

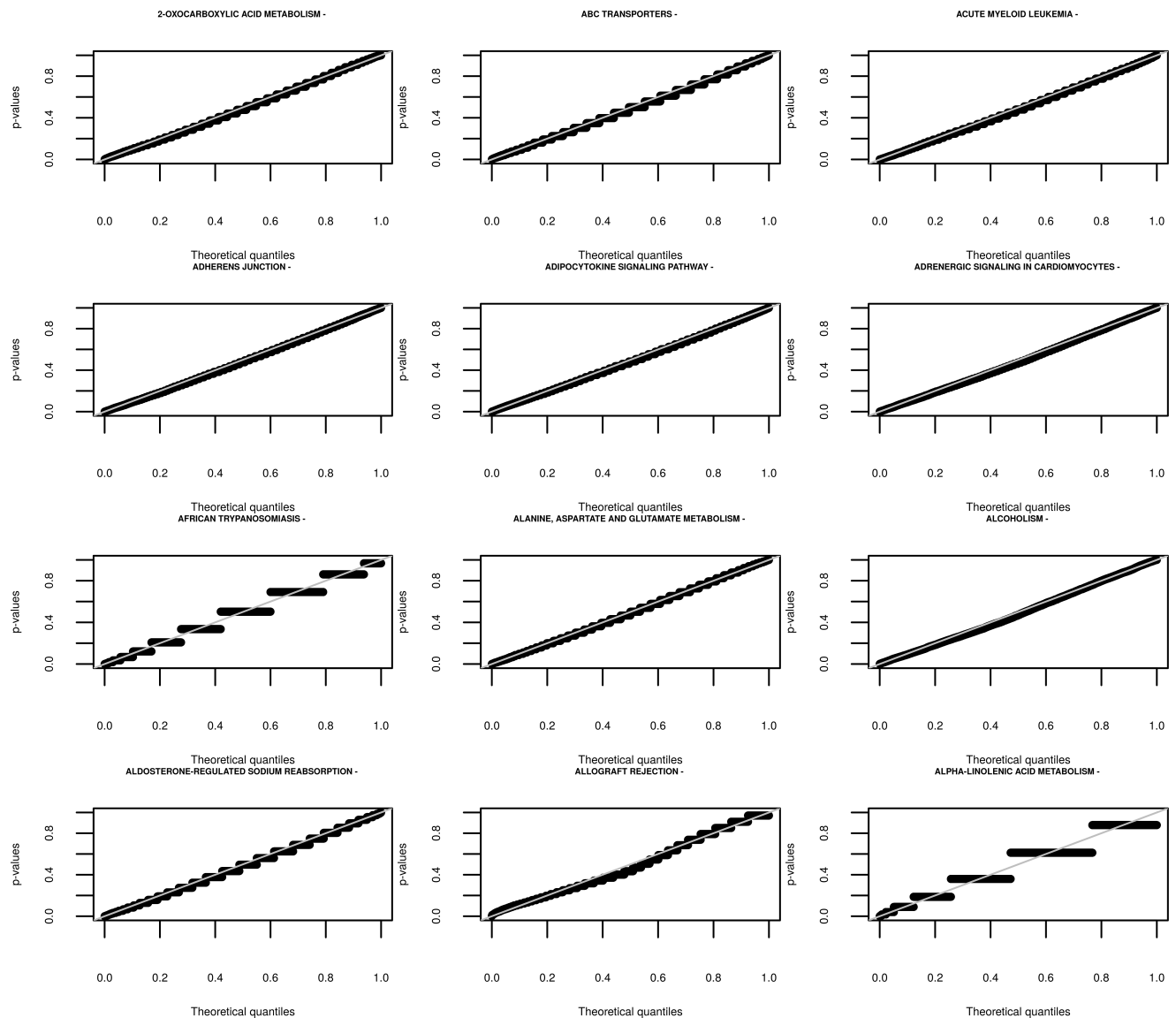
# Pathway-specific model estimation for improved pathway annotation by network crosstalk

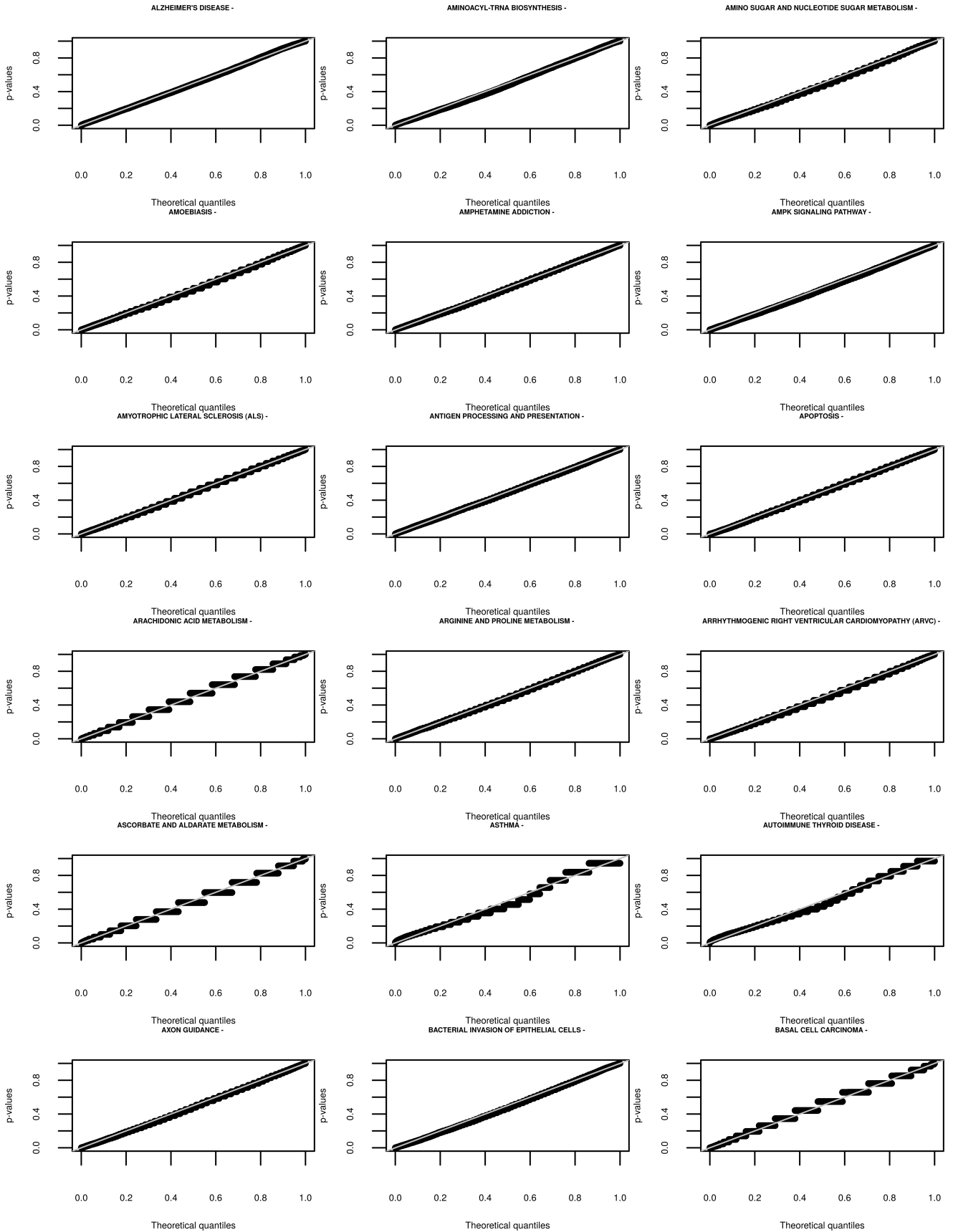
*Miguel Castresana-Aguirre, Erik L.L. Sonnhammer\**

