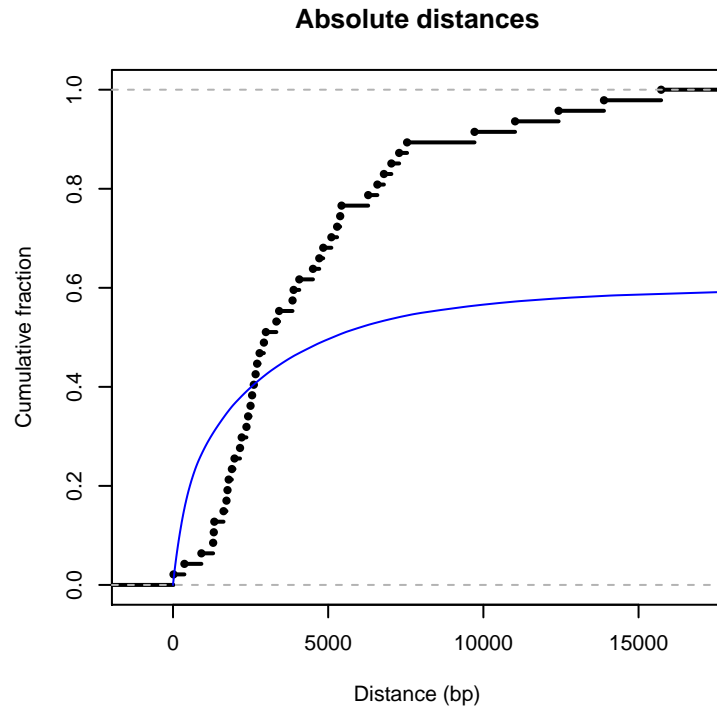
# pcontig\_010

Query population : 12  
Reference population : 972  
Relative Ks p-value : 0.0421249  
Relative ecdf deviation area : 0.0930997  
Relative ecdf area correlation : -0.365521  
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 : TRUE  
Projection test p-value : 0.204065  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.365803



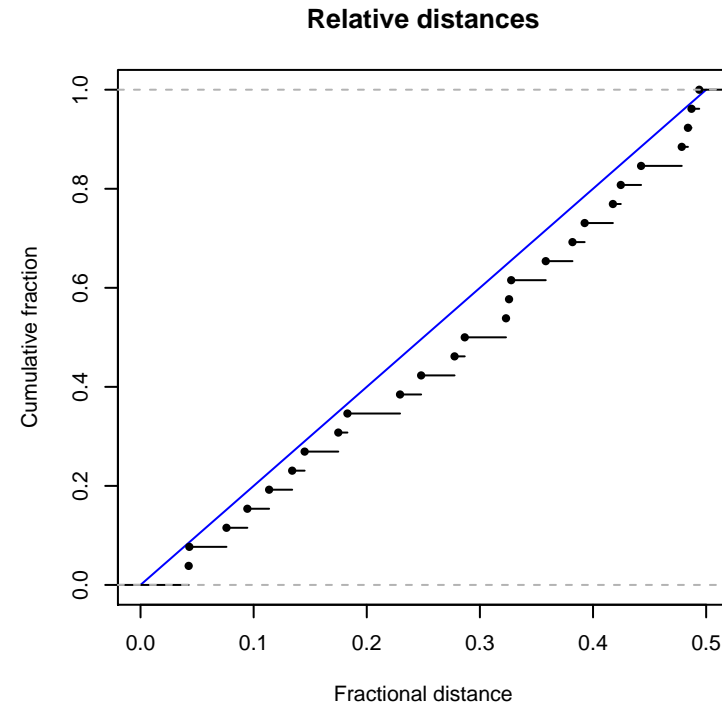
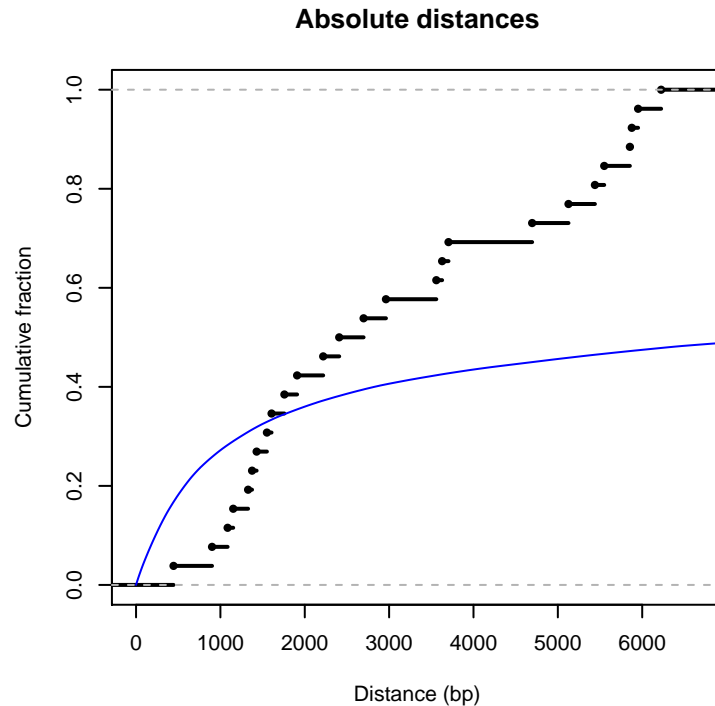
# pcontig\_011

Query population : 47  
Reference population : 1007  
Relative Ks p-value : 0.0195699  
Relative ecdf deviation area : 0.0648078  
Relative ecdf area correlation : -0.257171  
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 : 0.00106117  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.197462



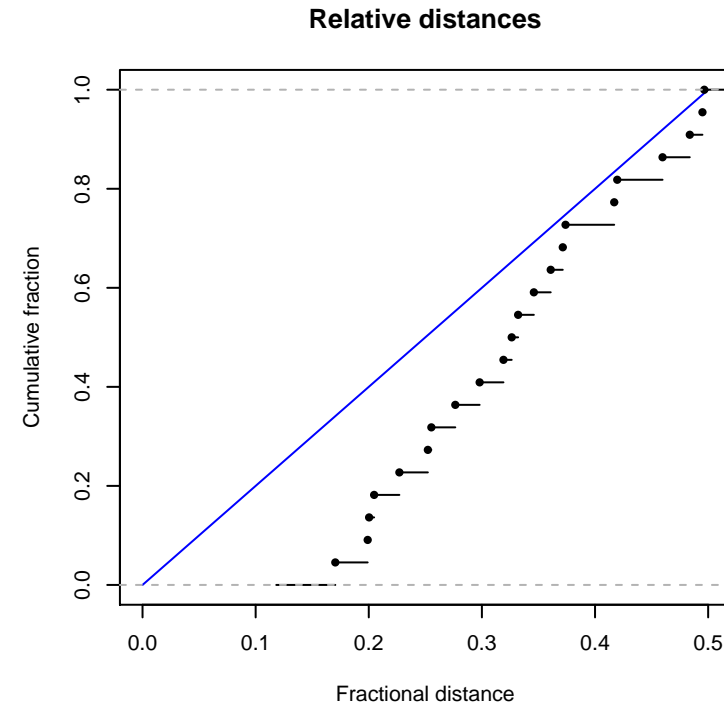
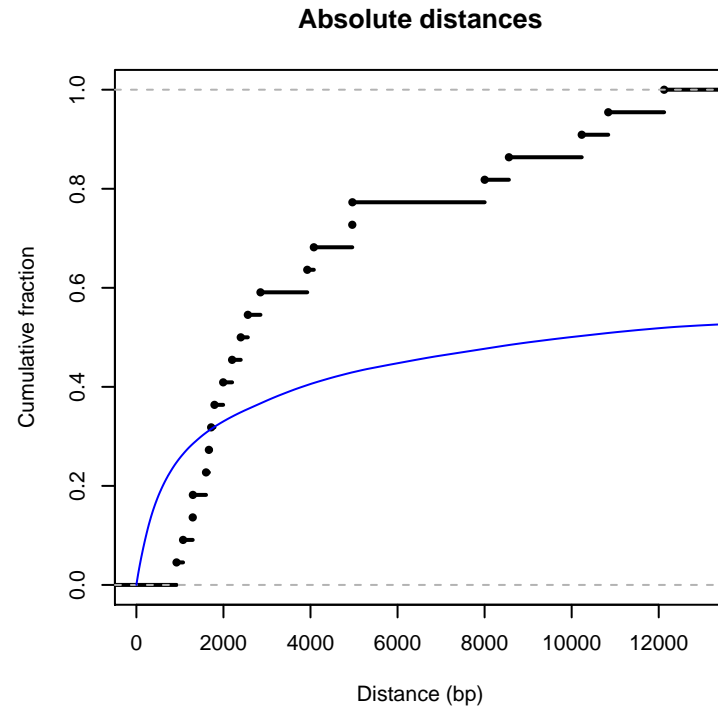
# pcontig\_012

Query population : 26  
Reference population : 897  
Relative Ks p-value : 0.584689  
Relative ecdf deviation area : 0.0356081  
Relative ecdf area correlation : -0.136212  
Relative ecdf deviation area p-value : 0.28  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.012127  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.172809



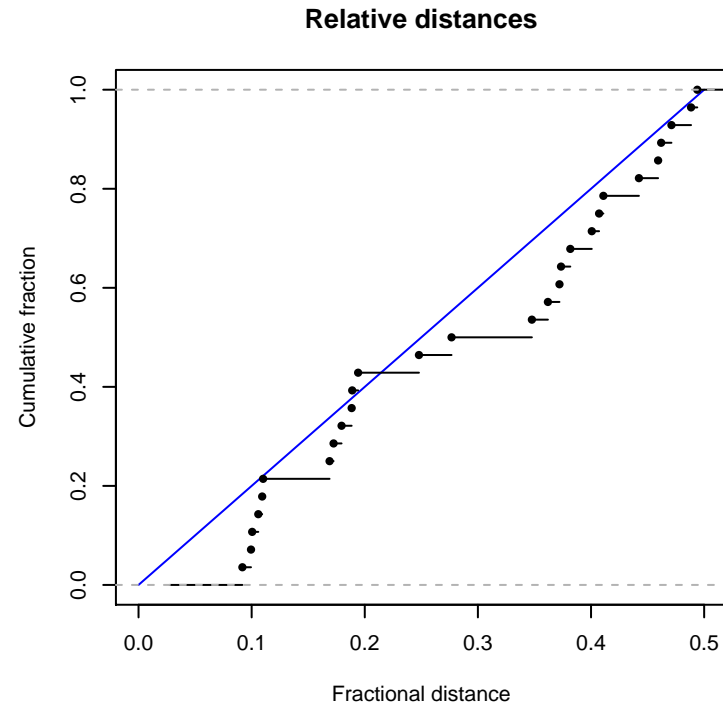
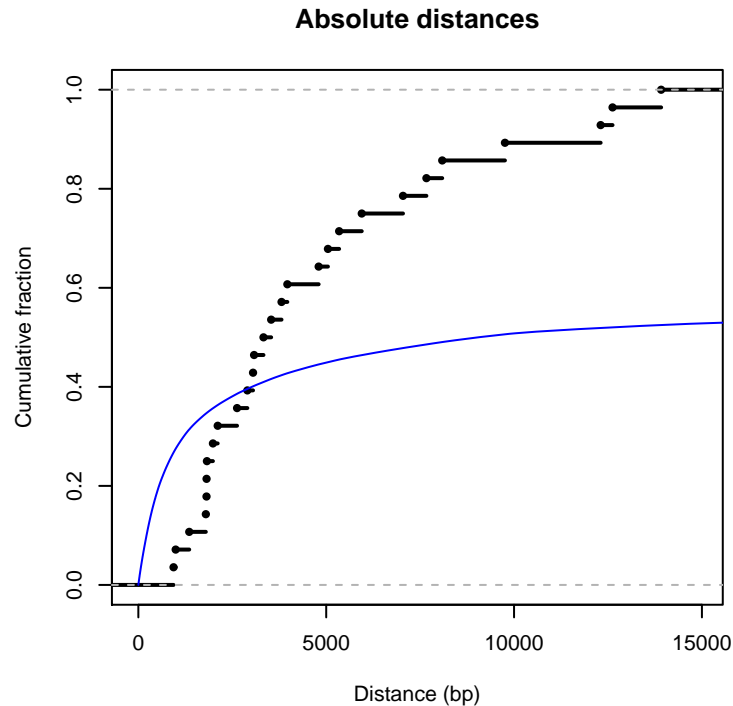
# pcontig\_013

Query population : 22  
Reference population : 936  
Relative Ks p-value : 0.00596044  
Relative ecdf deviation area : 0.0812097  
Relative ecdf area correlation : -0.324503  
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 : 0.00516508  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



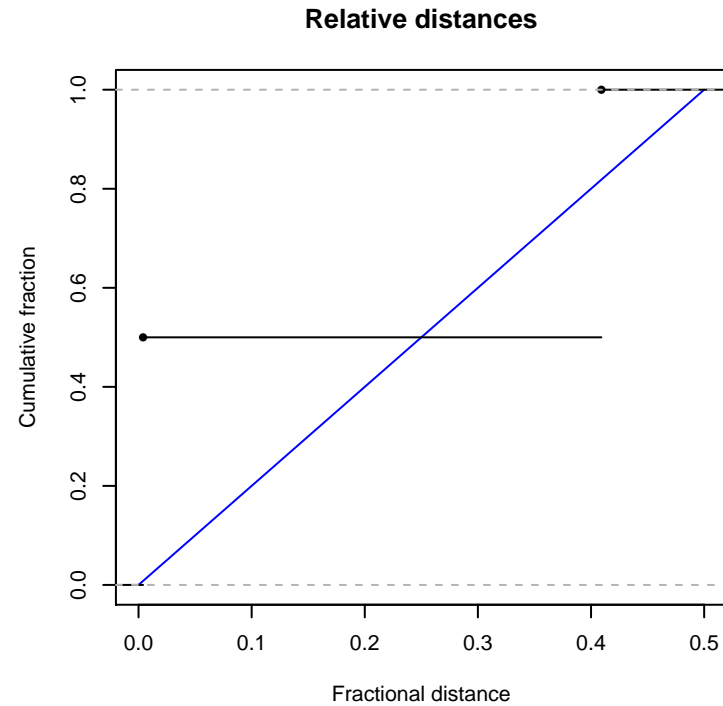
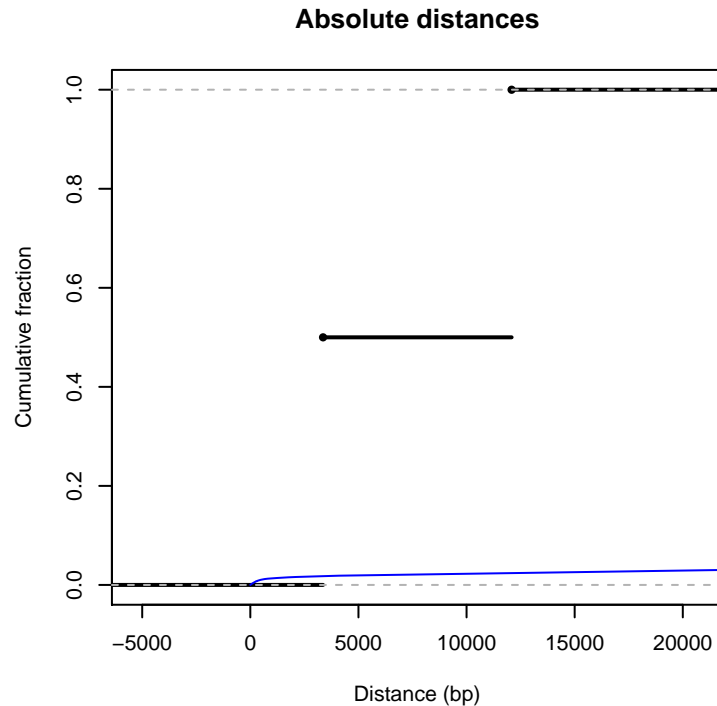
# pcontig\_014

Query population : 28  
Reference population : 941  
Relative Ks p-value : 0.205986  
Relative ecdf deviation area : 0.0407242  
Relative ecdf area correlation : -0.158077  
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 : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.000392073  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_015

Query population : 2  
Reference population : 62  
Relative Ks p-value : 0.531459  
Relative ecdf deviation area : 0.0944737  
Relative ecdf area correlation : 0.173693  
Relative ecdf deviation area p-value : 0.56  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0266394  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

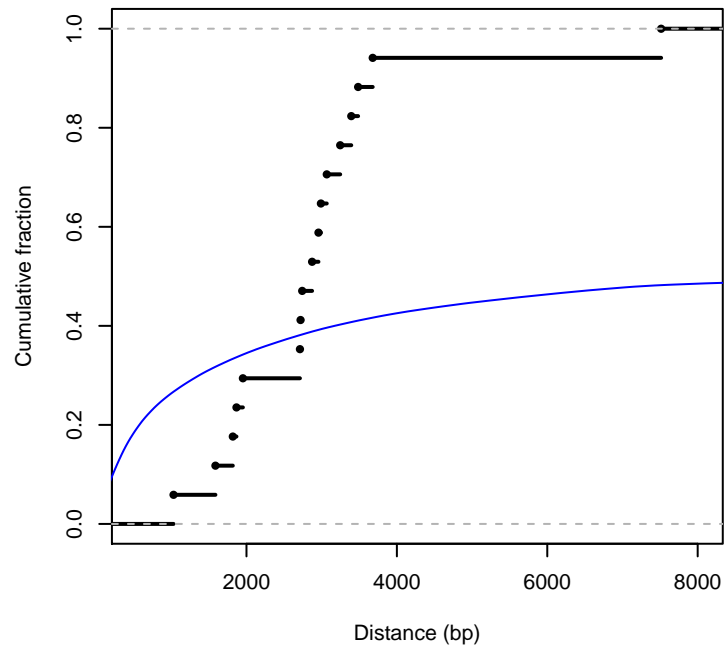




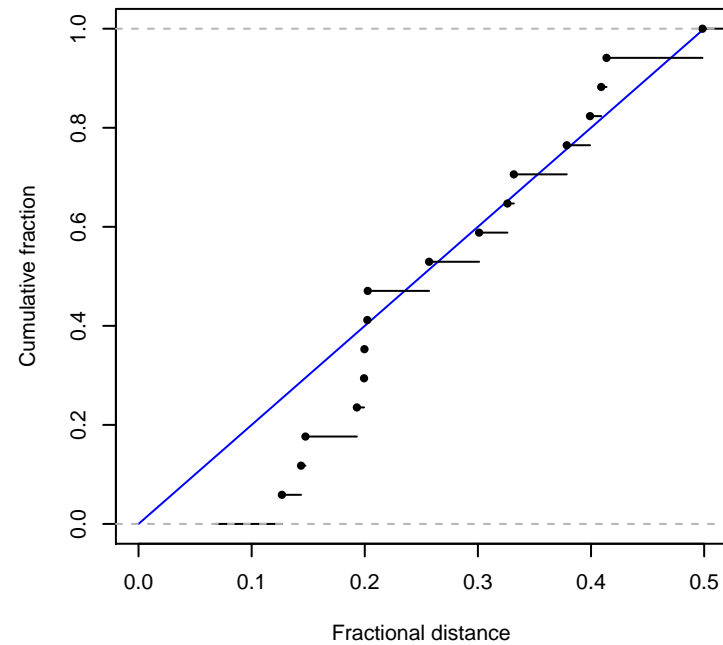
# pcontig\_016

Query population : 17  
Reference population : 956  
Relative Ks p-value : 0.188976  
Relative ecdf deviation area : 0.0390615  
Relative ecdf area correlation : -0.112809  
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 : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0118867  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

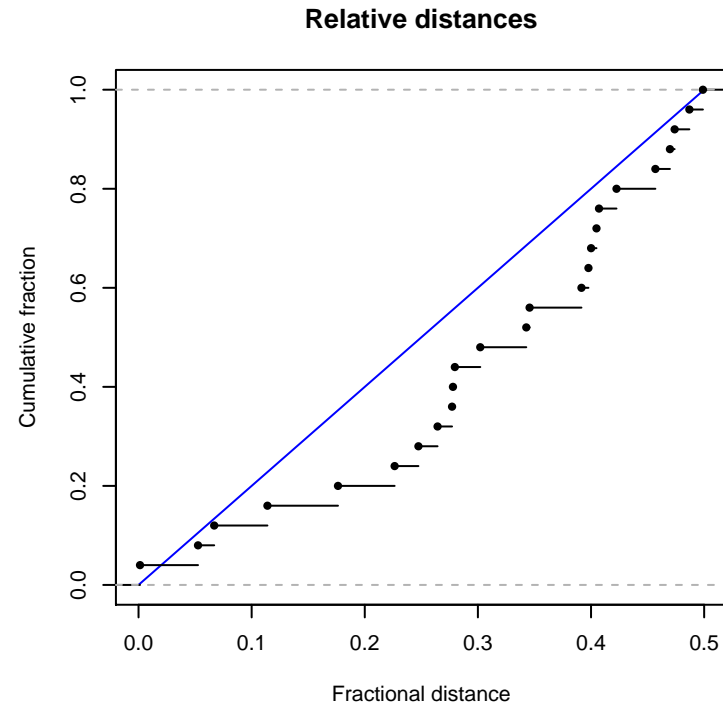
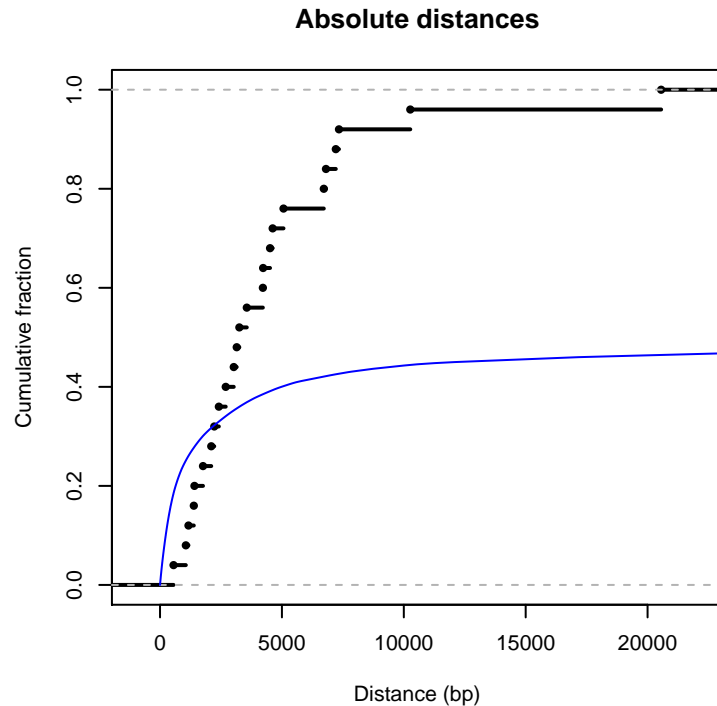


Relative distances



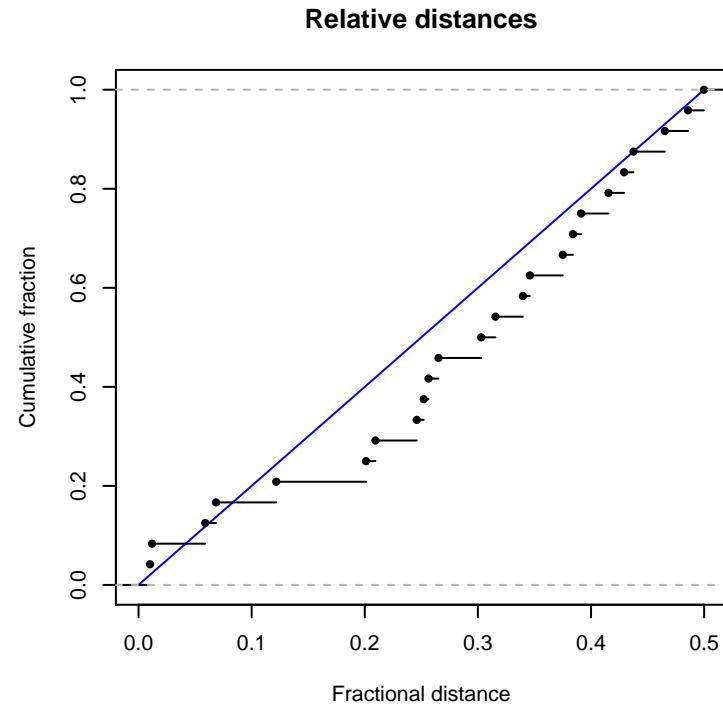
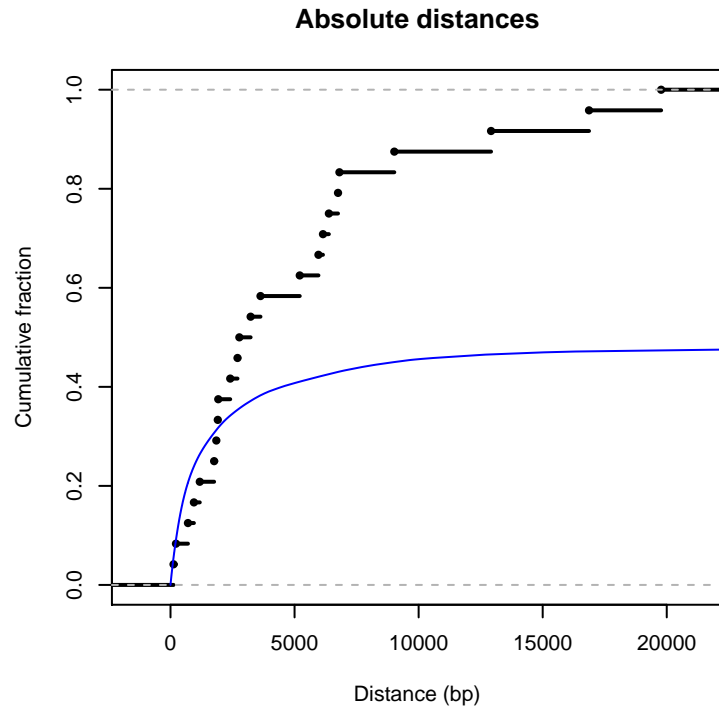
# pcontig\_017

Query population : 25  
Reference population : 912  
Relative Ks p-value : 0.0642622  
Relative ecdf deviation area : 0.0621333  
Relative ecdf area correlation : -0.245548  
Relative ecdf deviation area p-value : 0.08  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.00435423  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_018

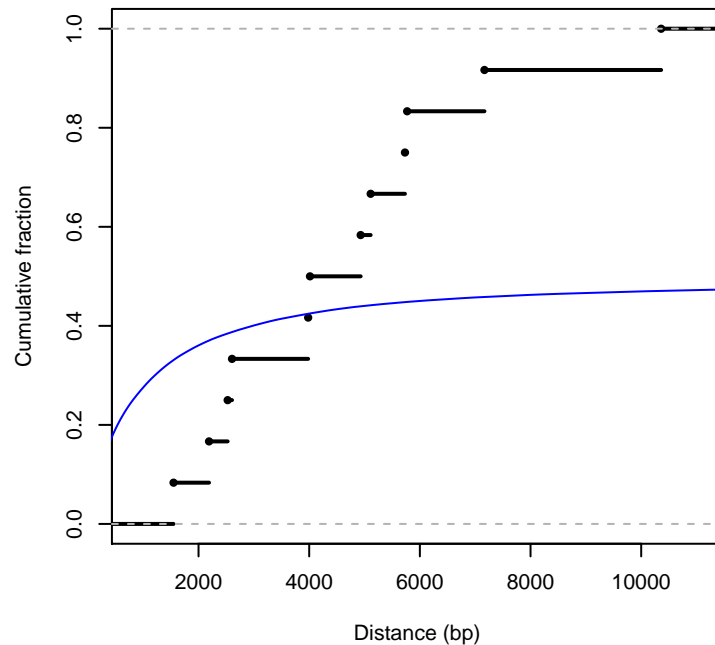
Query population : 24  
Reference population : 854  
Relative Ks p-value : 0.254425  
Relative ecdf deviation area : 0.0397298  
Relative ecdf area correlation : -0.148123  
Relative ecdf deviation area p-value : 0.25  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.07  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.204438  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.577317



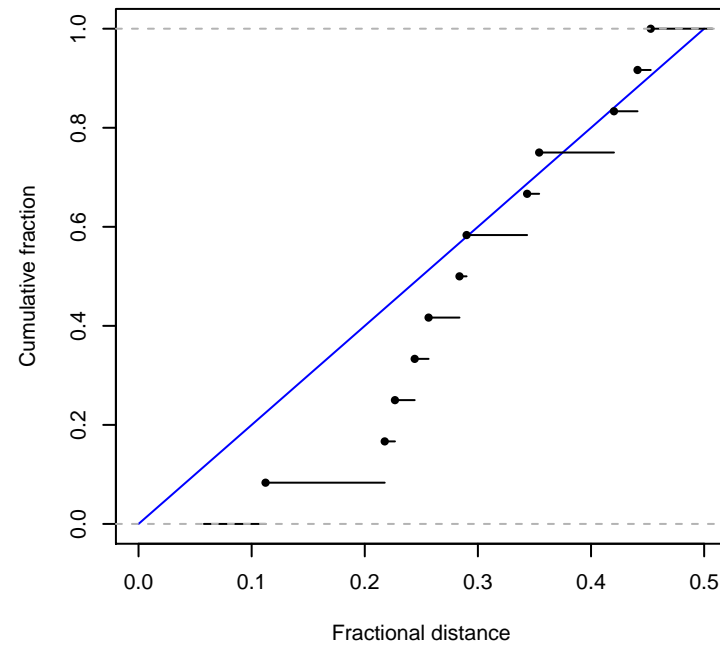
# pcontig\_019

Query population : 12  
Reference population : 1007  
Relative Ks p-value : 0.0781577  
Relative ecdf deviation area : 0.0595805  
Relative ecdf area correlation : -0.214224  
Relative ecdf deviation area p-value : 0.26  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0328064  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

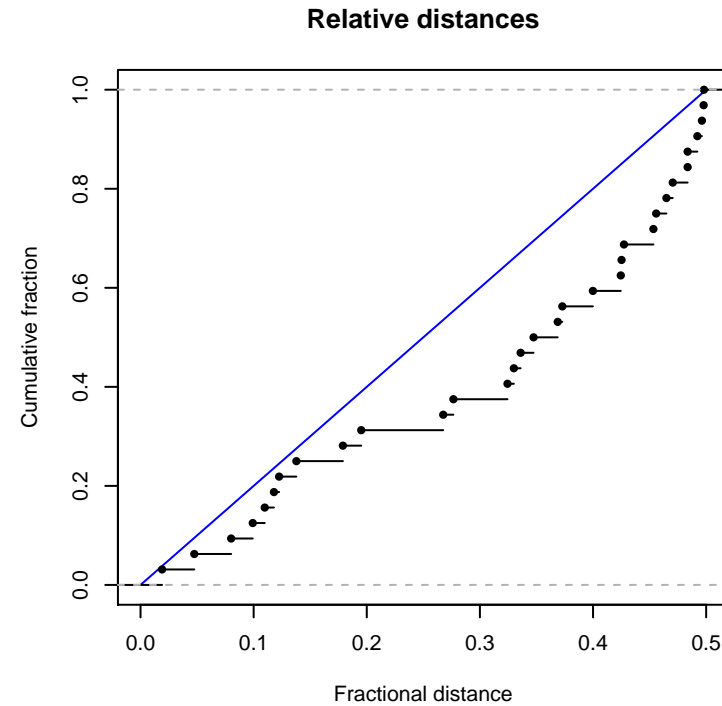
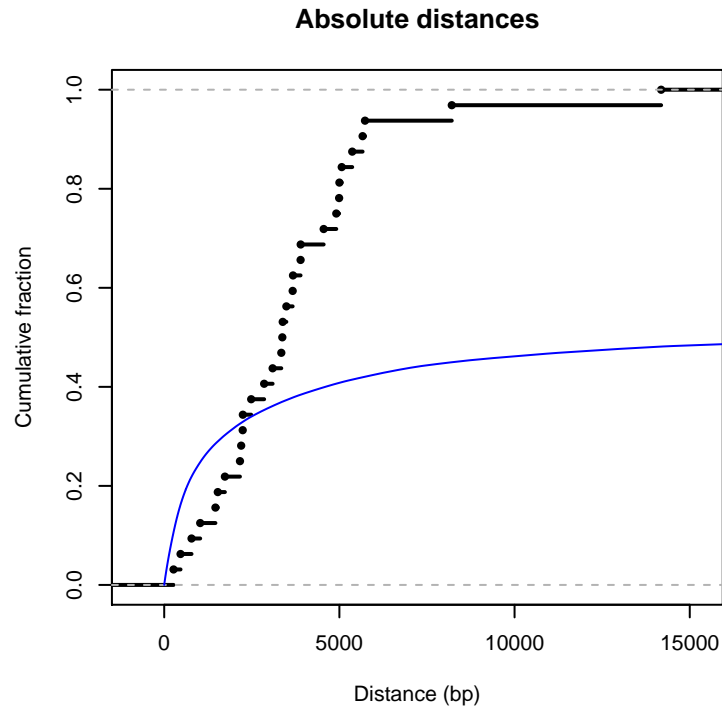


Relative distances



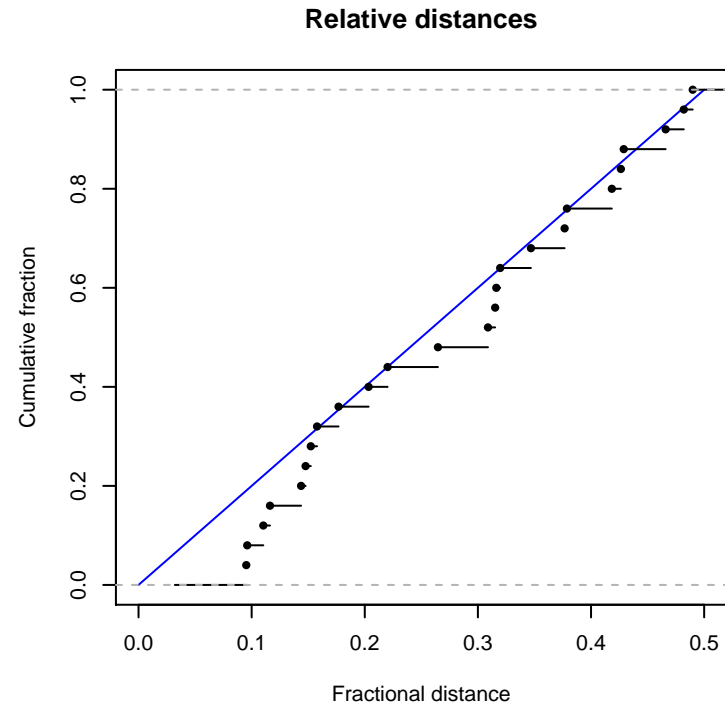
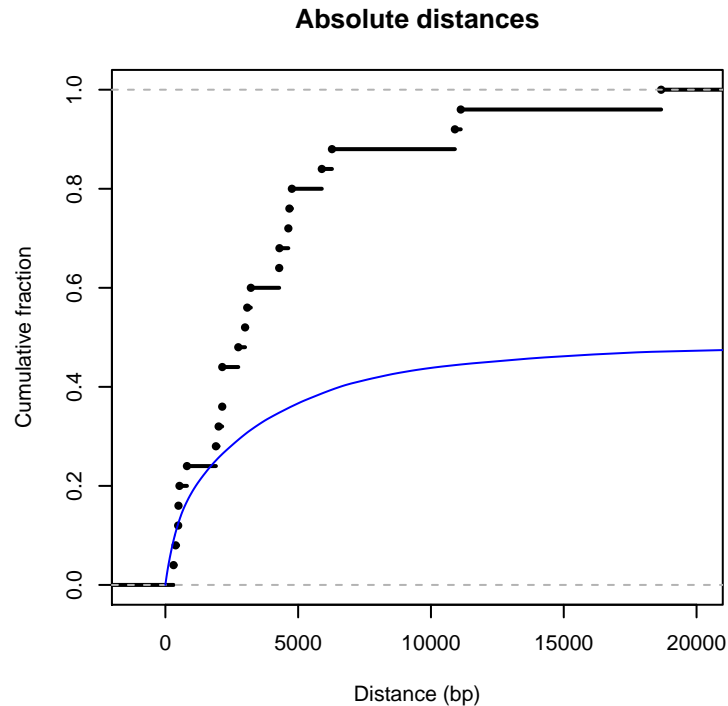
# pcontig\_020

Query population : 32  
Reference population : 826  
Relative Ks p-value : 0.0130458  
Relative ecdf deviation area : 0.0684677  
Relative ecdf area correlation : -0.27558  
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 : 0.0258295  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.301977



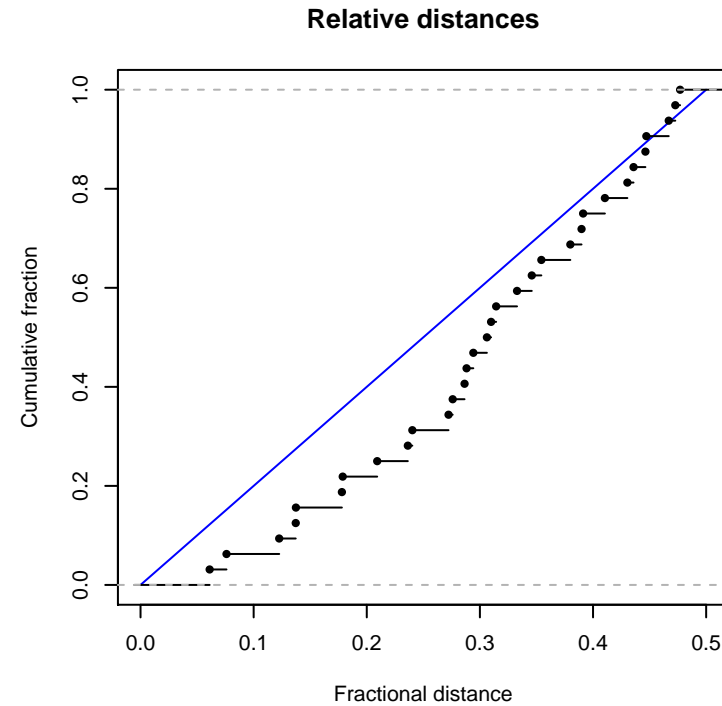
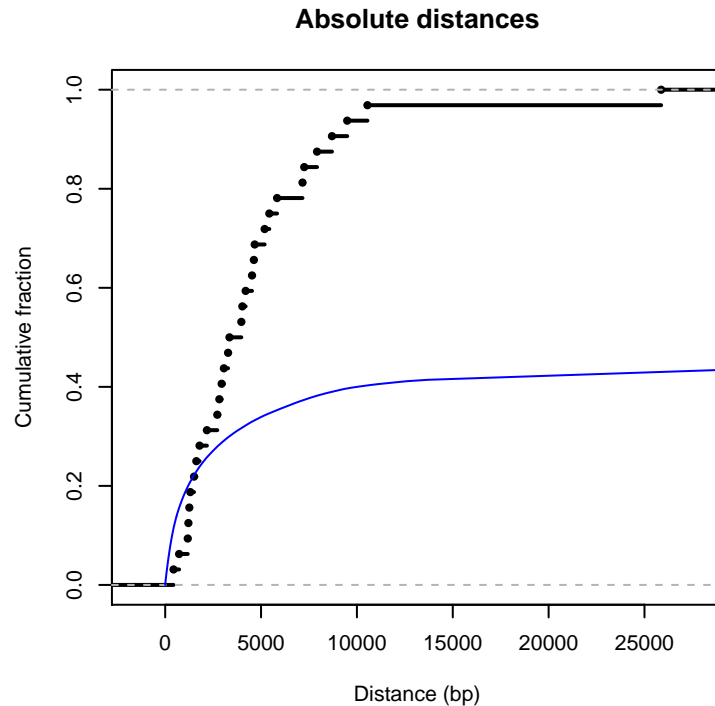
# pcontig\_021

Query population : 25  
Reference population : 659  
Relative Ks p-value : 0.286688  
Relative ecdf deviation area : 0.0283175  
Relative ecdf area correlation : -0.113322  
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 : 0.49  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.237369  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.519956



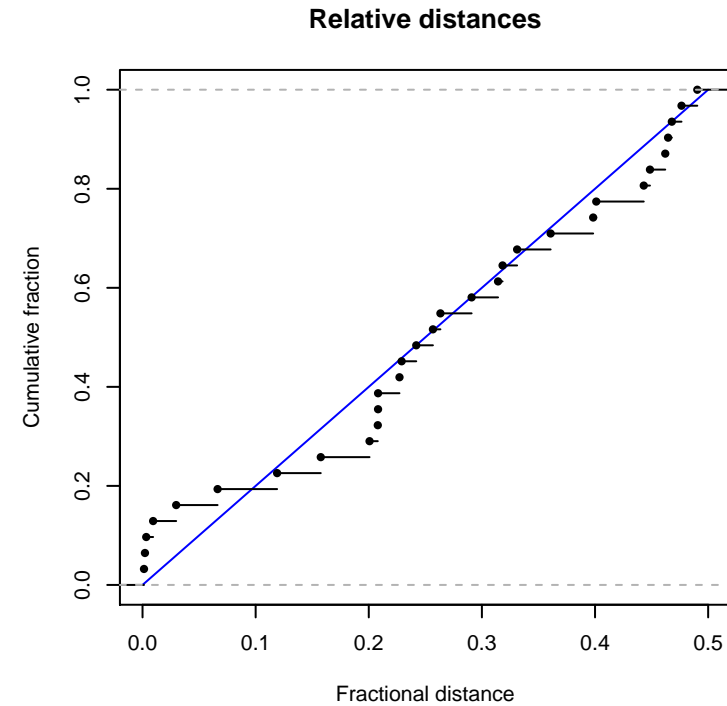
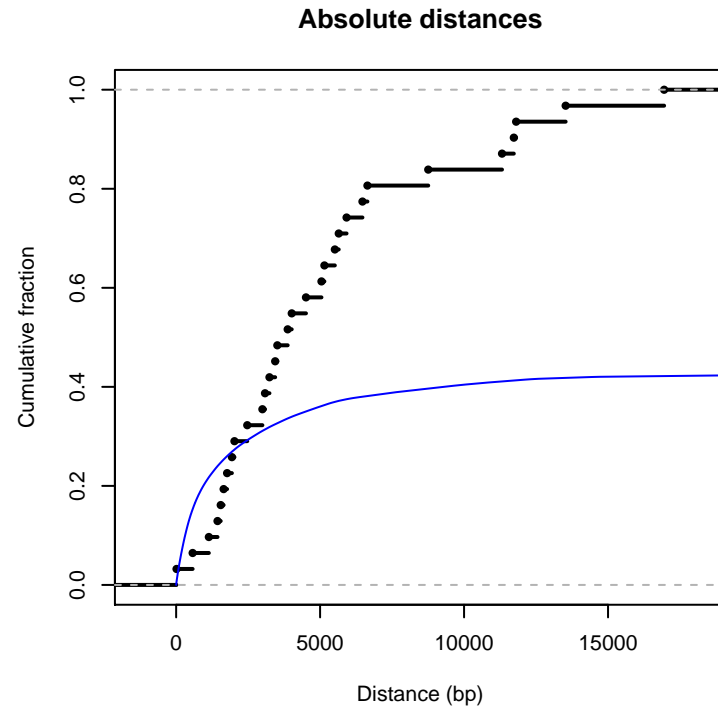
# pcontig\_022

Query population : 32  
Reference population : 643  
Relative Ks p-value : 0.0535694  
Relative ecdf deviation area : 0.0543078  
Relative ecdf area correlation : -0.213133  
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 : 0.351411  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.739945



