

Baccala2001a ex3

```
% ===== Boxplot 1 =====
str_var = 'iPDC';
str_varname = 'pValuesiPdc';
str_bartitle = 'Baccala2001a ex3 ';
str_suptitle = 'iPDC';
xboxplot_var;

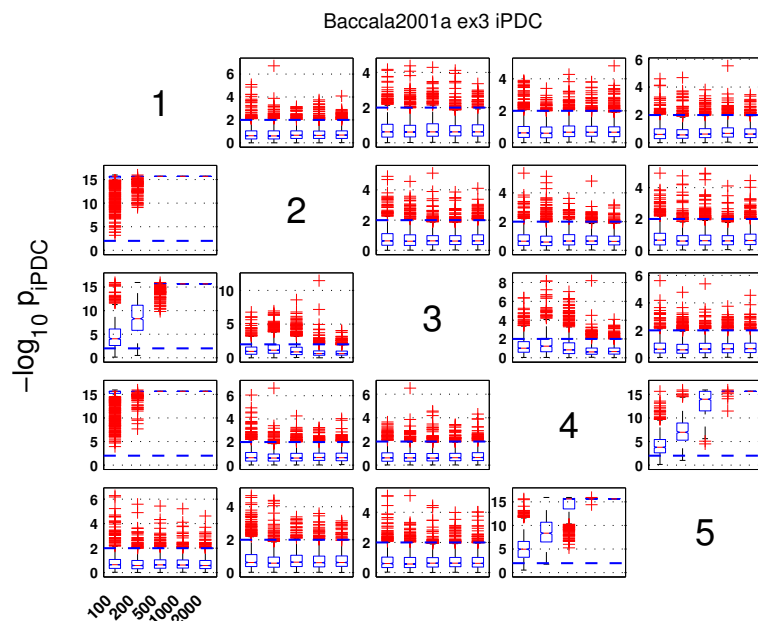
%%===== Boxplot 2 =====
str_var = 'GCT';
str_varname = 'pValuesGct';
str_bartitle = 'Baccala2001 ex3: ';
str_suptitle = 'GCT (Wald)';
xboxplot_var;

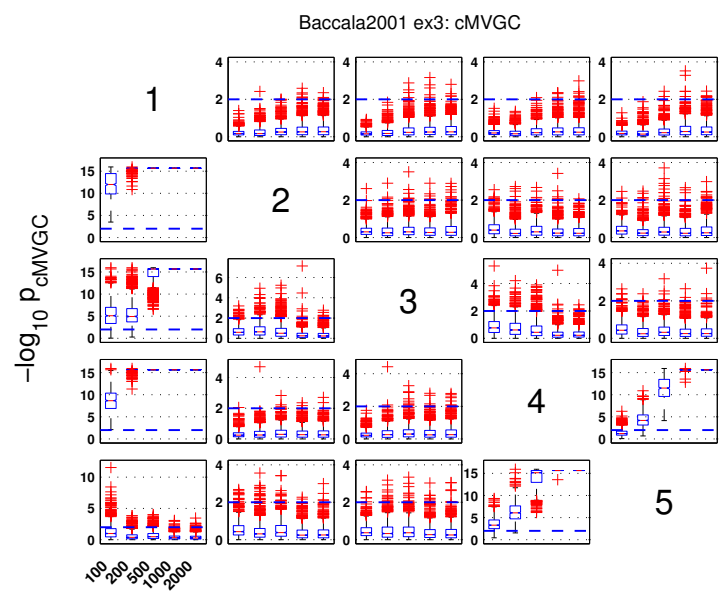
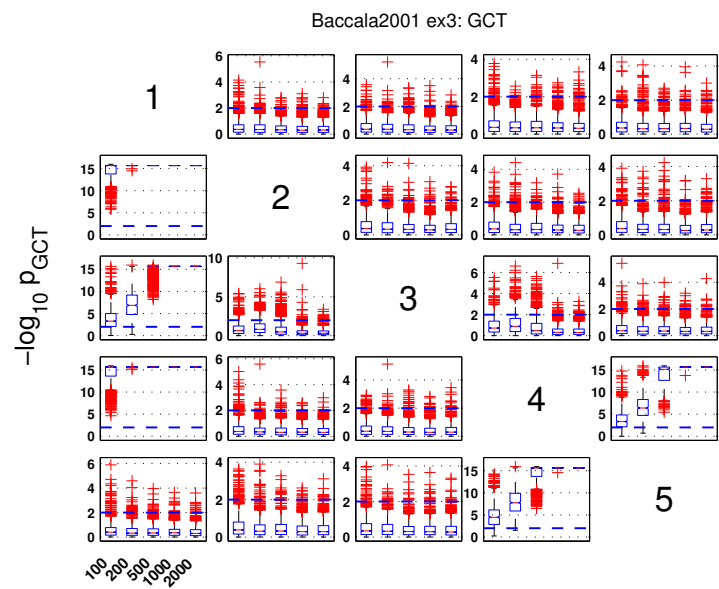
% ===== Boxplot 3 =====

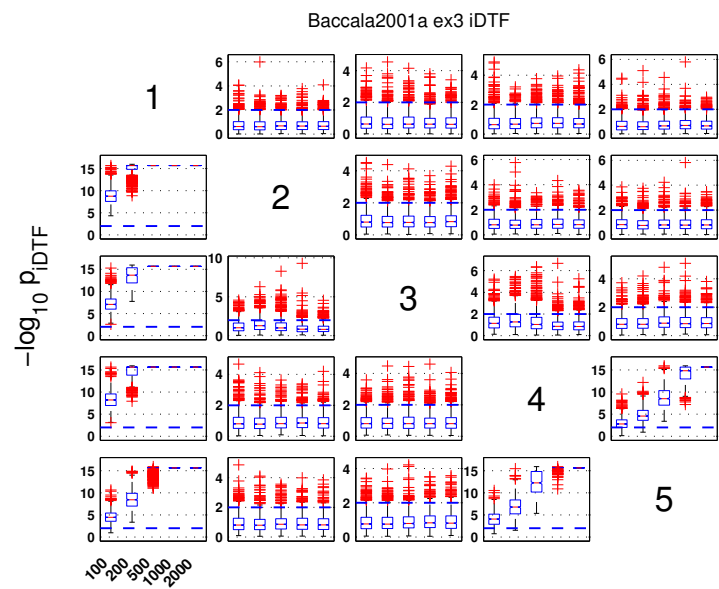
str_var = 'cMVGC';
str_varname = 'pValmvgc';
str_model = 'Baccala2001a ex3 ';
str_suptitle = 'cMVGC';
xboxplot_var;

% ===== Boxplot 4 =====

str_var = 'iDTF';
str_varname = 'pValuesiDtf';
str_bartitle = 'Baccala2001a ex3 ';
str_suptitle = 'iDTF';
xboxplot_var;
```







=== Scatterplot GCT x iPDC ===

```

str_varX = 'pValuesGct';
str_FNX = ''; % GCT: ''; iPDC: 'ipdc'; SethGC: 'mv'
str_measureX = 'GCT';
str_varY = 'pValuesiPdc';
str_FNY = 'ipdc'; % see above
str_measureY = 'iPDC';
str_model = 'Baccala2001a ex3 ';
flgAdj = 0;
str_suptitle = 'GCT x iPDC';
xscatterplot_vars;

```

```

trueStruct =
    NaN     0     0     0     0
     1    NaN     0     0     0
     1     0    NaN     0     0
     1     0     0    NaN     1
     0     0     0     1    NaN

```

```

trueReachab =
    NaN     0     0     0     0
     1    NaN     0     0     0
     1     0    NaN     0     0
     1     0     0    NaN     1
     1     0     0     1    NaN

```

```

-----
Baccala2001a ex3 : GCT x iPDC
-----

```

ns = 100:

```

b =
    NaN     1.1304     1.1270     1.1381     1.1318
    0.3428     NaN     1.1130     1.1272     1.0943
    1.2028     1.1096     NaN     1.0870     1.1080
    0.6194     1.1044     1.1143     NaN     1.0094
    1.1149     1.1490     1.1236     0.9728     NaN

rho =
    NaN     0.9787     0.9788     0.9770     0.9789
    0.2413     NaN     0.9799     0.9796     0.9792
    0.9932     0.9801     NaN     0.9783     0.9767
    0.4484     0.9768     0.9774     NaN     0.9836
    0.9687     0.9790     0.9779     0.9760     NaN