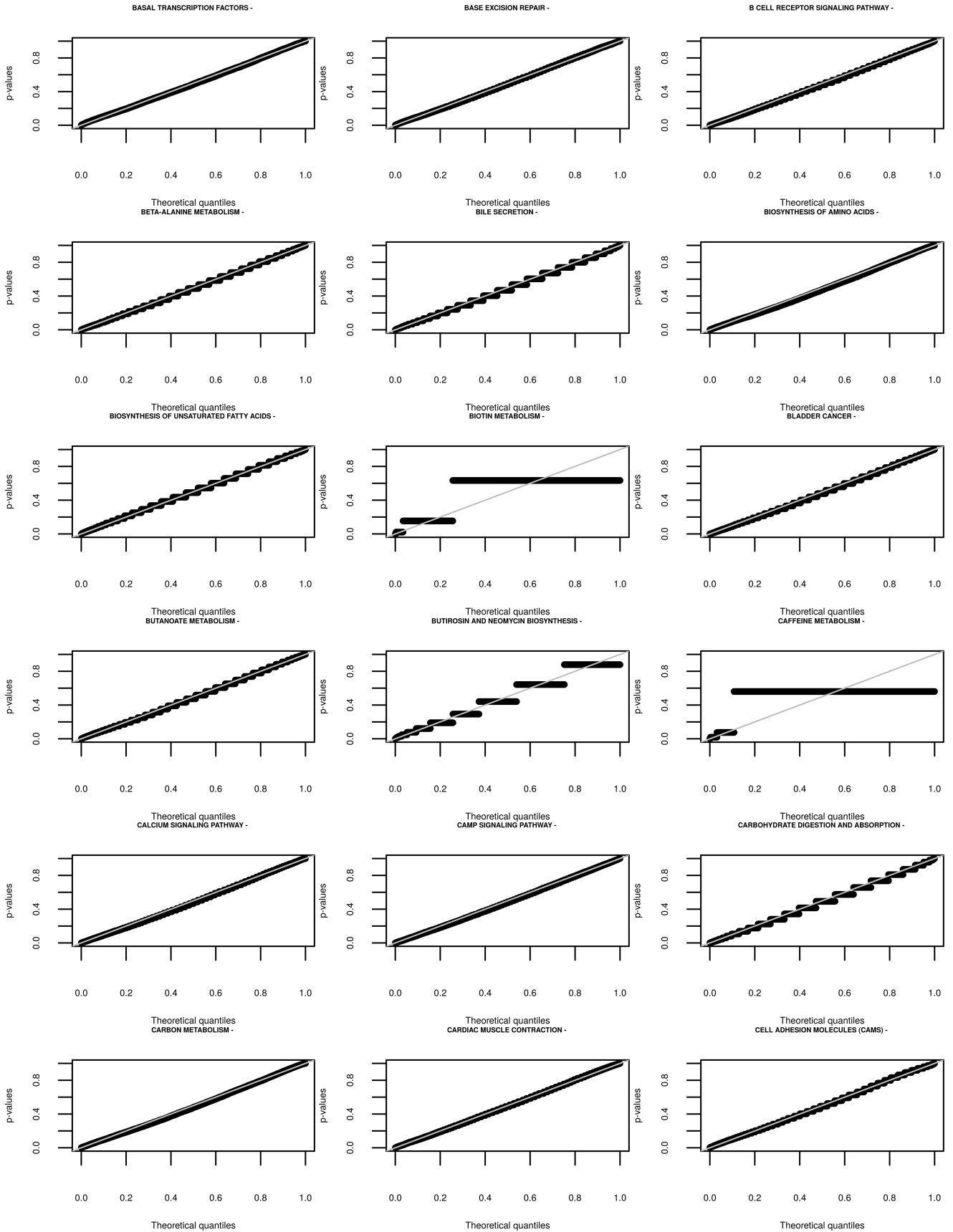
Department of Biochemistry and Biophysics, Stockholm University, Science for Life Laboratory, Box 1031, 17121 Solna, Sweden,

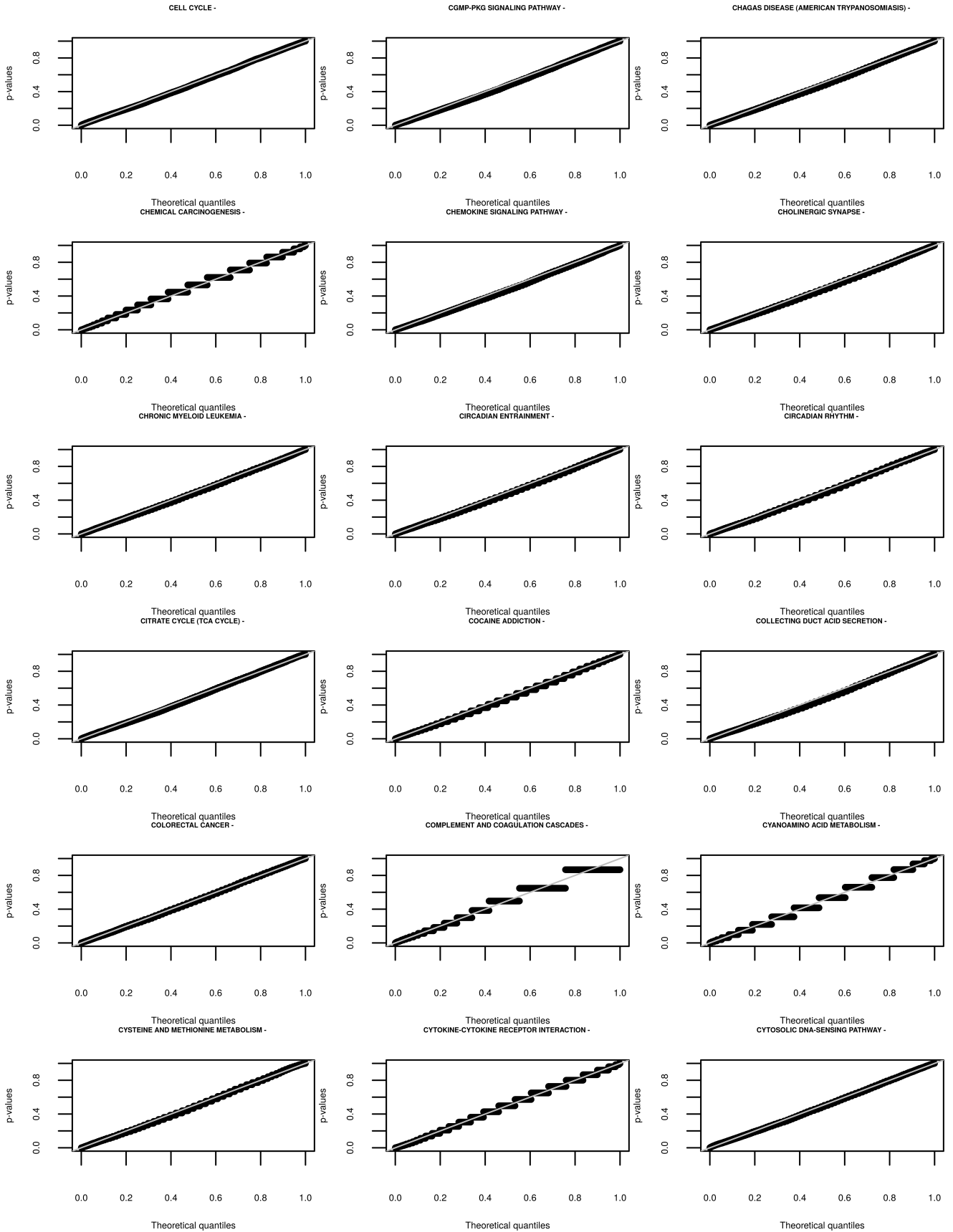
\*To whom correspondence should be addressed: erik.sonnhammer@dbb.su.se