# pcontig\_023

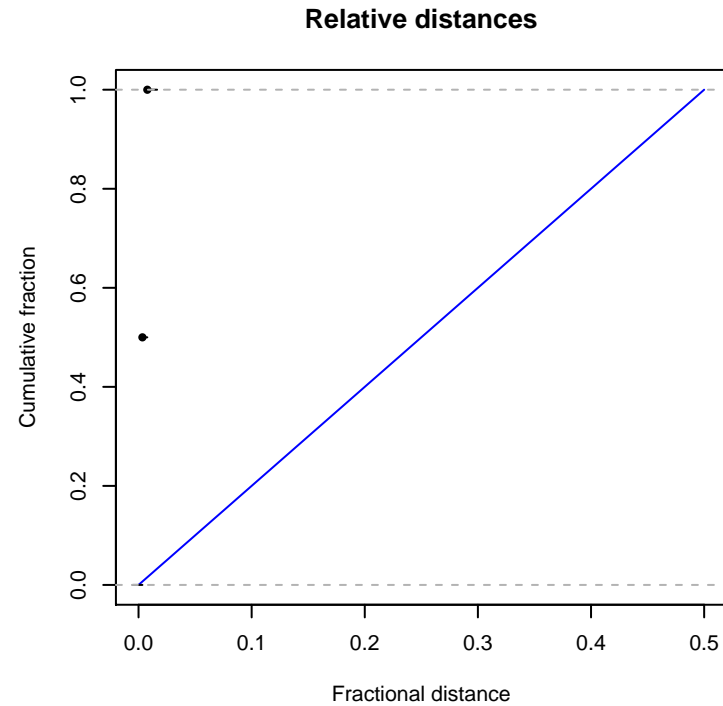
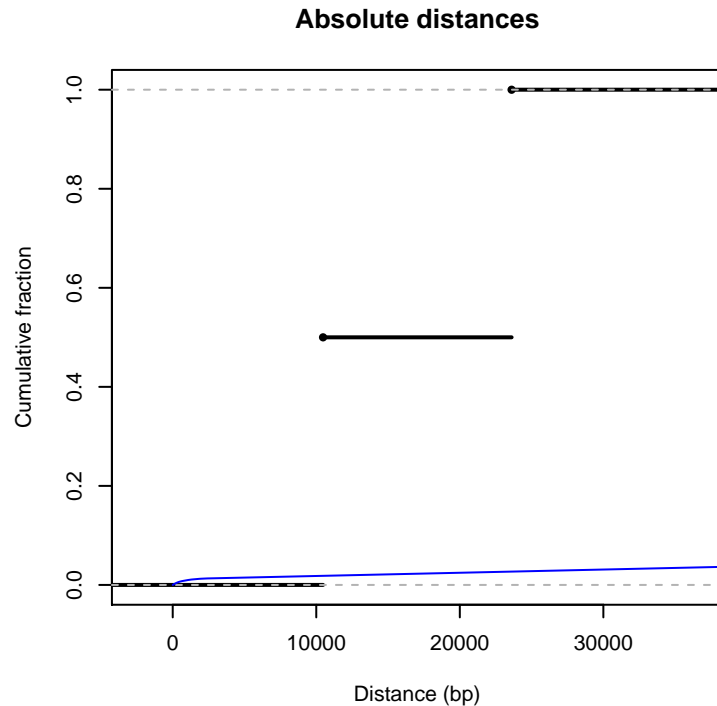
Query population : 31  
Reference population : 747  
Relative Ks p-value : 0.502517  
Relative ecdf deviation area : 0.0236024  
Relative ecdf area correlation : -0.0451408  
Relative ecdf deviation area p-value : 0.56  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0284294  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.198074





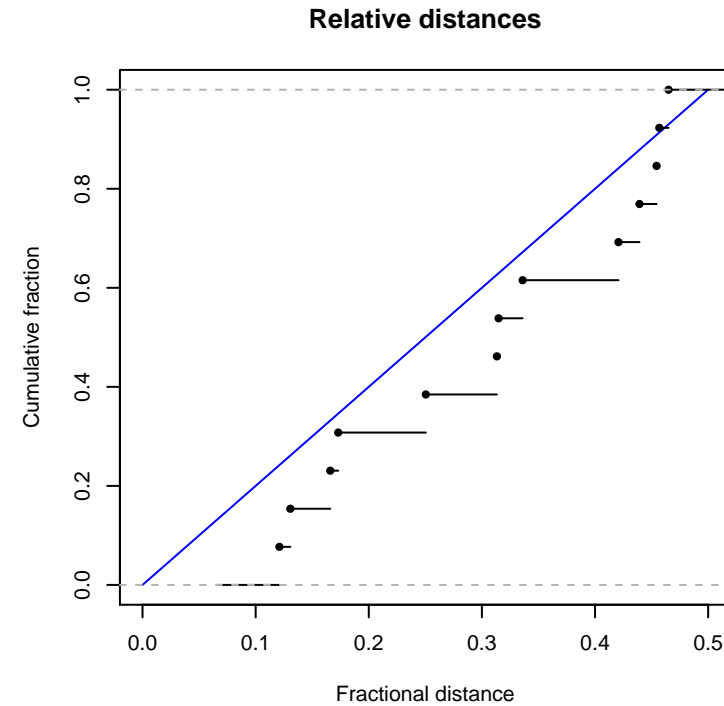
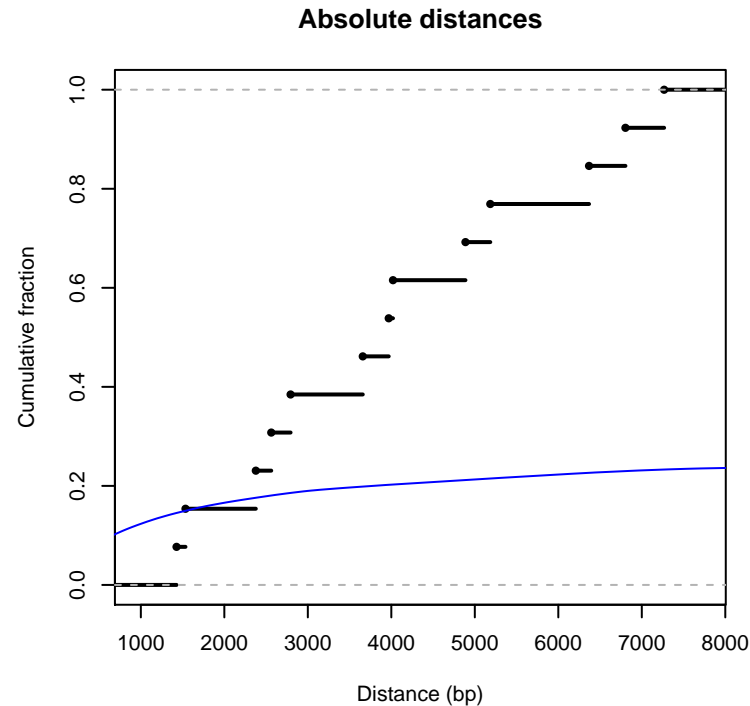
# pcontig\_024

Query population : 2  
Reference population : 34  
Relative Ks p-value : 0.000483311  
Relative ecdf deviation area : 0.244297  
Relative ecdf area correlation : 0.977558  
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 : 0.0206107  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



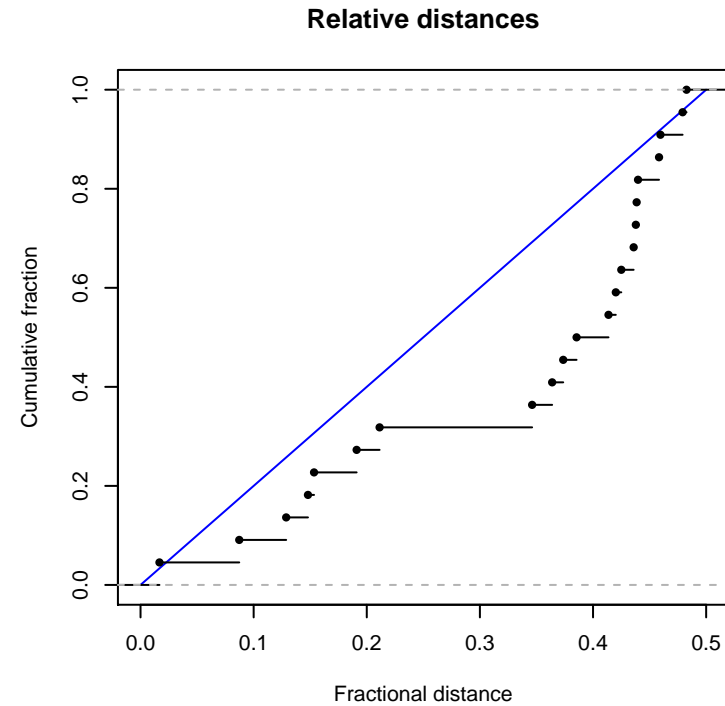
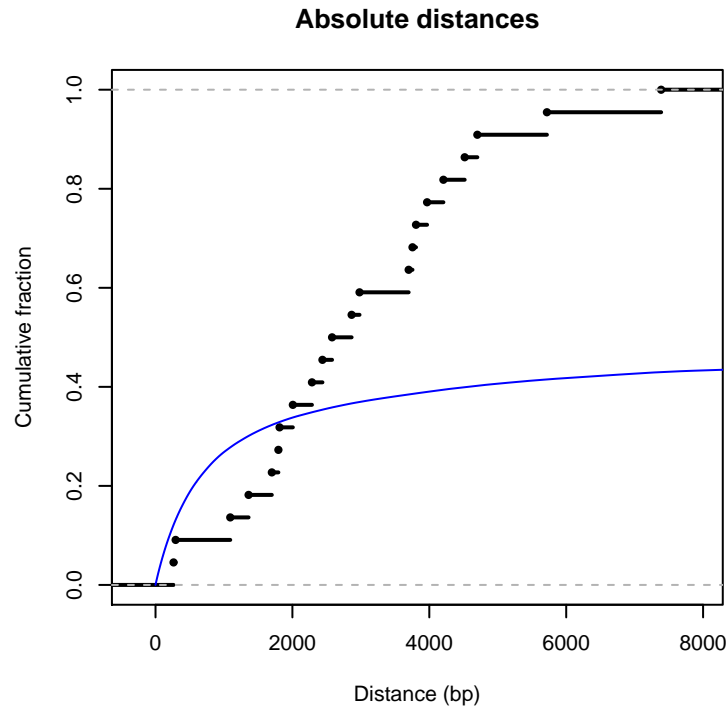
# pcontig\_025

Query population : 13  
Reference population : 424  
Relative Ks p-value : 0.371414  
Relative ecdf deviation area : 0.0636351  
Relative ecdf area correlation : -0.243488  
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 : 0.17  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.181252  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



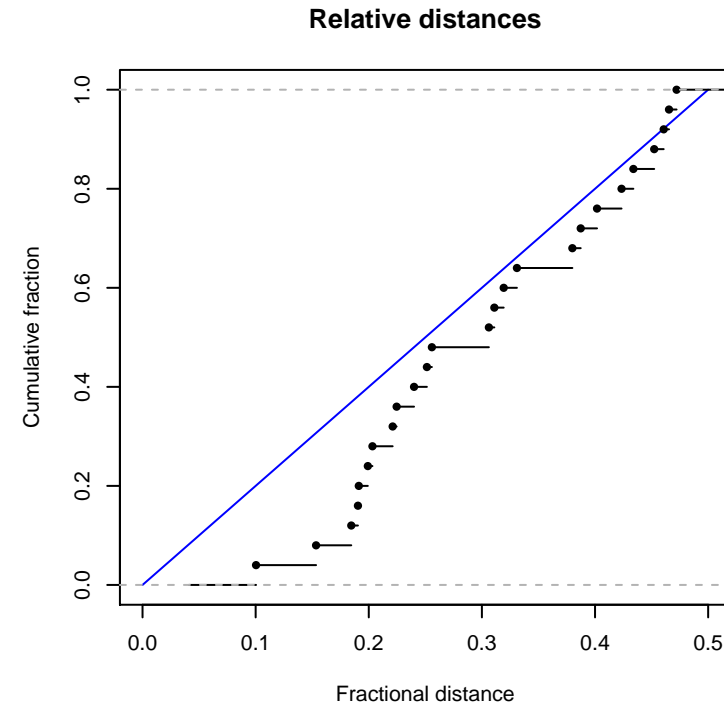
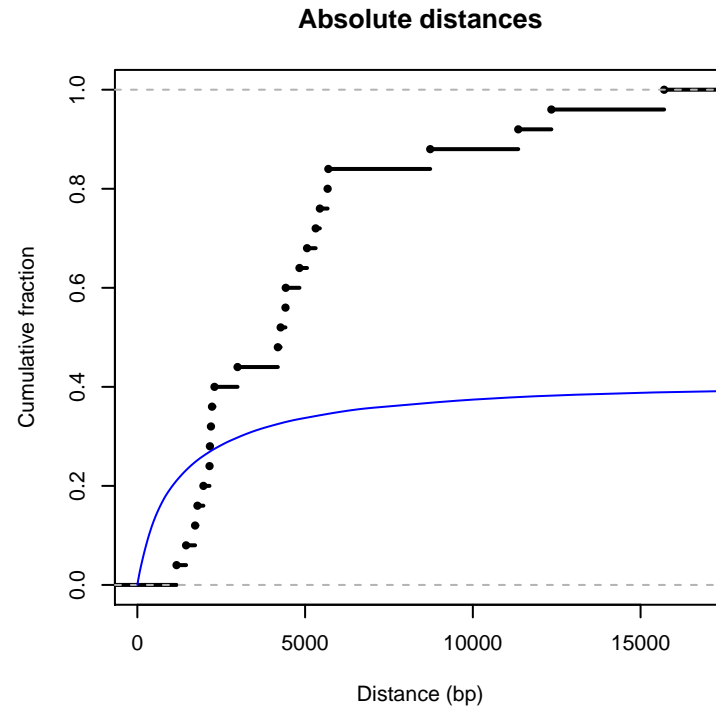
# pcontig\_026

Query population : 22  
Reference population : 1040  
Relative Ks p-value : 0.00283581  
Relative ecdf deviation area : 0.0826331  
Relative ecdf area correlation : -0.326622  
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 : 0.0933381  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.398904



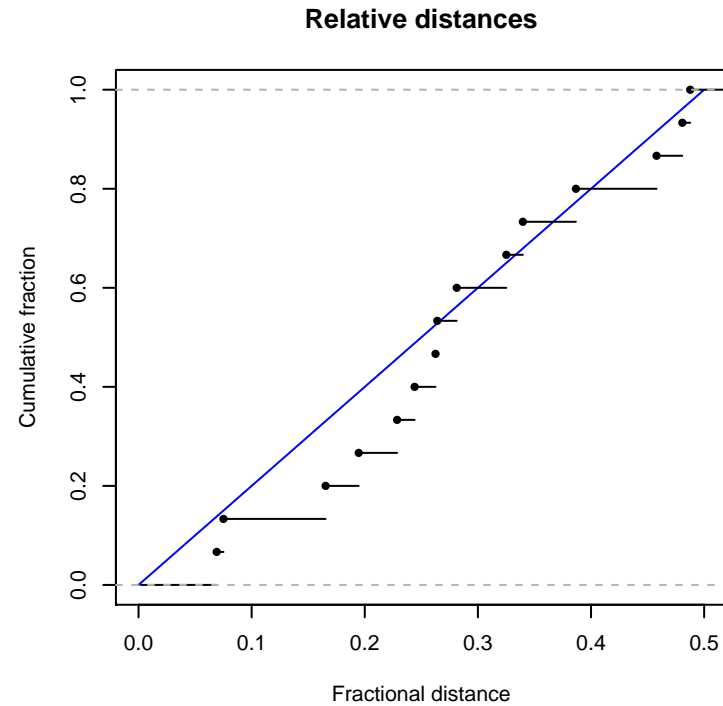
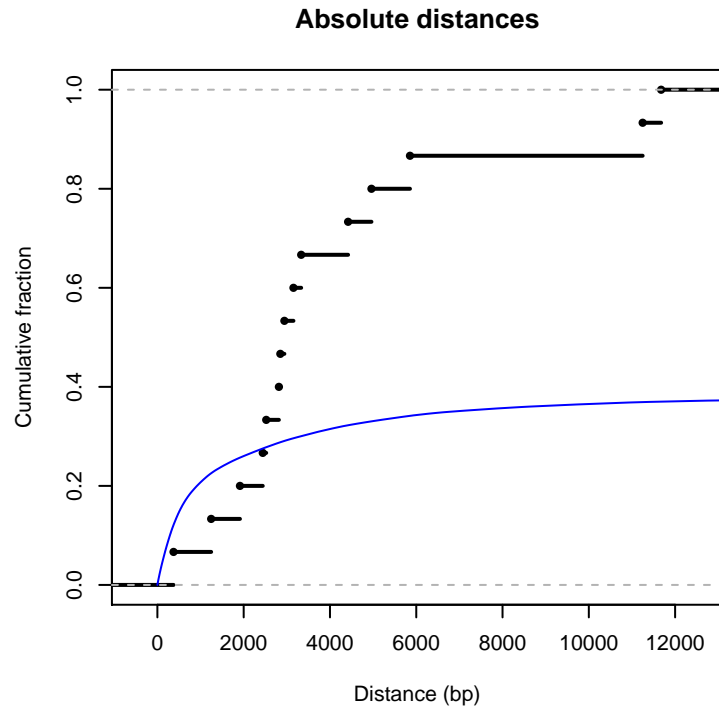
# pcontig\_027

Query population : 25  
Reference population : 667  
Relative Ks p-value : 0.0241574  
Relative ecdf deviation area : 0.054895  
Relative ecdf area correlation : -0.209541  
Relative ecdf deviation area p-value : 0.06000000000000001  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0114607  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



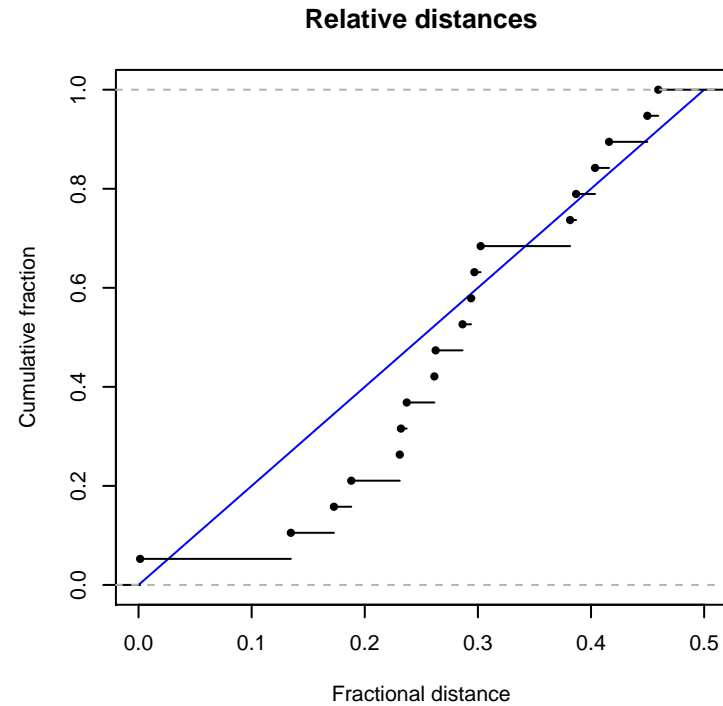
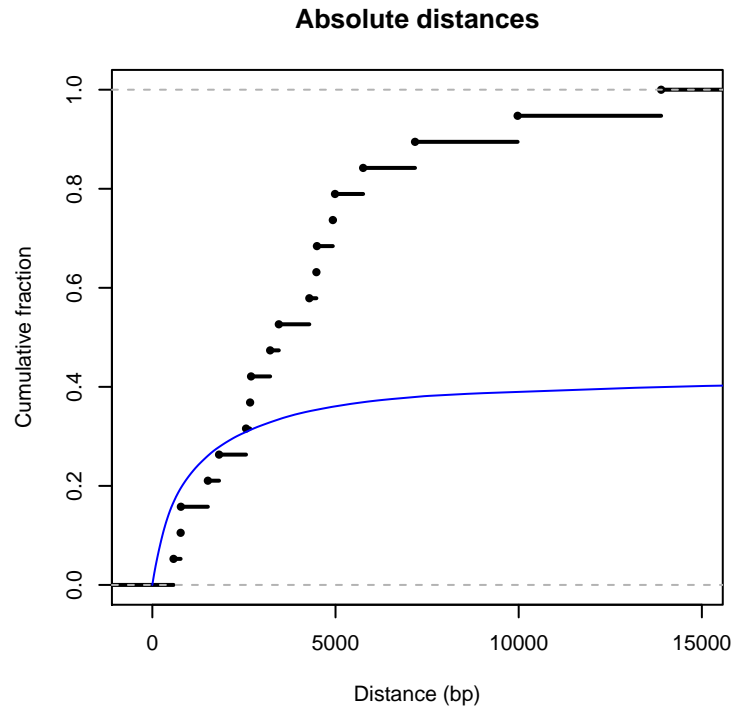
# pcontig\_028

Query population : 15  
Reference population : 761  
Relative Ks p-value : 0.538449  
Relative ecdf deviation area : 0.0359706  
Relative ecdf area correlation : -0.136664  
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 : 0.05  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0629163  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



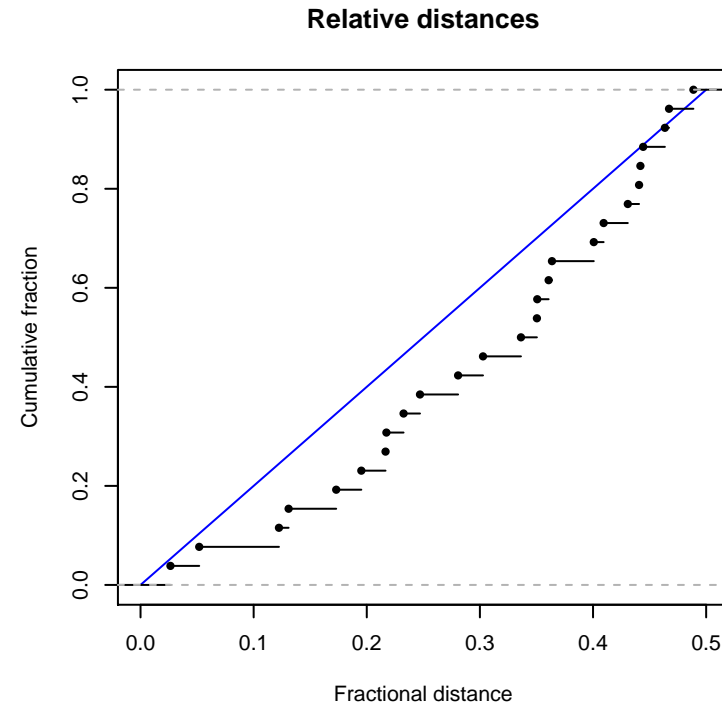
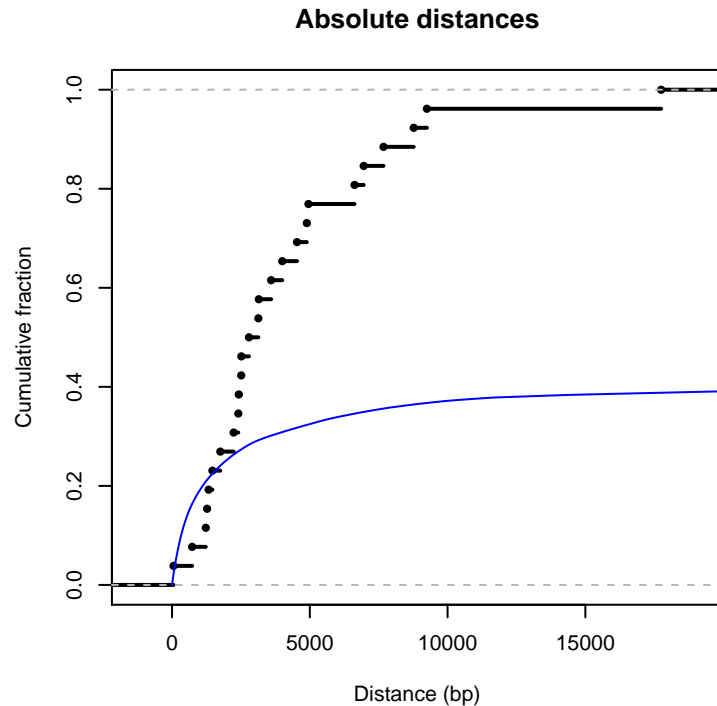
# pcontig\_029

Query population : 19  
Reference population : 791  
Relative Ks p-value : 0.152217  
Relative ecdf deviation area : 0.0460617  
Relative ecdf area correlation : -0.136358  
Relative ecdf deviation area p-value : 0.17  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0142404  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



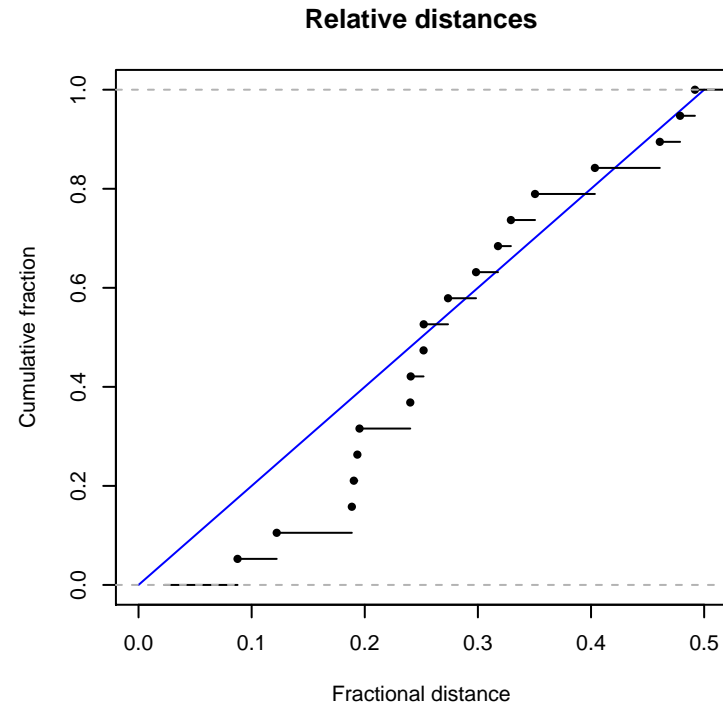
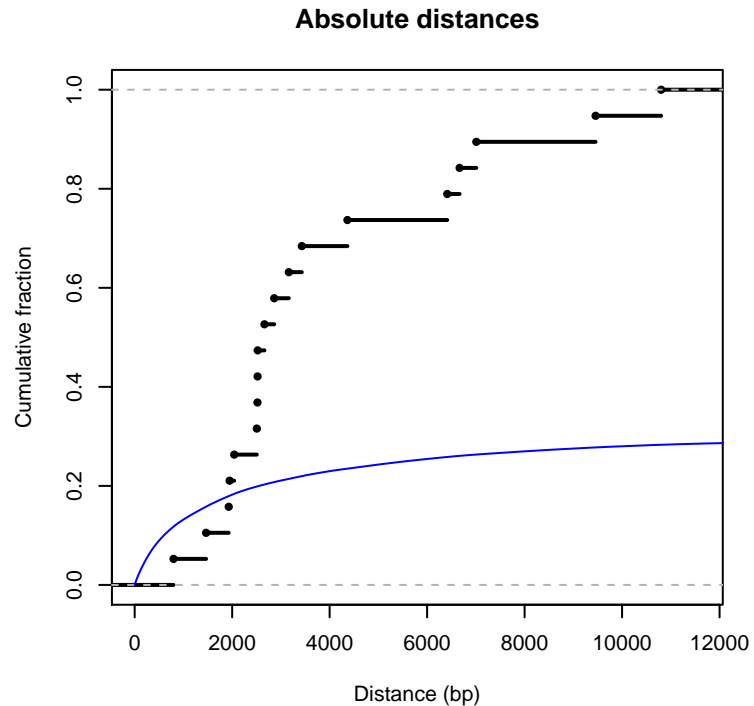
# pcontig\_030

Query population : 26  
Reference population : 715  
Relative Ks p-value : 0.170541  
Relative ecdf deviation area : 0.0559034  
Relative ecdf area correlation : -0.222412  
Relative ecdf deviation area p-value : 0.07  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.44  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.423189  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.941936



# pcontig\_031

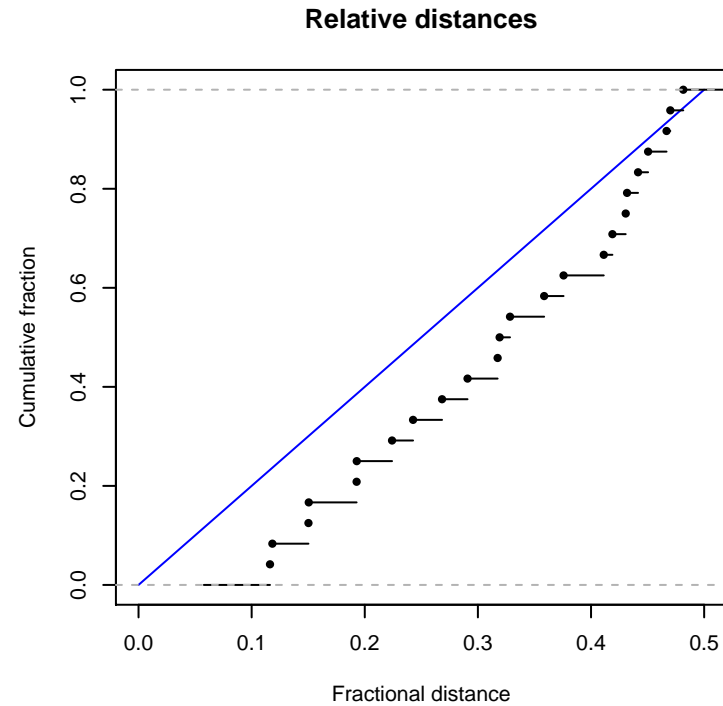
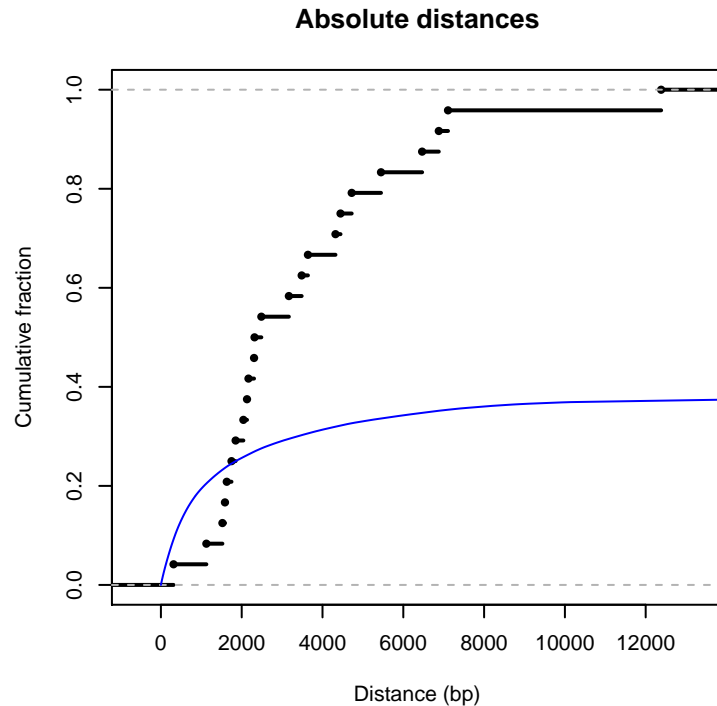
Query population : 19  
Reference population : 482  
Relative Ks p-value : 0.0989251  
Relative ecdf deviation area : 0.0425034  
Relative ecdf area correlation : -0.129775  
Relative ecdf deviation area p-value : 0.24  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.04  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.100684  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0





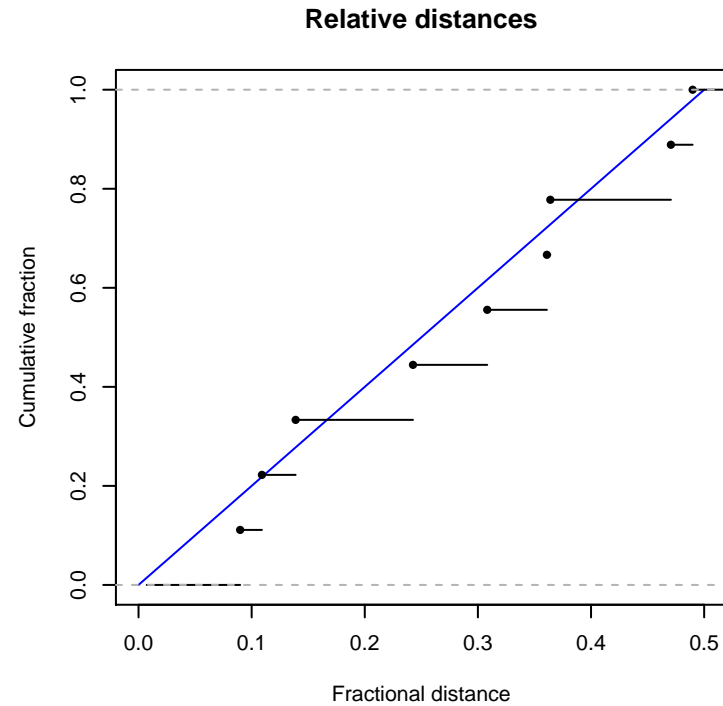
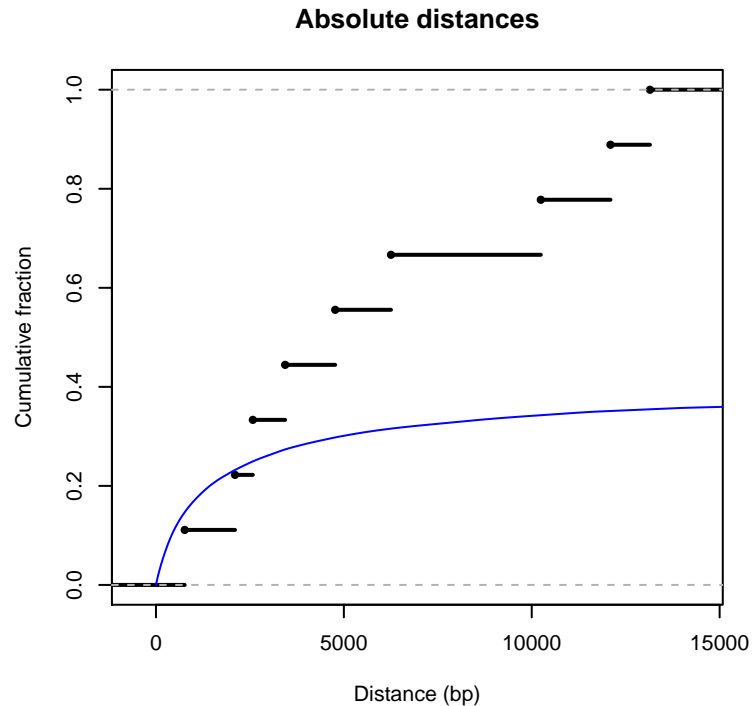
# pcontig\_033

Query population : 24  
Reference population : 637  
Relative Ks p-value : 0.126913  
Relative ecdf deviation area : 0.0691738  
Relative ecdf area correlation : -0.274881  
Relative ecdf deviation area p-value : 0.02  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0202892  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



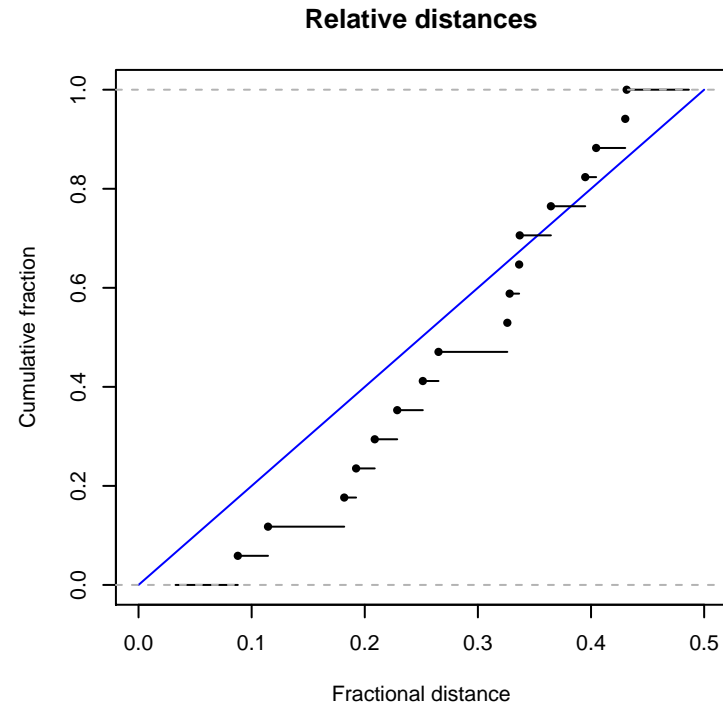
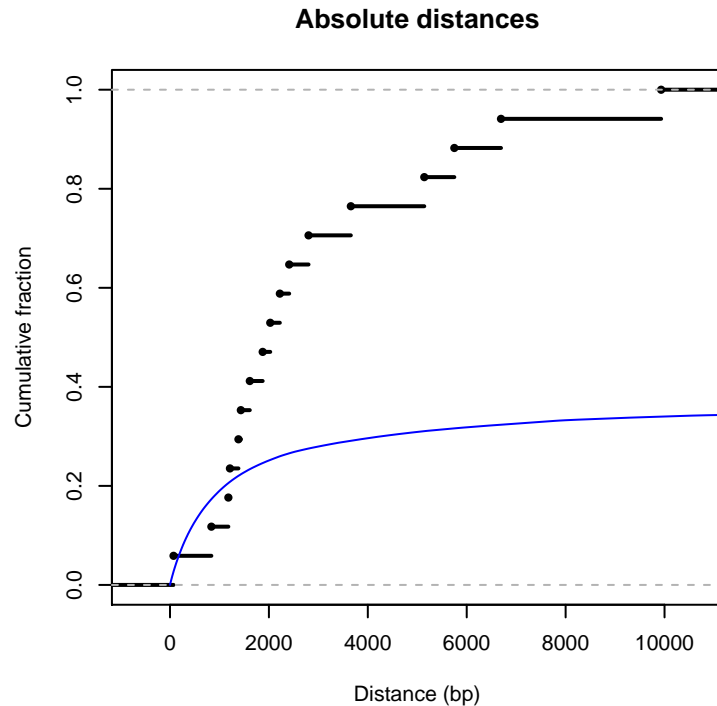
# pcontig\_034

Query population : 9  
Reference population : 579  
Relative Ks p-value : 0.886479  
Relative ecdf deviation area : 0.0387394  
Relative ecdf area correlation : -0.144058  
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 : 0.2  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.381465  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.768839



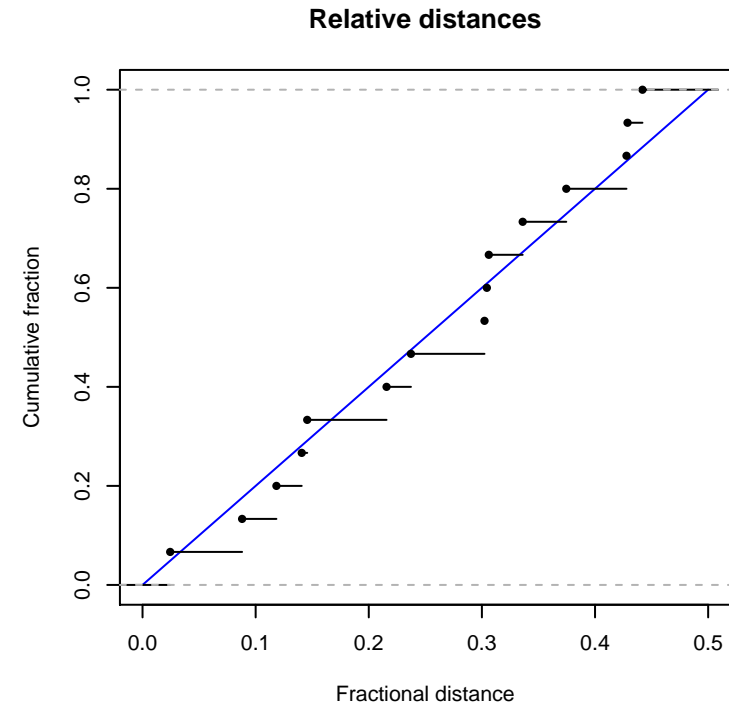
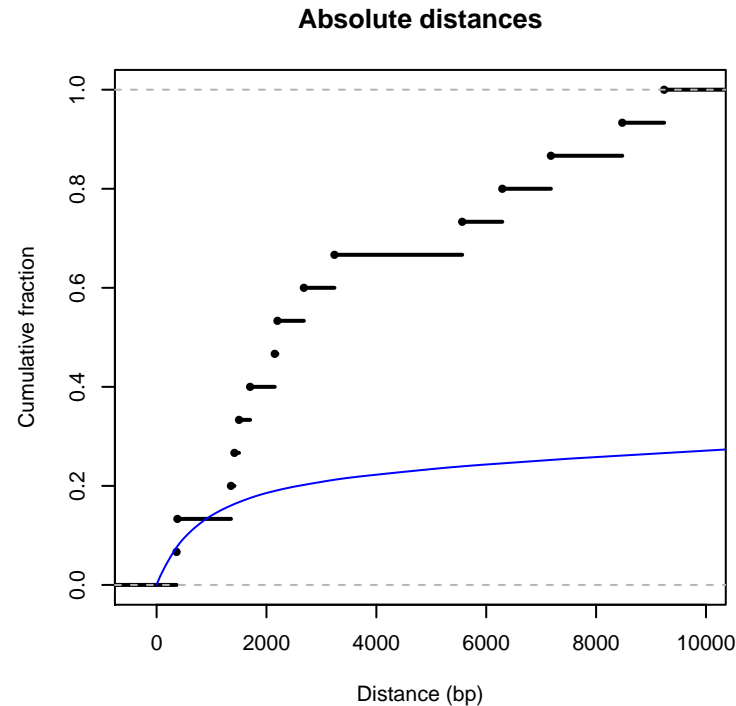
# pcontig\_035

Query population : 17  
Reference population : 688  
Relative Ks p-value : 0.215961  
Relative ecdf deviation area : 0.0508746  
Relative ecdf area correlation : -0.149088  
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 : 0.49  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.292174  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.08932



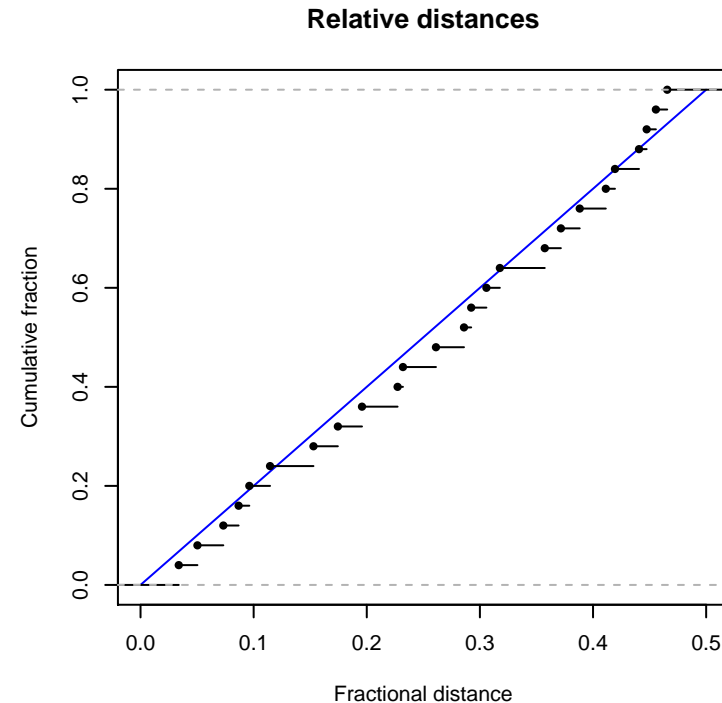
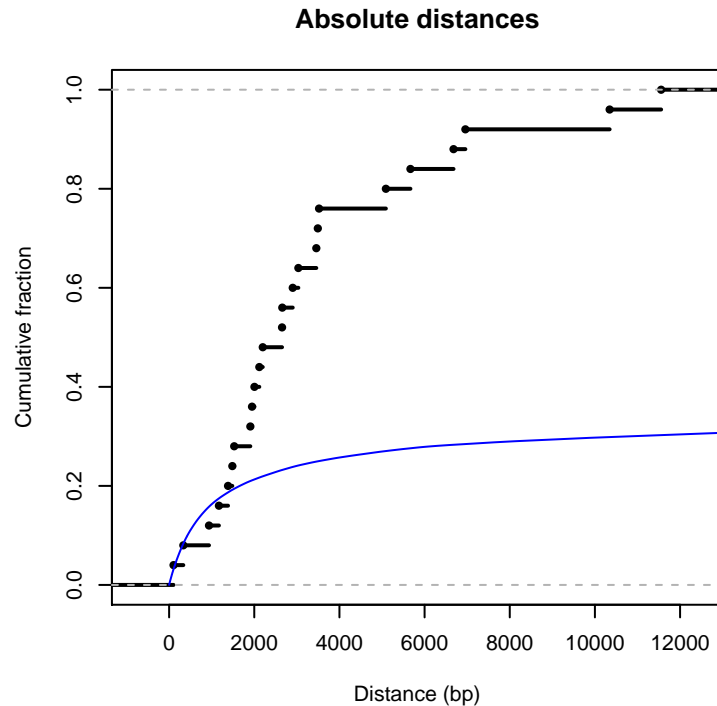
# pcontig\_036