```

ns = 200:

```

b =
    NaN     1.1439     1.1297     1.1717     1.0982
    NaN     NaN     1.1696     1.1499     1.1178
    1.2120     1.1205     NaN     1.1228     1.1246
    NaN     1.1281     1.1554     NaN     0.9892
    1.1060     1.1046     1.1518     0.9876     NaN

rho =
    NaN     0.9745     0.9752     0.9744     0.9740
    NaN     NaN     0.9739     0.9739     0.9701
    0.9936     0.9781     NaN     0.9831     0.9753
    NaN     0.9658     0.9729     NaN     0.9639
    0.9621     0.9734     0.9760     0.9588     NaN

```

ns = 500:

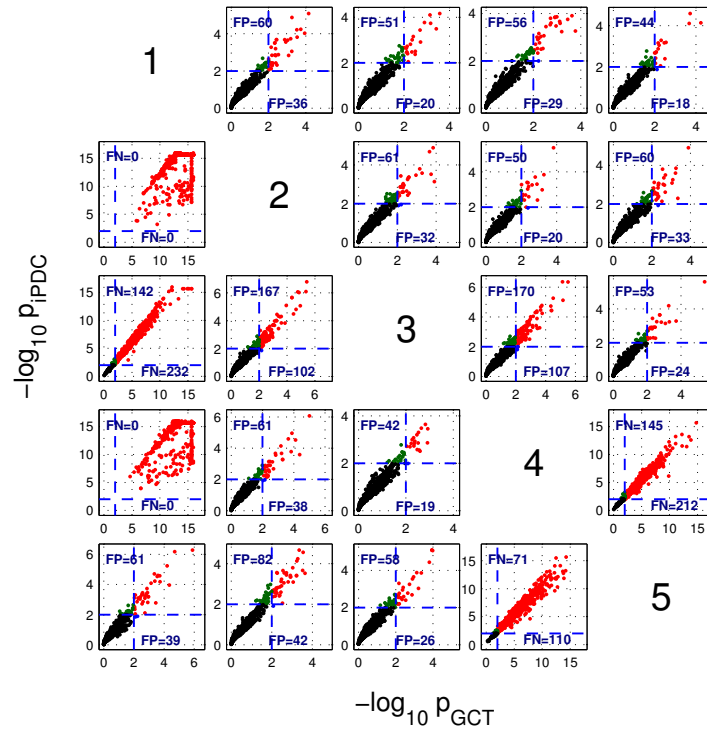
b =

	NaN	1.1712	1.1598	1.1633	1.1639
	NaN	NaN	1.1744	1.0921	1.1370
1.1444	1.1217	NaN	1.1012	1.1399	
	NaN	1.1763	1.1767	NaN	0.7399
1.1750	1.1870	1.2135	0.8738	NaN	
rho =					
	NaN	0.9563	0.9581	0.9551	0.9551
	NaN	NaN	0.9533	0.9591	0.9581
0.9509	0.9737	NaN	0.9752	0.9620	
	NaN	0.9591	0.9589	NaN	0.6420
0.9346	0.9595	0.9517	0.7687	NaN	

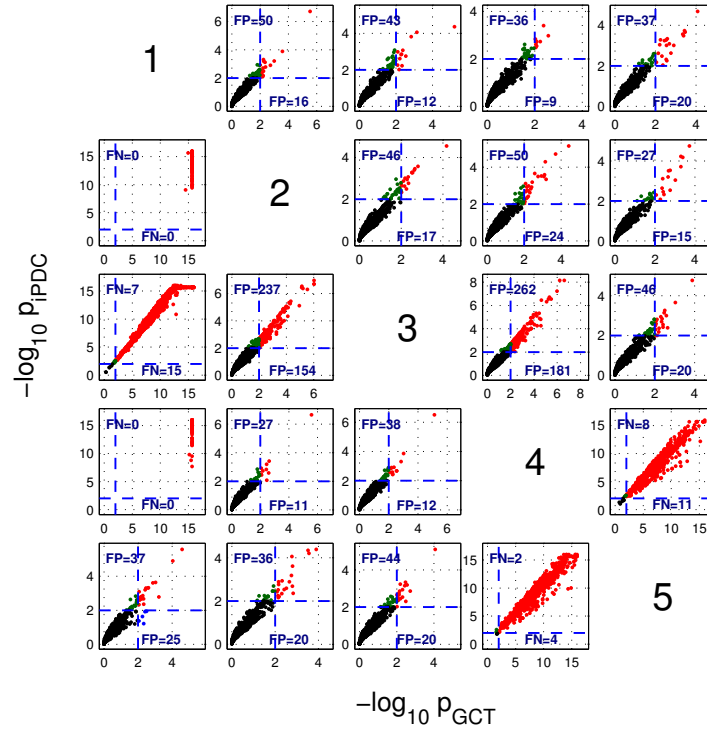
ns = 1000:					
b =					
	NaN	1.1577	1.2051	1.1957	1.1719
	NaN	NaN	1.1723	1.1660	1.1914
	NaN	1.1844	NaN	1.1792	1.1320
	NaN	1.2017	1.1949	NaN	NaN
1.1177	1.1746	1.1221	NaN	NaN	
rho =					
	NaN	0.9586	0.9551	0.9534	0.9586
	NaN	NaN	0.9471	0.9515	0.9558
	NaN	0.9532	NaN	0.9549	0.9580
	NaN	0.9523	0.9555	NaN	NaN
0.8947	0.9543	0.9508	NaN	NaN	

ns = 2000:					
b =					
	NaN	1.1863	1.1941	1.2009	1.1833
	NaN	NaN	1.1917	1.1707	1.2025
	NaN	1.1911	NaN	1.1922	1.1745
	NaN	1.2371	1.1738	NaN	NaN
1.1358	1.1618	1.2304	NaN	NaN	
rho =					
	NaN	0.9544	0.9512	0.9512	0.9565
	NaN	NaN	0.9564	0.9556	0.9625
	NaN	0.9535	NaN	0.9540	0.9579
	NaN	0.9535	0.9571	NaN	NaN
0.9031	0.9527	0.9590	NaN	NaN	