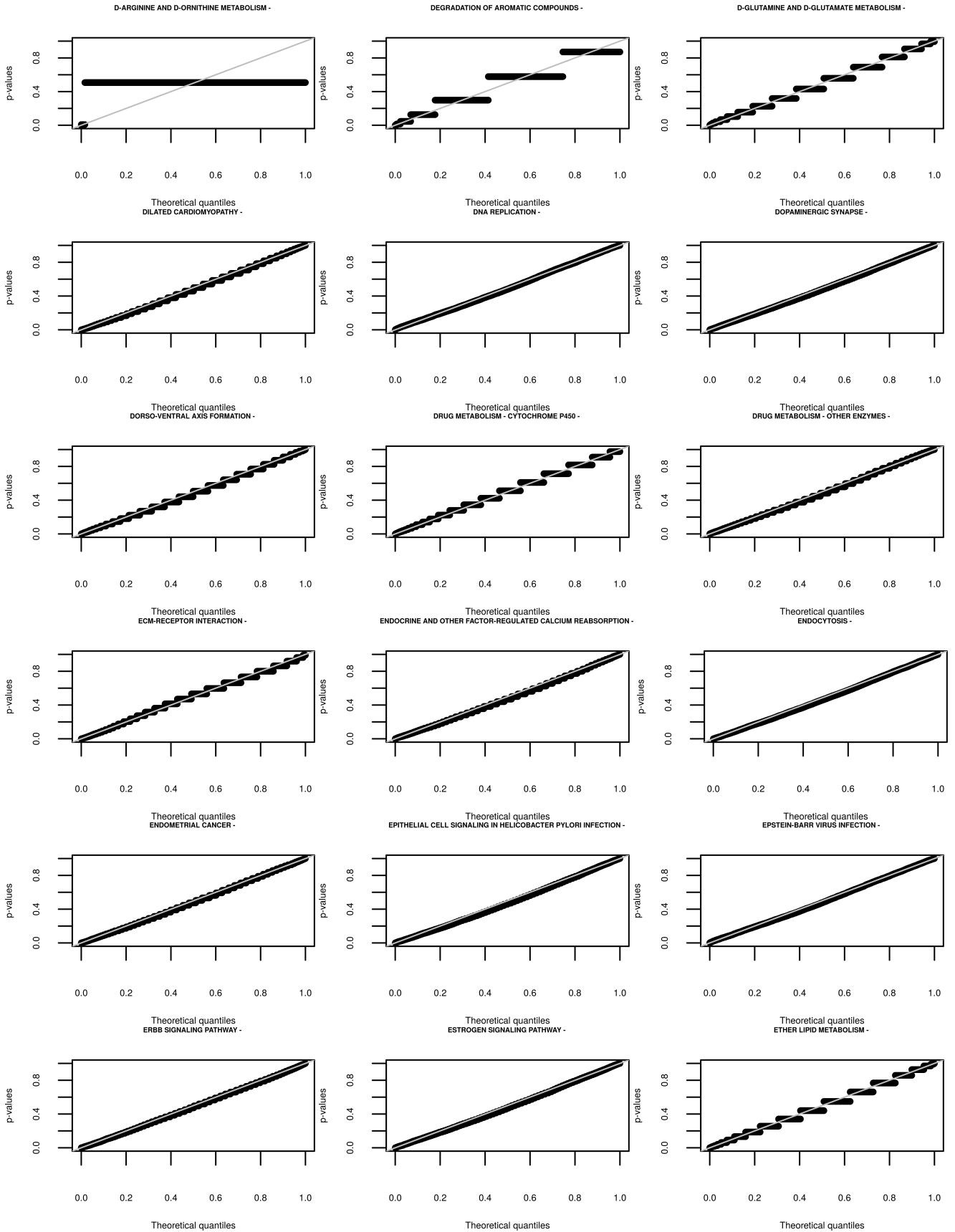
**Supplementary Figure 1:** 10000 random gene sets of size 110 are run against KEGG pathways. P-value uniformity test of ANUBIX. Reported p-values are plotted against theoretical quantile (rank). Software: R version 3.4.3 <https://www.r-project.org/>.

