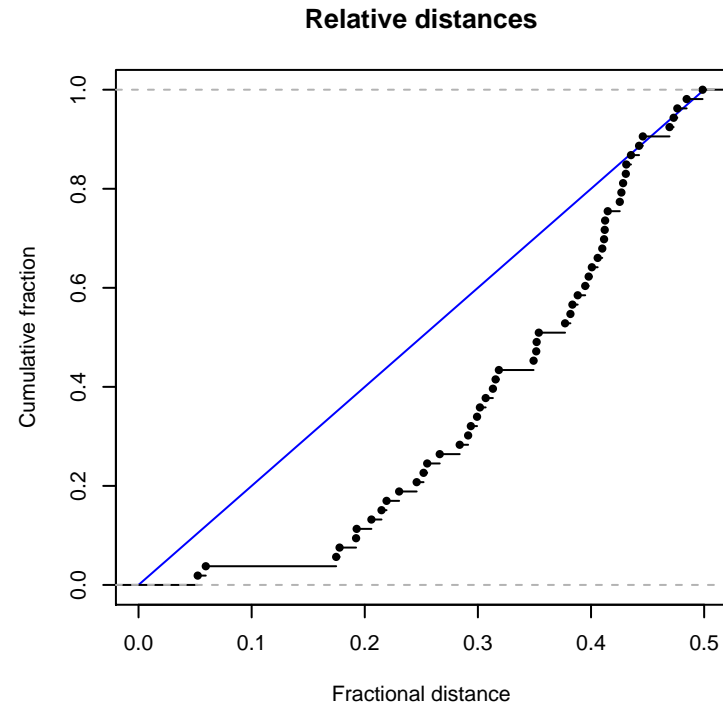
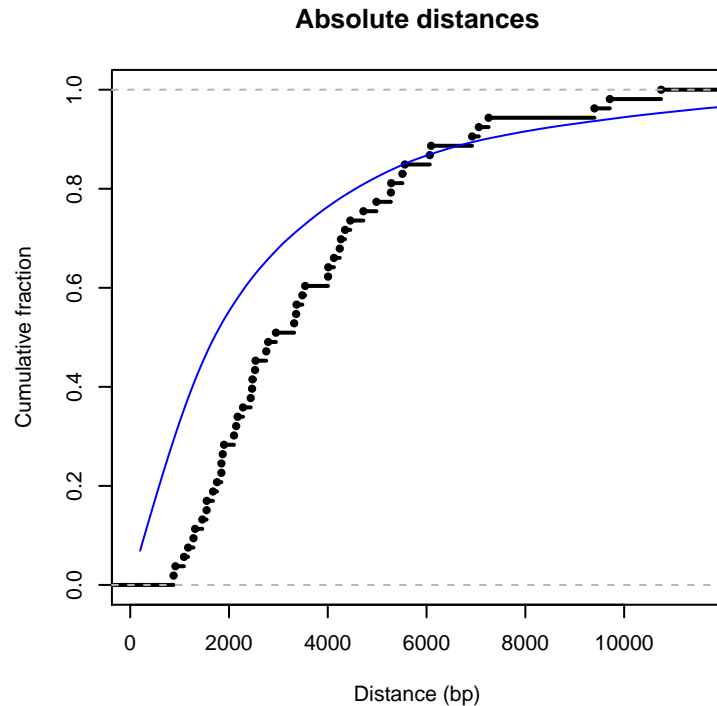


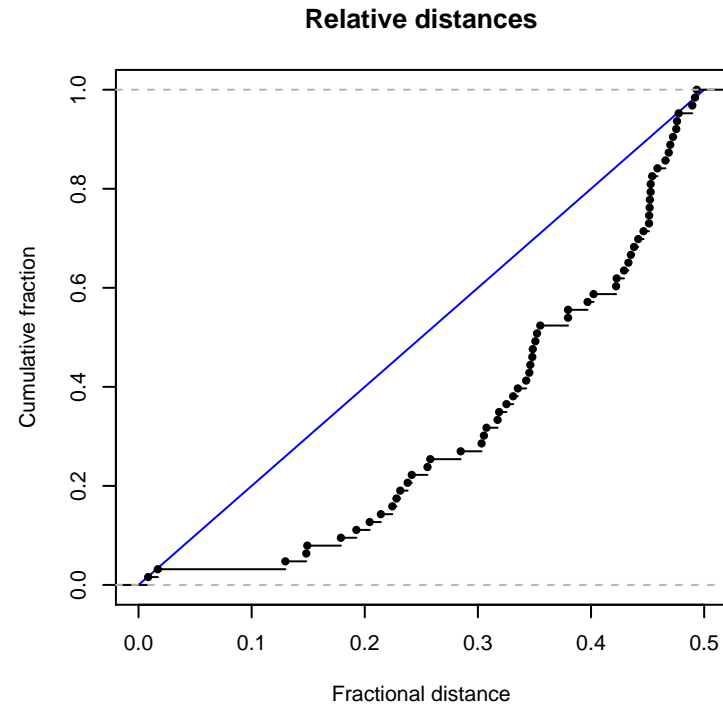
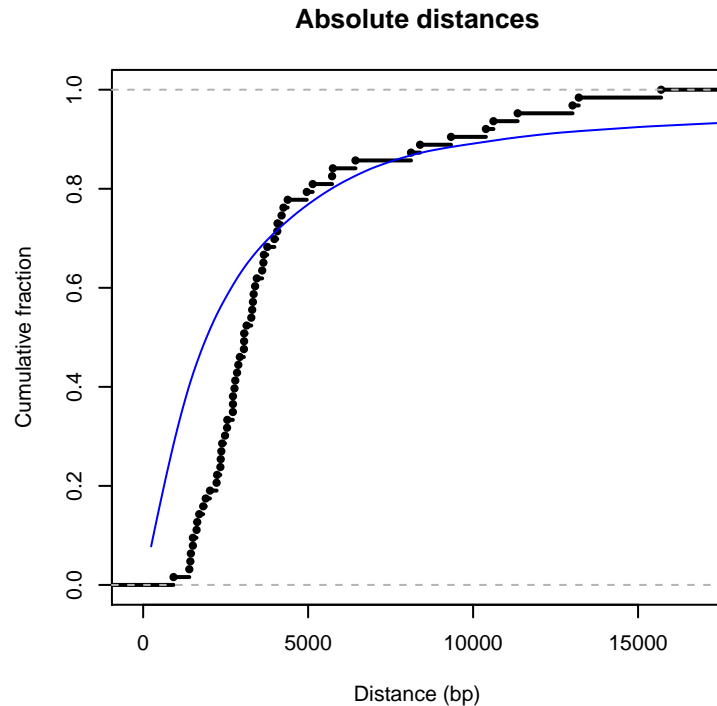
# pcontig\_000

Query population : 53  
Reference population : 530  
Relative Ks p-value : 4.49992e-05  
Relative ecdf deviation area : 0.0881983  
Relative ecdf area correlation : -0.353103  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : 0.15  
Scaled Absolute min. lower tail : FALSE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 2.42319e-07  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



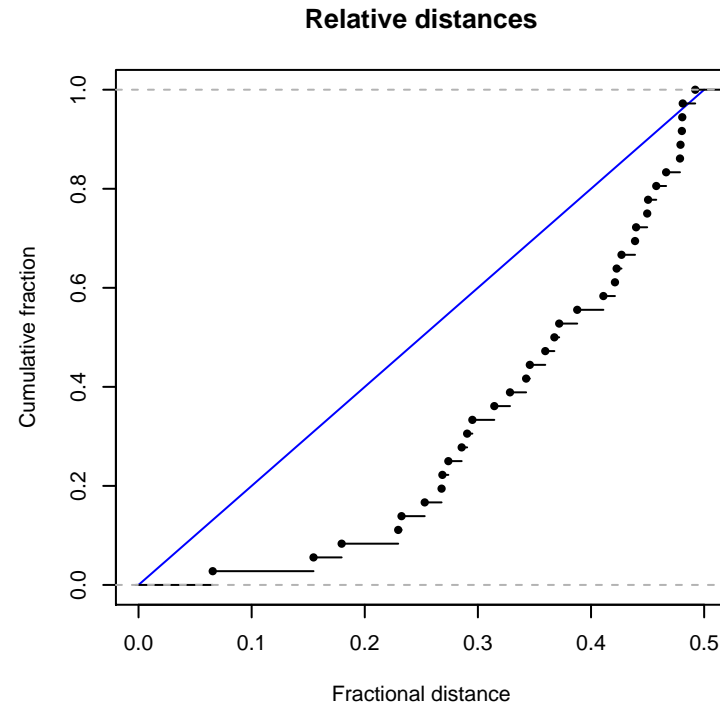
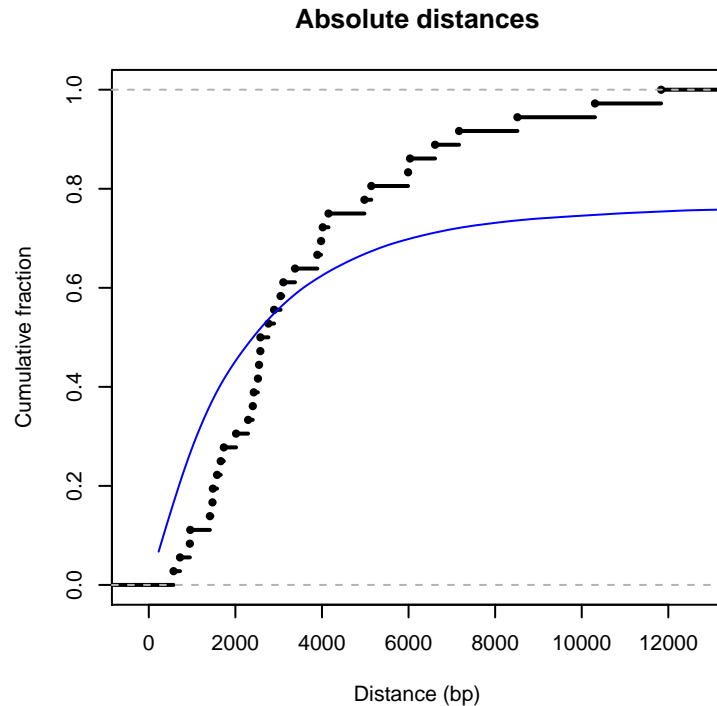
# pcontig\_001

Query population : 63  
Reference population : 495  
Relative Ks p-value :  $7.16461\text{e-}07$   
Relative ecdf deviation area : 0.0990594  
Relative ecdf area correlation :  $-0.39491$   
Relative ecdf deviation area p-value :  $<0.01$   
Scaled Absolute min. distance p-value : 0.1  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value :  $<0.01$   
Jaccard Measure lower tail : TRUE  
Projection test p-value :  $7.75092\text{e-}08$   
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



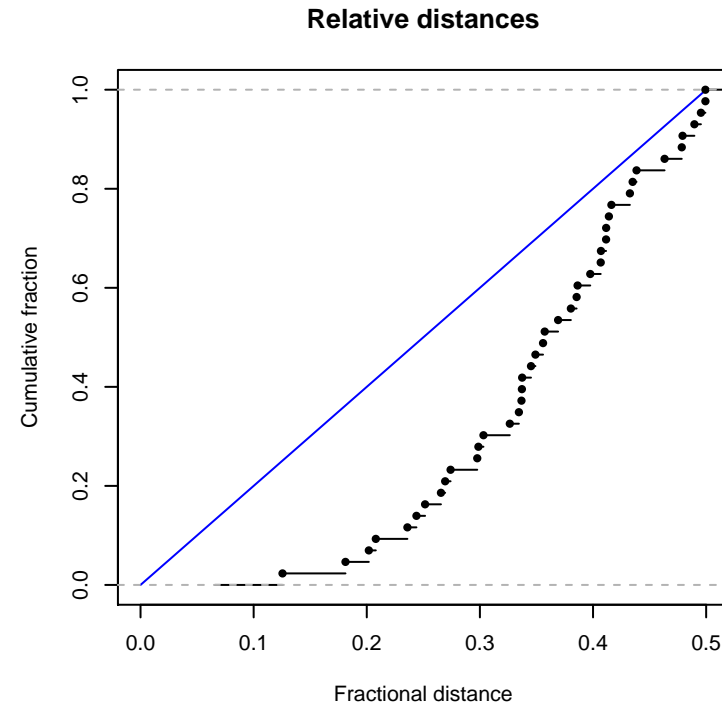
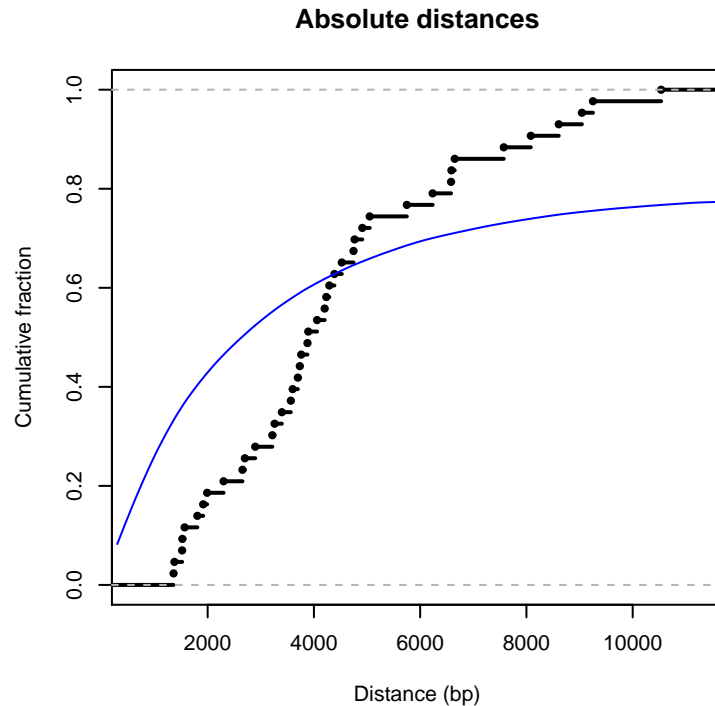
# pcontig\_002

Query population : 36  
Reference population : 453  
Relative Ks p-value : 4.48774e-05  
Relative ecdf deviation area : 0.10838  
Relative ecdf area correlation : -0.432353  
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 : 0.000106529  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



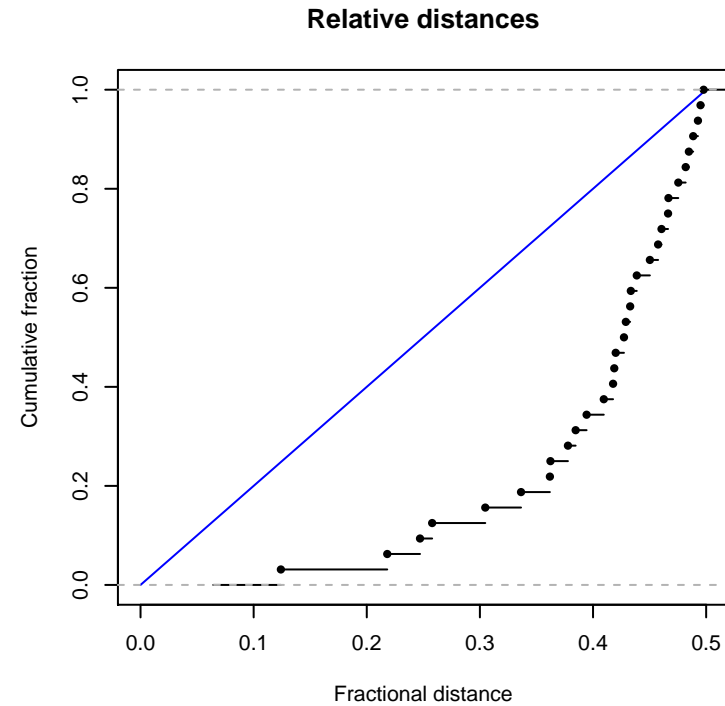
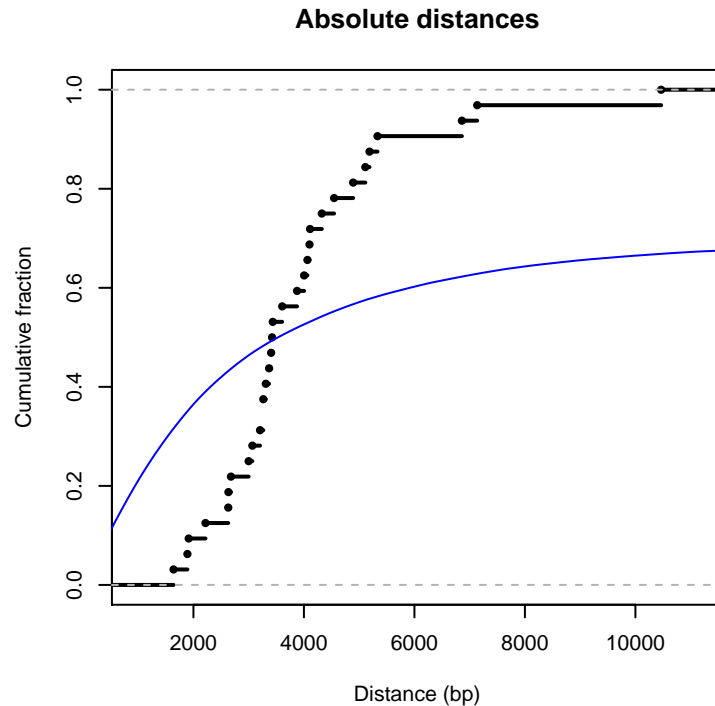
# pcontig\_003

Query population : 43  
Reference population : 423  
Relative Ks p-value : 4.68992e-06  
Relative ecdf deviation area : 0.106711  
Relative ecdf area correlation : -0.426282  
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 : 0.00014812  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



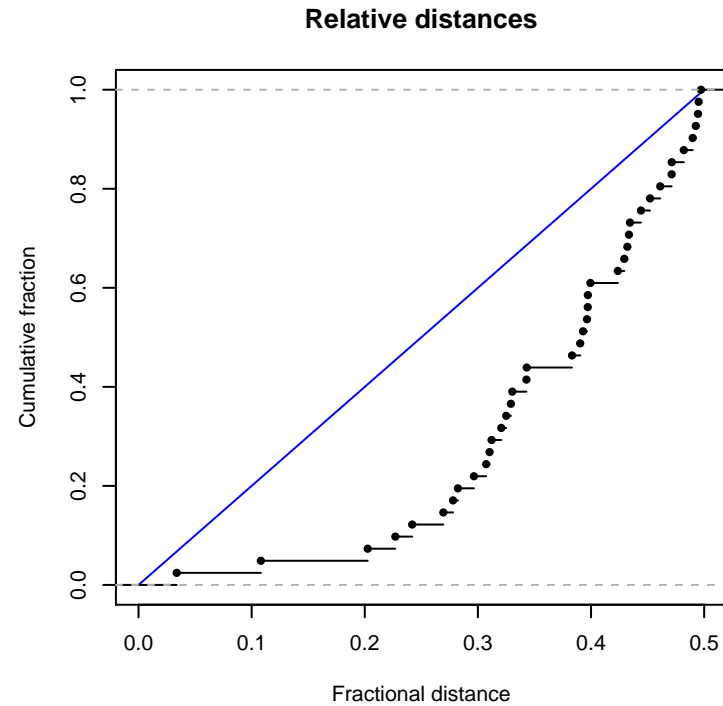
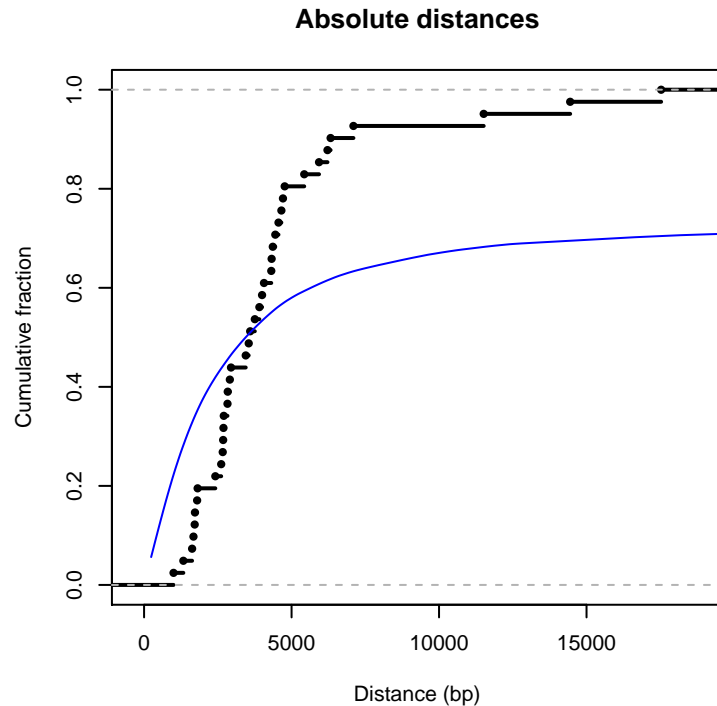
# pcontig\_004

Query population : 32  
Reference population : 339  
Relative Ks p-value : 3.95114e-09  
Relative ecdf deviation area : 0.154104  
Relative ecdf area correlation : -0.614238  
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 : 0.00200357  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



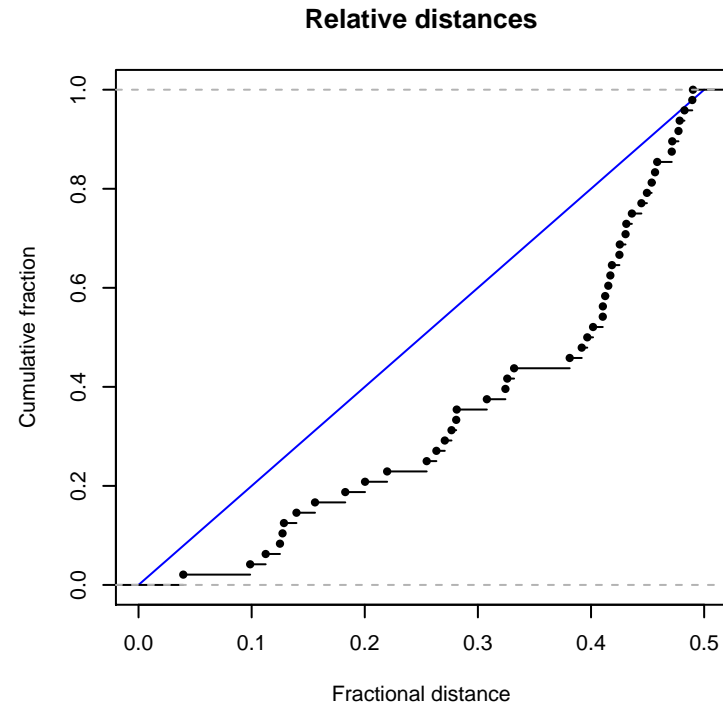
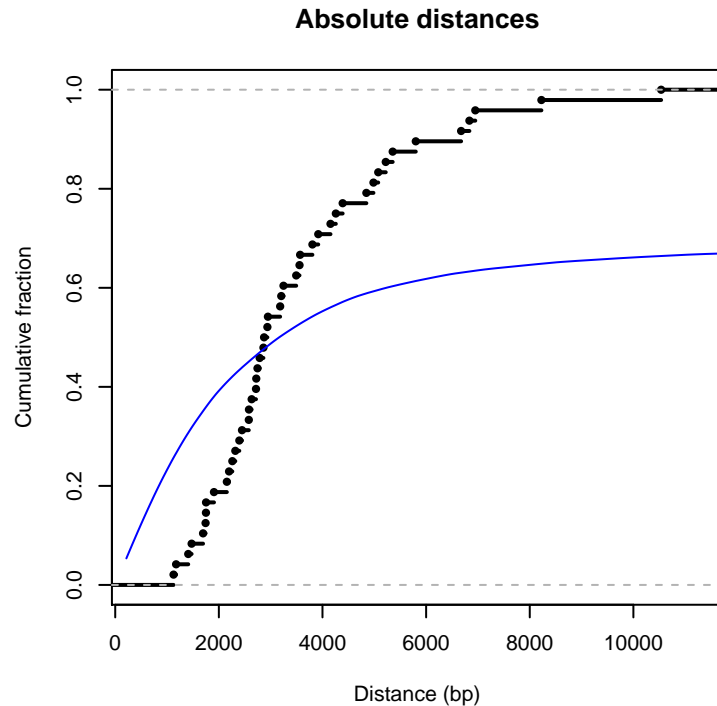
# pcontig\_005

Query population : 41  
Reference population : 359  
Relative Ks p-value : 5.68373e-07  
Relative ecdf deviation area : 0.116156  
Relative ecdf area correlation : -0.465577  
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 : 0.000198711  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



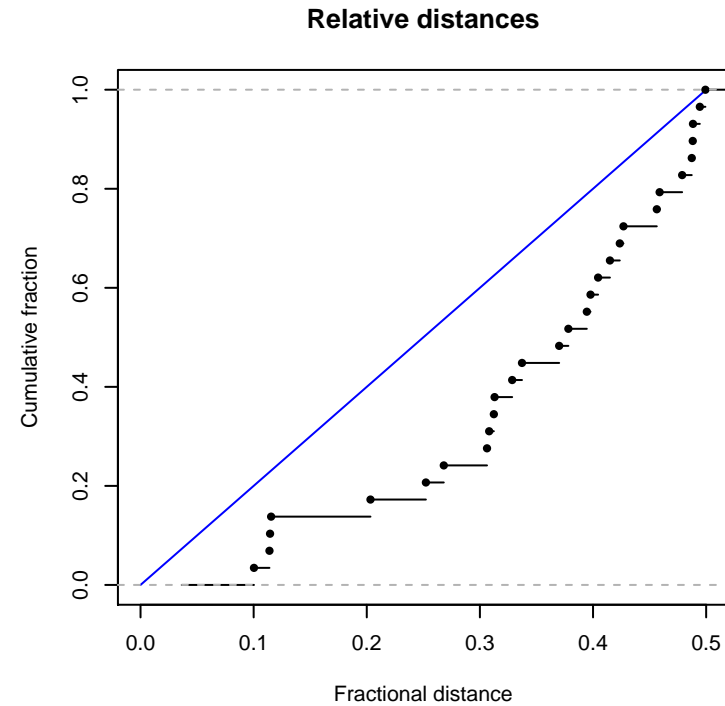
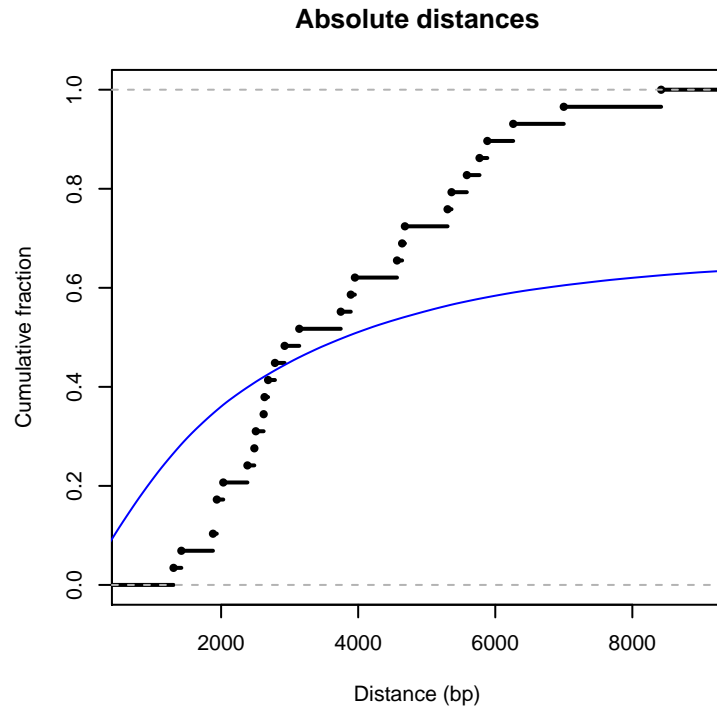
# pcontig\_006

Query population : 48  
Reference population : 382  
Relative Ks p-value : 5.06957e-05  
Relative ecdf deviation area : 0.0894017  
Relative ecdf area correlation : -0.35627  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 5.71612e-05  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_007

Query population : 29  
Reference population : 350  
Relative Ks p-value : 0.000429571  
Relative ecdf deviation area : 0.0994541  
Relative ecdf area correlation : -0.397989  
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 : 0.00558765  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

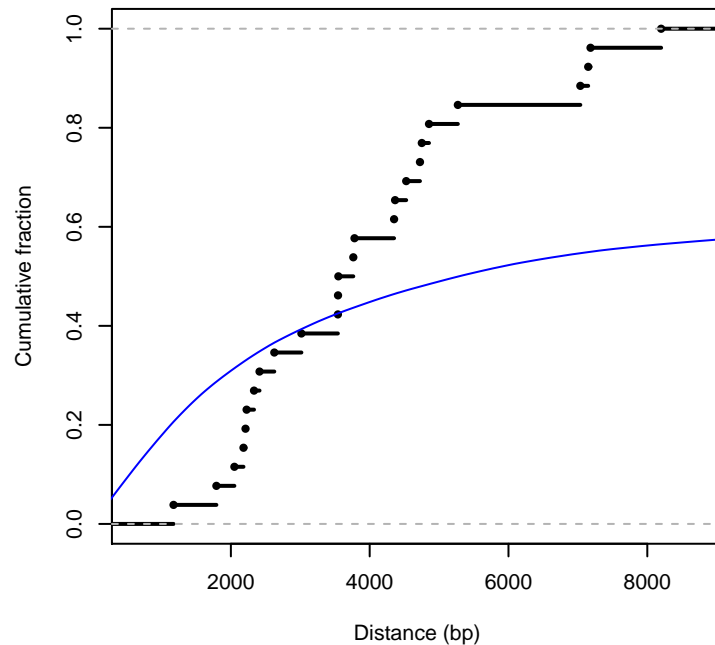




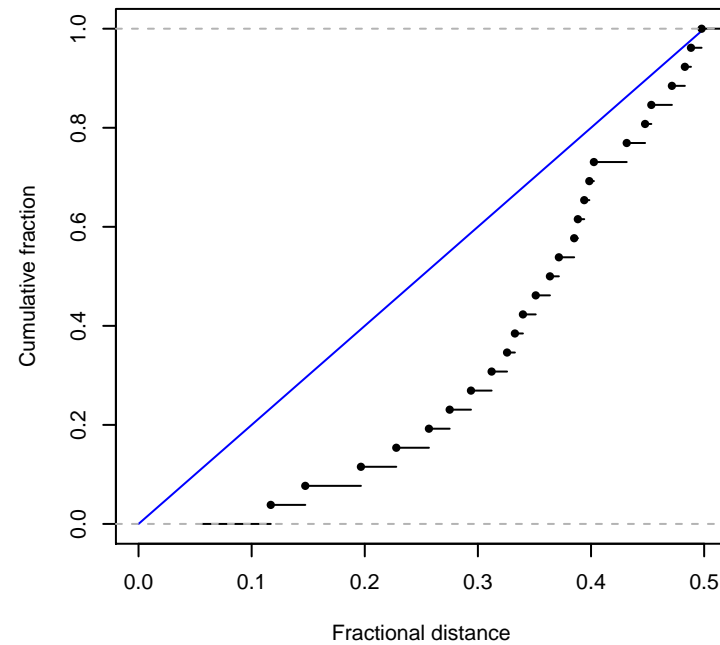
# pcontig\_008

Query population : 26  
Reference population : 285  
Relative Ks p-value : 0.00162293  
Relative ecdf deviation area : 0.101922  
Relative ecdf area correlation : -0.408138  
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 : 0.0139524  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

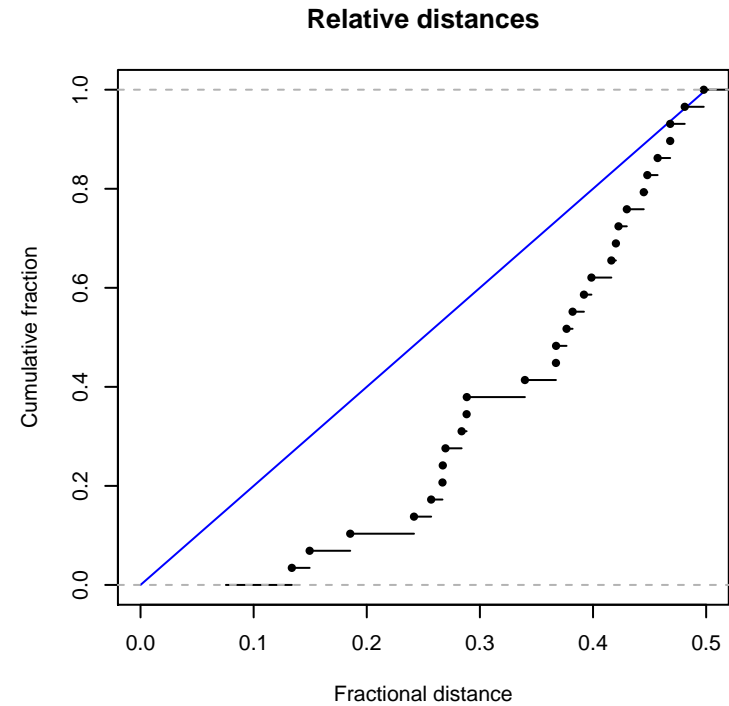
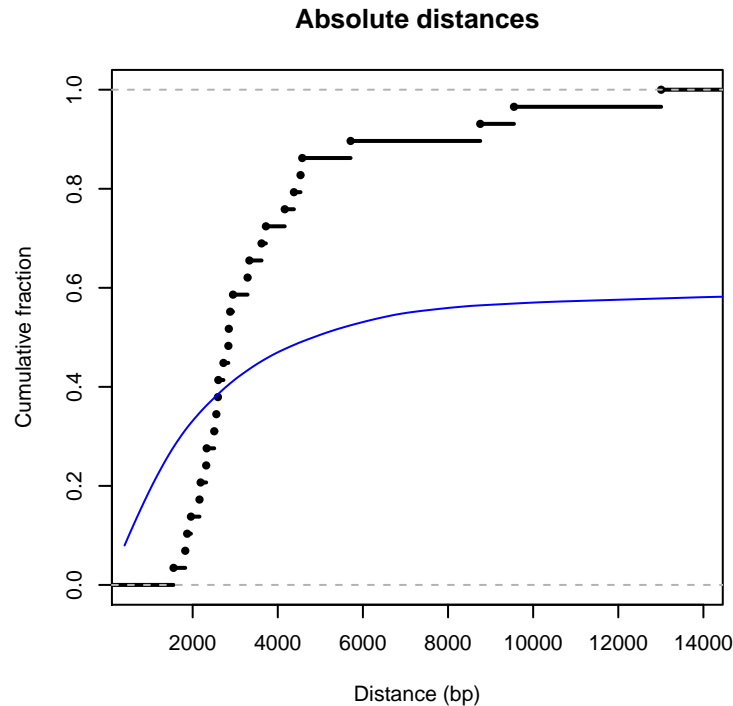


Relative distances



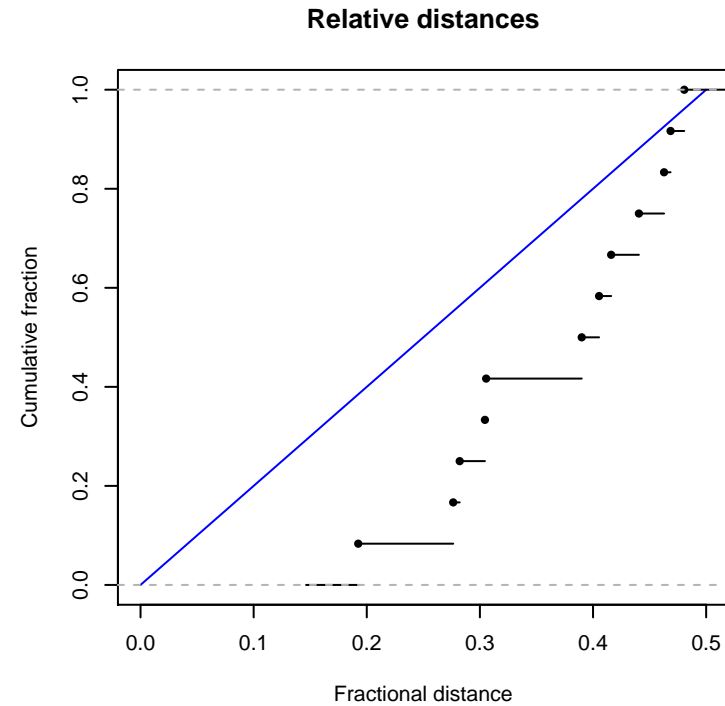
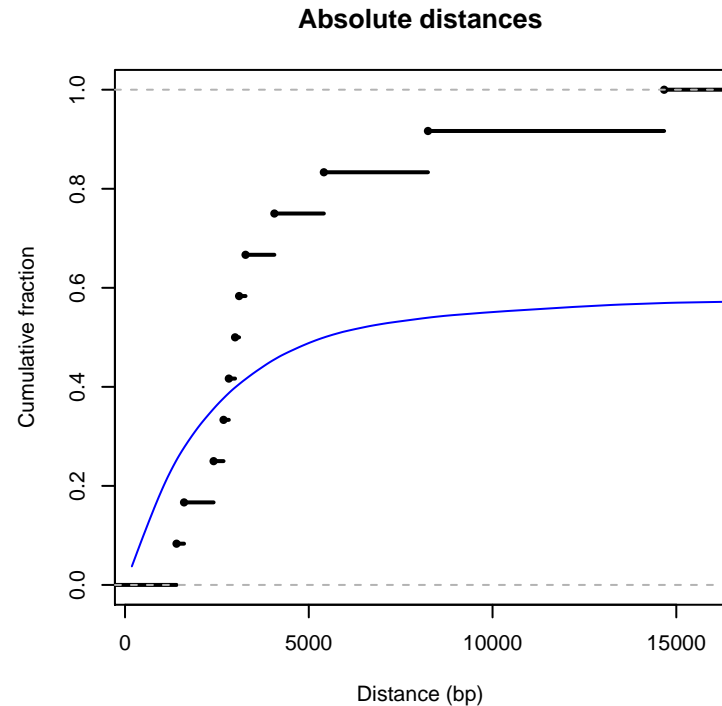
# pcontig\_009

Query population : 29  
Reference population : 306  
Relative Ks p-value : 0.000283109  
Relative ecdf deviation area : 0.102144  
Relative ecdf area correlation : -0.408147  
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 : 0.00274058  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



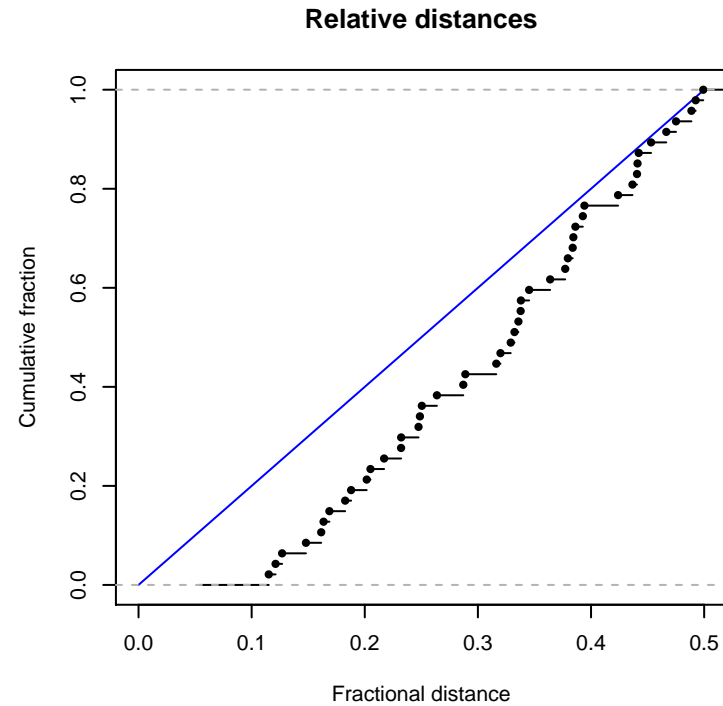
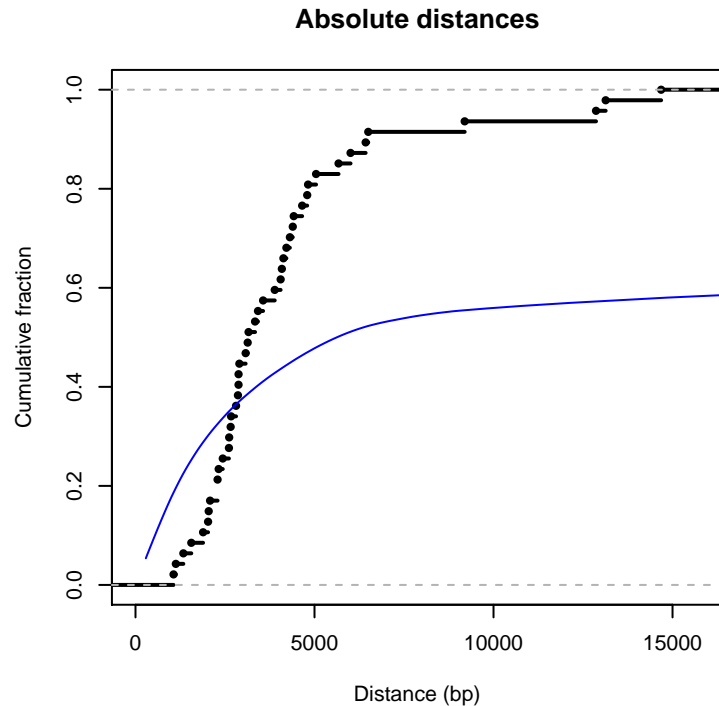
# pcontig\_010

Query population : 12  
Reference population : 309  
Relative Ks p-value : 0.00602804  
Relative ecdf deviation area : 0.119569  
Relative ecdf area correlation : -0.474991  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.176685  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



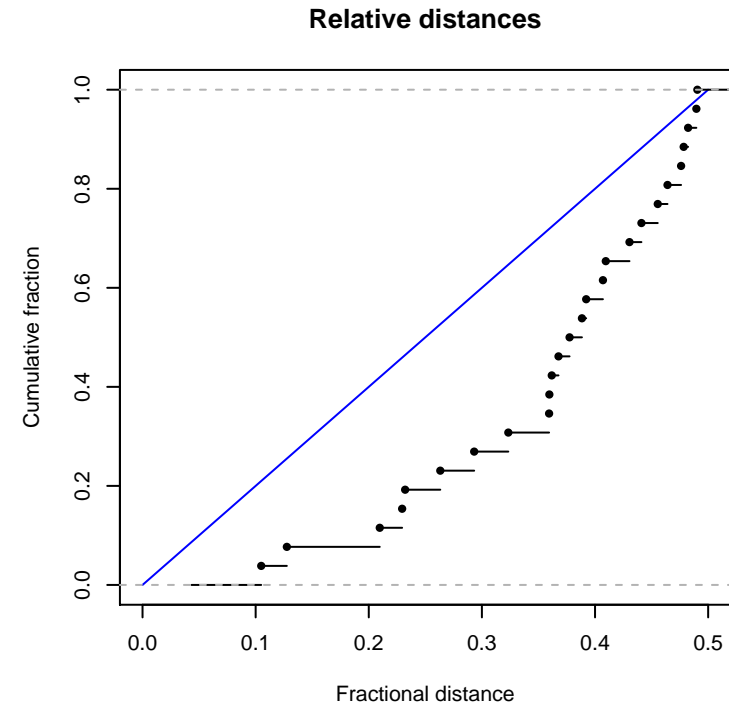
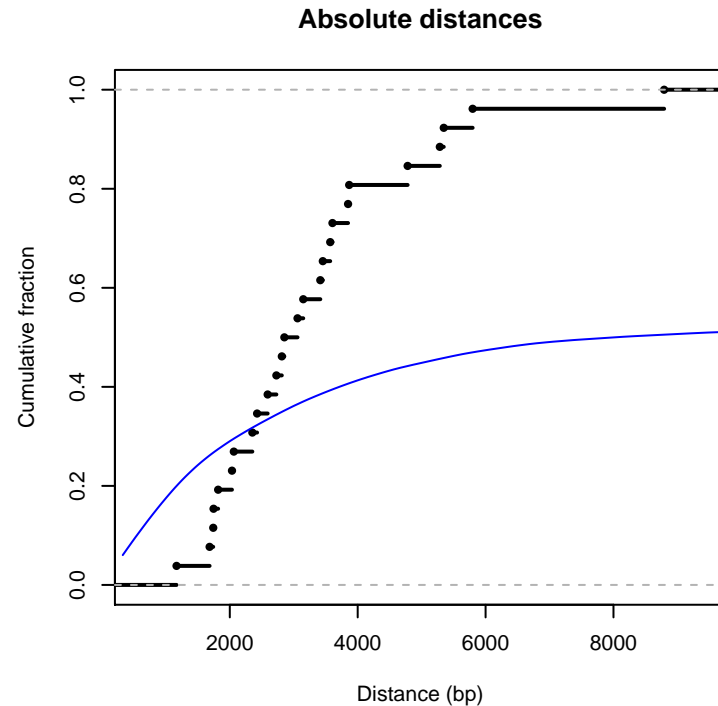
# pcontig\_011

Query population : 47  
Reference population : 285  
Relative Ks p-value : 0.00799745  
Relative ecdf deviation area : 0.0656811  
Relative ecdf area correlation : -0.261801  
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 : 0.000408144  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



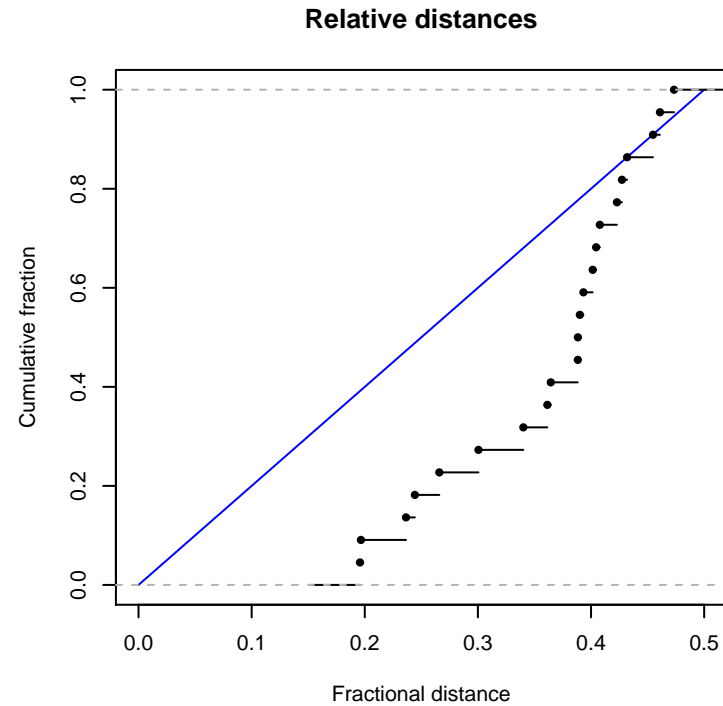
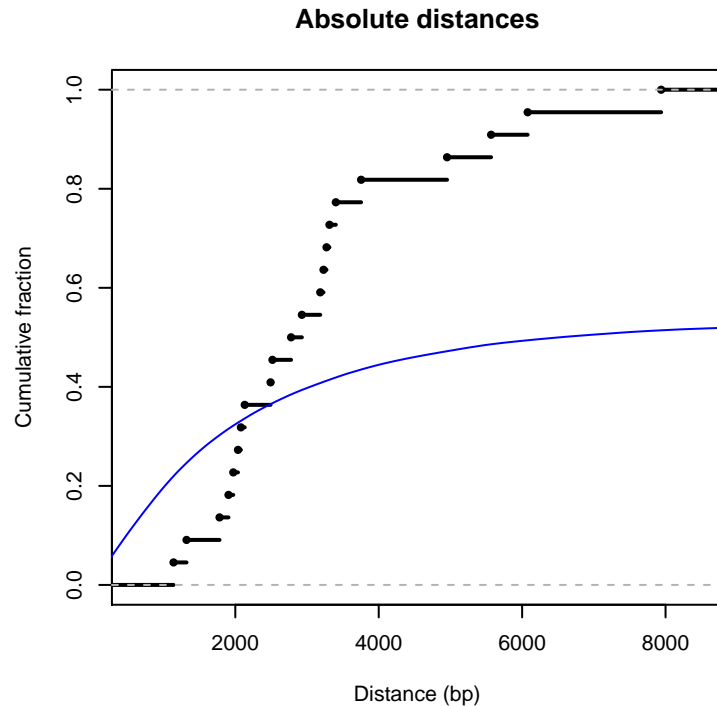
# pcontig\_012

Query population : 26  
Reference population : 283  
Relative Ks p-value : 0.00017282  
Relative ecdf deviation area : 0.112455  
Relative ecdf area correlation : -0.448373  
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 : 0.025202  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



