

Config file

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4  "reconnect": true,
5  "verbose": true,
6  "replaceStrings": [
7    ["$BASE_FOLDER$", "data/Projects/Automatic_testing/Data/example_folder"],
8    ["$STUDY$", "GSE2639_HUVEC_TNF"],
9    ["$LIMMA_FILES$", "TNF vs. Control"]
10 ]
11 "loadTasks": [ "ex001_tnf_stimulation_full_lib.json" ],
12 "tasks": [
13   {
14     "fromLib": "createExampleFolder"
15   },
16   {
17     "fromLib": "importCelFiles"
18   },
19   {
20     "fromLib": "wait10s"
21   },
22   {
23     "fromLib": "createStudyFolder"
24   },
25   {
26     "fromLib": "normalizeAffy"
27   },
28   {
29     "fromLib": "makePlots"
30   },
31   {
32     "fromLib": "makePCA"
33   },
34   {
35     "fromLib": "runLimma"
36   },
37   {
38     "fromLib": "convertLimmaGenes"
39   },
40   {
41     "fromLib": "convertLimmaTp"
42   }
43 ]
44 }
45
46
47
48
49
50
51
52
53 }
```

Task library

```
1 {
2   "createExampleFolder": {
3     "do": "createFolder",
4     "path": "data/Projects/Automatic_testing/Data",
5     "name": "example_folder"
6   },
7
8   "importCelFiles": {
9     "do": "imPort",
10    "file": "cola/automat/GSE2639_HUVEC/GSE2639_HUVEC_TNF_CEL_files.zip",
11    "path": "$BASE_FOLDER$",
12    "importer": "ZIP-archive (*.zip)",
13    "wait": true,
14    "progress": true,
15    "parameters": [{ "name": "cleanupFolder", "value": false },
16                  { "name": "preserveExtension", "value": false },
17                  { "name": "preserveArchiveStructure", "value": true },
18                  { "name": "importFormat", "value": "Affymetrix CEL file (*.cel)"}]
19  },
20
21  "wait10s": {
22    "do": "external",
23    "showOutput": true,
24    "bin": "sh",
25    "params": ["gxp_wait.sh", "10"]
26  },
27
28  "createStudyFolder": {
29    "do": "createFolder",
30    "path": "$BASE_FOLDER$",
31    "name": "$STUDY$"
32  },
33
34  "normalizeAffy": {
35    "do": "analyze",
36    "method": "Affymetrix normalization",
37    "wait": true,
38    "progress": true,
39    "parameters": [
40      {
41        "name": "celFiles",
42        "value": [
43          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50777.CEL",
44          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50778.CEL",
45          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50779.CEL",
46          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50780.CEL",
47          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50781.CEL",
48          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50782.CEL",
49          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50783.CEL",
50          "$BASE_FOLDER$/GSE2639_HUVEC_TNF_CEL_files/GSM50784.CEL"
51        ]
52      },
53      { "name": "method", "value": "RMA" },
54      { "name": "bgCorrection", "value": "RMA" },
55      { "name": "normMethod", "value": "quantiles" },
56      { "name": "pmCorrection", "value": "pmonly" },
57      { "name": "summarization", "value": "medianpolish" },
58      { "name": "cdf", "value": "" },
59      { "name": "outputLogarithmBase", "value": "log2" },
60      { "name": "outputPath", "value": "$BASE_FOLDER$/STUDY$/Normalized (RMA)" }
61    ]
62  },
63
64  "makePlots": {
65    "do": "analyze",
66    "method": "Normalization quality plots",
67    "wait": true,
68    "progress": true,
69    "parameters": [
70      {
71        "name": "inputTablePath",
72        "value": "$BASE_FOLDER$/STUDY$/Normalized (RMA)"
73      },
74      { "name": "inputLogarithmBase", "value": "log2" },
75      { "name": "outputFolderPath", "value": "$BASE_FOLDER$/STUDY$/Normalization_QC_plots" }
76    ]
77  },
78
79  "makePCA": {
80    "do": "analyze",
81    "method": "PCA",
82    "wait": true,
83    "progress": true,
84    "parameters": [
85      {
86        "name": "inputTablePath",
87        "value": "$BASE_FOLDER$/STUDY$/Normalized (RMA)"
88      },
89      {
90        "name": "firstName",
91        "value": "Control"
92      },
93      {
94        "name": "firstColumns",
95        "value": ["GSM50777.CEL", "GSM50778.CEL", "GSM50779.CEL", "GSM50780.CEL"]
96      },
97      {
98        "name": "secondName",
99        "value": "TNF"
100      },
101      {
102        "name": "secondColumns",
103        "value": ["GSM50781.CEL", "GSM50782.CEL", "GSM50783.CEL", "GSM50784.CEL"]
104      },
105      { "name": "outputFolderPath", "value": "$BASE_FOLDER$/STUDY$/PCA" }
106    ]
107  },
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109  "runLimma": {
110    "do": "analyze",
111    "method": "Limma",
112    "wait": true,
113    "progress": true,
114    "parameters": [
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116        "name": "inputTablePath",
117        "value": "$BASE_FOLDER$/STUDY$/Normalized (RMA)"
118      },
119      {
120        "name": "inputLogarithmBase",
121        "value": "log2"
122      },
123      {
124        "name": "firstName",
125        "value": "TNF"
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127      {
128        "name": "firstColumns",
129        "value": ["GSM50781.CEL", "GSM50782.CEL", "GSM50783.CEL", "GSM50784.CEL"]
130      },
131      {
132        "name": "secondName",
133        "value": "Control"
134      },
135      {
136        "name": "secondColumns",
137        "value": ["GSM50777.CEL", "GSM50778.CEL", "GSM50779.CEL", "GSM50780.CEL"]
138      },
139      {