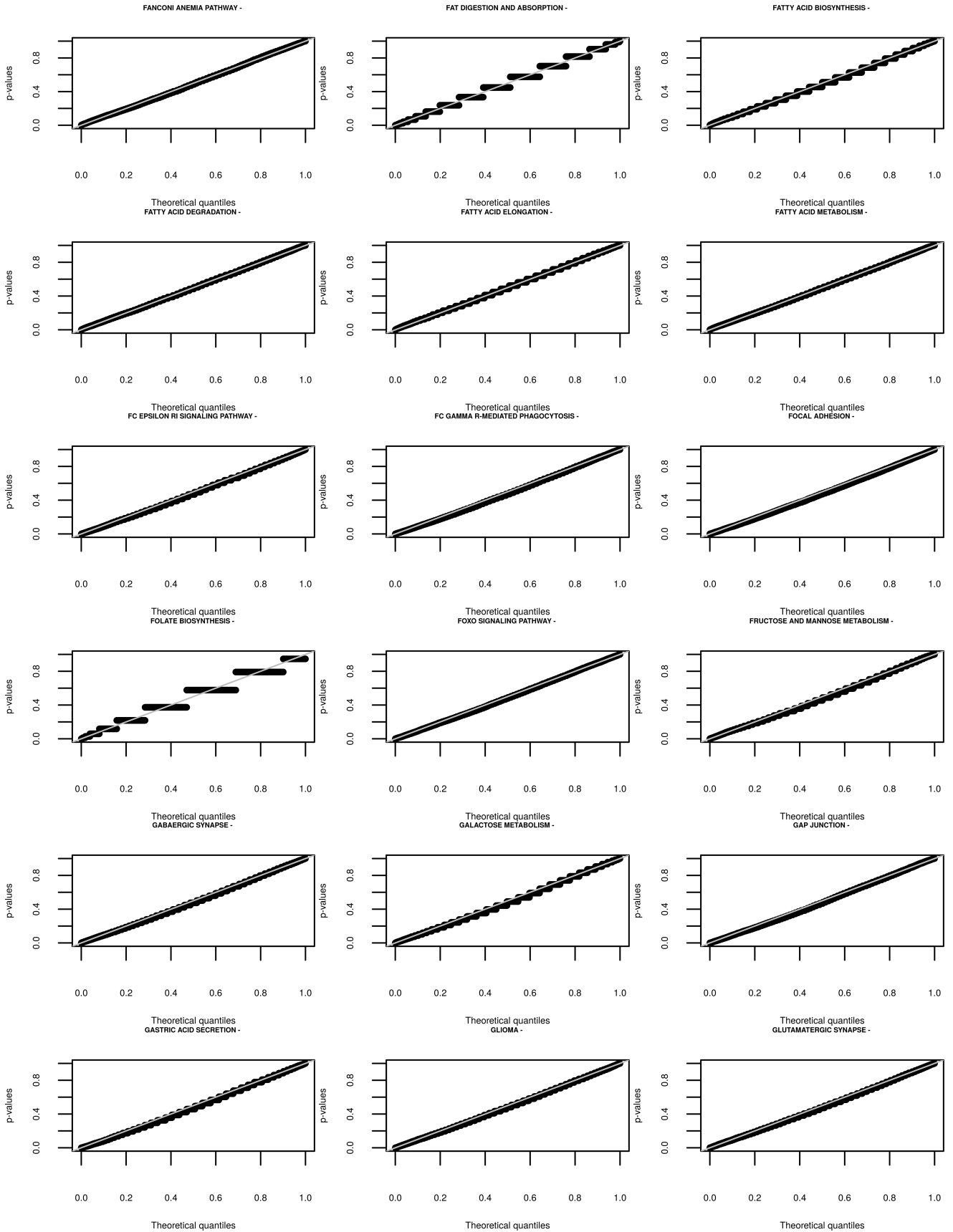


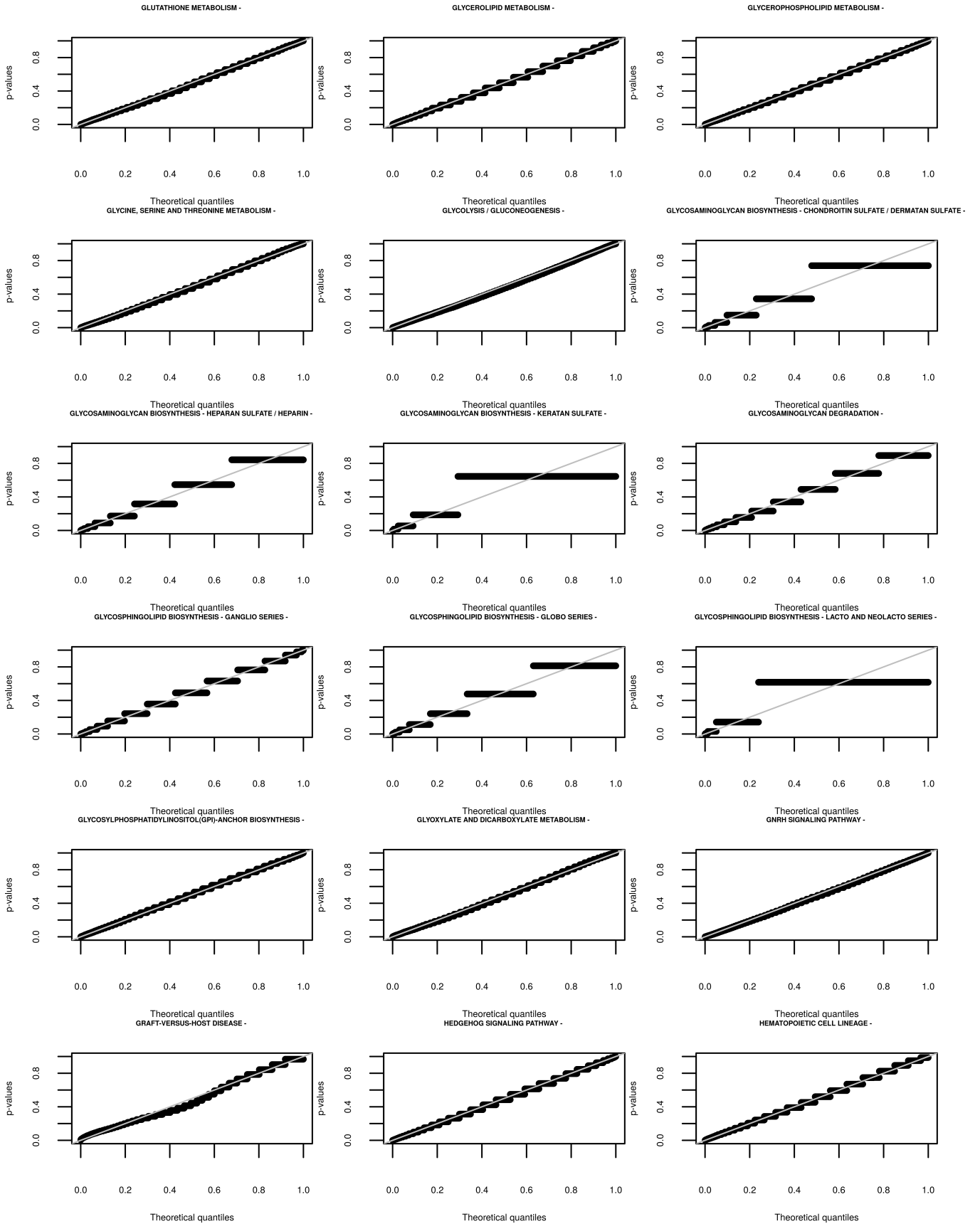