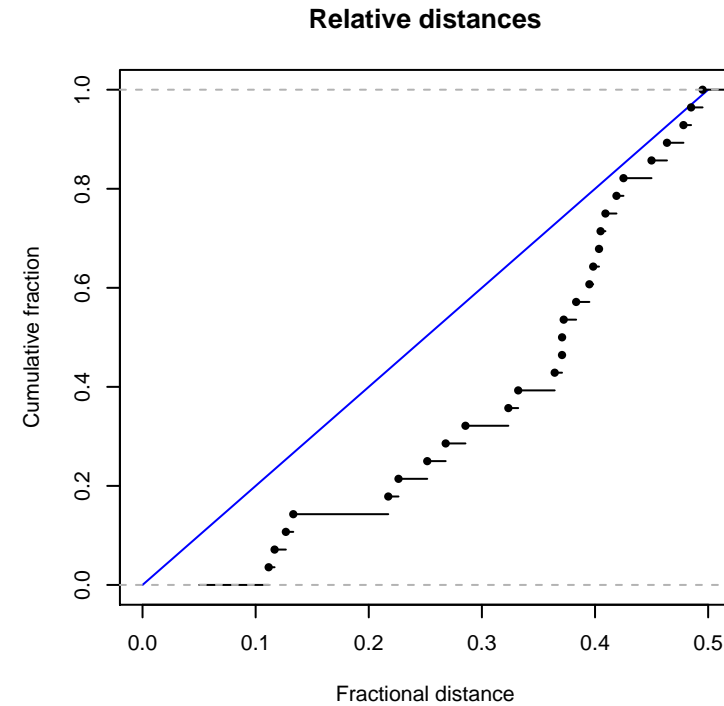
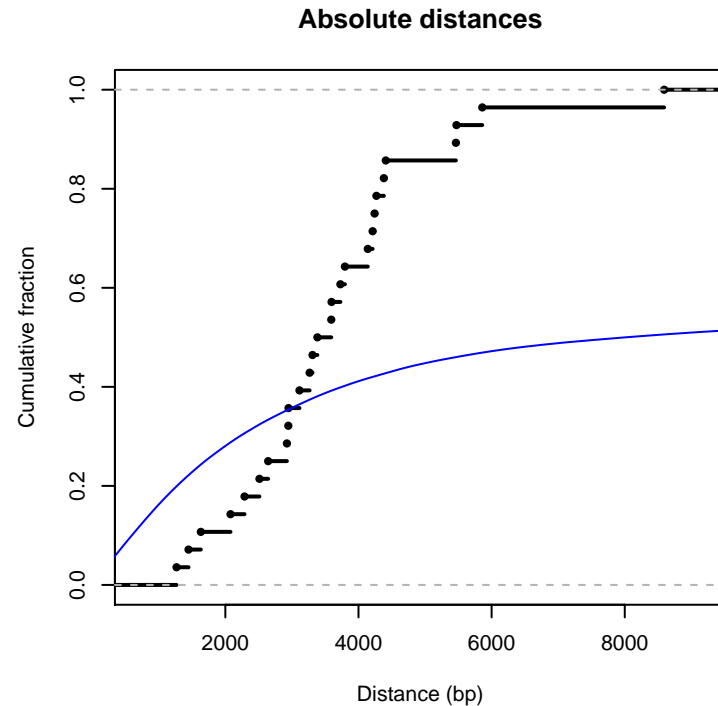
# pcontig\_013

Query population : 22  
Reference population : 322  
Relative Ks p-value : 0.000810235  
Relative ecdf deviation area : 0.112531  
Relative ecdf area correlation : -0.44557  
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 : 0.0285107  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



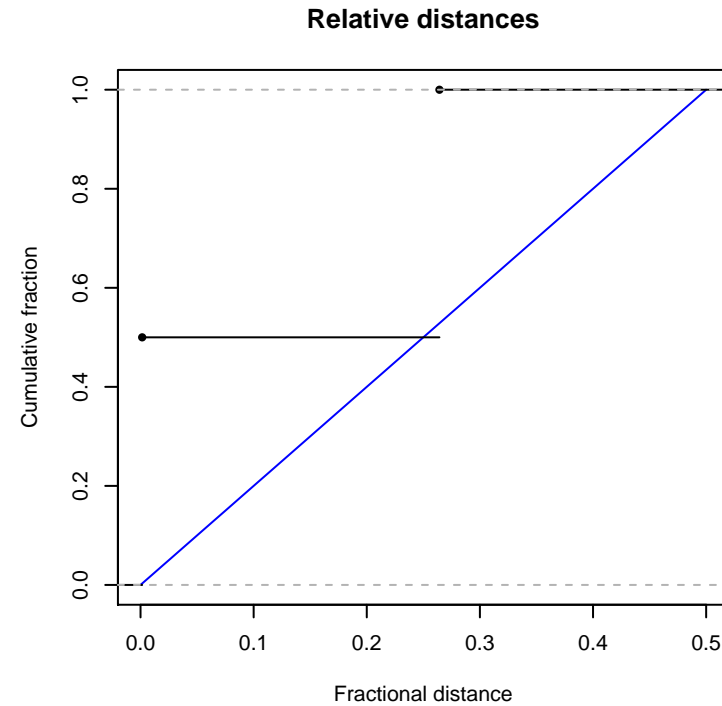
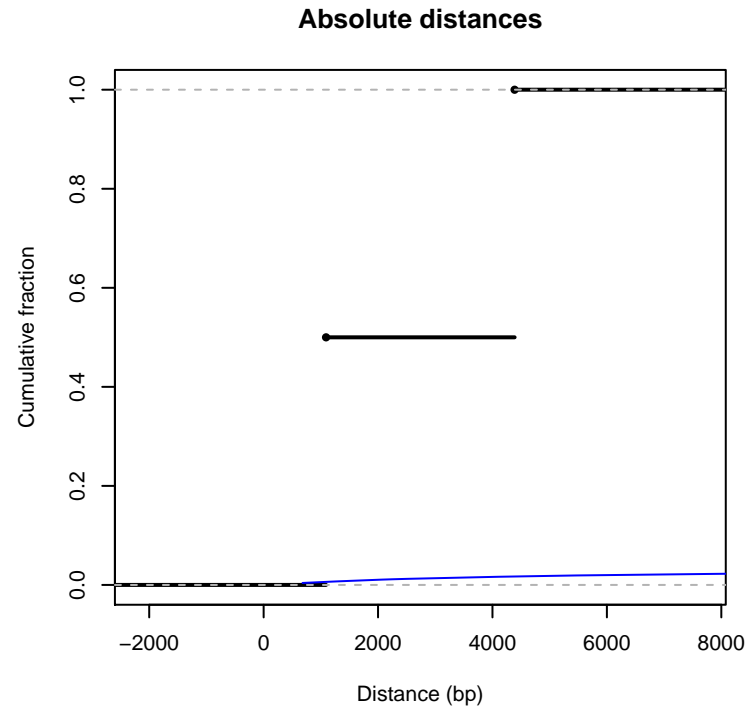
# pcontig\_014

Query population : 28  
Reference population : 261  
Relative Ks p-value : 0.00255902  
Relative ecdf deviation area : 0.0891744  
Relative ecdf area correlation : -0.354413  
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 : 0.0209605  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_015

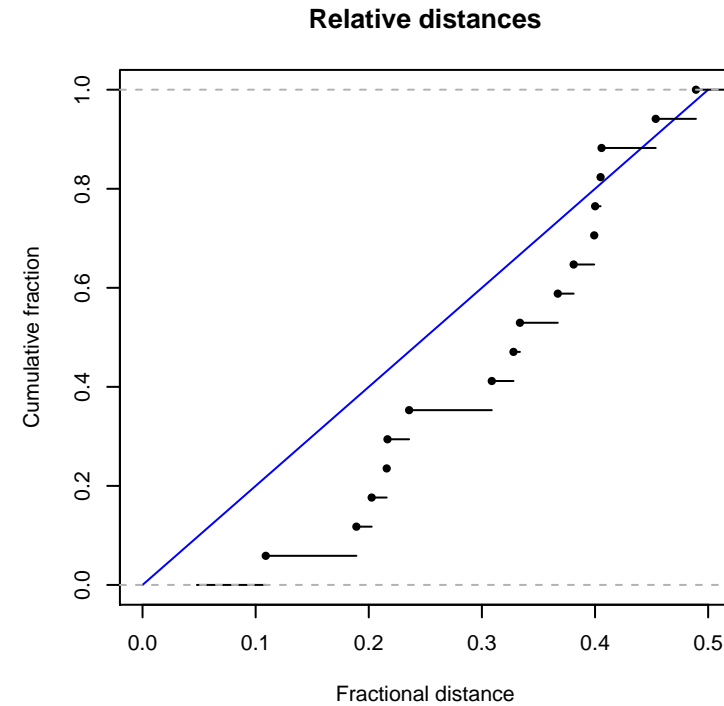
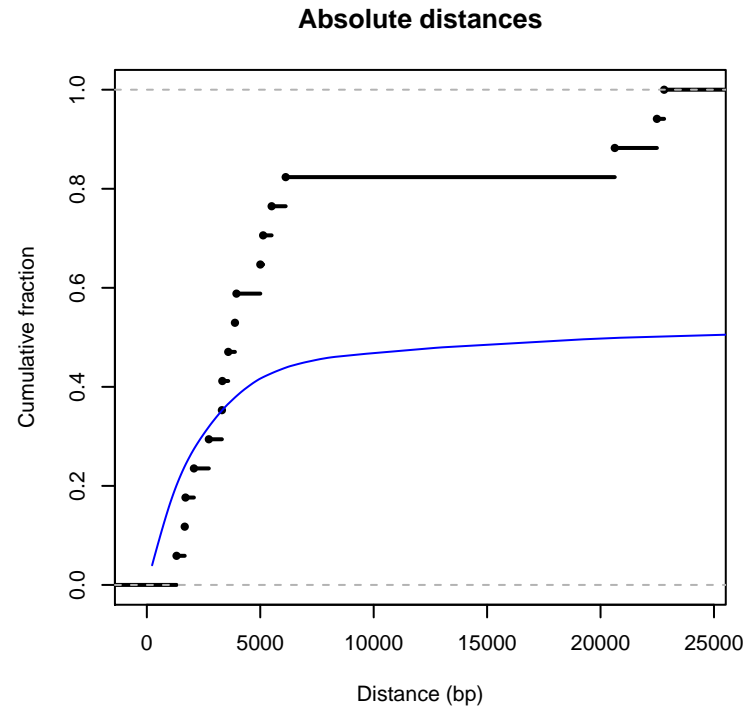
Query population : 2  
Reference population : 9  
Relative Ks p-value : 0.511605  
Relative ecdf deviation area : 0.1175  
Relative ecdf area correlation : 0.468638  
Relative ecdf deviation area p-value : 0.36  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00510212  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





# pcontig\_016

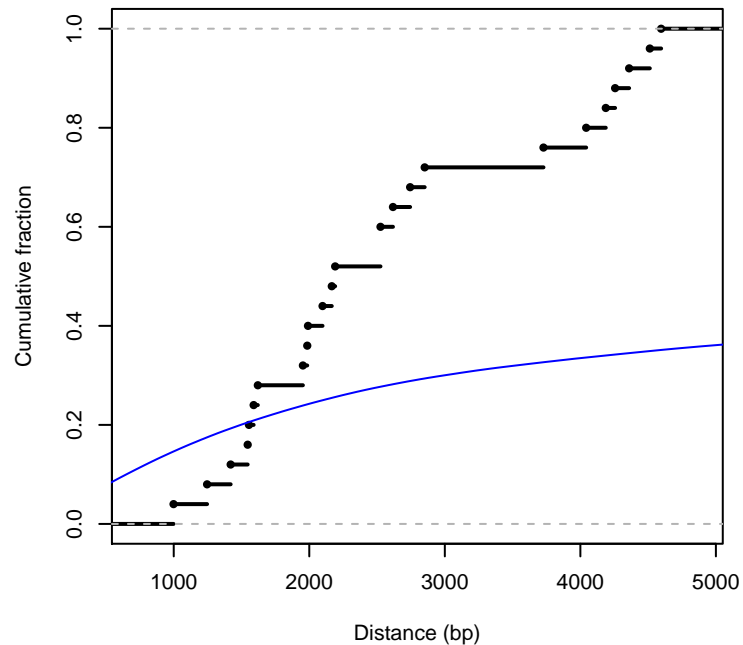
Query population : 17  
Reference population : 262  
Relative Ks p-value : 0.0484883  
Relative ecdf deviation area : 0.0733393  
Relative ecdf area correlation : -0.279994  
Relative ecdf deviation area p-value : 0.02  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.081938  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



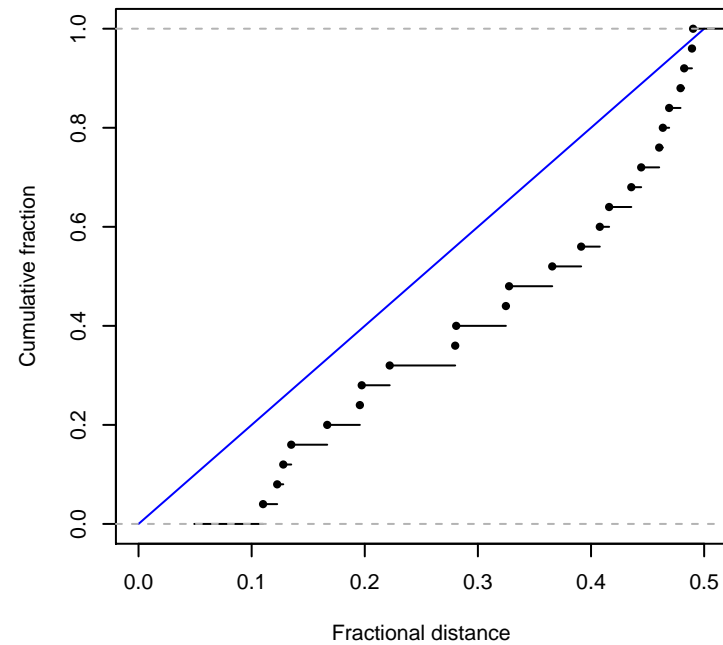
# pcontig\_017

Query population : 25  
Reference population : 244  
Relative Ks p-value : 0.0520545  
Relative ecdf deviation area : 0.0817096  
Relative ecdf area correlation : -0.325604  
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 : 0.0457351  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

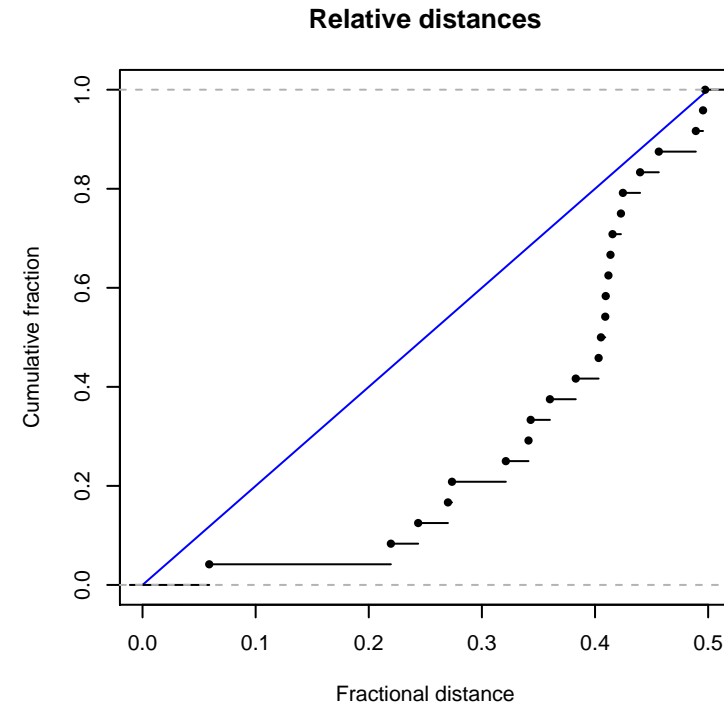
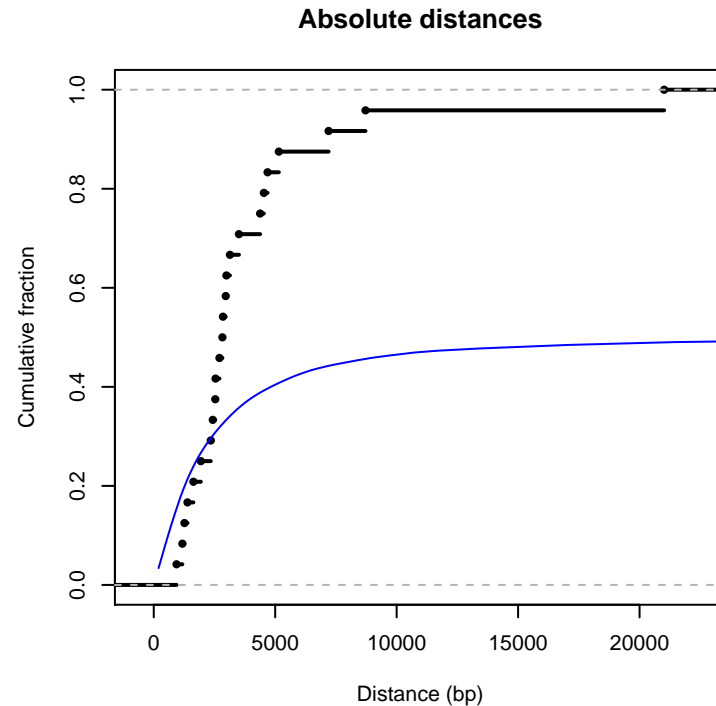


Relative distances



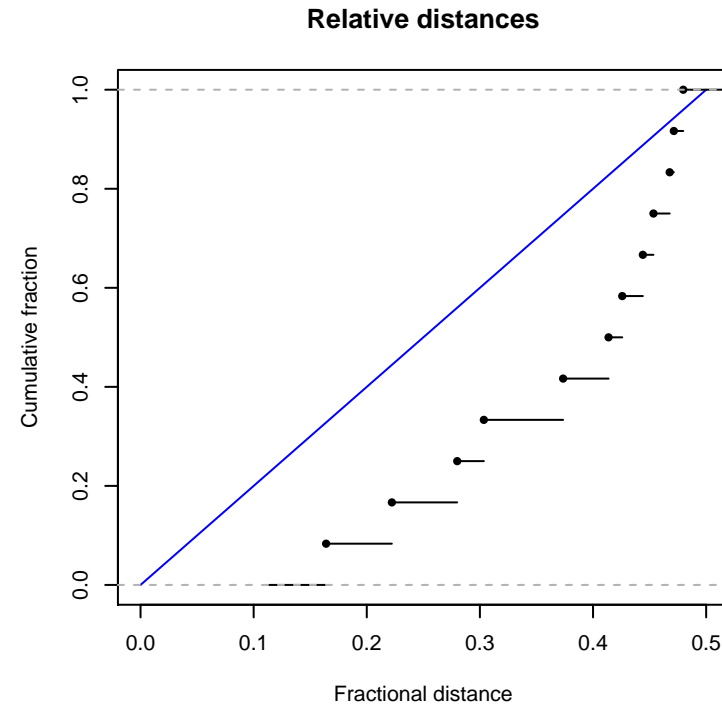
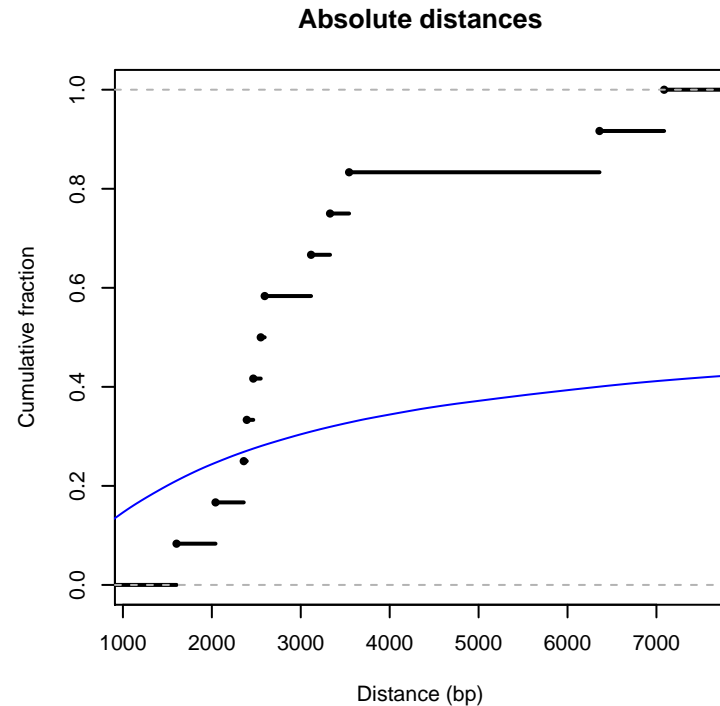
# pcontig\_018

Query population : 24  
Reference population : 262  
Relative Ks p-value : 0.000125854  
Relative ecdf deviation area : 0.121122  
Relative ecdf area correlation : -0.48464  
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 : 0.0583216  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



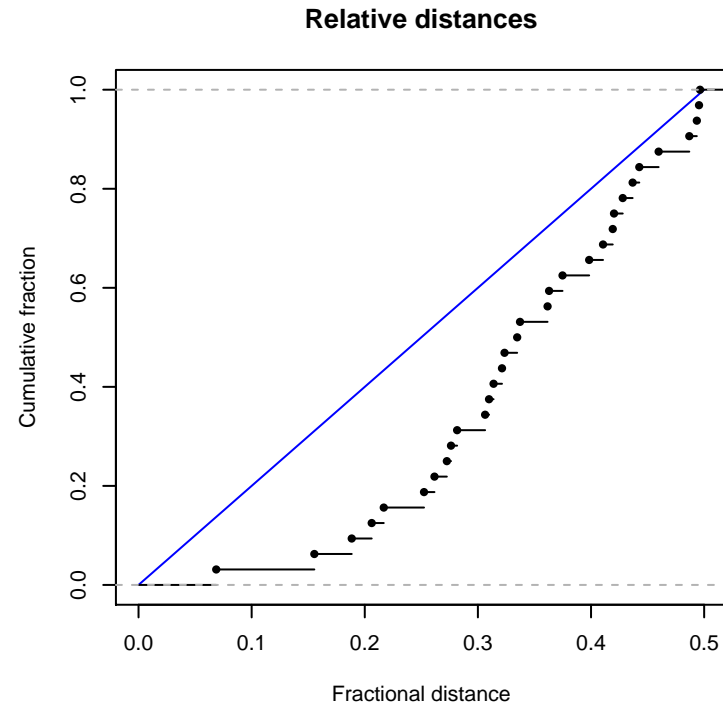
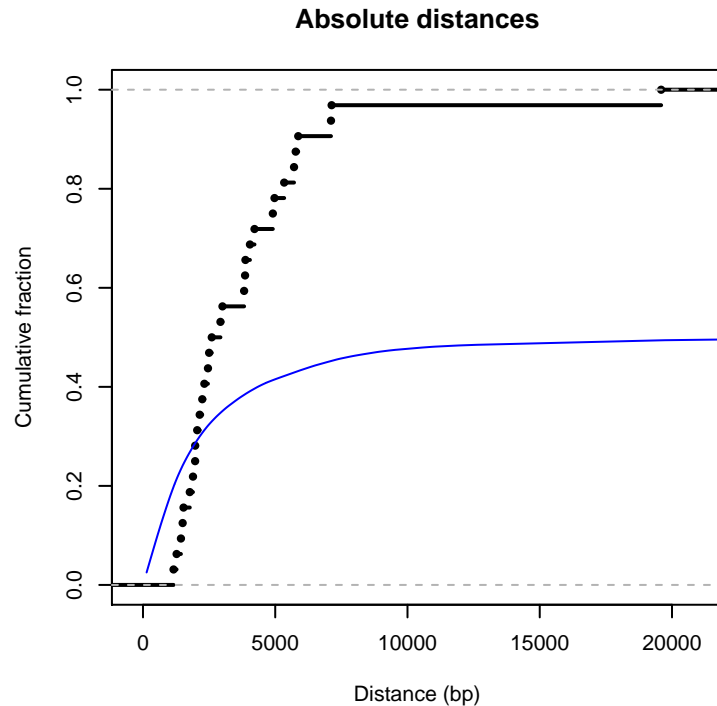
# pcontig\_019

Query population : 12  
Reference population : 244  
Relative Ks p-value : 0.0225386  
Relative ecdf deviation area : 0.126041  
Relative ecdf area correlation : -0.499721  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.25232  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



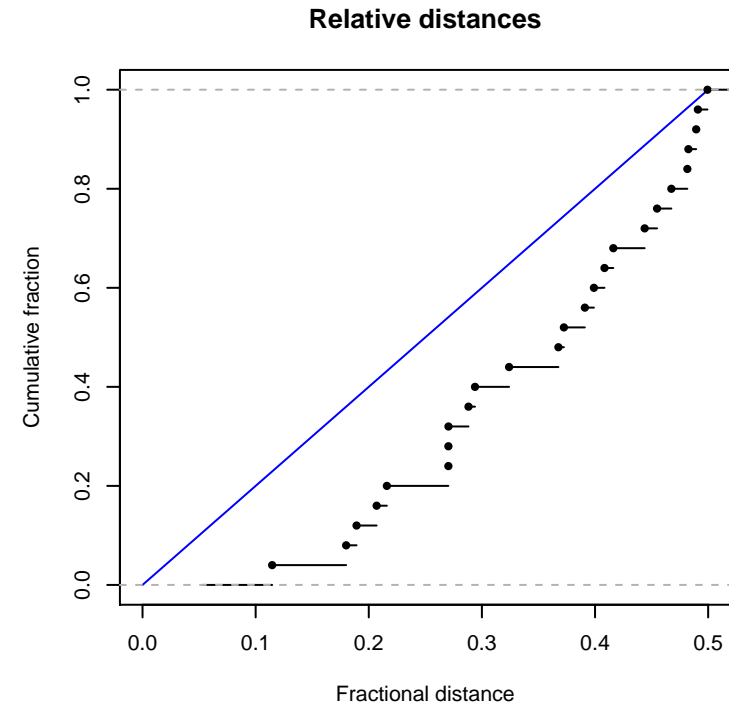
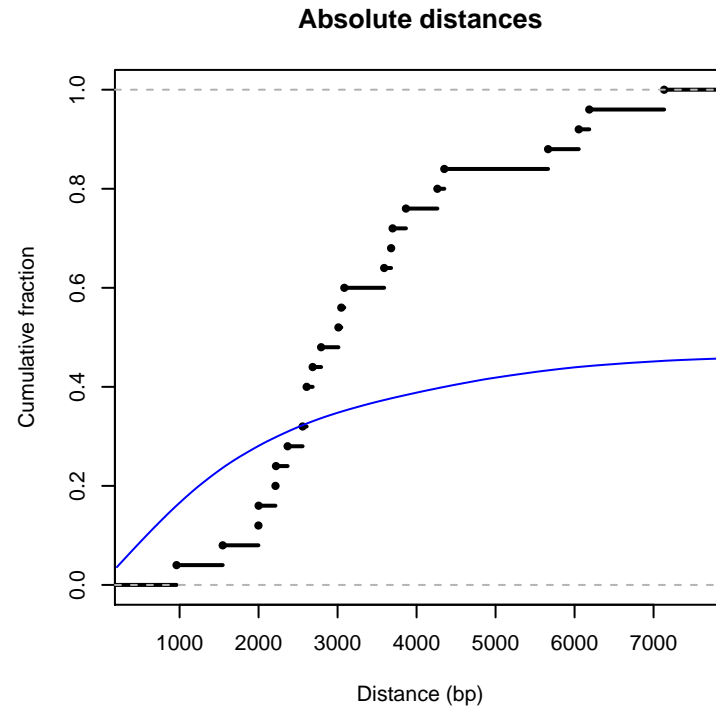
# pcontig\_020

Query population : 32  
Reference population : 282  
Relative Ks p-value : 0.000560001  
Relative ecdf deviation area : 0.0910031  
Relative ecdf area correlation : -0.364256  
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 : 0.0117928  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



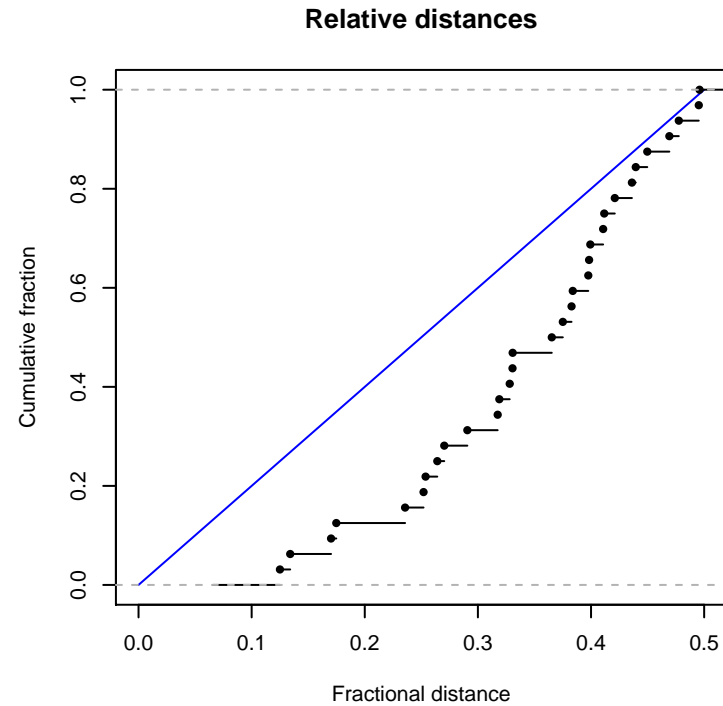
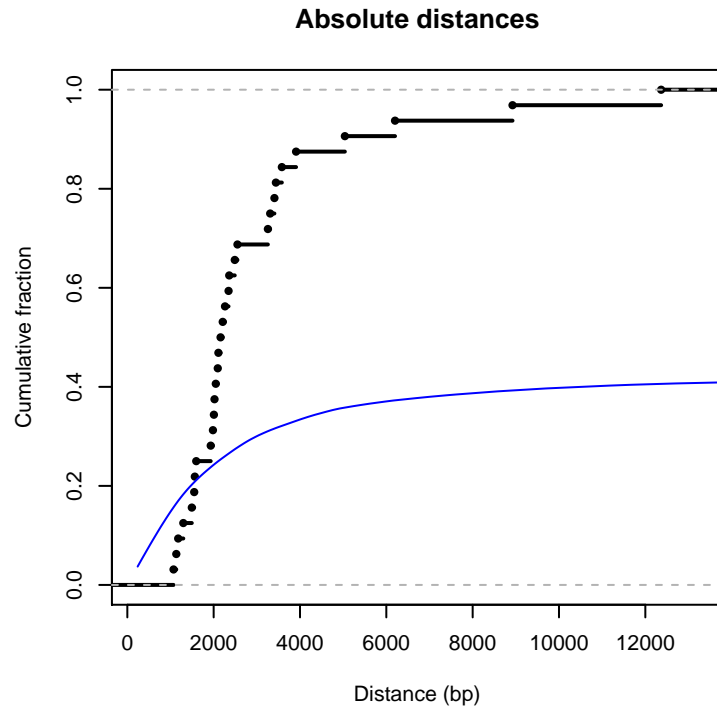
# pcontig\_021

Query population : 25  
Reference population : 267  
Relative Ks p-value : 0.00429268  
Relative ecdf deviation area : 0.101526  
Relative ecdf area correlation : -0.406216  
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 : 0.0235539  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



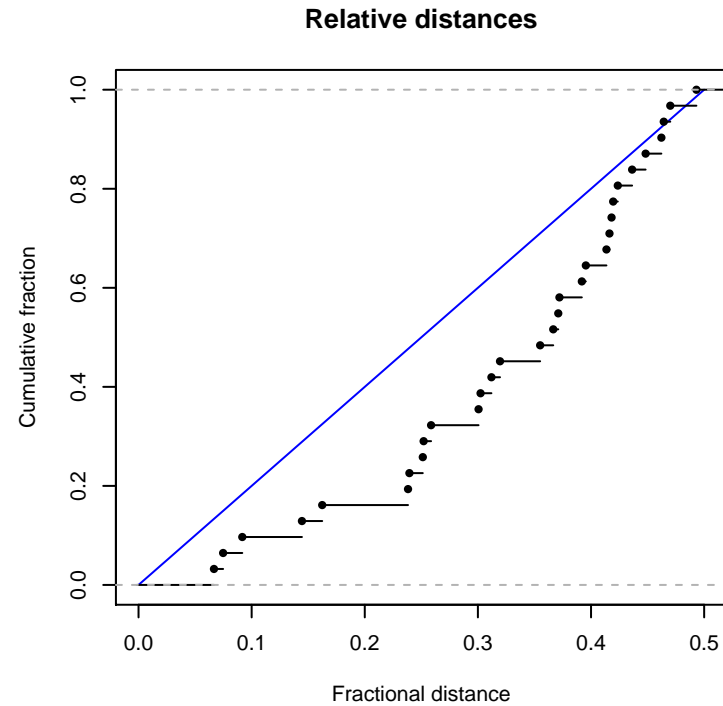
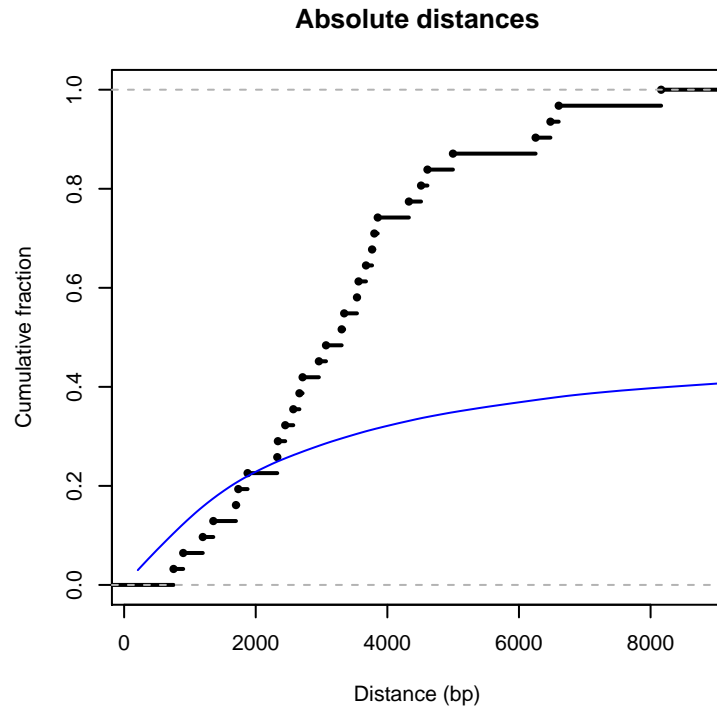
# pcontig\_022

Query population : 32  
Reference population : 238  
Relative Ks p-value : 0.000584019  
Relative ecdf deviation area : 0.094207  
Relative ecdf area correlation : -0.375676  
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 : 0.0135236  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_023

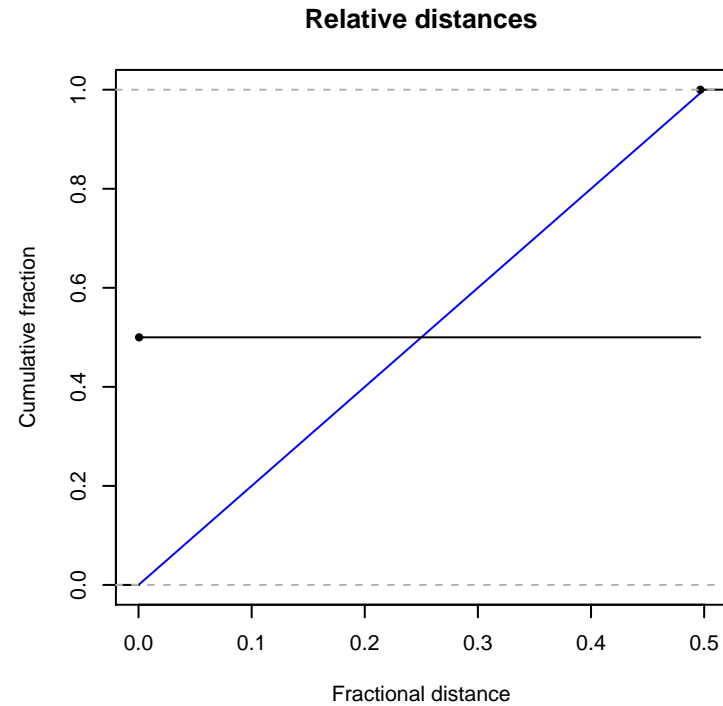
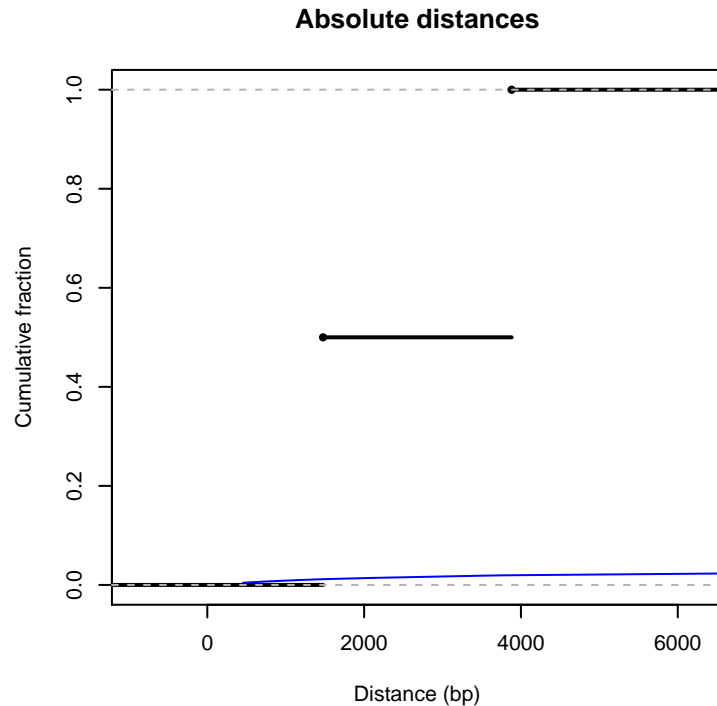
Query population : 31  
Reference population : 220  
Relative Ks p-value : 0.0030935  
Relative ecdf deviation area : 0.0777602  
Relative ecdf area correlation : -0.307313  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.029195  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0





# pcontig\_024

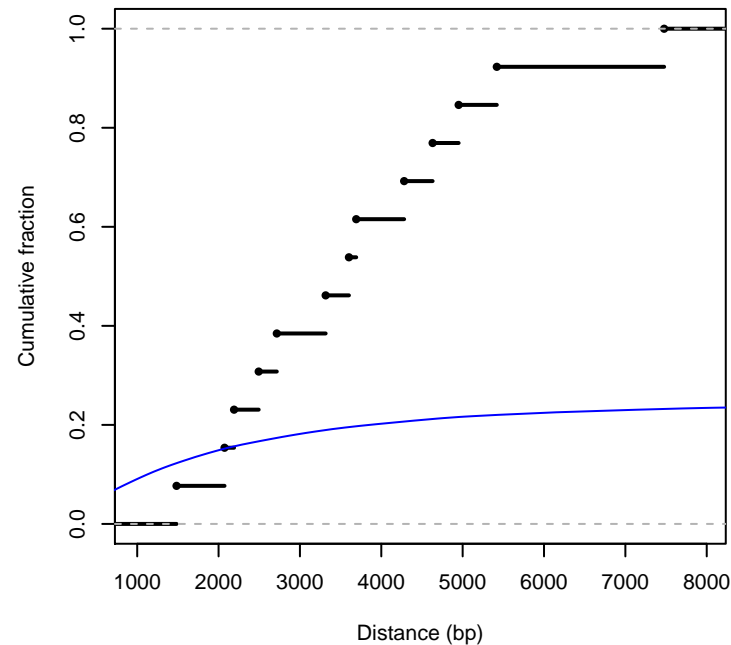
Query population : 2  
Reference population : 15  
Relative Ks p-value : 0.503926  
Relative ecdf deviation area : 0.123631  
Relative ecdf area correlation : 0.00579839  
Relative ecdf deviation area p-value : 0.4  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0117604  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



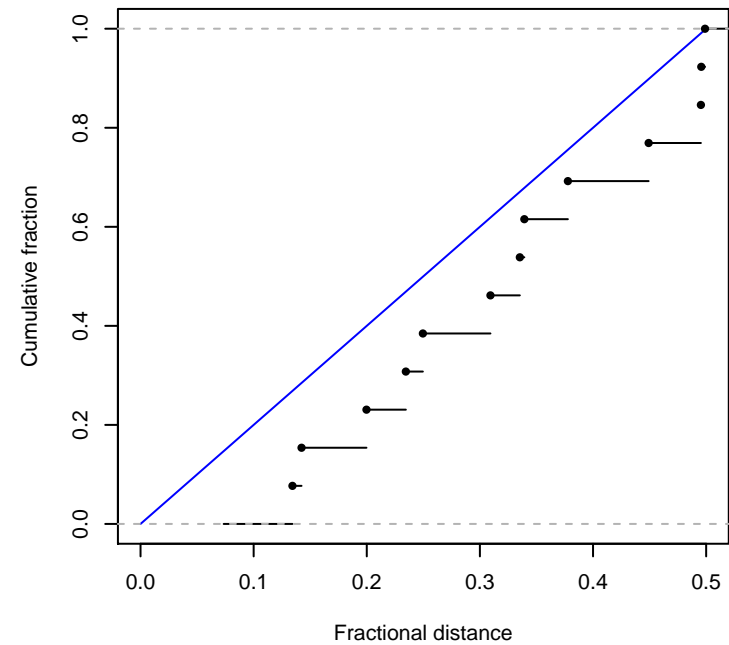
# pcontig\_025

Query population : 13  
Reference population : 156  
Relative Ks p-value : 0.255751  
Relative ecdf deviation area : 0.0780243  
Relative ecdf area correlation : -0.311195  
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 : 0.1  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.454613  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

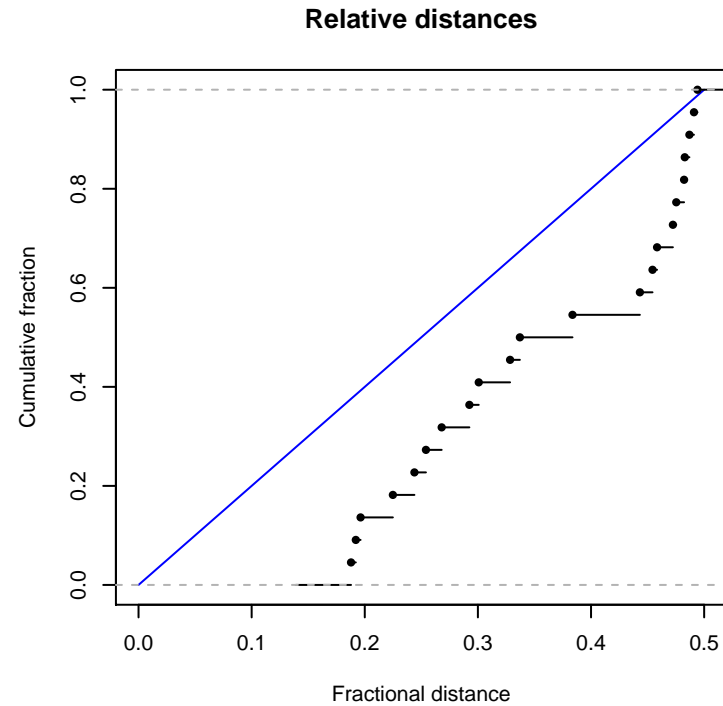
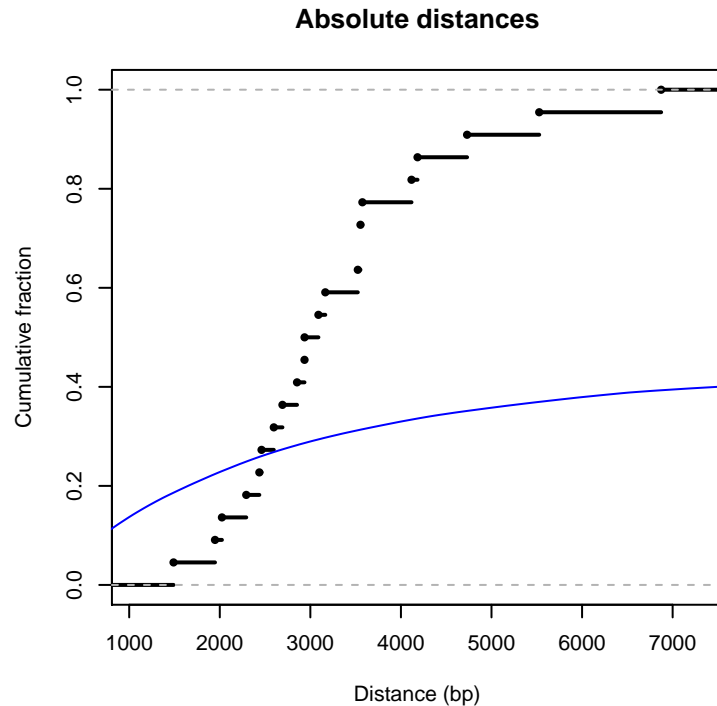


Relative distances



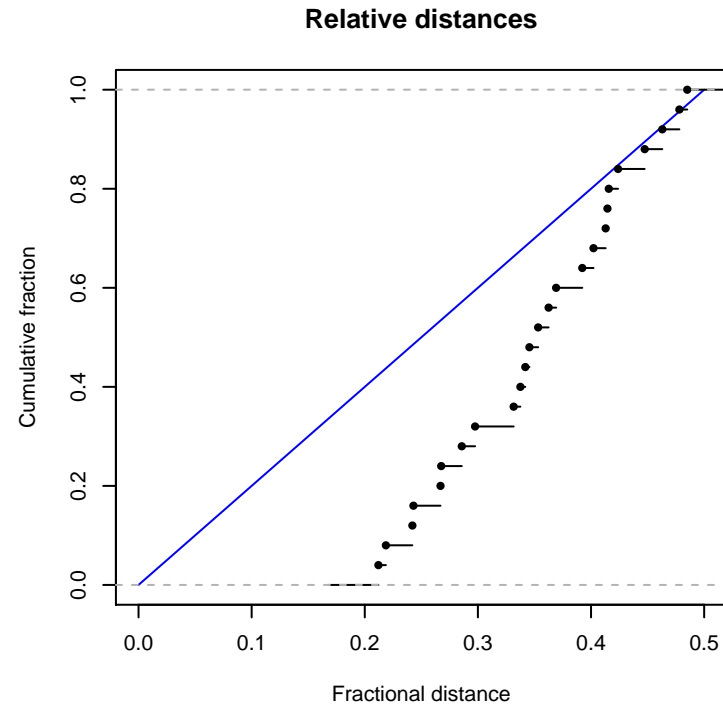
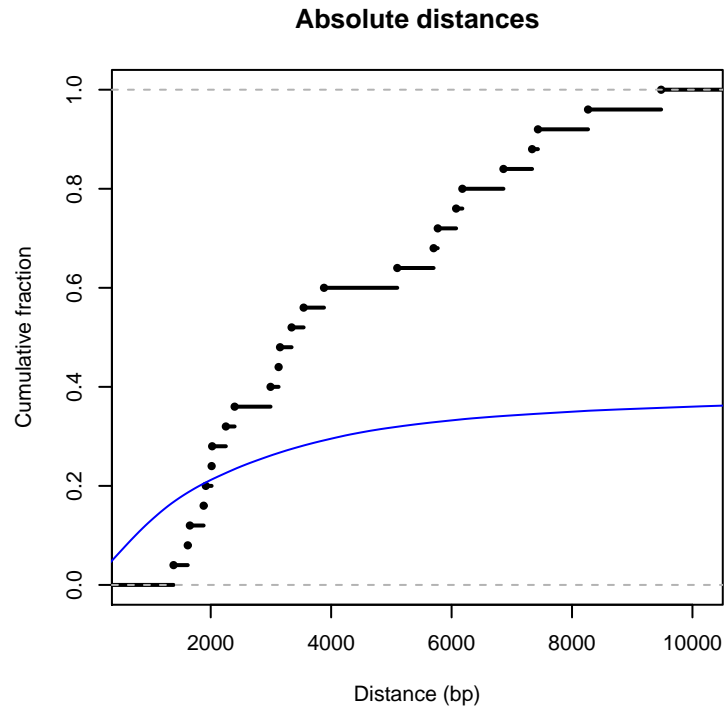
# pcontig\_026

Query population : 22  
Reference population : 225  
Relative Ks p-value : 0.00268365  
Relative ecdf deviation area : 0.110911  
Relative ecdf area correlation : -0.4455  
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 : 0.129065  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