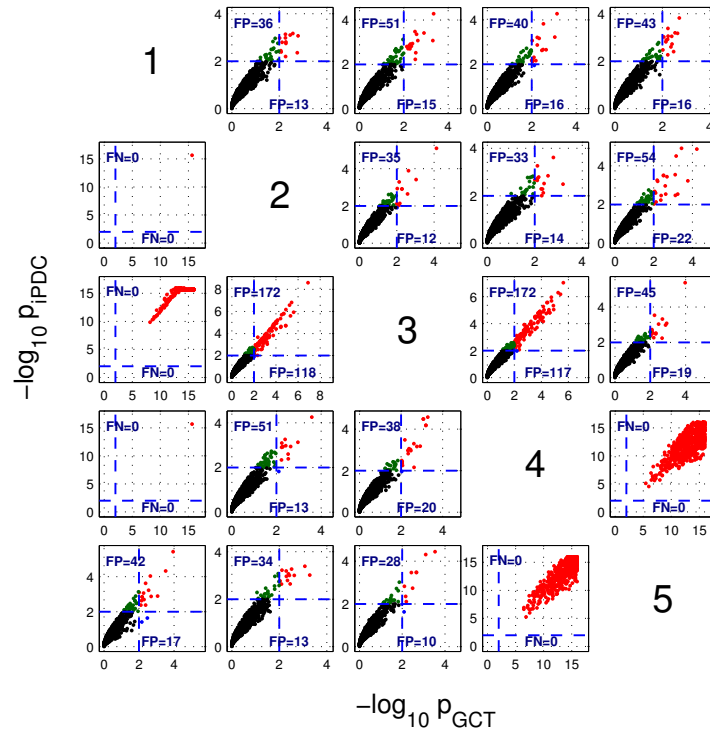
Baccala2001a ex3 ns=100: GCT x iPDC



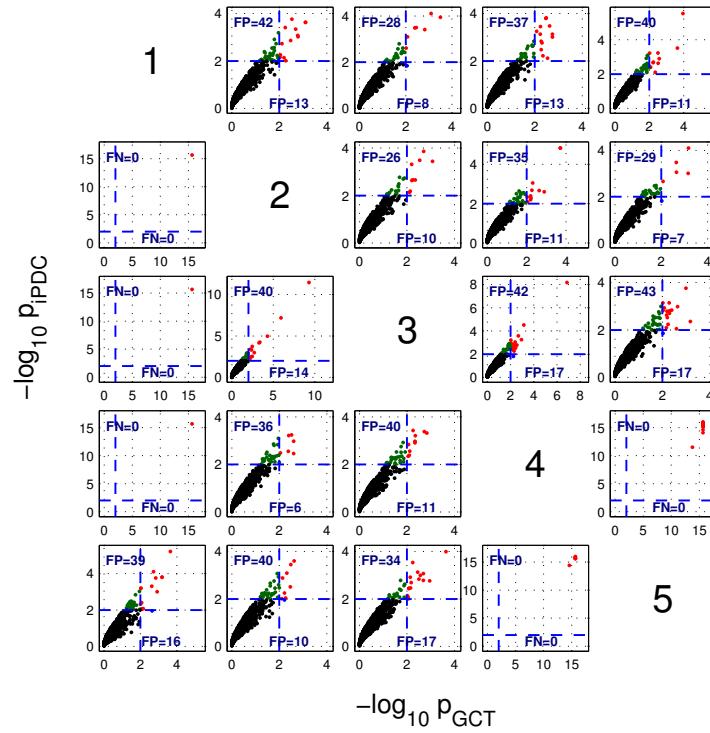
Baccala2001a ex3 ns=200: GCT x iPDC



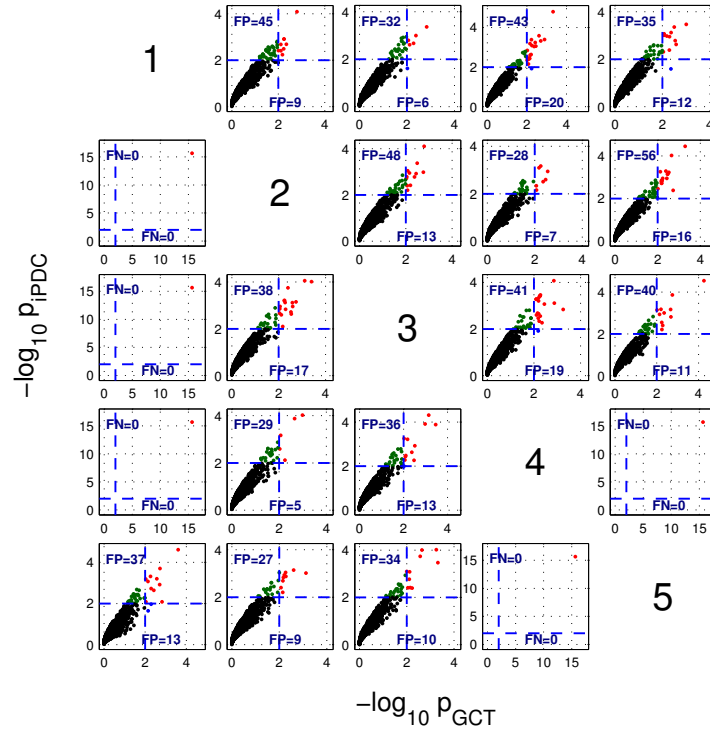
Baccala2001a ex3 ns=500: GCT x iPDC



Baccala2001a ex3 ns=1000: GCT x iPDC



Baccala2001a ex3 ns=2000: GCT x iPDC



=== Scaterplot GCT x iDTF ===

```

str_varX = 'pValuesGct';
str_FNX = ''; % GCT: ''; iPDC: 'ipdc'; SethGC: 'mv'
str_measureX = 'GCT';
str_varY = 'pValuesiDtf';
str_FNY = 'idtf'; % see above
str_measureY = 'iDTF';
str_model = 'Baccala2001a ex3 ';
flgAdj = 0;
str_suptitle = 'GCT x iDTF';
xscatterplot_vars;

```

Baccala2001a ex3 : GCT x iDTF

ns = 100:

b =

NaN	0.9408	1.0154	0.9098	0.9330
0.1811	NaN	0.7294	0.6639	0.6515
0.1917	0.7819	NaN	0.7444	0.5997
0.2566	0.6972	0.6368	NaN	0.4913
0.1620	0.7798	0.7942	0.5529	NaN

rho =

NaN	0.9299	0.9399	0.7933	0.8541
0.1988	NaN	0.6941	0.5967	0.6503
0.2755	0.8048	NaN	0.7433	0.5524
0.3481	0.6340	0.6110	NaN	0.8300
0.0202	0.7333	0.7402	0.8885	NaN

ns = 200:

b =

NaN	1.0611	1.0870	1.0223	0.9428
NaN	NaN	0.7821	0.6928	0.6831
-0.0178	0.8105	NaN	0.7296	0.6827
NaN	0.7149	0.7816	NaN	0.5021
0.3730	0.8493	0.8743	0.6429	NaN

rho =

NaN	0.9479	0.9605	0.8147	0.8499
NaN	NaN	0.6838	0.5774	0.6224
-0.0141	0.8365	NaN	0.7825	0.5545
NaN	0.5601	0.6426	NaN	0.7981
0.0470	0.6567	0.7305	0.8545	NaN

ns = 500:

b =

NaN	1.1205	1.1199	1.0201	1.0463
NaN	NaN	0.8508	0.7070	0.7009
NaN	0.8913	NaN	0.8448	0.7325
NaN	0.7643	0.8287	NaN	0.5042
-0.1471	0.8902	0.8987	0.6172	NaN

rho =

NaN	0.9454	0.9472	0.8154	0.8531
NaN	NaN	0.6547	0.5828	0.5981
NaN	0.8177	NaN	0.7499	0.5547
NaN	0.6012	0.6271	NaN	0.5500
-0.1006	0.7144	0.6576	0.6888	NaN

ns = 1000:

b =

NaN	1.1232	1.1970	1.0378	1.0020
NaN	NaN	0.8435	0.7960	0.7812
NaN	0.9496	NaN	0.8184	0.8285
NaN	0.7753	0.8145	NaN	NaN
NaN	0.9148	0.9080	NaN	NaN

rho =

NaN	0.9527	0.9487	0.8035	0.8081
NaN	NaN	0.6604	0.5649	0.5629
NaN	0.7452	NaN	0.5985	0.6189
NaN	0.6042	0.6178	NaN	NaN
NaN	0.6947	0.7022	NaN	NaN

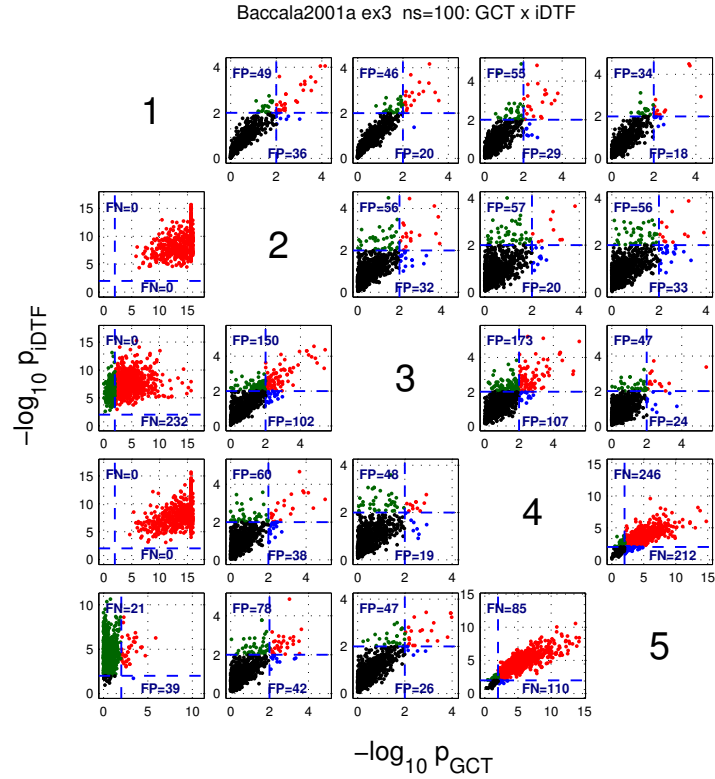
ns = 2000:

b =

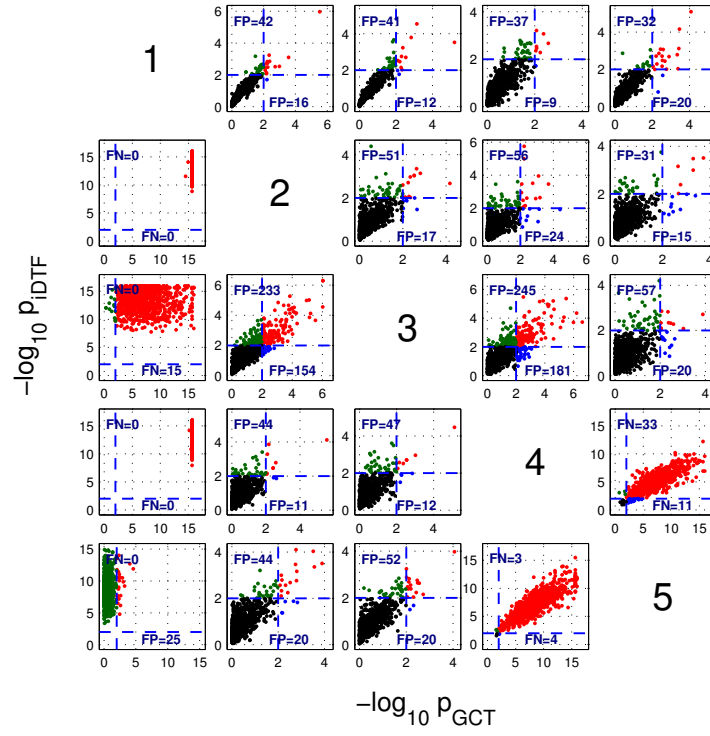
NaN	1.1813	1.1781	1.1254	1.0294
NaN	NaN	0.9161	0.7446	0.7673
NaN	0.9681	NaN	0.8515	0.8341
NaN	0.7592	0.8373	NaN	NaN
NaN	0.8930	0.9444	NaN	NaN