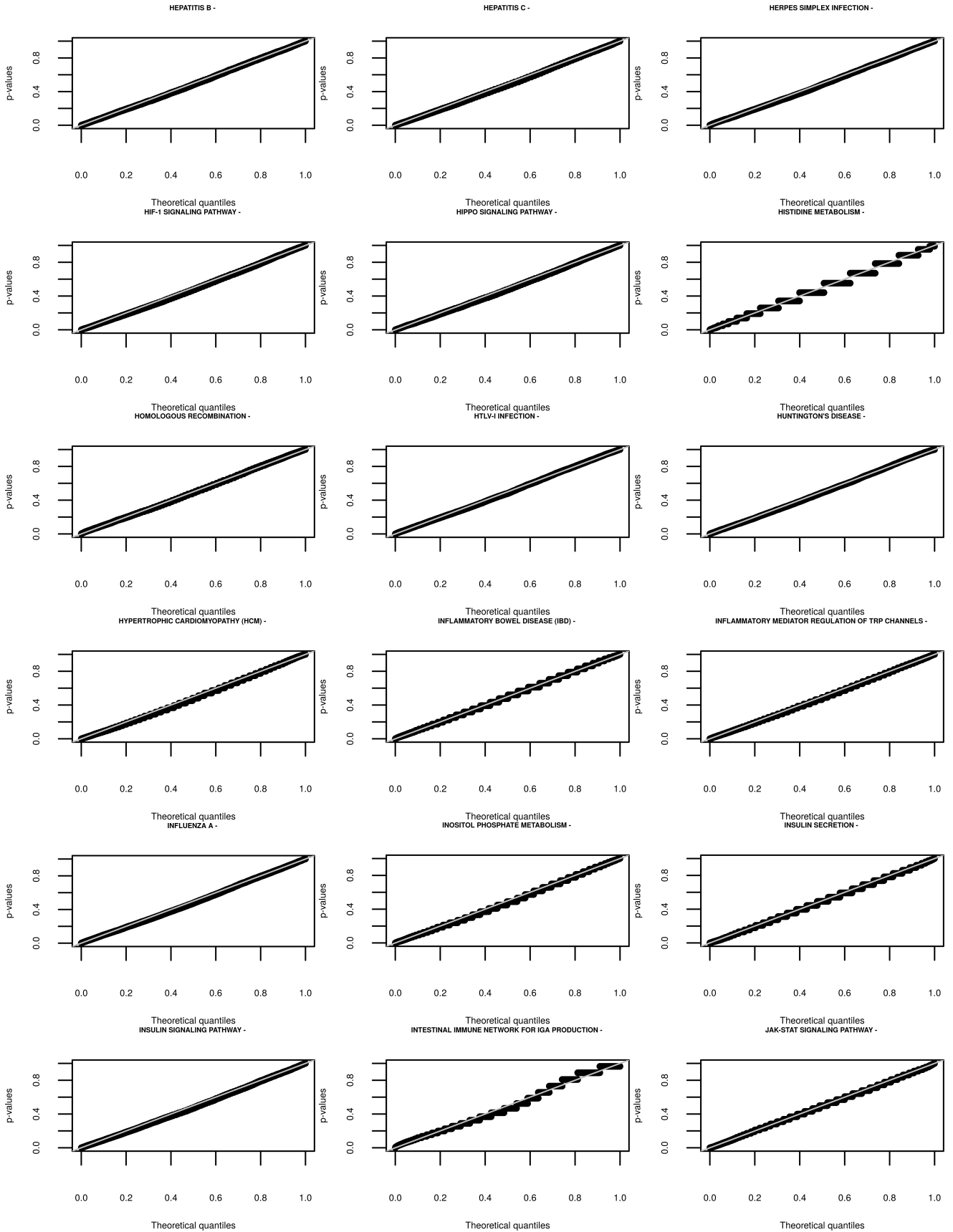




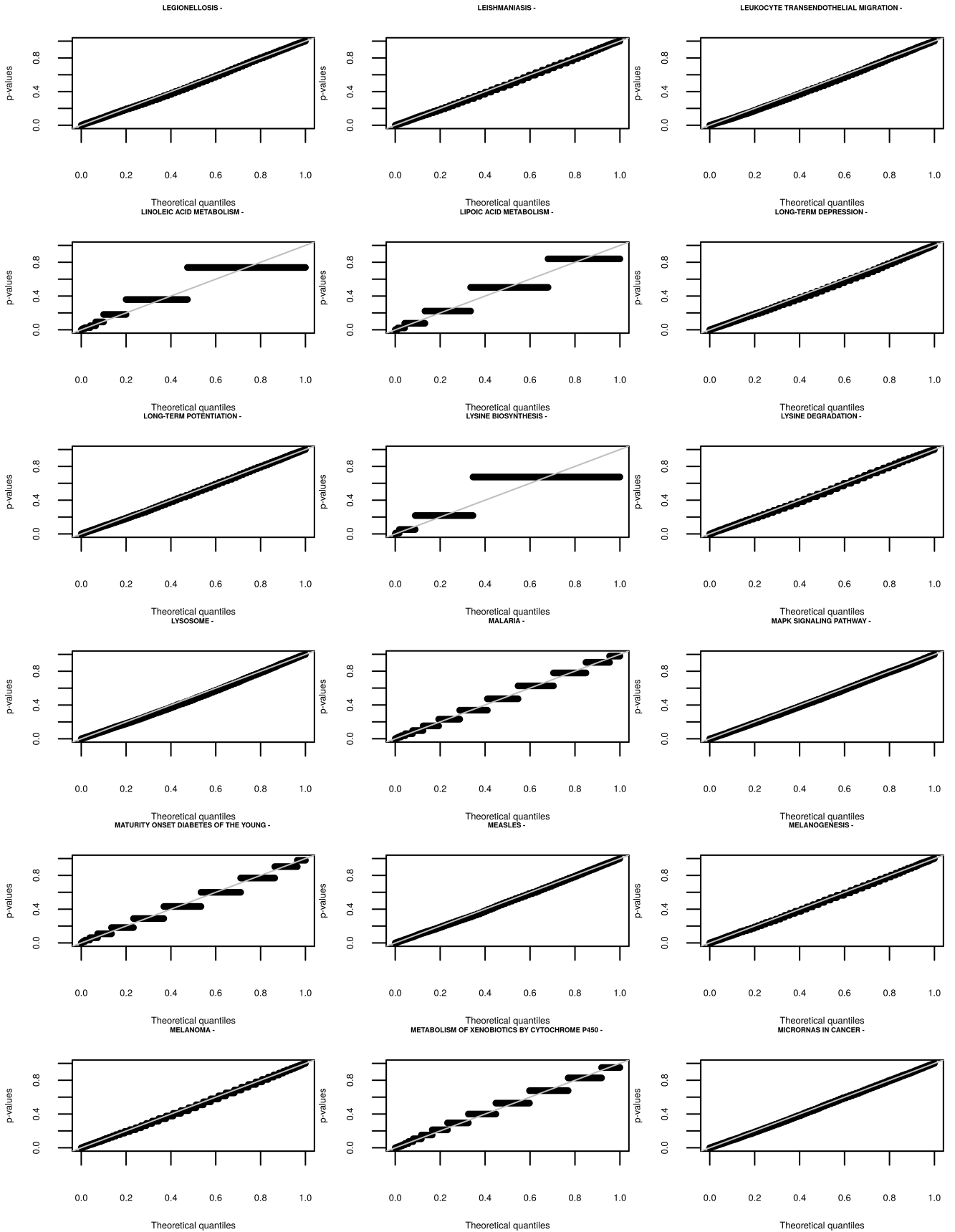