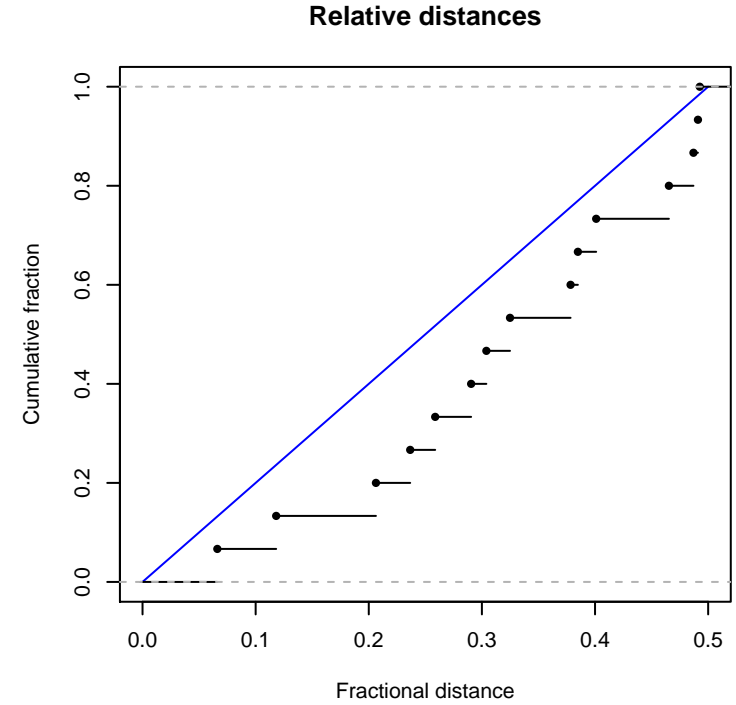
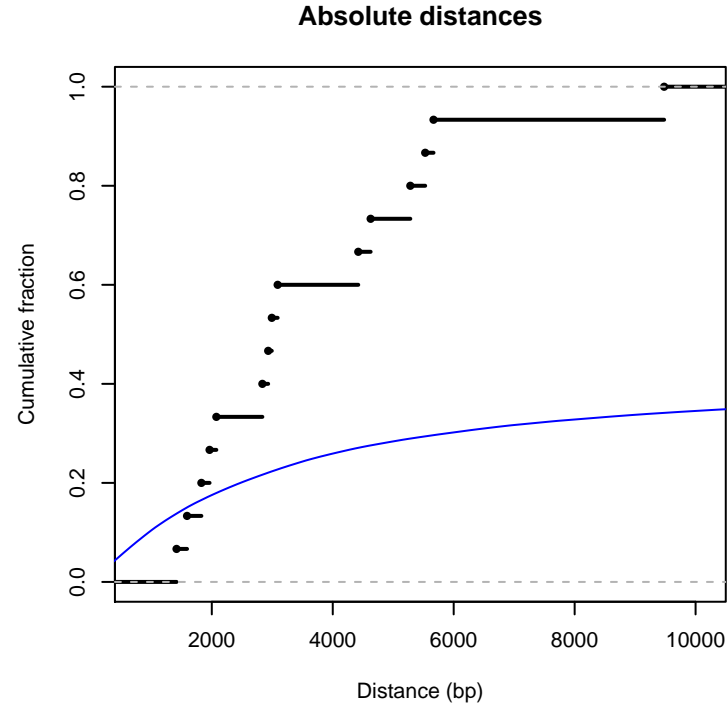
# pcontig\_027

Query population : 25  
Reference population : 209  
Relative Ks p-value : 0.000135216  
Relative ecdf deviation area : 0.10258  
Relative ecdf area correlation : -0.409632  
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 : 0.100055  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



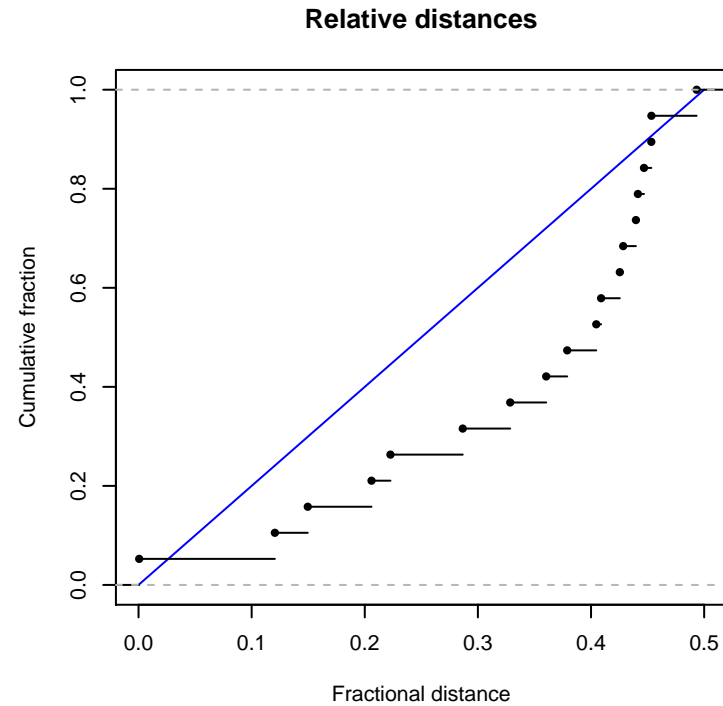
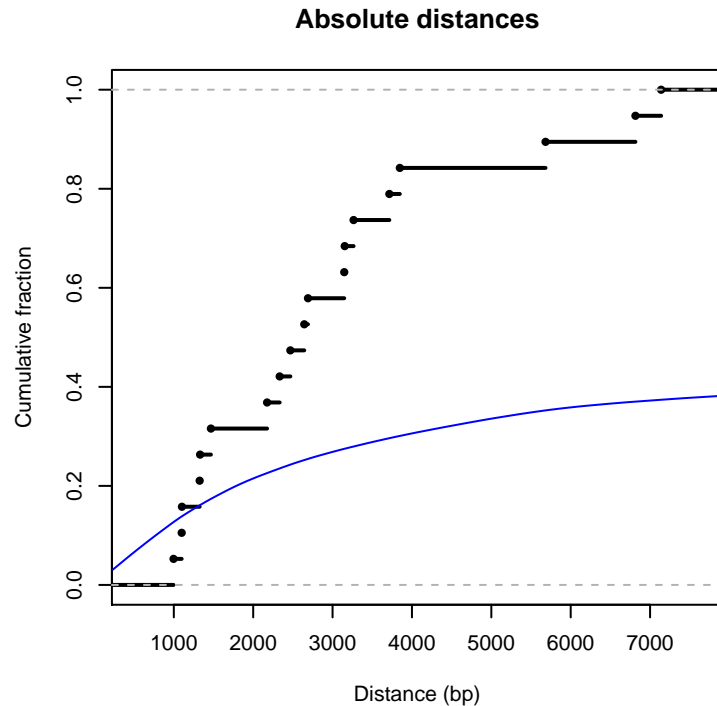
# pcontig\_028

Query population : 15  
Reference population : 168  
Relative Ks p-value : 0.158275  
Relative ecdf deviation area : 0.077557  
Relative ecdf area correlation : -0.308106  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.199768  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



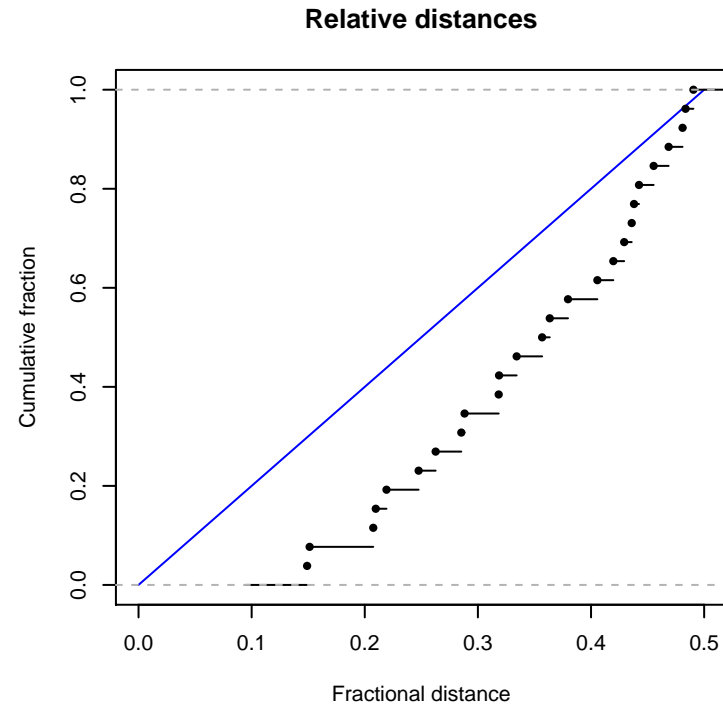
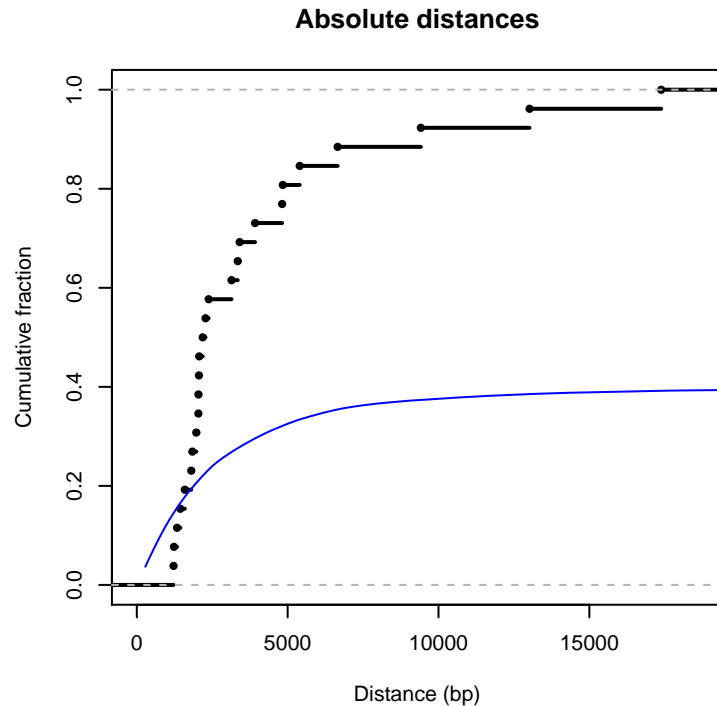
# pcontig\_029

Query population : 19  
Reference population : 204  
Relative Ks p-value : 0.0129612  
Relative ecdf deviation area : 0.0915367  
Relative ecdf area correlation : -0.357732  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.186066  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



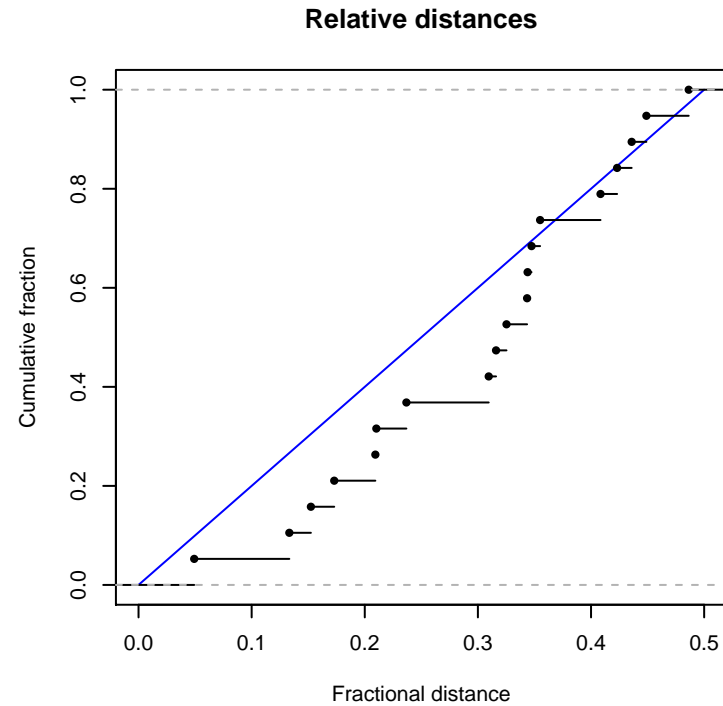
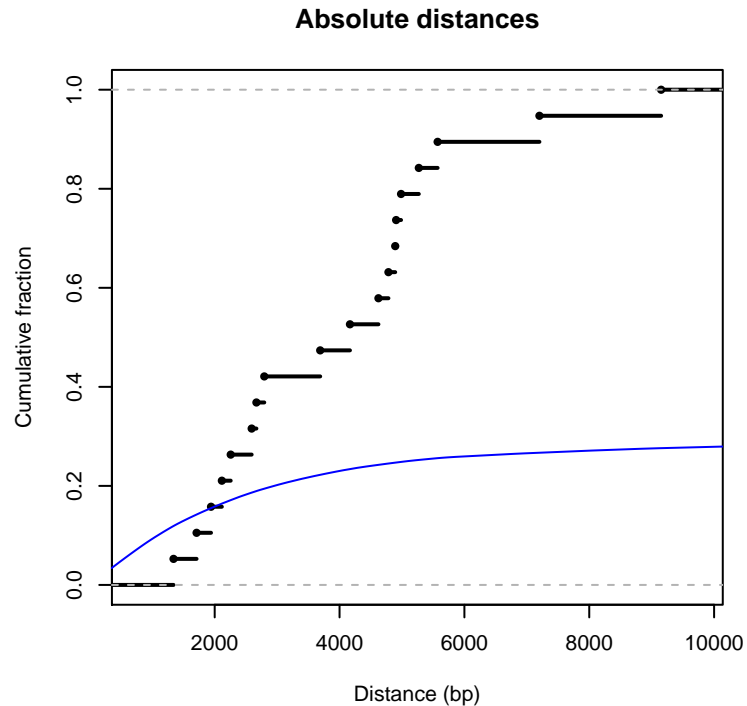
# pcontig\_030

Query population : 26  
Reference population : 201  
Relative Ks p-value : 0.00374172  
Relative ecdf deviation area : 0.097662  
Relative ecdf area correlation : -0.391031  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.0811132  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_031

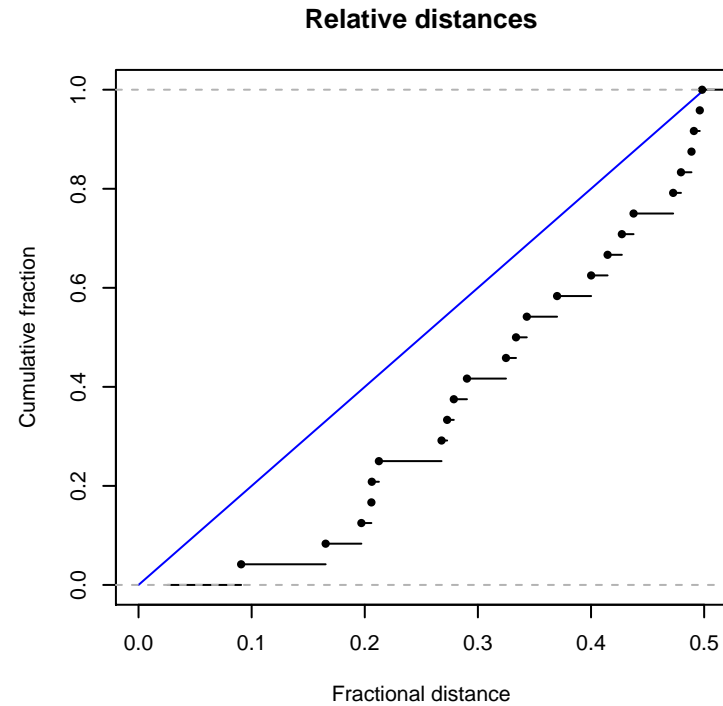
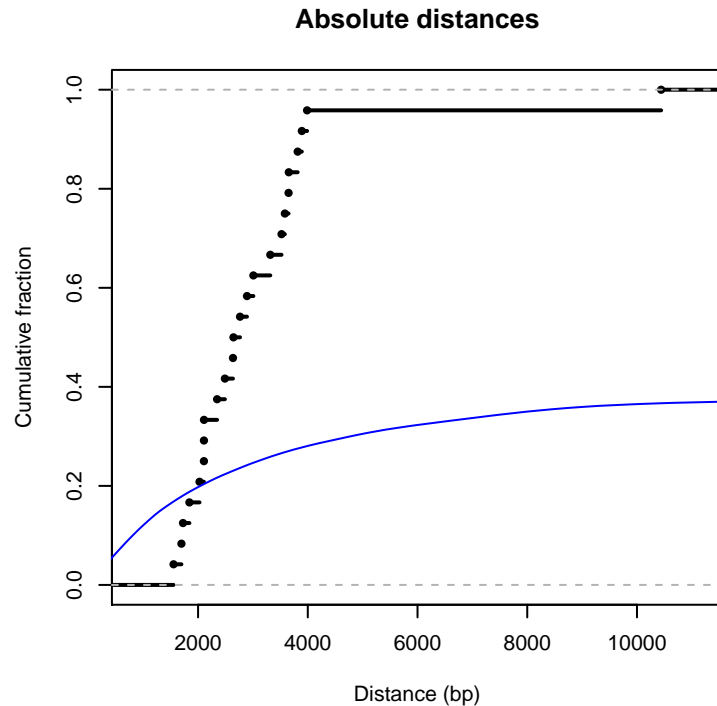
Query population : 19  
Reference population : 149  
Relative Ks p-value : 0.154038  
Relative ecdf deviation area : 0.0527908  
Relative ecdf area correlation : -0.201614  
Relative ecdf deviation area p-value : 0.18  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.255833  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0





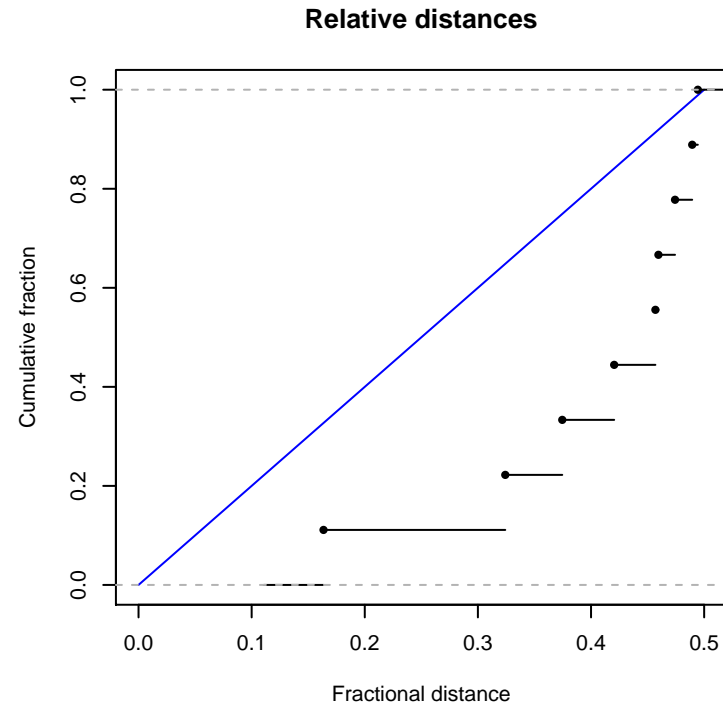
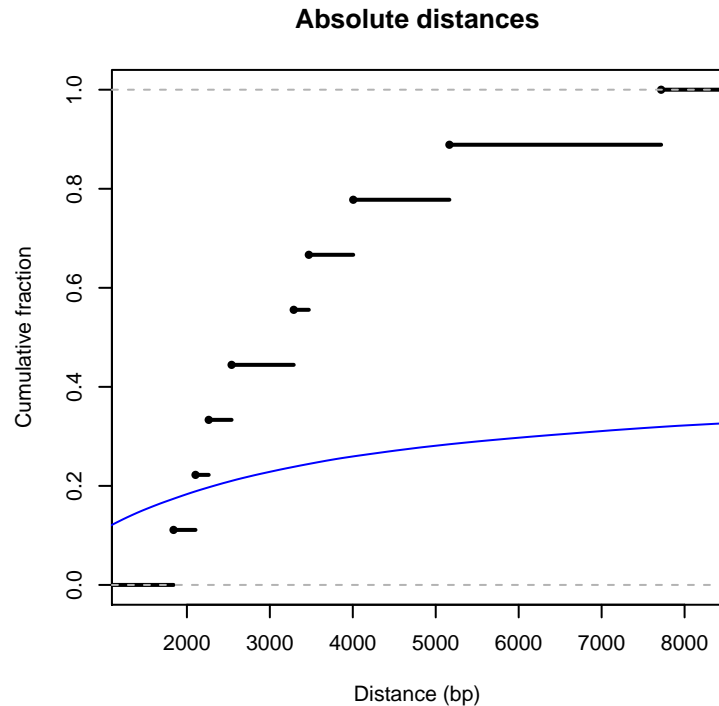
# pcontig\_033

Query population : 24  
Reference population : 197  
Relative Ks p-value : 0.0148265  
Relative ecdf deviation area : 0.0898715  
Relative ecdf area correlation : -0.360827  
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 : 0.136599  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_034

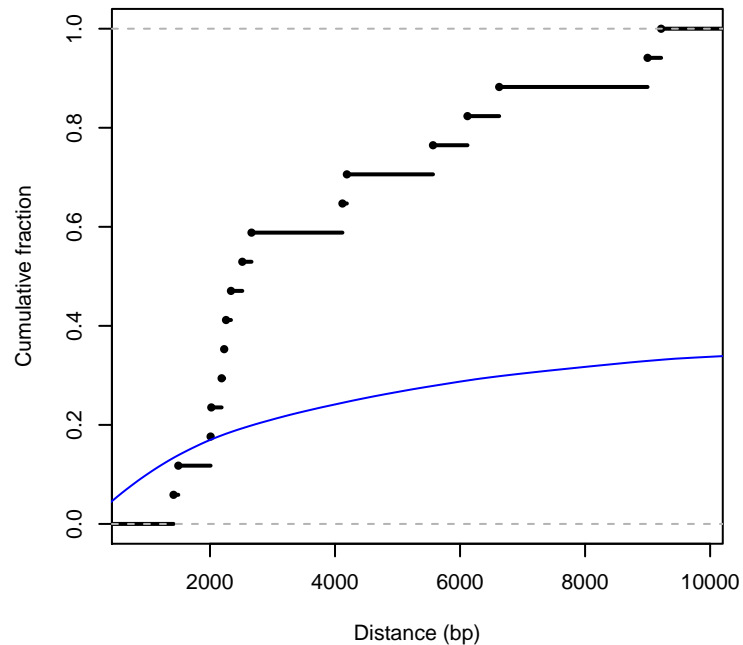
Query population : 9  
Reference population : 186  
Relative Ks p-value : 0.00589376  
Relative ecdf deviation area : 0.15654  
Relative ecdf area correlation : -0.625504  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.19  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.499899  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



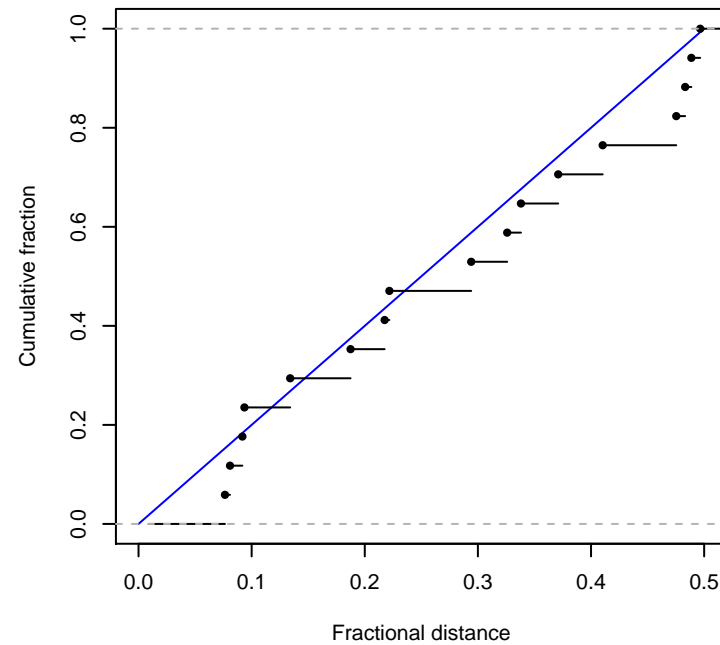
# pcontig\_035

Query population : 17  
Reference population : 164  
Relative Ks p-value : 0.538242  
Relative ecdf deviation area : 0.0330206  
Relative ecdf area correlation : -0.126257  
Relative ecdf deviation area p-value : 0.54  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.04  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.279103  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances

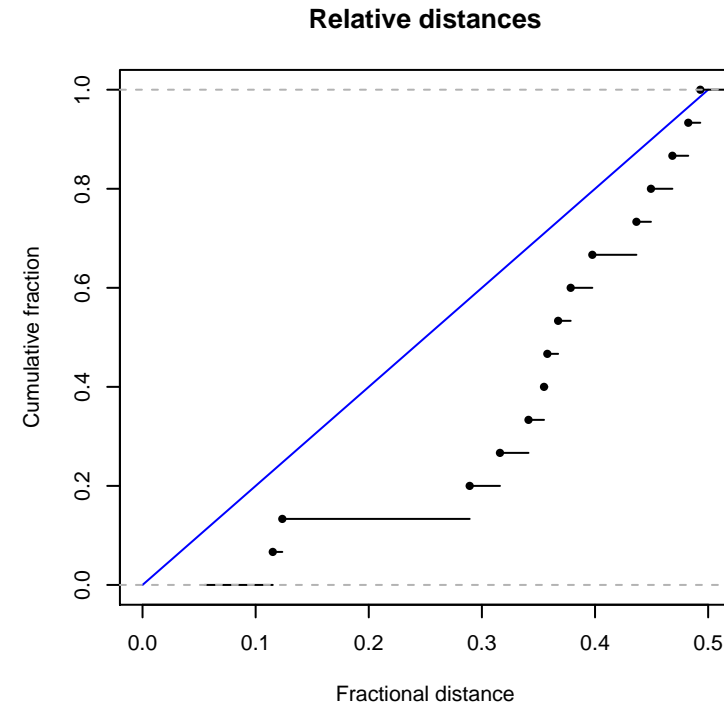
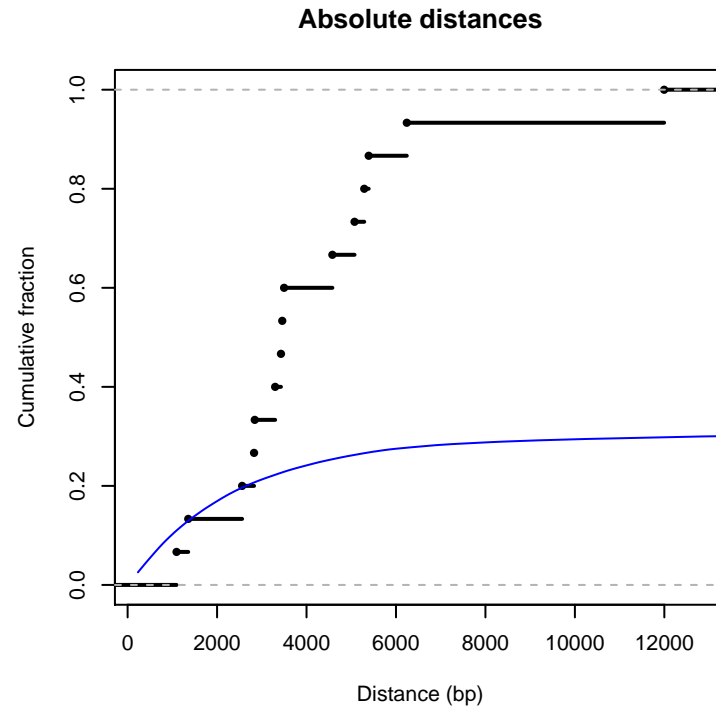


Relative distances



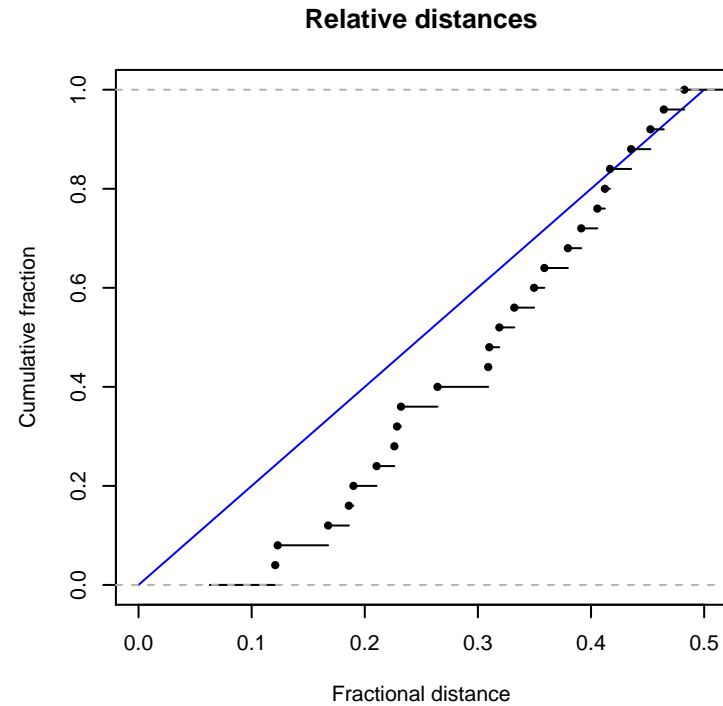
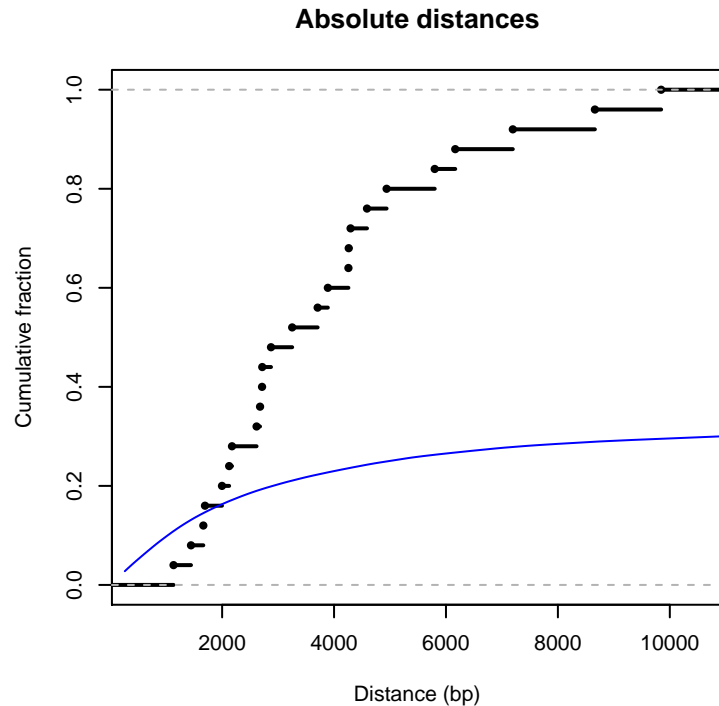
# pcontig\_036

Query population : 15  
Reference population : 169  
Relative Ks p-value : 0.00316148  
Relative ecdf deviation area : 0.108263  
Relative ecdf area correlation : -0.432315  
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 : 0.08  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.324324  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



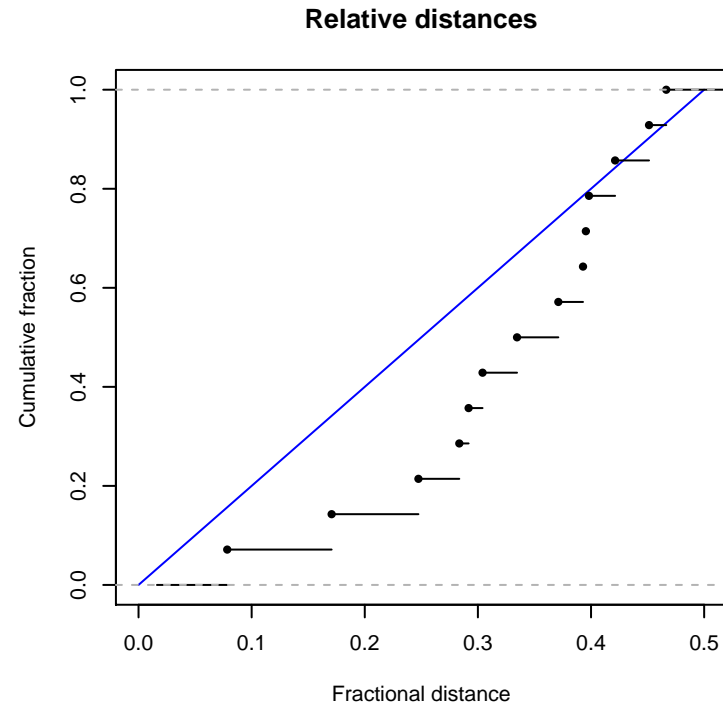
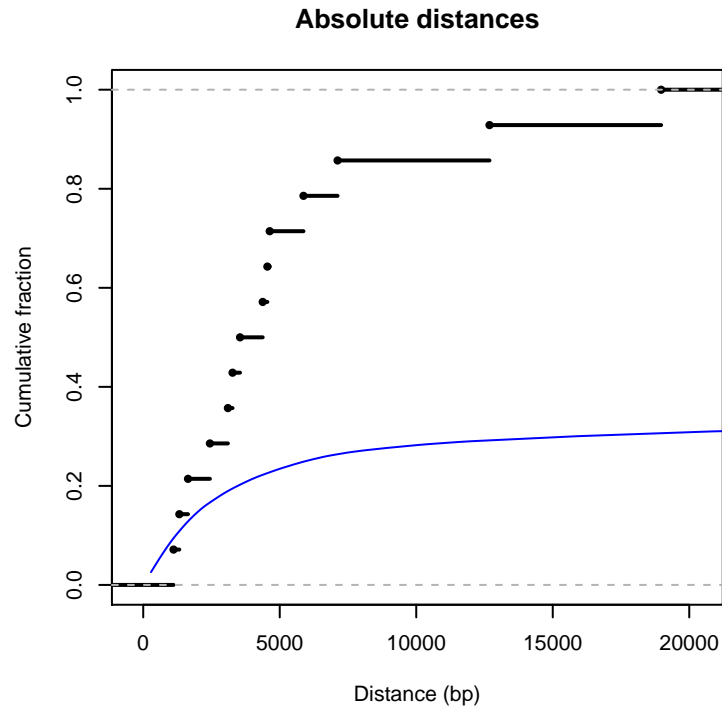
# pcontig\_037

Query population : 25  
Reference population : 163  
Relative Ks p-value : 0.063644  
Relative ecdf deviation area : 0.062112  
Relative ecdf area correlation : -0.242862  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.136191  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



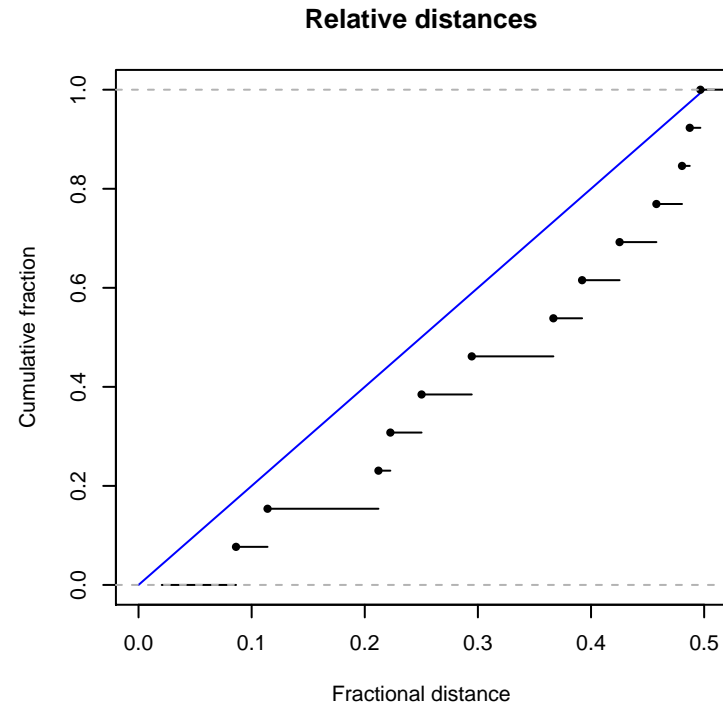
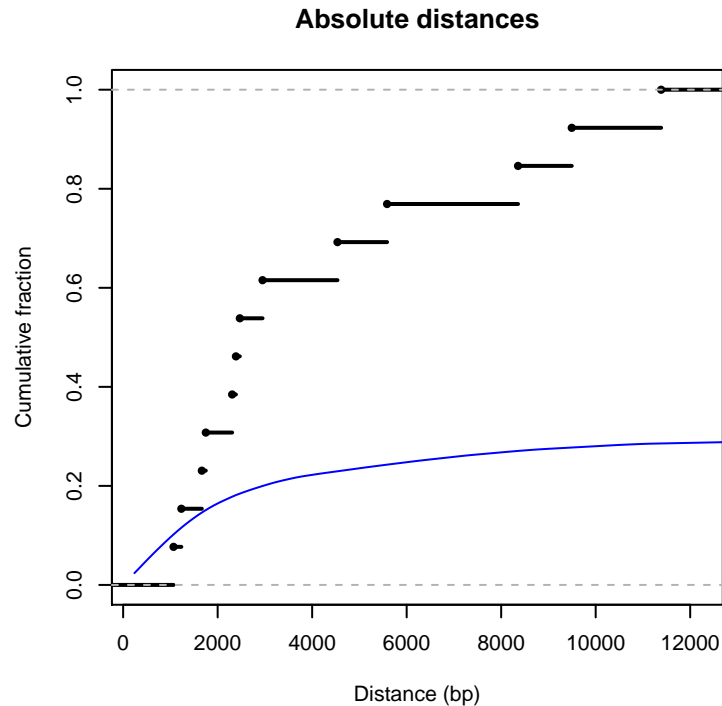
# pcontig\_039

Query population : 14  
Reference population : 139  
Relative Ks p-value : 0.0459804  
Relative ecdf deviation area : 0.0820314  
Relative ecdf area correlation : -0.316361  
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 : 0.05  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.344246  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



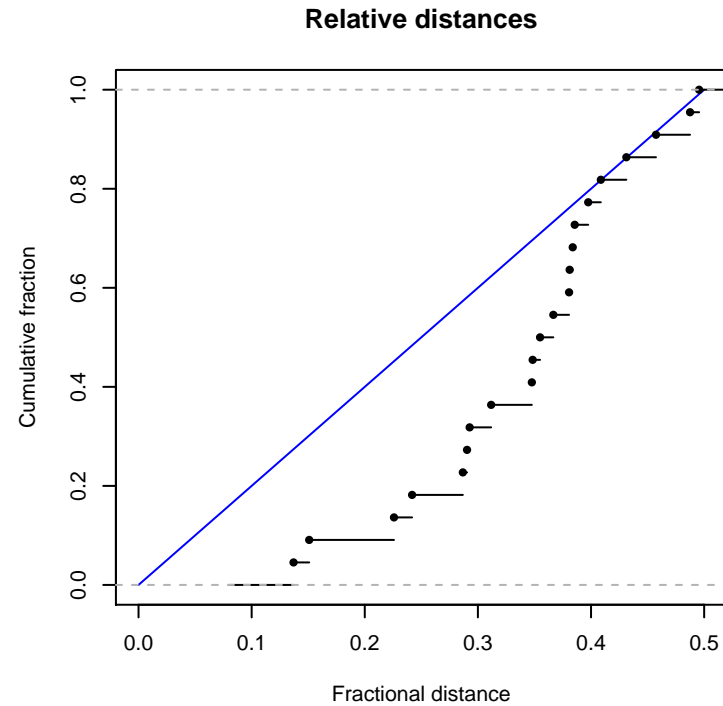
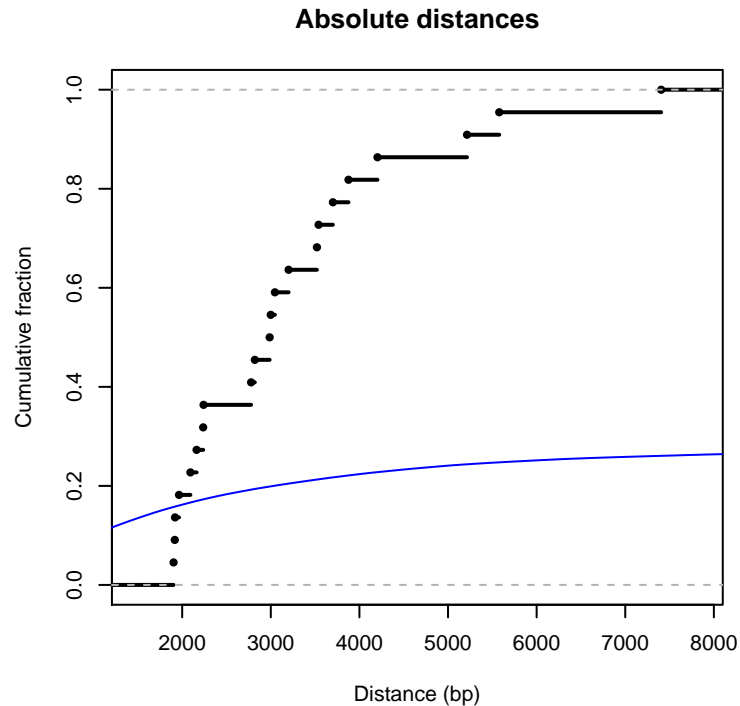
# pcontig\_040

Query population : 13  
Reference population : 153  
Relative Ks p-value : 0.243407  
Relative ecdf deviation area : 0.0797624  
Relative ecdf area correlation : -0.318762  
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 : 0.08  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.344788  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



# pcontig\_041

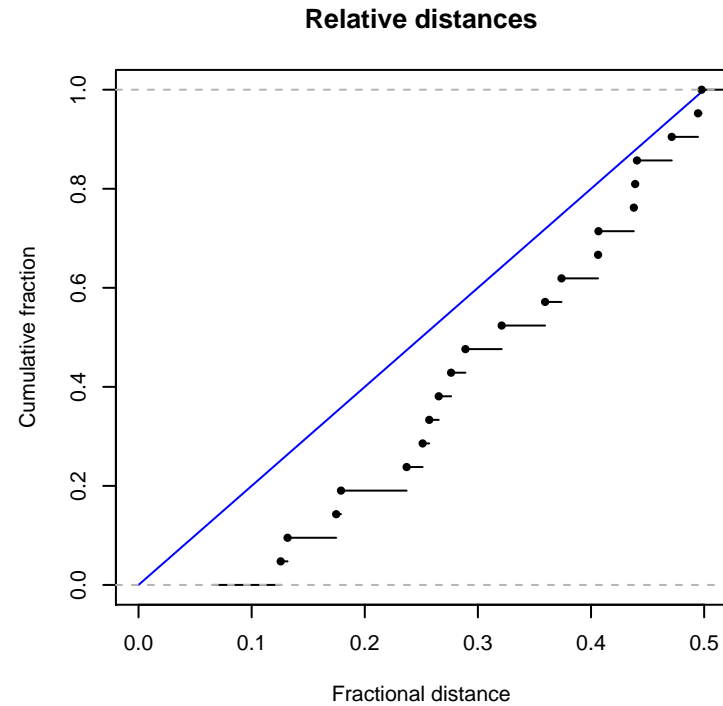
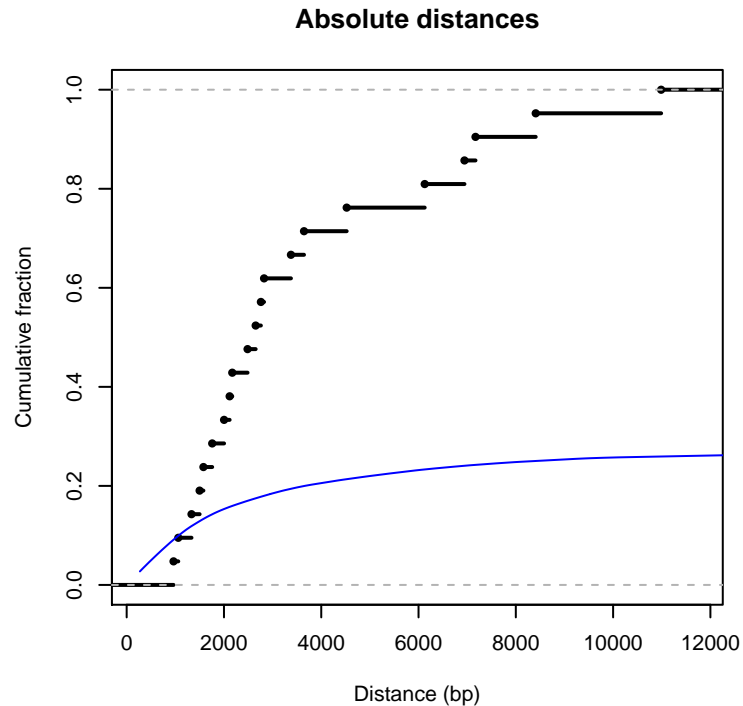
Query population : 22  
Reference population : 165  
Relative Ks p-value : 0.00150081  
Relative ecdf deviation area : 0.0940844  
Relative ecdf area correlation : -0.375241  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.188237  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0





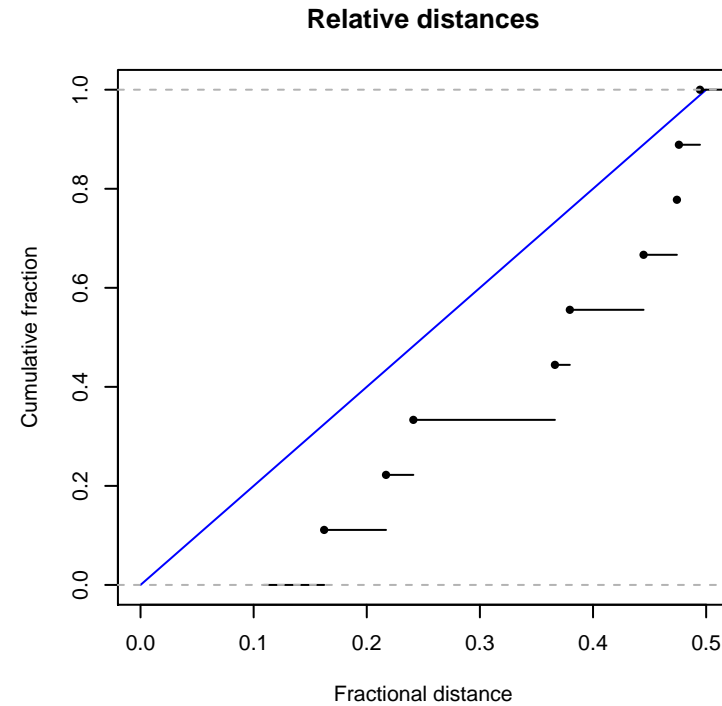
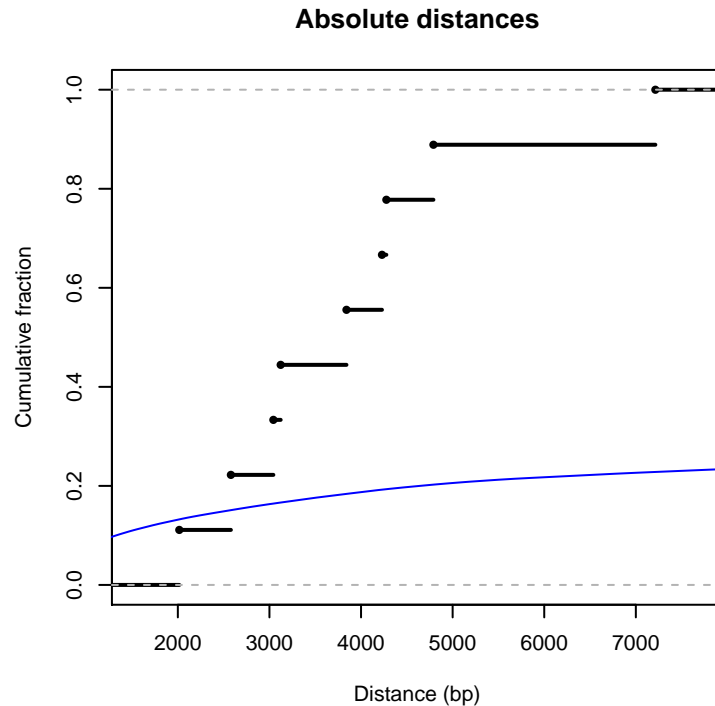
# pcontig\_042

Query population : 21  
Reference population : 154  
Relative Ks p-value : 0.0549954  
Relative ecdf deviation area : 0.0753245  
Relative ecdf area correlation : -0.301951  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.04  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.215052  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