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141        "value": "$BASE_FOLDER$/STUDY$/Limma"
142      }
143    ]
144  },
145
146  "convertLimmaGenes": {
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148    "method": "Convert table",
149    "wait": true,
150    "progress": true,
151    "parameters": [
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153        "name": "sourceTable",
154        "value": "$BASE_FOLDER$/STUDY$/Limma/$LIMMA_FILE$"
155      },
156      {
157        "name": "species",
158        "value": "$SPECIES$"
159      },
160      {
161        "name": "sourceType",
162        "value": "Probes: Affymetrix"
163      },
164      {
165        "name": "targetType",
166        "value": "Genes: Ensembl"
167      },
168      {
169        "name": "outputTable",
170        "value": "$BASE_FOLDER$/STUDY$/Limma/$LIMMA_FILE$ Genes Ensembl"
171      }
172    ]
173  },
174
175  "convertLimmaTp": {
176    "do": "analyze",
177    "method": "Convert table",
178    "wait": true,
179    "progress": true,
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182        "name": "sourceTable",
183        "value": "$BASE_FOLDER$/STUDY$/Limma/$LIMMA_FILE$"
184      },
185      {
186        "name": "species",
187        "value": "$SPECIES$"
188      },
189      {
190        "name": "sourceType",
191        "value": "Probes: Affymetrix"
192      },
193      {
194        "name": "targetType",
195        "value": "Proteins: Transpath"
196      },
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198        "name": "outputTable",
199        "value": "$BASE_FOLDER$/STUDY$/Limma/$LIMMA_FILE$ Proteins Transpath"
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201    ]
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204  "convertLimmaTp": {
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223        "name": "targetType",
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227        "name": "outputTable",
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235    "method": "Convert table",
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252        "name": "targetType",
253        "value": "Proteins: Transpath"
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256        "name": "outputTable",
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262  "convertLimmaTp": {
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264    "method": "Convert table",
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277        "name": "sourceType",
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306        "name": "sourceType",
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310        "name": "targetType",
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320  "convertLimmaTp": {
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322    "method": "Convert table",
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331        "name": "species",
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335        "name": "sourceType",
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338      {
339        "name": "targetType",
340        "value": "Proteins: Transpath"
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349  "convertLimmaTp": {
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351    "method": "Convert table",
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364        "name": "sourceType",
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368        "name": "targetType",
369        "value": "Proteins: Transpath"
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372        "name": "outputTable",
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426        "name": "targetType",
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480        "name": "sourceType",
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494  "convertLimmaTp": {
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592        "name": "species",
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596        "name": "sourceType",
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599      {
600        "name": "targetType",
601        "value": "Proteins: Transpath"
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607    ]
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610  "convertLimmaTp": {
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639  "convertLimmaTp": {
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665    ]
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668  "convertLimmaTp": {
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712        "name": "sourceType",
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726  "convertLimmaTp": {
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730    "progress": true,
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738        "value": "$SPECIES$"
739      },
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745        "name": "targetType",
746        "value": "Proteins: Transpath"
747      },
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749        "name": "outputTable",
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751      }
752    ]
753  },
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755  "convertLimmaTp": {
756    "do": "analyze",
757    "method": "Convert table",
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759    "progress": true,
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