rho =

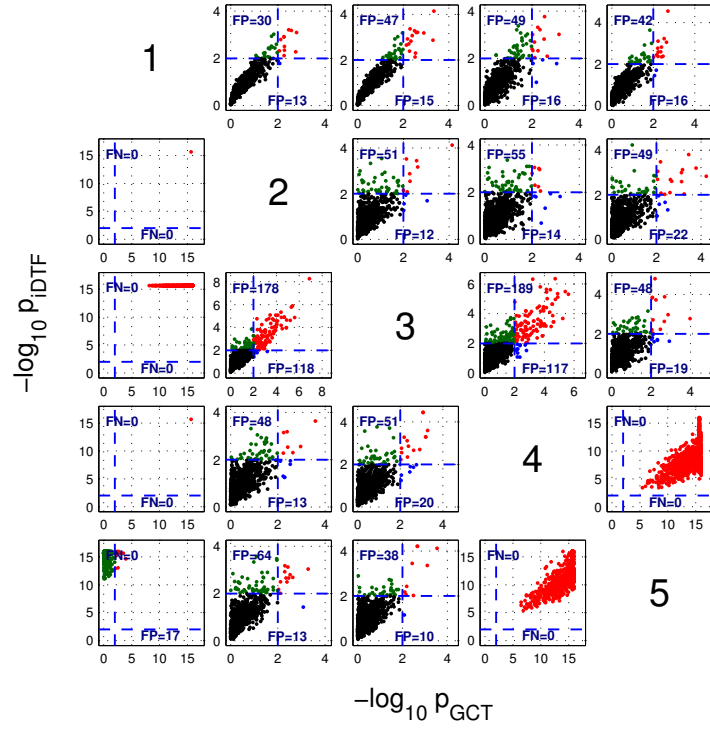
NaN	0.9523	0.9494	0.8080	0.8439
NaN	NaN	0.6686	0.5640	0.6123
NaN	0.7119	NaN	0.5867	0.6522
NaN	0.5485	0.6577	NaN	NaN
NaN	0.6651	0.7114	NaN	NaN



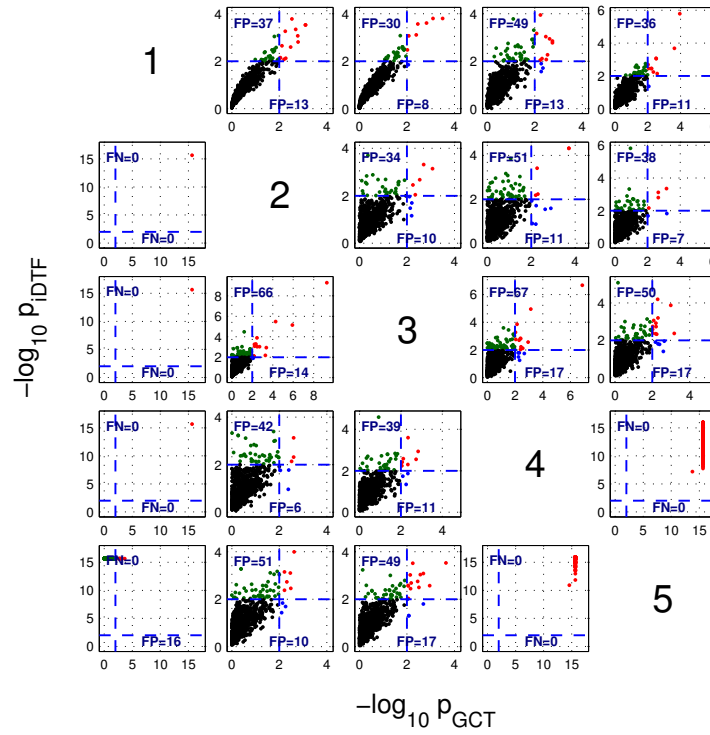
Baccala2001a ex3 ns=200: GCT x iDTF



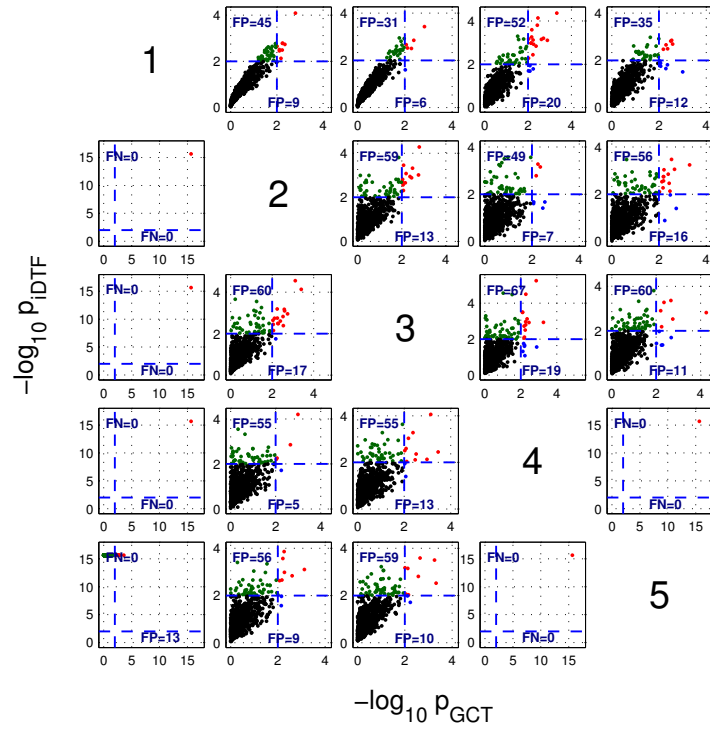
Baccala2001a ex3 ns=500: GCT x iDTF



Baccala2001a ex3 ns=1000: GCT x iDTF



Baccala2001a ex3 ns=2000: GCT x iDTF



=== Scatterplot iPDC x iDTF =====

```
str_varX = 'pValuesiPdc';
str_FNX = 'ipdc'; % GCT: ''; iPDC: 'ipdc'; SethGC: 'mv'
str_measureX = 'iPDC';
str_varY = 'pValuesiDtf';
str_FNY = 'idtf'; % see above
str_measureY = 'iDTF';
str_model = 'Baccala2001a ex3 ';
flgAdj = 0;
```

```
str_suptitle = 'iPDC x iDTF';
```

```
xscatterplot_vars;
```

```
-----
Baccala2001a ex3 : iPDC x iDTF
-----
```

```
ns = 100:
```

```
b =
```

NaN	0.8208	0.8919	0.7769	0.8126
0.2254	NaN	0.6503	0.5581	0.5952
0.1632	0.6964	NaN	0.6665	0.5401
0.2174	0.6117	0.5532	NaN	0.4792
0.0661	0.6688	0.6918	0.5622	NaN

```
rho =
```

NaN	0.9388	0.9539	0.7996	0.8617
0.4261	NaN	0.6962	0.5853	0.6538
0.2744	0.8124	NaN	0.7414	0.5663
0.4241	0.6371	0.6104	NaN	0.8230
-0.0026	0.7365	0.7464	0.9036	NaN

```
-----
ns = 200:
```

```
b =
```

NaN	0.9220	0.9579	0.8552	0.8574
0.1416	NaN	0.6617	0.5957	0.6068
-0.0244	0.7165	NaN	0.6358	0.6043
0.0478	0.6126	0.6642	NaN	0.4962
0.1522	0.7592	0.7454	0.6488	NaN

```
rho =
```

NaN	0.9627	0.9739	0.8258	0.8710
0.1603	NaN	0.6932	0.5933	0.6240
-0.0230	0.8467	NaN	0.7760	0.5635
0.0884	0.5671	0.6536	NaN	0.8048
0.0031	0.6718	0.7422	0.9045	NaN

```
-----
ns = 500:
```

```
b =
```