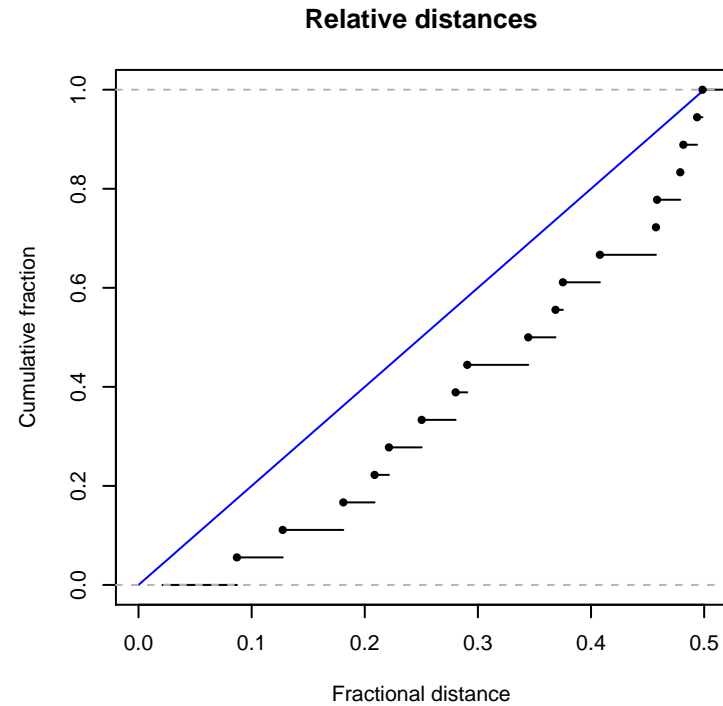
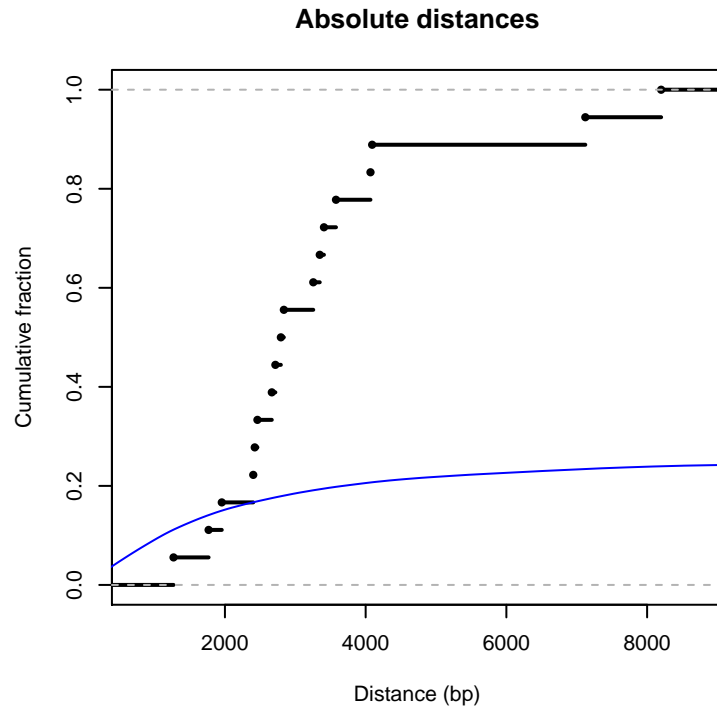
# pcontig\_043

Query population : 9  
Reference population : 125  
Relative Ks p-value : 0.0830713  
Relative ecdf deviation area : 0.112325  
Relative ecdf area correlation : -0.446944  
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 : 0.25  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.409427  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



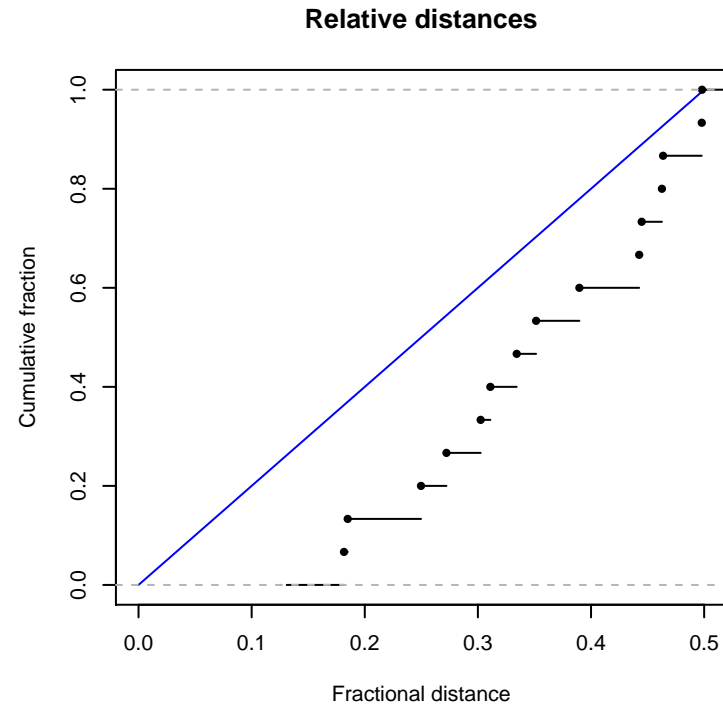
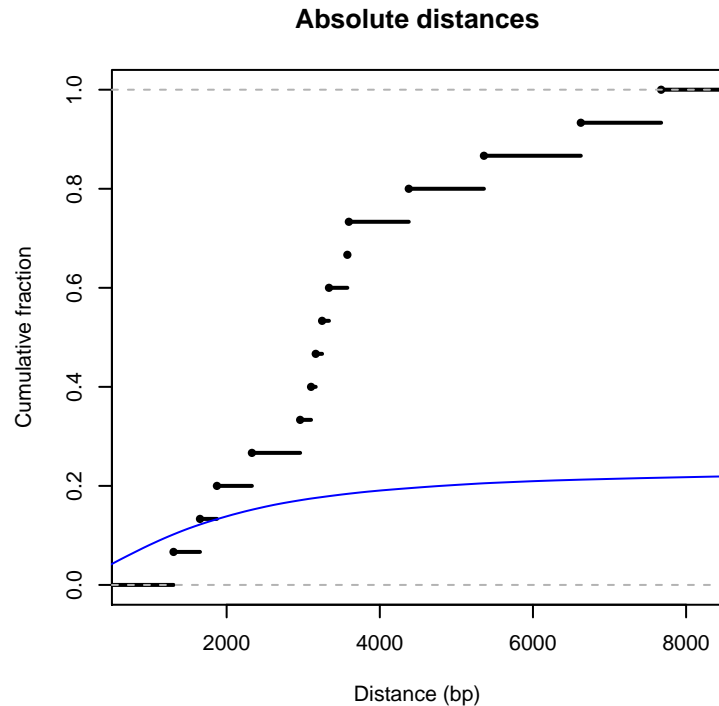
# pcontig\_044

Query population : 18  
Reference population : 146  
Relative Ks p-value : 0.174039  
Relative ecdf deviation area : 0.0840159  
Relative ecdf area correlation : -0.335833  
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 : 0.08  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.26695  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



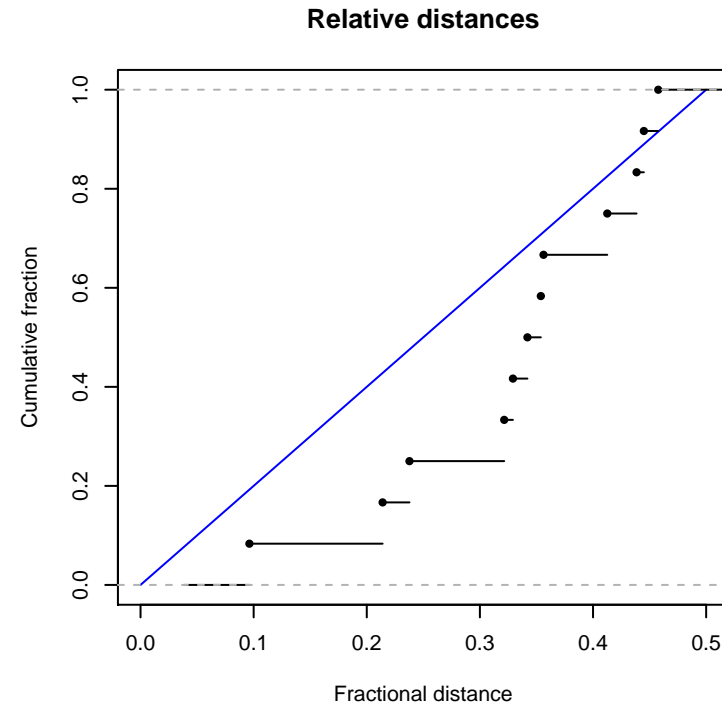
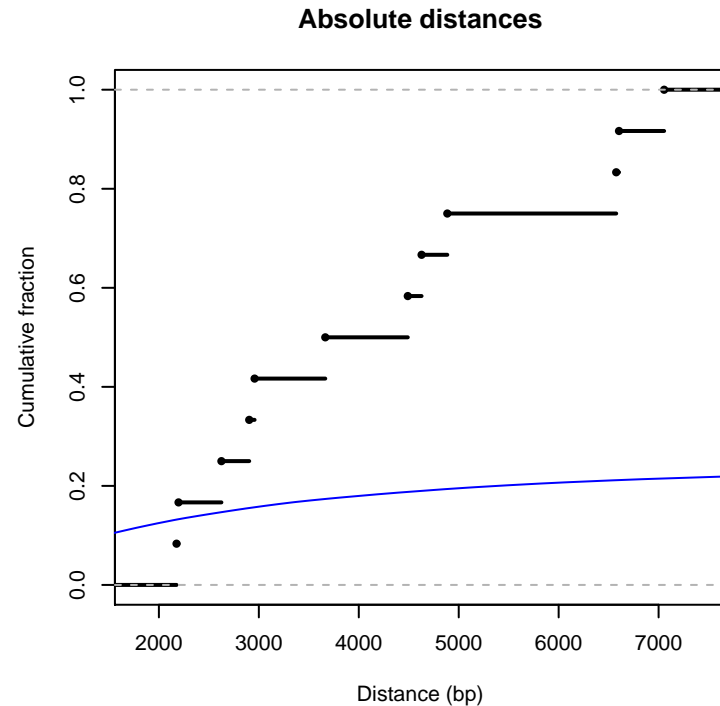
# pcontig\_045

Query population : 15  
Reference population : 130  
Relative Ks p-value : 0.0261209  
Relative ecdf deviation area : 0.109155  
Relative ecdf area correlation : -0.436541  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.13  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.342973  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



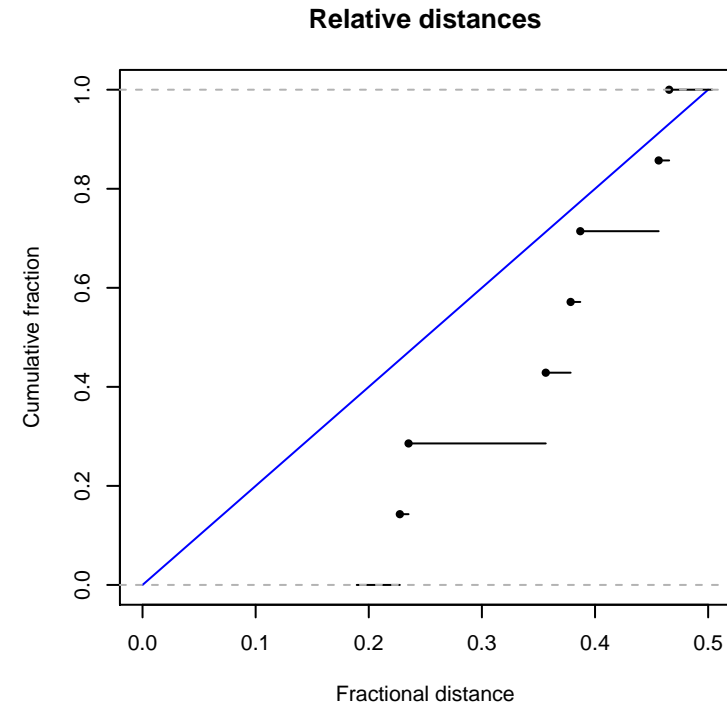
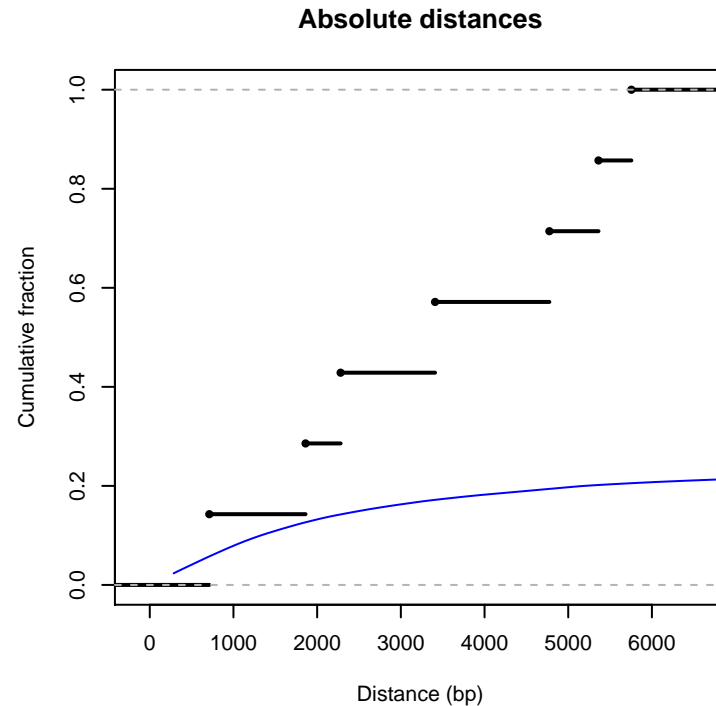
# pcontig\_046

Query population : 12  
Reference population : 123  
Relative Ks p-value : 0.0351184  
Relative ecdf deviation area : 0.0876873  
Relative ecdf area correlation : -0.334818  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.16  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.474316  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



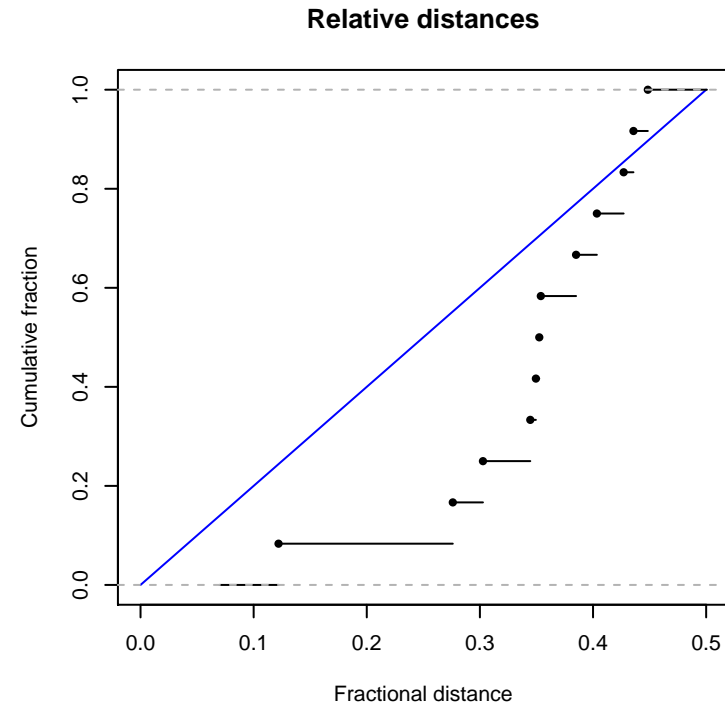
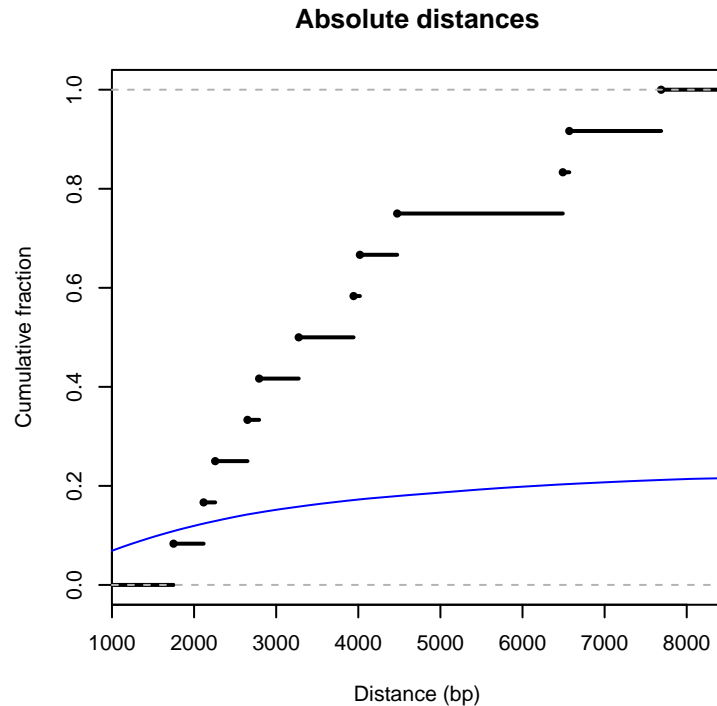
# pcontig\_047

Query population : 7  
Reference population : 126  
Relative Ks p-value : 0.0767422  
Relative ecdf deviation area : 0.110131  
Relative ecdf area correlation : -0.432165  
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 : 0.34  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.405185  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



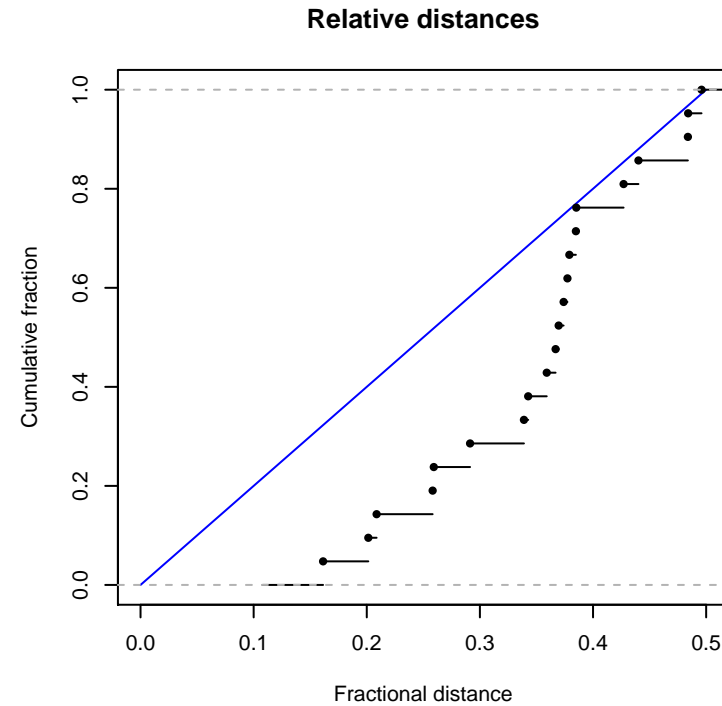
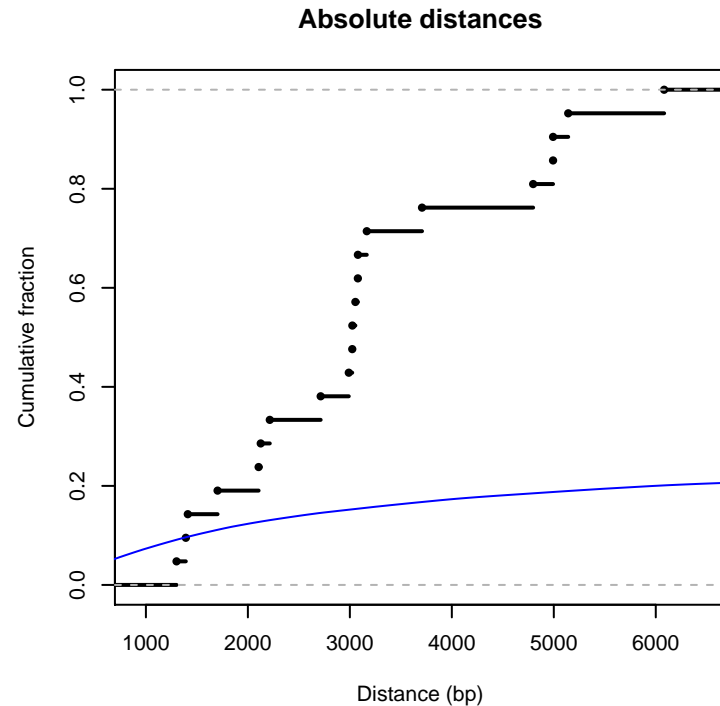
# pcontig\_048

Query population : 12  
Reference population : 113  
Relative Ks p-value : 0.00613808  
Relative ecdf deviation area : 0.106161  
Relative ecdf area correlation : -0.400249  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.21  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.483746  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_049

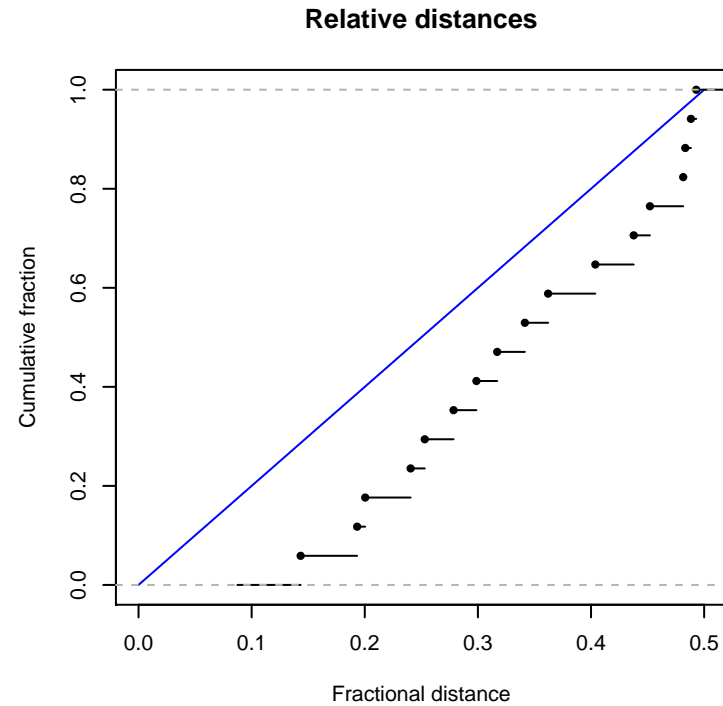
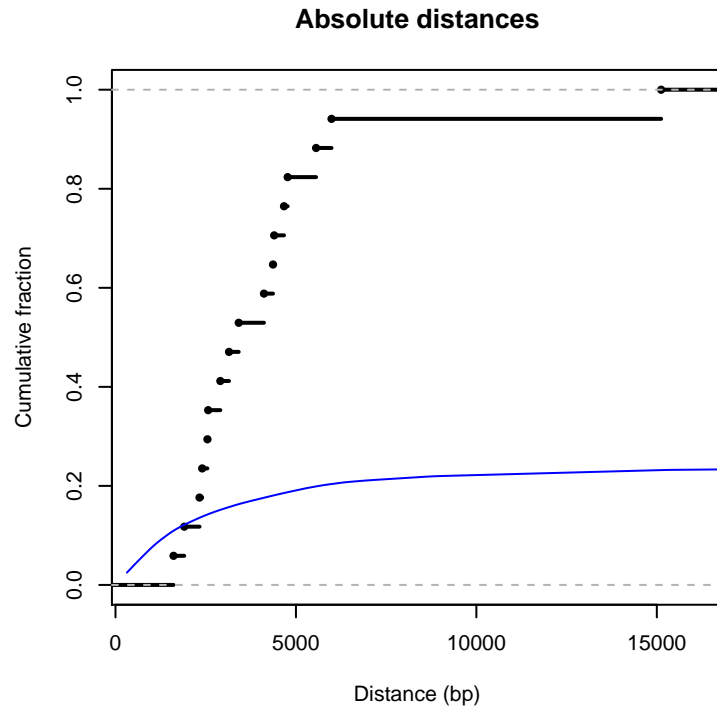
Query population : 21  
Reference population : 118  
Relative Ks p-value : 0.00202096  
Relative ecdf deviation area : 0.101886  
Relative ecdf area correlation : -0.407438  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.252394  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0





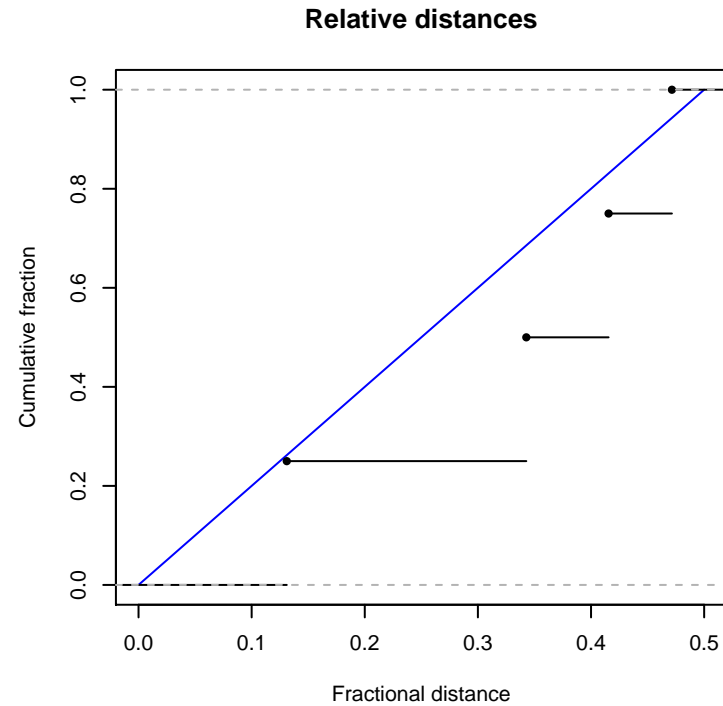
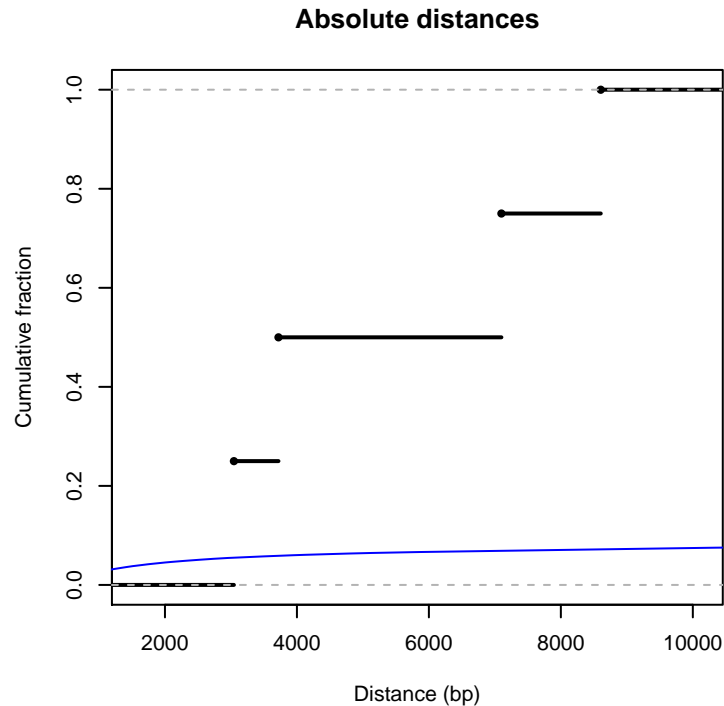
# pcontig\_050

Query population : 17  
Reference population : 120  
Relative Ks p-value : 0.0398038  
Relative ecdf deviation area : 0.0955194  
Relative ecdf area correlation : -0.380704  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.1  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.355622  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



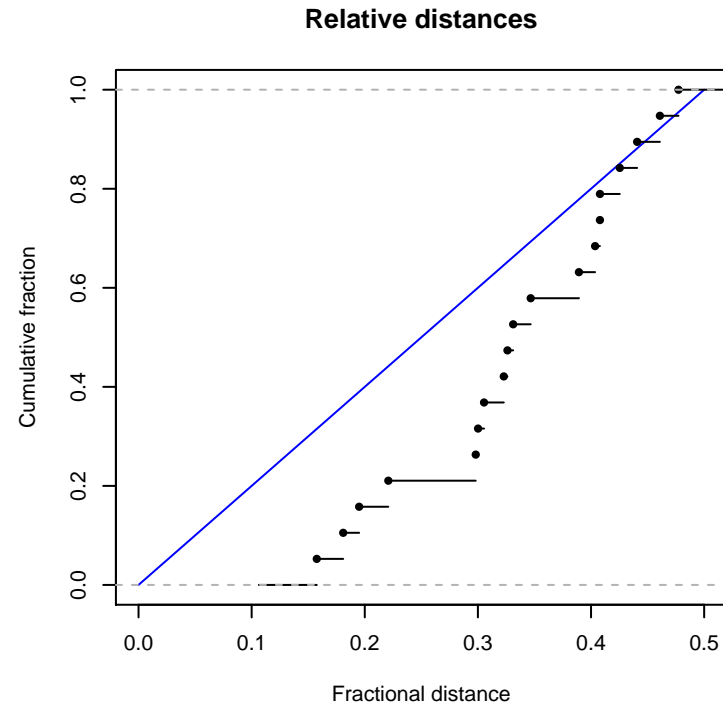
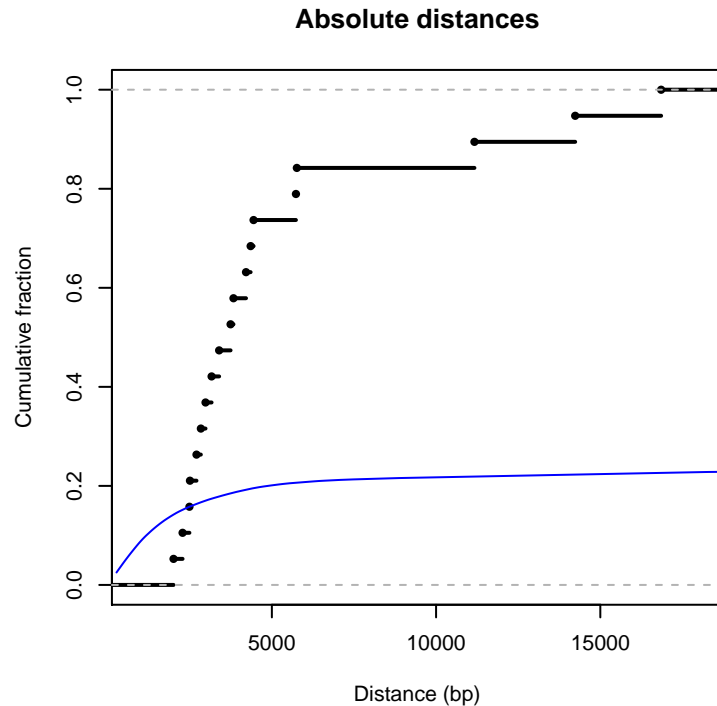
# pcontig\_051

Query population : 4  
Reference population : 44  
Relative Ks p-value : 0.331206  
Relative ecdf deviation area : 0.0919115  
Relative ecdf area correlation : -0.36086  
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 : 0.14  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0717866  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



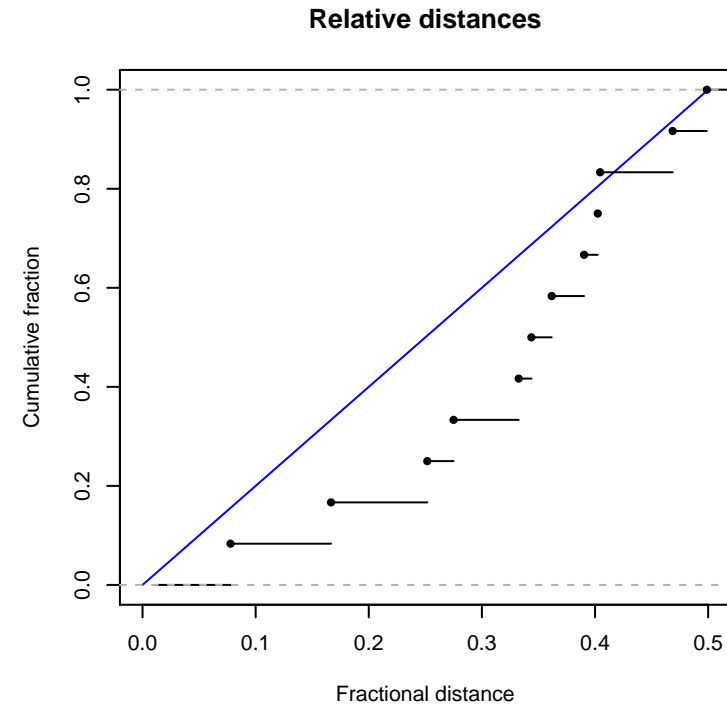
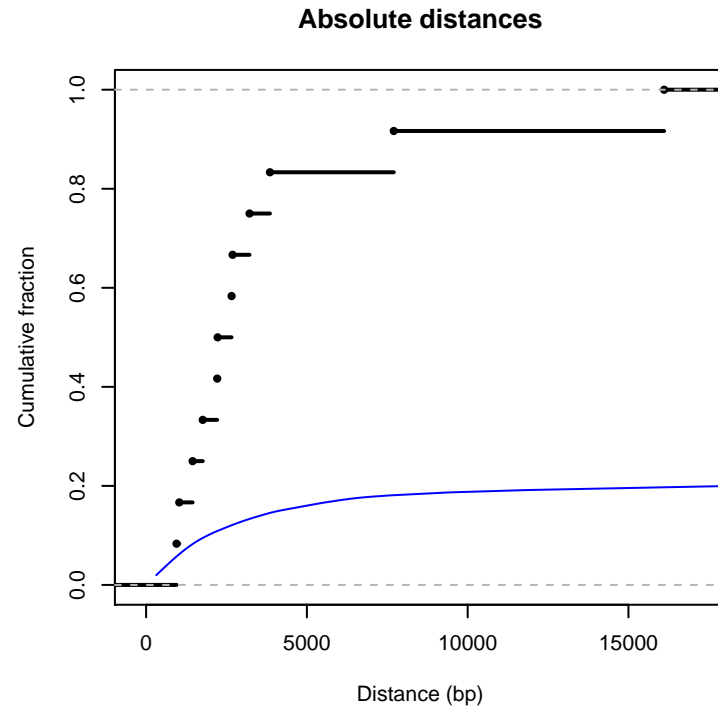
# pcontig\_052

Query population : 19  
Reference population : 143  
Relative Ks p-value : 0.00471436  
Relative ecdf deviation area : 0.0880794  
Relative ecdf area correlation : -0.34692  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.09  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.267635  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0



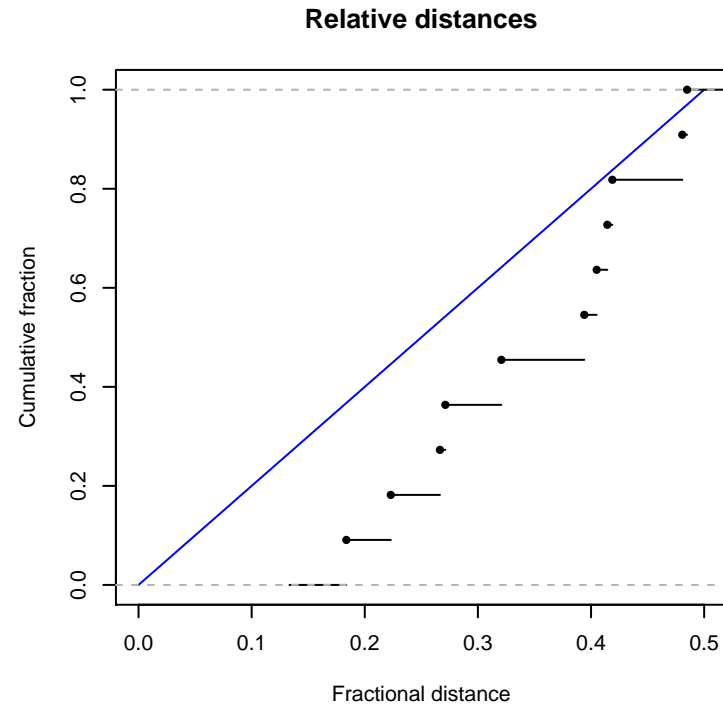
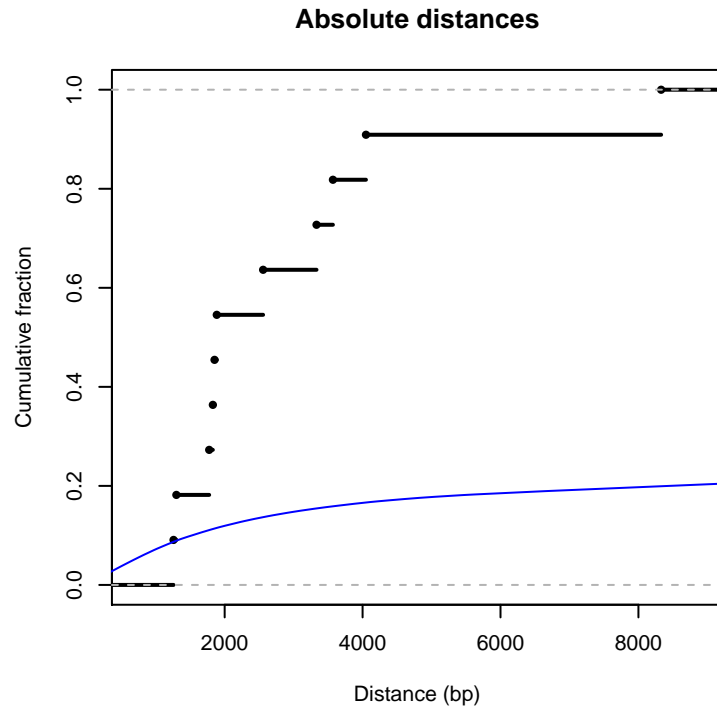
# pcontig\_054

Query population : 12  
Reference population : 96  
Relative Ks p-value : 0.102405  
Relative ecdf deviation area : 0.0820616  
Relative ecdf area correlation : -0.324597  
Relative ecdf deviation area p-value : 0.13  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.37  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.41983  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



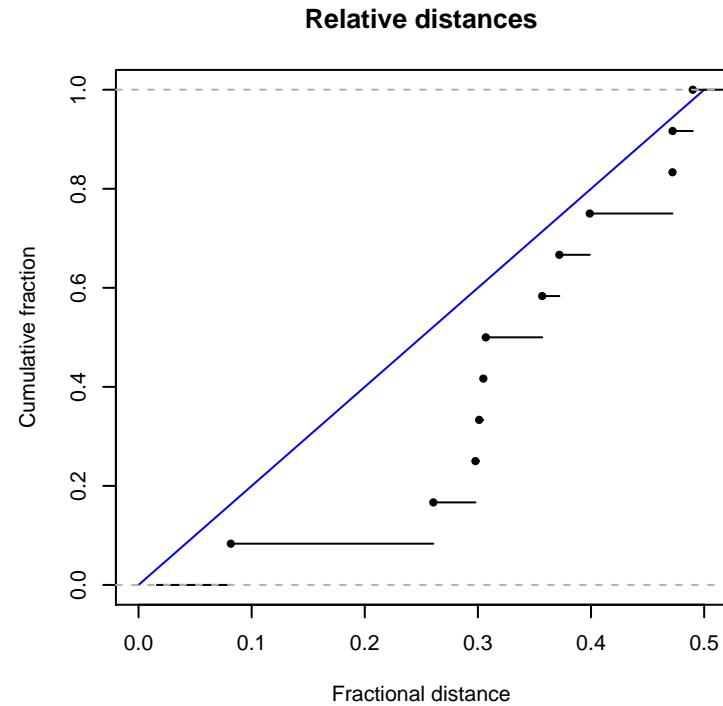
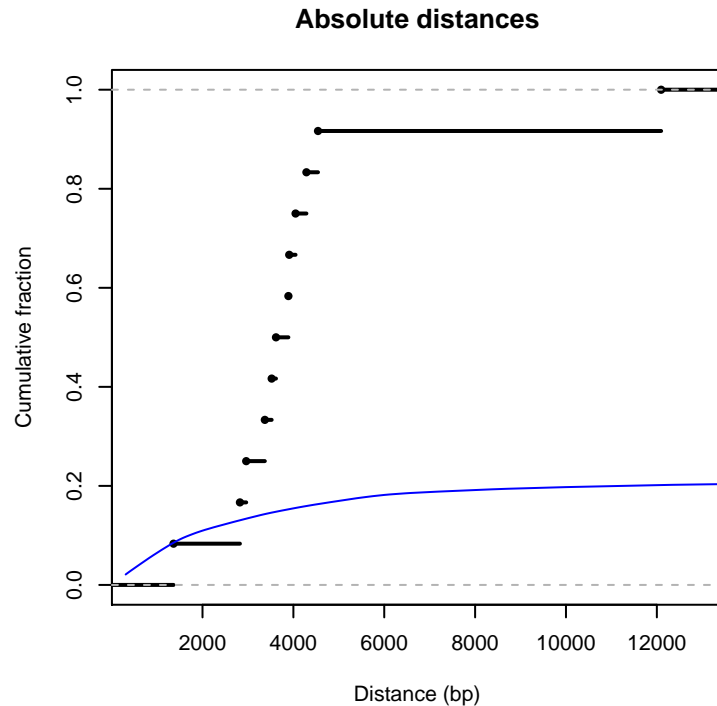
# pcontig\_055

Query population : 11  
Reference population : 117  
Relative Ks p-value : 0.07736  
Relative ecdf deviation area : 0.101521  
Relative ecdf area correlation : -0.404735  
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 : 0.33  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.49037  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



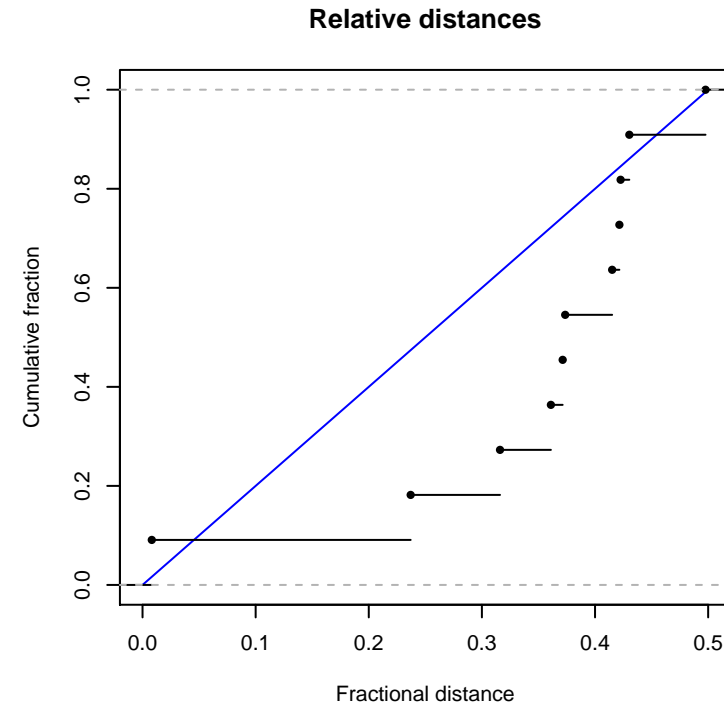
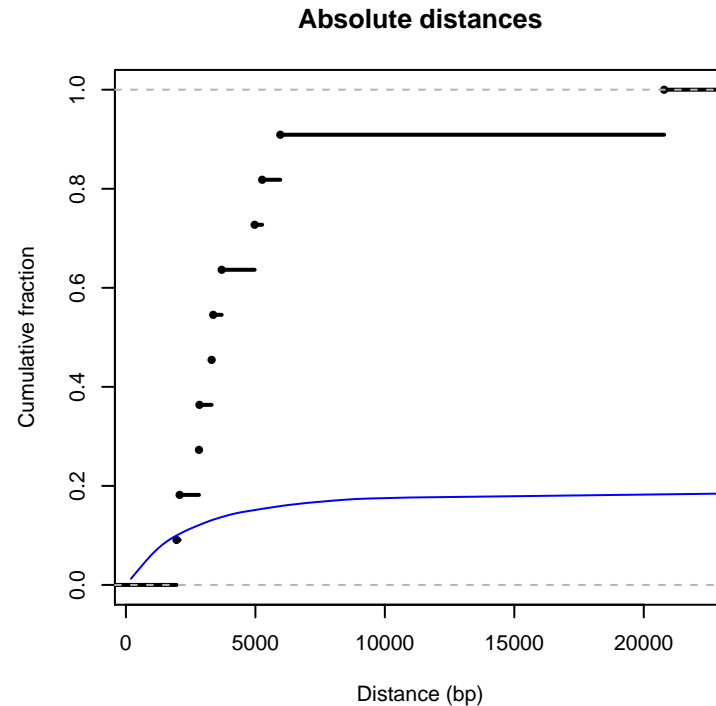
# pcontig\_056

Query population : 12  
Reference population : 105  
Relative Ks p-value : 0.0130537  
Relative ecdf deviation area : 0.0926682  
Relative ecdf area correlation : -0.371547  
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 : 0.22  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.442124  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



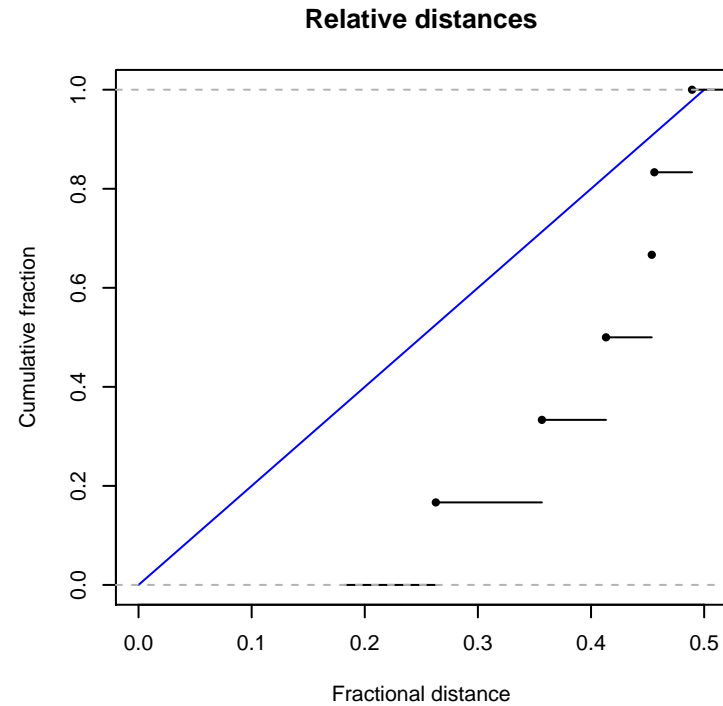
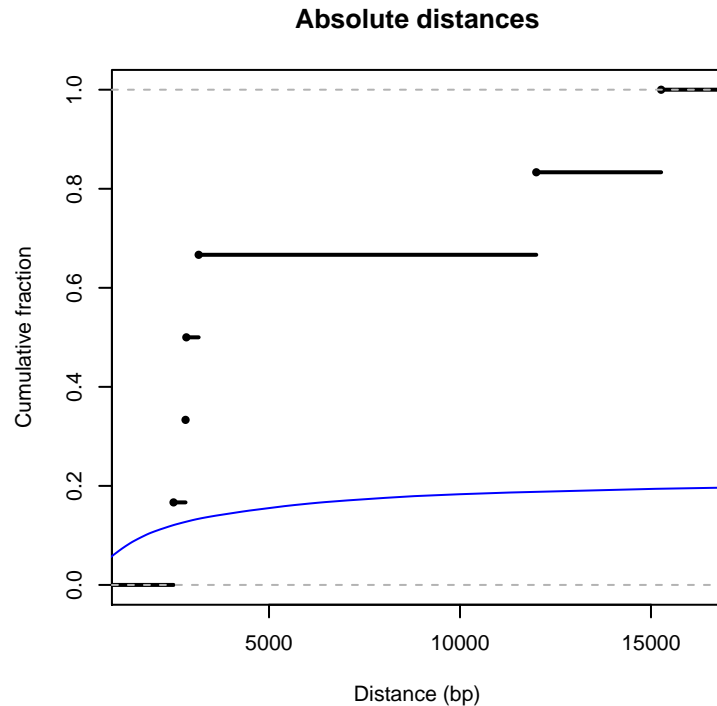
# pcontig\_057

Query population : 11  
Reference population : 98  
Relative Ks p-value : 0.014894  
Relative ecdf deviation area : 0.104329  
Relative ecdf area correlation : -0.401656  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.33  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.430093  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_058

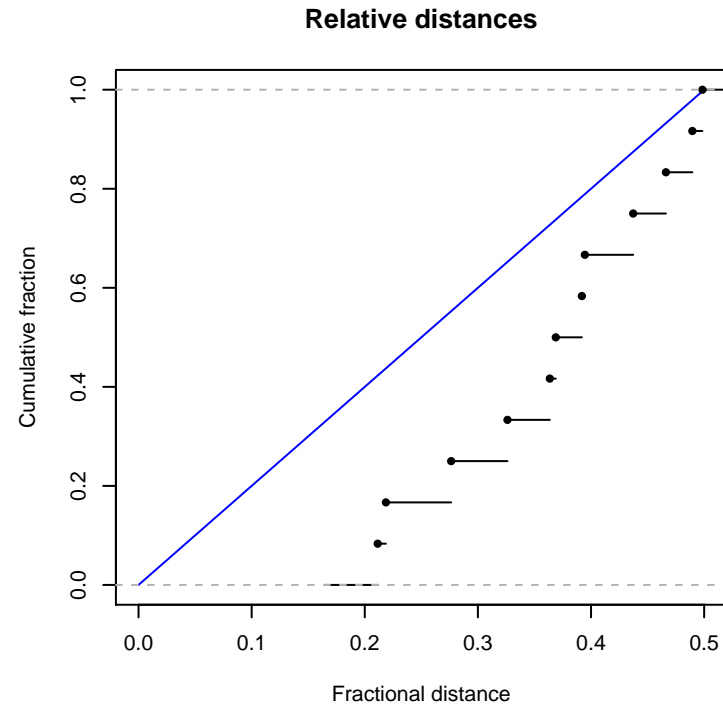
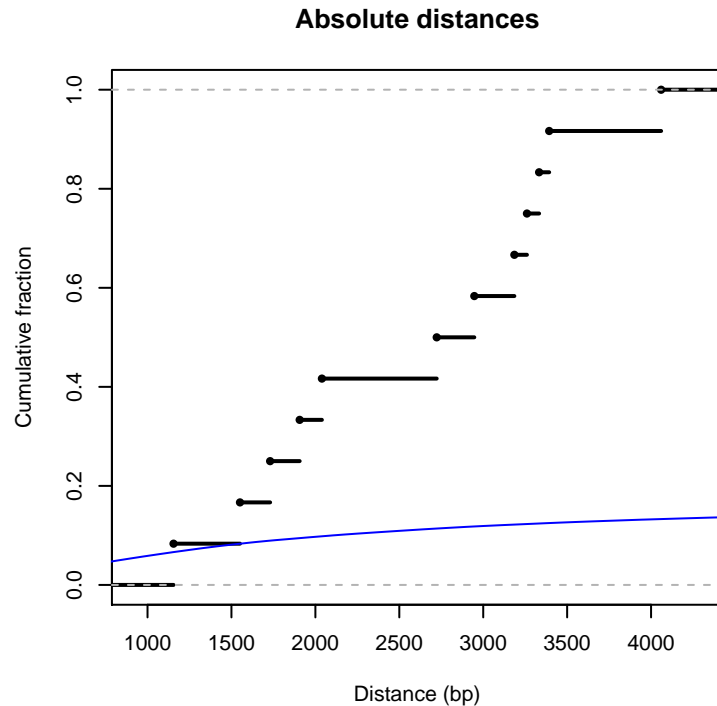
Query population : 6  
Reference population : 104  
Relative Ks p-value : 0.033169  
Relative ecdf deviation area : 0.155524  
Relative ecdf area correlation : -0.621019  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.47  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.276889  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