Query population : 15  
Reference population : 488  
Relative Ks p-value : 0.901127  
Relative ecdf deviation area : 0.0234581  
Relative ecdf area correlation : -0.0378975  
Relative ecdf deviation area p-value : 0.94  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.23  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.335696  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.978419



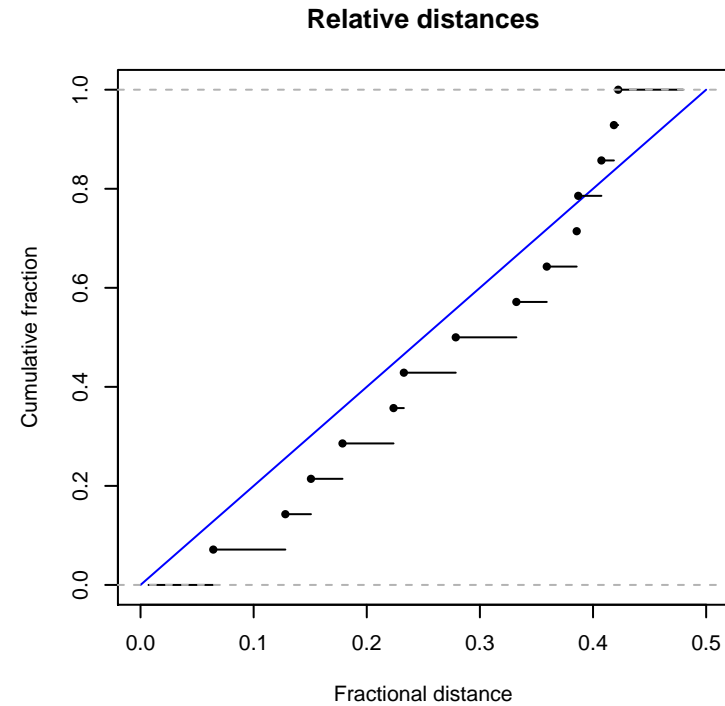
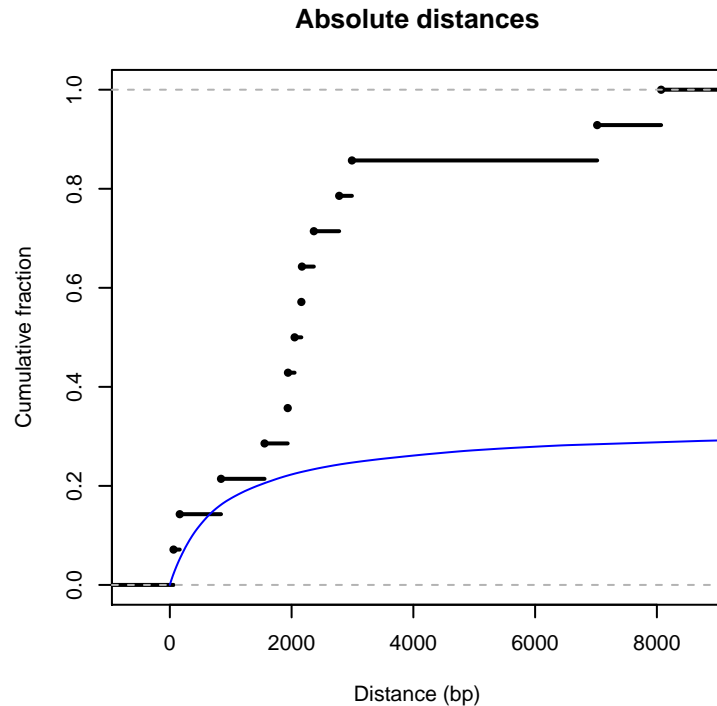
# pcontig\_037

Query population : 25  
Reference population : 562  
Relative Ks p-value : 0.963447  
Relative ecdf deviation area : 0.0193747  
Relative ecdf area correlation : -0.0651034  
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 : 0.11  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.319503  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.587813



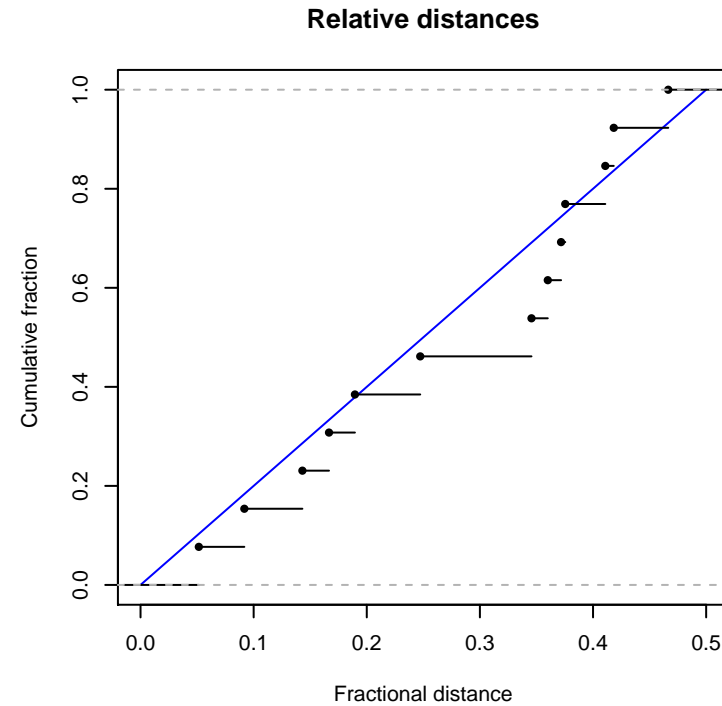
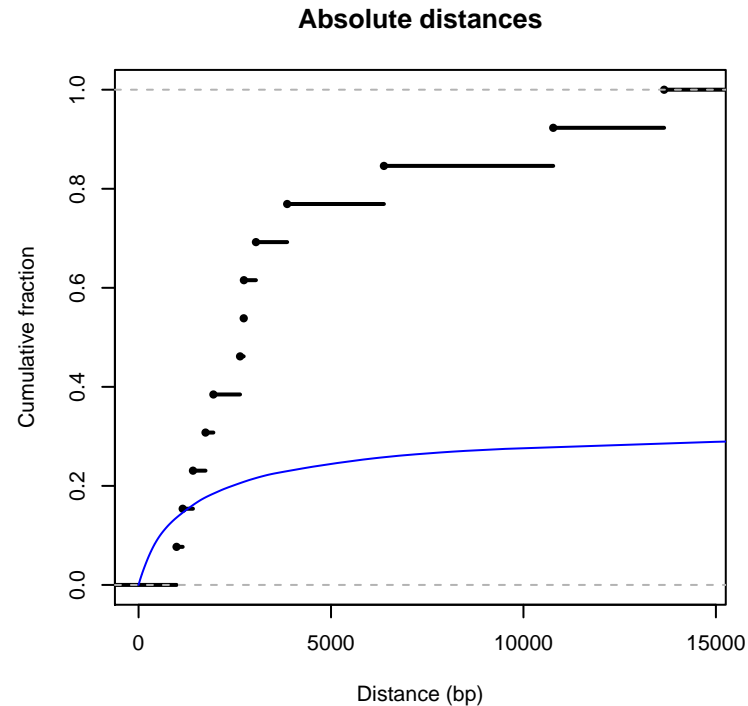
# pcontig\_039

Query population : 14  
Reference population : 658  
Relative Ks p-value : 0.660989  
Relative ecdf deviation area : 0.0471299  
Relative ecdf area correlation : -0.133866  
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 : 0.12  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.190503  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.29408



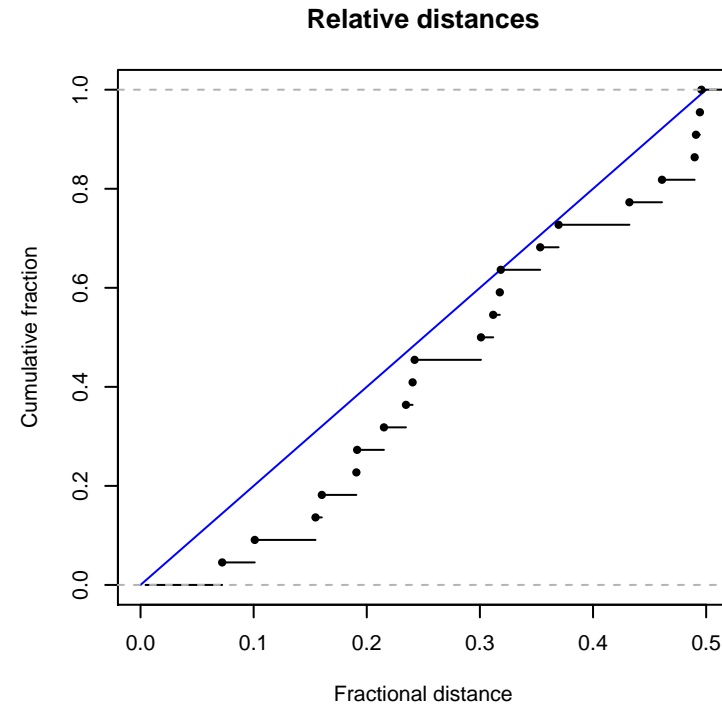
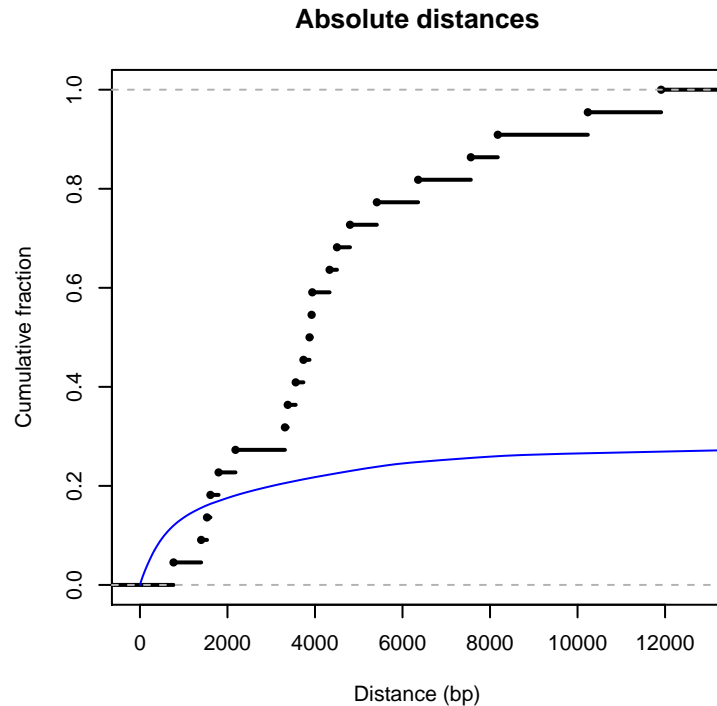
# pcontig\_040

Query population : 13  
Reference population : 455  
Relative Ks p-value : 0.434601  
Relative ecdf deviation area : 0.0366549  
Relative ecdf area correlation : -0.119464  
Relative ecdf deviation area p-value : 0.56  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.43  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.191645  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.30377



# pcontig\_041

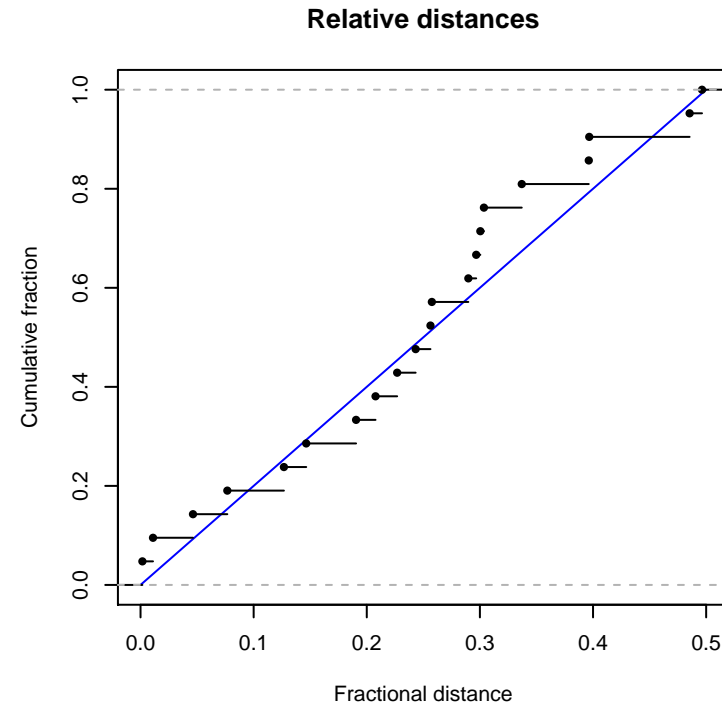
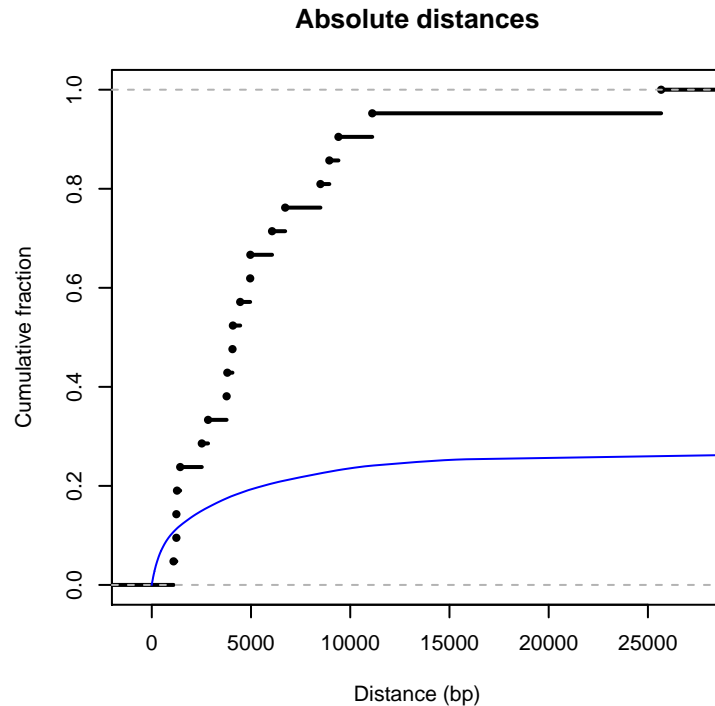
Query population : 22  
Reference population : 476  
Relative Ks p-value : 0.211037  
Relative ecdf deviation area : 0.0517461  
Relative ecdf area correlation : -0.207067  
Relative ecdf deviation area p-value : 0.1  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.15  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.242003  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.380069





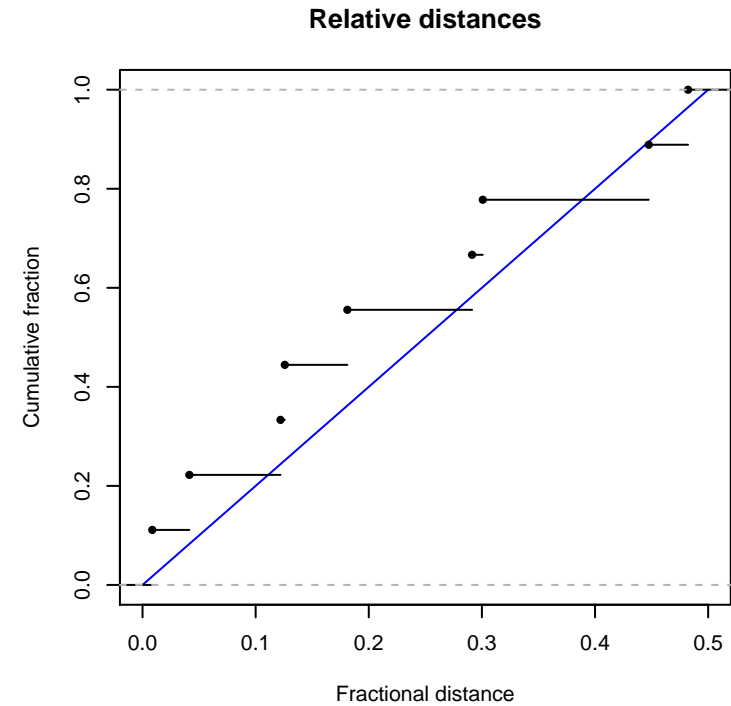
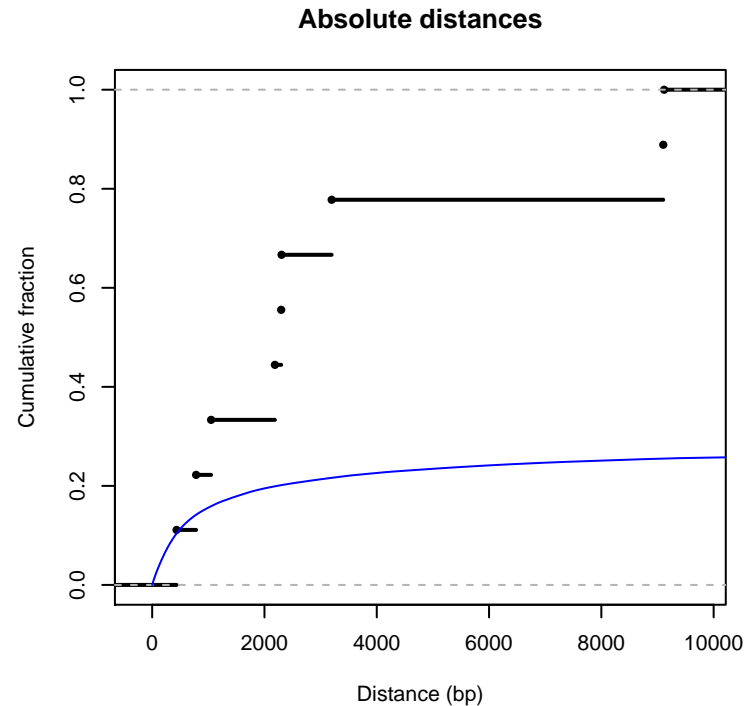
# pcontig\_042

Query population : 21  
Reference population : 408  
Relative Ks p-value : 0.639999  
Relative ecdf deviation area : 0.0244041  
Relative ecdf area correlation : 0.0298502  
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 : 0.06  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.166004  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



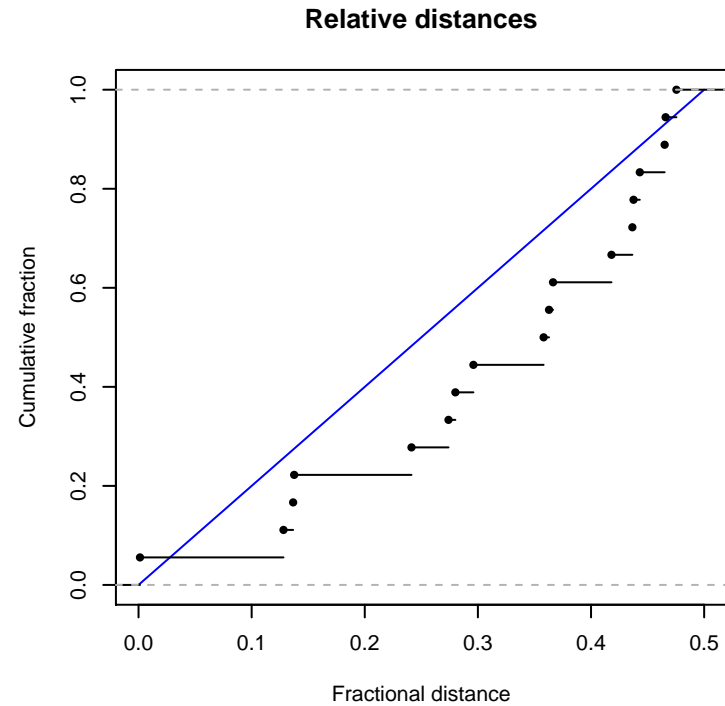
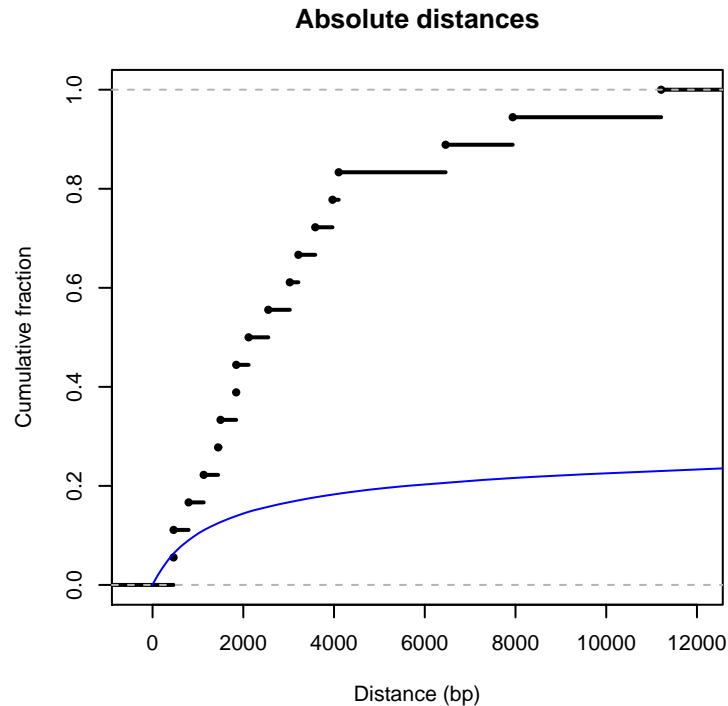
# pcontig\_043

Query population : 9  
Reference population : 632  
Relative Ks p-value : 0.829099  
Relative ecdf deviation area : 0.0379647  
Relative ecdf area correlation : 0.110823  
Relative ecdf deviation area p-value : 0.69  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.25  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.240616  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



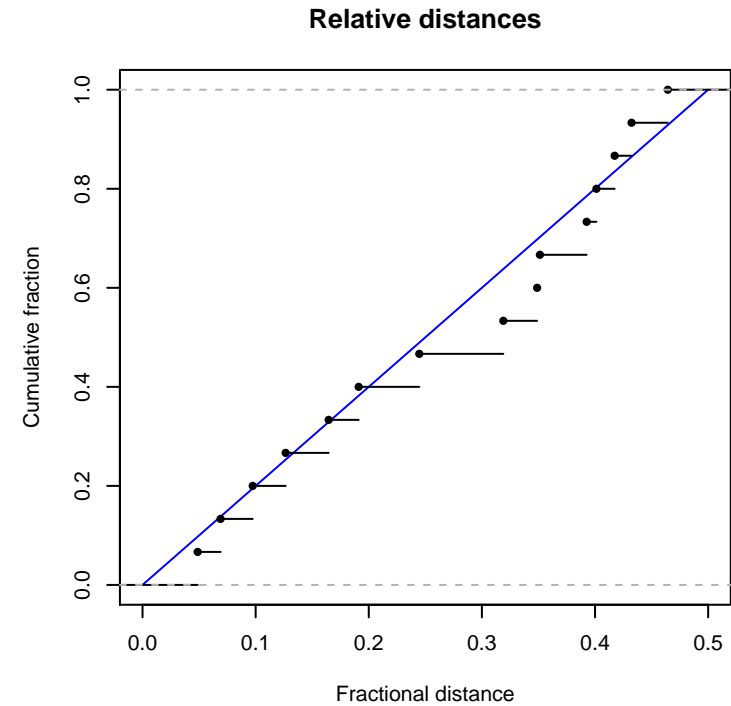
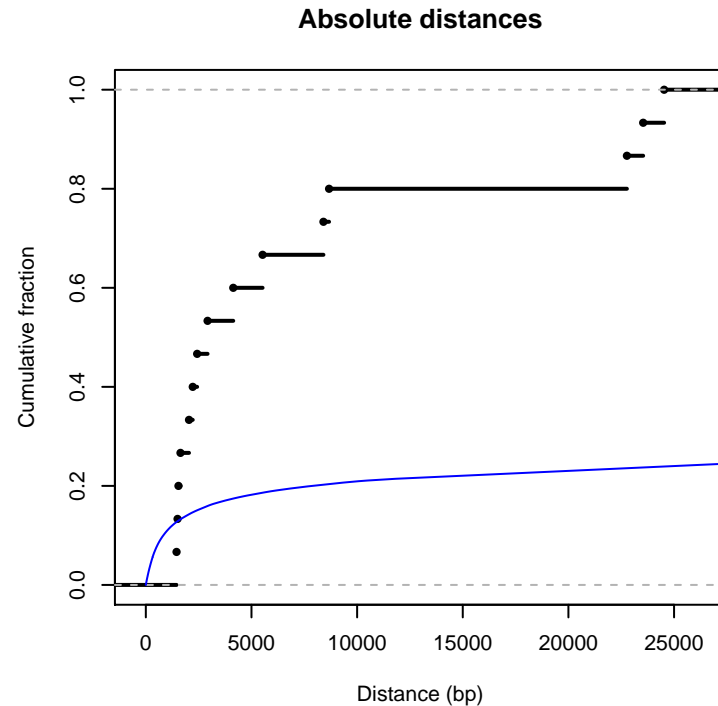
# pcontig\_044

Query population : 18  
Reference population : 309  
Relative Ks p-value : 0.115211  
Relative ecdf deviation area : 0.0706644  
Relative ecdf area correlation : -0.272086  
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 : 0.29  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.243114  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.16493



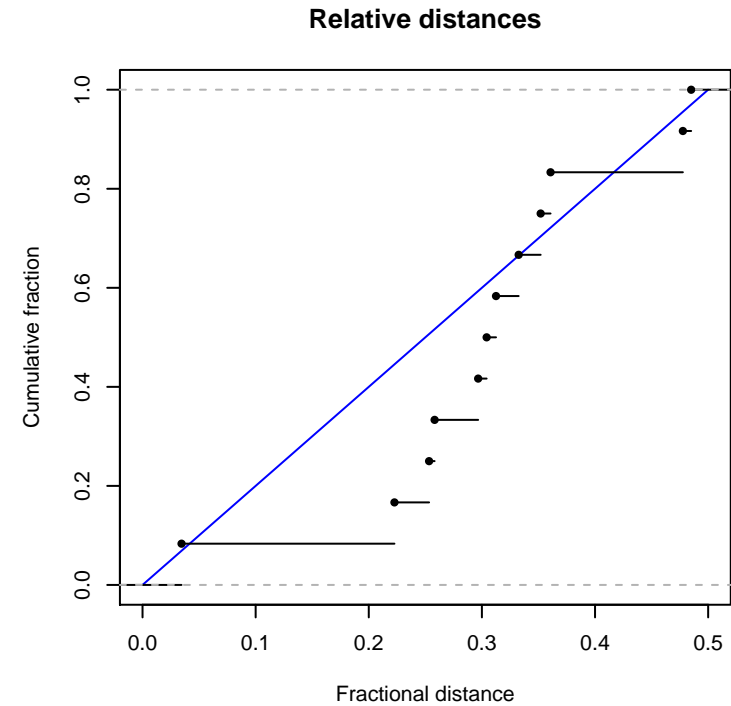
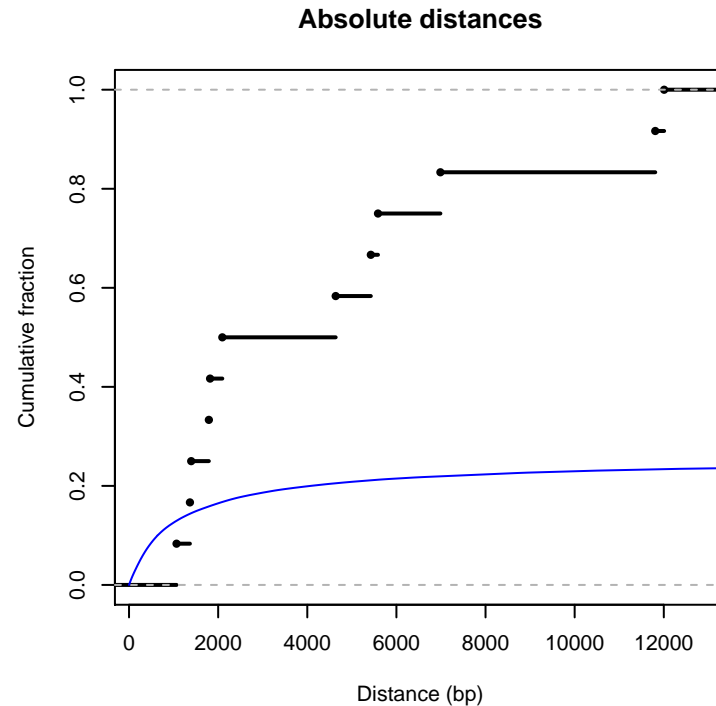
# pcontig\_045

Query population : 15  
Reference population : 381  
Relative Ks p-value : 0.709798  
Relative ecdf deviation area : 0.026238  
Relative ecdf area correlation : -0.0850109  
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 : 0.1  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.213263  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



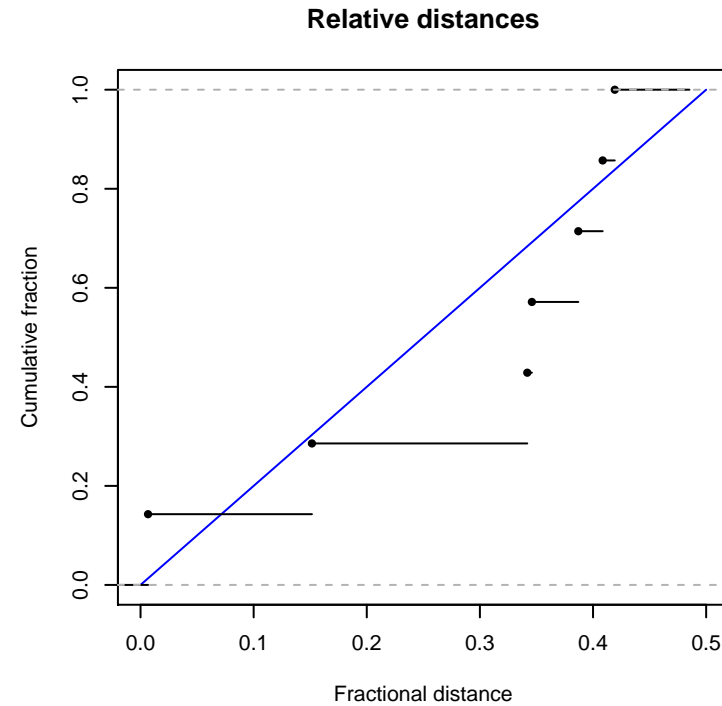
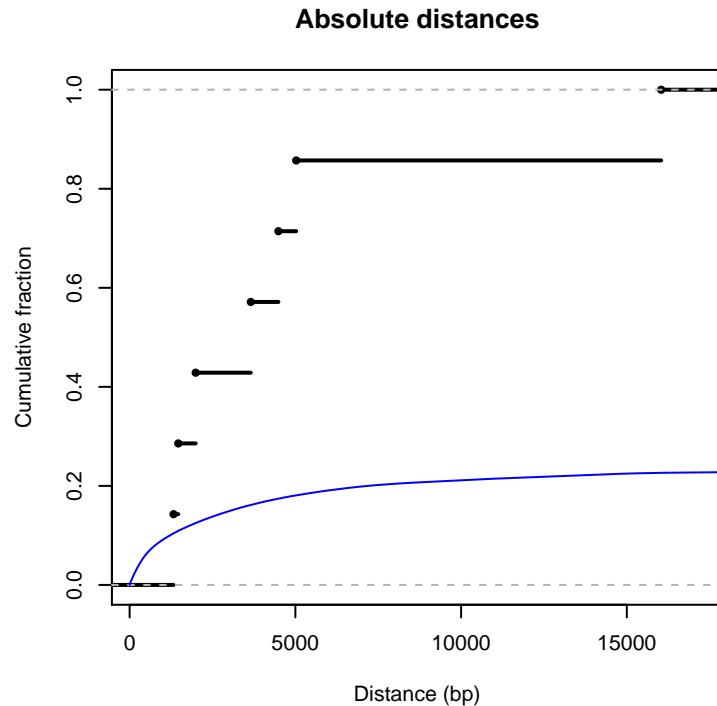
# pcontig\_046

Query population : 12  
Reference population : 404  
Relative Ks p-value : 0.0647206  
Relative ecdf deviation area : 0.0647558  
Relative ecdf area correlation : -0.229938  
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 : 0.25  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.398435  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.740067



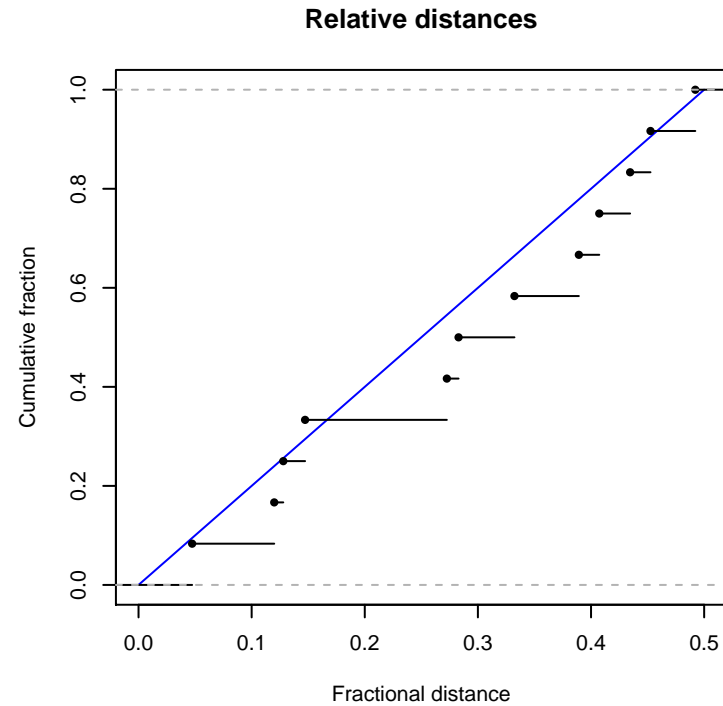
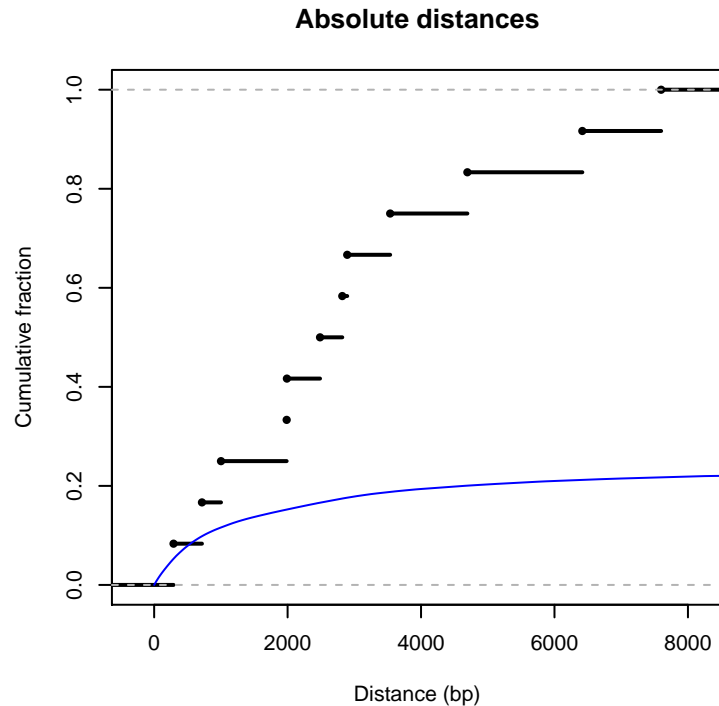
# pcontig\_047

Query population : 7  
Reference population : 313  
Relative Ks p-value : 0.163485  
Relative ecdf deviation area : 0.0663186  
Relative ecdf area correlation : -0.177584  
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 : 0.47  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.413606  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



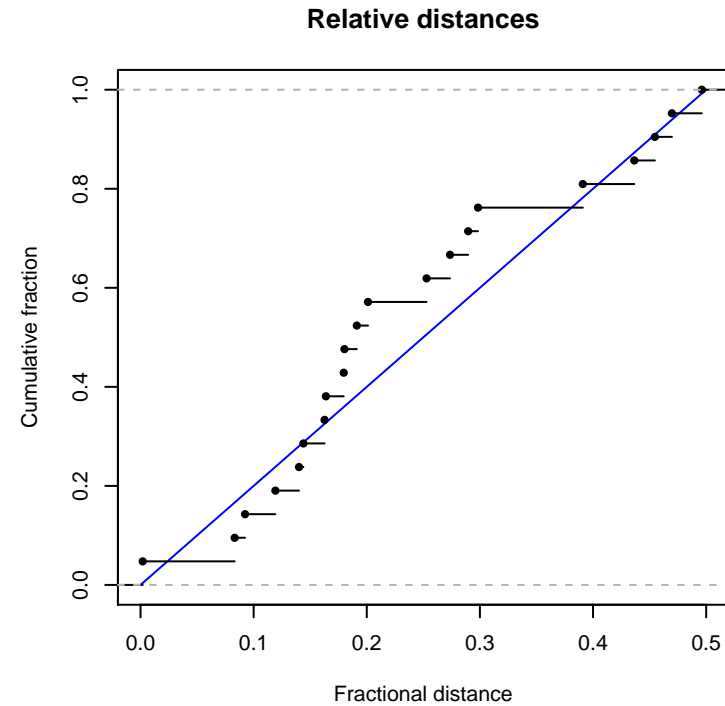
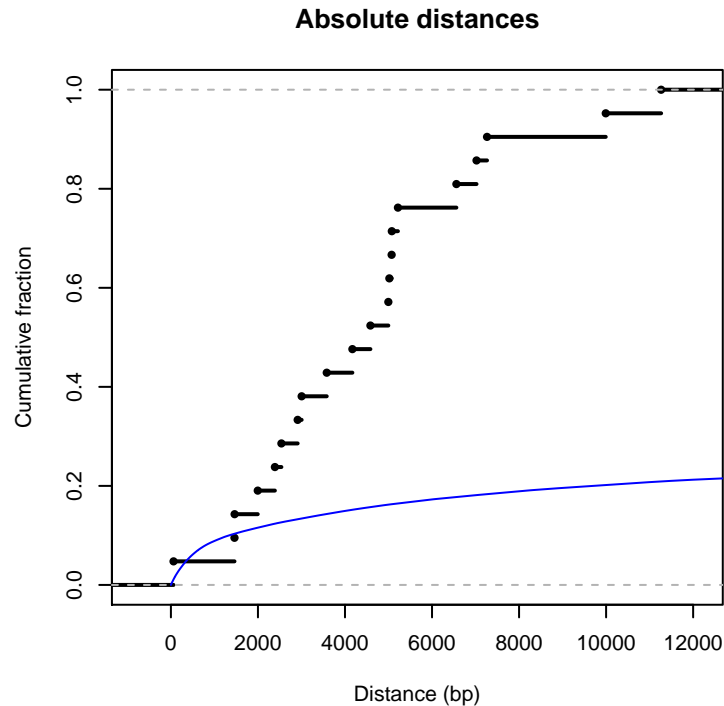
# pcontig\_048

Query population : 12  
Reference population : 382  
Relative Ks p-value : 0.583334  
Relative ecdf deviation area : 0.0433574  
Relative ecdf area correlation : -0.168714  
Relative ecdf deviation area p-value : 0.46  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.12  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.105798  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.70075



# pcontig\_049

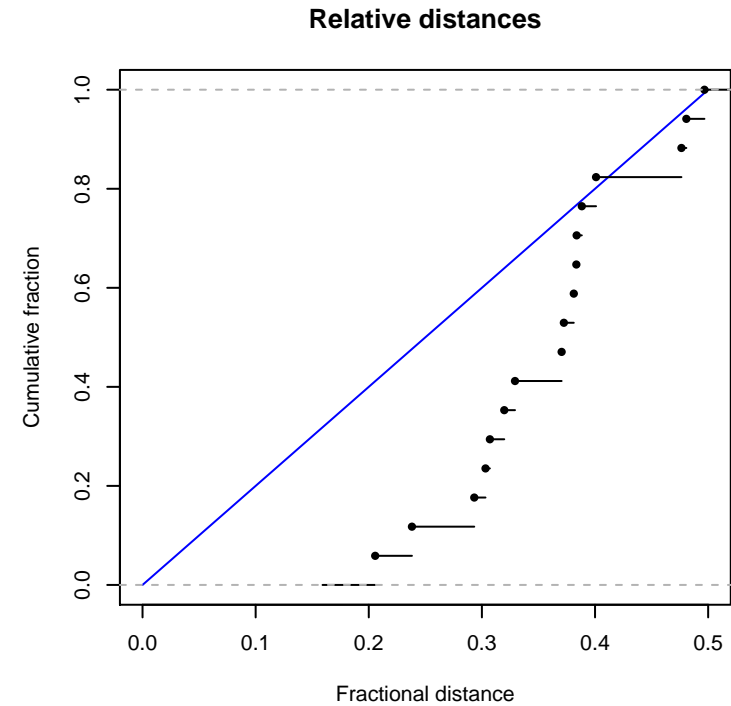
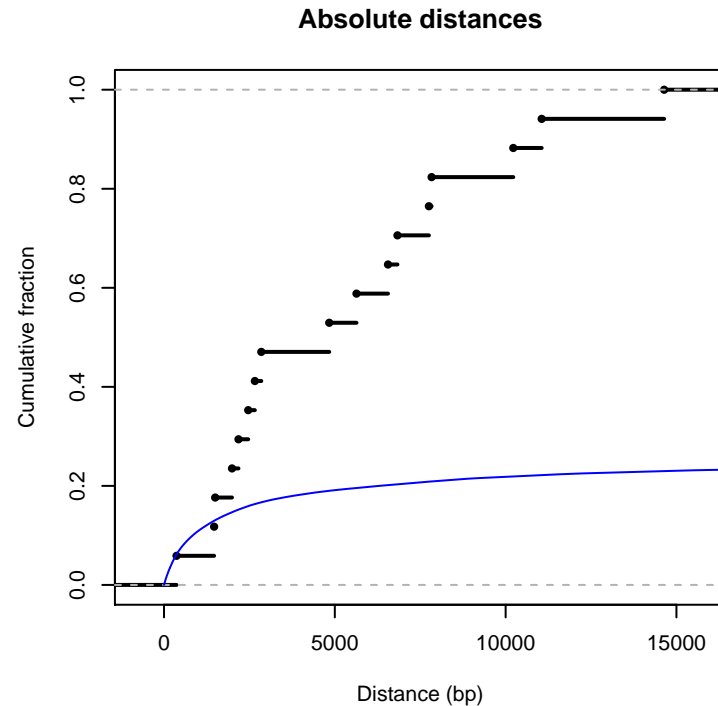
Query population : 21  
Reference population : 336  
Relative Ks p-value : 0.529435  
Relative ecdf deviation area : 0.0321406  
Relative ecdf area correlation : 0.0434262  
Relative ecdf deviation area p-value : 0.41  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.22  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.48957  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.617183