NaN	0.9514	0.9640	0.8742	0.8777
NaN	NaN	0.7150	0.6360	0.6094
NaN	0.7933	NaN	0.7520	0.6187
NaN	0.6253	0.6924	NaN	0.4386
-0.1348	0.7330	0.7105	0.6147	NaN

```
rho =
```

NaN	0.9793	0.9829	0.8348	0.8633
NaN	NaN	0.6626	0.5846	0.6183
NaN	0.8317	NaN	0.7521	0.5575

	NaN	0.5979	0.6228	NaN	0.5218
	-0.0983	0.7181	0.6713	0.7687	NaN

ns = 1000:

b =

	NaN	0.9722	0.9938	0.8543	0.8411
	NaN	NaN	0.7024	0.6797	0.6240
	NaN	0.7871	NaN	0.6826	0.7086
	NaN	0.6276	0.6635	NaN	NaN
	NaN	0.7569	0.7803	NaN	NaN

rho =

	NaN	0.9903	0.9881	0.8262	0.8261
	NaN	NaN	0.6750	0.5778	0.5602
	NaN	0.7515	NaN	0.6009	0.6283
	NaN	0.6114	0.6163	NaN	NaN
	NaN	0.6936	0.7028	NaN	NaN

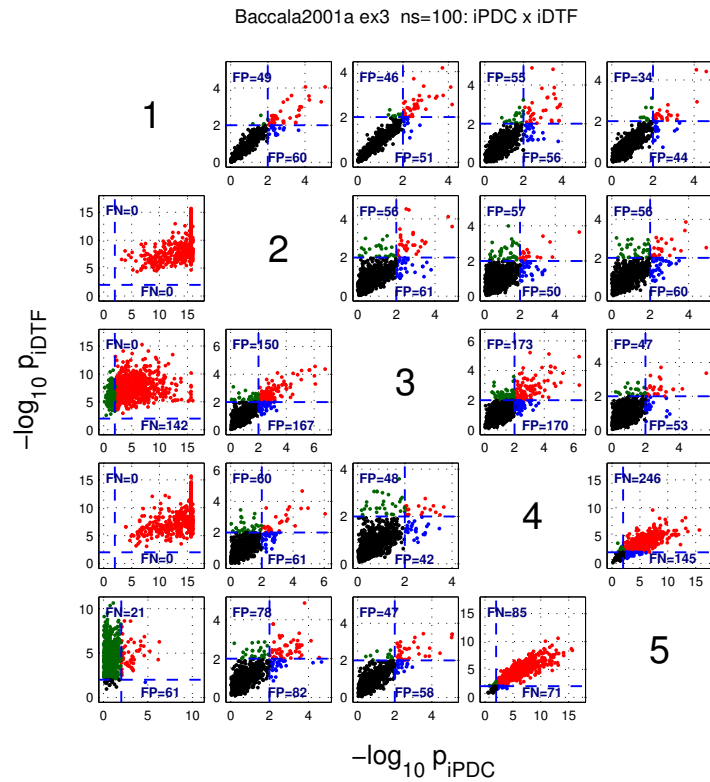
ns = 2000:

b =

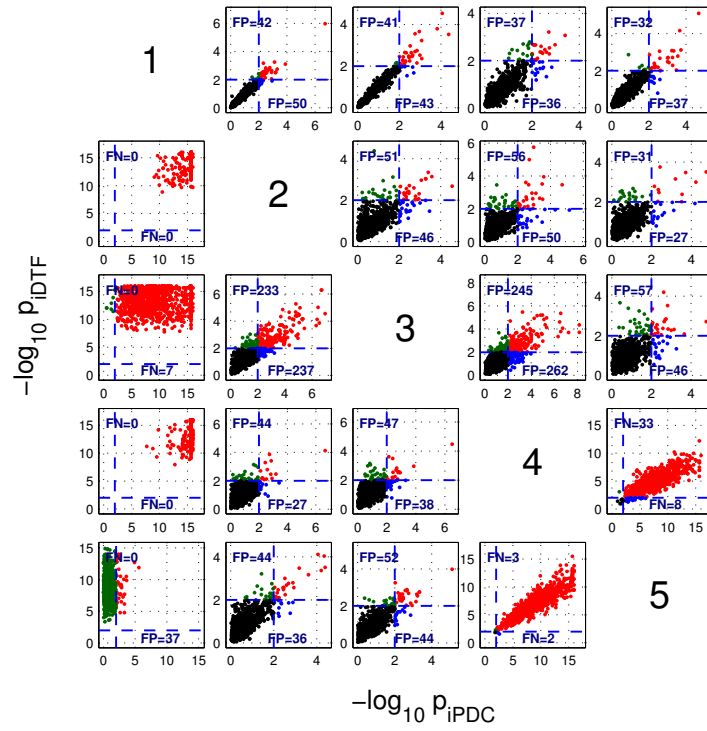
	NaN	0.9941	0.9843	0.9272	0.8573
	NaN	NaN	0.7474	0.6069	0.6358
	NaN	0.8051	NaN	0.6909	0.6786
	NaN	0.6042	0.6806	NaN	NaN
	NaN	0.7528	0.7575	NaN	NaN

rho =

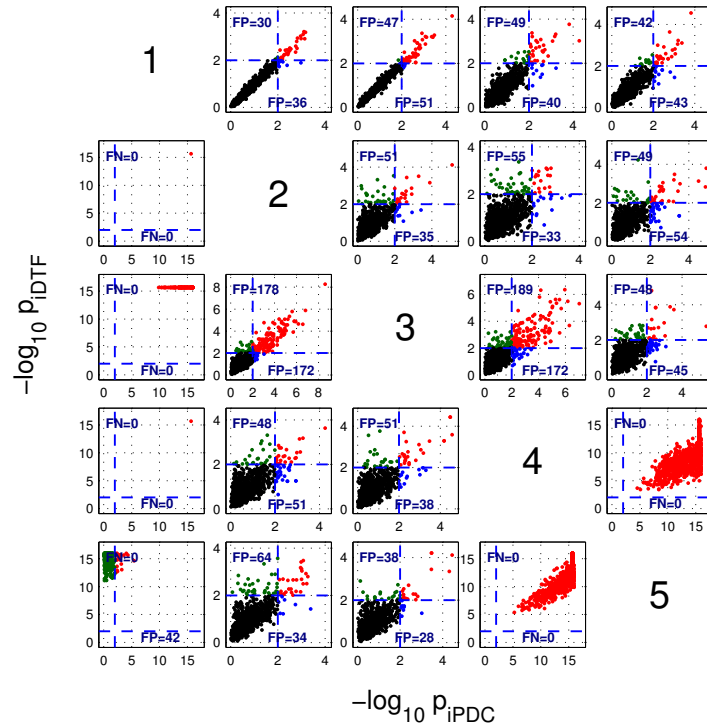
	NaN	0.9951	0.9950	0.8347	0.8519
	NaN	NaN	0.6683	0.5521	0.6252
	NaN	0.7212	NaN	0.5921	0.6474
	NaN	0.5709	0.6581	NaN	NaN
	NaN	0.6773	0.7143	NaN	NaN