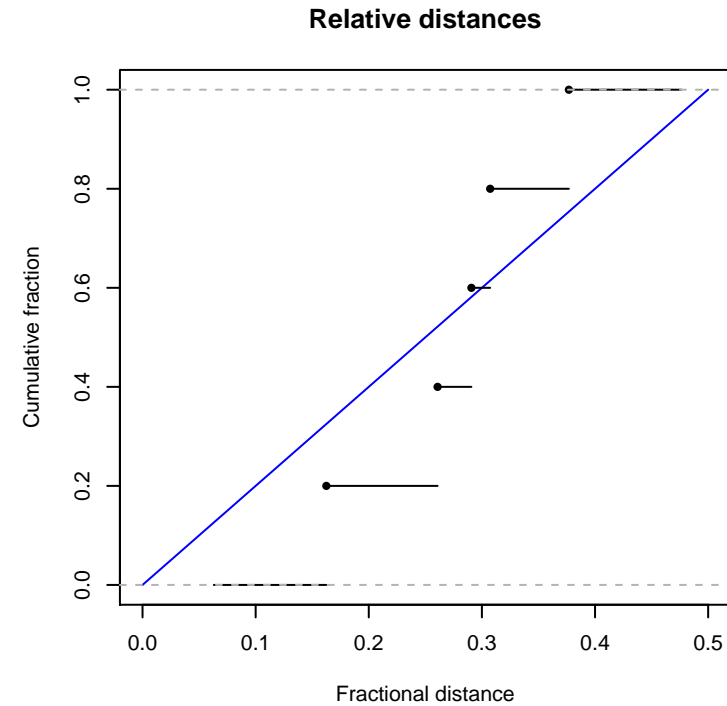
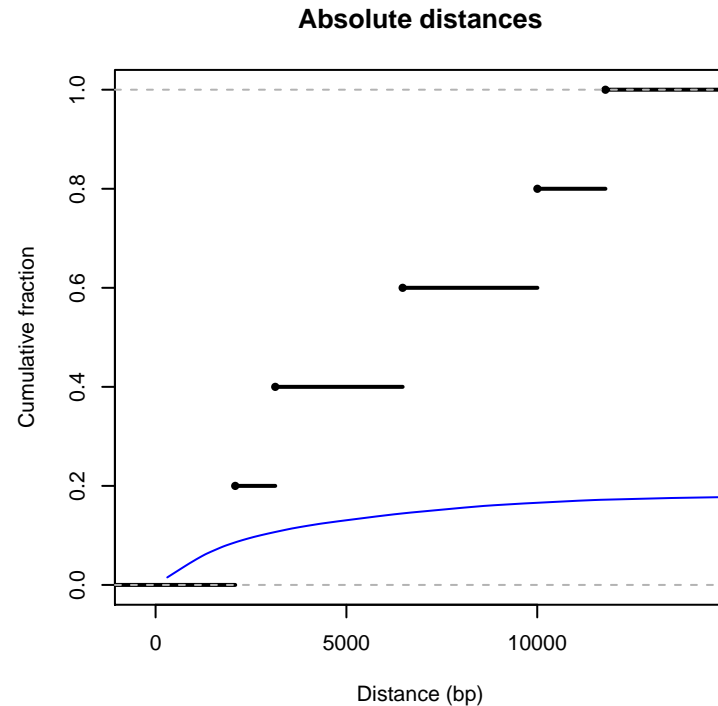
# pcontig\_059

Query population : 12  
Reference population : 95  
Relative Ks p-value : 0.0184234  
Relative ecdf deviation area : 0.119749  
Relative ecdf area correlation : -0.481002  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.3  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.459002  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



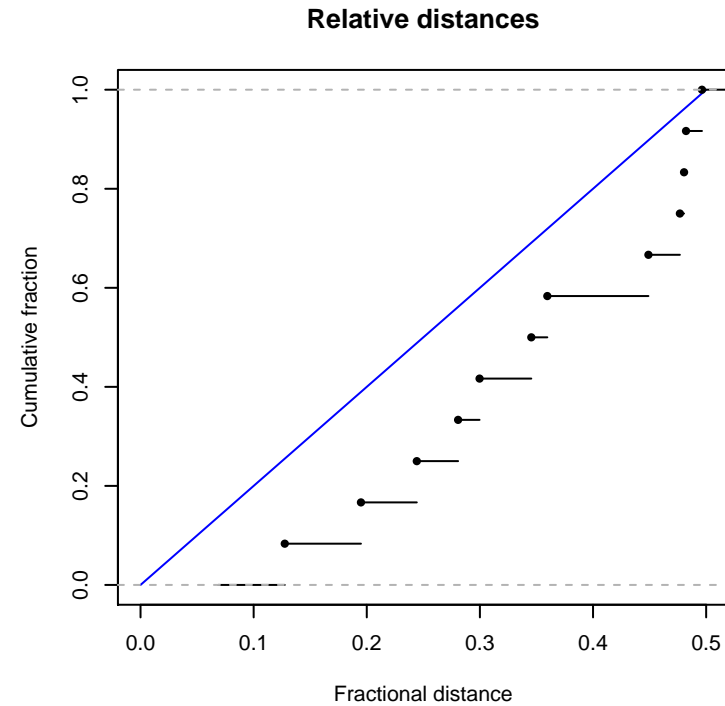
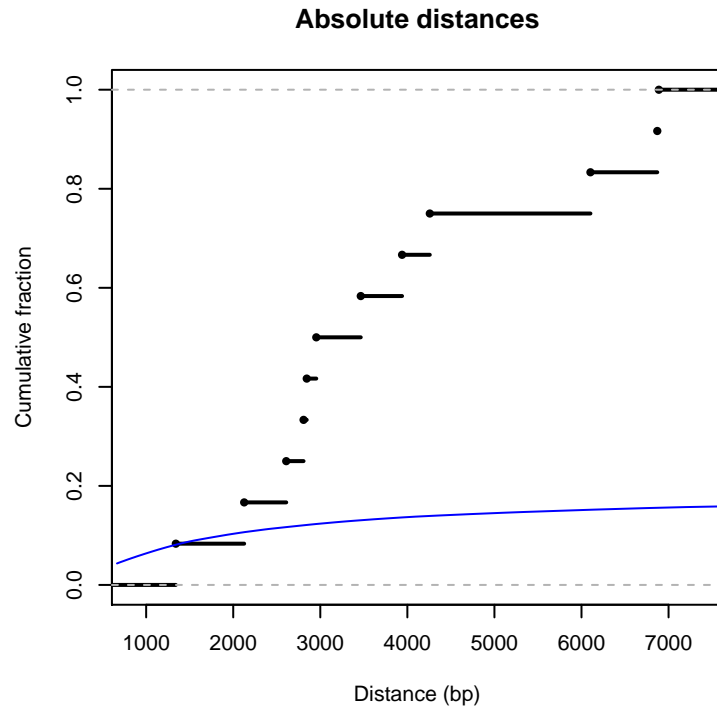
# pcontig\_060

Query population : 5  
Reference population : 76  
Relative Ks p-value : 0.565491  
Relative ecdf deviation area : 0.076287  
Relative ecdf area correlation : -0.118601  
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 : 0.43  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.21372  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



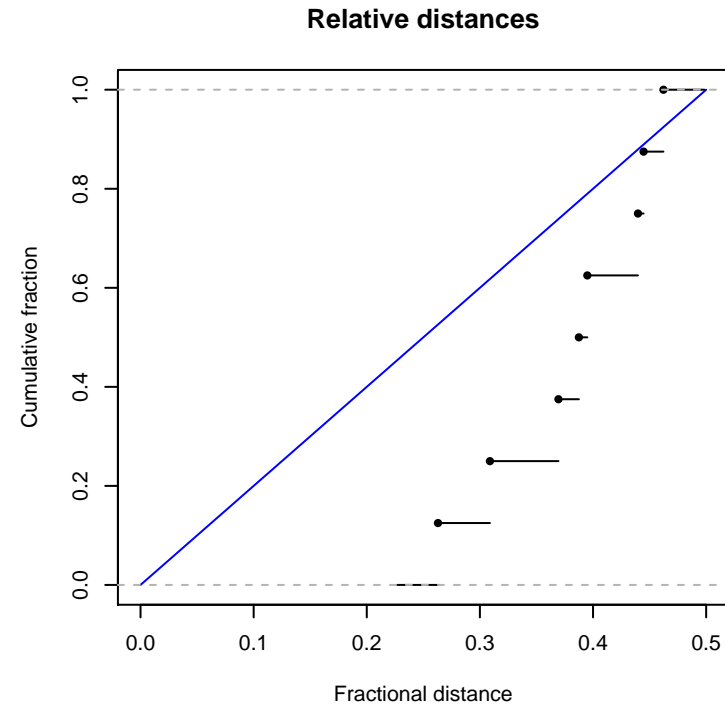
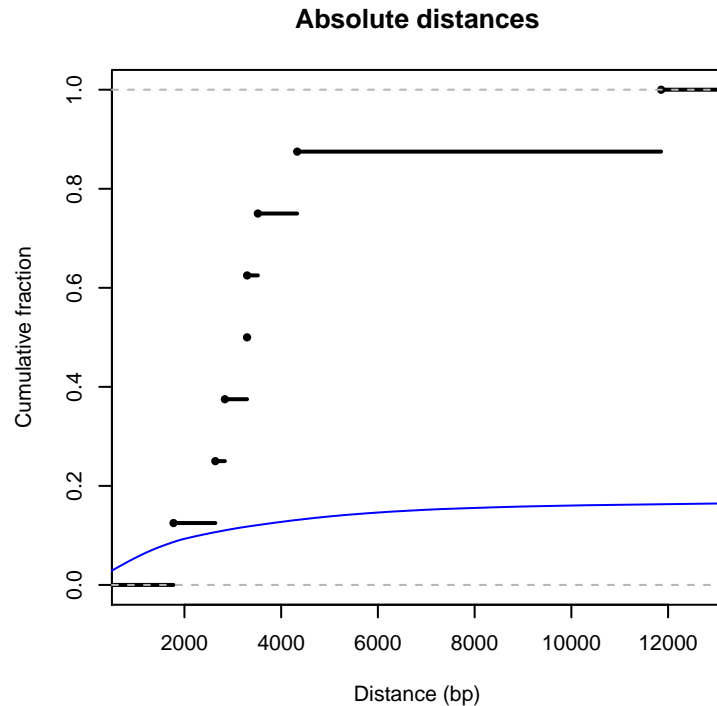
# pcontig\_062

Query population : 12  
Reference population : 100  
Relative Ks p-value : 0.132267  
Relative ecdf deviation area : 0.103302  
Relative ecdf area correlation : -0.412268  
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 : 0.27  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.463718  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



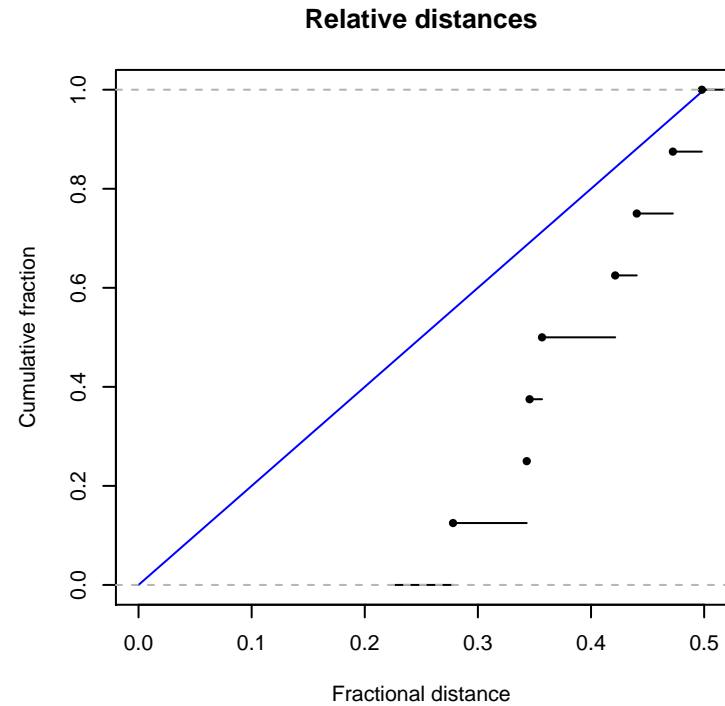
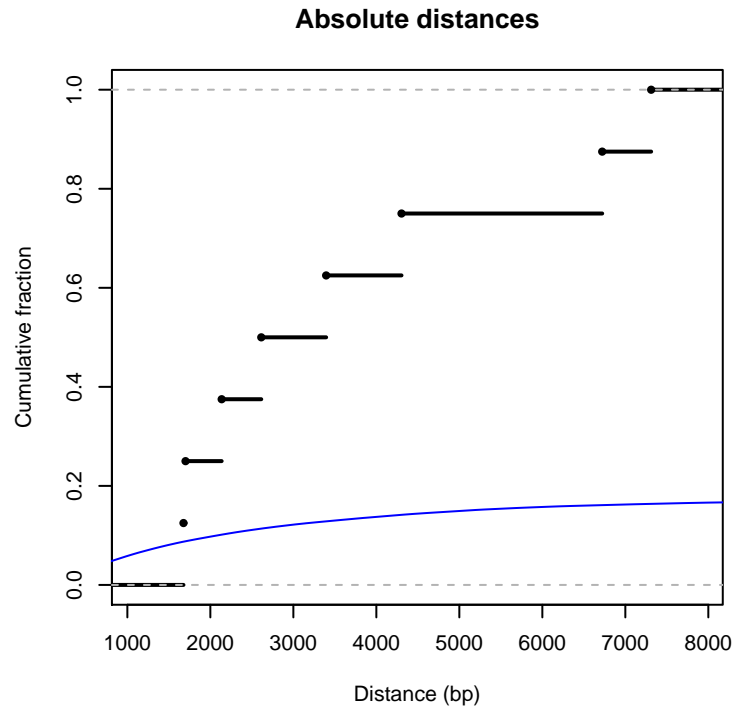
# pcontig\_064

Query population : 8  
Reference population : 89  
Relative Ks p-value : 0.0137687  
Relative ecdf deviation area : 0.136694  
Relative ecdf area correlation : -0.5352  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.43  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.300944  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



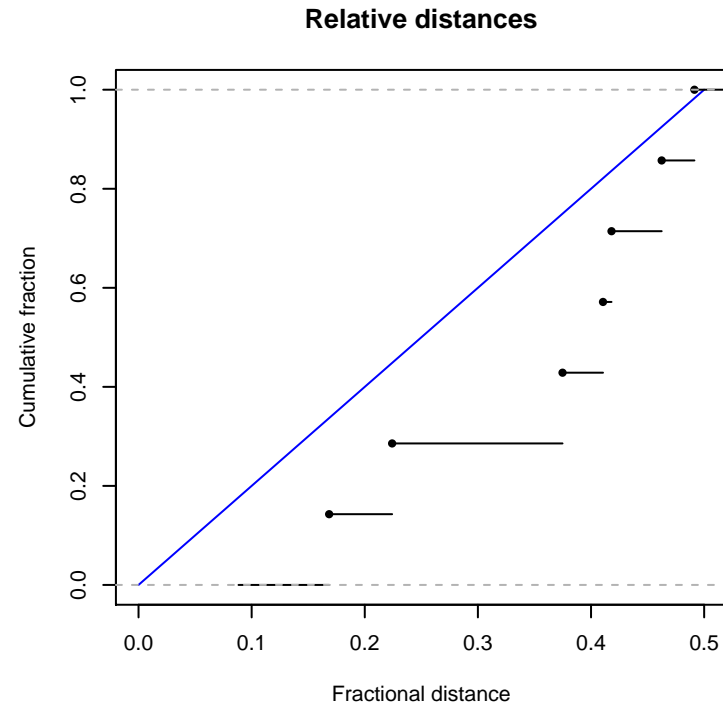
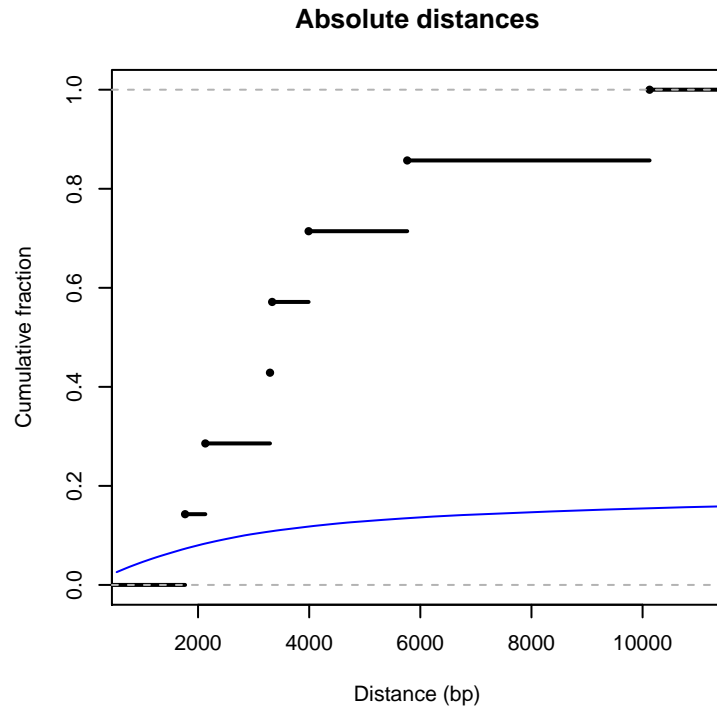
# pcontig\_065

Query population : 8  
Reference population : 95  
Relative Ks p-value : 0.00663549  
Relative ecdf deviation area : 0.144421  
Relative ecdf area correlation : -0.577876  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.47  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.309962  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



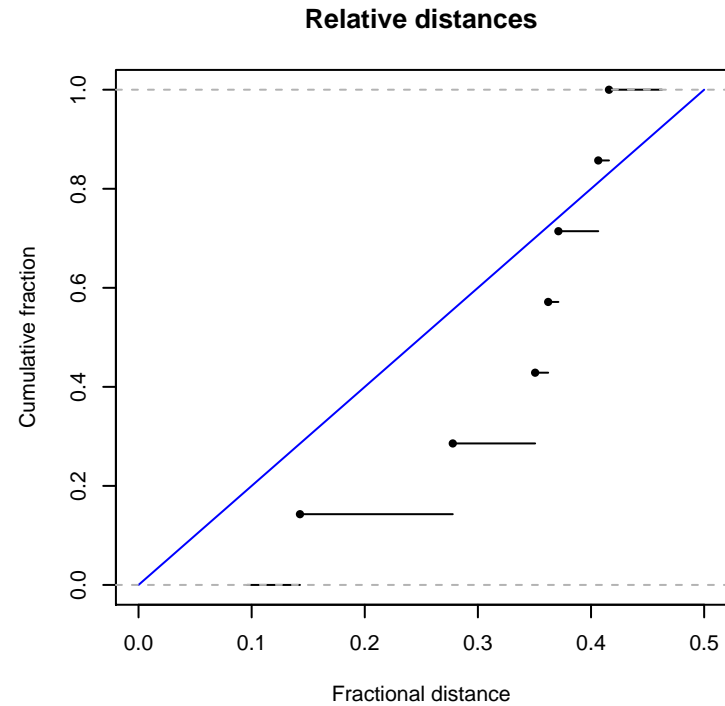
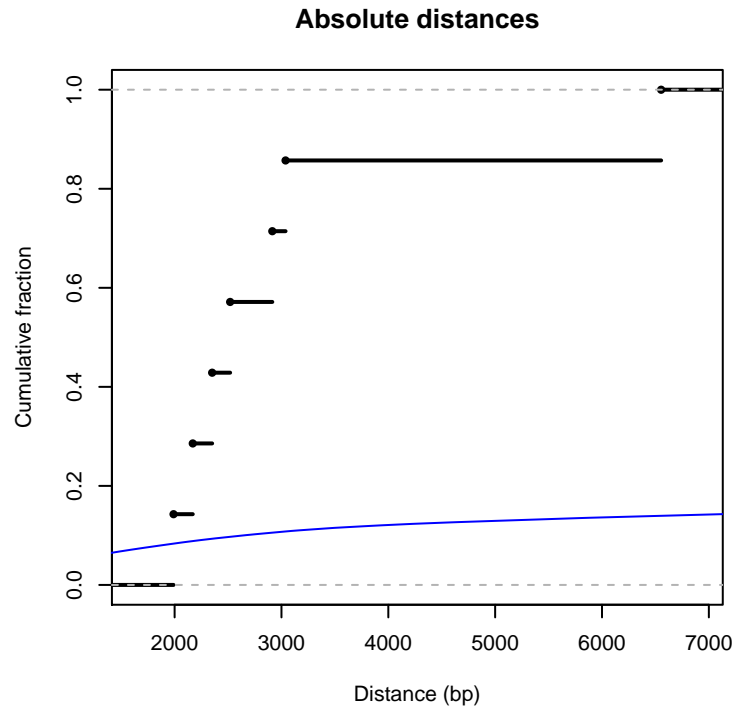
# pcontig\_066

Query population : 7  
Reference population : 74  
Relative Ks p-value : 0.0672899  
Relative ecdf deviation area : 0.114727  
Relative ecdf area correlation : -0.457189  
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 : 0.36  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.196301  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



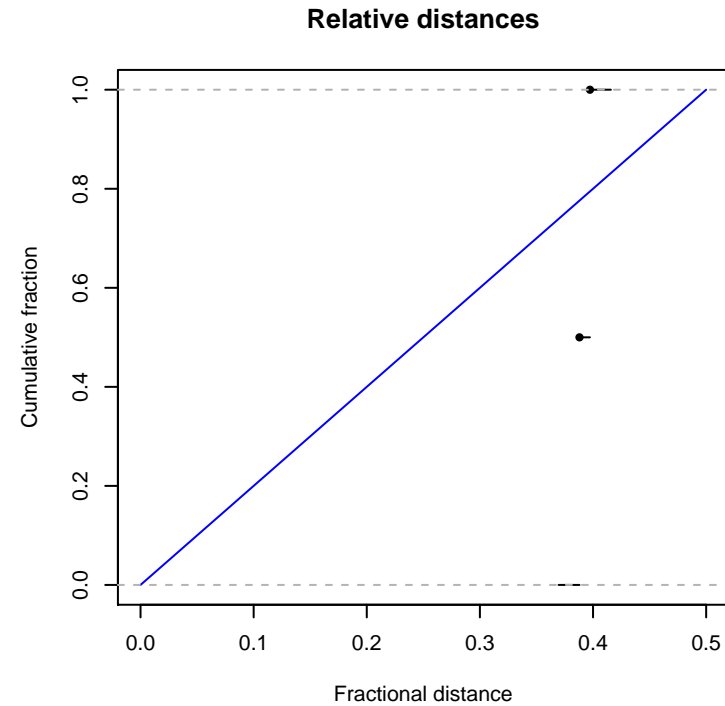
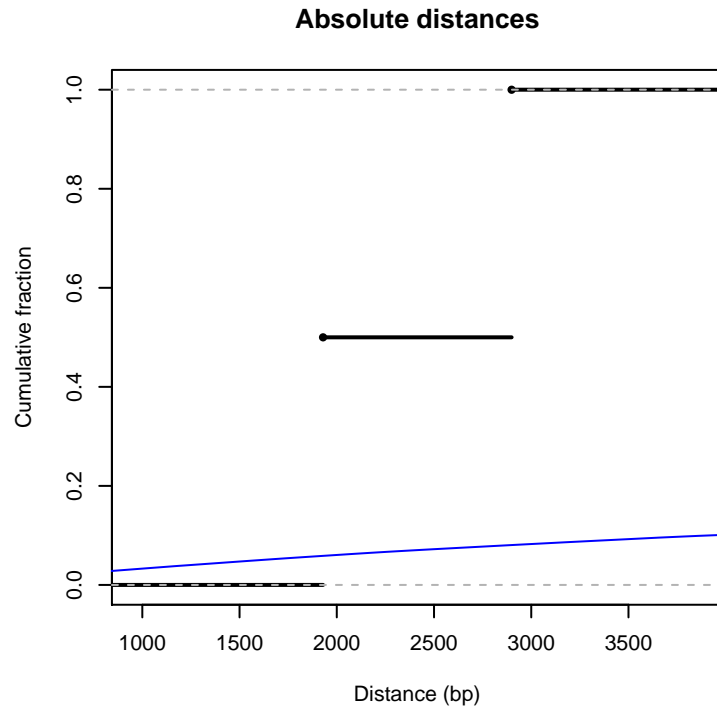
# pcontig\_067

Query population : 7  
Reference population : 78  
Relative Ks p-value : 0.131253  
Relative ecdf deviation area : 0.0976  
Relative ecdf area correlation : -0.329536  
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 : 0.44  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.233124  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_068

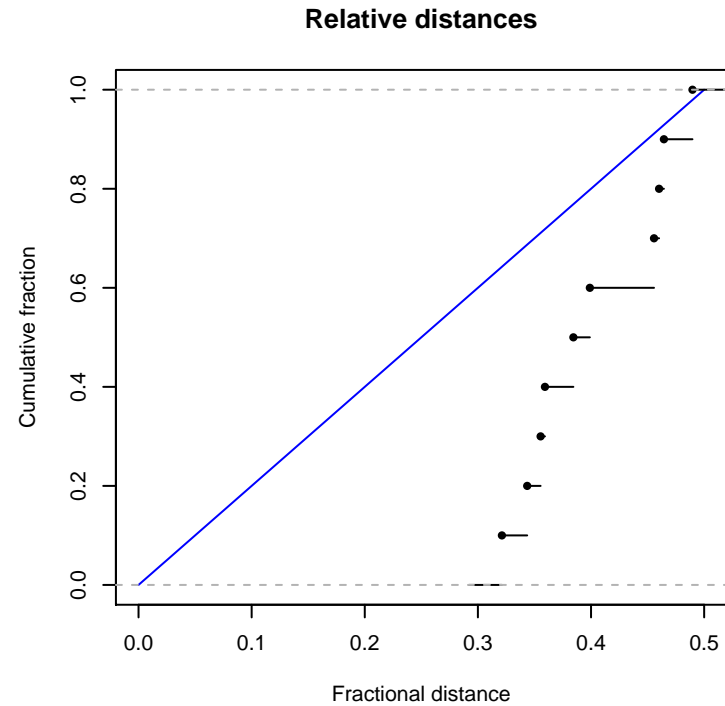
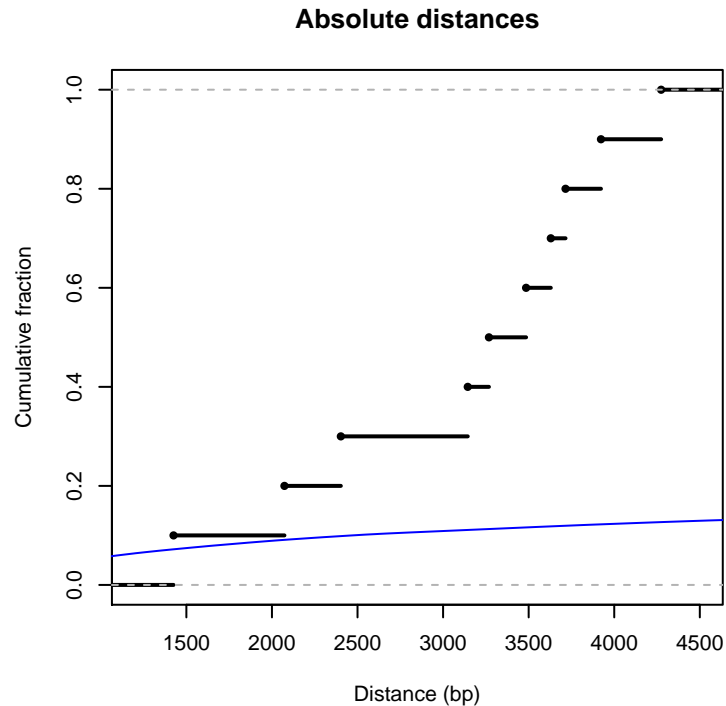
Query population : 2  
Reference population : 53  
Relative Ks p-value : 0.100291  
Relative ecdf deviation area : 0.163234  
Relative ecdf area correlation : -0.570641  
Relative ecdf deviation area p-value : 0.1  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.039315  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





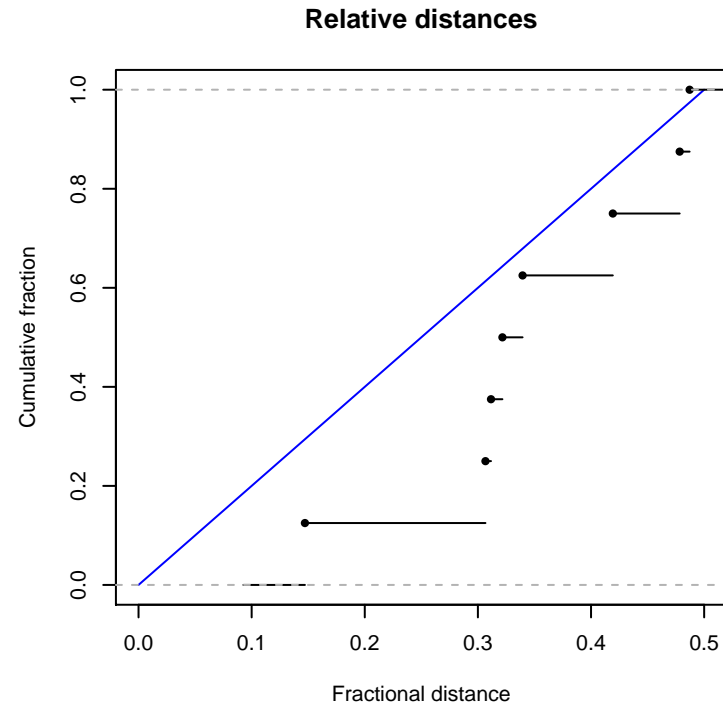
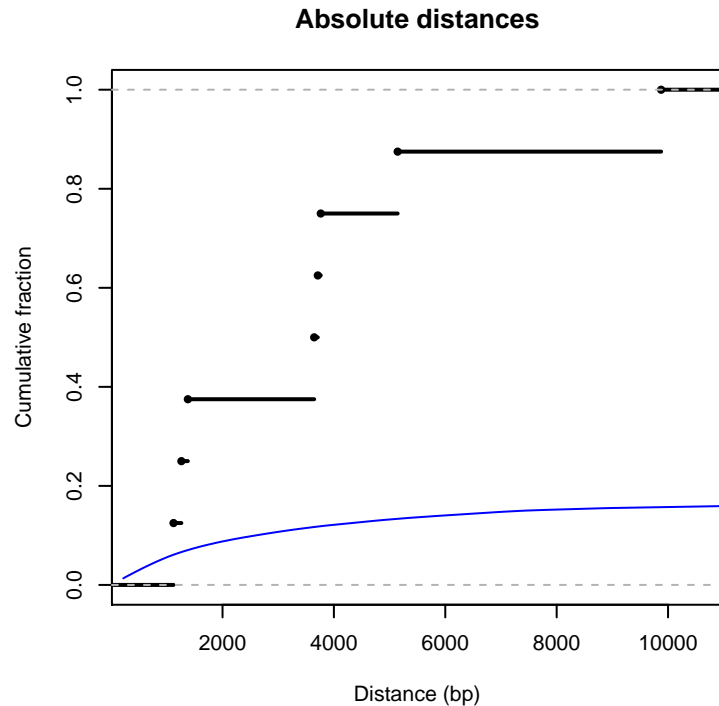
# pcontig\_069

Query population : 10  
Reference population : 91  
Relative Ks p-value : 0.000151129  
Relative ecdf deviation area : 0.153479  
Relative ecdf area correlation : -0.613142  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.42  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.356284  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_070

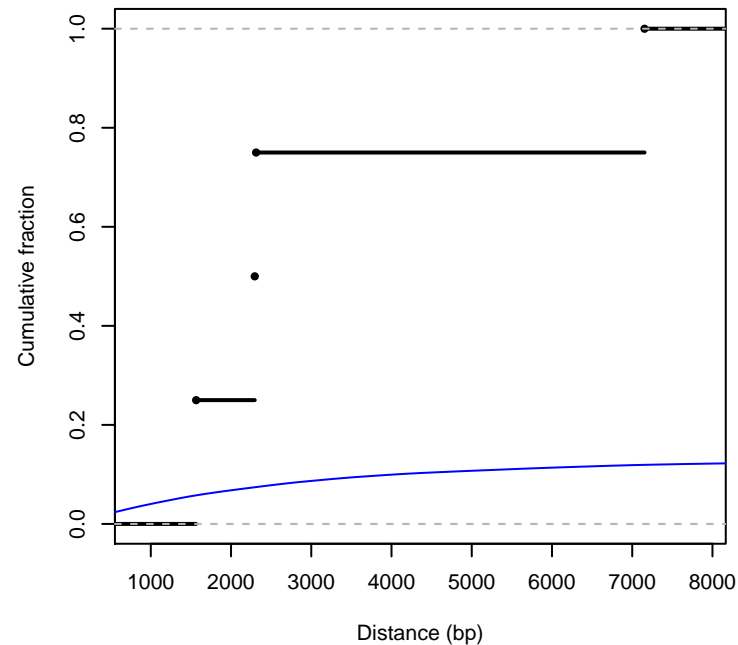
Query population : 8  
Reference population : 94  
Relative Ks p-value : 0.0279121  
Relative ecdf deviation area : 0.102001  
Relative ecdf area correlation : -0.405658  
Relative ecdf deviation area p-value : 0.06000000000000001  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.48  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.250546  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



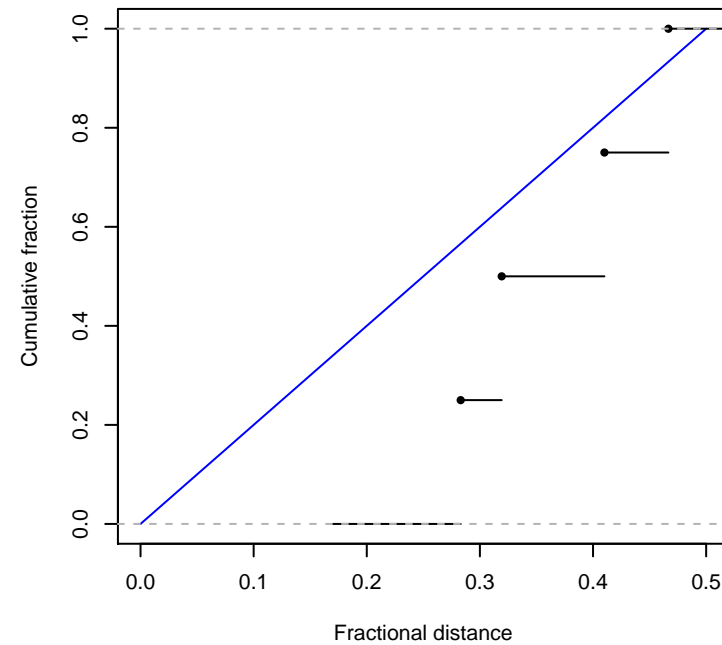
# pcontig\_072

Query population : 4  
Reference population : 68  
Relative Ks p-value : 0.0991303  
Relative ecdf deviation area : 0.121646  
Relative ecdf area correlation : -0.478999  
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 : 0.29  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.113154  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

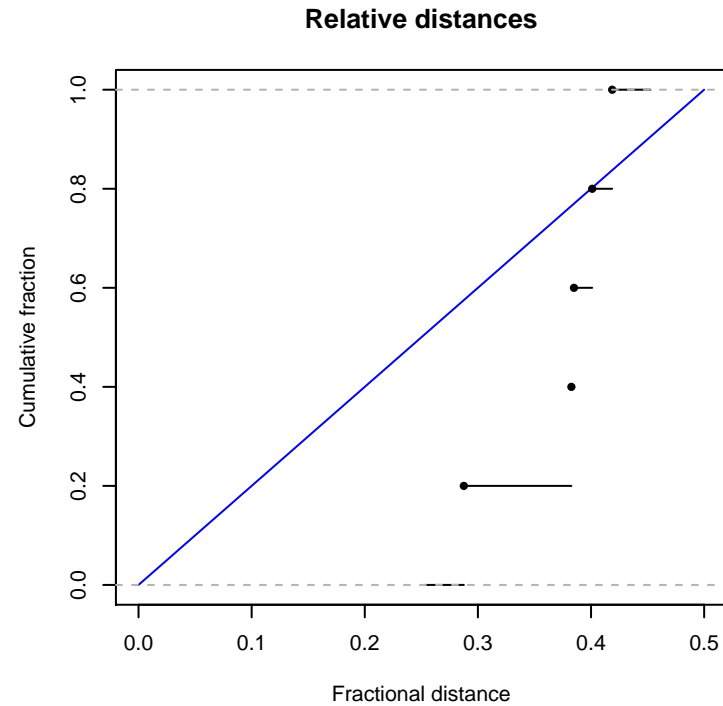
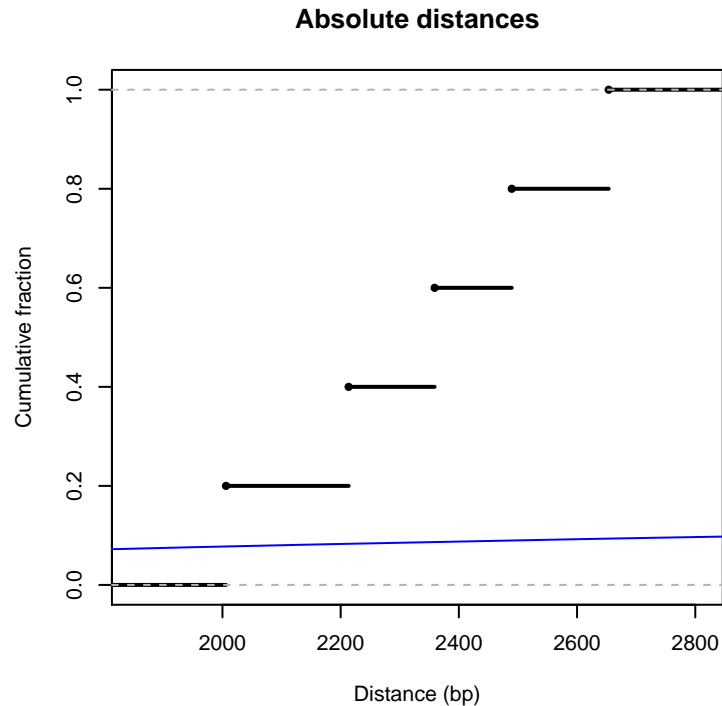


Relative distances



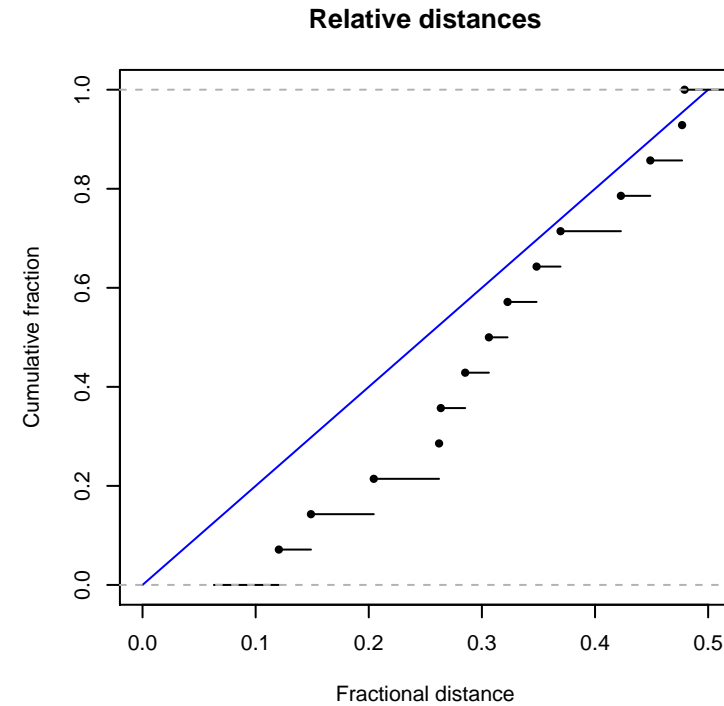
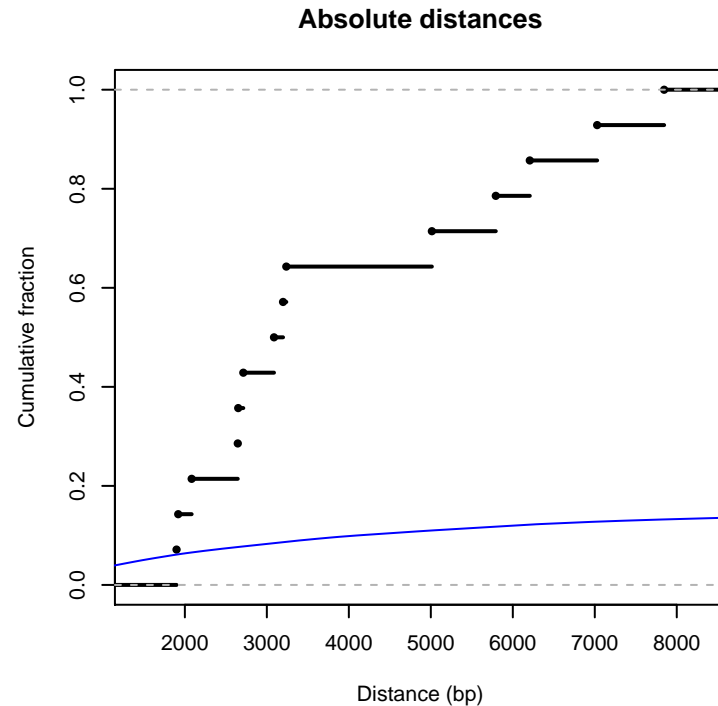
# pcontig\_073

Query population : 5  
Reference population : 73  
Relative Ks p-value : 0.0425684  
Relative ecdf deviation area : 0.138251  
Relative ecdf area correlation : -0.499913  
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 : 0.23  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.154982  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



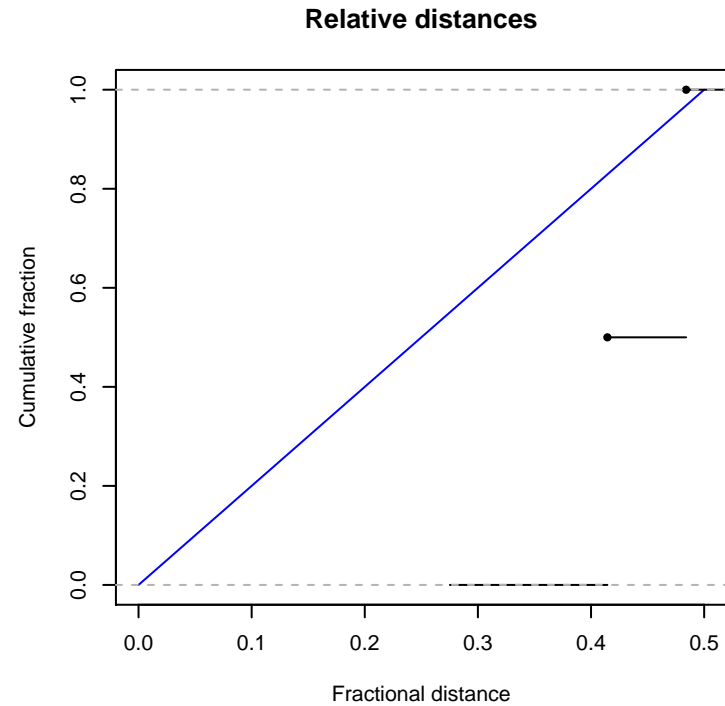
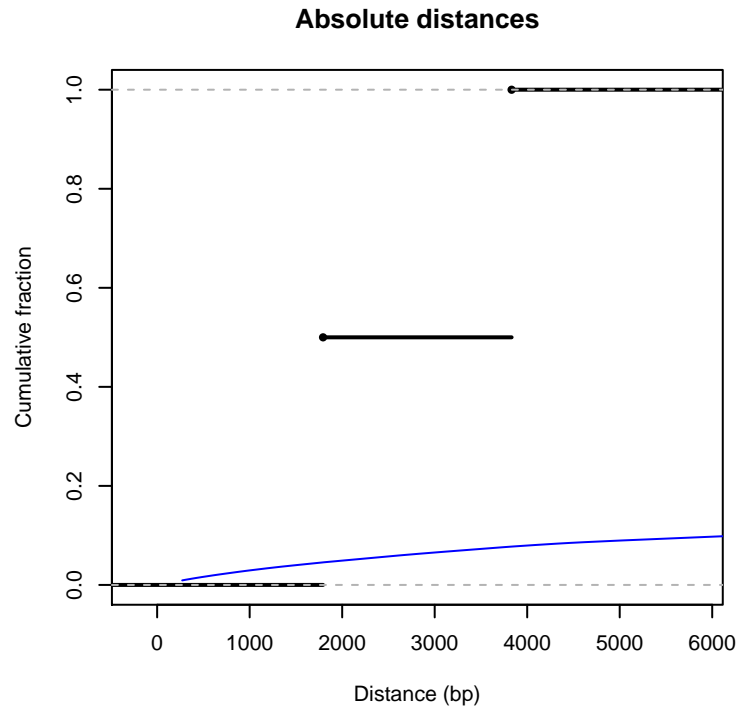
# pcontig\_074

Query population : 14  
Reference population : 54  
Relative Ks p-value : 0.108183  
Relative ecdf deviation area : 0.0691805  
Relative ecdf area correlation : -0.274131  
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 : 0.37  
Jaccard Measure lower tail : TRUE  
Projection test p-value : 0.311645  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



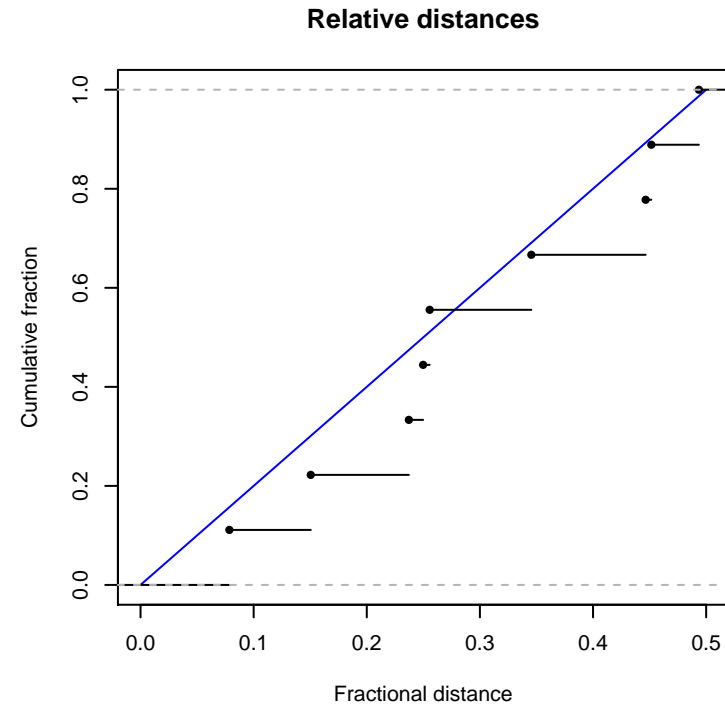
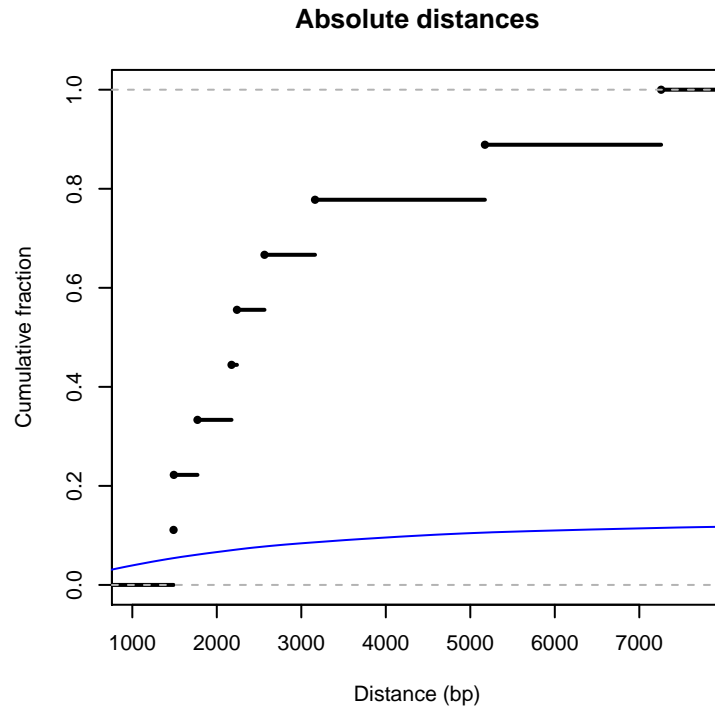
# pcontig\_075