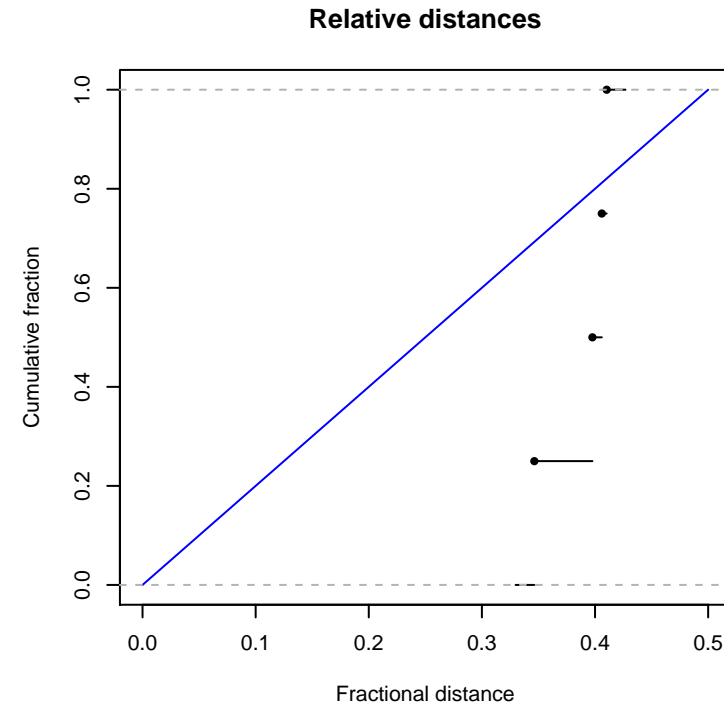
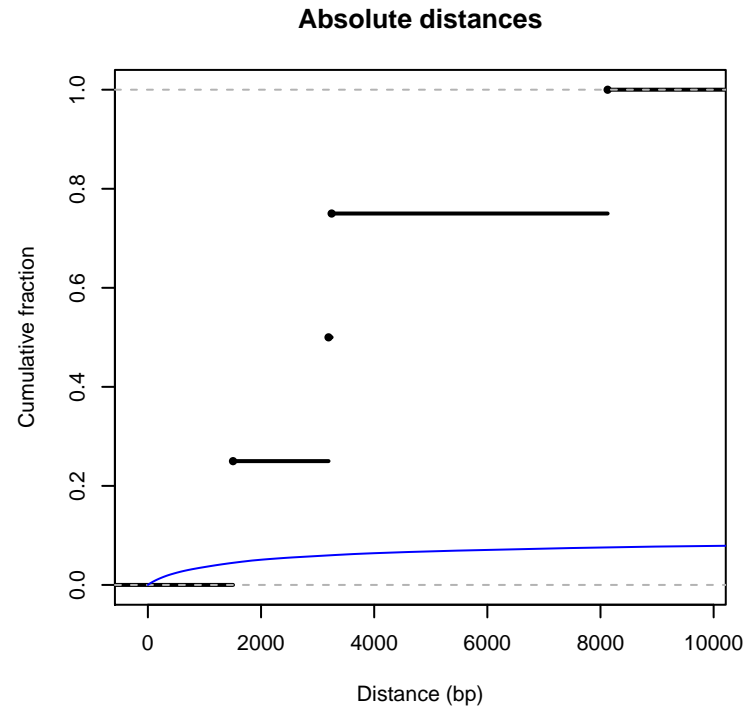
# pcontig\_050

Query population : 17  
Reference population : 417  
Relative Ks p-value : 0.000600592  
Relative ecdf deviation area : 0.11067  
Relative ecdf area correlation : -0.442547  
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 : TRUE  
Projection test p-value : 0.470825  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0.641081



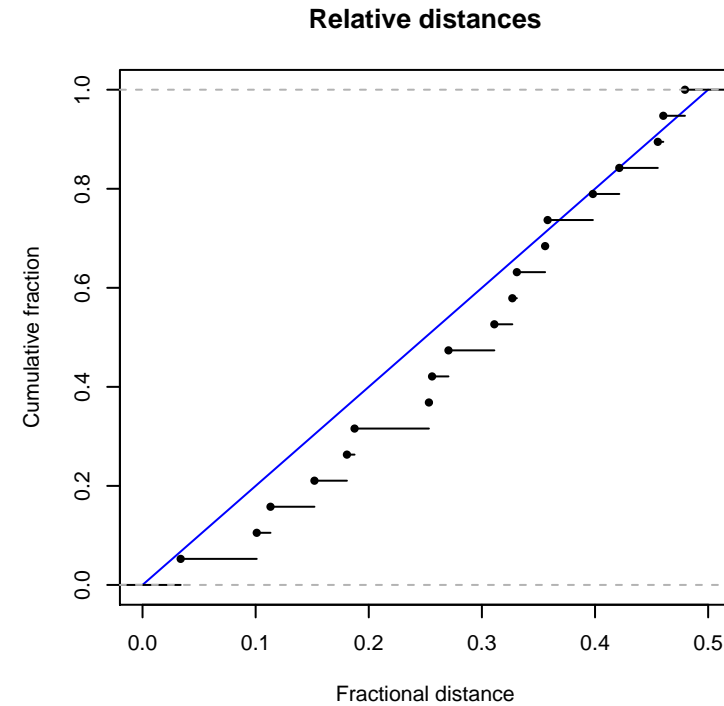
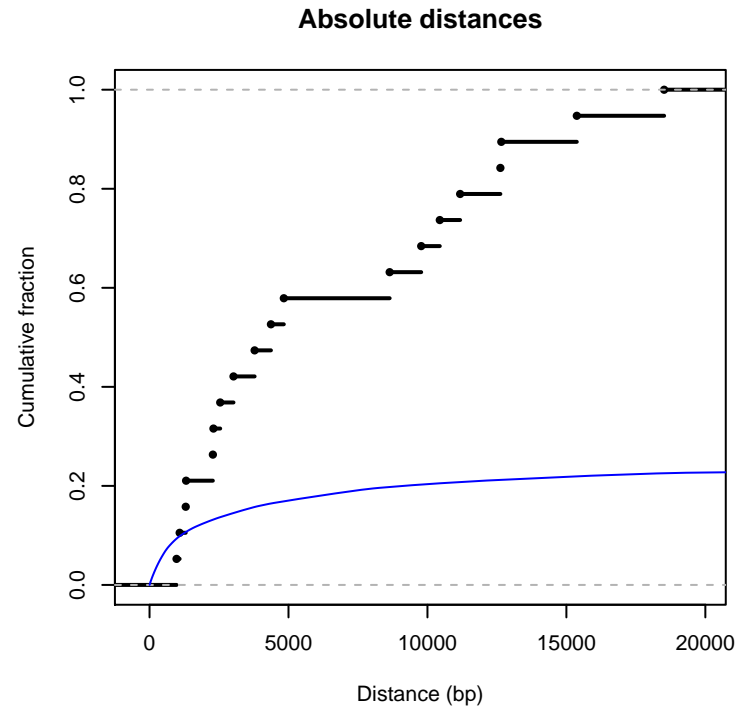
# pcontig\_051

Query population : 4  
Reference population : 134  
Relative Ks p-value : 0.0188672  
Relative ecdf deviation area : 0.1563  
Relative ecdf area correlation : -0.560379  
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 : 0.21  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.141475  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



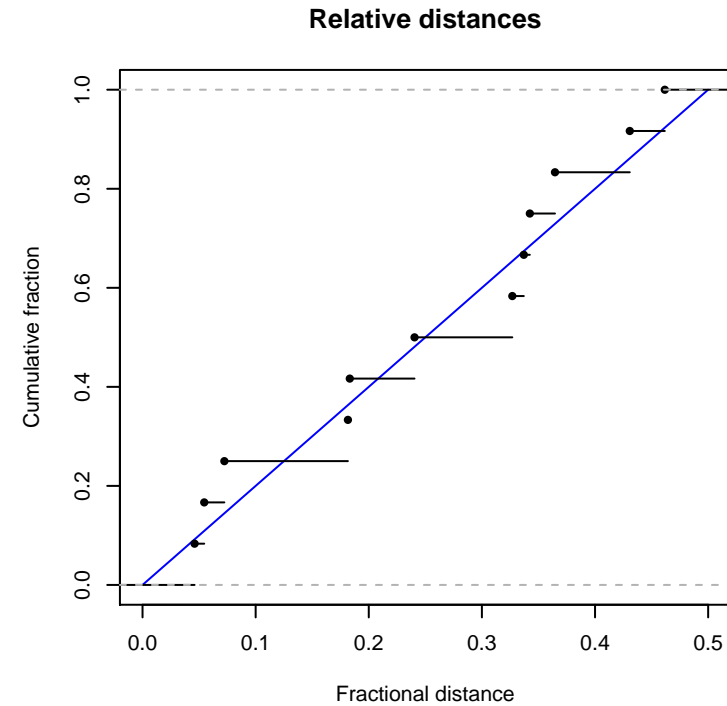
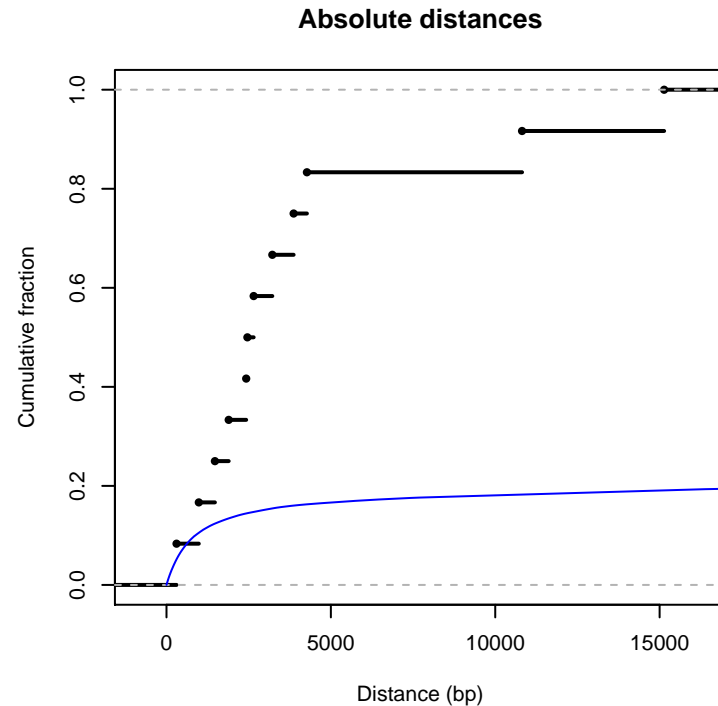
# pcontig\_052

Query population : 19  
Reference population : 303  
Relative Ks p-value : 0.441283  
Relative ecdf deviation area : 0.0382176  
Relative ecdf area correlation : -0.146343  
Relative ecdf deviation area p-value : 0.35  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.25  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.216783  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



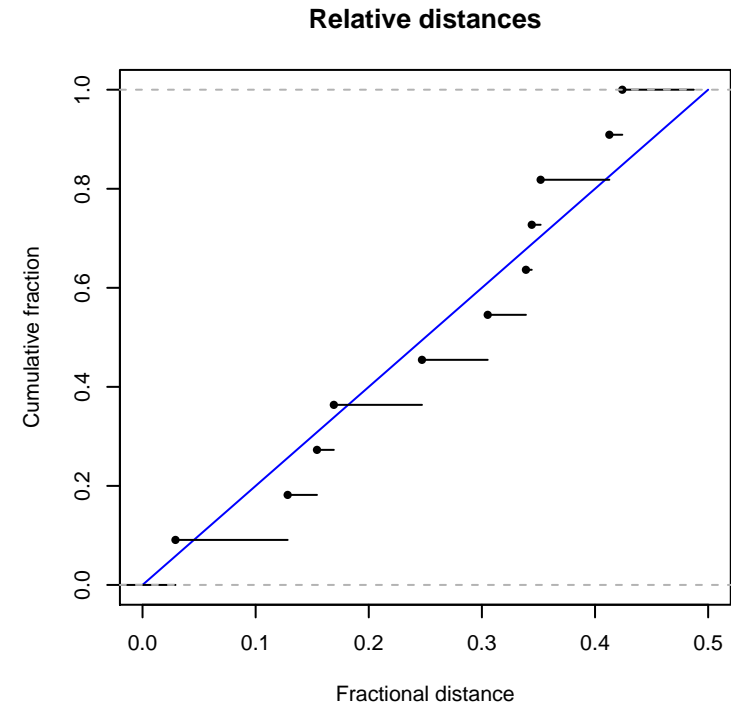
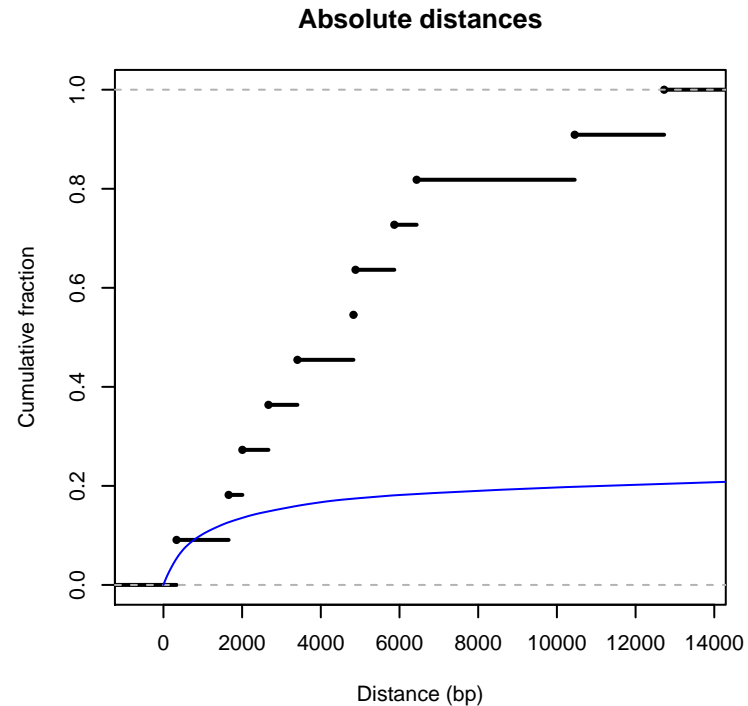
# pcontig\_054

Query population : 12  
Reference population : 378  
Relative Ks p-value : 0.89868  
Relative ecdf deviation area : 0.0239805  
Relative ecdf area correlation : -0.0137982  
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 : 0.22  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.329044  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



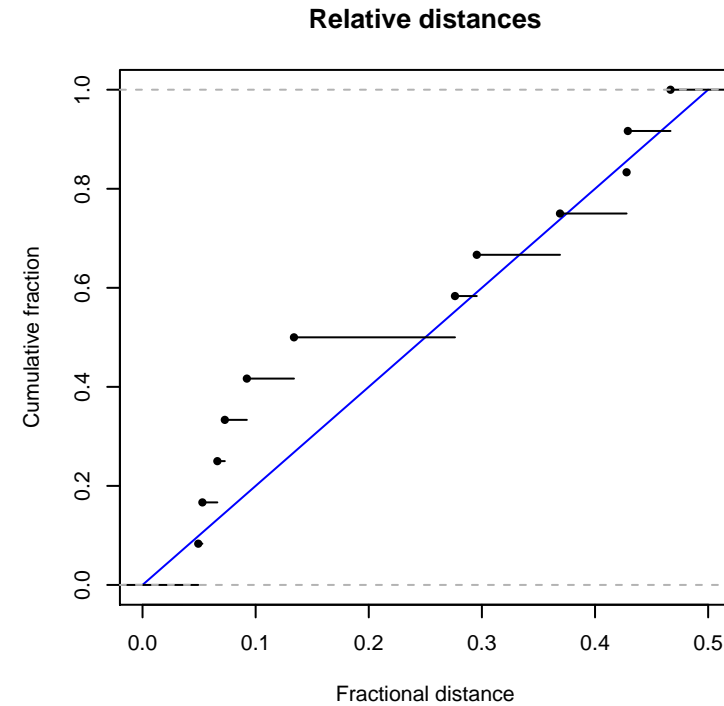
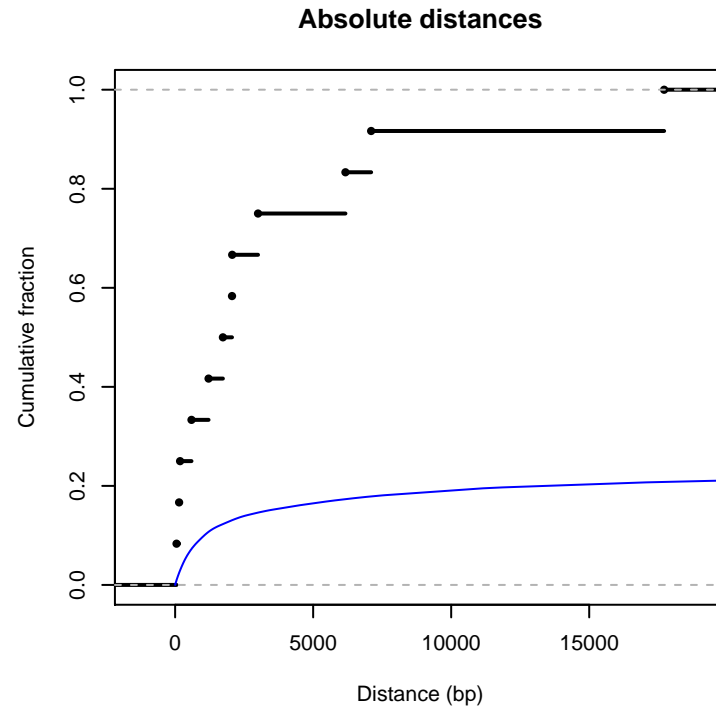
# pcontig\_055

Query population : 11  
Reference population : 375  
Relative Ks p-value : 0.876158  
Relative ecdf deviation area : 0.0352332  
Relative ecdf area correlation : -0.0562085  
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 : 0.1  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0610553  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.12914



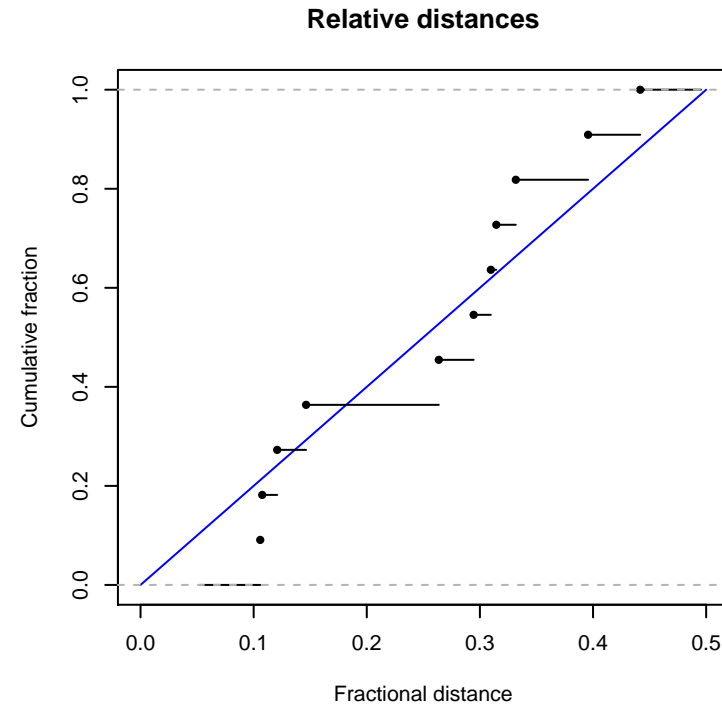
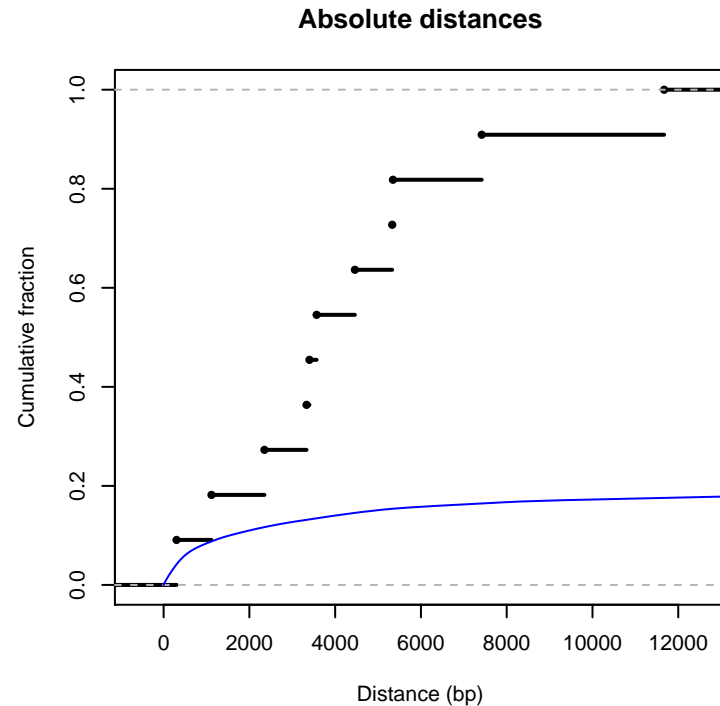
# pcontig\_056

Query population : 12  
Reference population : 329  
Relative Ks p-value : 0.467516  
Relative ecdf deviation area : 0.0363686  
Relative ecdf area correlation : 0.0895008  
Relative ecdf deviation area p-value : 0.67  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0102424  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.27152



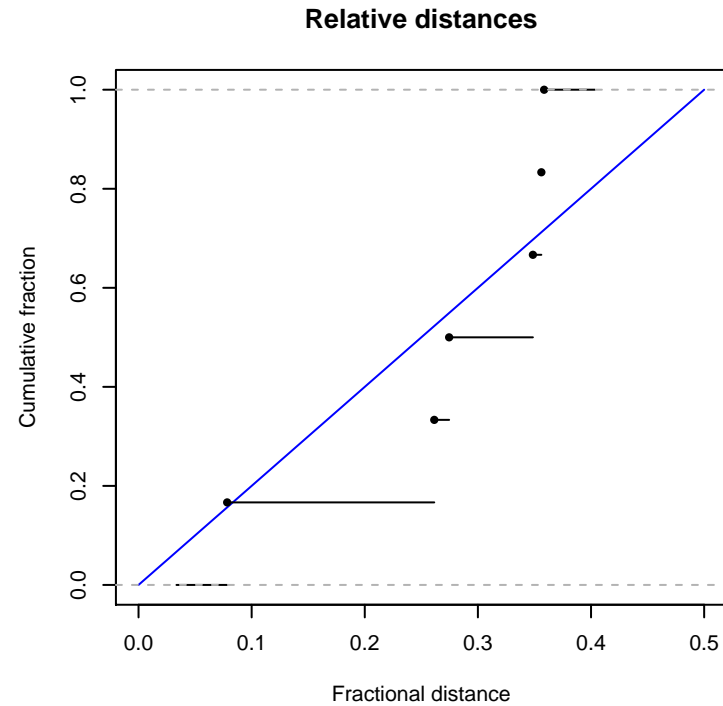
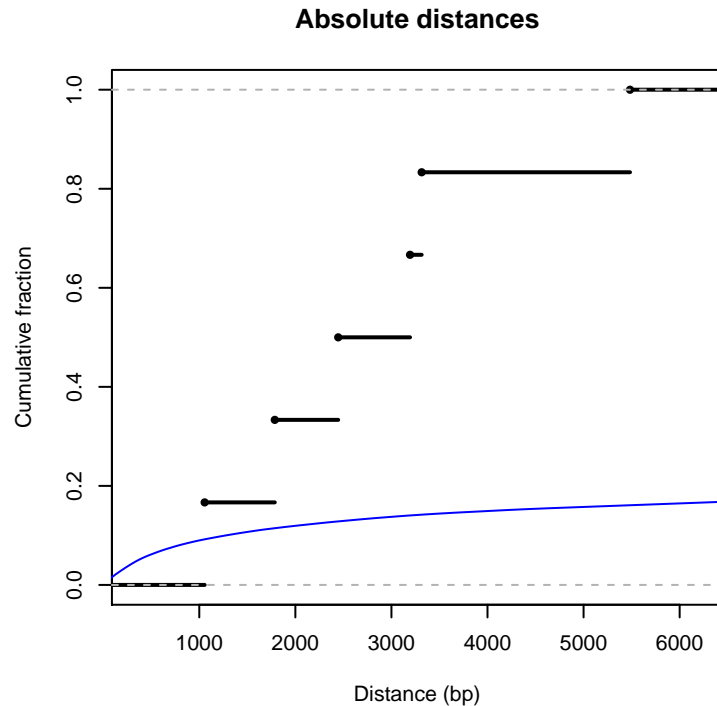
# pcontig\_057

Query population : 11  
Reference population : 305  
Relative Ks p-value : 0.635081  
Relative ecdf deviation area : 0.0382274  
Relative ecdf area correlation : -0.0298026  
Relative ecdf deviation area p-value : 0.69  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.37  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.16275  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.37006



# pcontig\_058

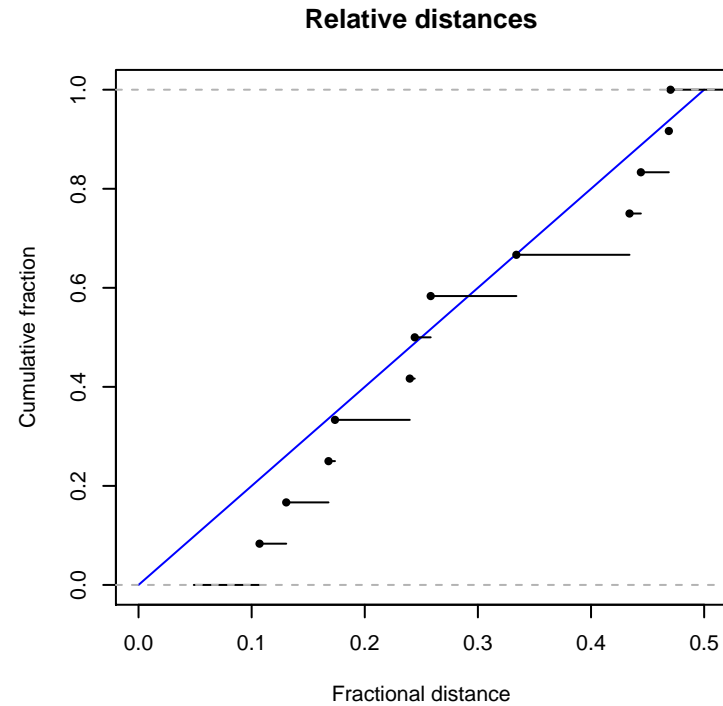
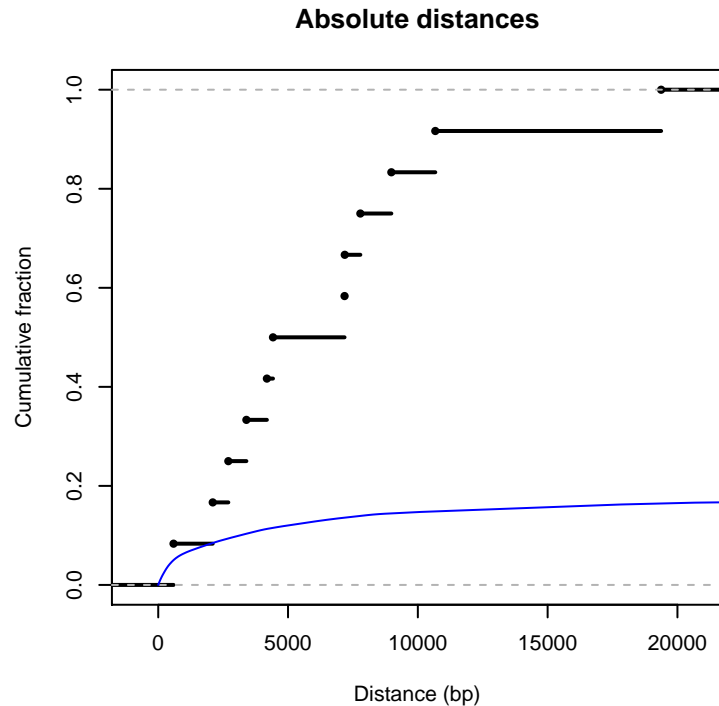
Query population : 6  
Reference population : 308  
Relative Ks p-value : 0.346867  
Relative ecdf deviation area : 0.0707482  
Relative ecdf area correlation : -0.118381  
Relative ecdf deviation area p-value : 0.28  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.18  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0886341  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.92822





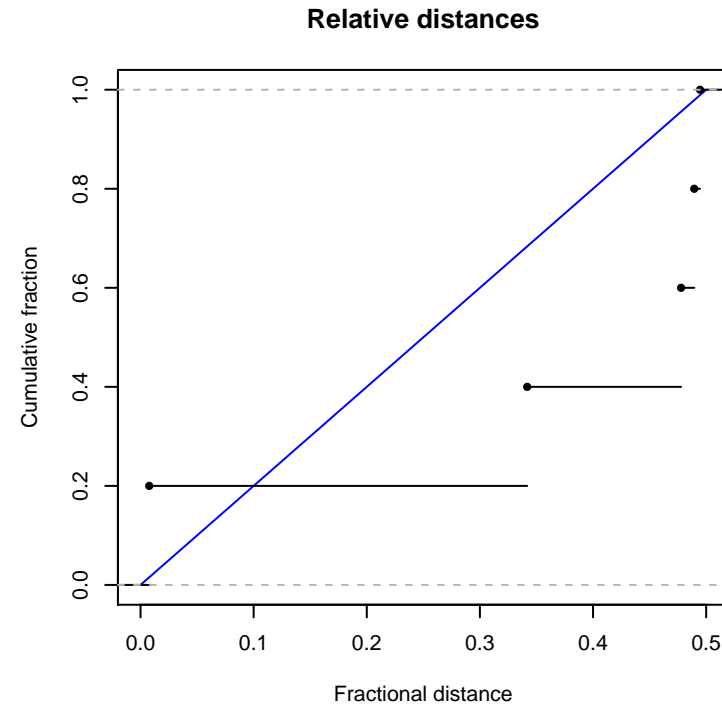
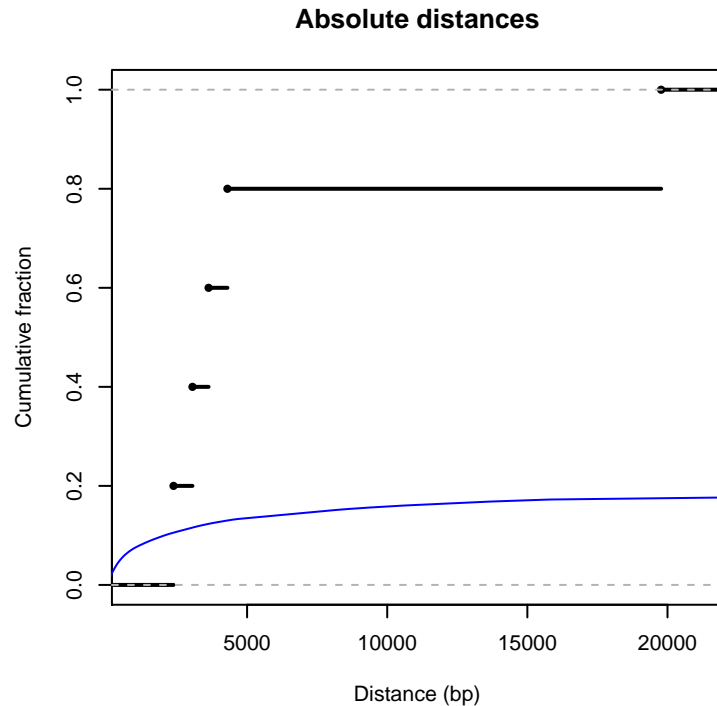
# pcontig\_059

Query population : 12  
Reference population : 235  
Relative Ks p-value : 0.570544  
Relative ecdf deviation area : 0.0431534  
Relative ecdf area correlation : -0.157486  
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 : 0.45  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.446048  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



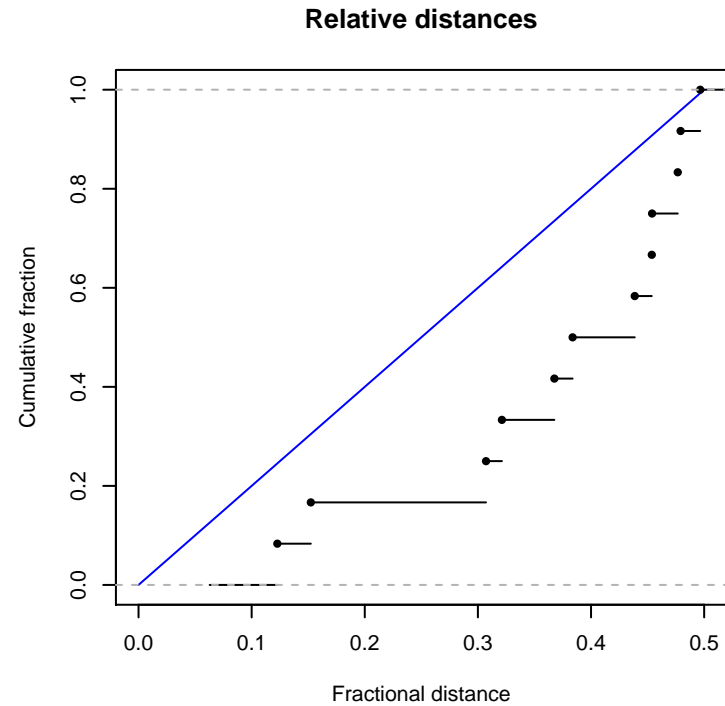
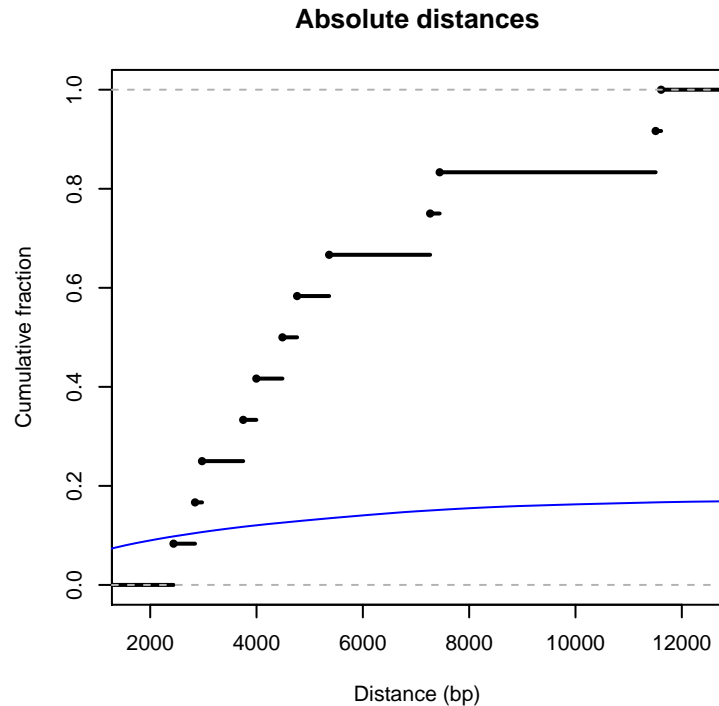
# pcontig\_060

Query population : 5  
Reference population : 261  
Relative Ks p-value : 0.0553405  
Relative ecdf deviation area : 0.129495  
Relative ecdf area correlation : -0.449122  
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 : 0.41  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.271602  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



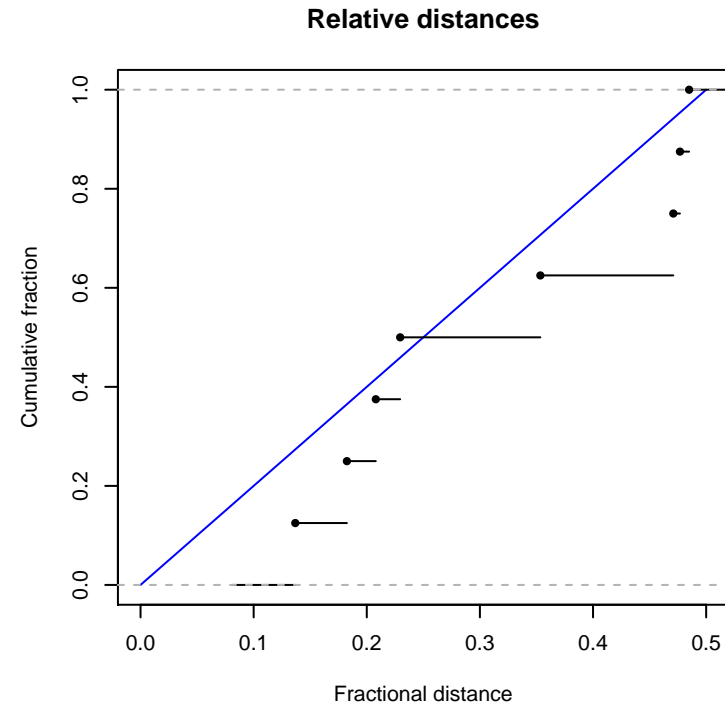
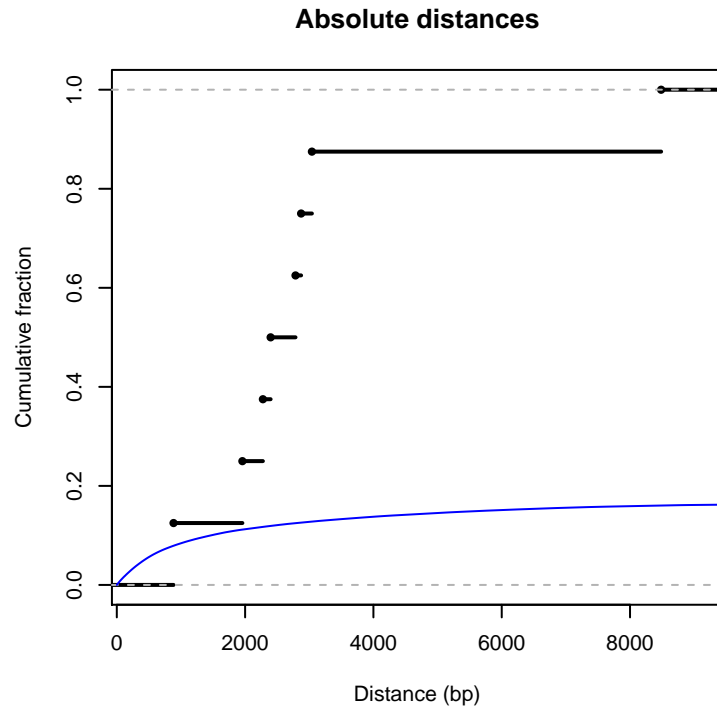
# pcontig\_062

Query population : 12  
Reference population : 249  
Relative Ks p-value : 0.0103334  
Relative ecdf deviation area : 0.120988  
Relative ecdf area correlation : -0.484472  
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 : TRUE  
Projection test p-value : 0.481803  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



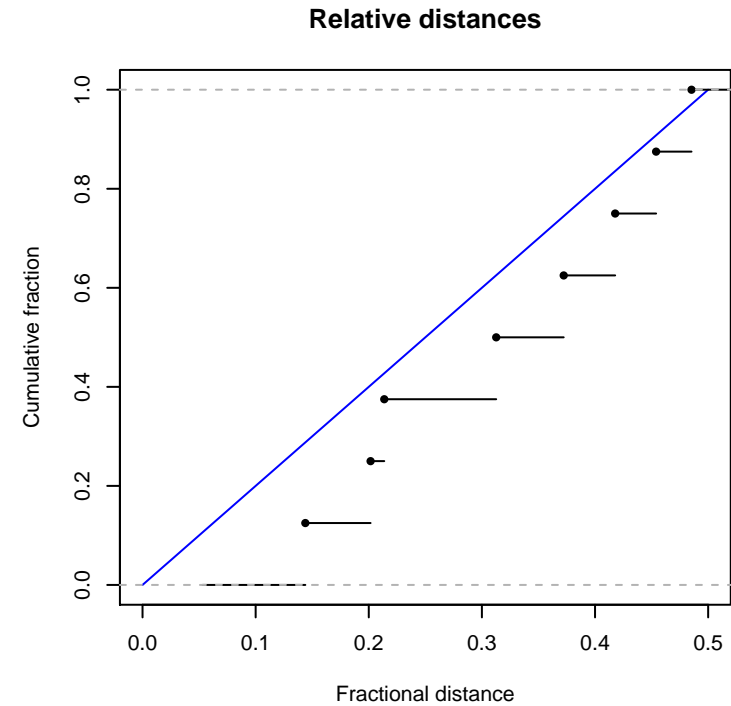
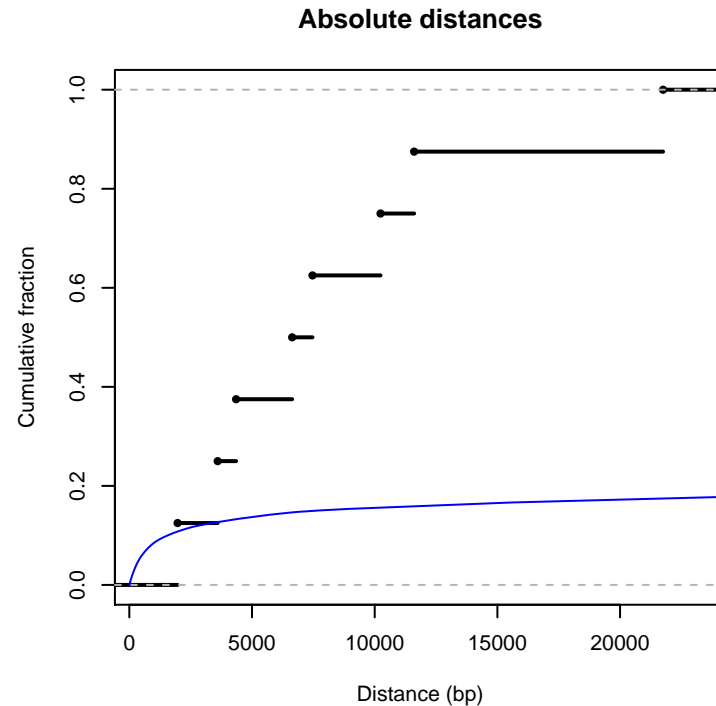
# pcontig\_064

Query population : 8  
Reference population : 273  
Relative Ks p-value : 0.3255  
Relative ecdf deviation area : 0.0693344  
Relative ecdf area correlation : -0.271489  
Relative ecdf deviation area p-value : 0.23  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.36  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.102003  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.80058



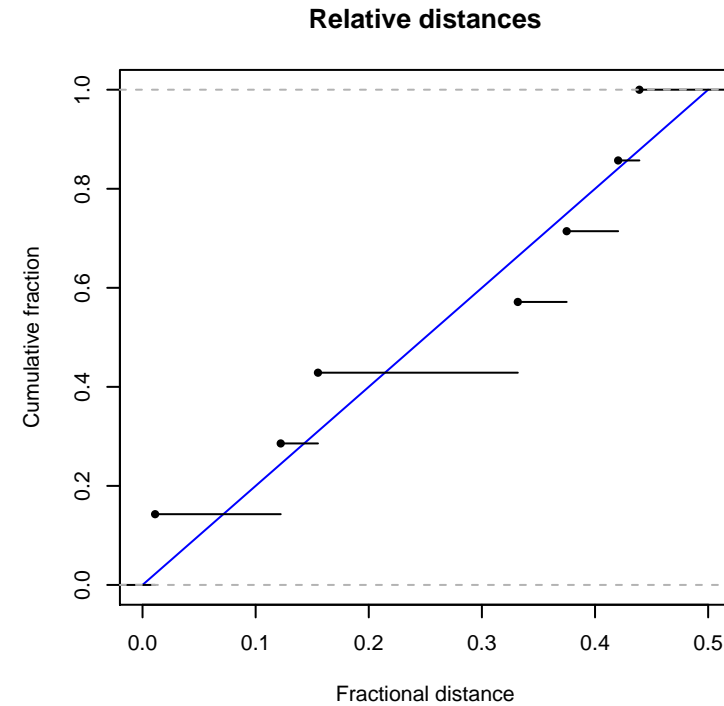
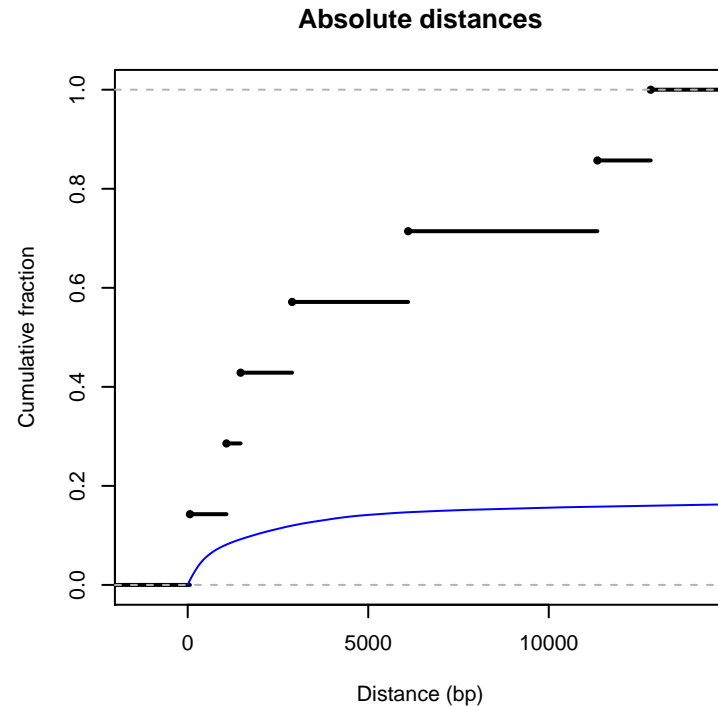
# pcontig\_065