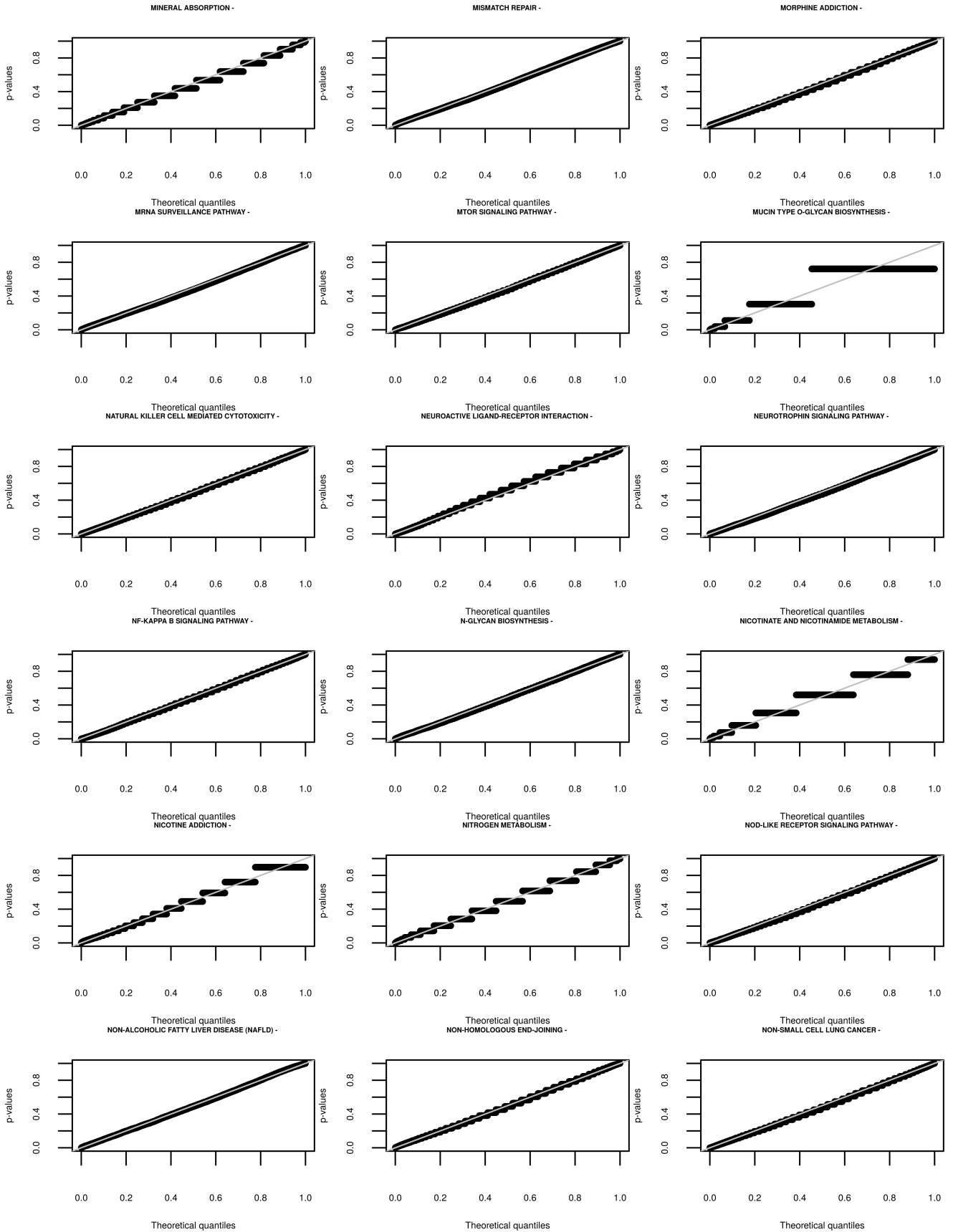


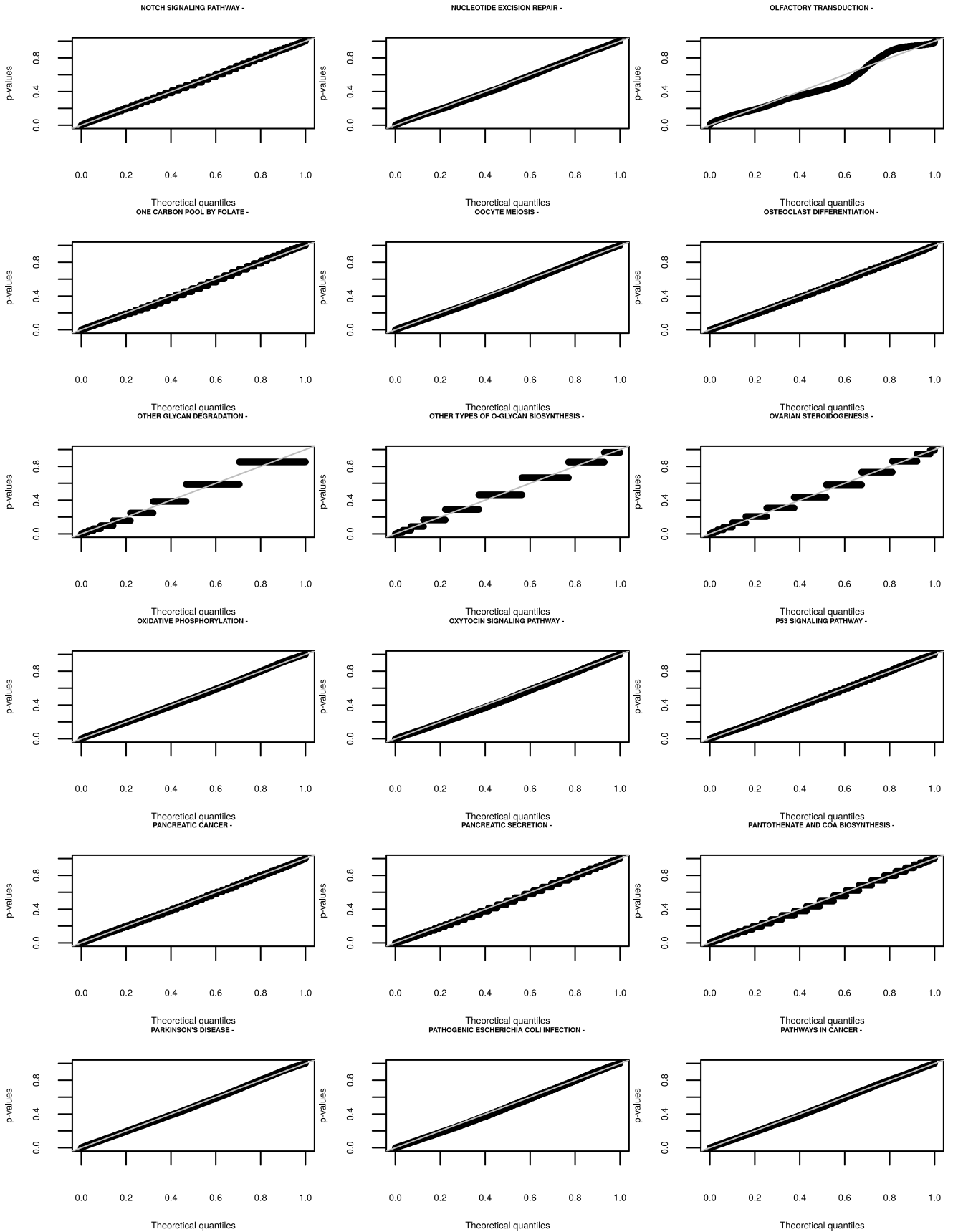