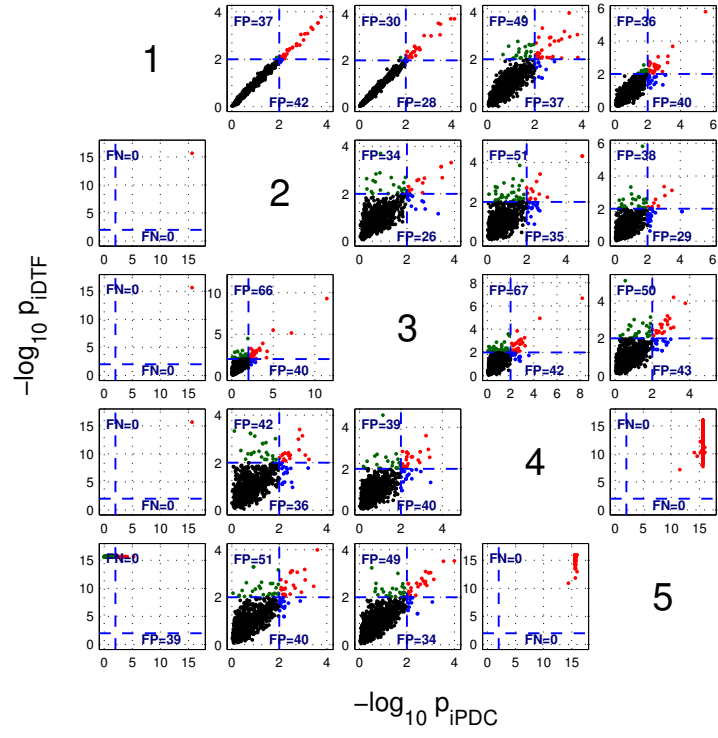
Baccala2001a ex3 ns=200: iPDC x iDTF



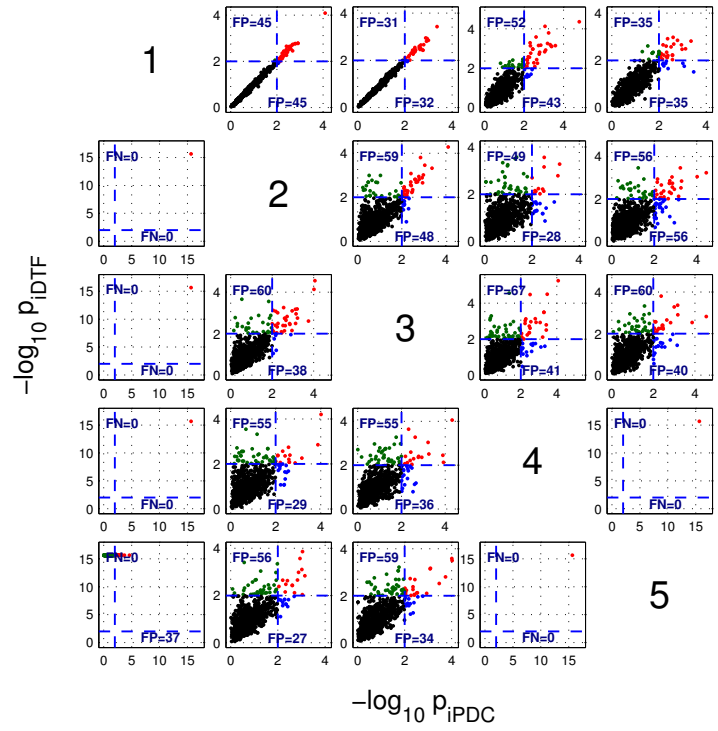
Baccala2001a ex3 ns=500: iPDC x iDTF



Baccala2001a ex3 ns=1000: iPDC x iDTF



Baccala2001a ex3 ns=2000: iPDC x iDTF



=== Scaterplot GCT x cMVGT ===

```
str_varX = 'pValuesGct';
str_FNX = '';
str_measureX = 'GCT';
str_varY = 'pValmvgc';
str_FNY = 'mv';
str_measureY = 'MVGC';
str_model = 'Baccala2001a ex3 ';
flgAdj = 1;
```

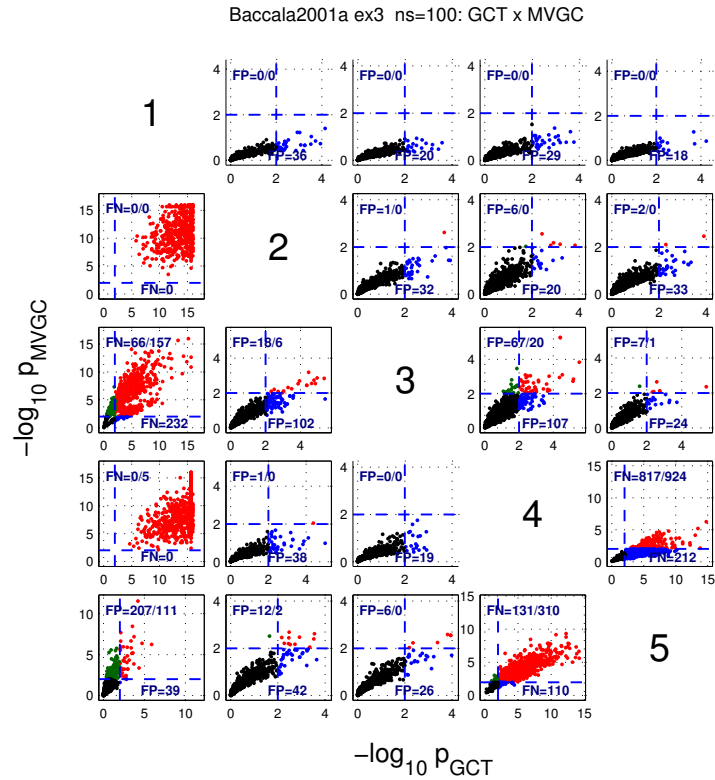
```
xscatterplot_vars
```

```
-----
Baccala2001a ex3 : GCT x MVGC
-----
ns = 100:
b =
      NaN      0.2589      0.2480      0.2976      0.2839
      0.3119      NaN      0.4694      0.6100      0.4794
      0.8132      0.5365      NaN      0.6800      0.6244
      0.3365      0.3497      0.3599      NaN      0.2762
      1.5263      0.6526      0.6095      0.4902      NaN
rho =
      NaN      0.9298      0.9322      0.8959      0.9199
      0.2508      NaN      0.9380      0.8962      0.9177
      0.7039      0.9384      NaN      0.8924      0.9212
      0.3482      0.9304      0.9364      NaN      0.8040
      0.8564      0.9463      0.9555      0.8558      NaN
-----
ns = 200:
b =
      NaN      0.4727      0.4795      0.4420      0.4326
      NaN      NaN      0.6809      0.6332      0.6266
      0.7929      0.6925      NaN      0.6241      0.7001
      NaN      0.7058      0.7092      NaN      0.5898
      1.0519      0.9019      0.9137      0.6761      NaN
rho =
      NaN      0.9695      0.9717      0.9555      0.9630
      NaN      NaN      0.9734      0.9608      0.9592
      0.9481      0.9786      NaN      0.9754      0.9781
      NaN      0.9642      0.9710      NaN      0.9674
      0.9487      0.9691      0.9756      0.9299      NaN
-----
ns = 500:
b =
      NaN      0.6372      0.6709      0.5913      0.6085
      NaN      NaN      0.8400      0.7622      0.7944
      0.6383      0.7378      NaN      0.6708      0.7927
      NaN      0.8333      0.8320      NaN      0.7014
      1.1866      0.9814      1.0068      0.7796      NaN
rho =
      NaN      0.9626      0.9659      0.9511      0.9575
      NaN      NaN      0.9619      0.9529      0.9642
      0.7112      0.9686      NaN      0.9648      0.9604
      NaN      0.9621      0.9645      NaN      0.7782
```

