phi = 5; rho = 0.5

Per−Group Sample Size n

False Discovery Rate

Selection of Intended Test

Average Power

AUC

SL
QL
AAA
EBT
TSPM
edgeR
DESeq
baySeq
phi = 5; rho = 0.9

Per−Group Sample Size n

False Discovery Rate

Selection of Intended Test

Average Power

AUC

Per−Group Sample Size n

Average Power

AUC
False Discovery Rate

Selection of Intended Test

Average Power

AUC

phi = 5; rho = 1

Per-Group Sample Size n

SL

TSPM

edgeR

DESeq

baySeq
<table>
<thead>
<tr>
<th>Per-Group Sample Size n</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>False Discovery Rate</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Selection of Intended Test</td>
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<tr>
<td>Average Power</td>
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</tr>
<tr>
<td>AUC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**phi = 1 + rchisq(df=5); rho = 0.1**
phi = 1 + rchisq(df=5); rho = 0.9

Per-Group Sample Size n

Average Power

False Discovery Rate

Selection of Intended Test

AUC

Per-Group Sample Size n

SL

QL

AAA

EBT

TSPM

dgeR

DESeq

baySeq
Selection of Intended Test

Average Power

AUC

Per−Group Sample Size n

phi = 1+rchisq(df=5); rho = 1

SL

QL

AAA

EBT

TSPM

degR

DESeq

baySeq
phi = 1 + lambda/5; rho = 0.1

Per-Group Sample Size n

Selection of Intended Test

Average Power

AUC

SL
QL
AAA
EBT
TSPM
edgeR
DESeq
baySeq
**Selection of Intended Test**

- **False Discovery Rate**
  - φ = 1 + λ/5; ρ = 0.2
  - Per-Group Sample Size n
  - Average Power
  - AUC

- **Per-Group Sample Size n**
  - φ = 1 + λ/5; ρ = 0.2

**AUC**

- SL
- QL
- AAA
- EBT
- TSPM
- edgeR
- DESeq
- baySeq
phi = 1 + \lambda / 5; \rho = 0.5

Per-Group Sample Size n

False Discovery Rate

Selection of Intended Test

Average Power

AUC

Per-Group Sample Size n

phi = 1 + \lambda / 5; \rho = 0.5

SL, QL, AAA, EBT, TSPM, edgeR, DESeq, baySeq
\( \phi = 1 + \lambda/5; \rho = 0.8 \)

**False Discovery Rate**

**Selection of Intended Test**

**Average Power**

**AUC**