Query population : 8  
Reference population : 320  
Relative Ks p-value : 0.440738  
Relative ecdf deviation area : 0.07575  
Relative ecdf area correlation : -0.30063  
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 : 0.27  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.451513  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_066

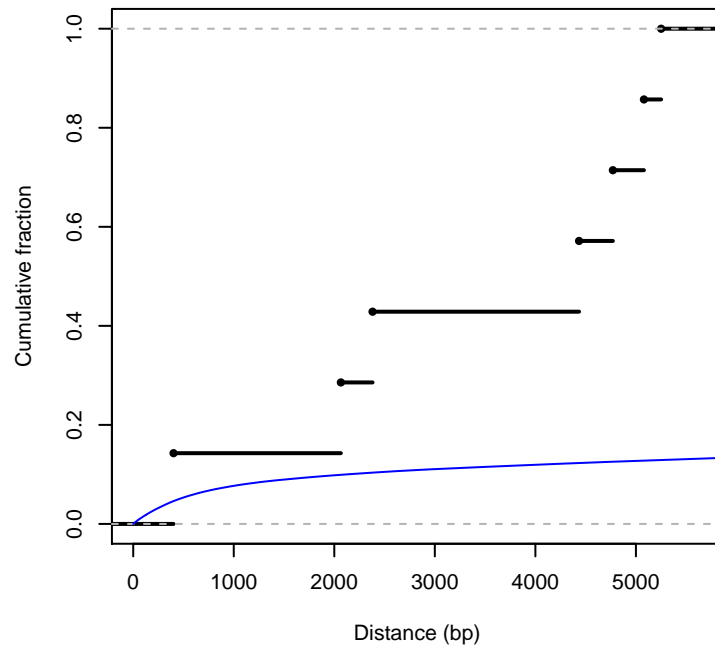
Query population : 7  
Reference population : 263  
Relative Ks p-value : 0.757757  
Relative ecdf deviation area : 0.0375757  
Relative ecdf area correlation : -0.0598085  
Relative ecdf deviation area p-value : 0.77  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.2  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0168285  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.3406



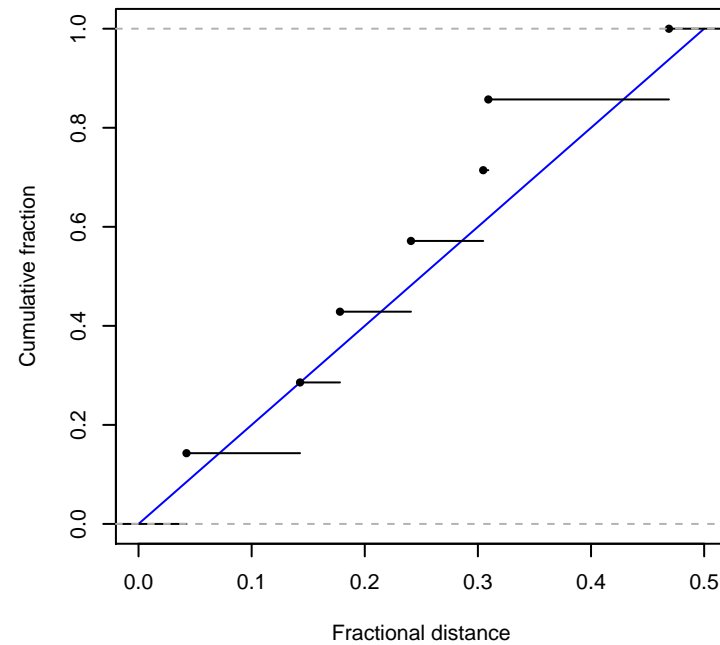
# pcontig\_067

Query population : 7  
Reference population : 294  
Relative Ks p-value : 0.740529  
Relative ecdf deviation area : 0.0296928  
Relative ecdf area correlation : 0.0361081  
Relative ecdf deviation area p-value : 0.96  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.44  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.389377  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

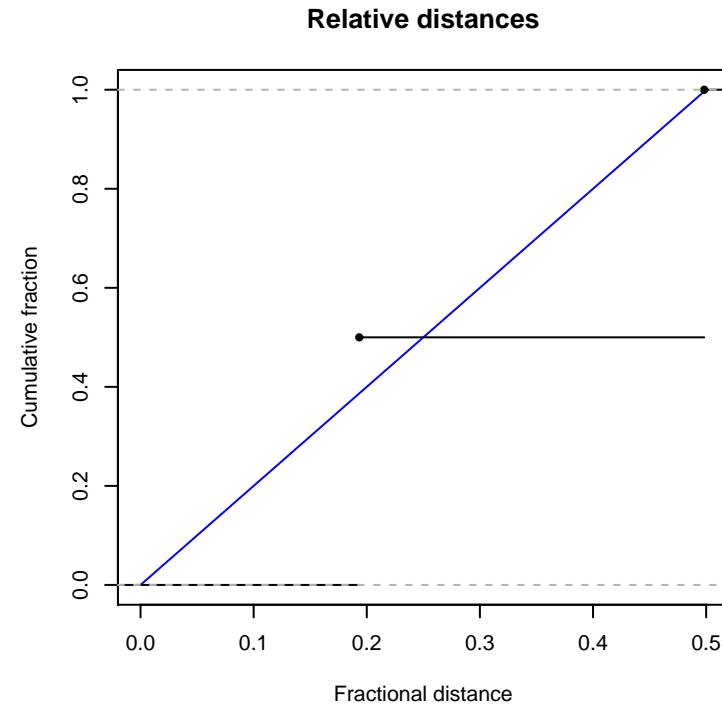
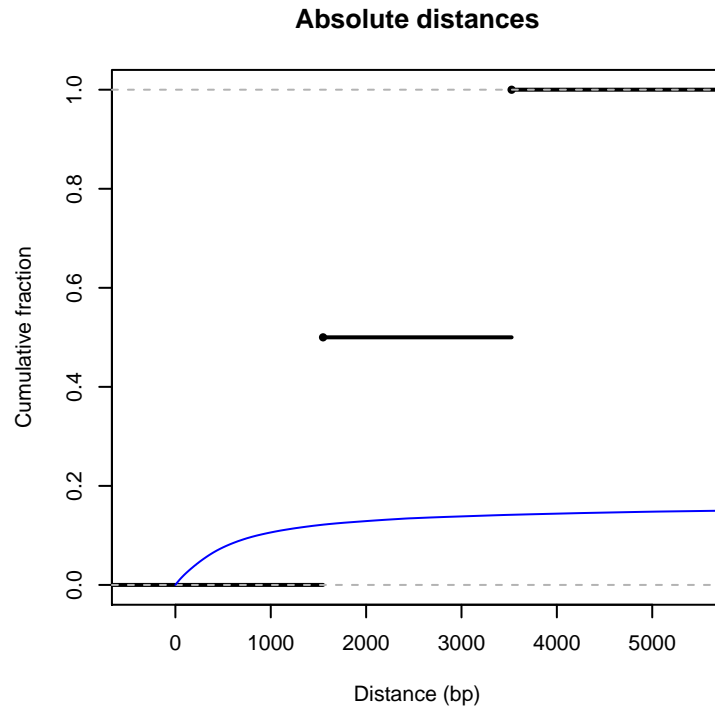


Relative distances



# pcontig\_068

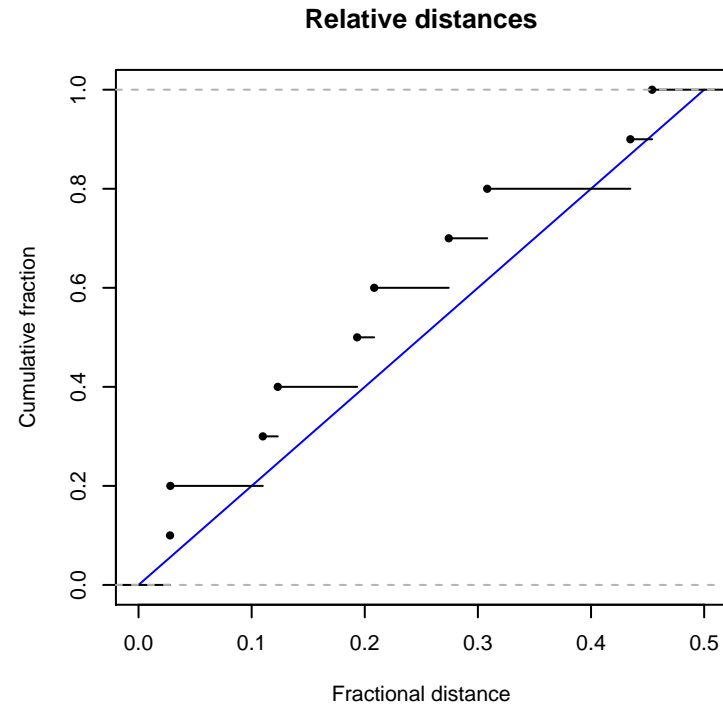
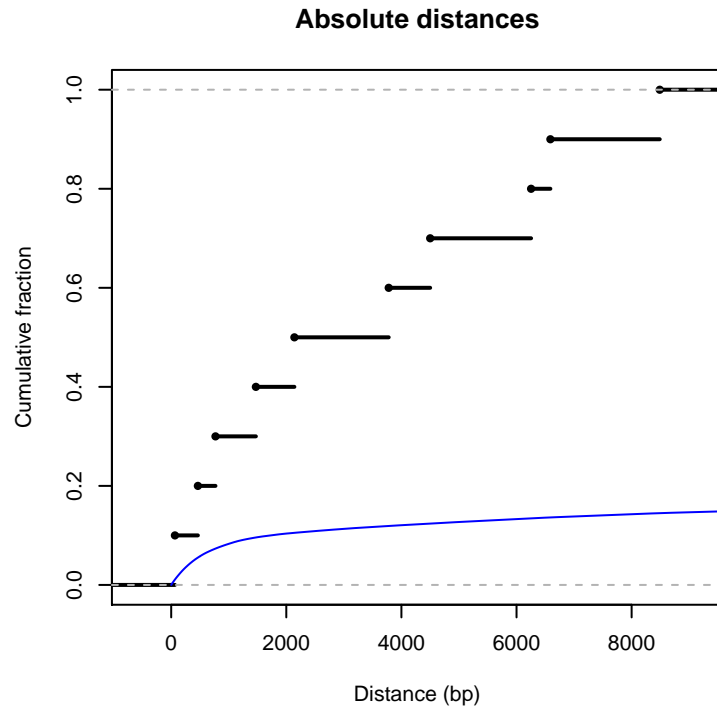
Query population : 2  
Reference population : 406  
Relative Ks p-value : 0.513424  
Relative ecdf deviation area : 0.102292  
Relative ecdf area correlation : -0.38338  
Relative ecdf deviation area p-value : 0.5  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.24  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.197037  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





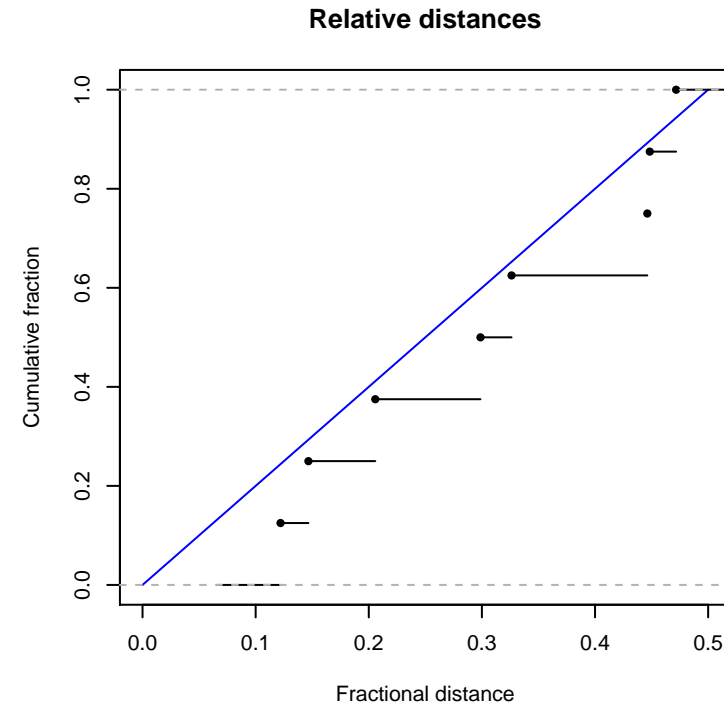
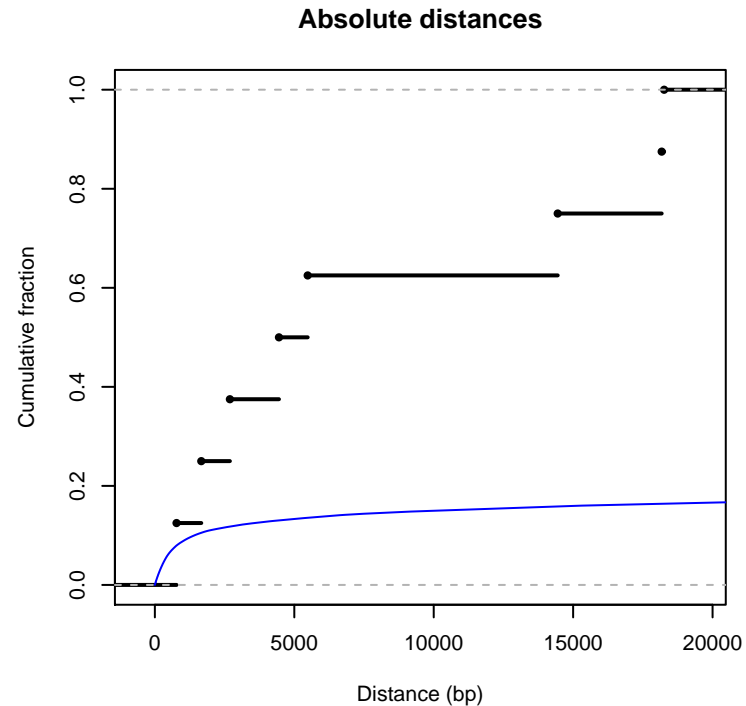
# pcontig\_069

Query population : 10  
Reference population : 287  
Relative Ks p-value : 0.830875  
Relative ecdf deviation area : 0.0382686  
Relative ecdf area correlation : 0.135303  
Relative ecdf deviation area p-value : 0.56  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.41  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.158033  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 1.39316



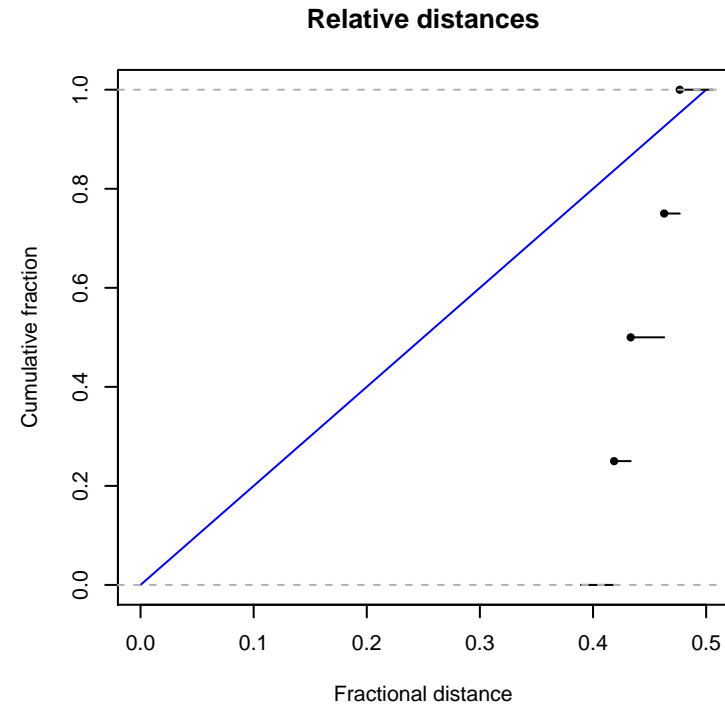
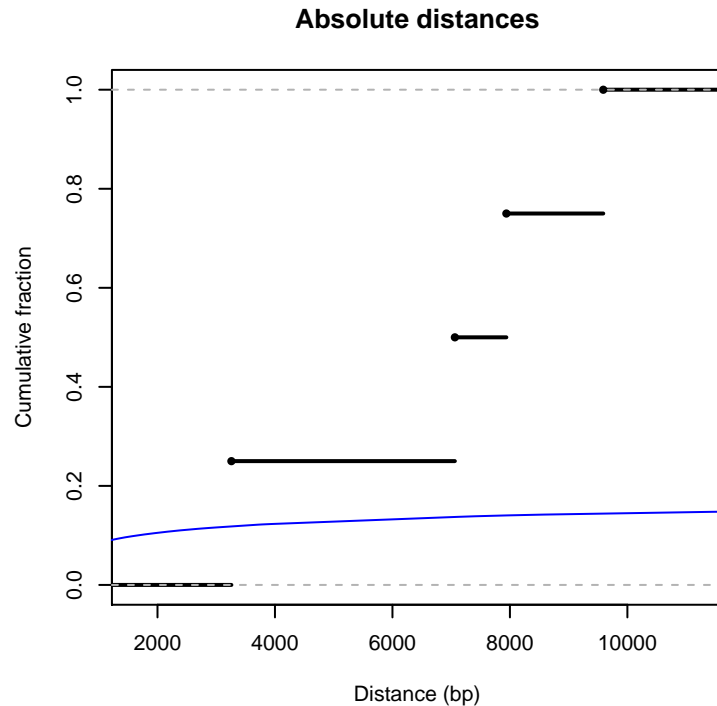
# pcontig\_070

Query population : 8  
Reference population : 332  
Relative Ks p-value : 0.531431  
Relative ecdf deviation area : 0.0593383  
Relative ecdf area correlation : -0.232825  
Relative ecdf deviation area p-value : 0.29  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.4  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.488285  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



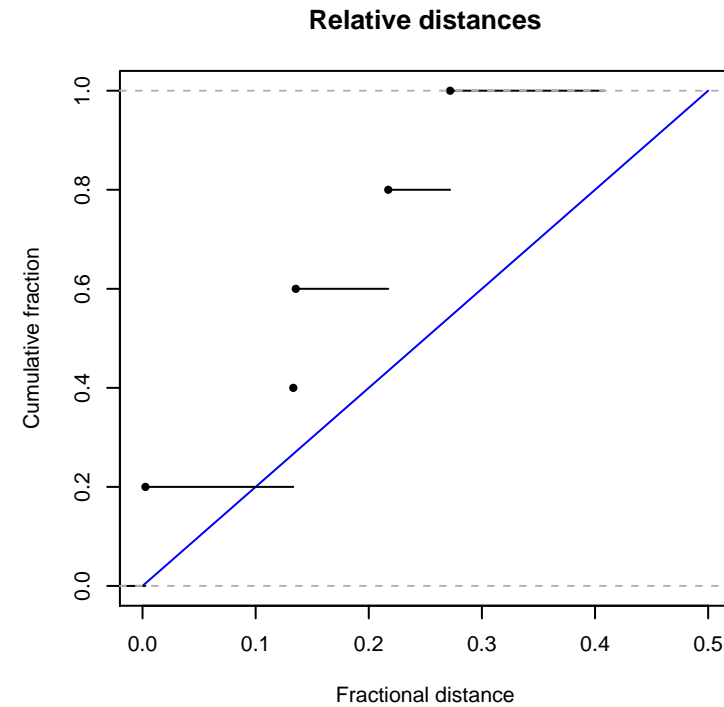
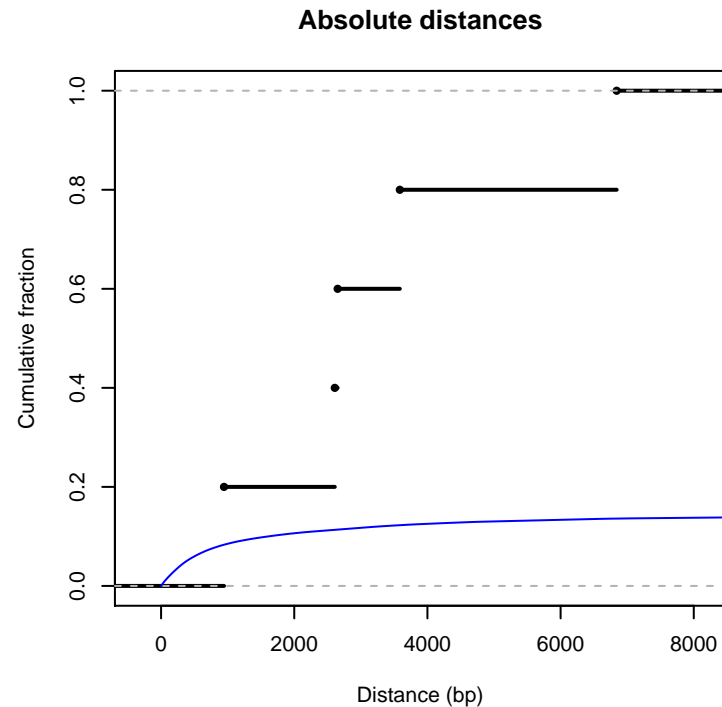
# pcontig\_072

Query population : 4  
Reference population : 354  
Relative Ks p-value : 0.00140175  
Relative ecdf deviation area : 0.198886  
Relative ecdf area correlation : -0.791516  
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 : 0.264708  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



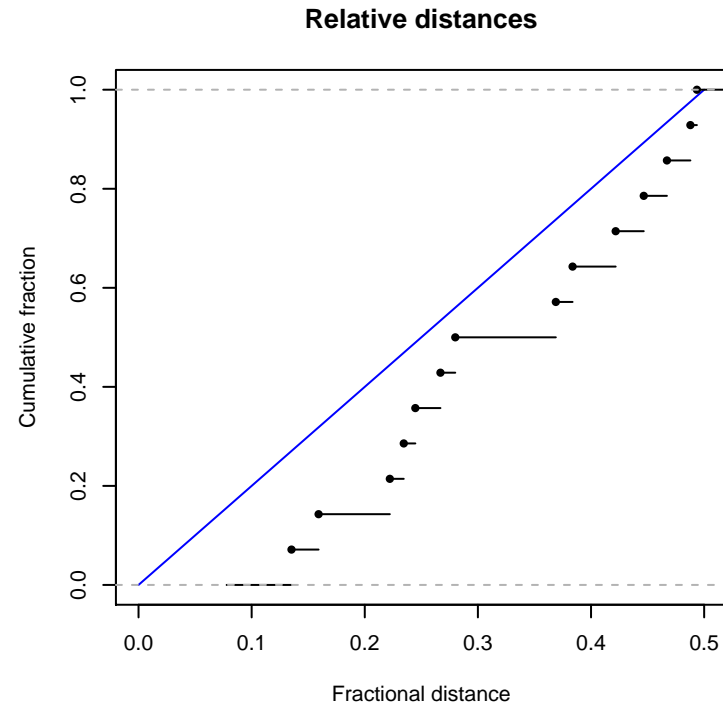
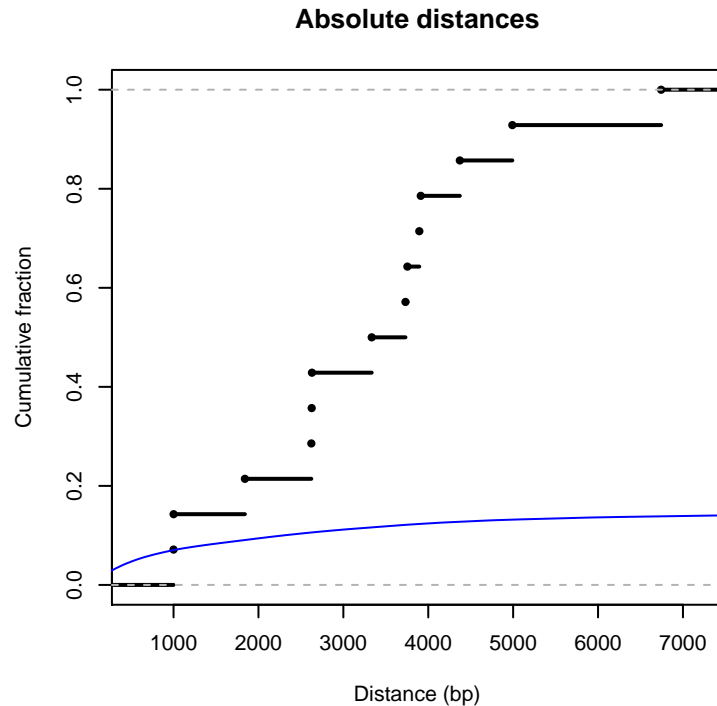
# pcontig\_073

Query population : 5  
Reference population : 322  
Relative Ks p-value : 0.182018  
Relative ecdf deviation area : 0.100302  
Relative ecdf area correlation : 0.391653  
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 : 0.28  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.347826  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



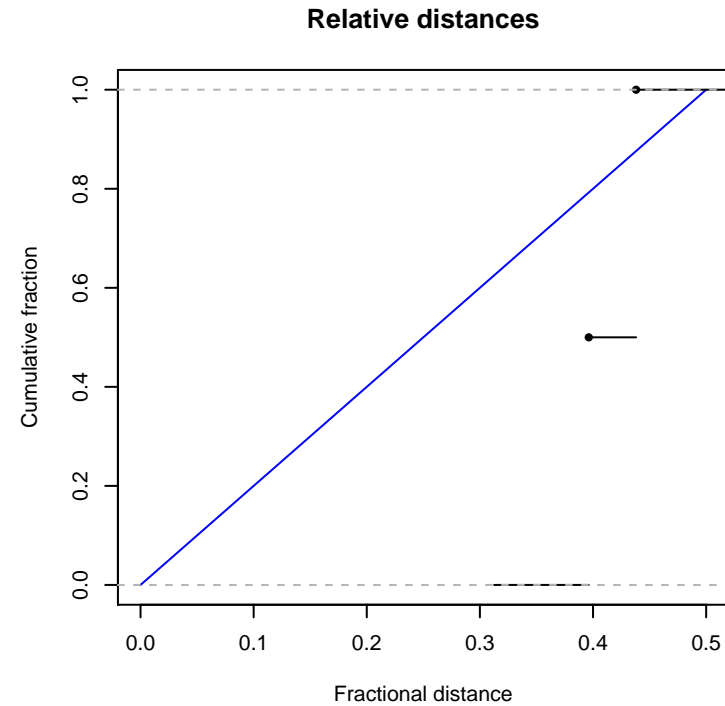
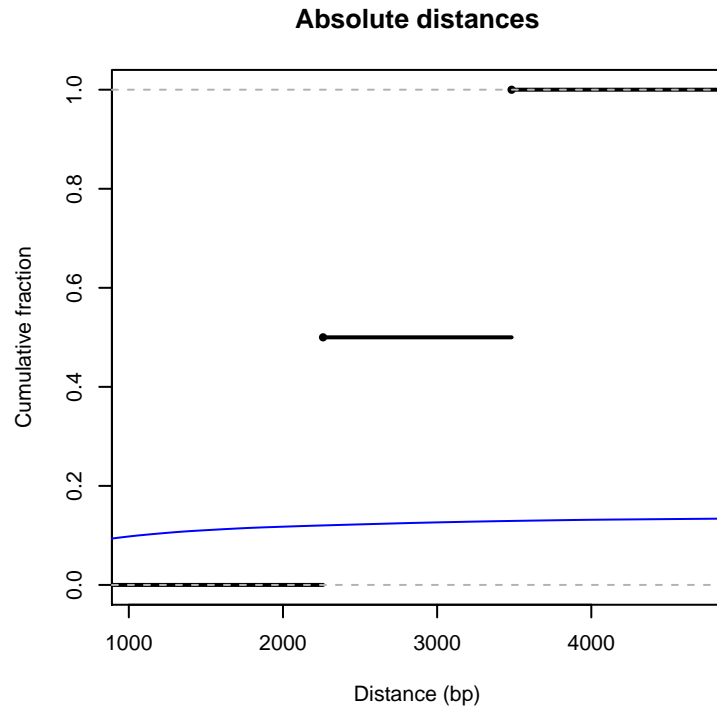
# pcontig\_074

Query population : 14  
Reference population : 225  
Relative Ks p-value : 0.126421  
Relative ecdf deviation area : 0.0793262  
Relative ecdf area correlation : -0.317765  
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 : 0.28  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.424913  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



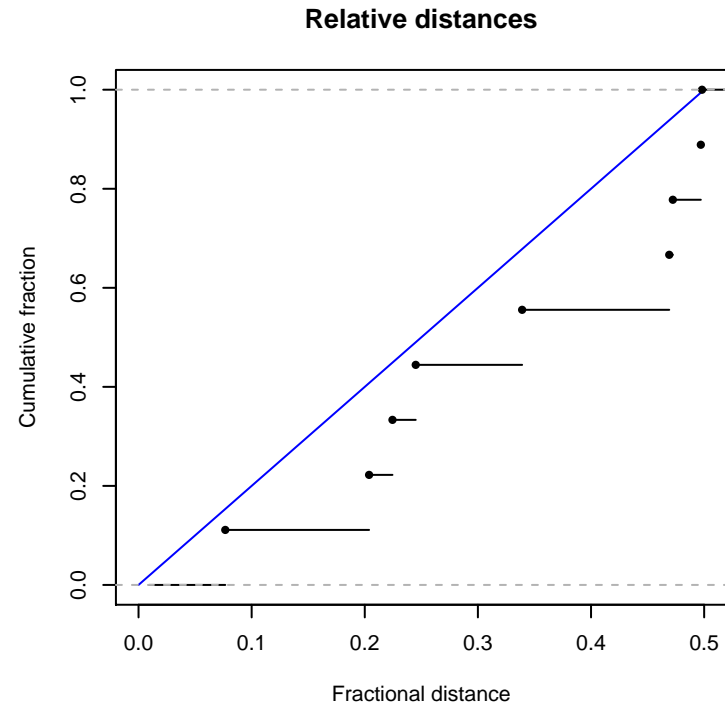
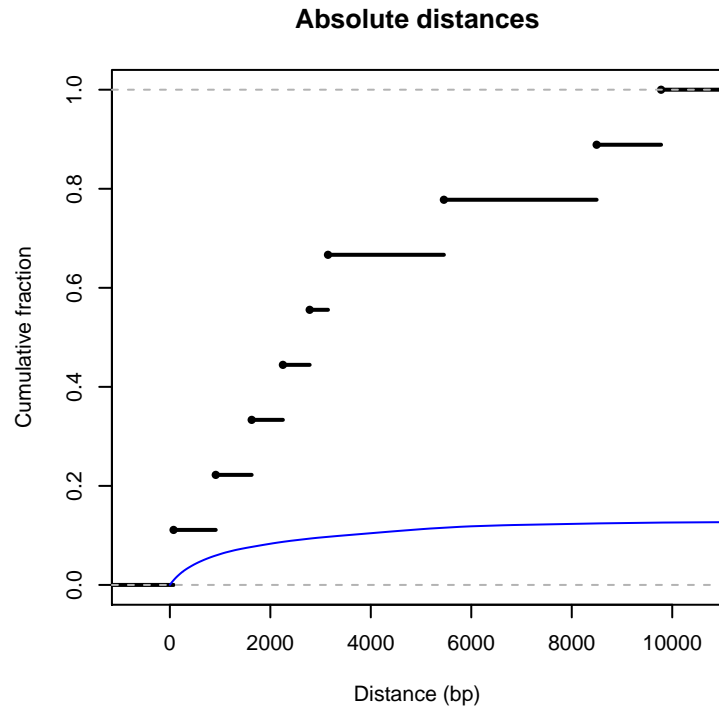
# pcontig\_075

Query population : 2  
Reference population : 405  
Relative Ks p-value : 0.086116  
Relative ecdf deviation area : 0.17482  
Relative ecdf area correlation : -0.668667  
Relative ecdf deviation area p-value : 0.11  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.13  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.179852  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



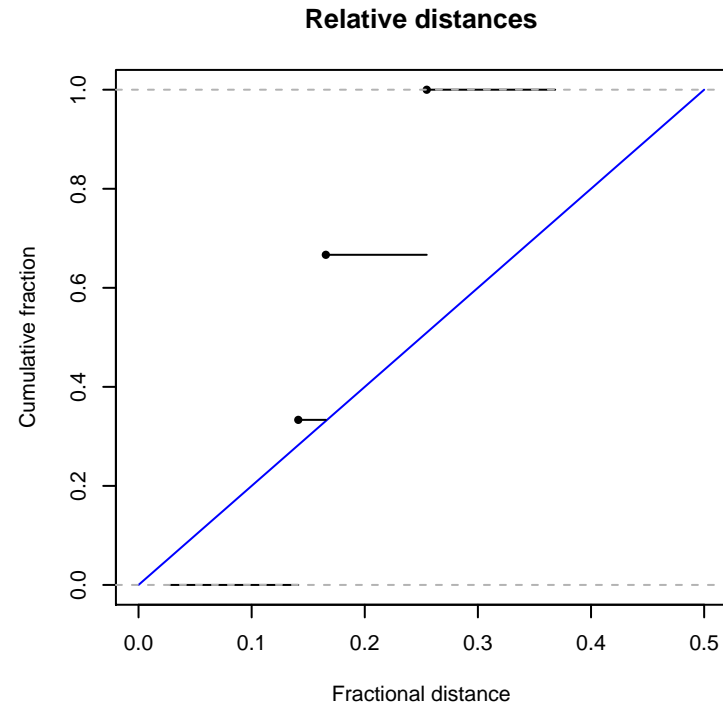
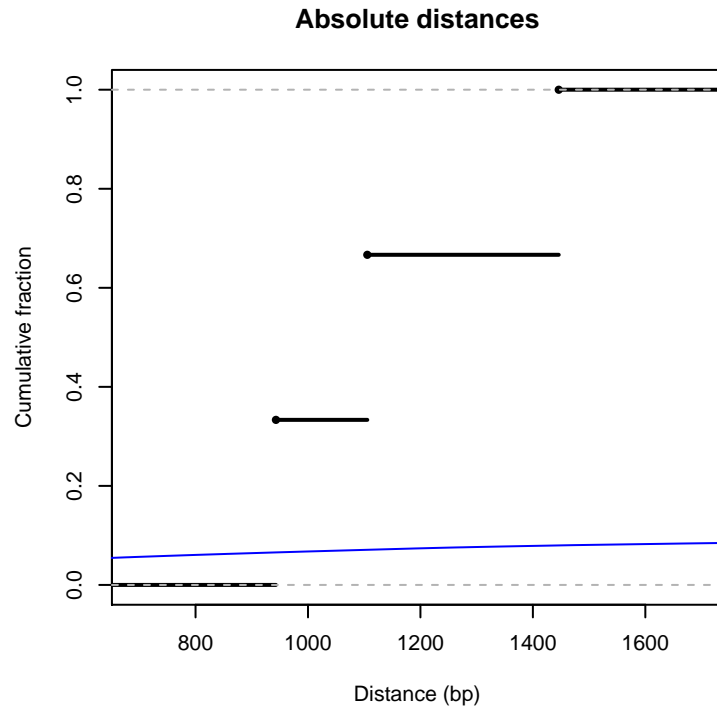
# pcontig\_077

Query population : 9  
Reference population : 236  
Relative Ks p-value : 0.107493  
Relative ecdf deviation area : 0.0862163  
Relative ecdf area correlation : -0.344779  
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 : 0.14  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0808585  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 2.06716



# pcontig\_078

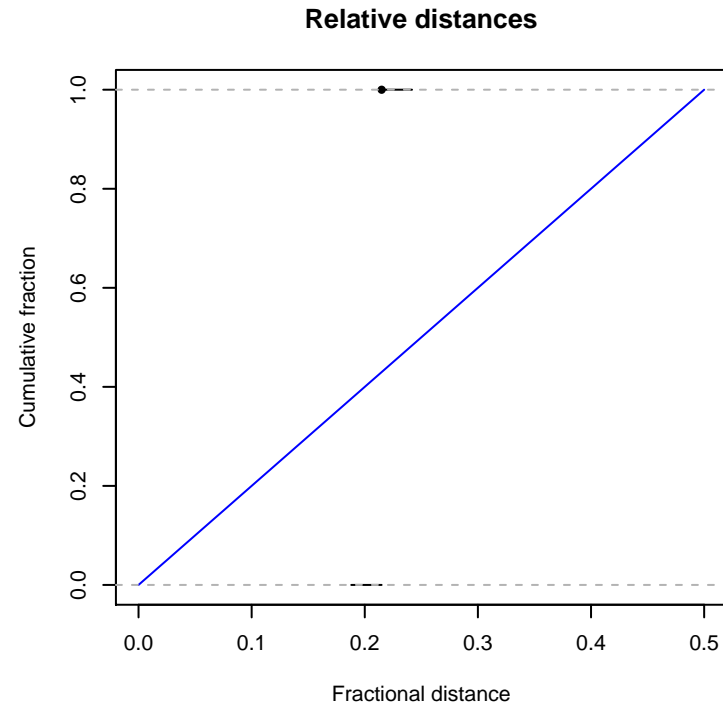
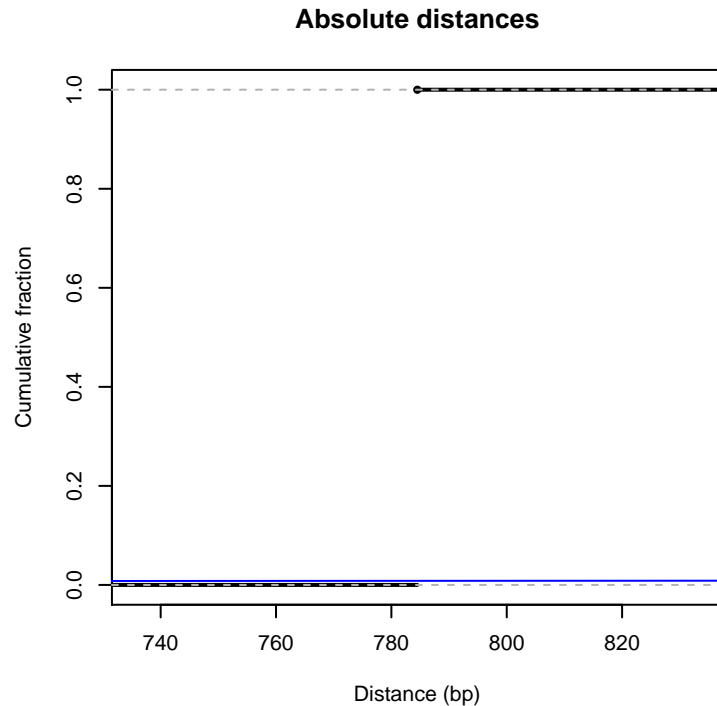
Query population : 3  
Reference population : 251  
Relative Ks p-value : 0.355992  
Relative ecdf deviation area : 0.102532  
Relative ecdf area correlation : 0.251228  
Relative ecdf deviation area p-value : 0.34  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000232273  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 10.8453





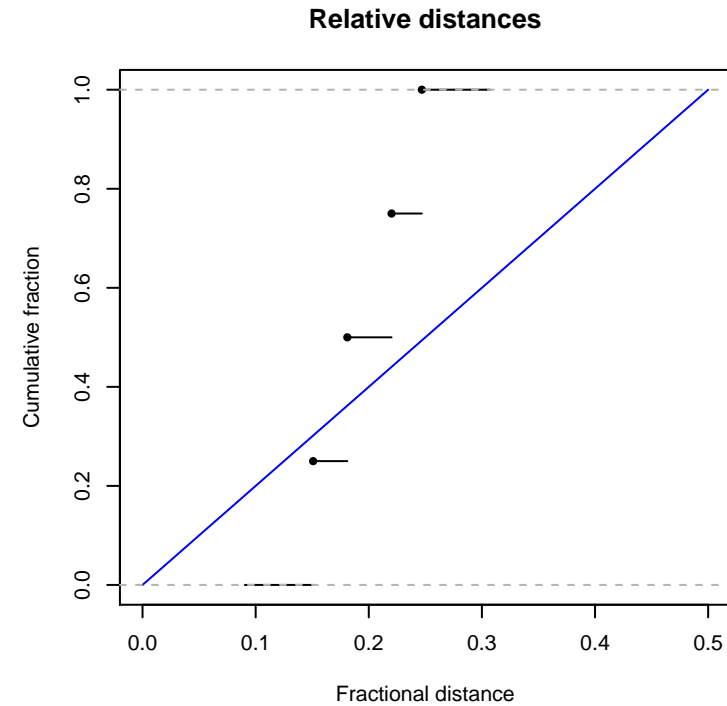
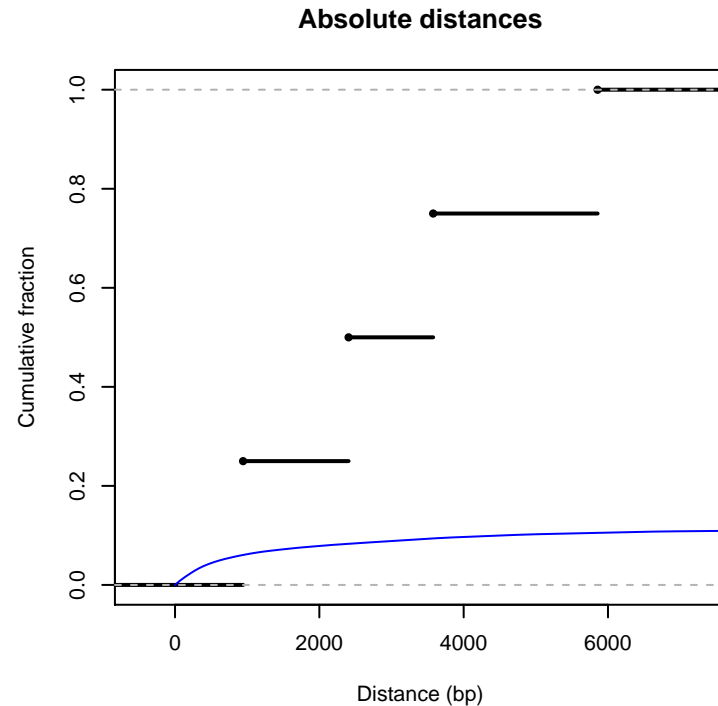
# pcontig\_079

Query population : 1  
Reference population : 38  
Relative Ks p-value : 0.859608  
Relative ecdf deviation area : 0.126943  
Relative ecdf area correlation : 0.140392  
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  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 107.983