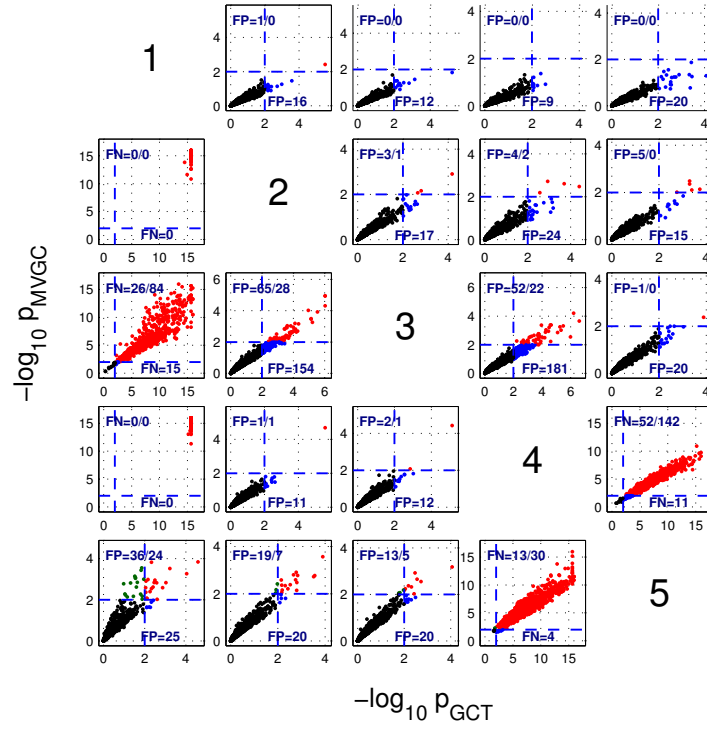
```

0.8937    0.9415    0.9455    0.6989    NaN
-----
ns = 1000:
b =
      NaN    0.8437    0.8944    0.7889    0.8744
      NaN      NaN    0.8866    0.8207    0.8645
      NaN    0.7713      NaN    0.7421    0.8021
      NaN    0.8597    0.8974      NaN      NaN
0.9107    0.8604    0.8805      NaN      NaN
rho =
      NaN    0.9953    0.9947    0.9875    0.9934
      NaN      NaN    0.9947    0.9876    0.9943
      NaN    0.9932      NaN    0.9876    0.9923
      NaN    0.9946    0.9946      NaN      NaN
0.9901    0.9925    0.9927      NaN      NaN
-----
ns = 2000:
b =
      NaN    0.8796    0.9123    0.8318    0.8907
      NaN      NaN    0.9307    0.8208    0.9019
      NaN    0.8134      NaN    0.7522    0.8207
      NaN    0.8745    0.8979      NaN      NaN
0.9392    0.8770    0.9060      NaN      NaN
rho =
      NaN    0.9959    0.9955    0.9888    0.9950
      NaN      NaN    0.9959    0.9909    0.9951
      NaN    0.9961      NaN    0.9897    0.9942
      NaN    0.9960    0.9956      NaN      NaN
0.9993    0.9960    0.9960      NaN      NaN
\end{verbatim} \color{black}

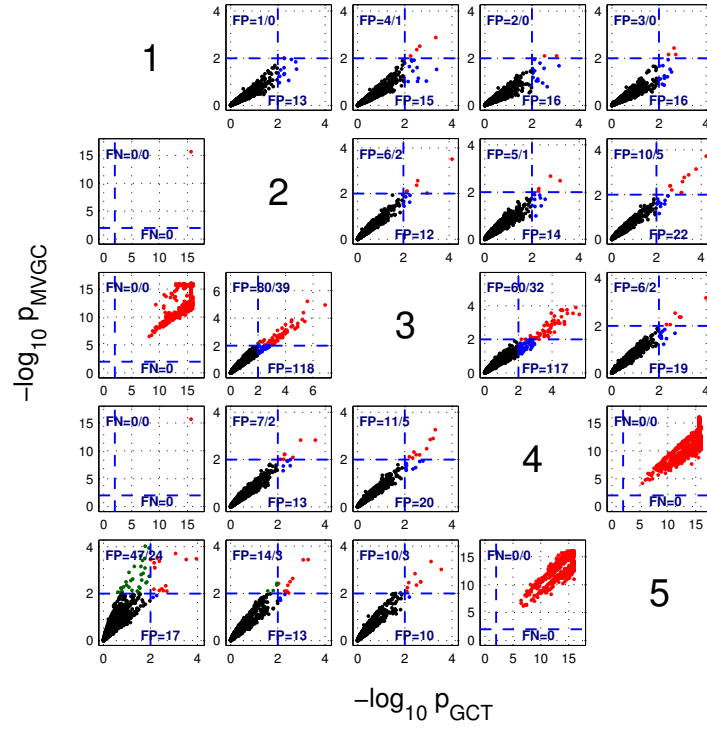
```



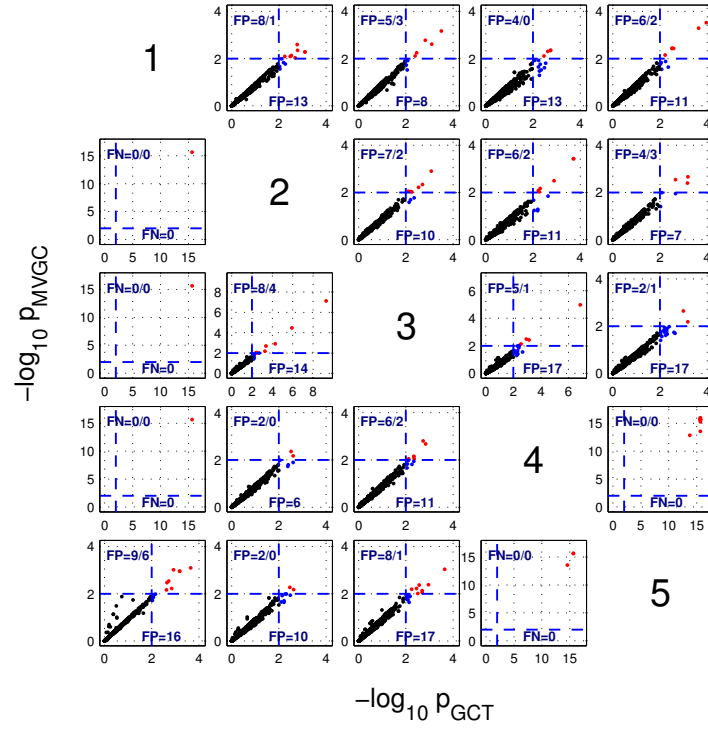
Baccala2001a ex3 ns=200: GCT x MVGC



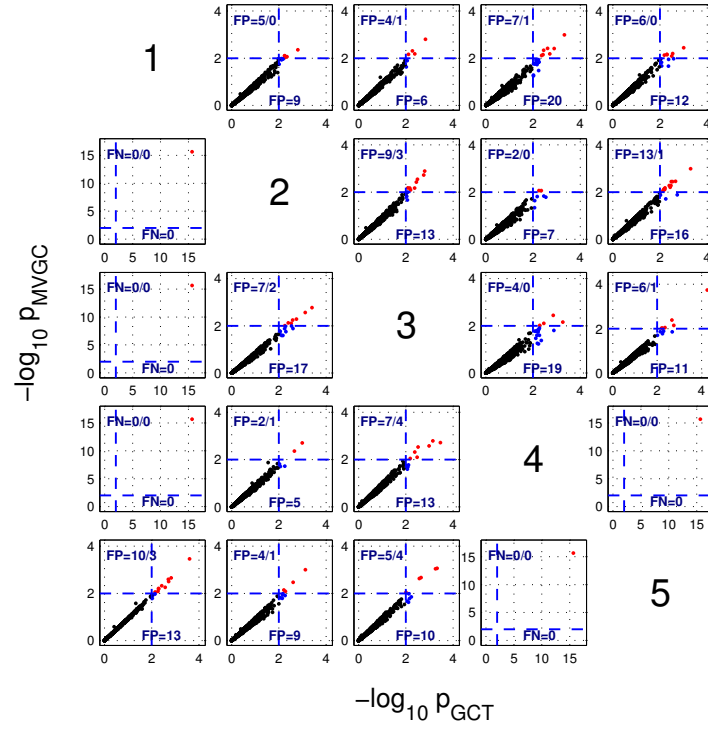
Baccala2001a ex3 ns=500: GCT x MVGC



Baccala2001a ex3 ns=1000: GCT x MVGC



Baccala2001a ex3 ns=2000: GCT x MVGC



=== Scaterplot GCT x cMVGT true order===

```
\begin{verbatim}
str_varX = 'pValuesGctT';
str_FNX = 'T';
str_measureX = 'GCT';
str_varY = 'pValmvgcT';
str_FNY = 'mvT';
str_measureY = 'MVGC';
str_model = 'Baccala2001a ex3 true order ';
flgAdj = 1;

xscatterplot_vars

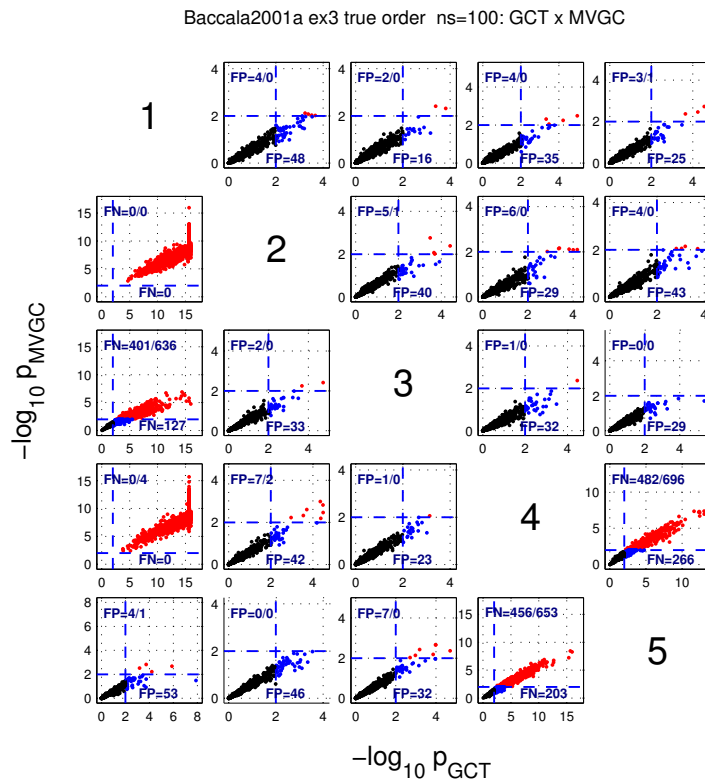
-----
Baccala2001a ex3 true order : GCT x MVGC
-----
ns = 100:
b =
      NaN      0.5777      0.5935      0.5389      0.5898
      0.4554      NaN      0.5843      0.5461      0.5843
      0.4263      0.5410      NaN      0.4961      0.5260
      0.4620      0.5902      0.6094      NaN      0.5832
      0.4997      0.5843      0.6130      0.5565      NaN
rho =
      NaN      0.9754      0.9741      0.9703      0.9760
      0.8546      NaN      0.9842      0.9743      0.9780
      0.9450      0.9813      NaN      0.9717      0.9776
      0.8716      0.9820      0.9794      NaN      0.9769
      0.9793      0.9872      0.9883      0.9745      NaN
-----
ns = 200:
b =
      NaN      0.7159      0.7466      0.6682      0.7637
      NaN      NaN      0.7524      0.6713      0.7416
      0.5456      0.6846      NaN      0.6174      0.6943
      NaN      0.7181      0.7585      NaN      0.7334
      0.7396      0.7407      0.7592      0.6946      NaN
rho =
      NaN      0.9871      0.9869      0.9807      0.9879
      NaN      NaN      0.9905      0.9842      0.9878
      0.9487      0.9896      NaN      0.9807      0.9878
      NaN      0.9889      0.9888      NaN      0.9881
      0.9926      0.9935      0.9937      0.9817      NaN
-----
ns = 500:
b =
      NaN      0.8209      0.8679      0.7857      0.8334
      NaN      NaN      0.8643      0.7785      0.8288
      0.7131      0.7712      NaN      0.6930      0.7767
      NaN      0.8204      0.8599      NaN      0.8476
      0.8631      0.8308      0.8598      0.8320      NaN
rho =
      NaN      0.9928      0.9929      0.9890      0.9929
      NaN      NaN      0.9927      0.9903      0.9925
      0.8567      0.9952      NaN      0.9871      0.9925
      NaN      0.9916      0.9928      NaN      0.9858
      0.9969      0.9951      0.9951      0.9705      NaN