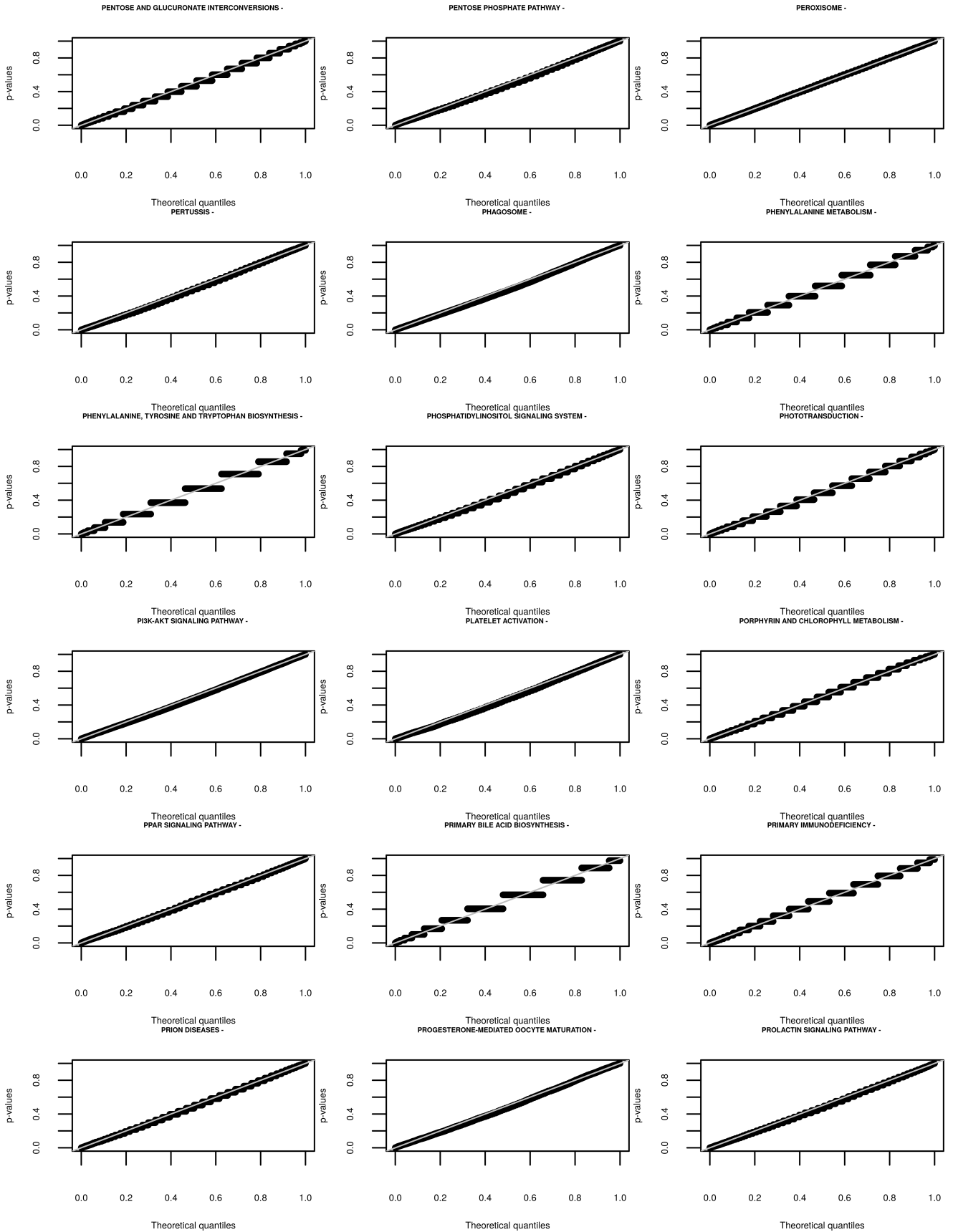


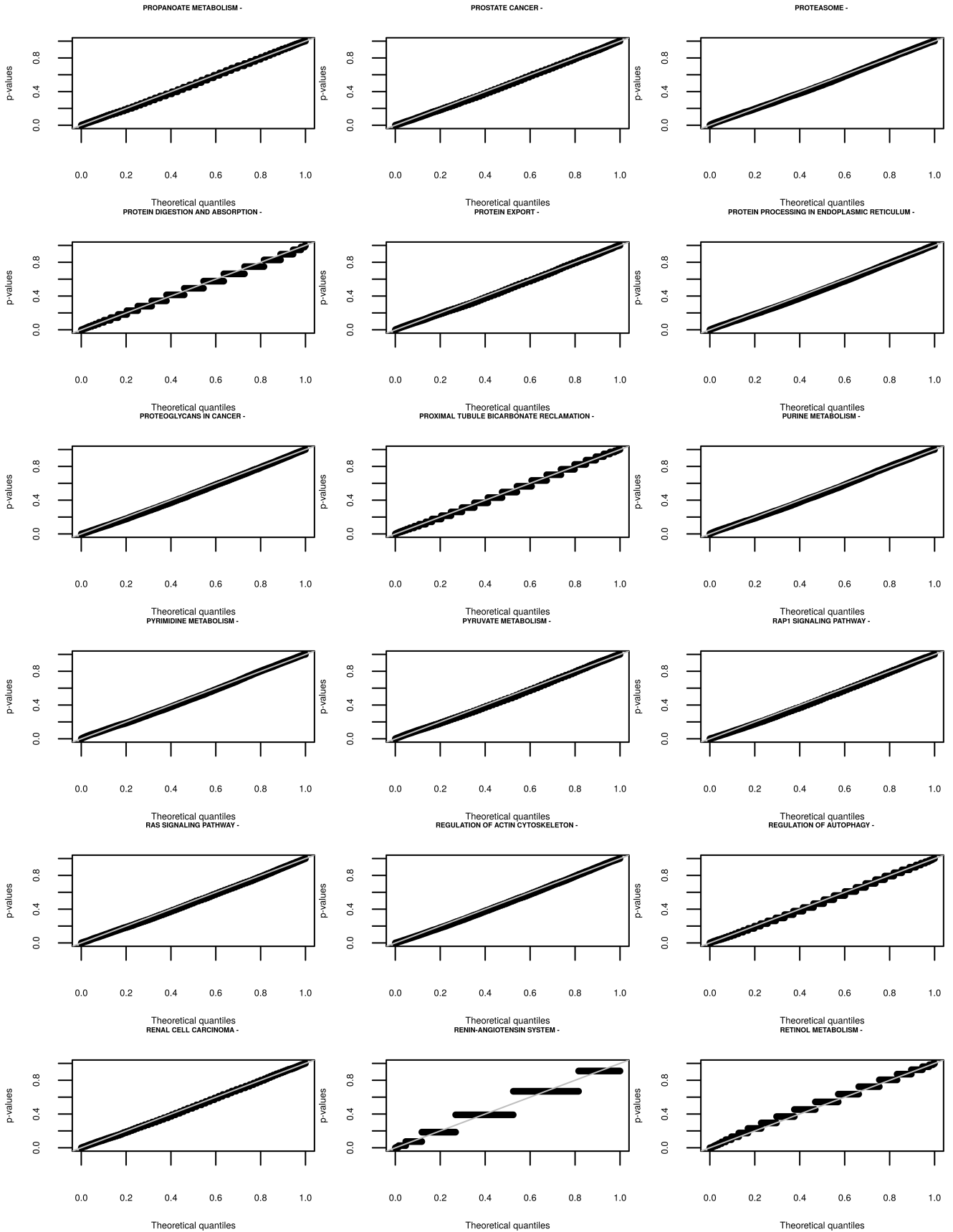