Query population : 2  
Reference population : 52  
Relative Ks p-value : 0.0585331  
Relative ecdf deviation area : 0.199556  
Relative ecdf area correlation : -0.797076  
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 : 0.06000000000000001  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0288697  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



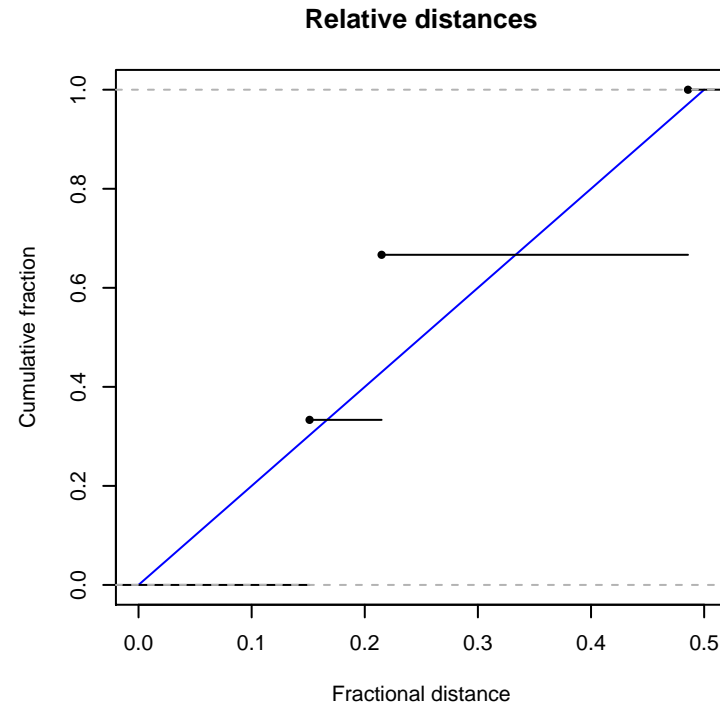
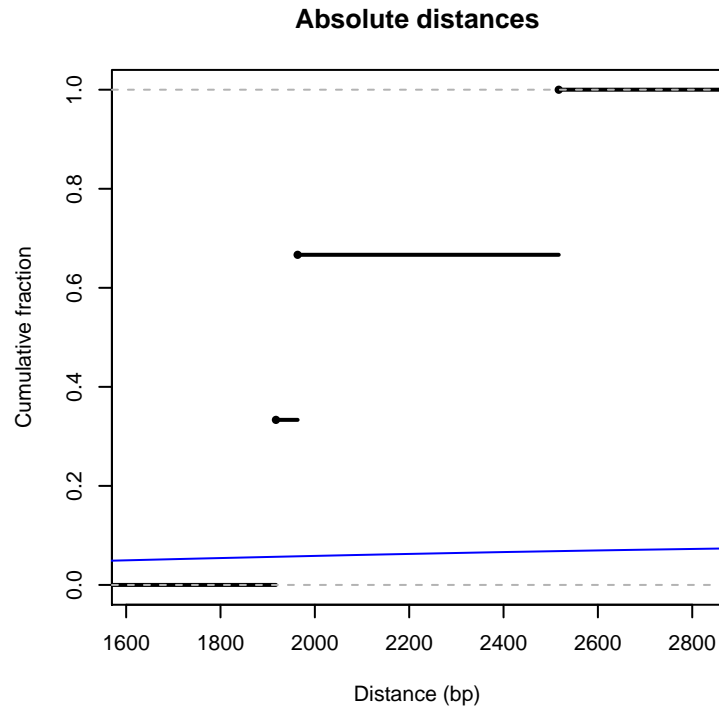
# pcontig\_077

Query population : 9  
Reference population : 67  
Relative Ks p-value : 0.536296  
Relative ecdf deviation area : 0.0521497  
Relative ecdf area correlation : -0.203878  
Relative ecdf deviation area p-value : 0.42  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.49  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.265421  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_078

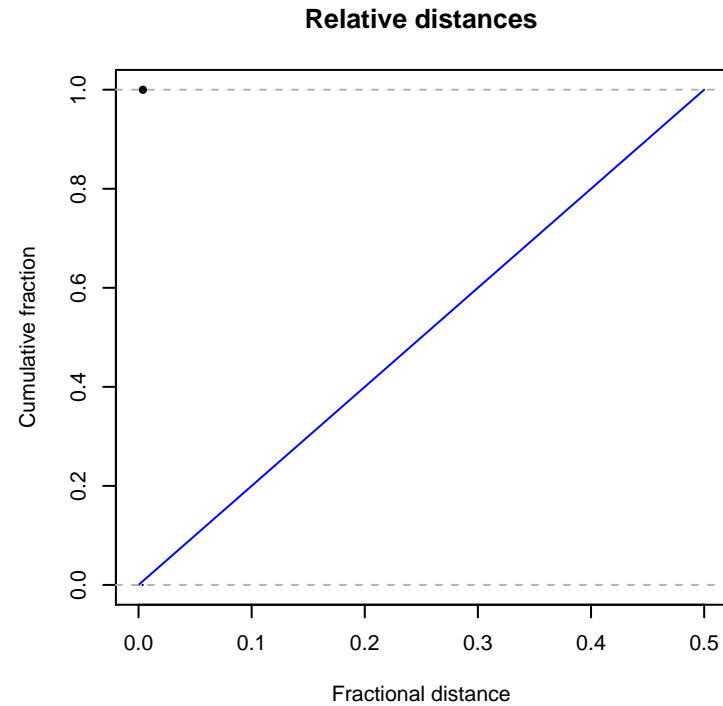
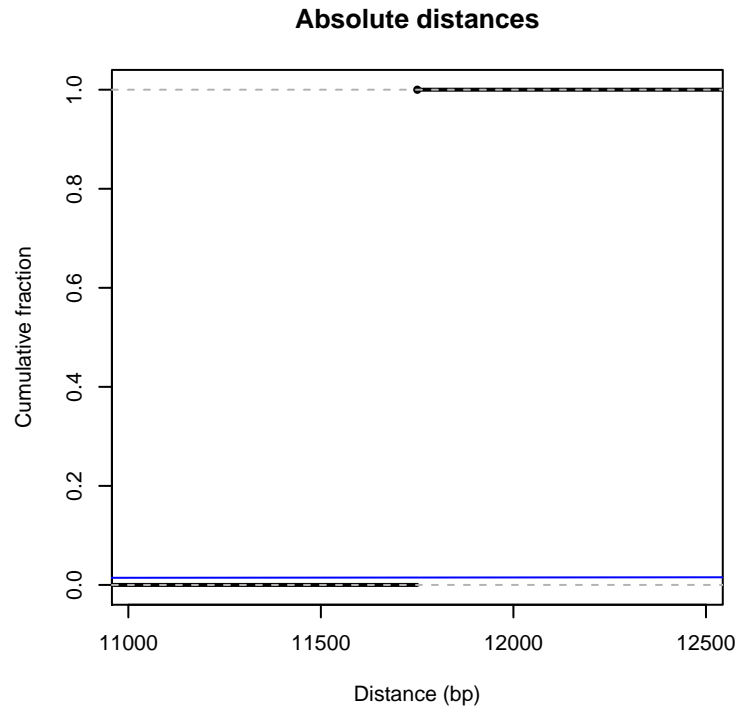
Query population : 3  
Reference population : 53  
Relative Ks p-value : 0.873561  
Relative ecdf deviation area : 0.0624474  
Relative ecdf area correlation : -0.135705  
Relative ecdf deviation area p-value : 0.78  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.13  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0684823  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





# pcontig\_079

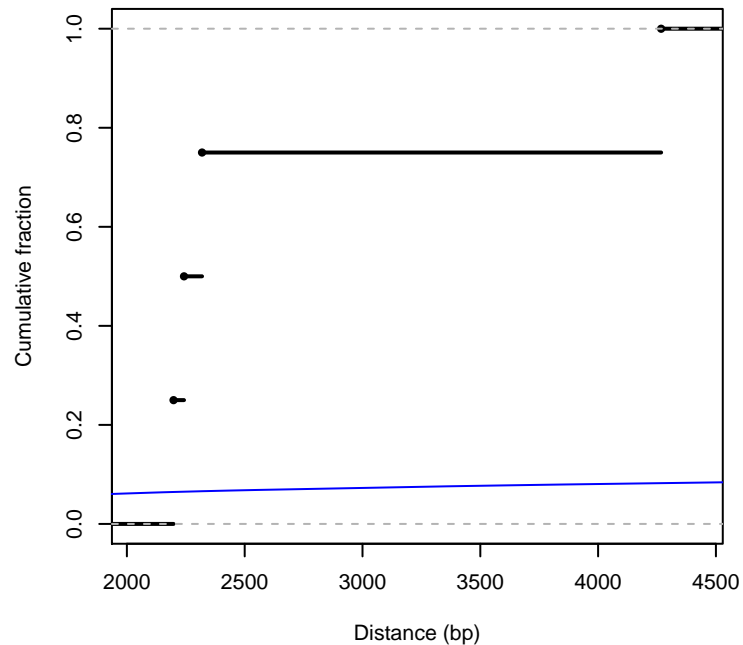
Query population : 1  
Reference population : 6  
Relative Ks p-value : 0.0154609  
Relative ecdf deviation area : 0.246924  
Relative ecdf area correlation : 0.984539  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : 0.05  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00195084  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



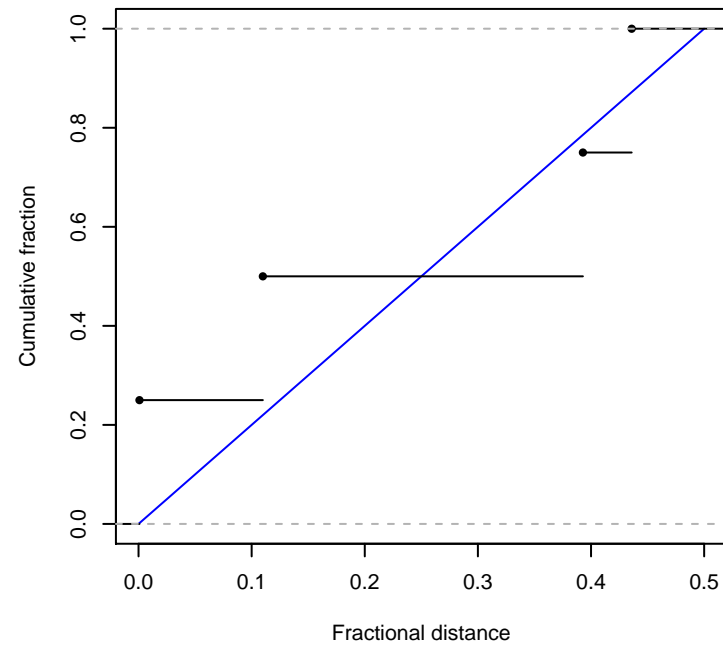
# pcontig\_080

Query population : 4  
Reference population : 65  
Relative Ks p-value : 0.813938  
Relative ecdf deviation area : 0.0624134  
Relative ecdf area correlation : 0.0605327  
Relative ecdf deviation area p-value : 0.61  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.25  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.105333  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

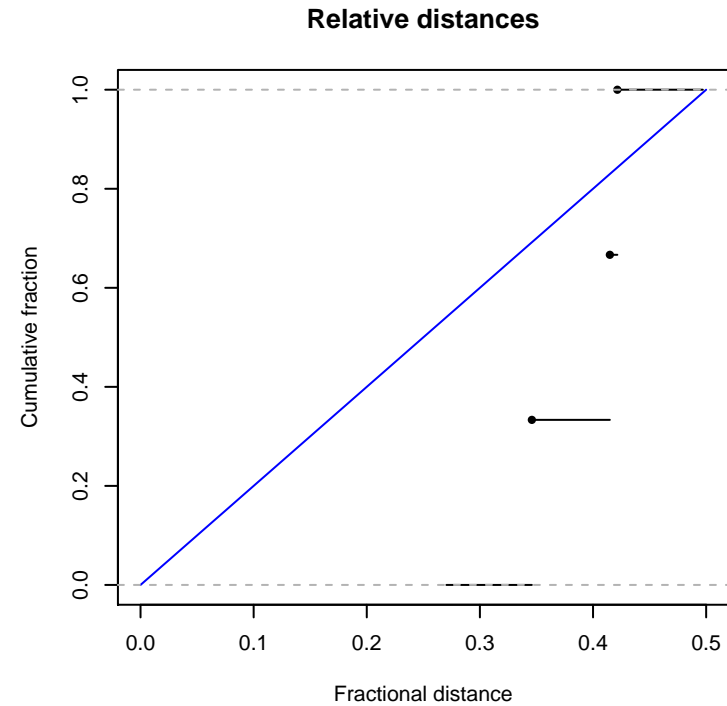
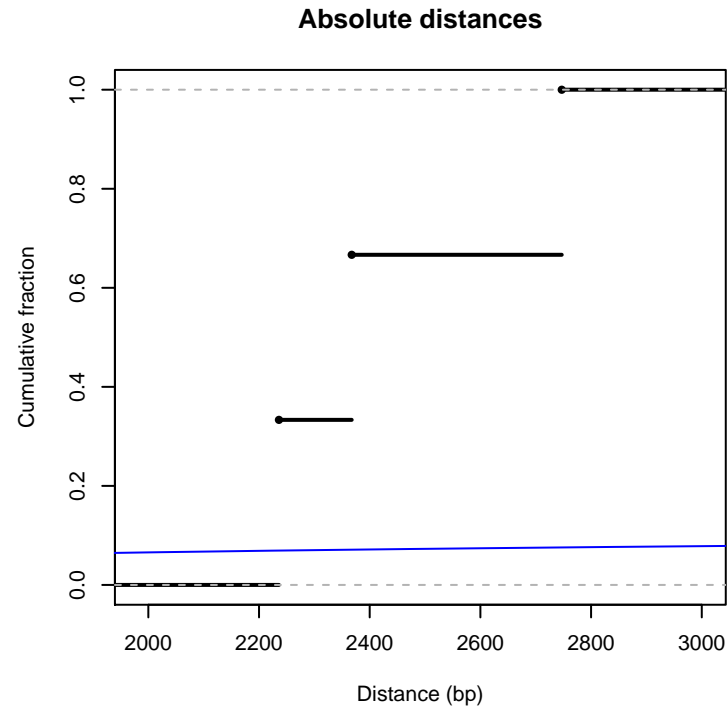


Relative distances



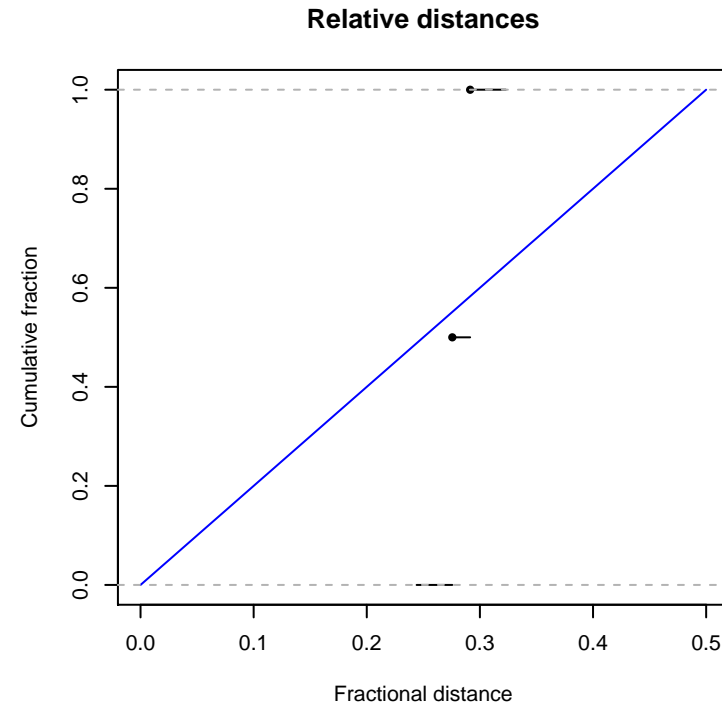
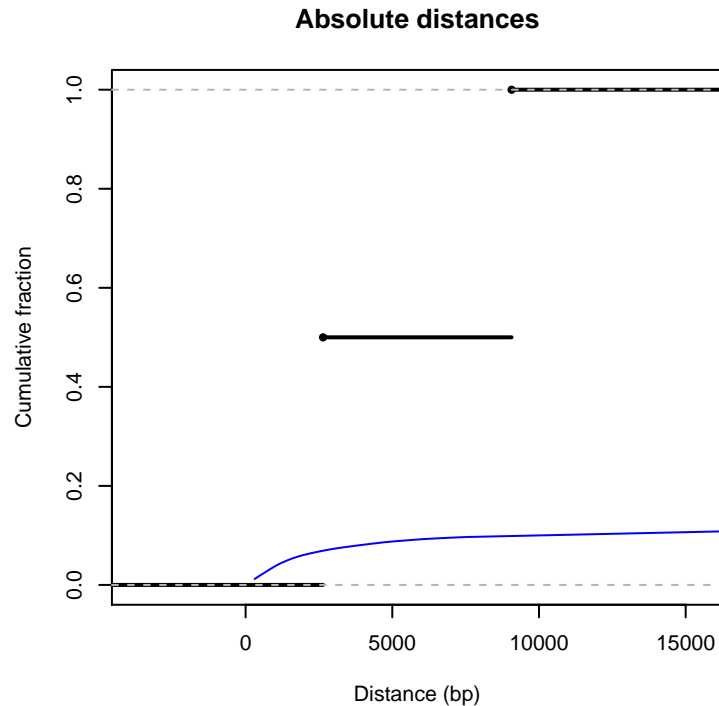
# pcontig\_081

Query population : 3  
Reference population : 65  
Relative Ks p-value : 0.0585016  
Relative ecdf deviation area : 0.15632  
Relative ecdf area correlation : -0.576444  
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 : 0.13  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.083683  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_082

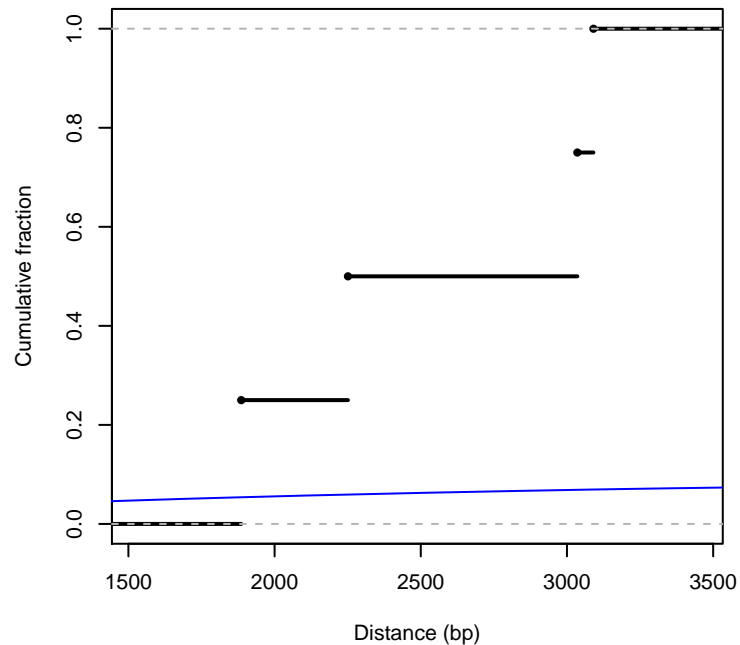
Query population : 2  
Reference population : 60  
Relative Ks p-value : 0.402824  
Relative ecdf deviation area : 0.120488  
Relative ecdf area correlation : -0.133974  
Relative ecdf deviation area p-value : 0.36  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0507585  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



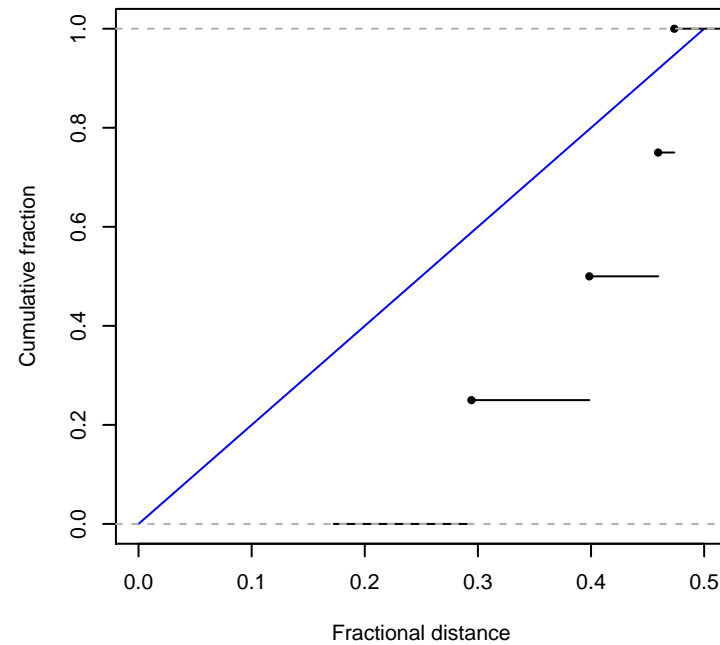
# pcontig\_083

Query population : 4  
Reference population : 54  
Relative Ks p-value : 0.077136  
Relative ecdf deviation area : 0.157364  
Relative ecdf area correlation : -0.625731  
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 : 0.19  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0980632  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

Absolute distances

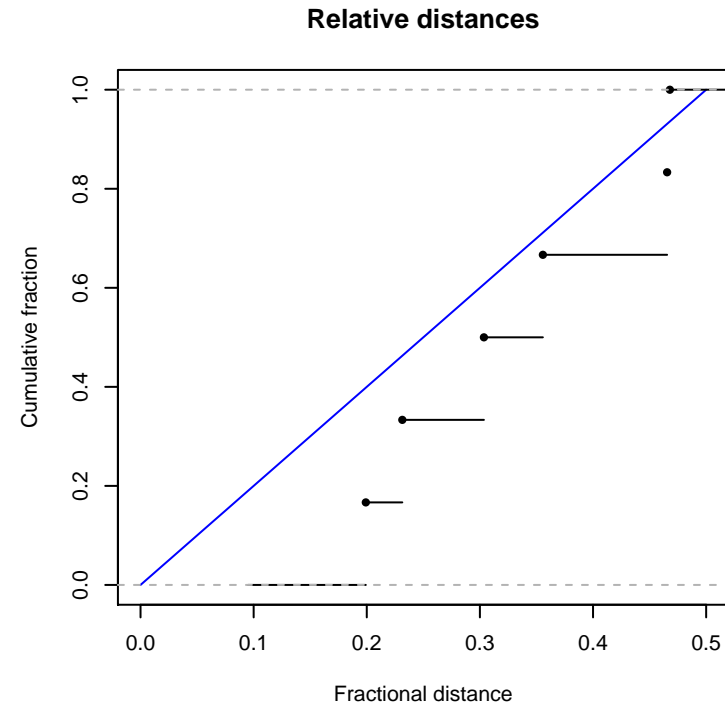
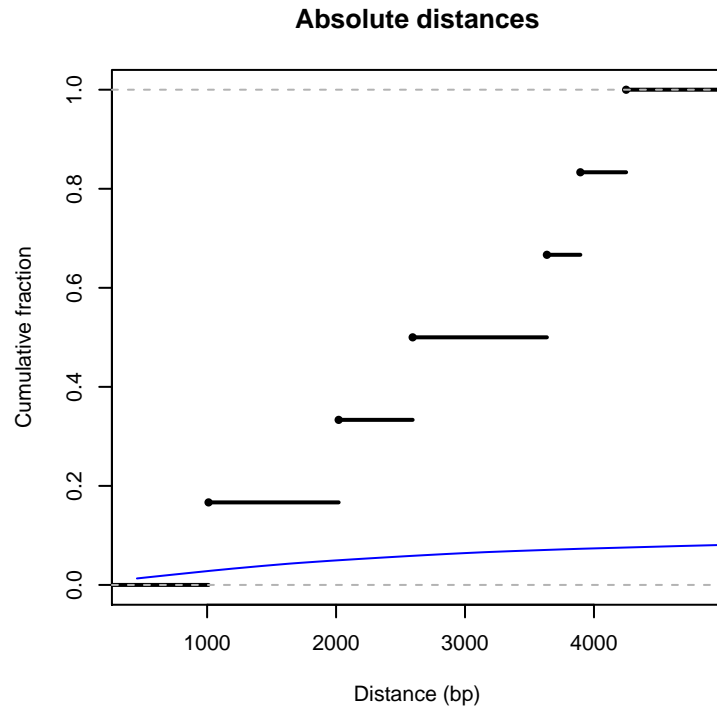


Relative distances



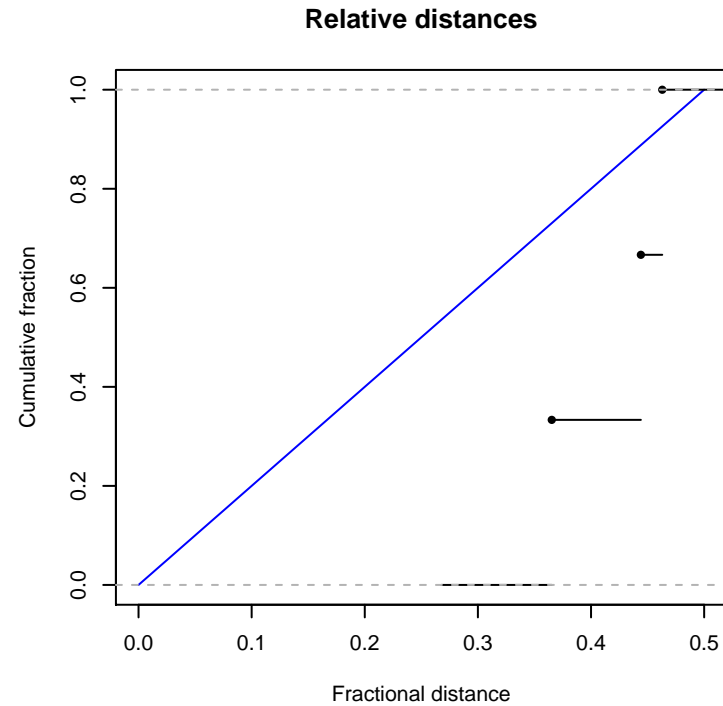
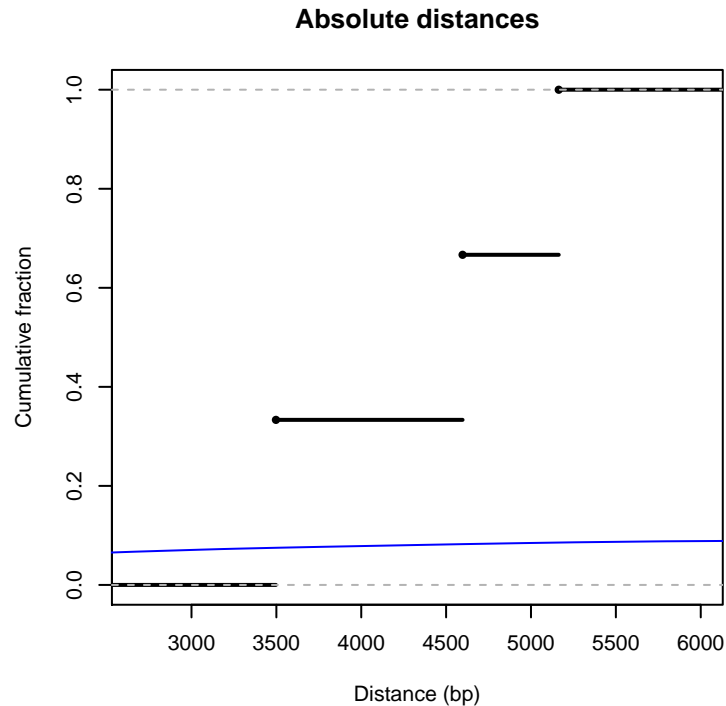
# pcontig\_084

Query population : 6  
Reference population : 44  
Relative Ks p-value : 0.228174  
Relative ecdf deviation area : 0.0894883  
Relative ecdf area correlation : -0.348801  
Relative ecdf deviation area p-value : 0.16  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.18  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.116514  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



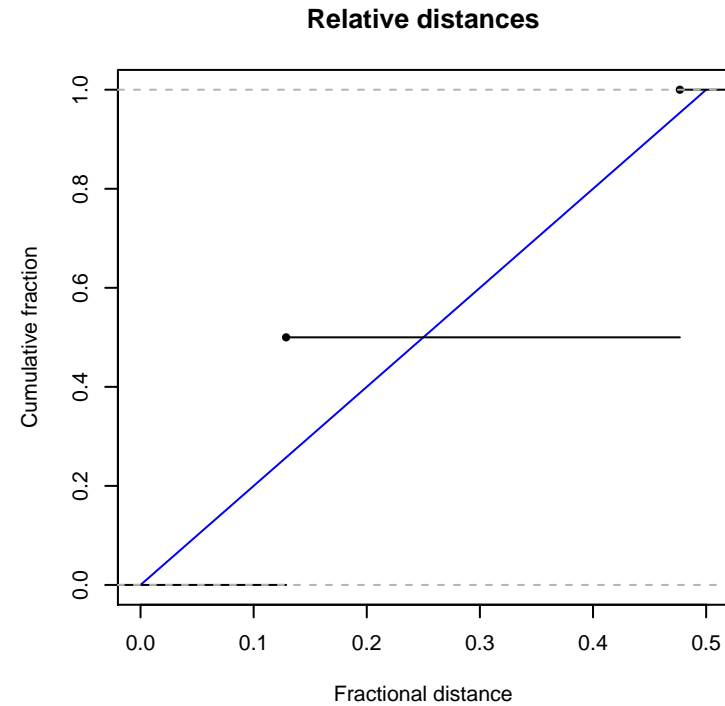
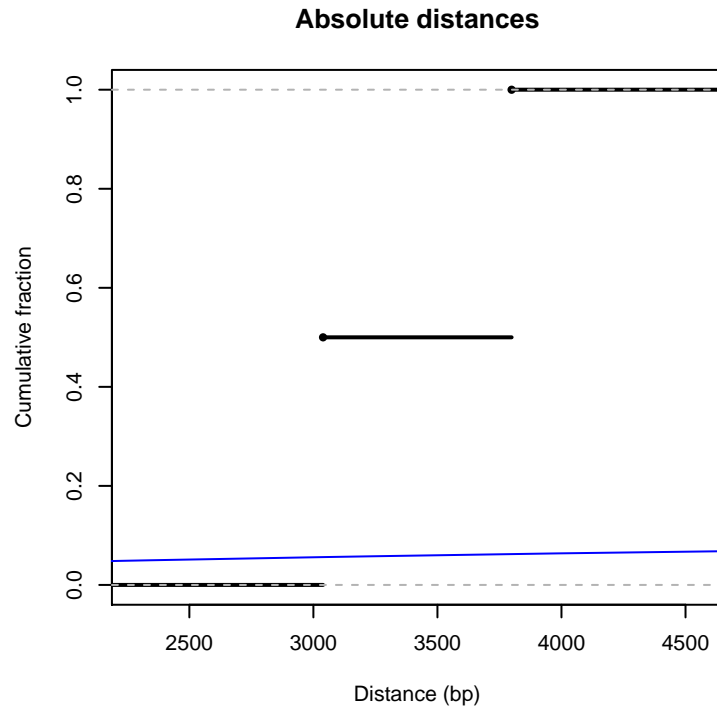
# pcontig\_086

Query population : 3  
Reference population : 62  
Relative Ks p-value : 0.0391249  
Relative ecdf deviation area : 0.176711  
Relative ecdf area correlation : -0.696404  
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 : 0.16  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.071045  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_087

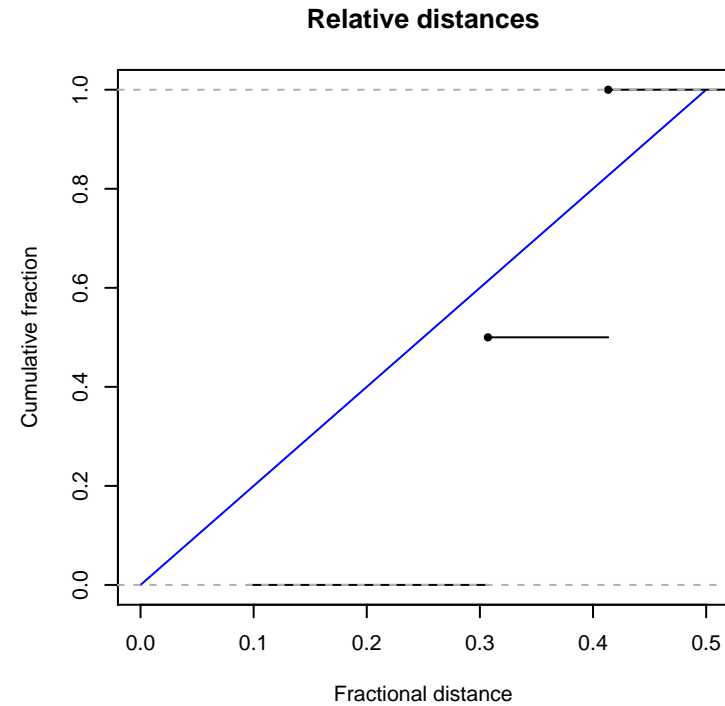
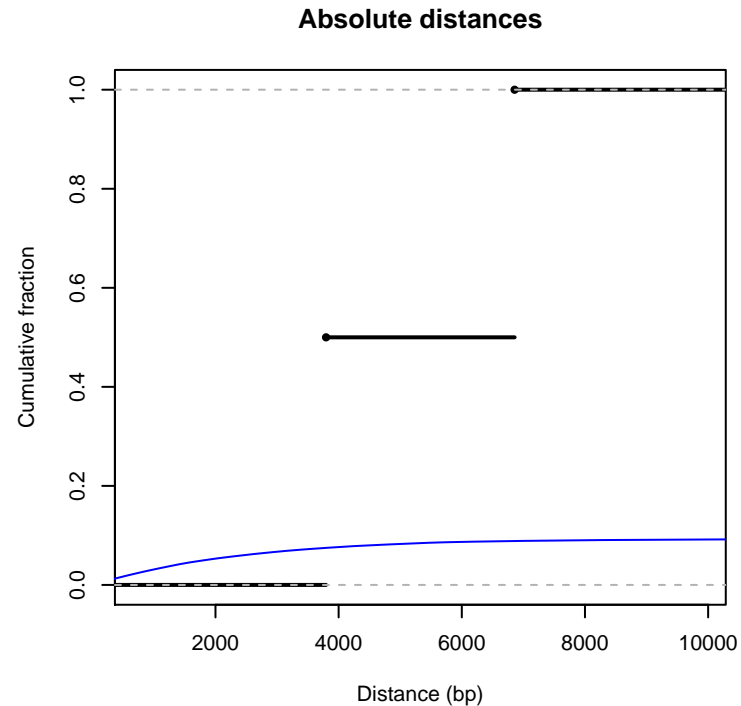
Query population : 2  
Reference population : 46  
Relative Ks p-value : 0.668688  
Relative ecdf deviation area : 0.0831436  
Relative ecdf area correlation : -0.210943  
Relative ecdf deviation area p-value : 0.74  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0422472  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





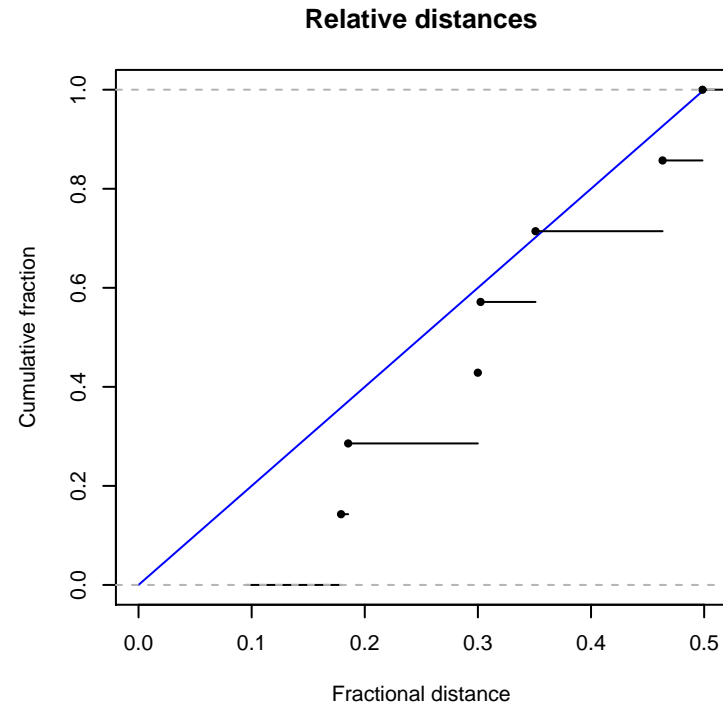
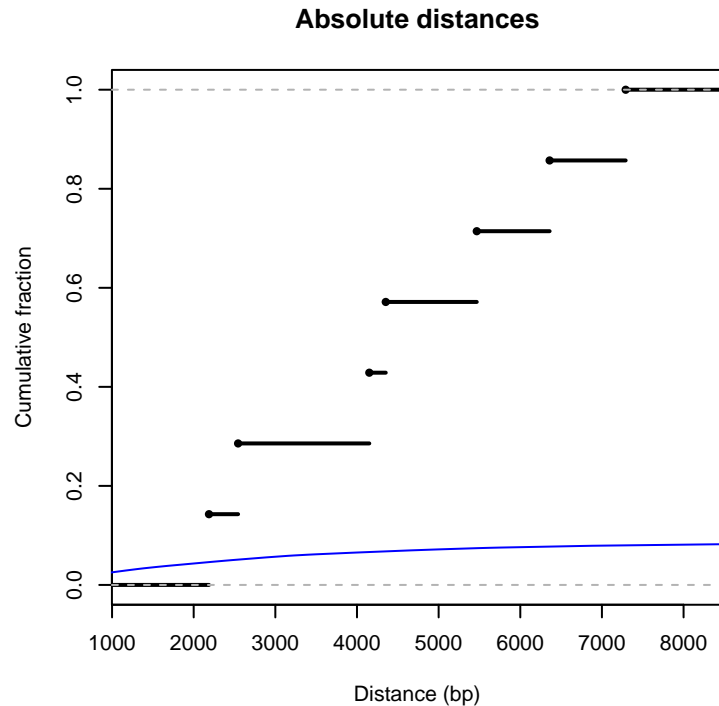
# pcontig\_088

Query population : 2  
Reference population : 54  
Relative Ks p-value : 0.297699  
Relative ecdf deviation area : 0.125196  
Relative ecdf area correlation : -0.440992  
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 : 0.09  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0539254  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



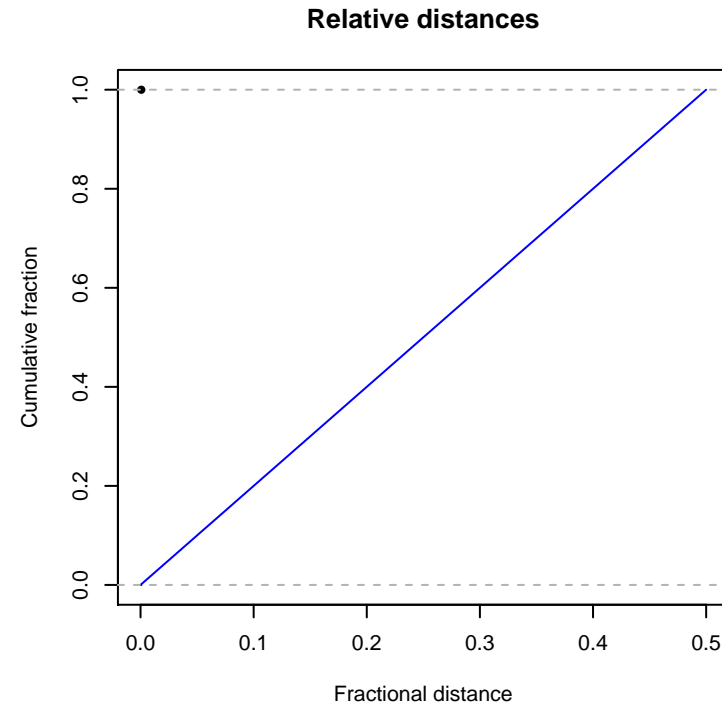
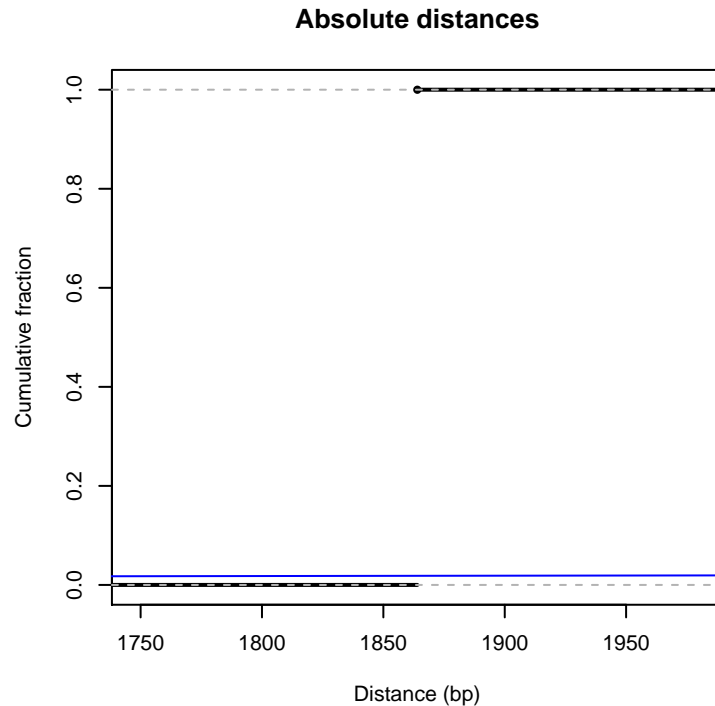
# pcontig\_089

Query population : 7  
Reference population : 42  
Relative Ks p-value : 0.261711  
Relative ecdf deviation area : 0.0754507  
Relative ecdf area correlation : -0.302488  
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 : 0.22  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.137073  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



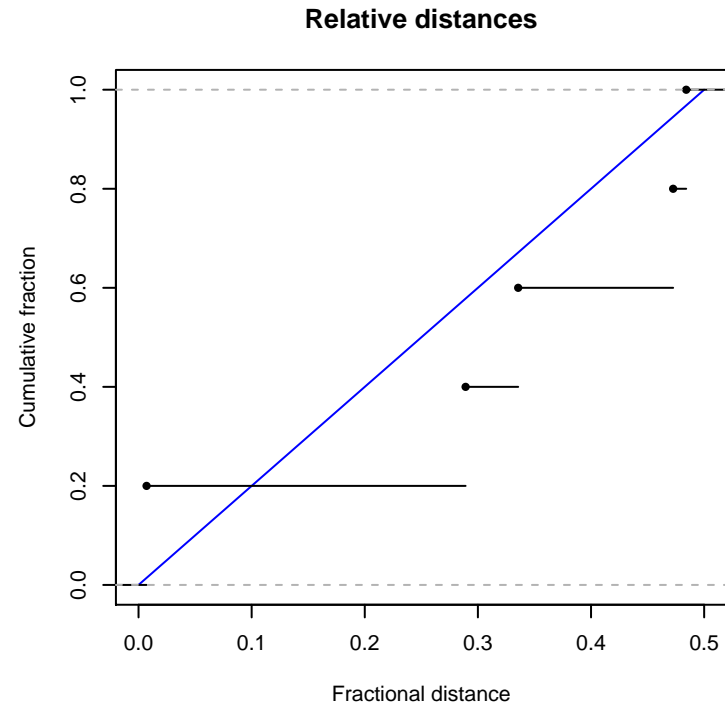
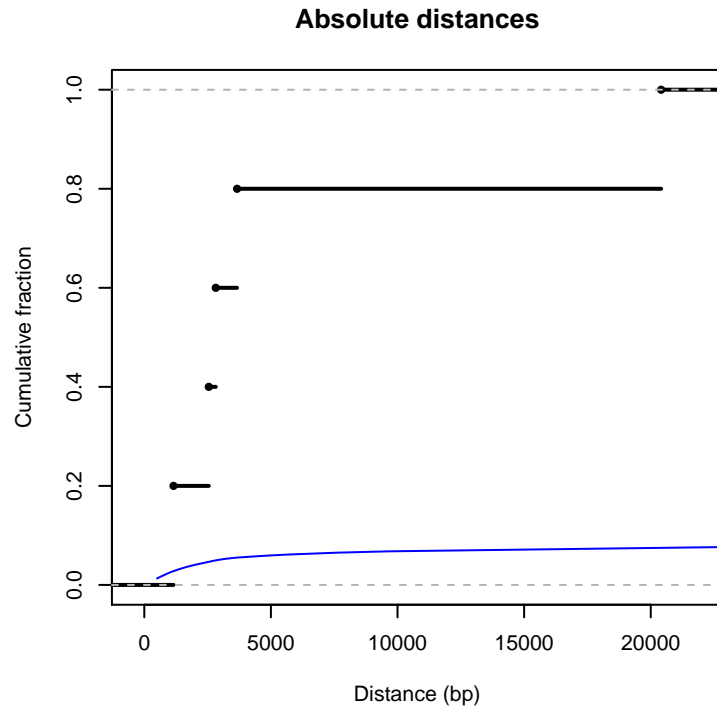
# pcontig\_090

Query population : 1  
Reference population : 21  
Relative Ks p-value : 0.00259619  
Relative ecdf deviation area : 0.25  
Relative ecdf area correlation : 0.997404  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00946947  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



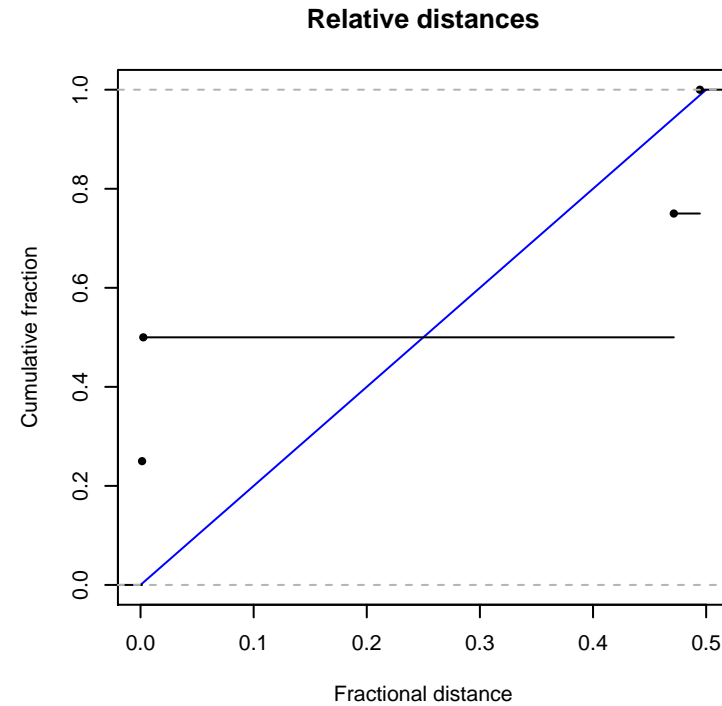
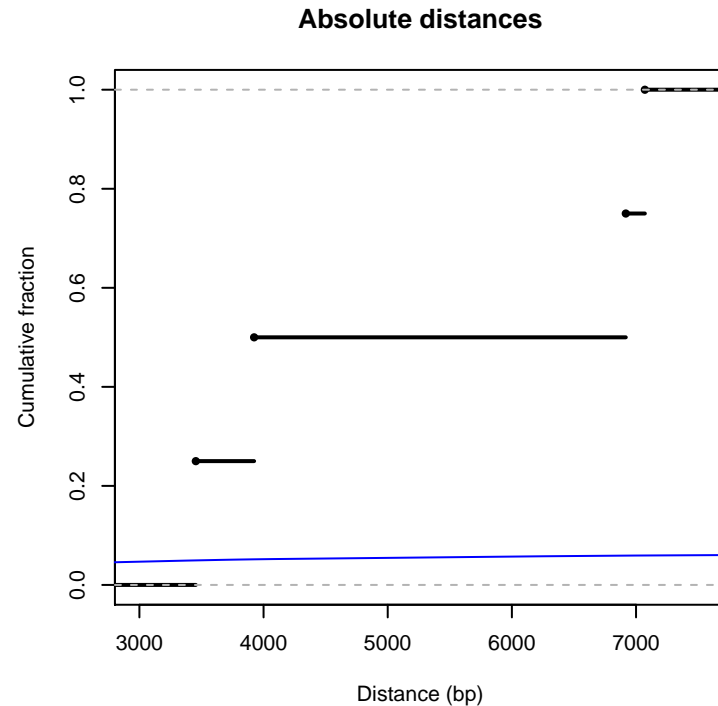
# pcontig\_091