```

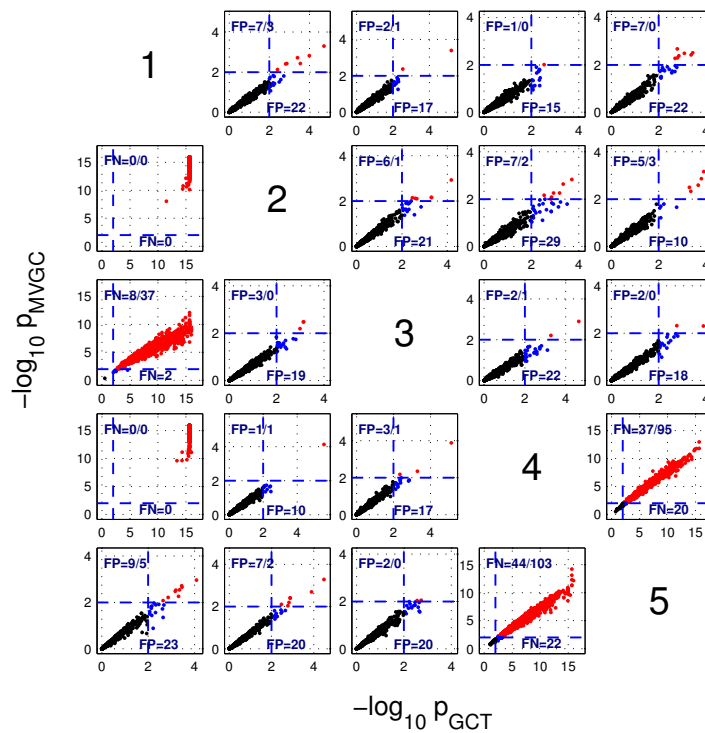
```

-----
ns = 1000:
b =
      NaN      0.8444      0.8957      0.7900      0.8748
      NaN      NaN      0.8860      0.8208      0.8632
      NaN      0.7817      NaN      0.7400      0.8020
      NaN      0.8564      0.8989      NaN      NaN
0.8961      0.8587      0.8795      NaN      NaN
rho =
      NaN      0.9957      0.9951      0.9880      0.9939
      NaN      NaN      0.9910      0.9894      0.9916
      NaN      0.9930      NaN      0.9862      0.9919
      NaN      0.9948      0.9938      NaN      NaN
0.9940      0.9958      0.9943      NaN      NaN
-----
ns = 2000:
b =
      NaN      0.8787      0.9116      0.8316      0.8900
      NaN      NaN      0.9307      0.8202      0.9020
      NaN      0.8159      NaN      0.7510      0.8177
      NaN      0.8716      0.8981      NaN      NaN
0.9395      0.8766      0.9063      NaN      NaN
rho =
      NaN      0.9940      0.9952      0.9890      0.9946
      NaN      NaN      0.9958      0.9898      0.9953
      NaN      0.9956      NaN      0.9888      0.9880
      NaN      0.9948      0.9959      NaN      NaN
0.9993      0.9949      0.9963      NaN      NaN
\end{verbatim} \color{black}

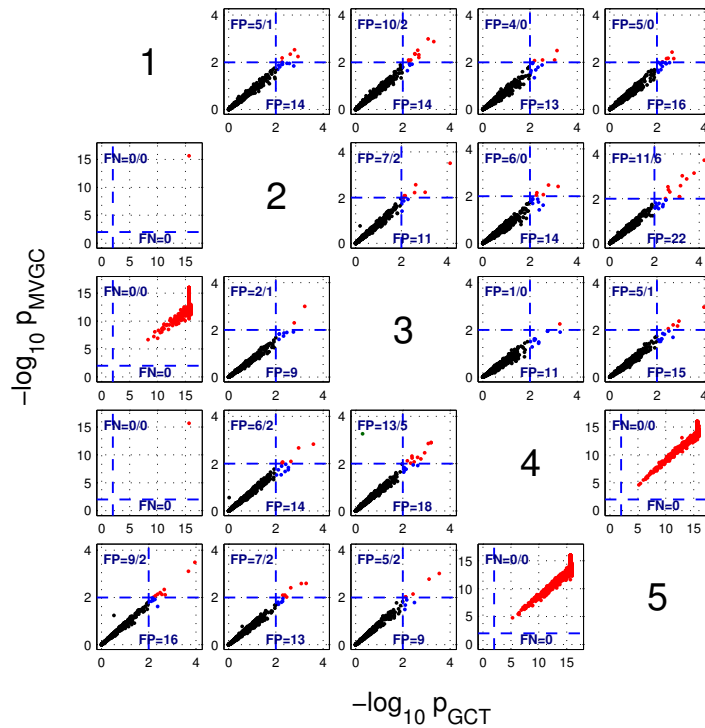
```



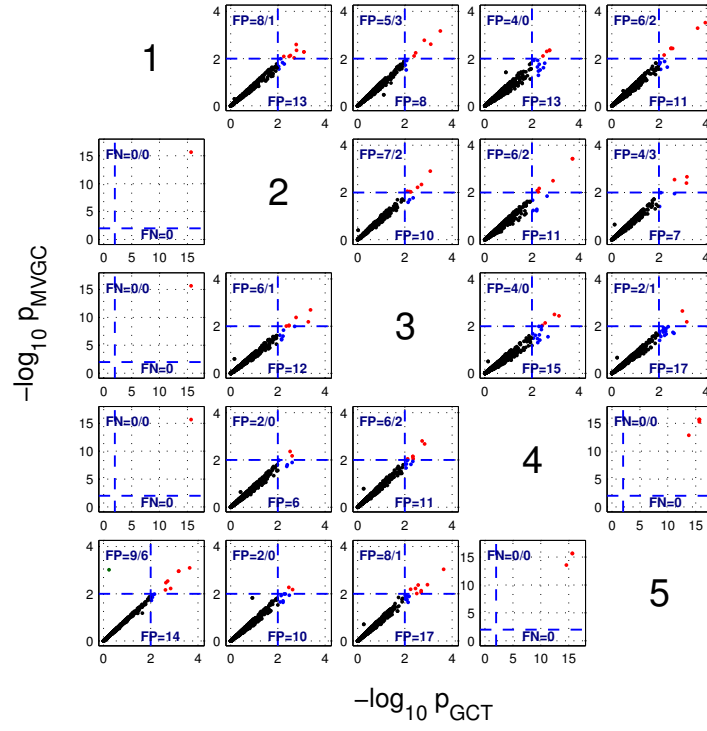
Baccala2001a ex3 true order ns=200: GCT x MVGC



Baccala2001a ex3 true order ns=500: GCT x MVGC



Baccala2001a ex3 true order ns=1000: GCT x MVGC



Baccala2001a ex3 true order ns=2000: GCT x MVGC