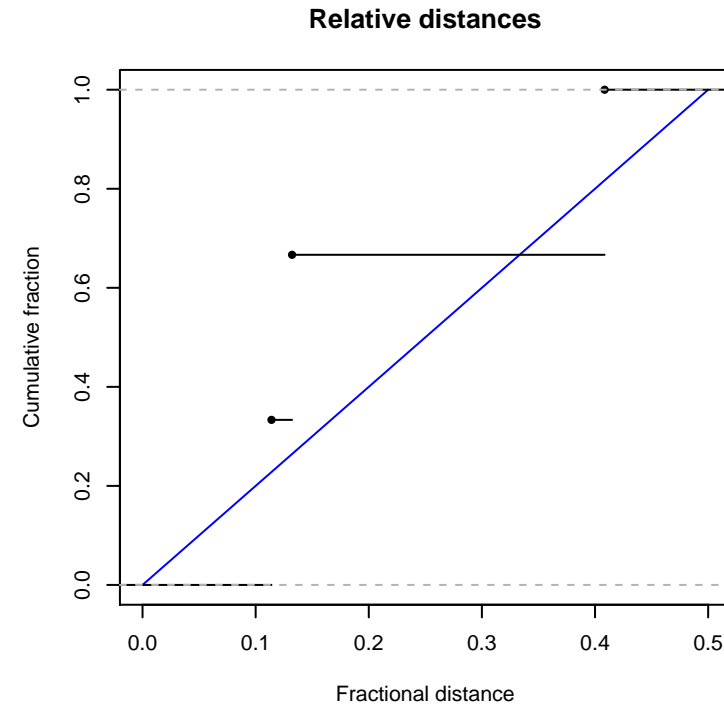
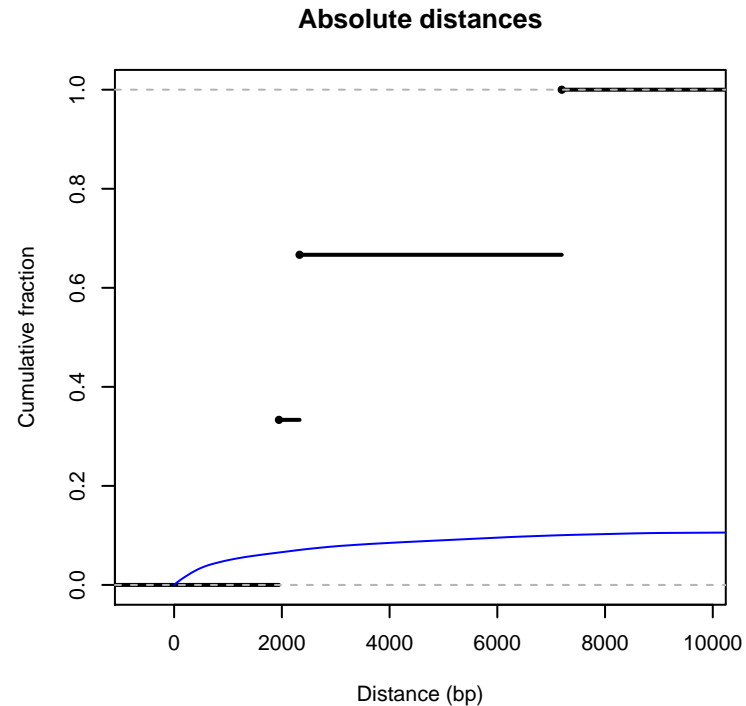
# pcontig\_080

Query population : 4  
Reference population : 224  
Relative Ks p-value : 0.177634  
Relative ecdf deviation area : 0.100176  
Relative ecdf area correlation : 0.201071  
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 : 0.12  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.200266  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



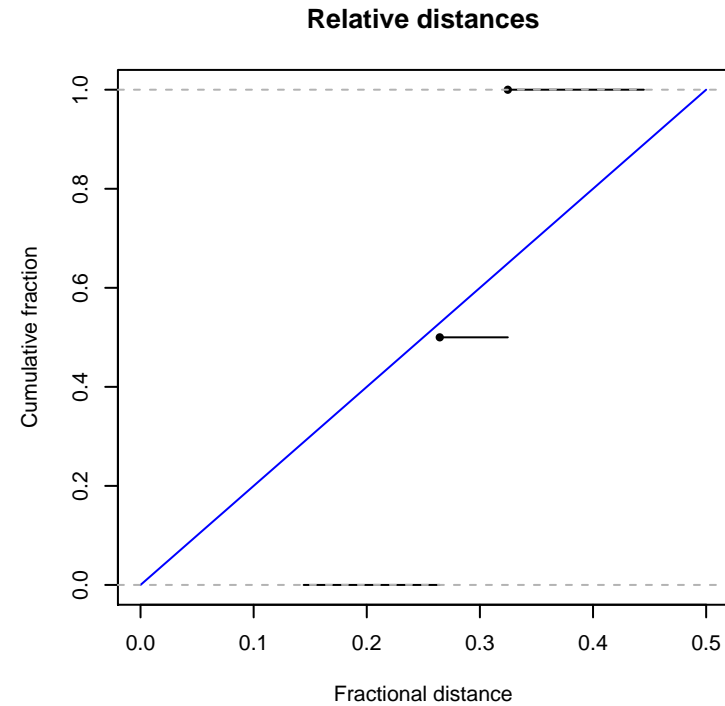
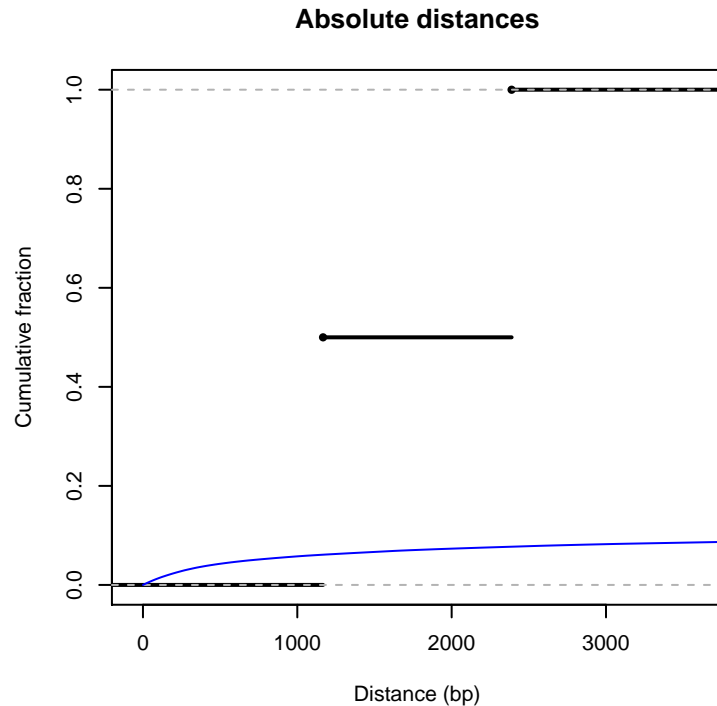
# pcontig\_081

Query population : 3  
Reference population : 155  
Relative Ks p-value : 0.588351  
Relative ecdf deviation area : 0.0685752  
Relative ecdf area correlation : 0.12714  
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 : 0.19  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.132127  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



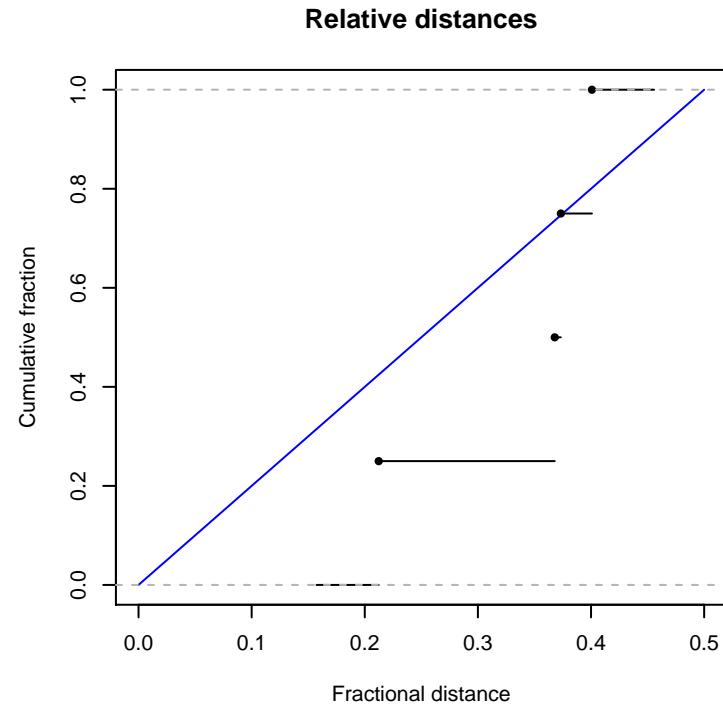
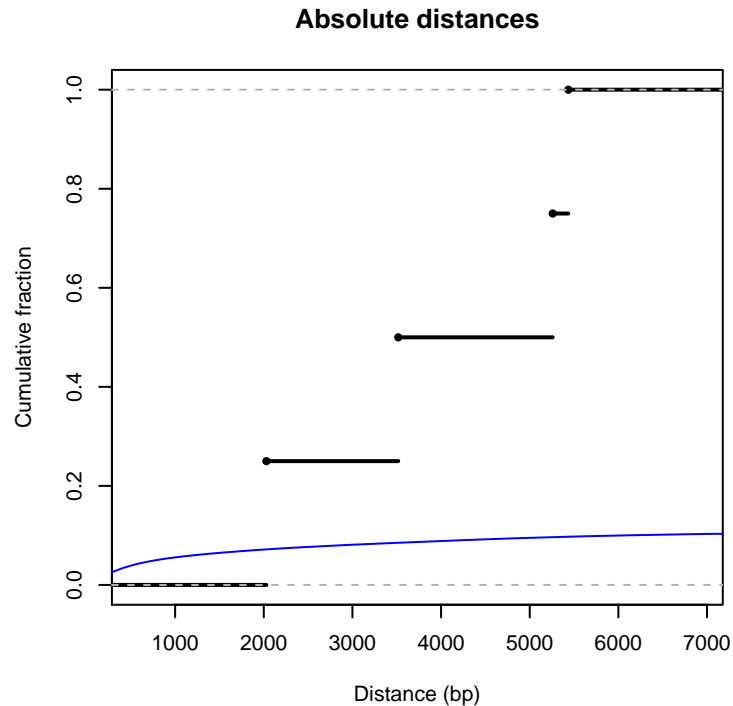
# pcontig\_082

Query population : 2  
Reference population : 254  
Relative Ks p-value : 0.4436  
Relative ecdf deviation area : 0.106028  
Relative ecdf area correlation : -0.178369  
Relative ecdf deviation area p-value : 0.42  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.13  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0995678  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



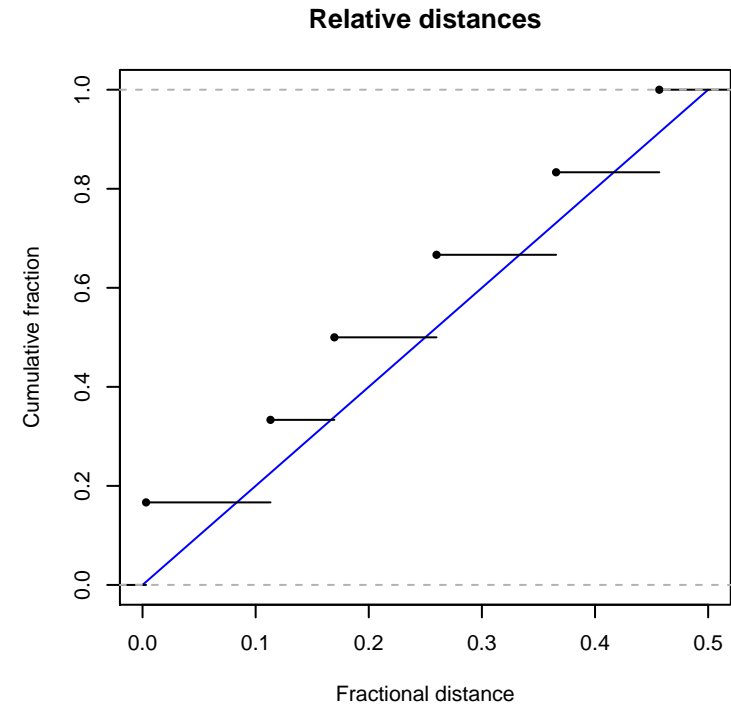
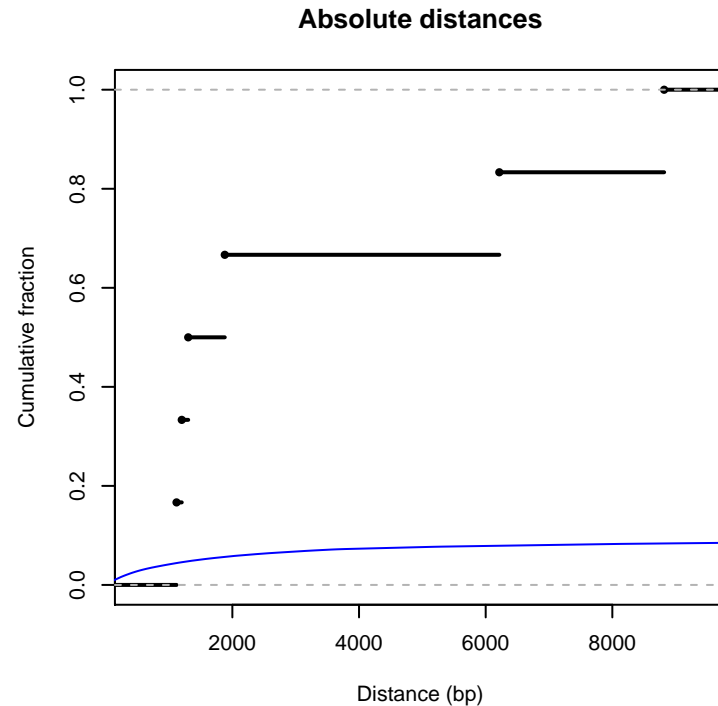
# pcontig\_083

Query population : 4  
Reference population : 199  
Relative Ks p-value : 0.212548  
Relative ecdf deviation area : 0.10839  
Relative ecdf area correlation : -0.354339  
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 : 0.3  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.173685  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



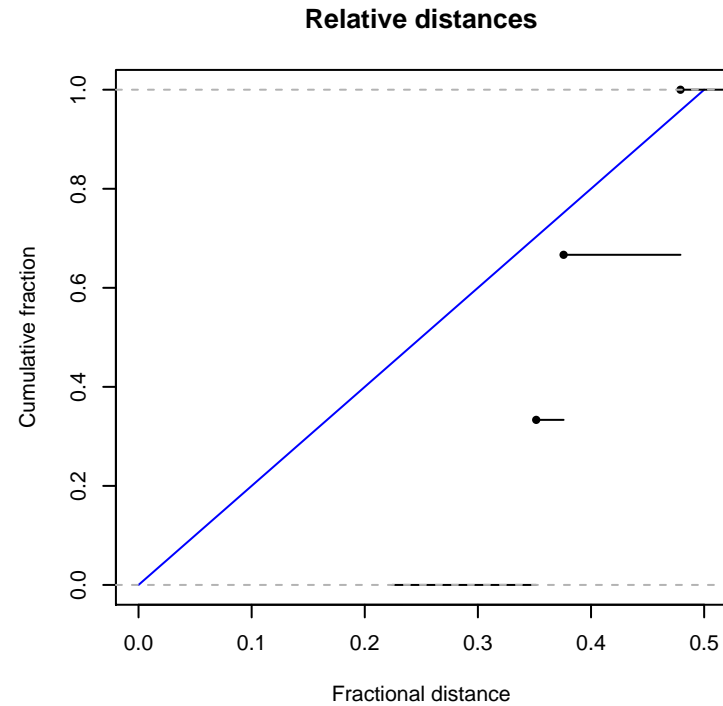
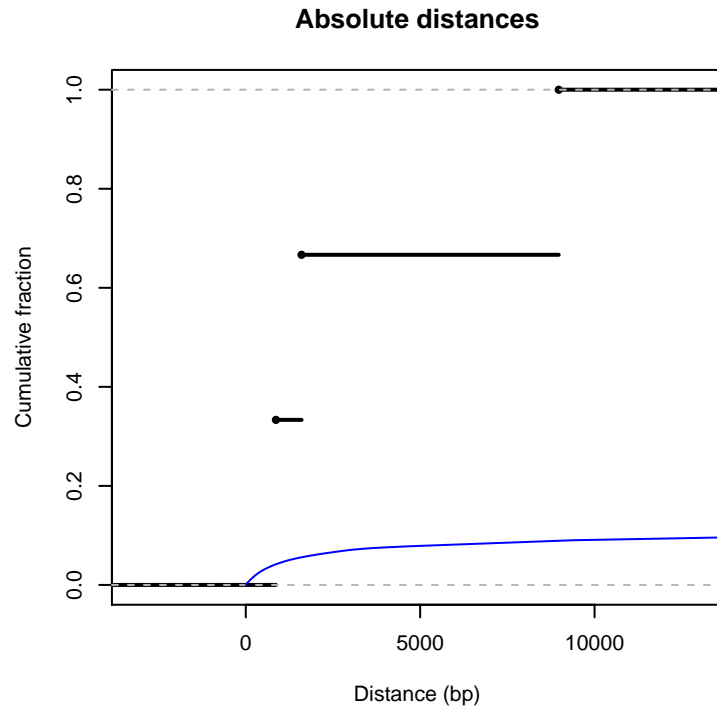
# pcontig\_084

Query population : 6  
Reference population : 135  
Relative Ks p-value : 0.990019  
Relative ecdf deviation area : 0.0297476  
Relative ecdf area correlation : 0.0879104  
Relative ecdf deviation area p-value : 1  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0293625  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 3.53536



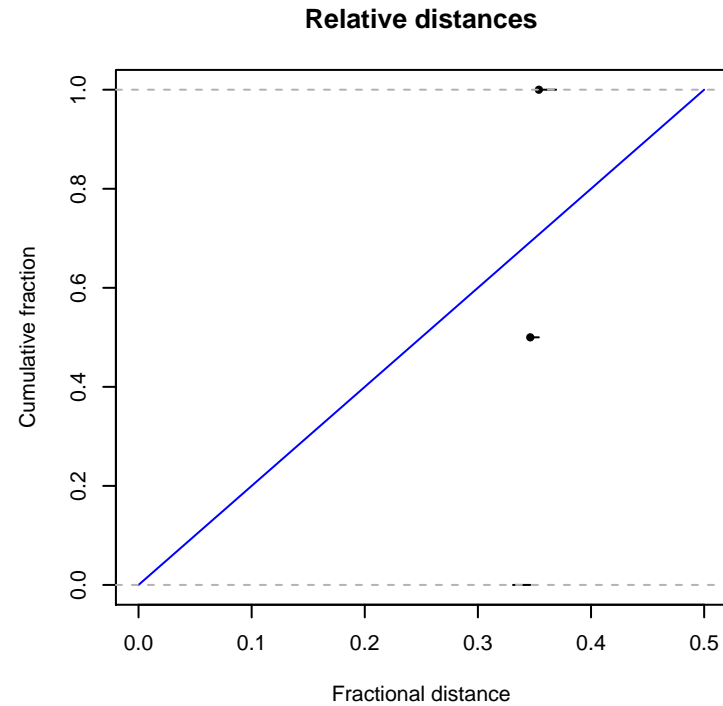
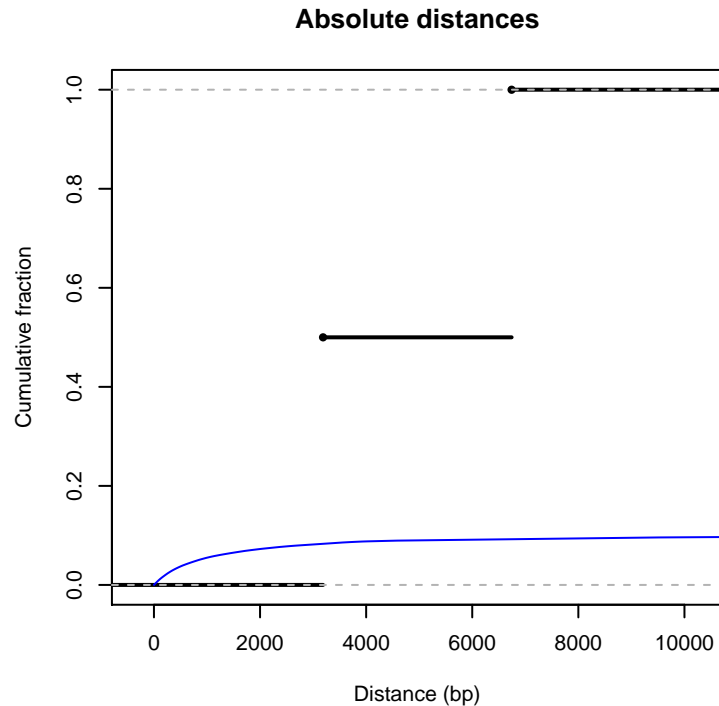
# pcontig\_086

Query population : 3  
Reference population : 149  
Relative Ks p-value : 0.0523384  
Relative ecdf deviation area : 0.152775  
Relative ecdf area correlation : -0.608536  
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 : 0.19  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.123052  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_087

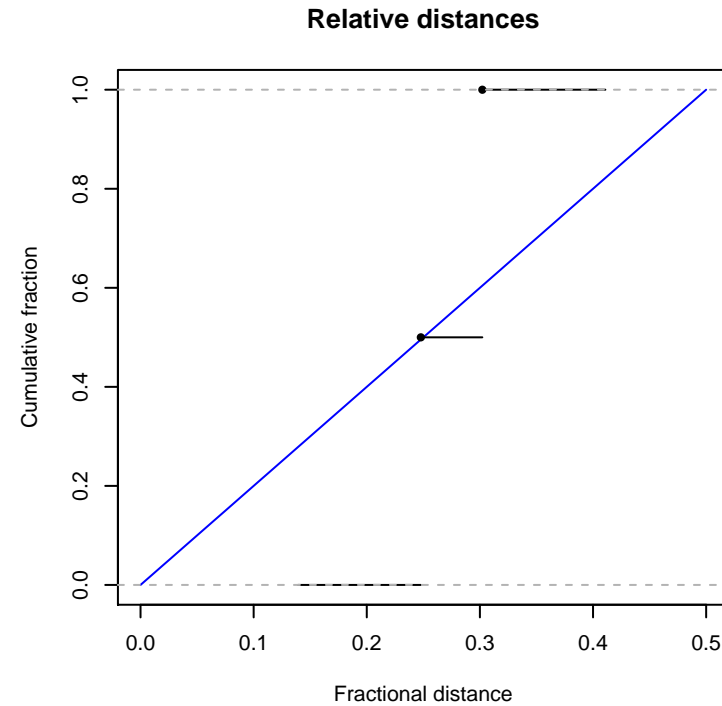
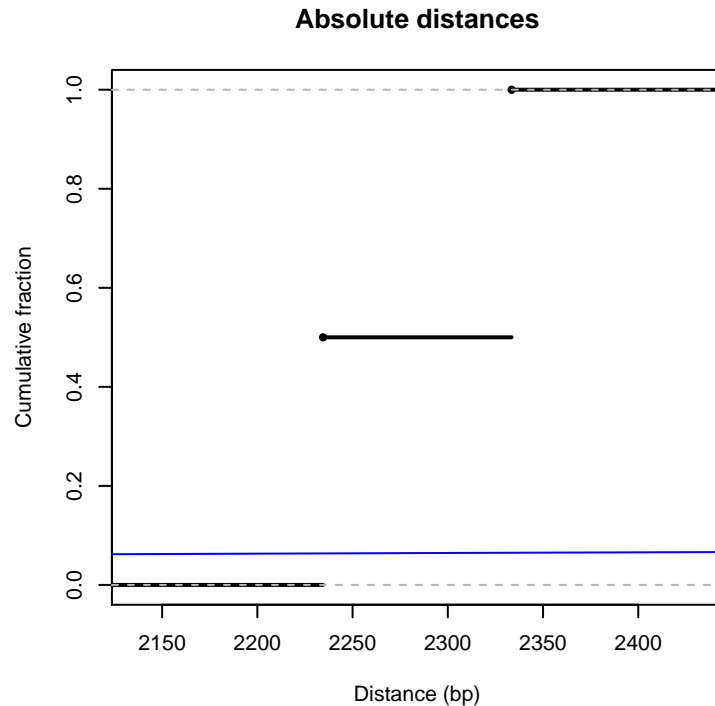
Query population : 2  
Reference population : 189  
Relative Ks p-value : 0.189046  
Relative ecdf deviation area : 0.142894  
Relative ecdf area correlation : -0.400357  
Relative ecdf deviation area p-value : 0.3  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.17  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0973598  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





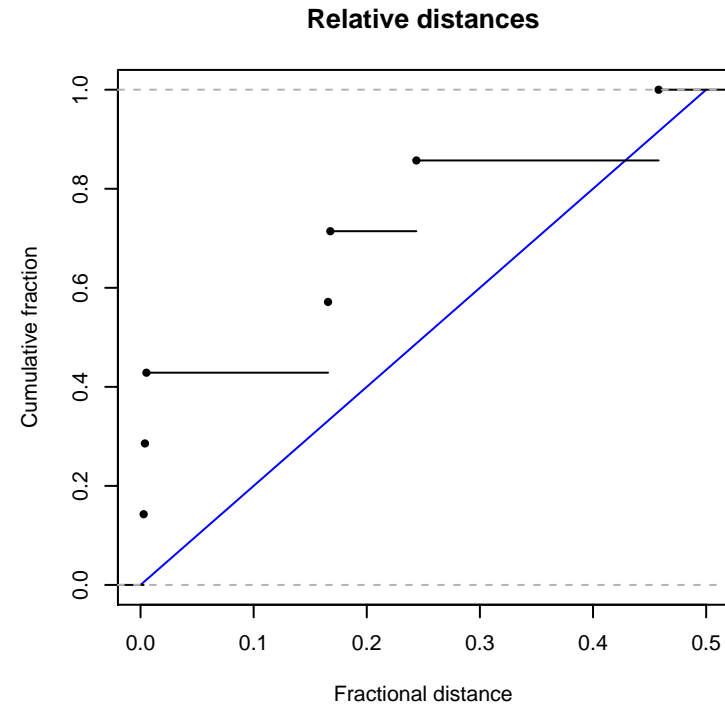
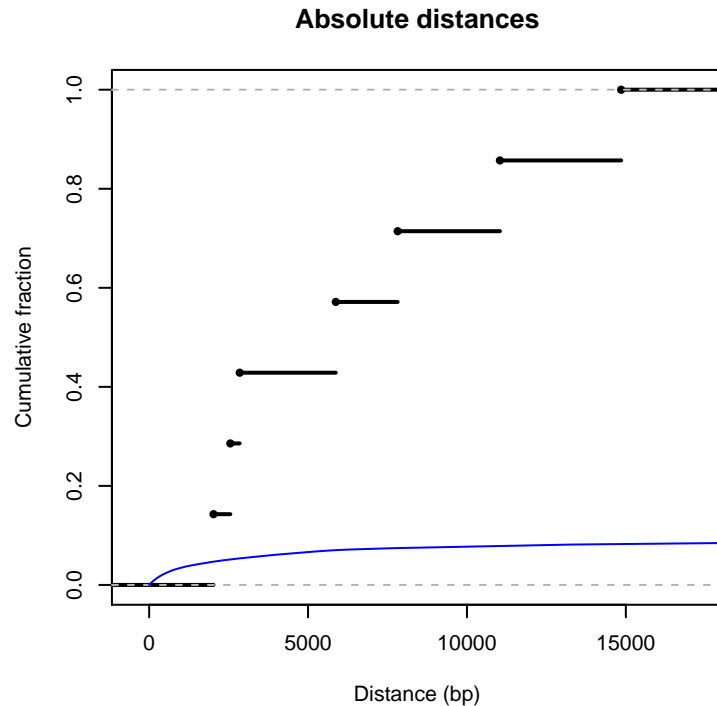
# pcontig\_088

Query population : 2  
Reference population : 144  
Relative Ks p-value : 0.517477  
Relative ecdf deviation area : 0.103251  
Relative ecdf area correlation : -0.0999299  
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 : 0.14  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0743774  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



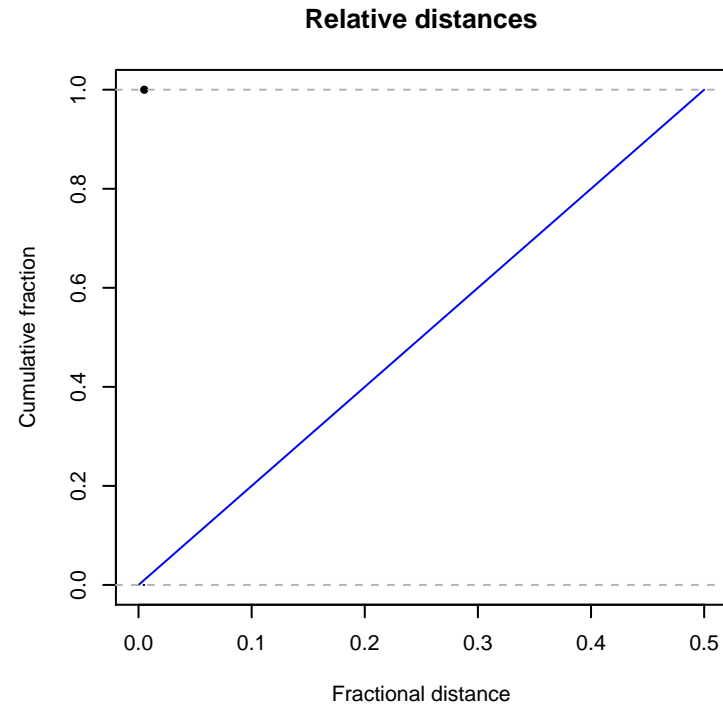
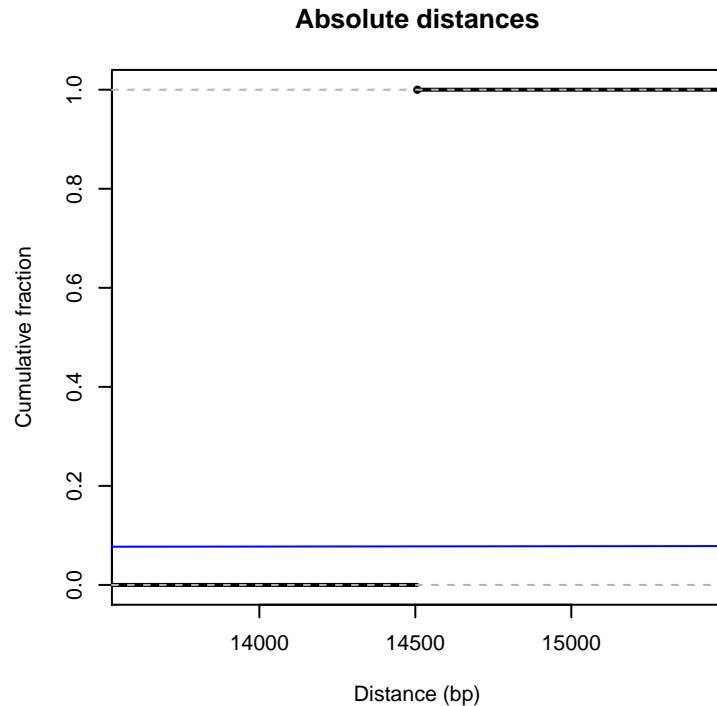
# pcontig\_089

Query population : 7  
Reference population : 120  
Relative Ks p-value : 0.12683  
Relative ecdf deviation area : 0.101846  
Relative ecdf area correlation : 0.401601  
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 : 0.26  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.184582  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



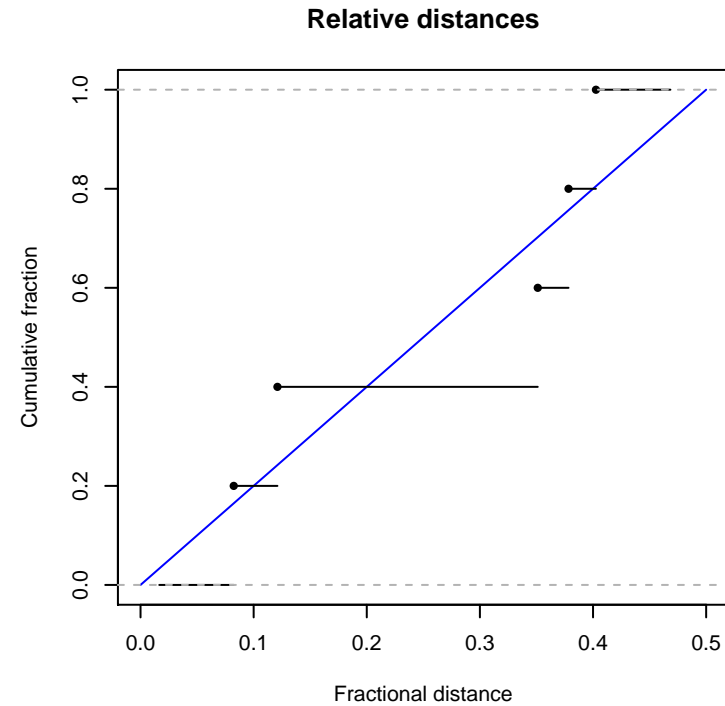
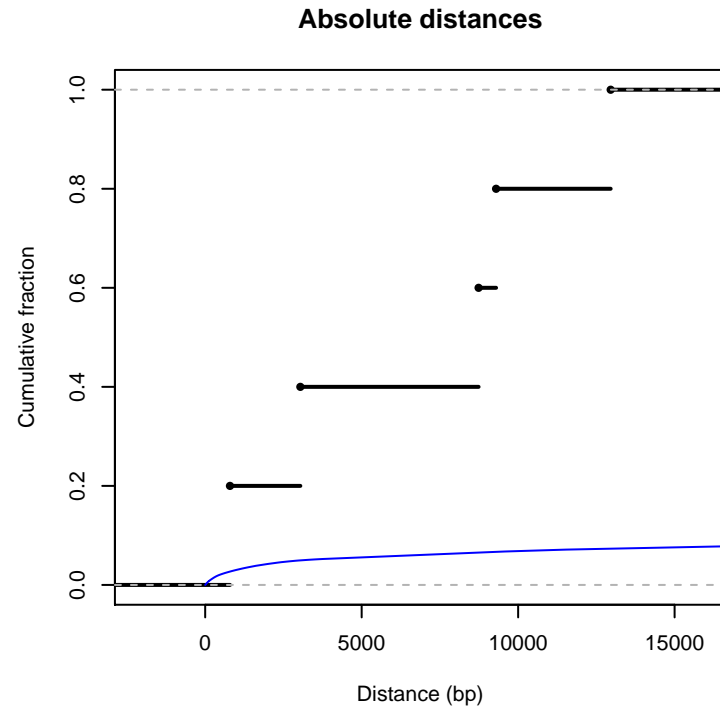
# pcontig\_090

Query population : 1  
Reference population : 222  
Relative Ks p-value : 0.0202692  
Relative ecdf deviation area : 0.244619  
Relative ecdf area correlation : 0.979731  
Relative ecdf deviation area p-value : 0.03  
Scaled Absolute min. distance p-value : 0.09  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.08  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0487098  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



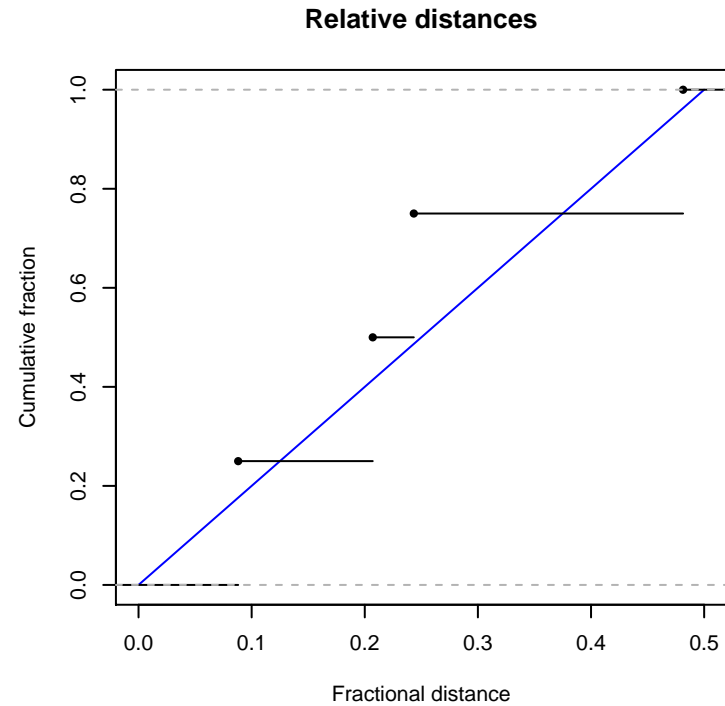
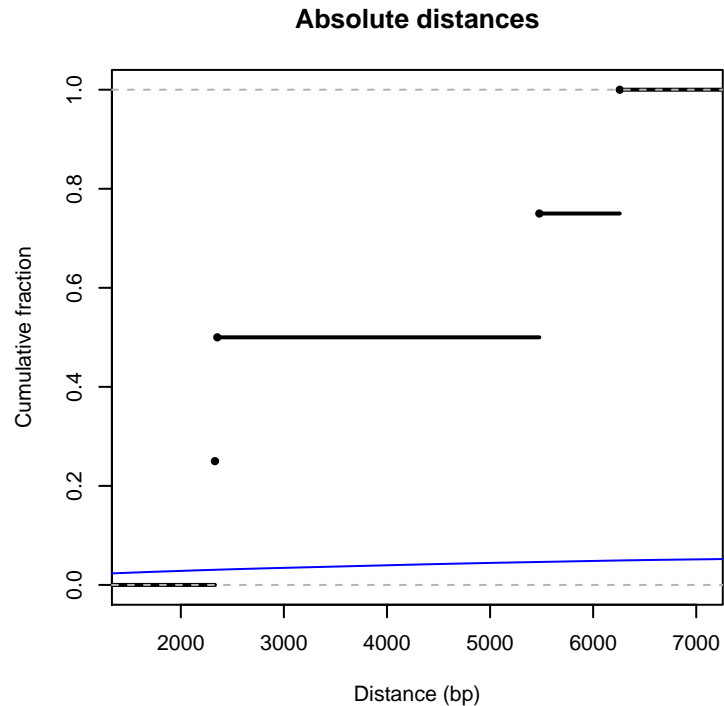
# pcontig\_091

Query population : 5  
Reference population : 129  
Relative Ks p-value : 0.655036  
Relative ecdf deviation area : 0.0501121  
Relative ecdf area correlation : -0.0683815  
Relative ecdf deviation area p-value : 0.76  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0102506  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 6.04171



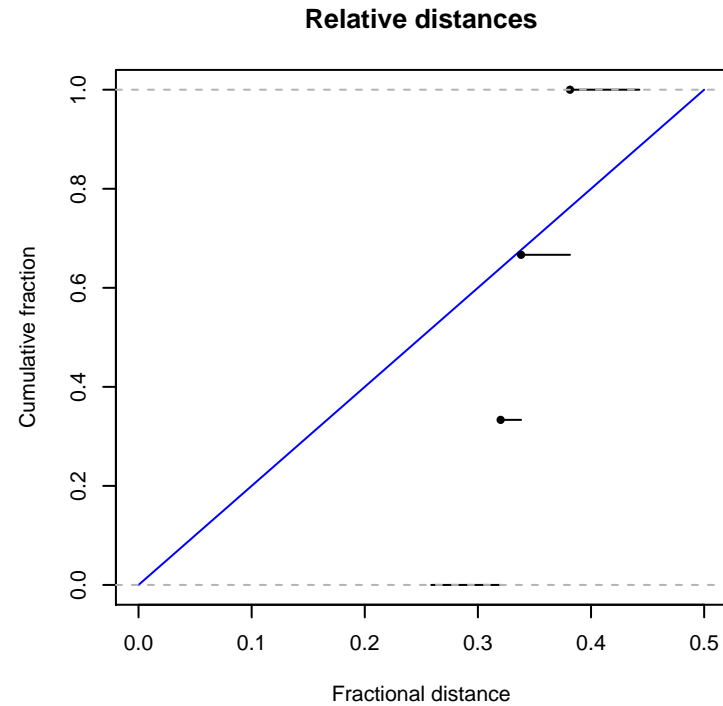
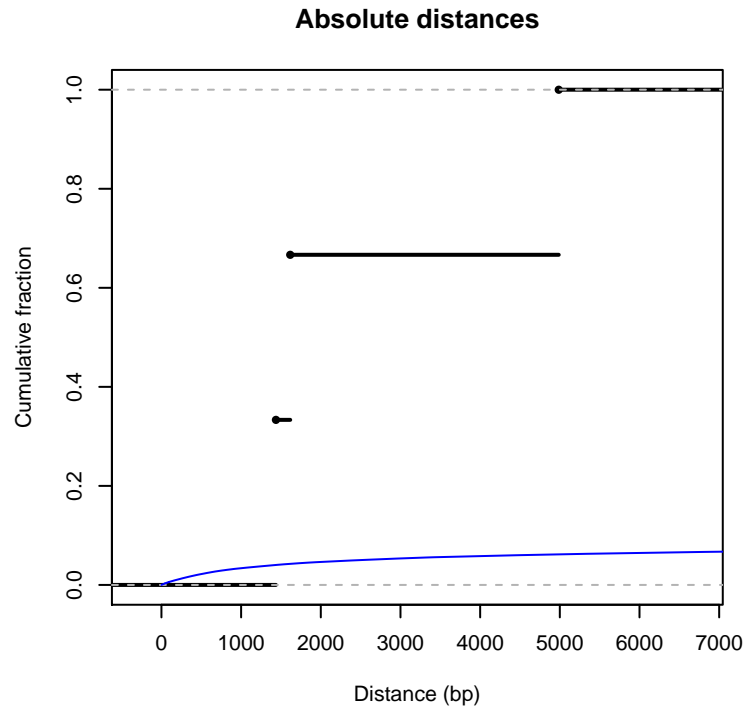
# pcontig\_092

Query population : 4  
Reference population : 61  
Relative Ks p-value : 0.874528  
Relative ecdf deviation area : 0.0461495  
Relative ecdf area correlation : -0.0198881  
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 : 0.08  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0595288  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



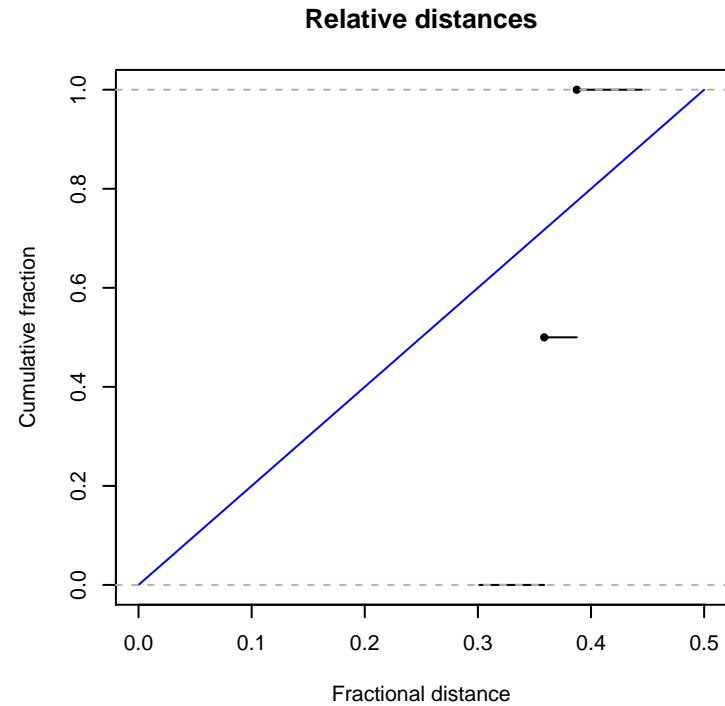
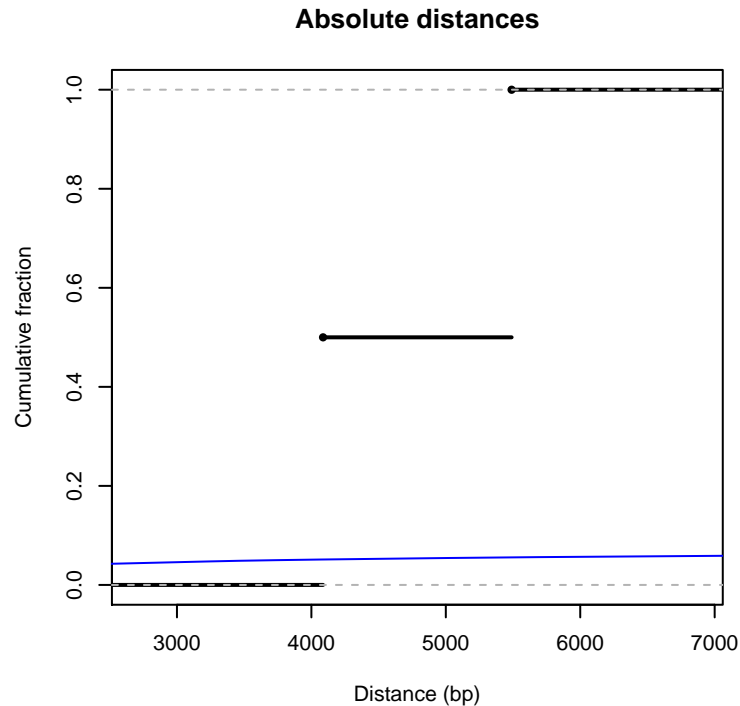
# pcontig\_095