Query population : 5  
Reference population : 40  
Relative Ks p-value : 0.372208  
Relative ecdf deviation area : 0.0856303  
Relative ecdf area correlation : -0.270853  
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 : 0.17  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0947648  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



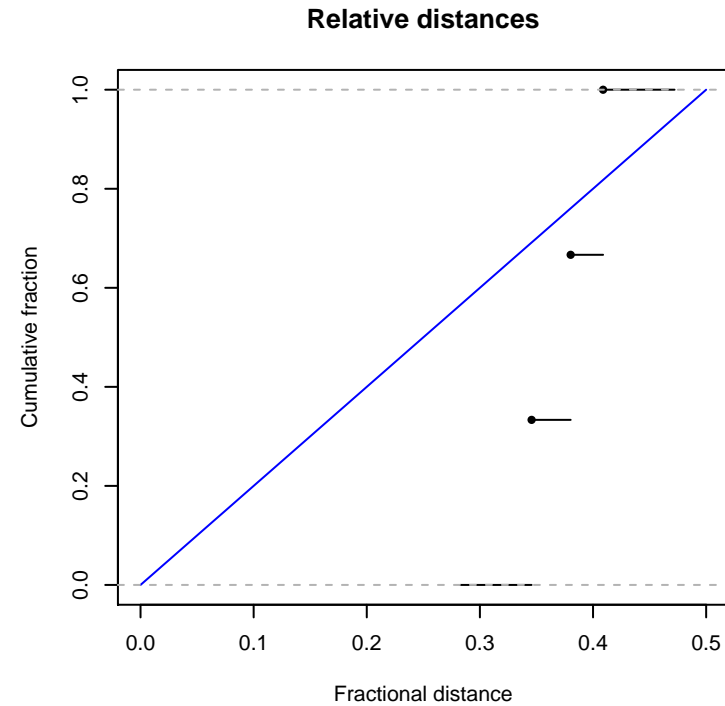
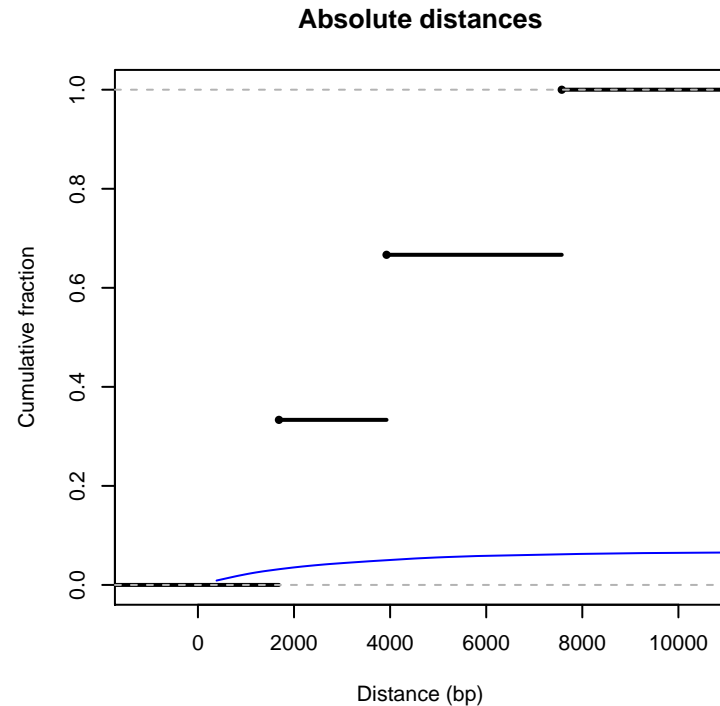
# pcontig\_092

Query population : 4  
Reference population : 37  
Relative Ks p-value : 0.19574  
Relative ecdf deviation area : 0.115354  
Relative ecdf area correlation : 0.0302892  
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 : 0.14  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0839871  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



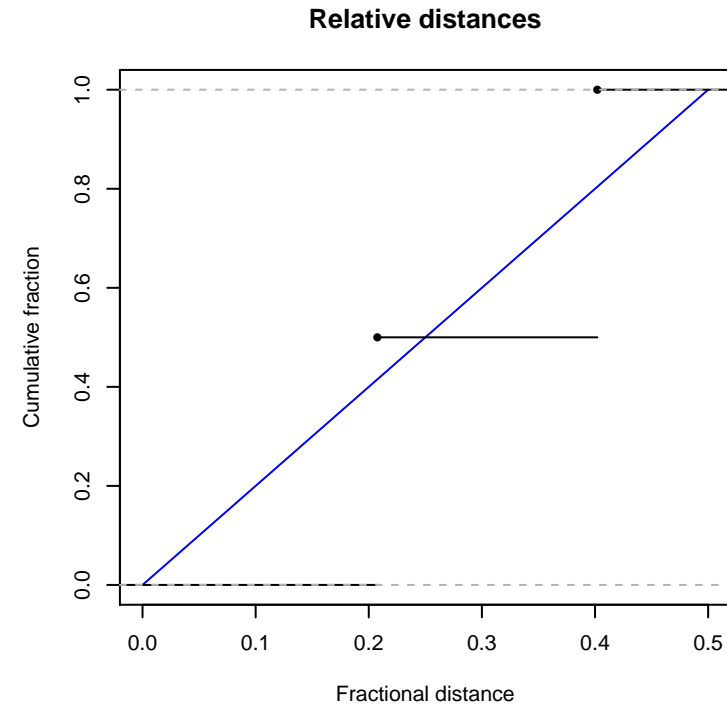
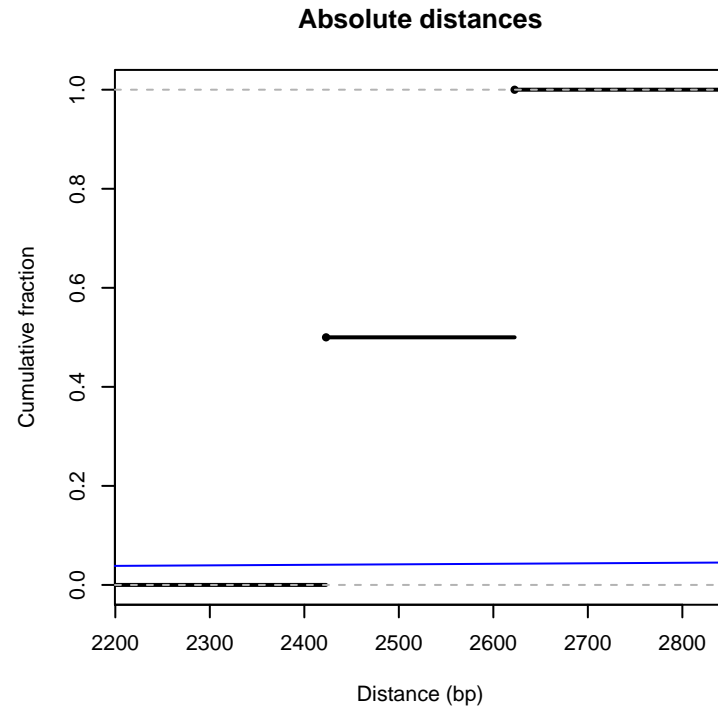
# pcontig\_095

Query population : 3  
Reference population : 35  
Relative Ks p-value : 0.0587735  
Relative ecdf deviation area : 0.145145  
Relative ecdf area correlation : -0.513098  
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 : 0.12  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0487784  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



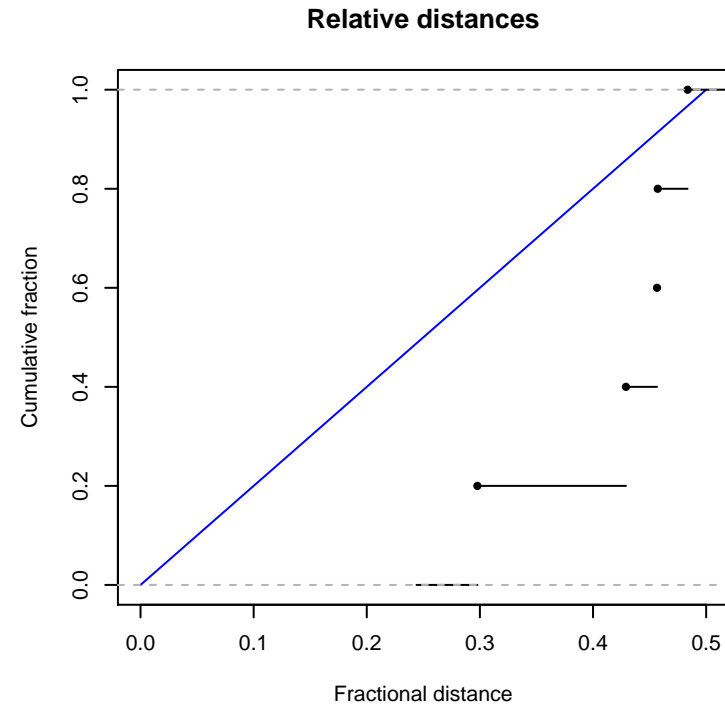
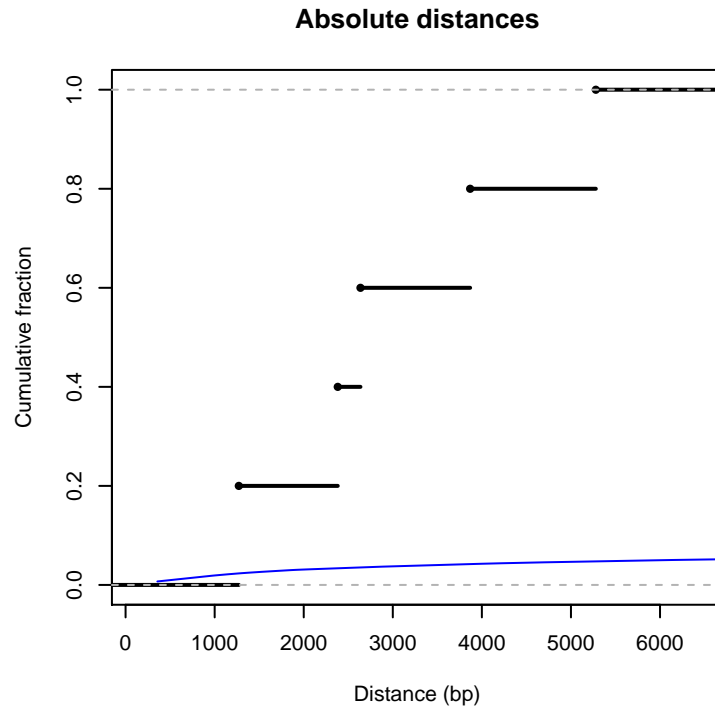
# pcontig\_097

Query population : 2  
Reference population : 34  
Relative Ks p-value : 0.781718  
Relative ecdf deviation area : 0.0774851  
Relative ecdf area correlation : -0.219231  
Relative ecdf deviation area p-value : 0.87  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0345868  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_100

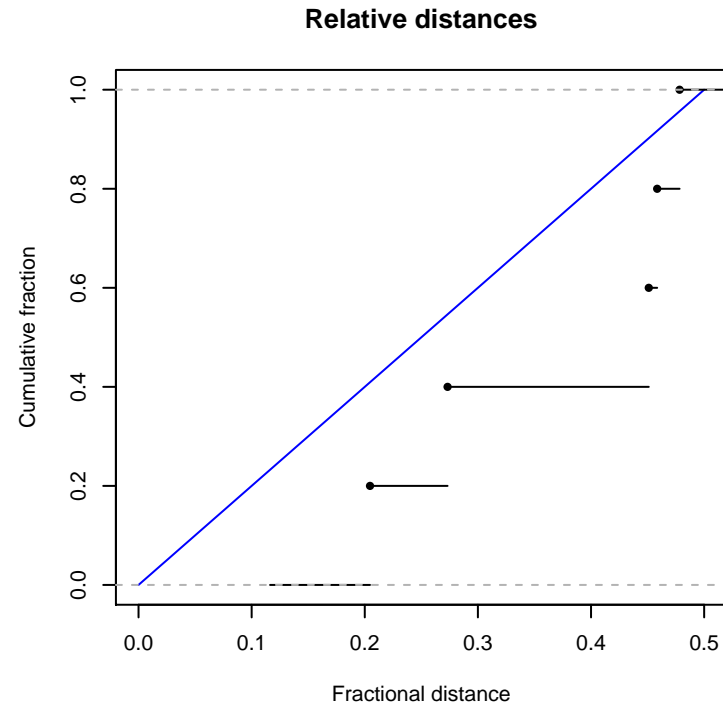
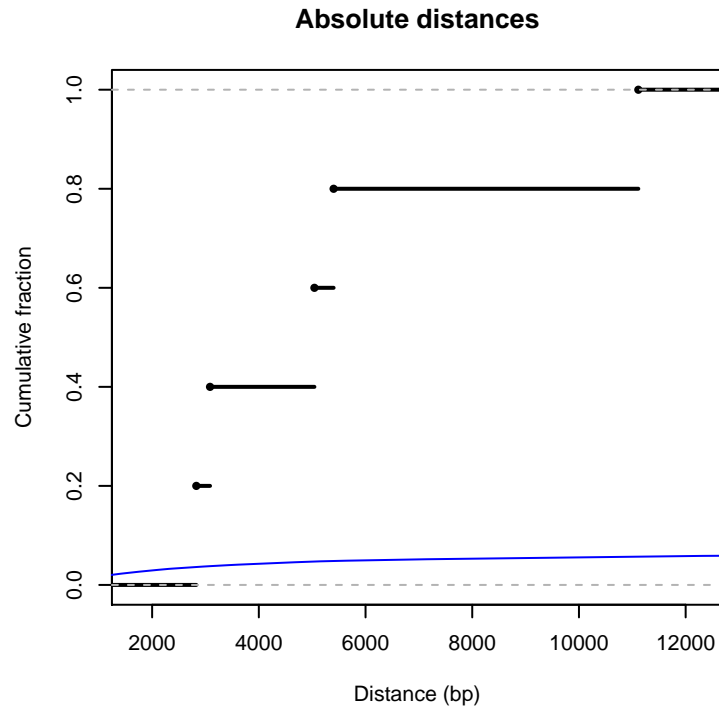
Query population : 5  
Reference population : 30  
Relative Ks p-value : 0.0119818  
Relative ecdf deviation area : 0.175456  
Relative ecdf area correlation : -0.699422  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.16  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0654304  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





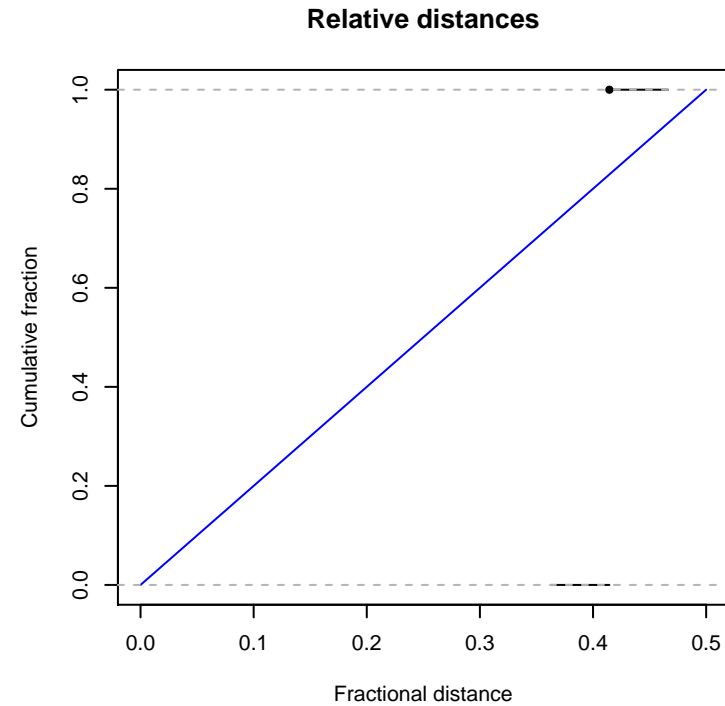
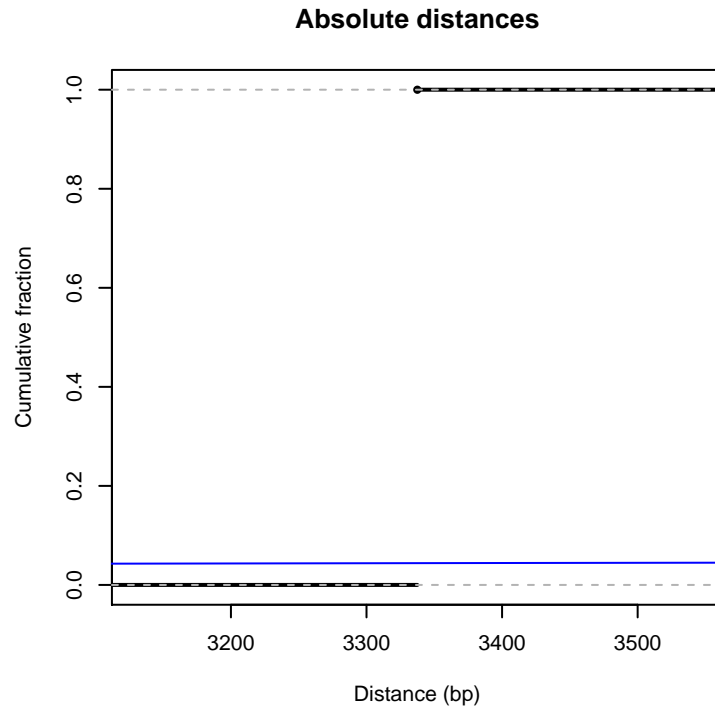
# pcontig\_103

Query population : 5  
Reference population : 26  
Relative Ks p-value : 0.109257  
Relative ecdf deviation area : 0.124113  
Relative ecdf area correlation : -0.492489  
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 : FALSE  
Projection test p-value : 0.0414708  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



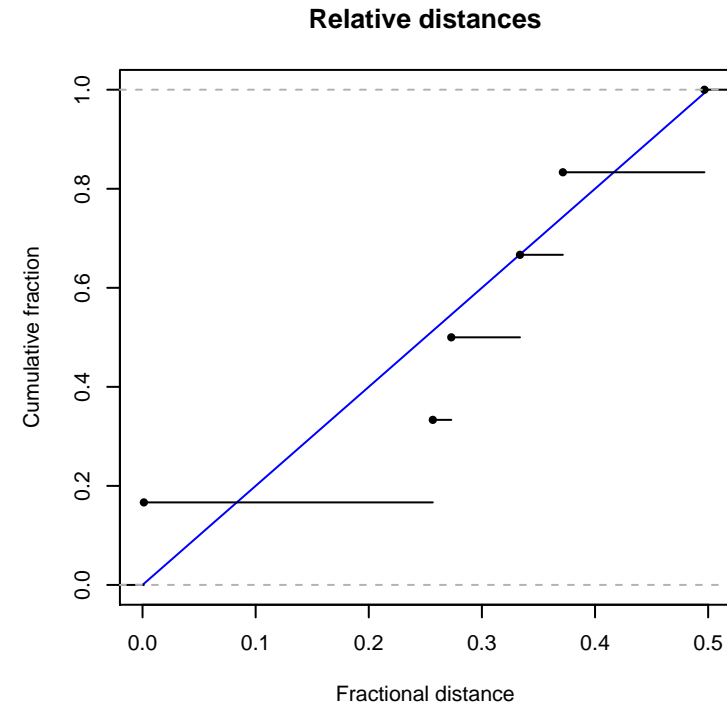
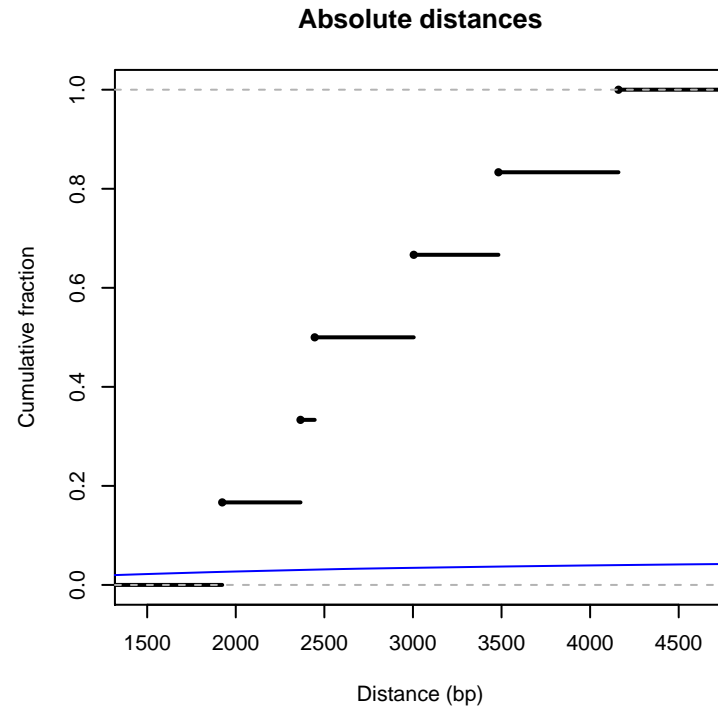
# pcontig\_104

Query population : 1  
Reference population : 35  
Relative Ks p-value : 0.34213  
Relative ecdf deviation area : 0.178833  
Relative ecdf area correlation : -0.65787  
Relative ecdf deviation area p-value : 0.37  
Scaled Absolute min. distance p-value : 0.05  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0180683  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



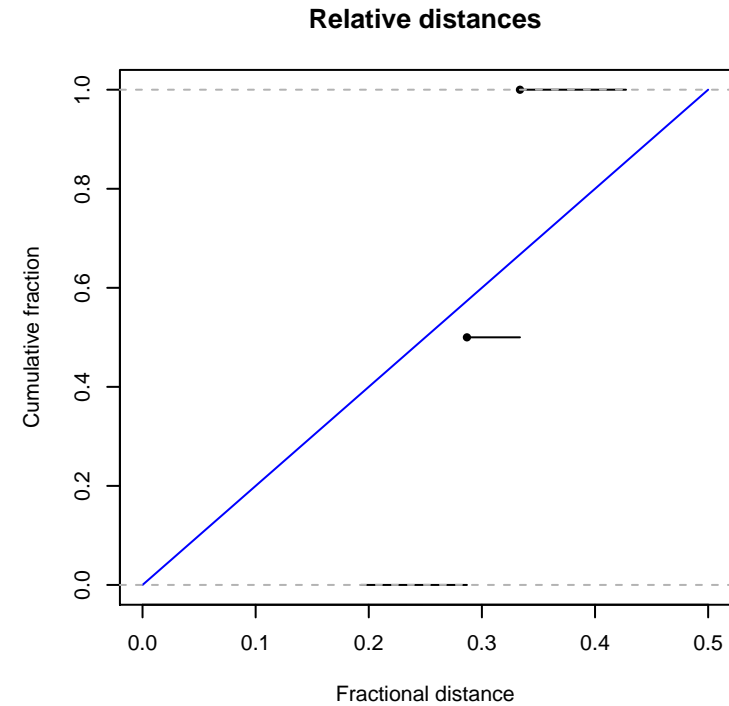
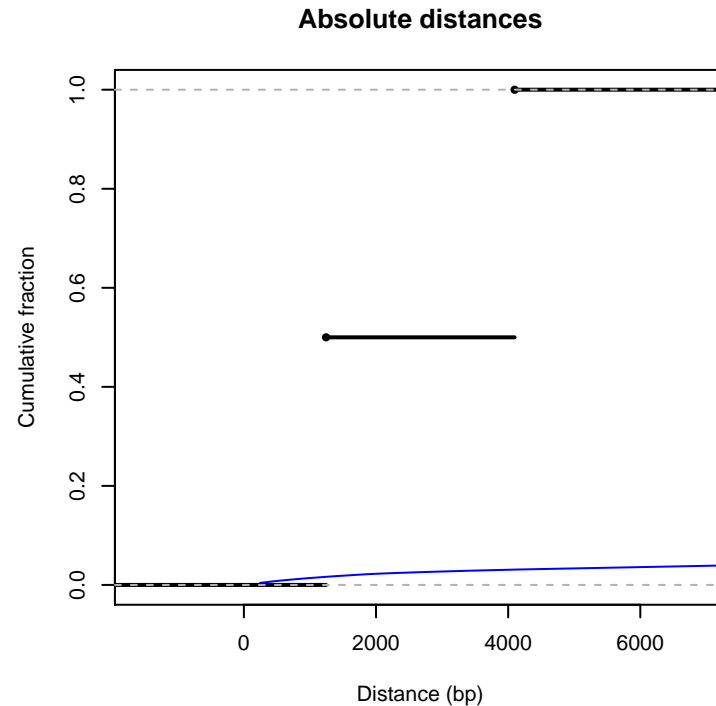
# pcontig\_106

Query population : 6  
Reference population : 25  
Relative Ks p-value : 0.378168  
Relative ecdf deviation area : 0.0563389  
Relative ecdf area correlation : -0.155115  
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 : 0.21  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0796605  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



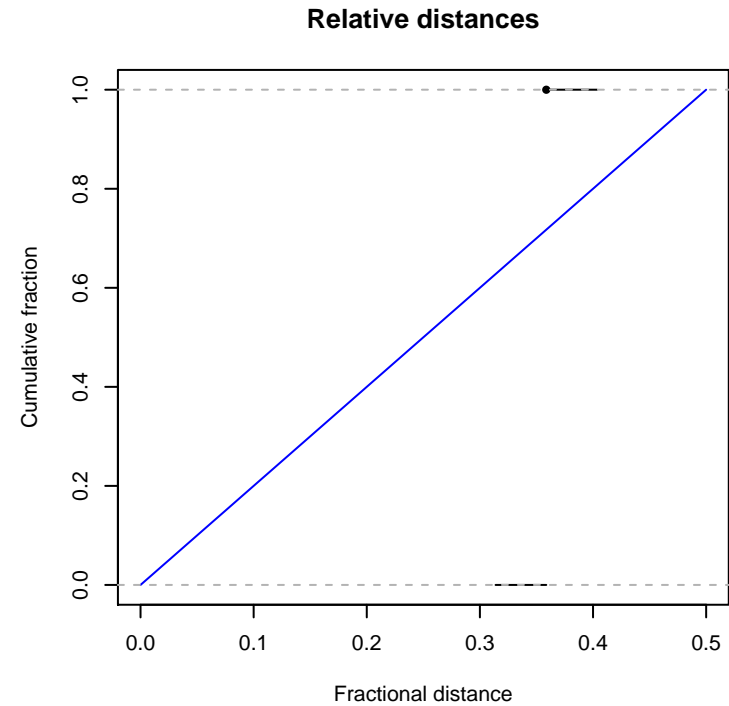
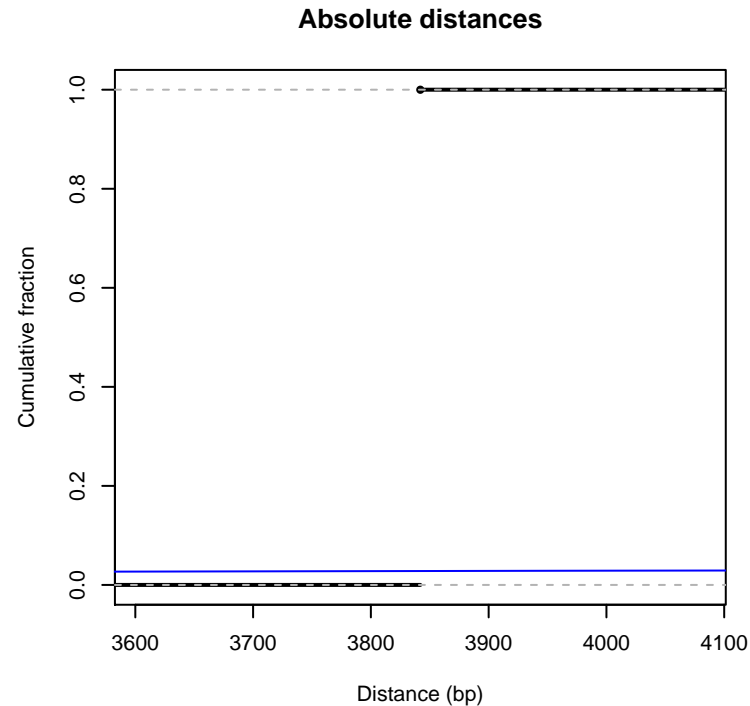
# pcontig\_110

Query population : 2  
Reference population : 26  
Relative Ks p-value : 0.363739  
Relative ecdf deviation area : 0.115954  
Relative ecdf area correlation : -0.240831  
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 : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0216627  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



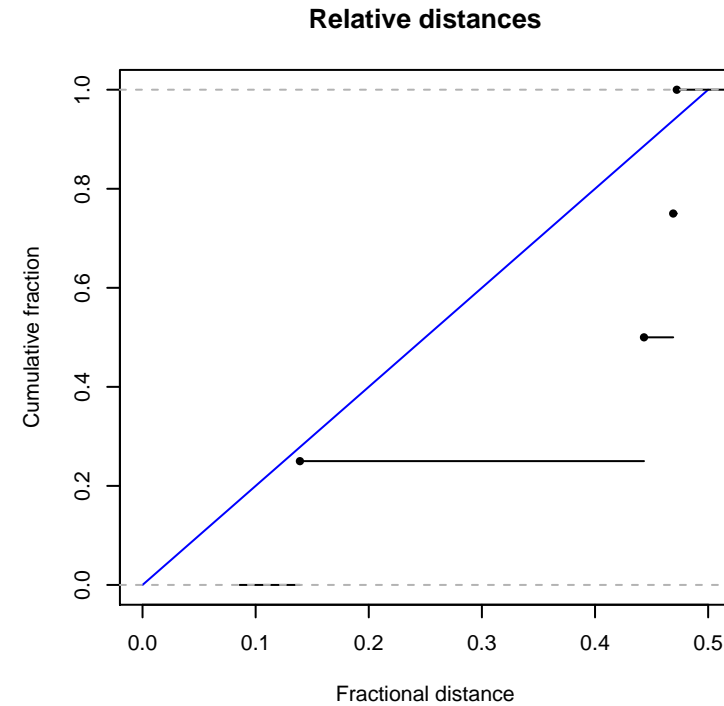
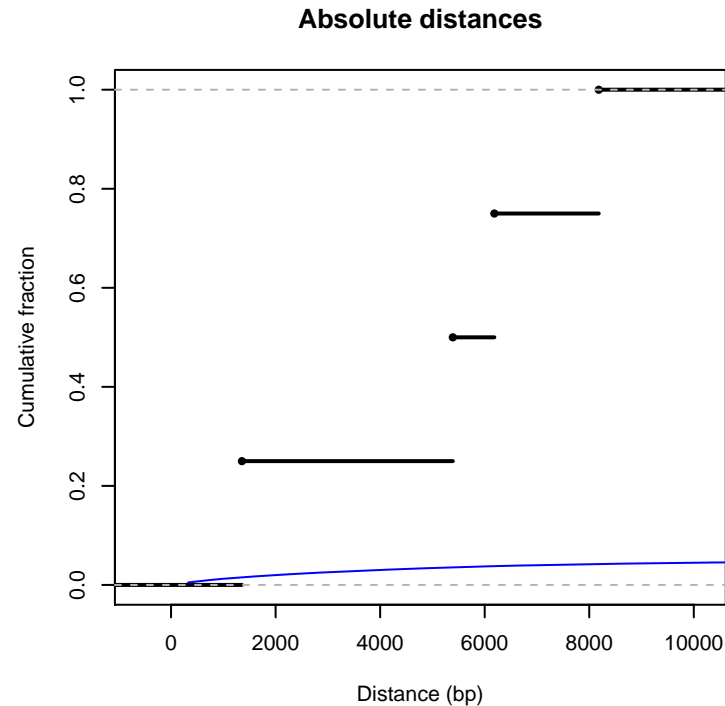
# pcontig\_112

Query population : 1  
Reference population : 18  
Relative Ks p-value : 0.56528  
Relative ecdf deviation area : 0.148922  
Relative ecdf area correlation : -0.43472  
Relative ecdf deviation area p-value : 0.63  
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 : 0.00553186  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



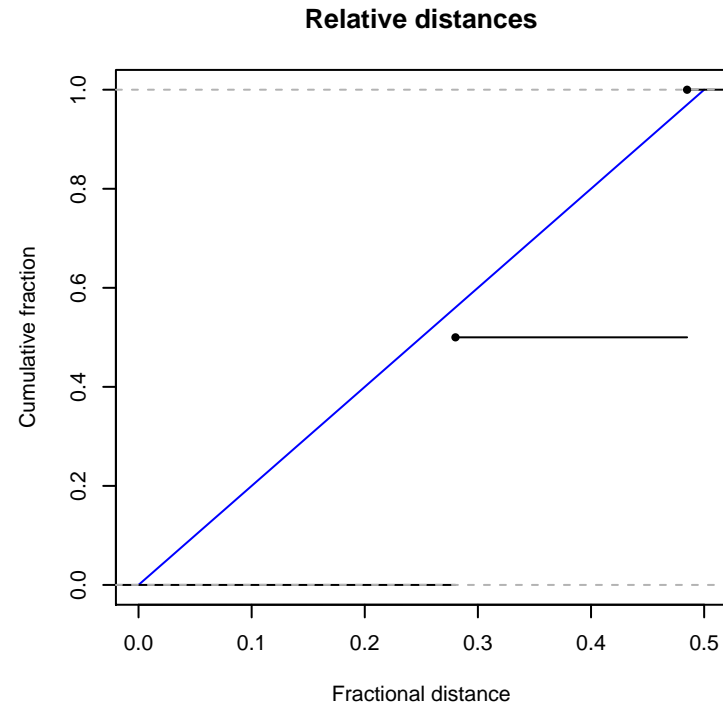
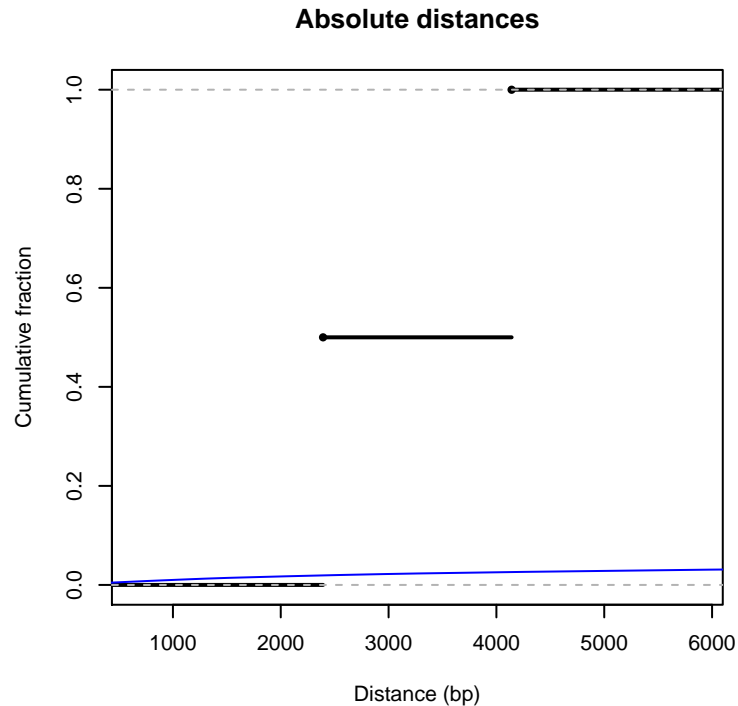
# pcontig\_115

Query population : 4  
Reference population : 23  
Relative Ks p-value : 0.0423295  
Relative ecdf deviation area : 0.132933  
Relative ecdf area correlation : -0.523797  
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 : 0.06000000000000001  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0238765  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



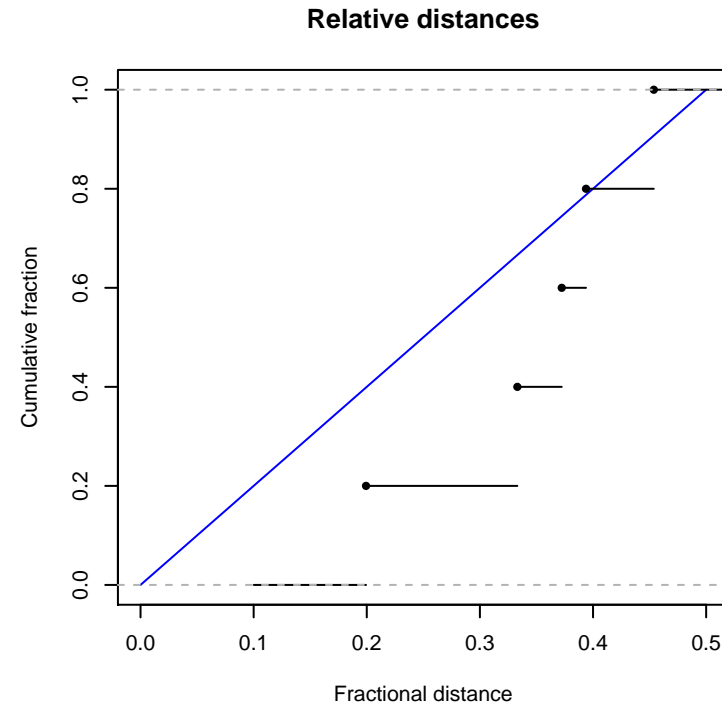
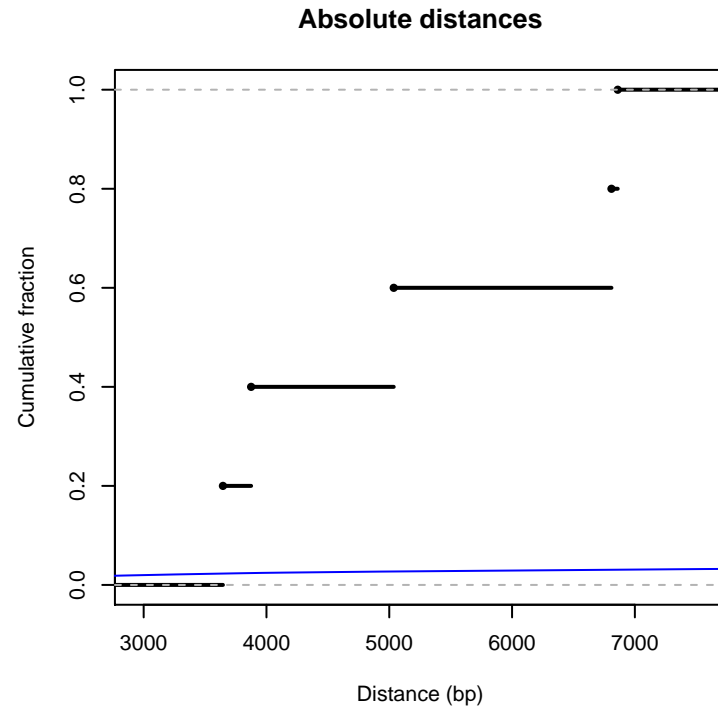
# pcontig\_120

Query population : 2  
Reference population : 17  
Relative Ks p-value : 0.386607  
Relative ecdf deviation area : 0.133468  
Relative ecdf area correlation : -0.530183  
Relative ecdf deviation area p-value : 0.25  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.010492  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_130

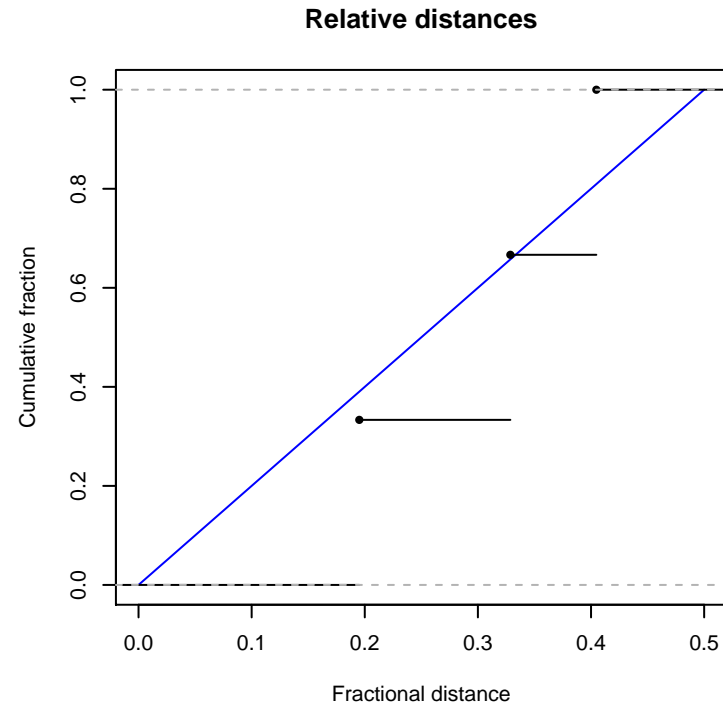
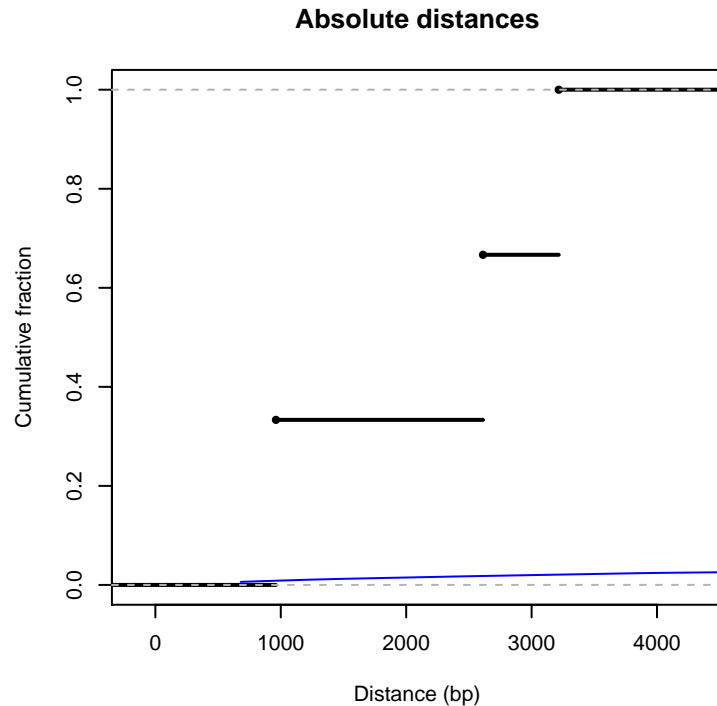
Query population : 5  
Reference population : 13  
Relative Ks p-value : 0.163897  
Relative ecdf deviation area : 0.105058  
Relative ecdf area correlation : -0.401836  
Relative ecdf deviation area p-value : 0.18  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.08  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0299154  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





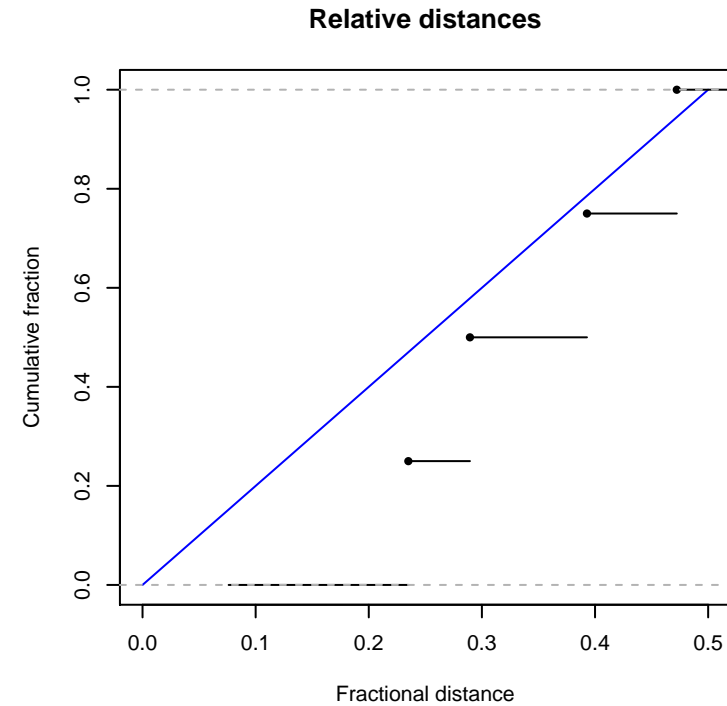
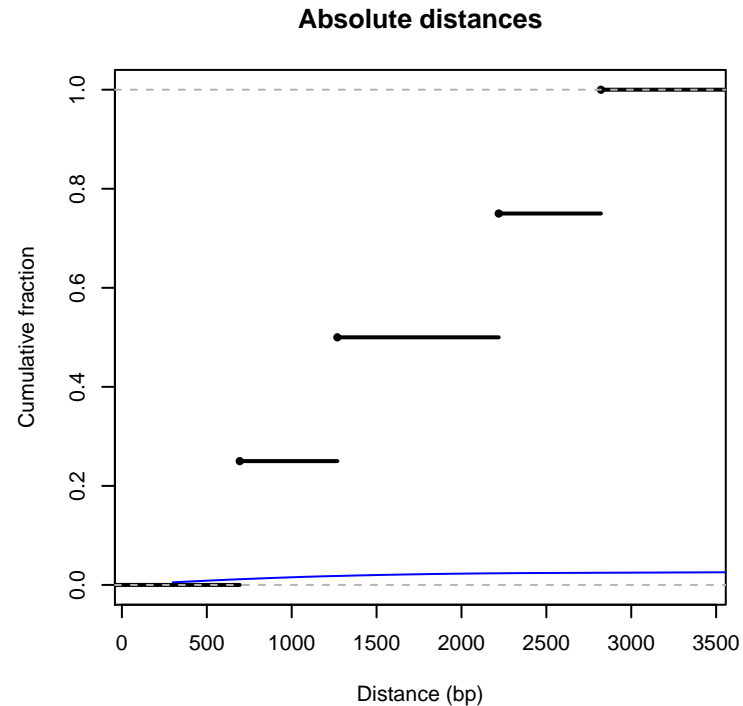
# pcontig\_138

Query population : 3  
Reference population : 14  
Relative Ks p-value : 0.621599  
Relative ecdf deviation area : 0.0780546  
Relative ecdf area correlation : -0.238055  
Relative ecdf deviation area p-value : 0.58  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.07  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0164051  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



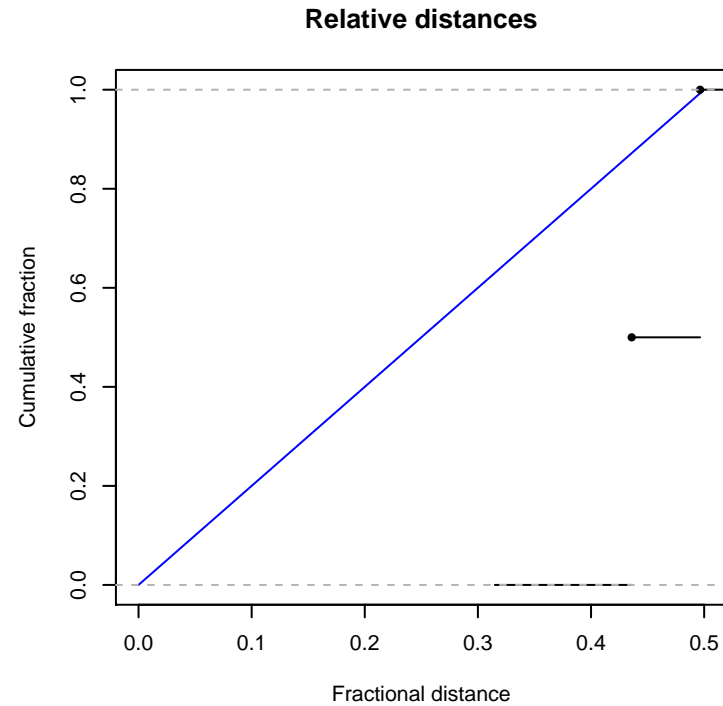
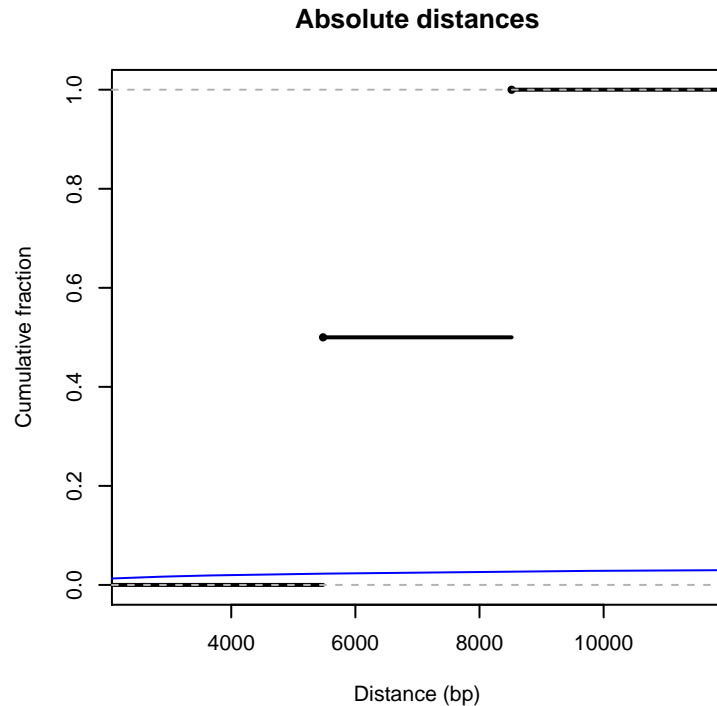
# pcontig\_146