Query population : 3  
Reference population : 120  
Relative Ks p-value : 0.0958696  
Relative ecdf deviation area : 0.124795  
Relative ecdf area correlation : -0.386204  
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 : 0.09  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0915915  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



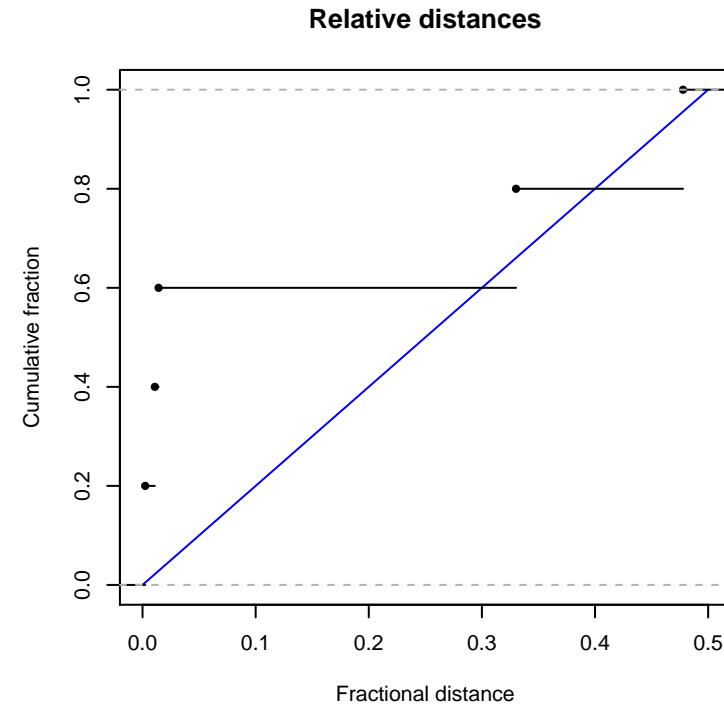
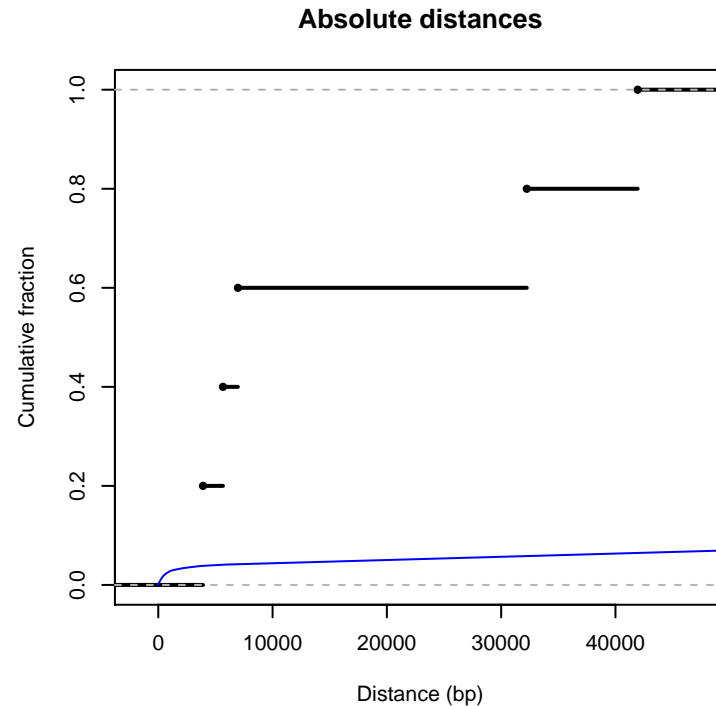
# pcontig\_097

Query population : 2  
Reference population : 109  
Relative Ks p-value : 0.159802  
Relative ecdf deviation area : 0.148128  
Relative ecdf area correlation : -0.492138  
Relative ecdf deviation area p-value : 0.21  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.1  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0605917  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_100

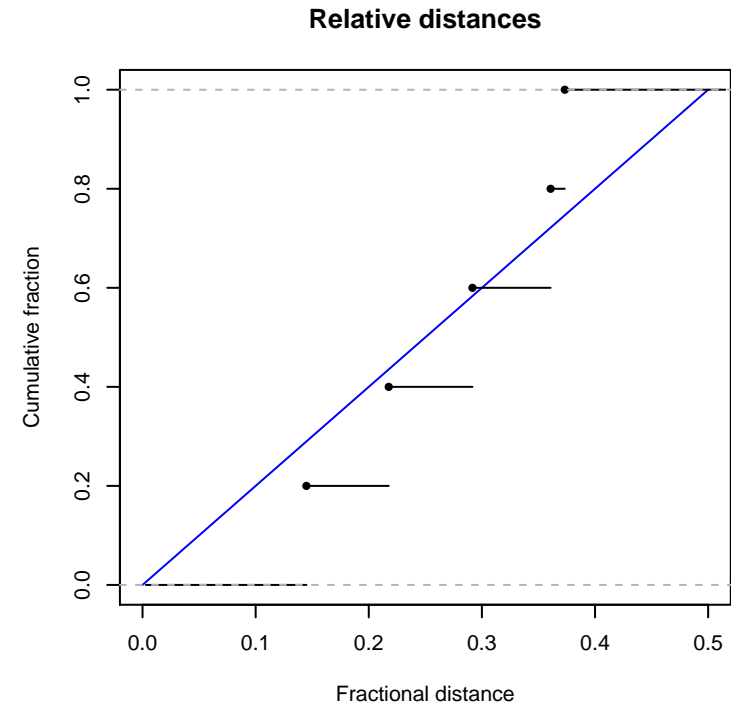
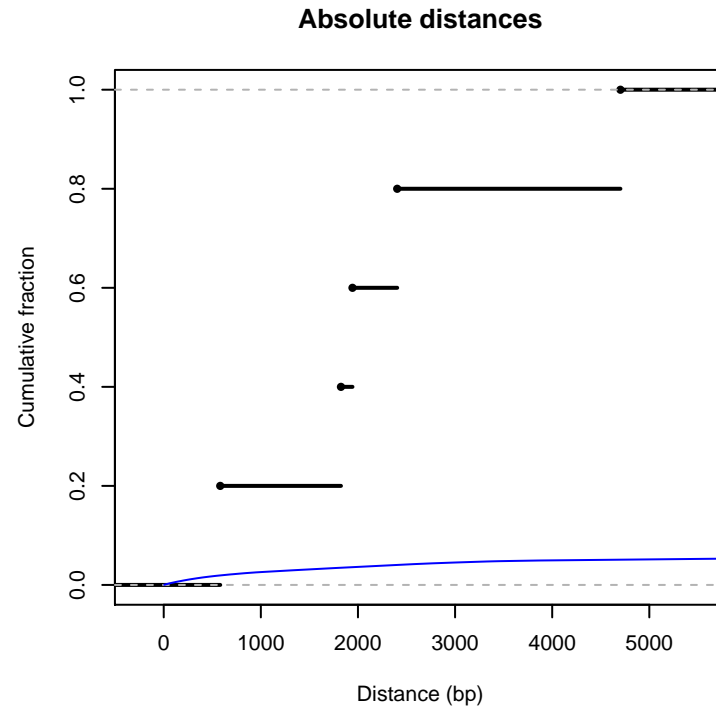
Query population : 5  
Reference population : 102  
Relative Ks p-value : 0.0446436  
Relative ecdf deviation area : 0.0970347  
Relative ecdf area correlation : 0.331664  
Relative ecdf deviation area p-value : 0.19  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.09  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.127843  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





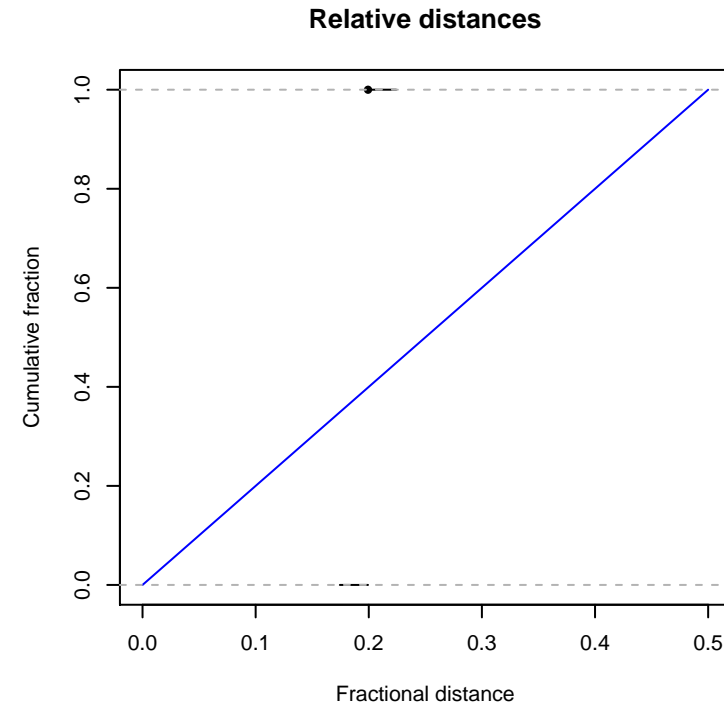
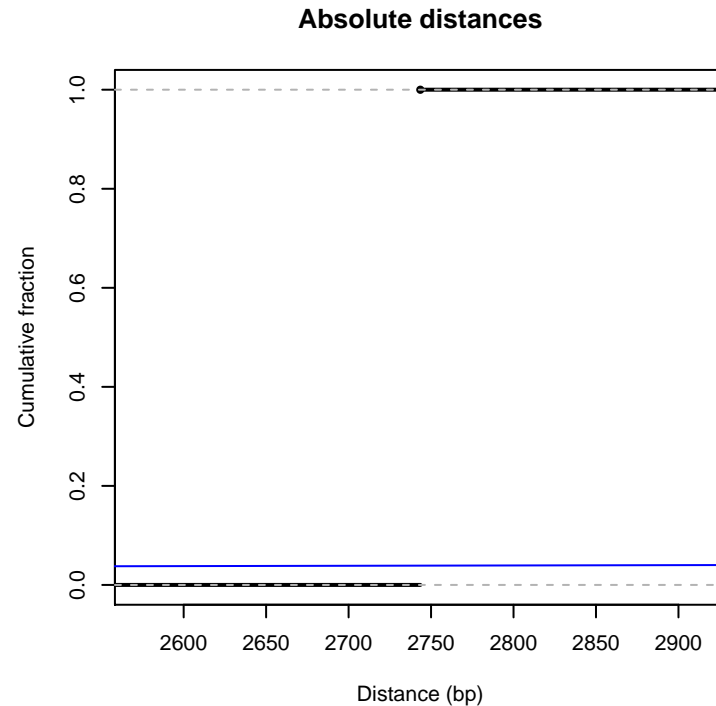
# pcontig\_103

Query population : 5  
Reference population : 89  
Relative Ks p-value : 0.704204  
Relative ecdf deviation area : 0.0614958  
Relative ecdf area correlation : -0.110507  
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 : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0881202  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



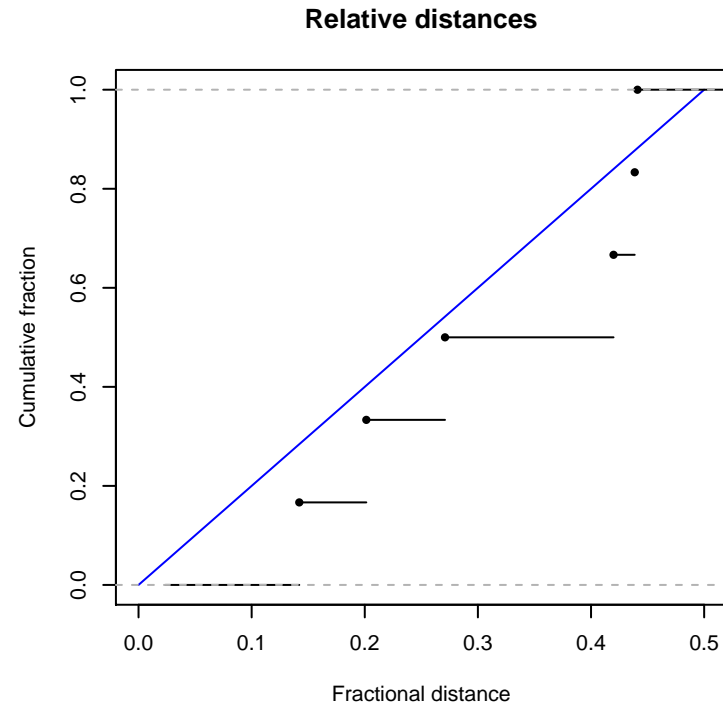
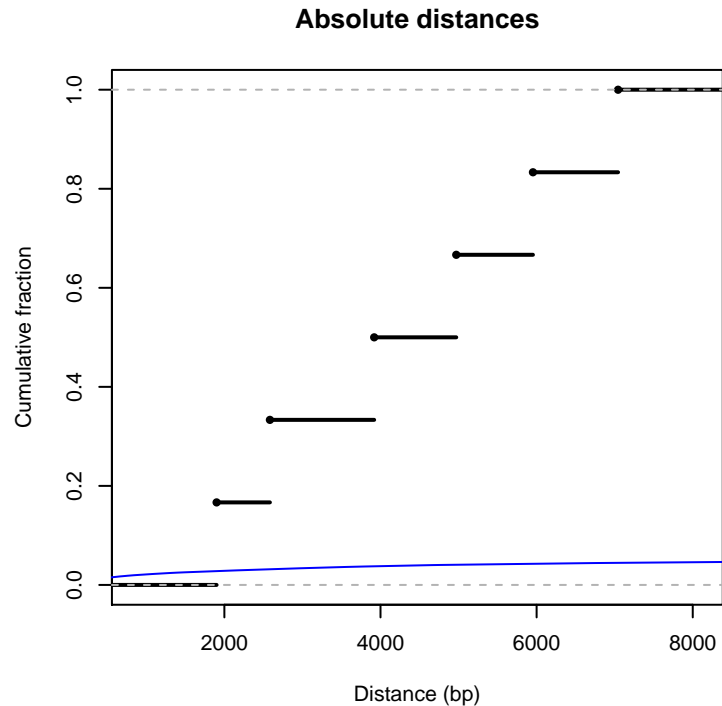
# pcontig\_104

Query population : 1  
Reference population : 91  
Relative Ks p-value : 0.797297  
Relative ecdf deviation area : 0.130145  
Relative ecdf area correlation : 0.202703  
Relative ecdf deviation area p-value : 0.77  
Scaled Absolute min. distance p-value : 0.04  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0221154  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



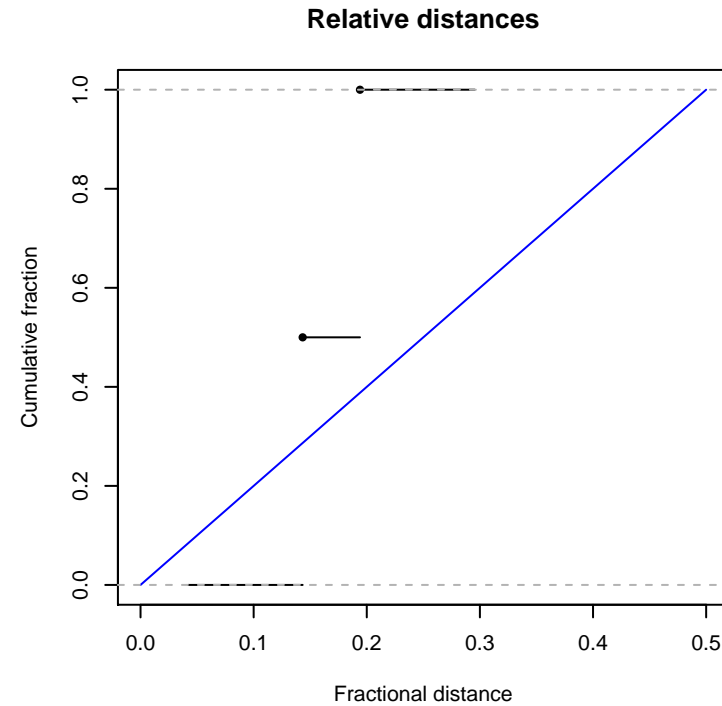
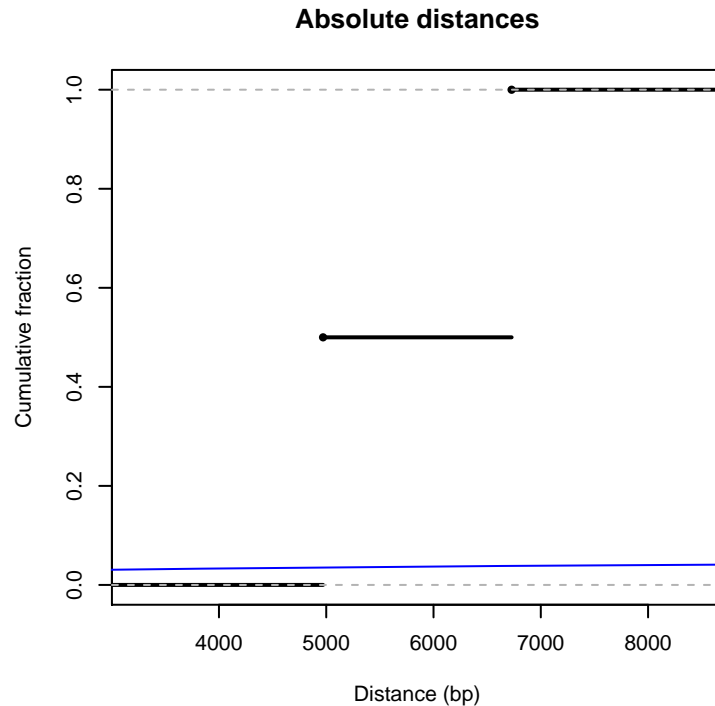
# pcontig\_106

Query population : 6  
Reference population : 75  
Relative Ks p-value : 0.400922  
Relative ecdf deviation area : 0.0761152  
Relative ecdf area correlation : -0.275973  
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 : 0.15  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0953419  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



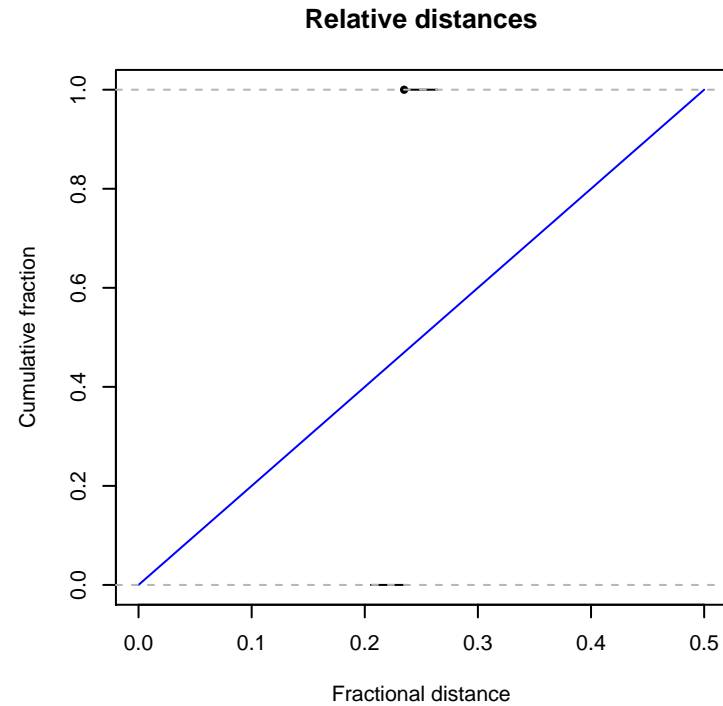
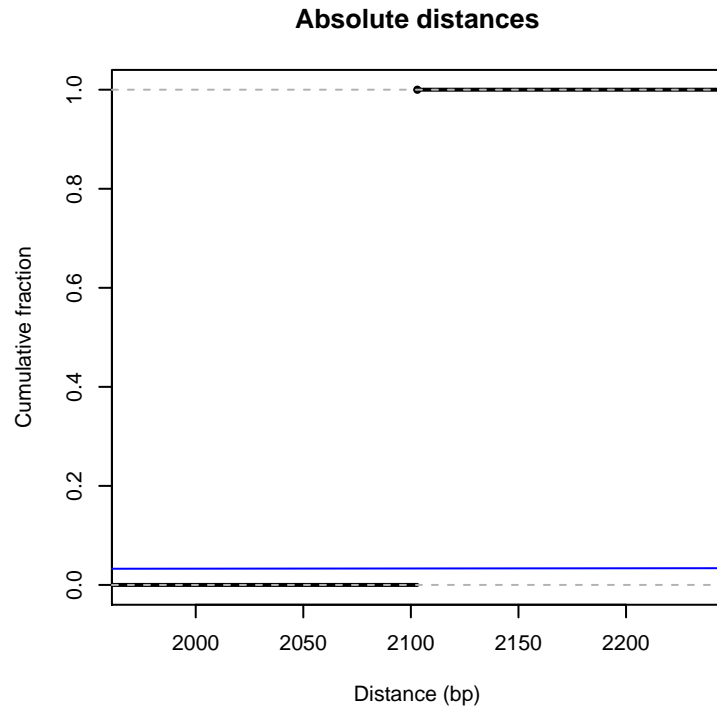
# pcontig\_110

Query population : 2  
Reference population : 85  
Relative Ks p-value : 0.301095  
Relative ecdf deviation area : 0.123064  
Relative ecdf area correlation : 0.325346  
Relative ecdf deviation area p-value : 0.29  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.07  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0375639  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



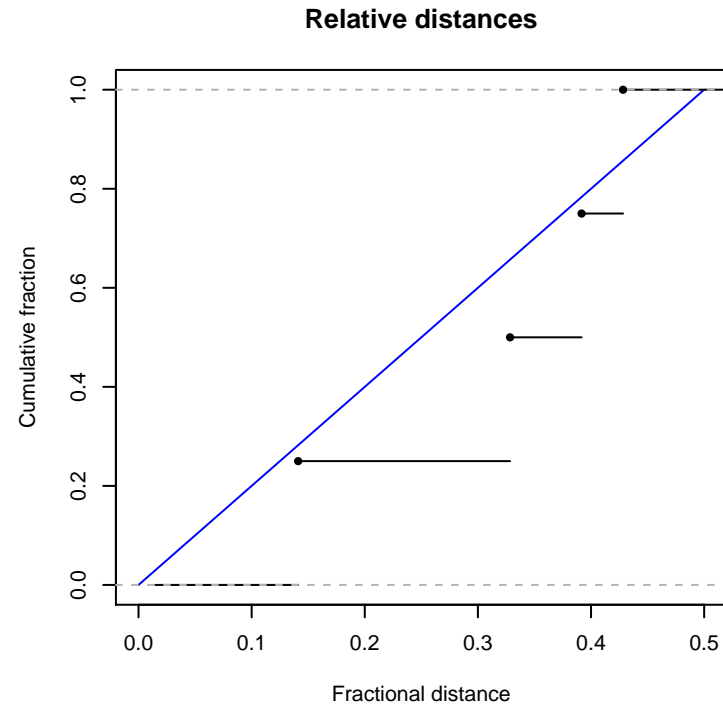
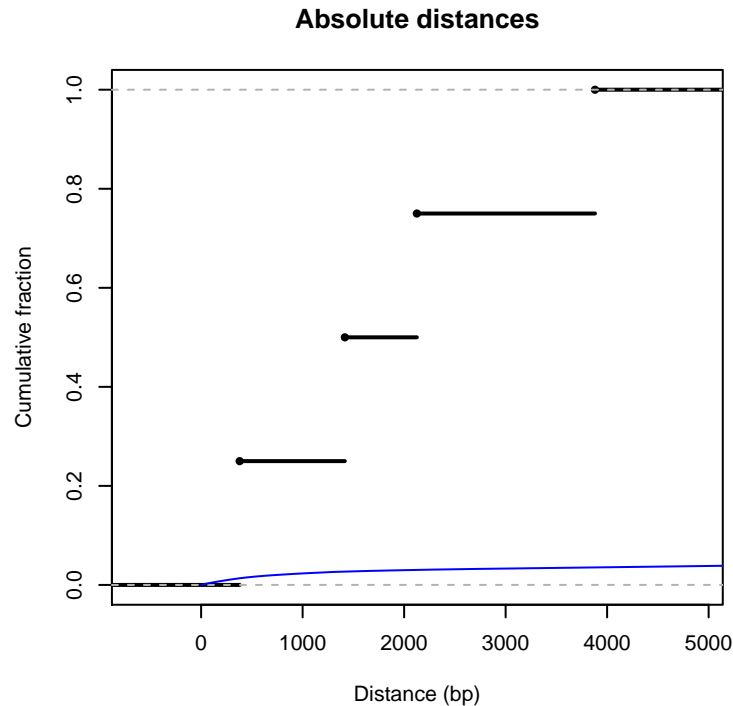
# pcontig\_112

Query population : 1  
Reference population : 98  
Relative Ks p-value : 0.939101  
Relative ecdf deviation area : 0.125551  
Relative ecdf area correlation : 0.0608987  
Relative ecdf deviation area p-value : 0.93  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0249034  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



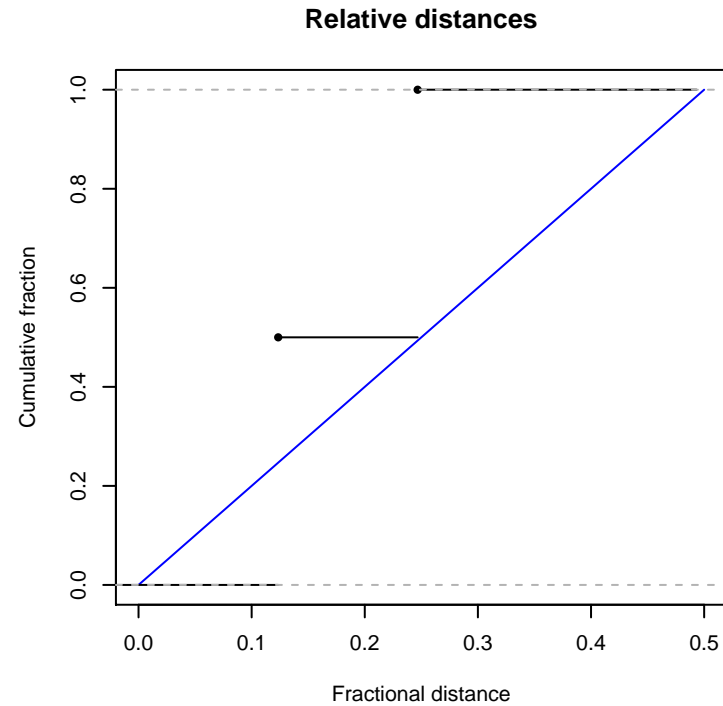
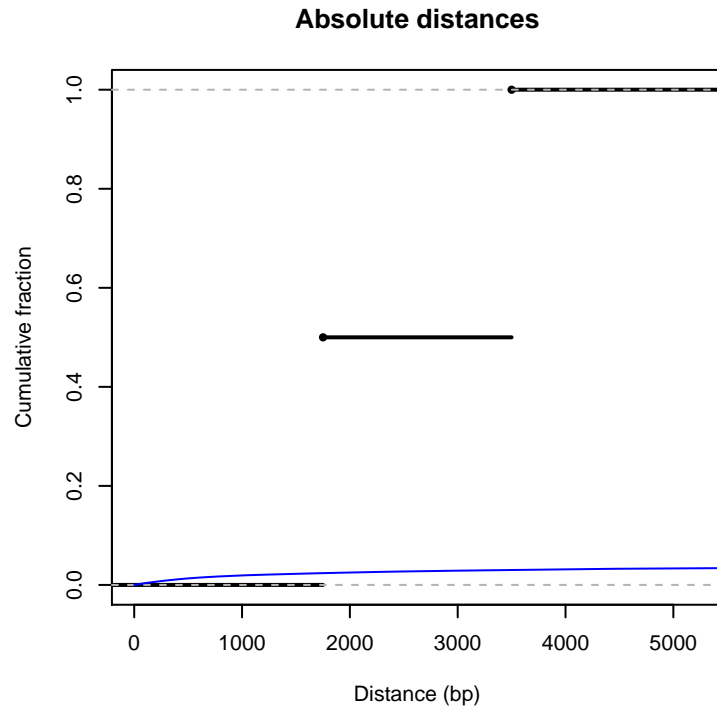
# pcontig\_115

Query population : 4  
Reference population : 100  
Relative Ks p-value : 0.415929  
Relative ecdf deviation area : 0.0828974  
Relative ecdf area correlation : -0.289482  
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 : 0.07  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00198326  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 13.5821



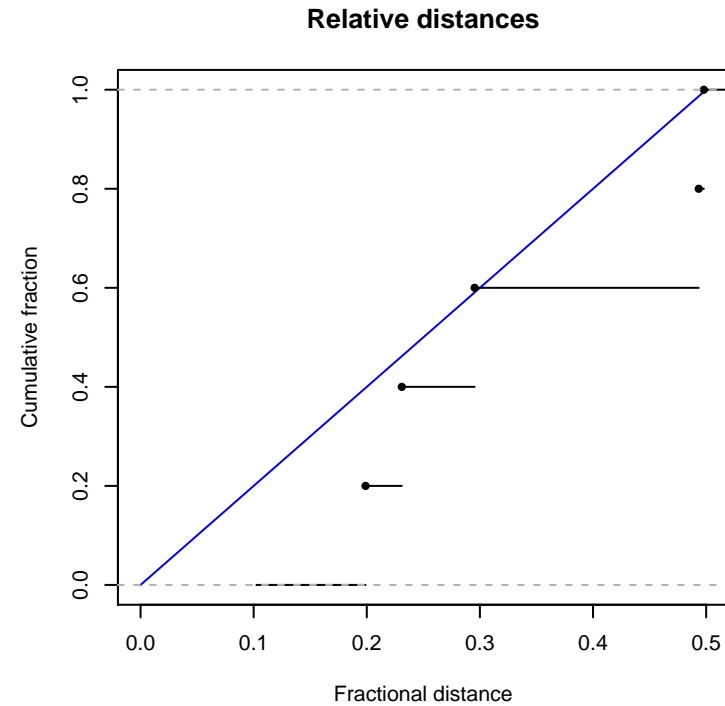
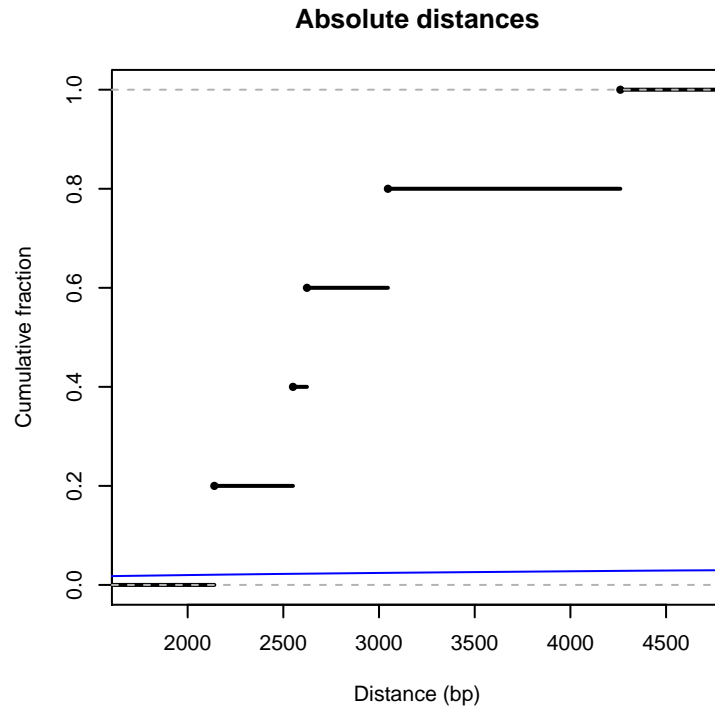
# pcontig\_120

Query population : 2  
Reference population : 64  
Relative Ks p-value : 0.487043  
Relative ecdf deviation area : 0.0951337  
Relative ecdf area correlation : 0.25957  
Relative ecdf deviation area p-value : 0.62  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0338838  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_130

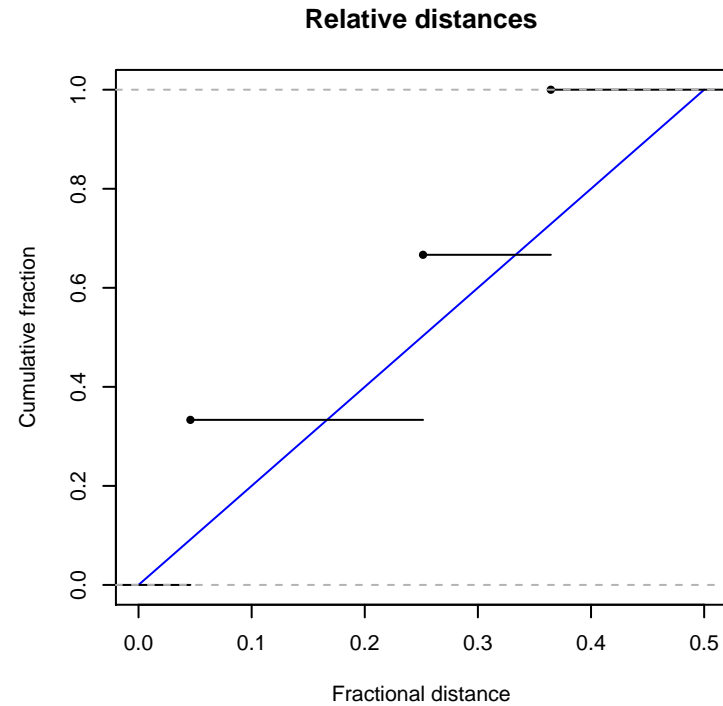
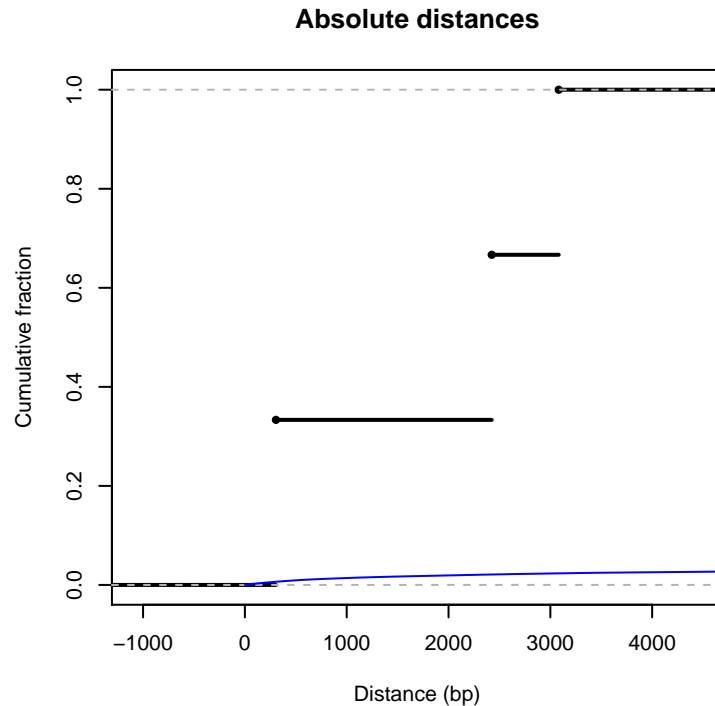
Query population : 5  
Reference population : 36  
Relative Ks p-value : 0.314678  
Relative ecdf deviation area : 0.0938061  
Relative ecdf area correlation : -0.373278  
Relative ecdf deviation area p-value : 0.19  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00471241  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 9.00978





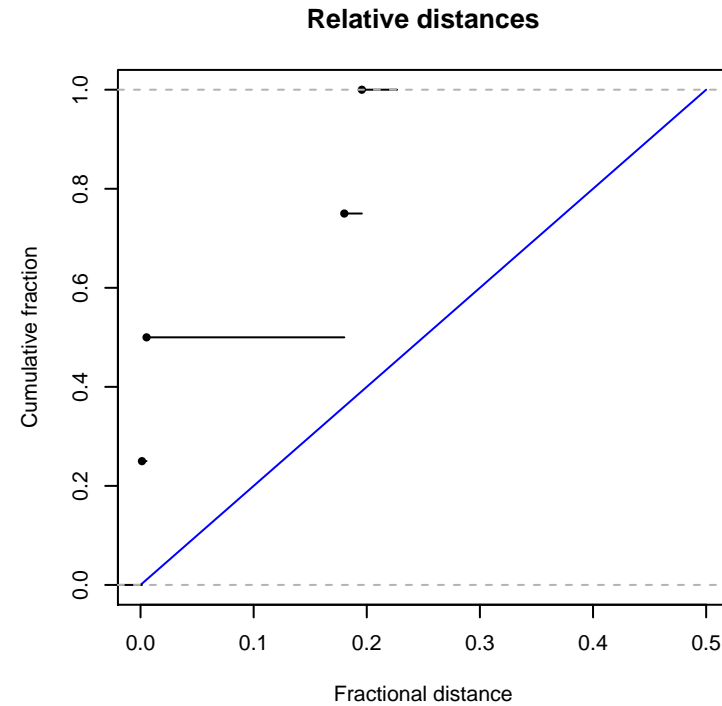
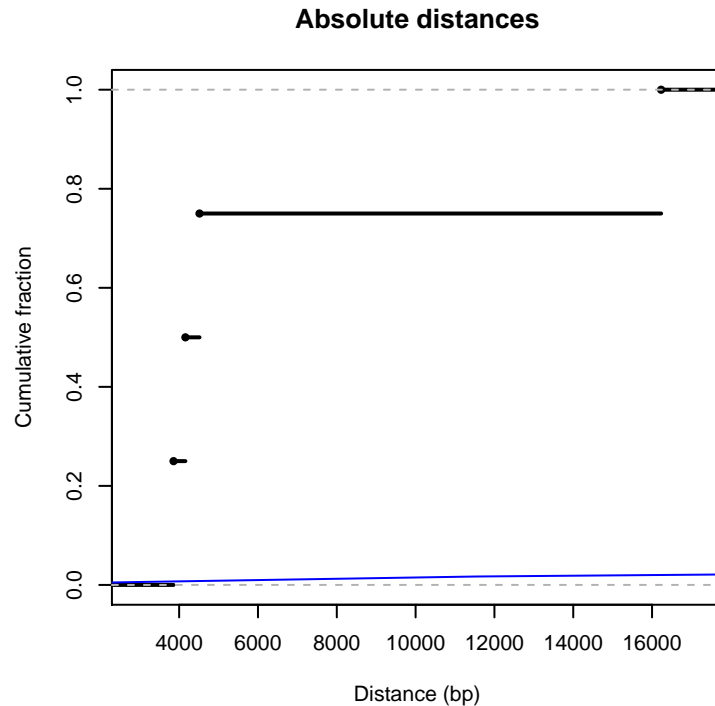
# pcontig\_138

Query population : 3  
Reference population : 48  
Relative Ks p-value : 0.945349  
Relative ecdf deviation area : 0.0496488  
Relative ecdf area correlation : 0.117582  
Relative ecdf deviation area p-value : 0.96  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.029173  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



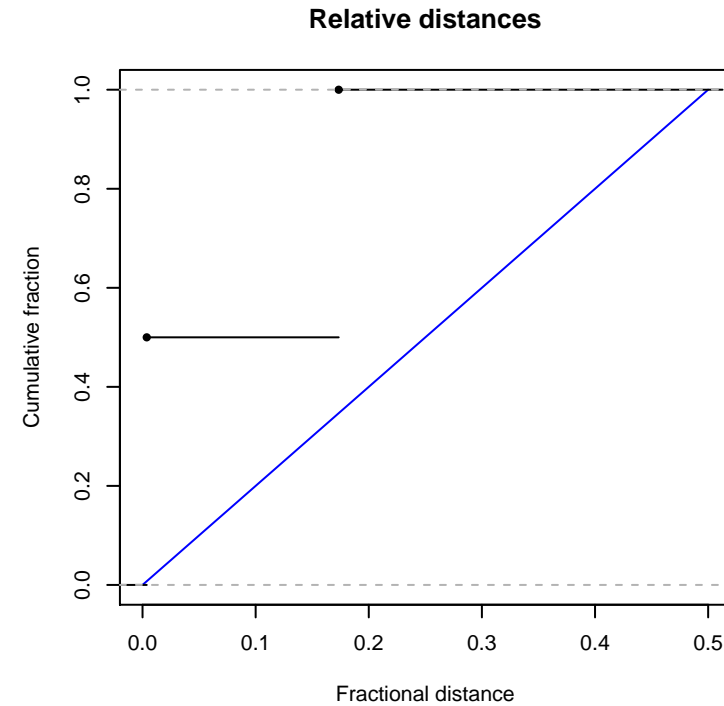
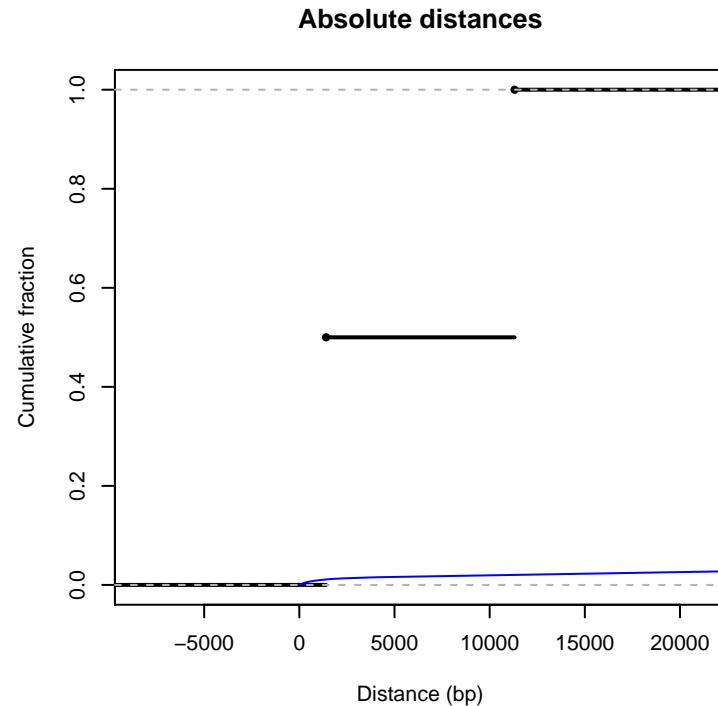
# pcontig\_146

Query population : 4  
Reference population : 8  
Relative Ks p-value : 0.0605835  
Relative ecdf deviation area : 0.154521  
Relative ecdf area correlation : 0.617642  
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 : 0.00572691  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



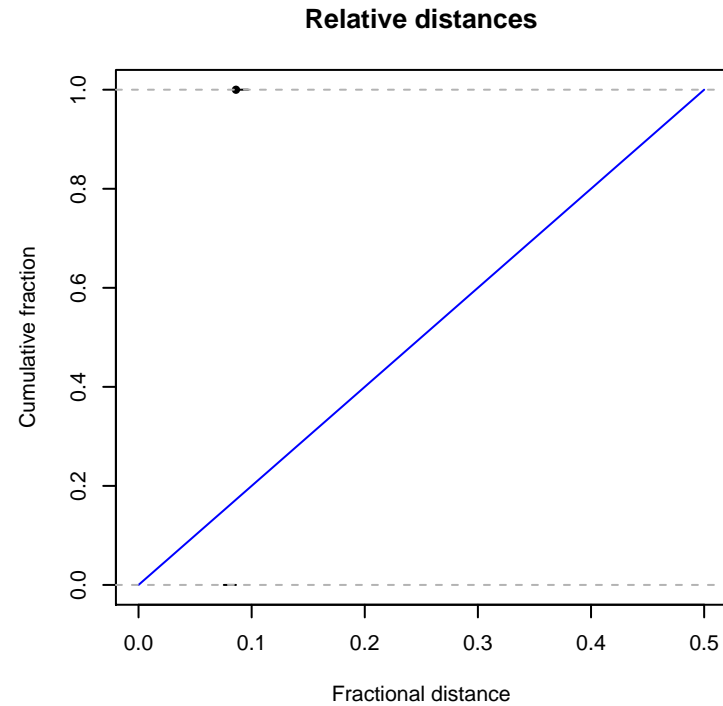
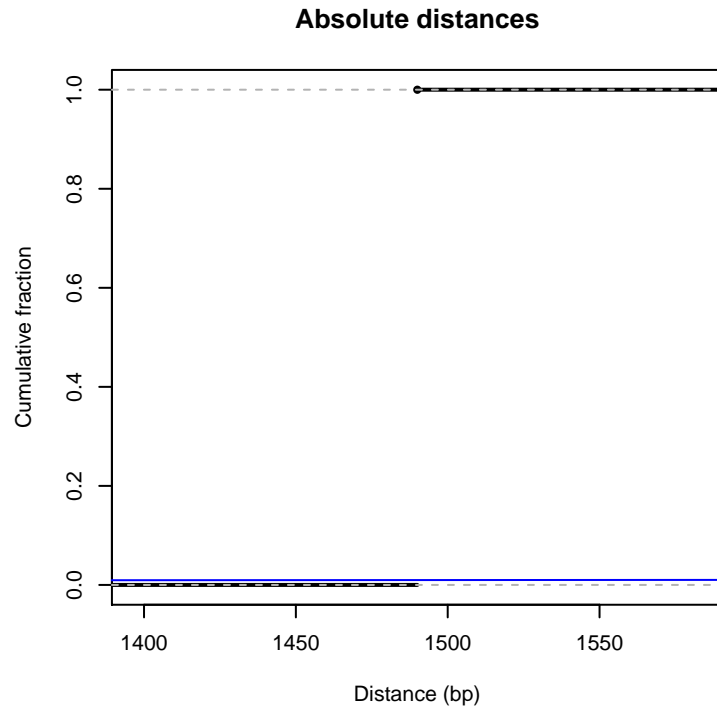
# pcontig\_147

Query population : 2  
Reference population : 30  
Relative Ks p-value : 0.240543  
Relative ecdf deviation area : 0.161854  
Relative ecdf area correlation : 0.64574  
Relative ecdf deviation area p-value : 0.17  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0149447  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



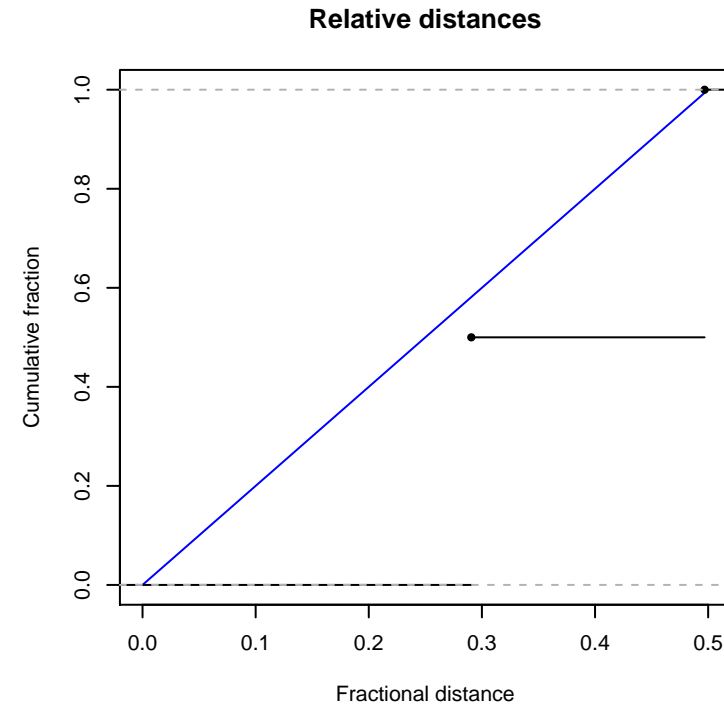
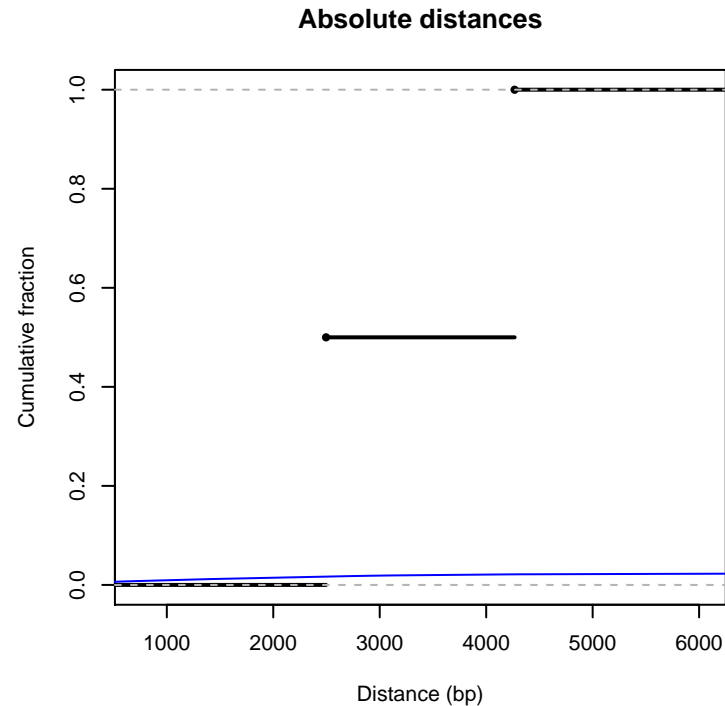
# pcontig\_148

Query population : 1  
Reference population : 32  
Relative Ks p-value : 0.344519  
Relative ecdf deviation area : 0.178833  
Relative ecdf area correlation : 0.655481  
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 : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00983411  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



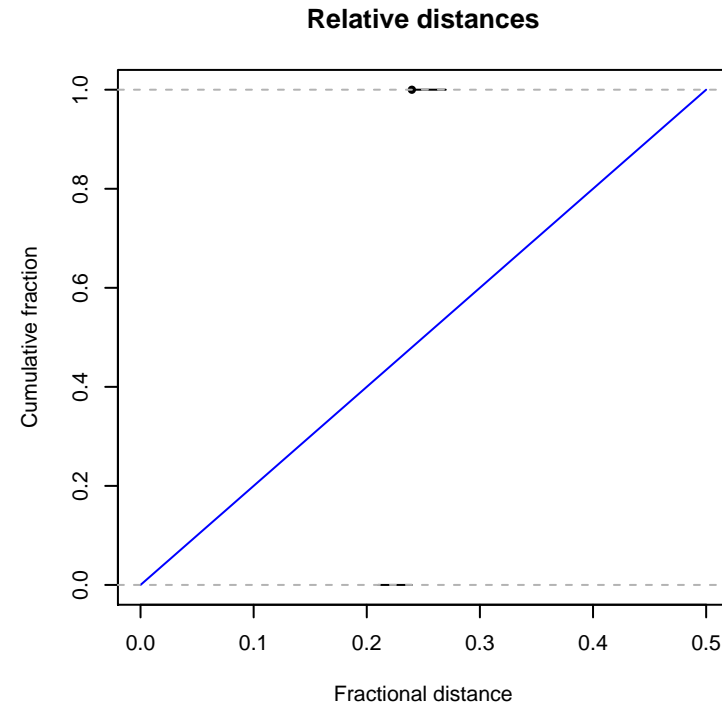
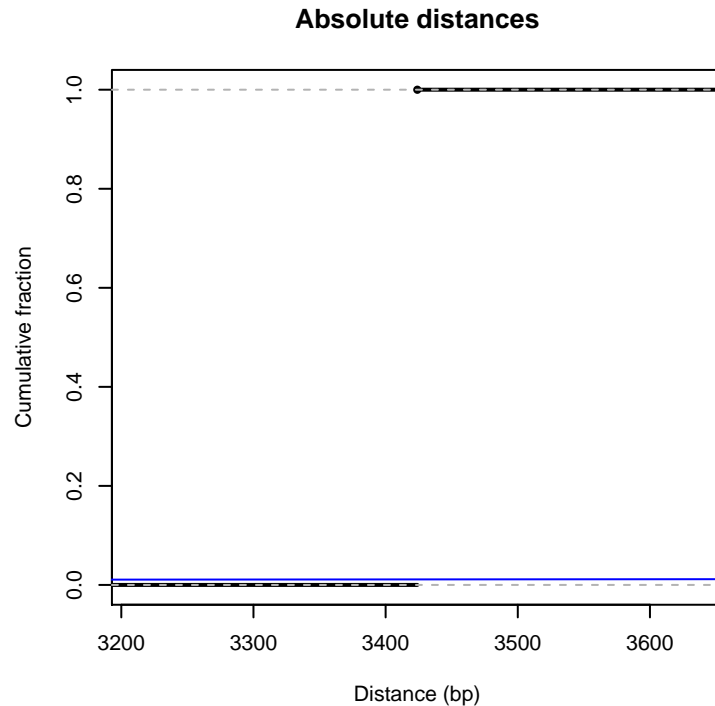
# pcontig\_157

Query population : 2  
Reference population : 33  
Relative Ks p-value : 0.350659  
Relative ecdf deviation area : 0.144056  
Relative ecdf area correlation : -0.574988  
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 : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0299333  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



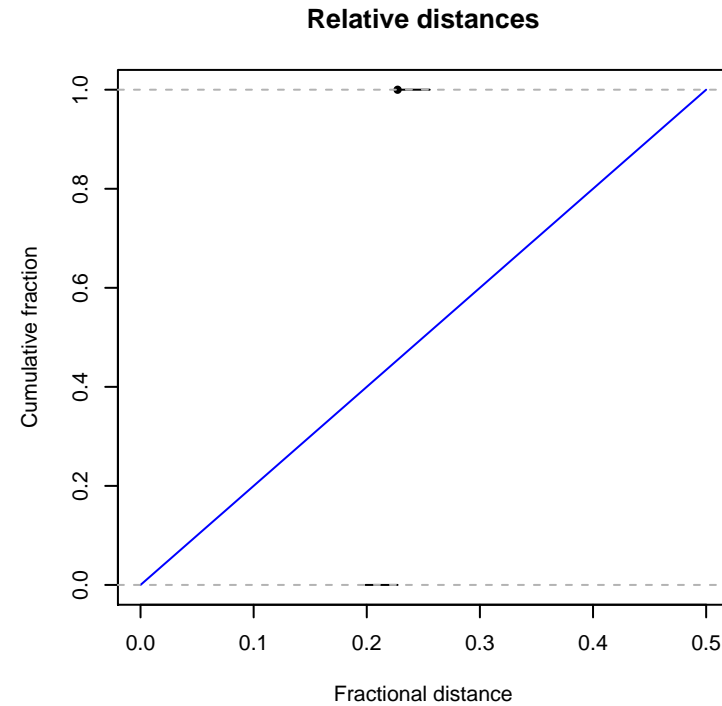
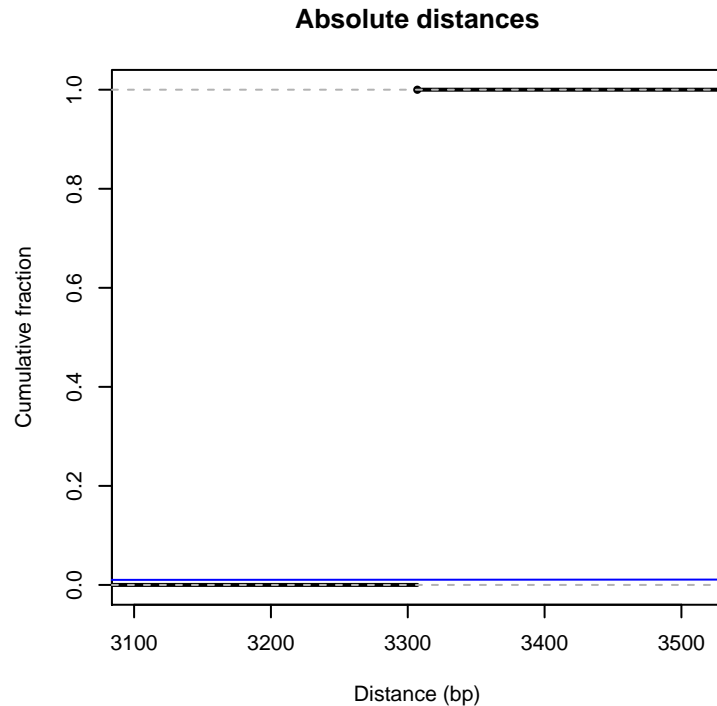
# pcontig\_166

Query population : 1  
Reference population : 17  
Relative Ks p-value : 0.95944  
Relative ecdf deviation area : 0.125232  
Relative ecdf area correlation : 0.0405604  
Relative ecdf deviation area p-value : 0.97  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00543856  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



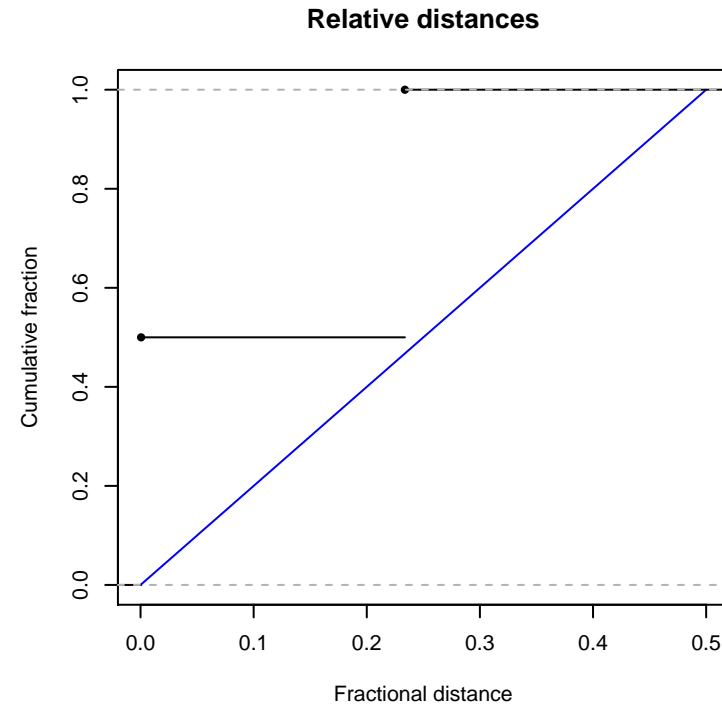
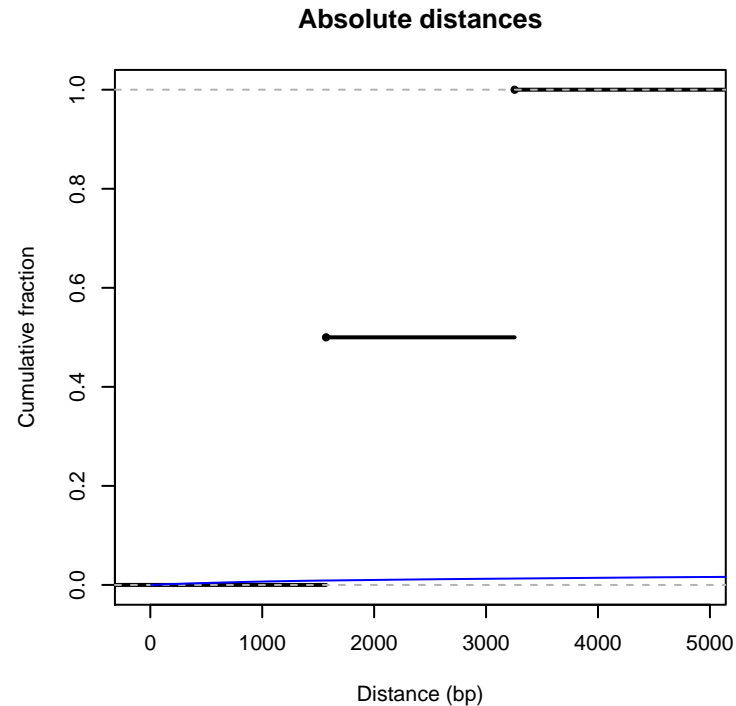
# pcontig\_174

Query population : 1  
Reference population : 34  
Relative Ks p-value : 0.908985  
Relative ecdf deviation area : 0.126099  
Relative ecdf area correlation : 0.0910153  
Relative ecdf deviation area p-value : 0.92  
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 : 0.00672693  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_179

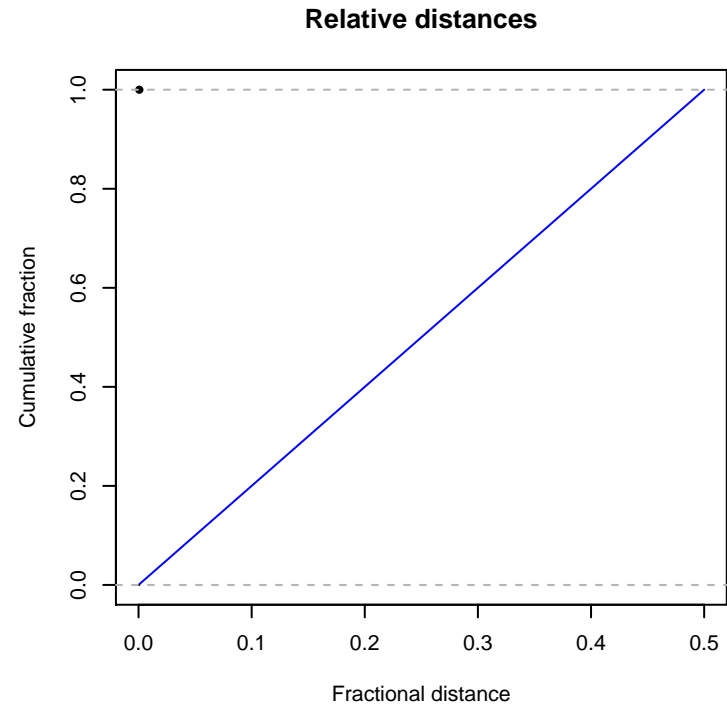
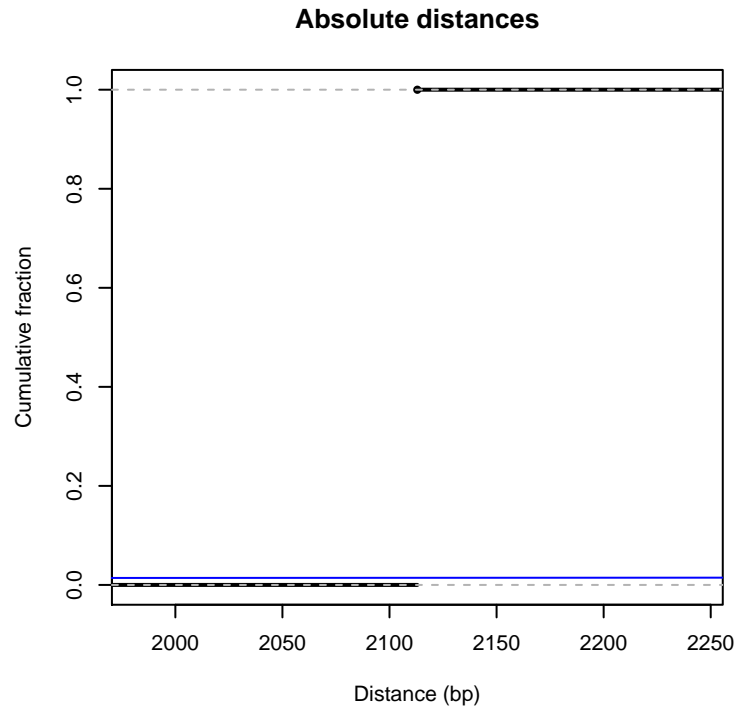
Query population : 2  
Reference population : 19  
Relative Ks p-value : 0.436933  
Relative ecdf deviation area : 0.133214  
Relative ecdf area correlation : 0.531559  
Relative ecdf deviation area p-value : 0.25  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00921692  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





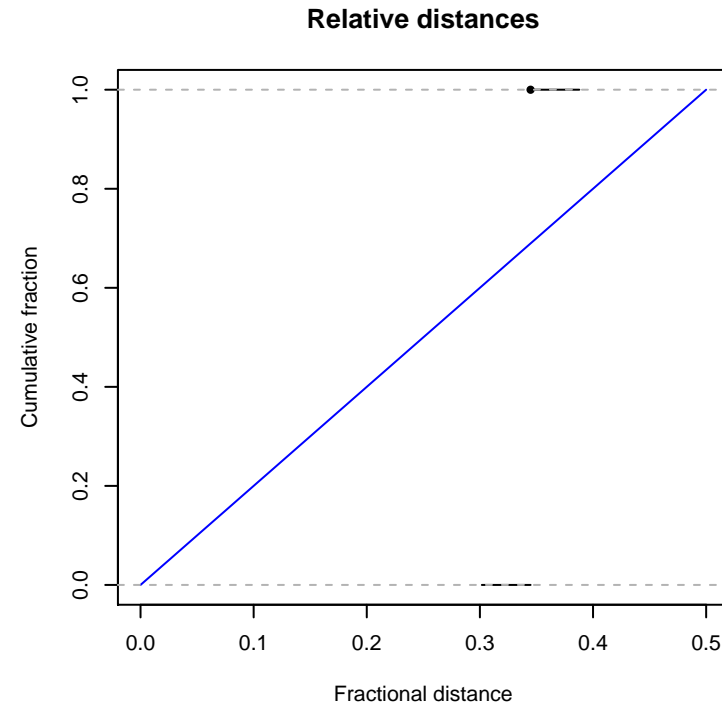
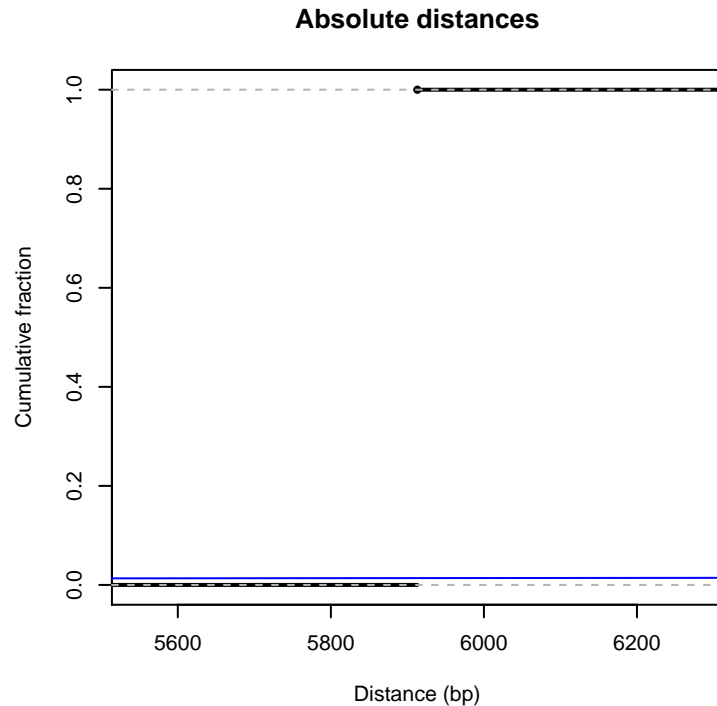
# pcontig\_181

Query population : 1  
Reference population : 33  
Relative Ks p-value : 0.00278953  
Relative ecdf deviation area : 0.25  
Relative ecdf area correlation : 0.99721  
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 : 0.012077  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



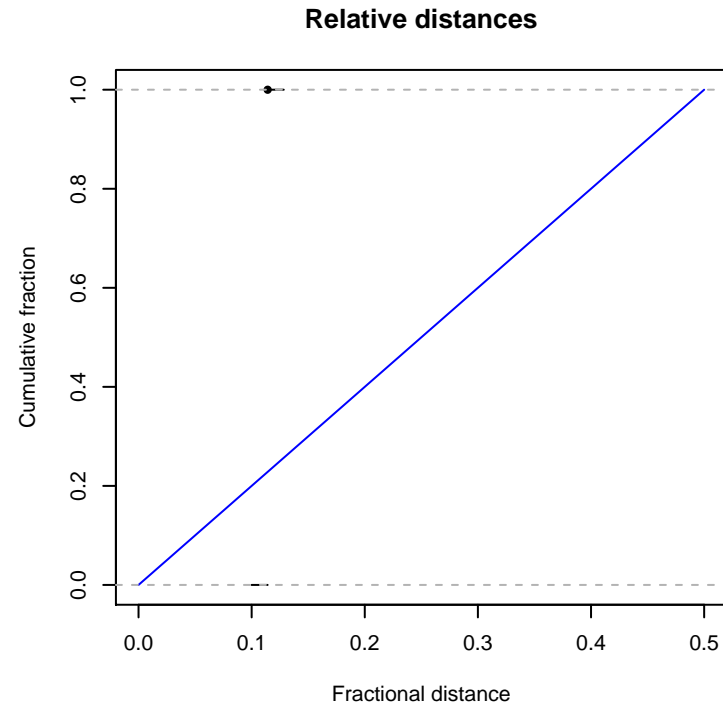
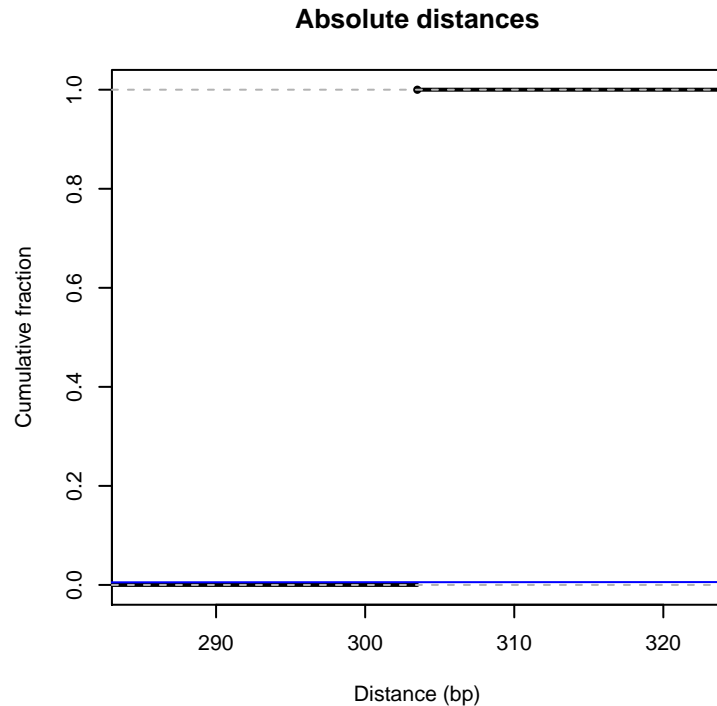
## pcontig\_186

Query population : 1  
Reference population : 17  
Relative Ks p-value : 0.620794  
Relative ecdf deviation area : 0.142838  
Relative ecdf area correlation : -0.379206  
Relative ecdf deviation area p-value : 0.66  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00379644  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



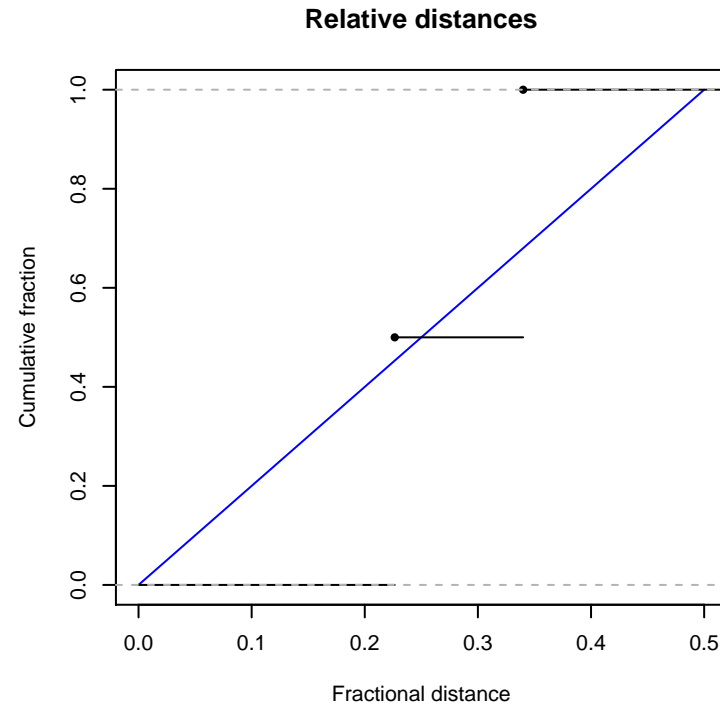
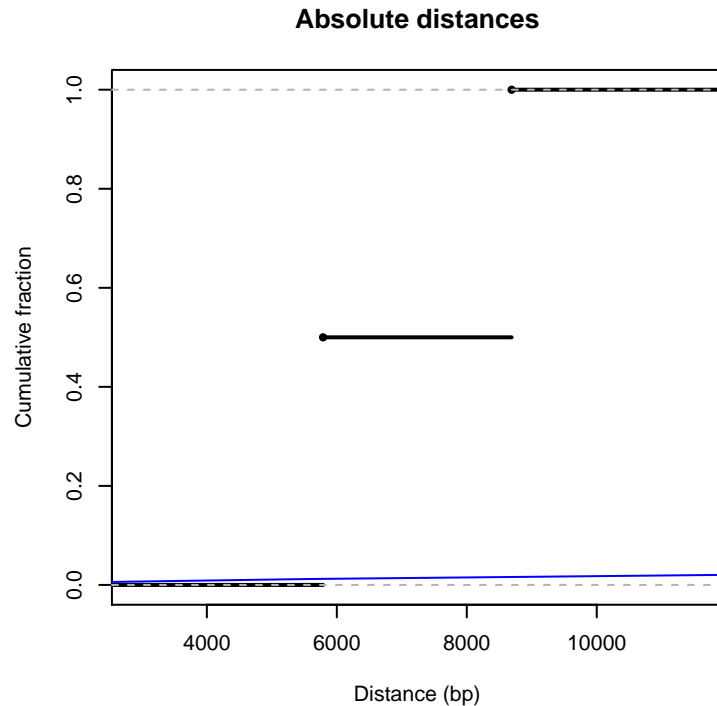
# pcontig\_187

Query population : 1  
Reference population : 42  
Relative Ks p-value : 0.456563  
Relative ecdf deviation area : 0.161405  
Relative ecdf area correlation : 0.543437  
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  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 88.8166



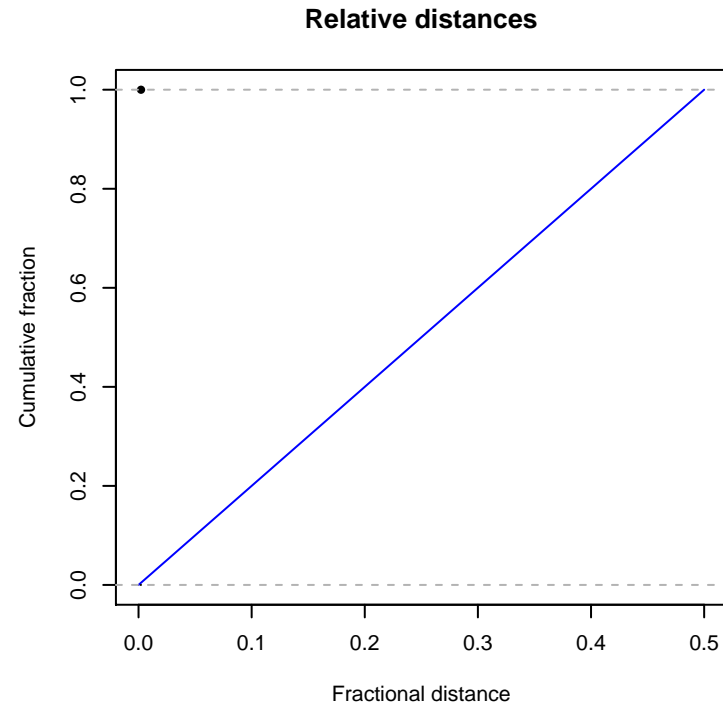
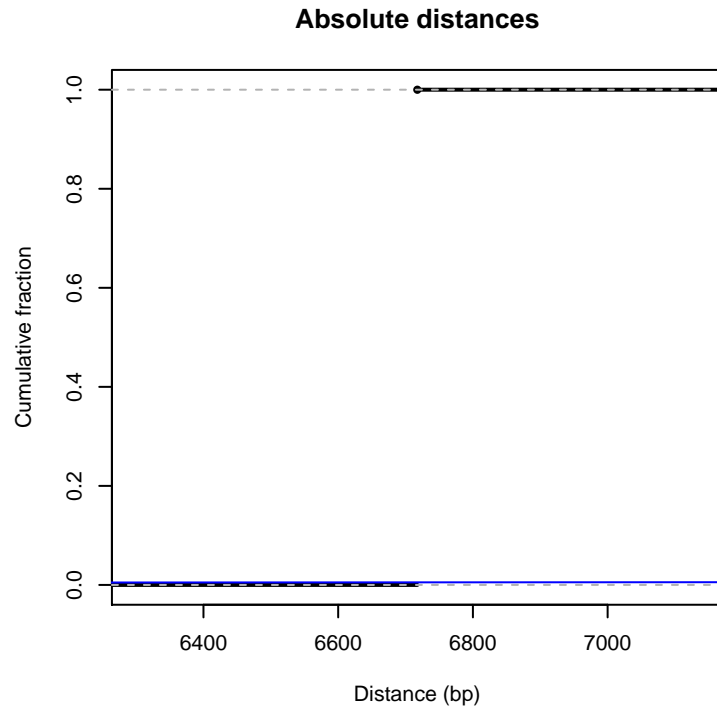
# pcontig\_188

Query population : 2  
Reference population : 9  
Relative Ks p-value : 0.670484  
Relative ecdf deviation area : 0.0853818  
Relative ecdf area correlation : -0.132947  
Relative ecdf deviation area p-value : 0.76  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00351089  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



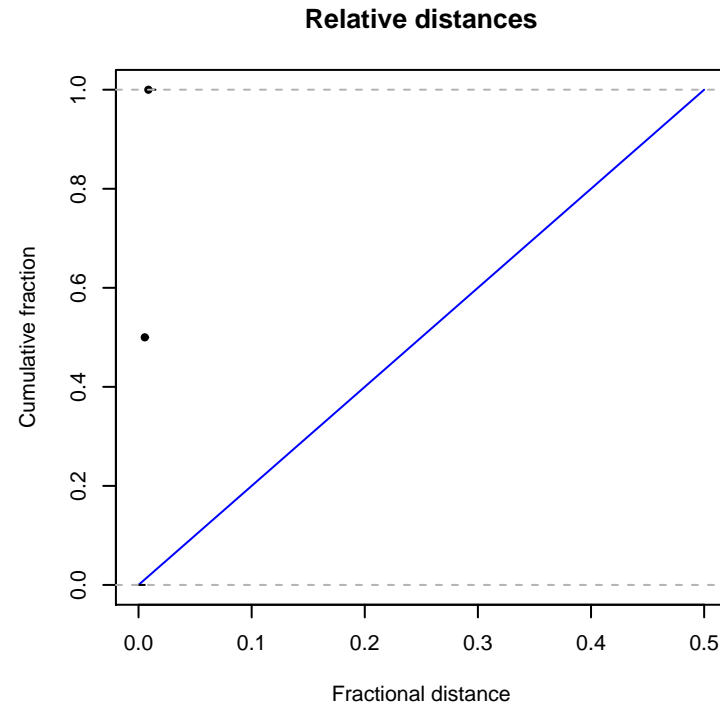
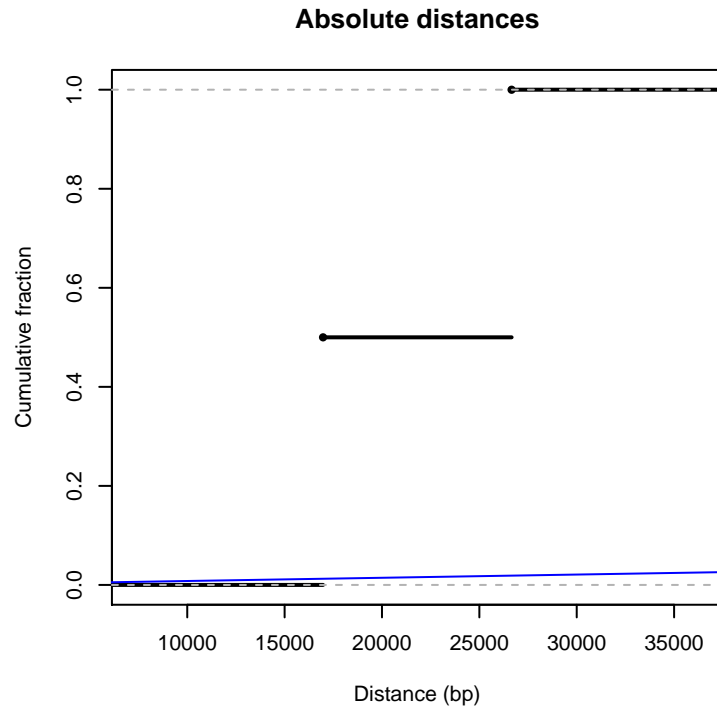
## pcontig\_189

Query population : 1  
Reference population : 2  
Relative Ks p-value : 0.00875188  
Relative ecdf deviation area : 0.246924  
Relative ecdf area correlation : 0.991248  
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 : 0.000279217  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



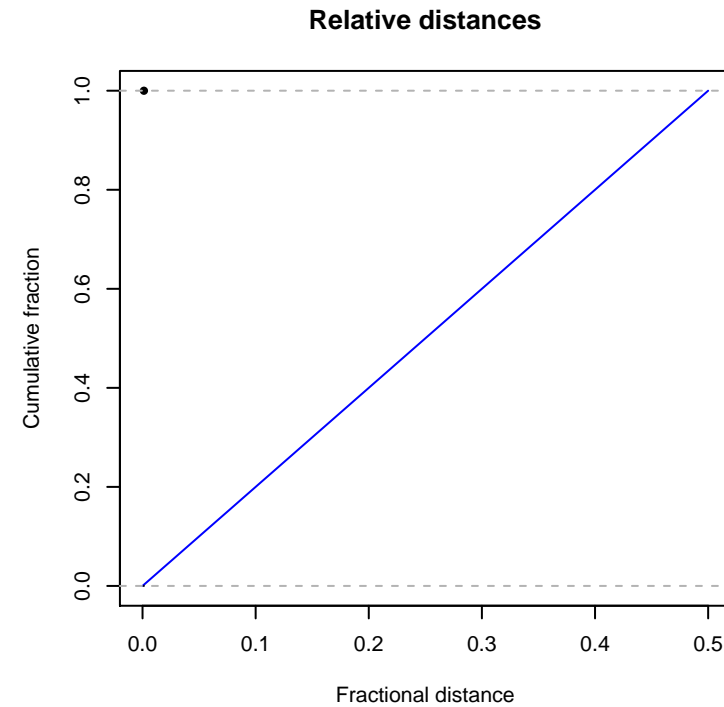
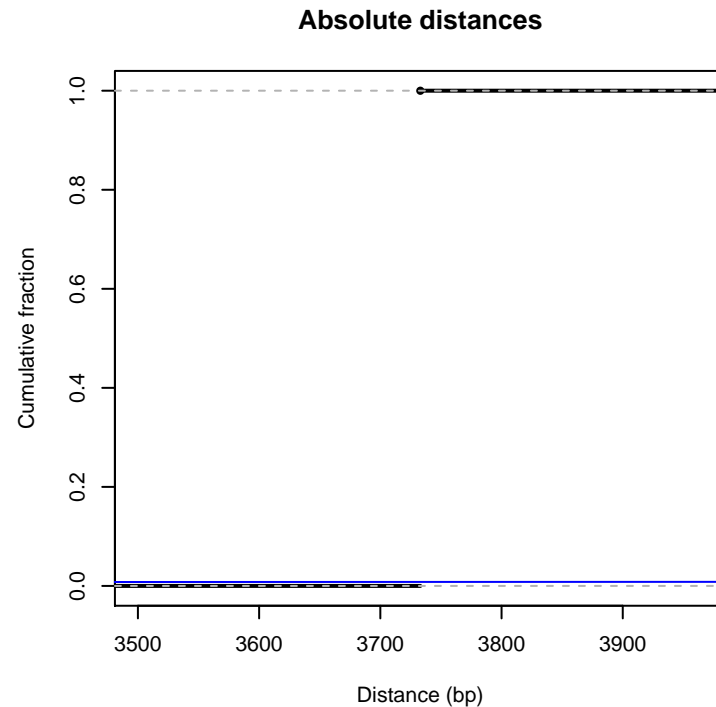
# pcontig\_203

Query population : 2  
Reference population : 2  
Relative Ks p-value : 0.000603754  
Relative ecdf deviation area : 0.24322  
Relative ecdf area correlation : 0.971561  
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 : 0.00170192  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



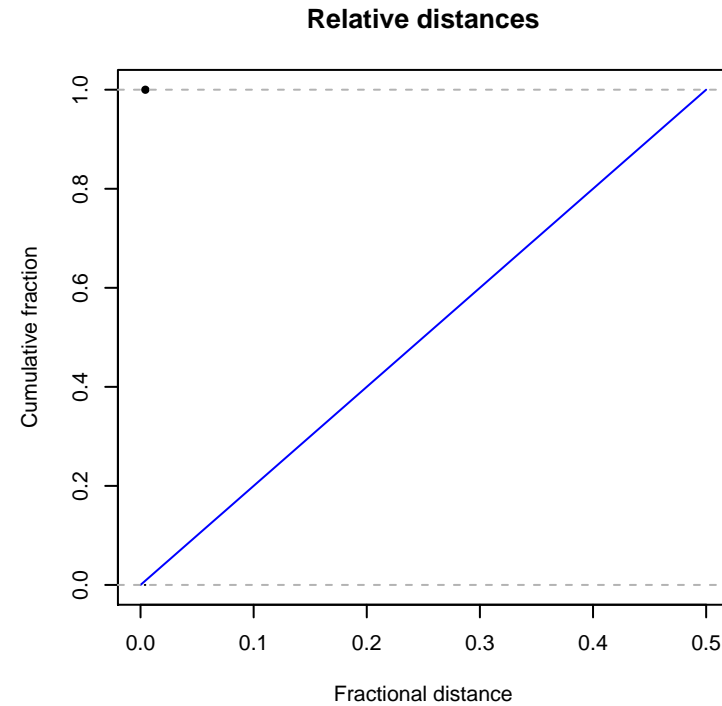
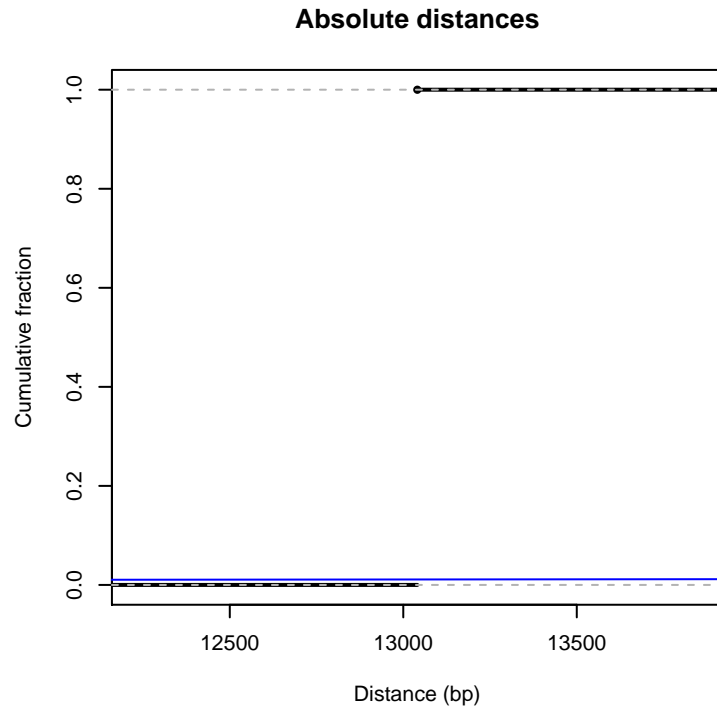
# pcontig\_218

Query population : 1  
Reference population : 33  
Relative Ks p-value : 0.00488699  
Relative ecdf deviation area : 0.24927  
Relative ecdf area correlation : 0.995113  
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 : 0.00555311  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_233

Query population : 1  
Reference population : 7  
Relative Ks p-value : 0.0170183  
Relative ecdf deviation area : 0.244619  
Relative ecdf area correlation : 0.982982  
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 : 0.00359305  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





# All Chromosomes

Query population : 1444  
Reference population : 47897  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0414726  
Relative ecdf area correlation : -0.165539  
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 : 1.38518e-10  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0.54206