Query population : 4  
Reference population : 27  
Relative Ks p-value : 0.245364  
Relative ecdf deviation area : 0.098698  
Relative ecdf area correlation : -0.389546  
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 : 0.08  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0471805  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



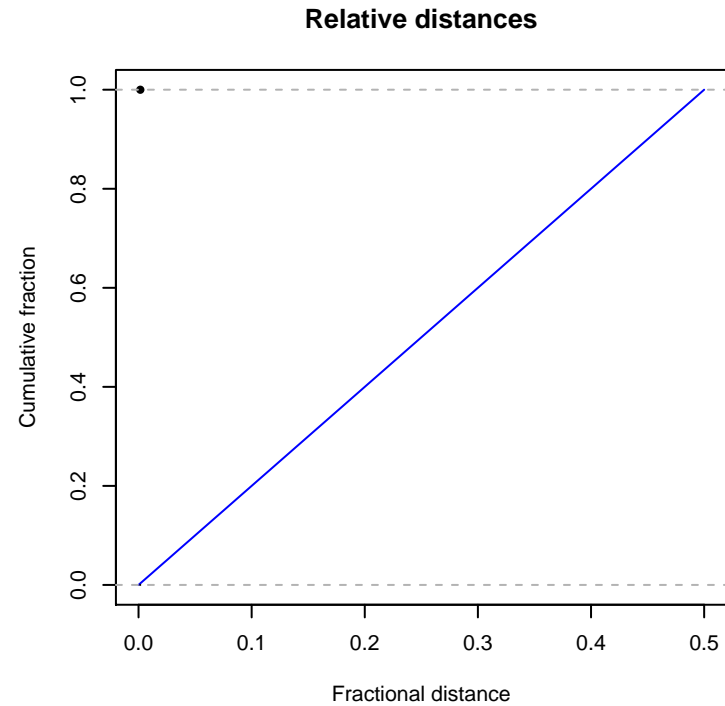
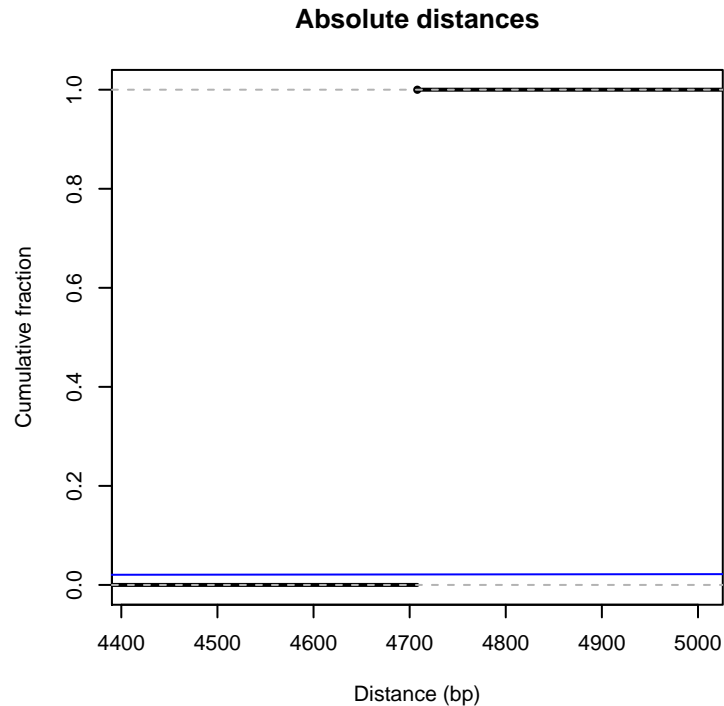
# pcontig\_147

Query population : 2  
Reference population : 12  
Relative Ks p-value : 0.0328354  
Relative ecdf deviation area : 0.21653  
Relative ecdf area correlation : -0.864666  
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 : 0.04  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0125686  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



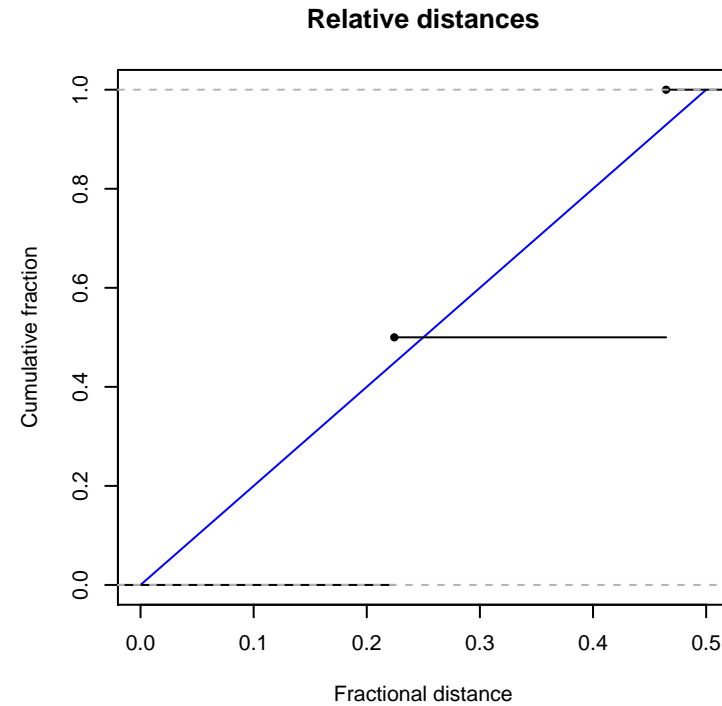
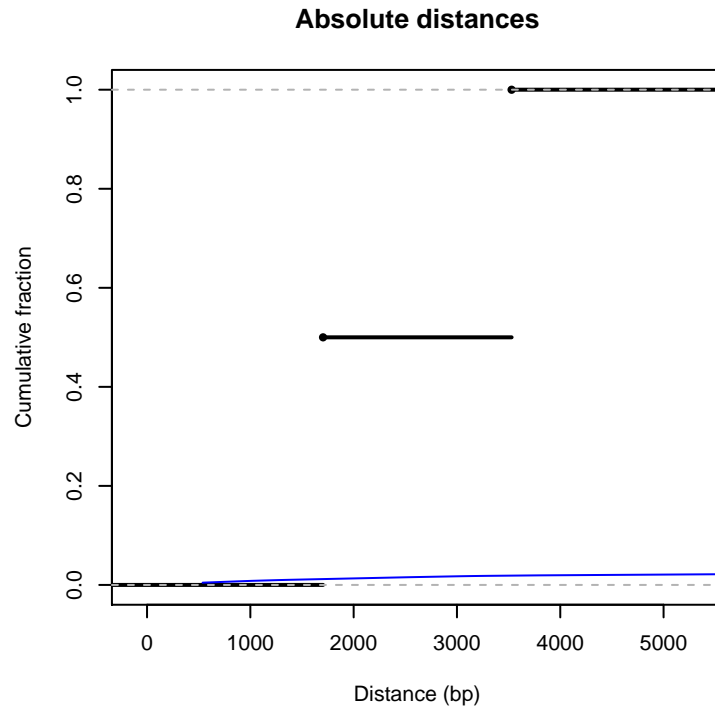
# pcontig\_148

Query population : 1  
Reference population : 14  
Relative Ks p-value : 0.00627528  
Relative ecdf deviation area : 0.24927  
Relative ecdf area correlation : 0.993725  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00977251  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



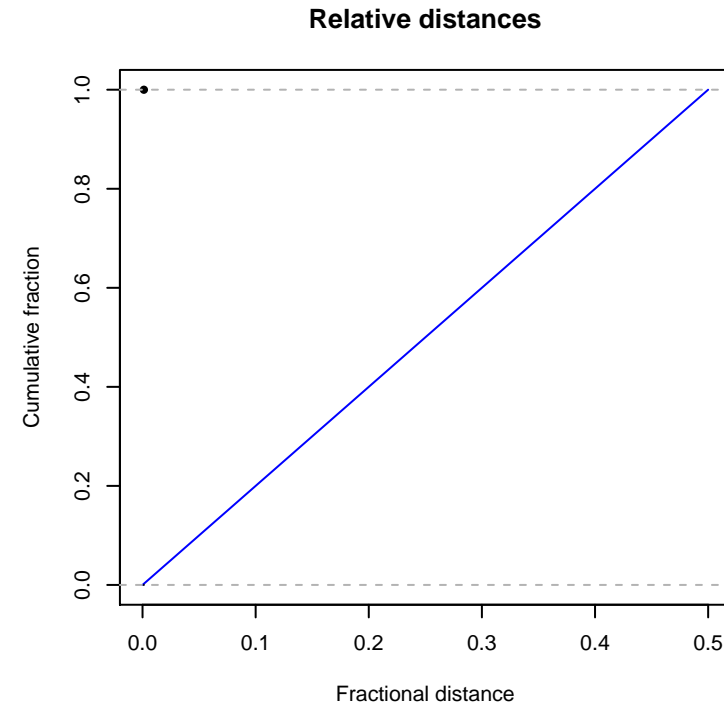
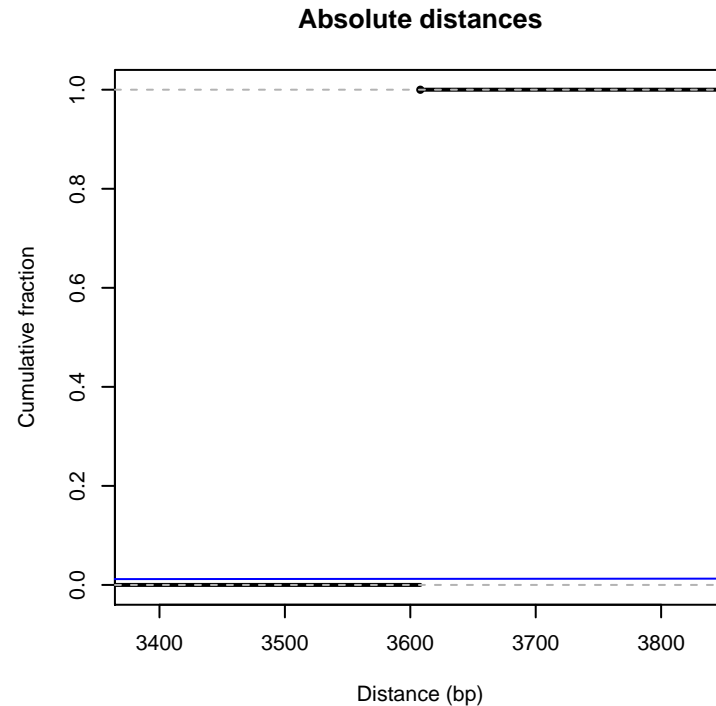
# pcontig\_157

Query population : 2  
Reference population : 13  
Relative Ks p-value : 0.684283  
Relative ecdf deviation area : 0.0984003  
Relative ecdf area correlation : -0.37783  
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 : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.008873  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



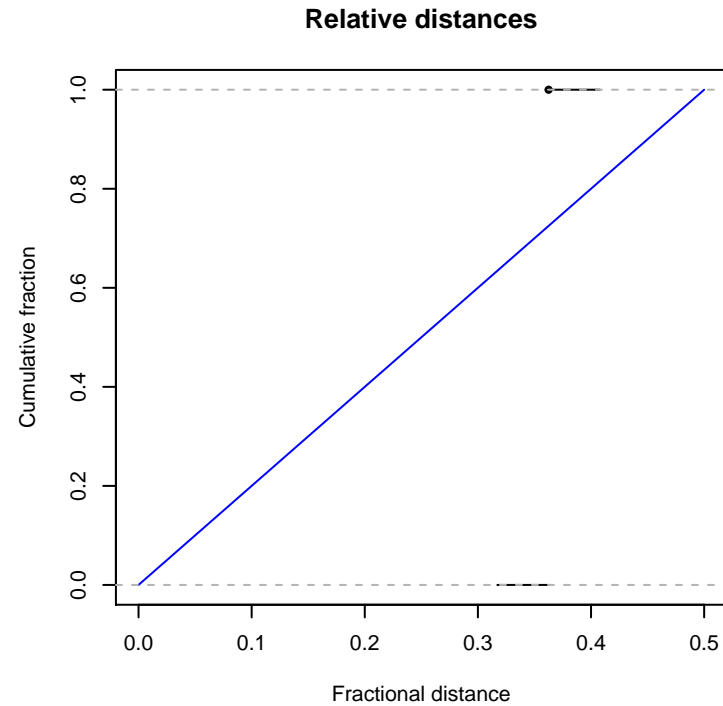
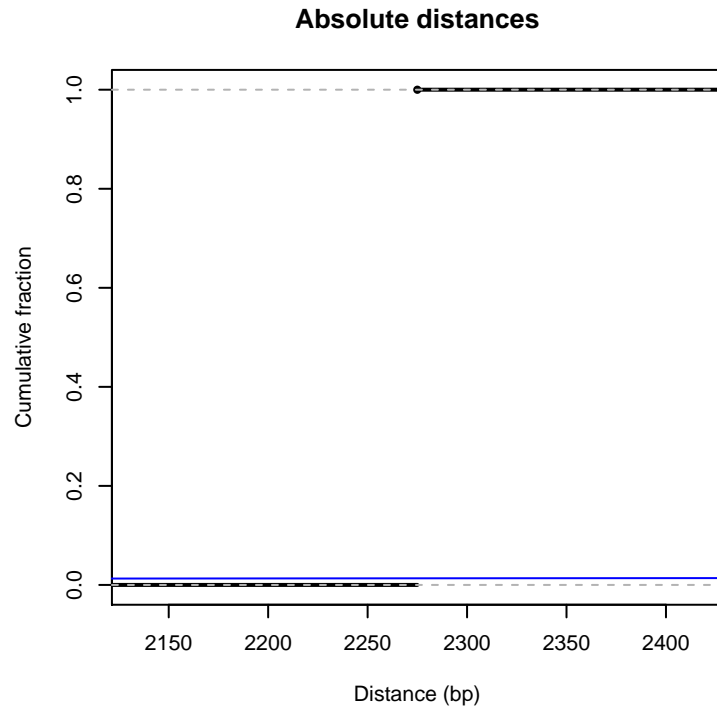
# pcontig\_166

Query population : 1  
Reference population : 8  
Relative Ks p-value : 0.00477282  
Relative ecdf deviation area : 0.24927  
Relative ecdf area correlation : 0.995227  
Relative ecdf deviation area p-value : <0.01  
Scaled Absolute min. distance p-value : 0.03  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00523992  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



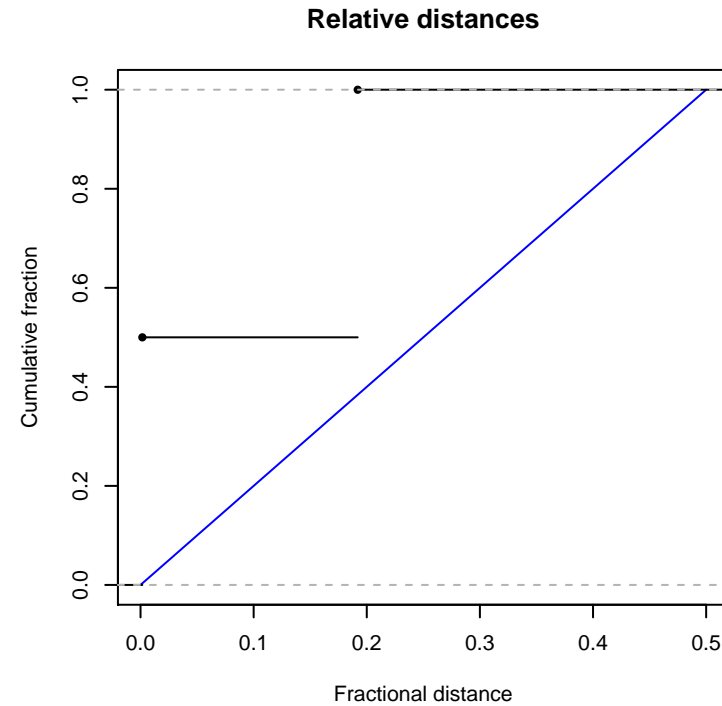
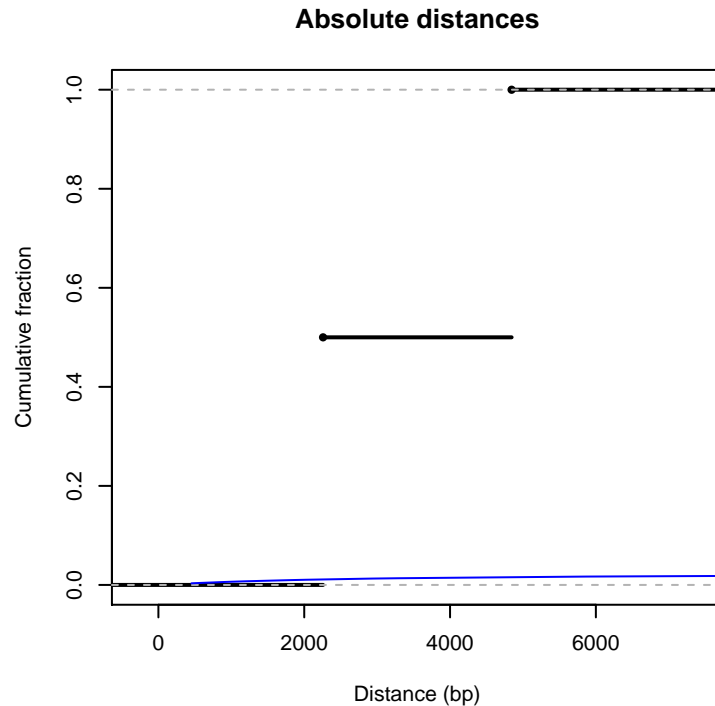
# pcontig\_174

Query population : 1  
Reference population : 12  
Relative Ks p-value : 0.550032  
Relative ecdf deviation area : 0.150641  
Relative ecdf area correlation : -0.449968  
Relative ecdf deviation area p-value : 0.55  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.05  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00675677  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_179

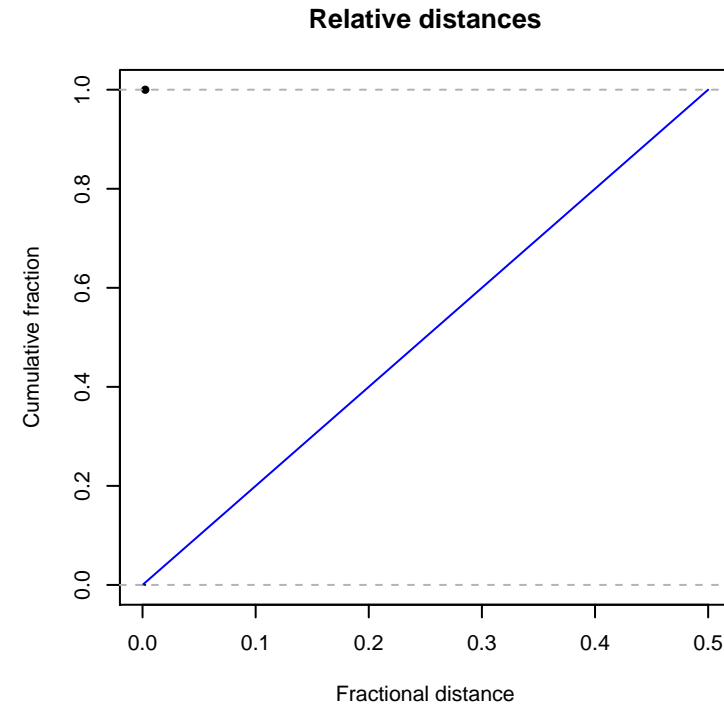
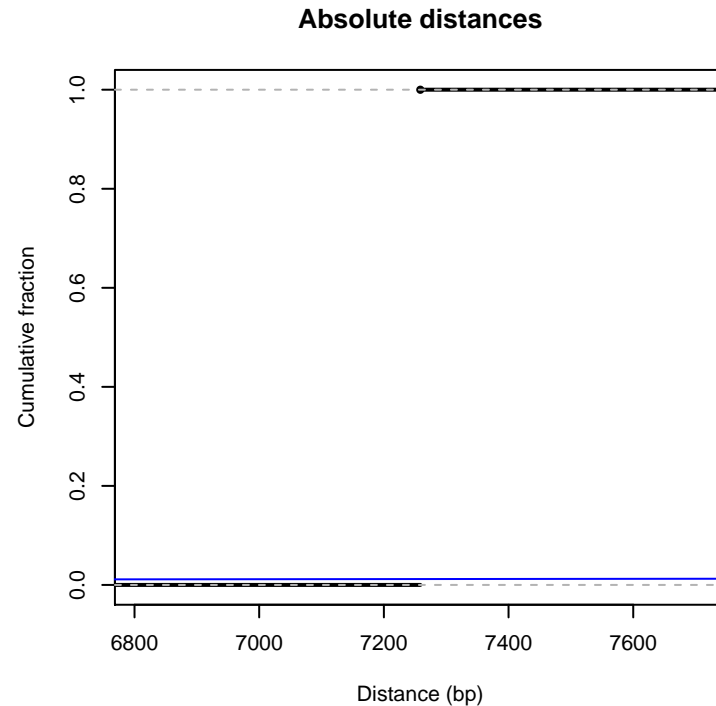
Query population : 2  
Reference population : 11  
Relative Ks p-value : 0.294813  
Relative ecdf deviation area : 0.152843  
Relative ecdf area correlation : 0.612859  
Relative ecdf deviation area p-value : 0.21  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.03  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00859144  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0





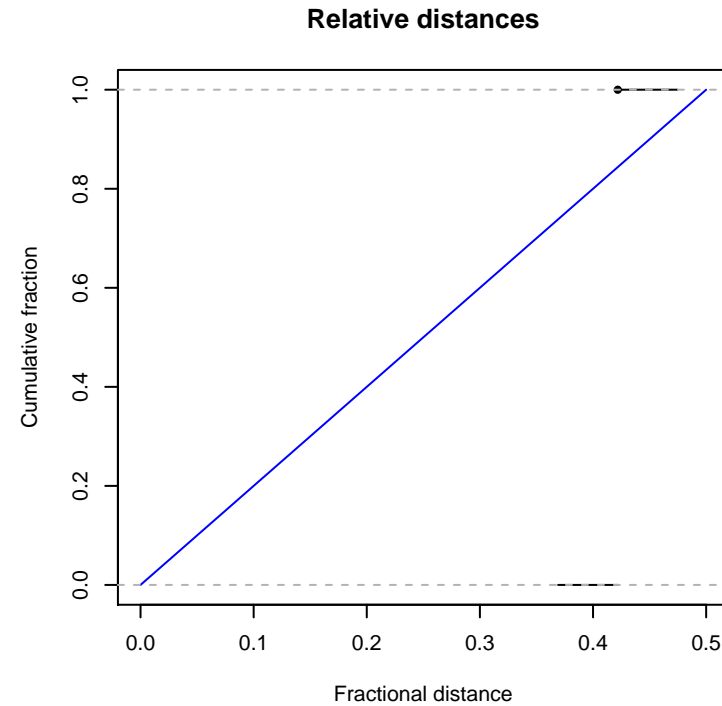
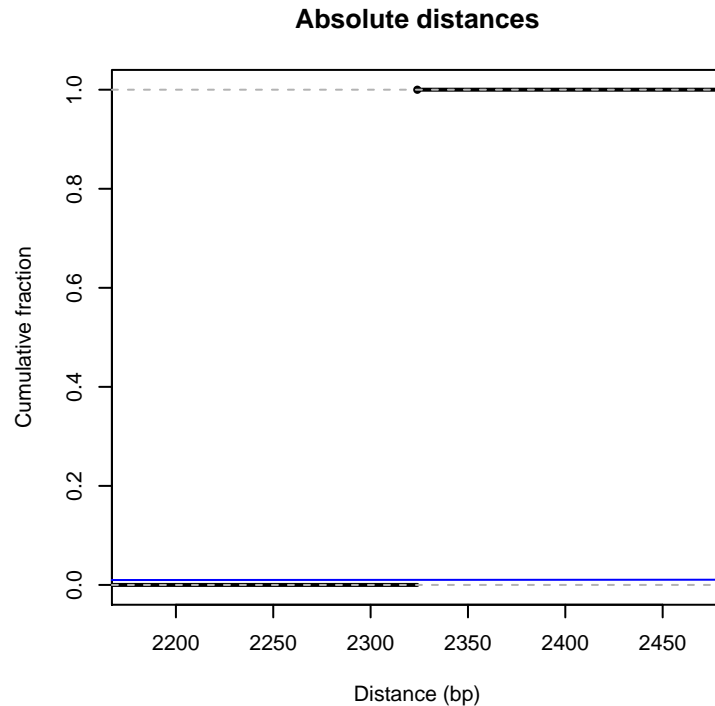
# pcontig\_181

Query population : 1  
Reference population : 5  
Relative Ks p-value : 0.00957098  
Relative ecdf deviation area : 0.246924  
Relative ecdf area correlation : 0.990429  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : 0.03  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0022885  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



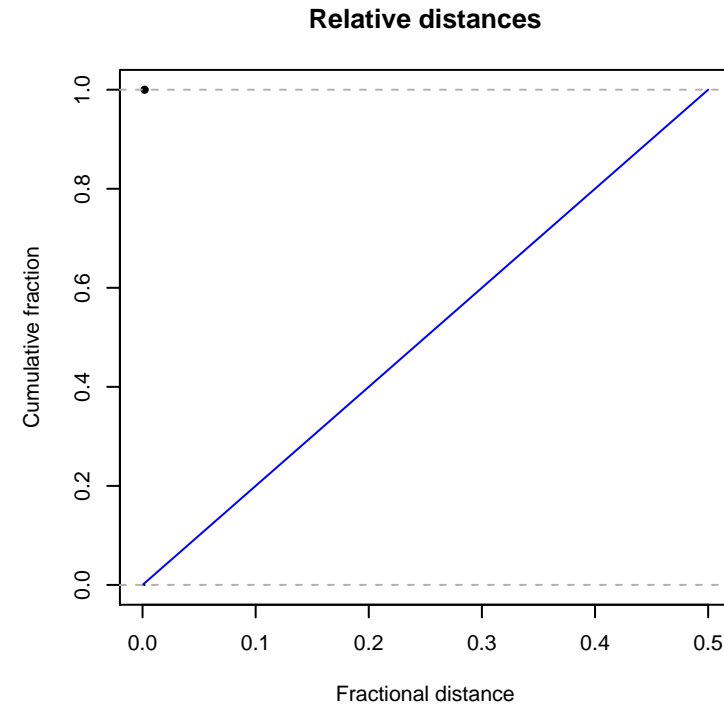
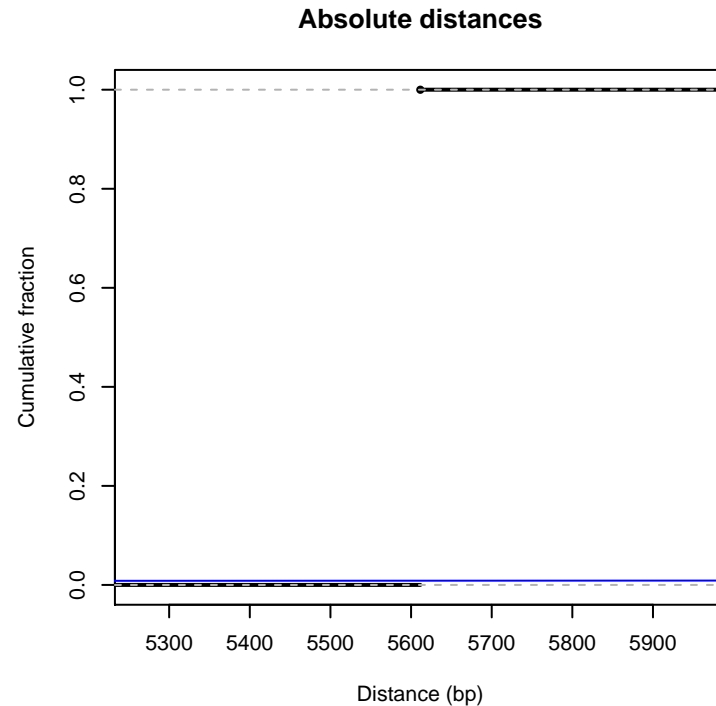
# pcontig\_186

Query population : 1  
Reference population : 10  
Relative Ks p-value : 0.312579  
Relative ecdf deviation area : 0.184082  
Relative ecdf area correlation : -0.687421  
Relative ecdf deviation area p-value : 0.35  
Scaled Absolute min. distance p-value : 0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00540809  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



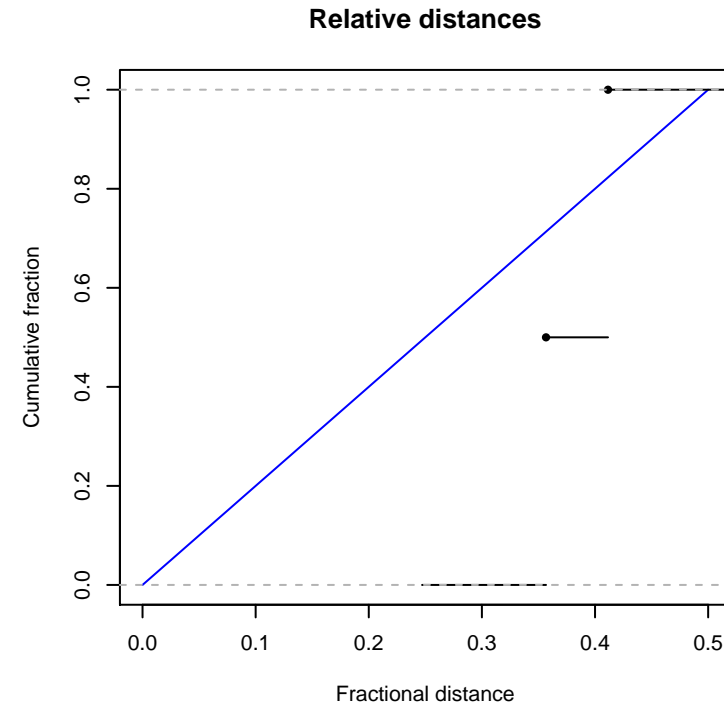
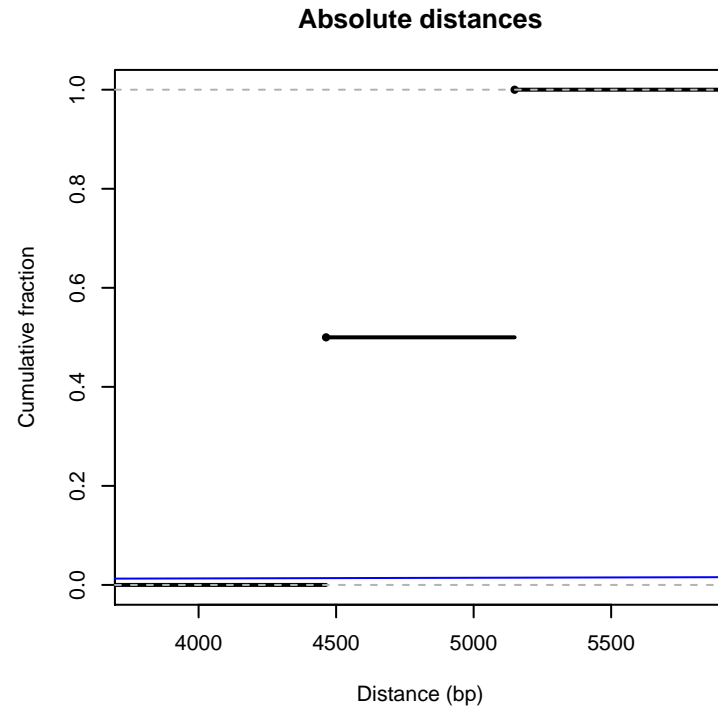
# pcontig\_187

Query population : 1  
Reference population : 4  
Relative Ks p-value : 0.00736605  
Relative ecdf deviation area : 0.248621  
Relative ecdf area correlation : 0.992634  
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 : 0.000965952  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



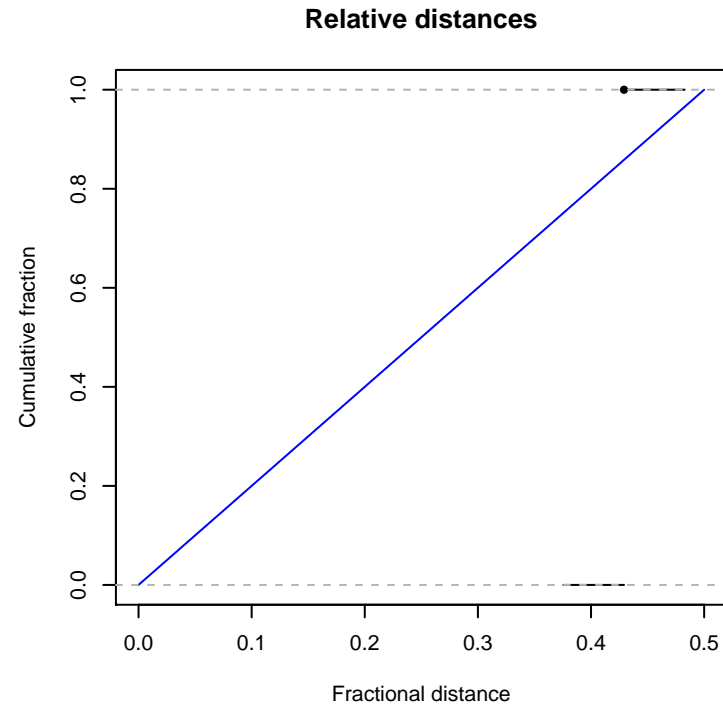
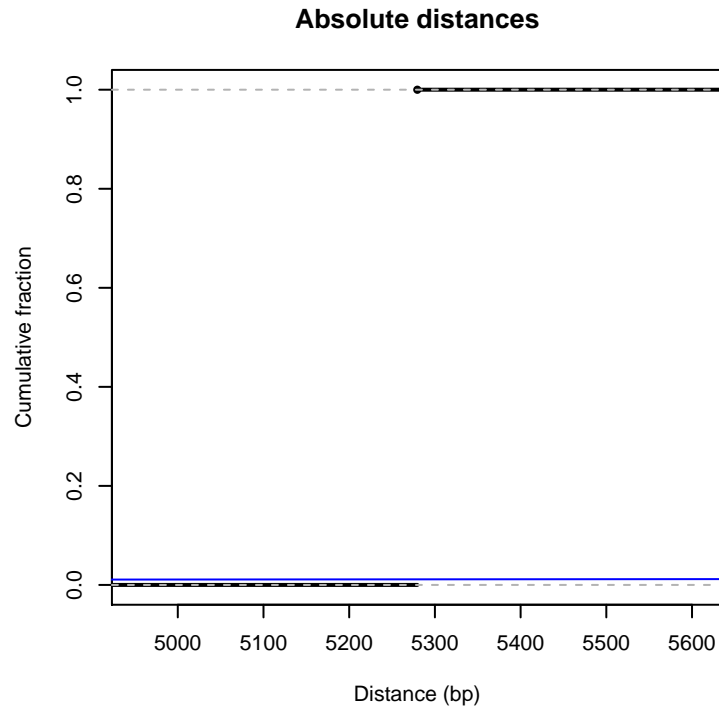
# pcontig\_188

Query population : 2  
Reference population : 12  
Relative Ks p-value : 0.164324  
Relative ecdf deviation area : 0.149882  
Relative ecdf area correlation : -0.536279  
Relative ecdf deviation area p-value : 0.21  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : 0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.010618  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



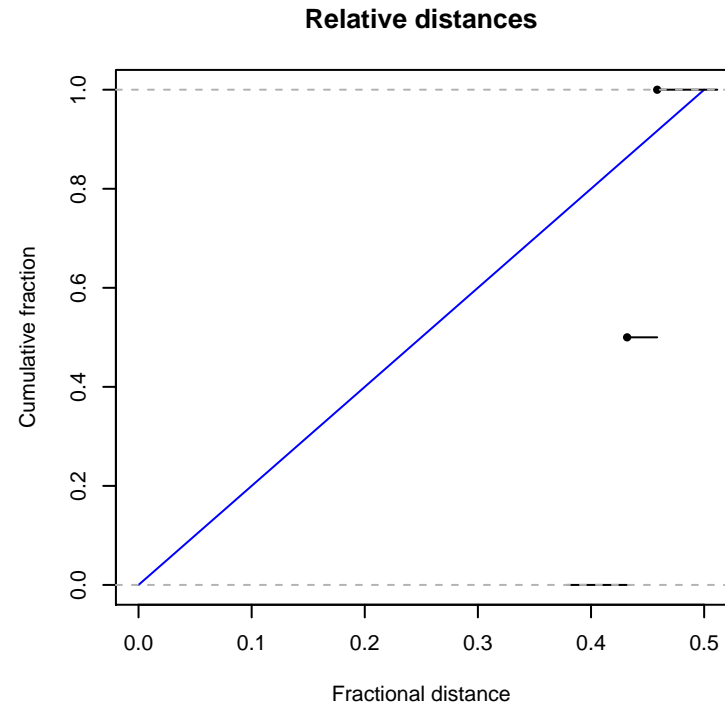
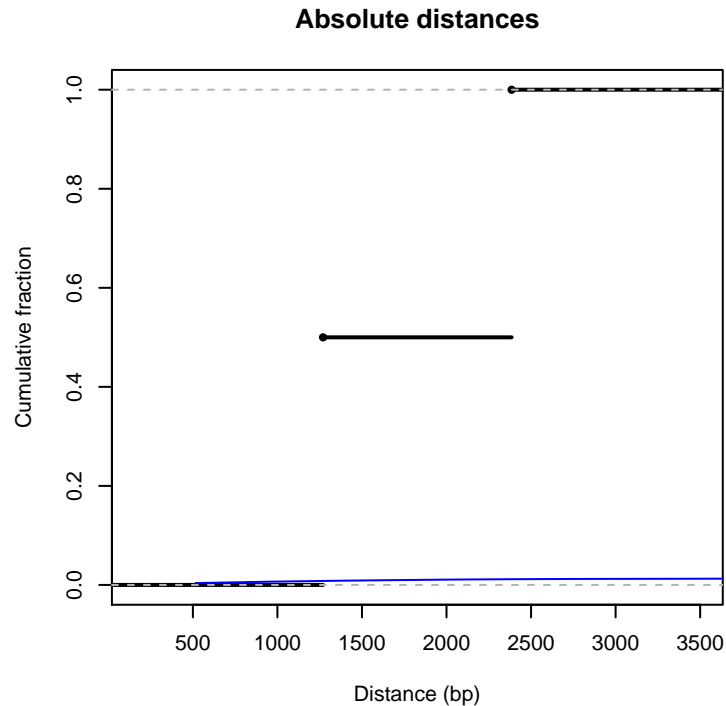
## pcontig\_189

Query population : 1  
Reference population : 7  
Relative Ks p-value : 0.283369  
Relative ecdf deviation area : 0.189188  
Relative ecdf area correlation : -0.716631  
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 : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00285442  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



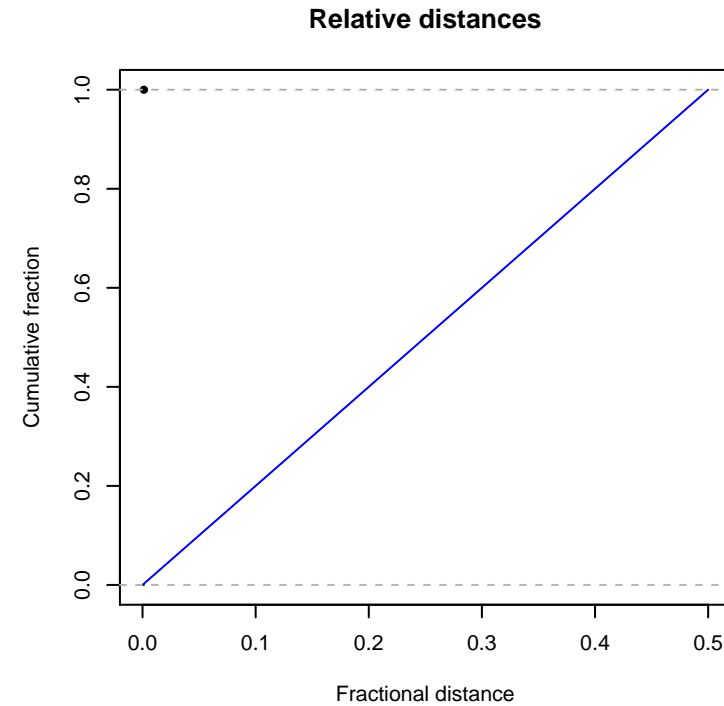
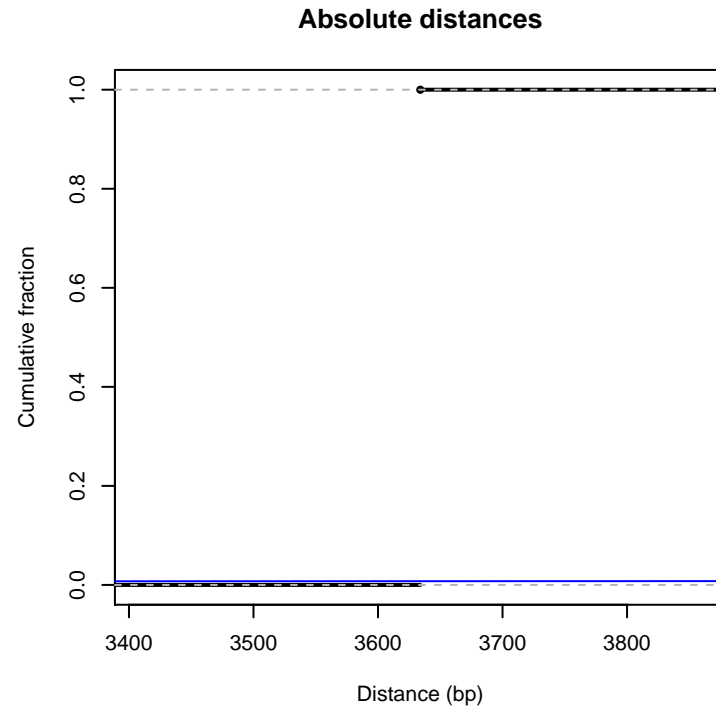
# pcontig\_203

Query population : 2  
Reference population : 11  
Relative Ks p-value : 0.0370914  
Relative ecdf deviation area : 0.198835  
Relative ecdf area correlation : -0.780785  
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 : 0.02  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.0103712  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



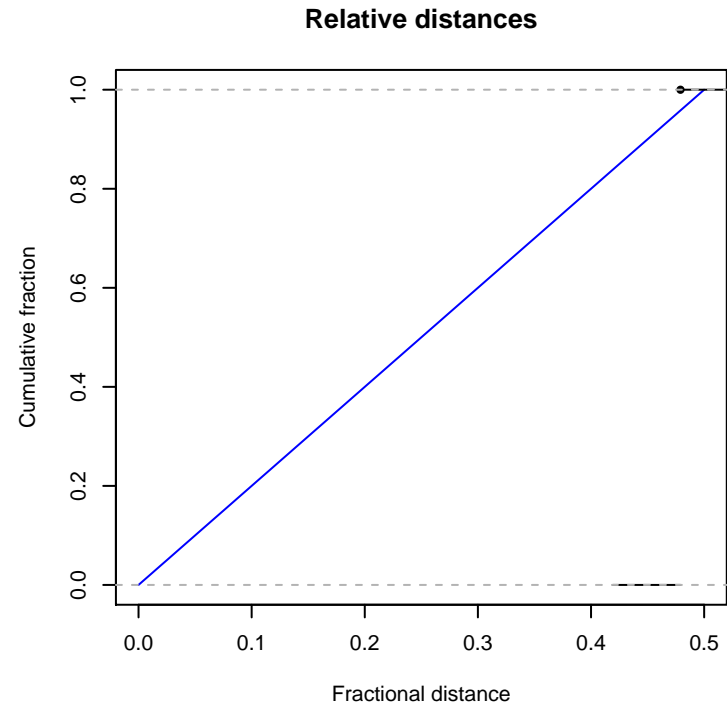
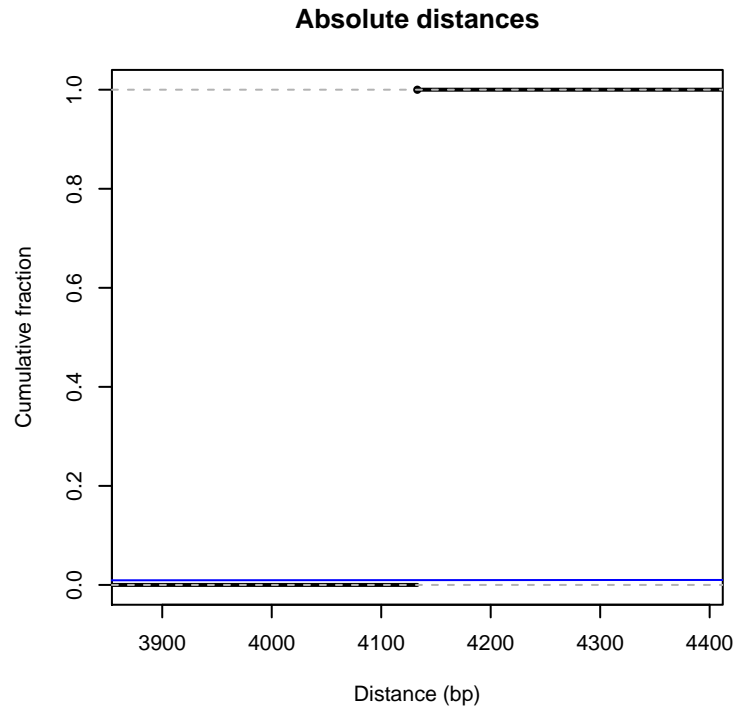
# pcontig\_218

Query population : 1  
Reference population : 4  
Relative Ks p-value : 0.00477151  
Relative ecdf deviation area : 0.24927  
Relative ecdf area correlation : 0.995228  
Relative ecdf deviation area p-value : 0.01  
Scaled Absolute min. distance p-value : 0.02  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.000892151  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0



# pcontig\_233

Query population : 1  
Reference population : 5  
Relative Ks p-value : 0.0836907  
Relative ecdf deviation area : 0.230263  
Relative ecdf area correlation : -0.916309  
Relative ecdf deviation area p-value : 0.04  
Scaled Absolute min. distance p-value : <0.01  
Scaled Absolute min. lower tail : TRUE  
Jaccard Measure p-value : <0.01  
Jaccard Measure lower tail : FALSE  
Projection test p-value : 0.00272348  
Projection test lower tail : FALSE  
Projection test observed to expected ratio : 0

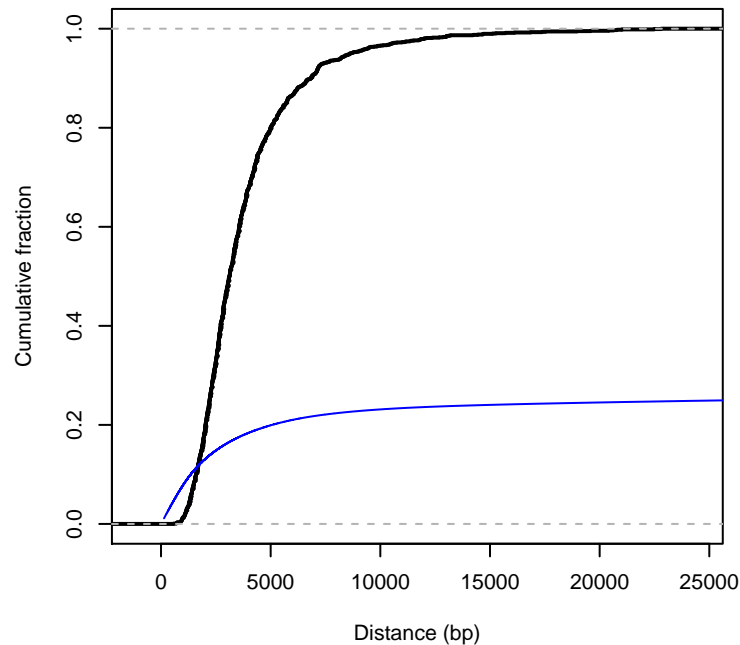




# All Chromosomes

Query population : 1444  
Reference population : 14194  
Relative Ks p-value : 0  
Relative ecdf deviation area : 0.0940479  
Relative ecdf area correlation : -0.375907  
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 : 1.09215e-39  
Projection test lower tail : TRUE  
Projection test observed to expected ratio : 0

Absolute distances



Relative distances