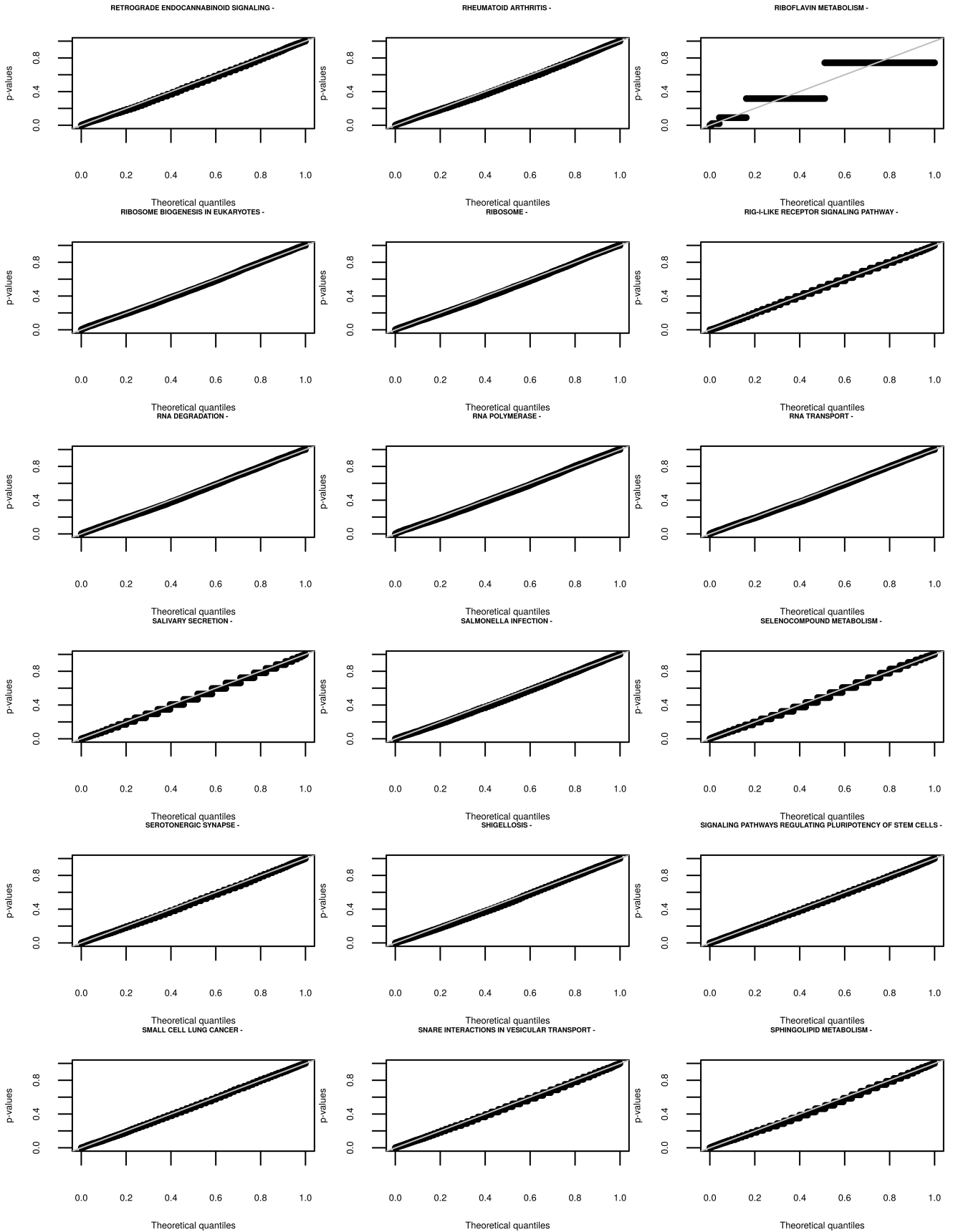


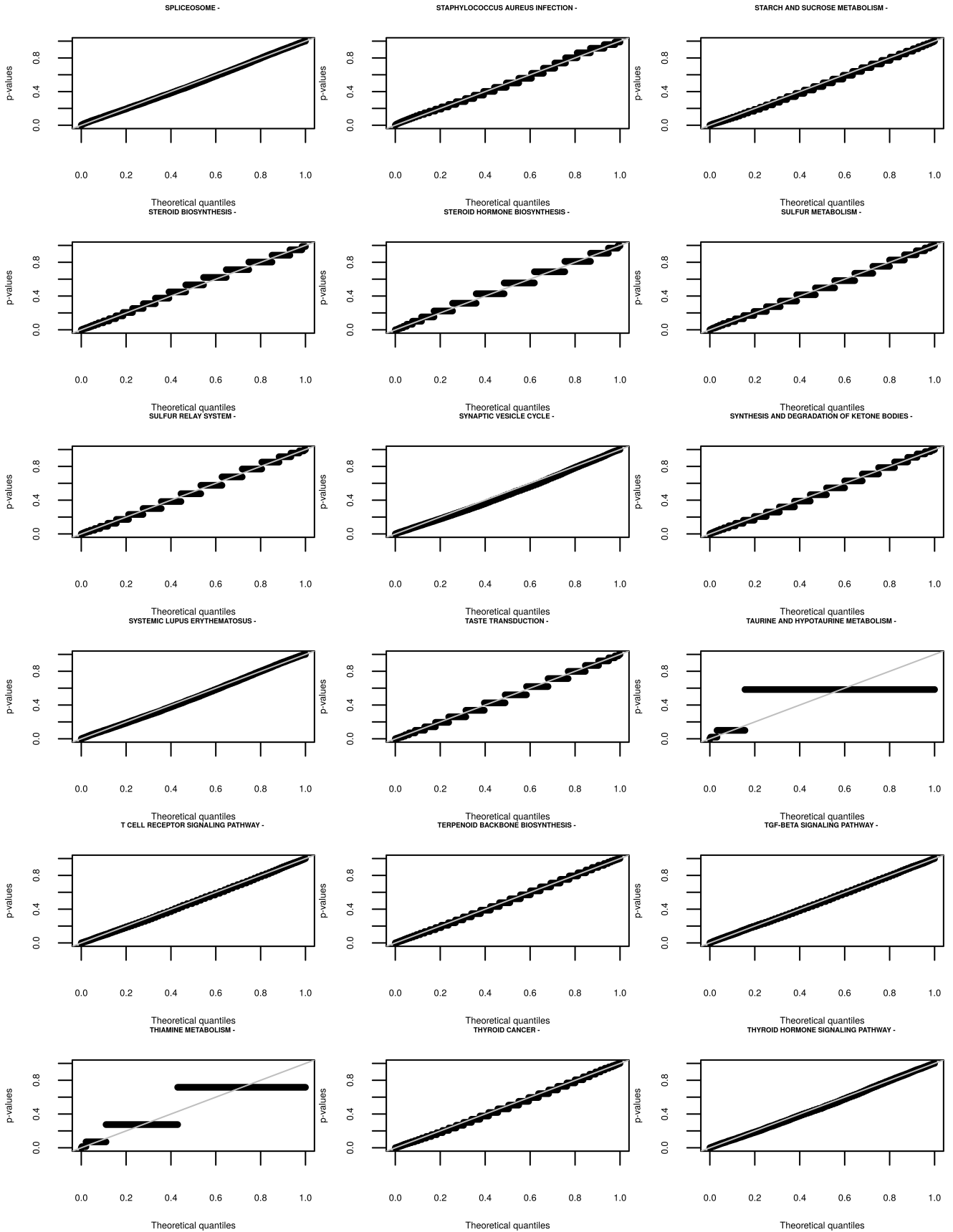


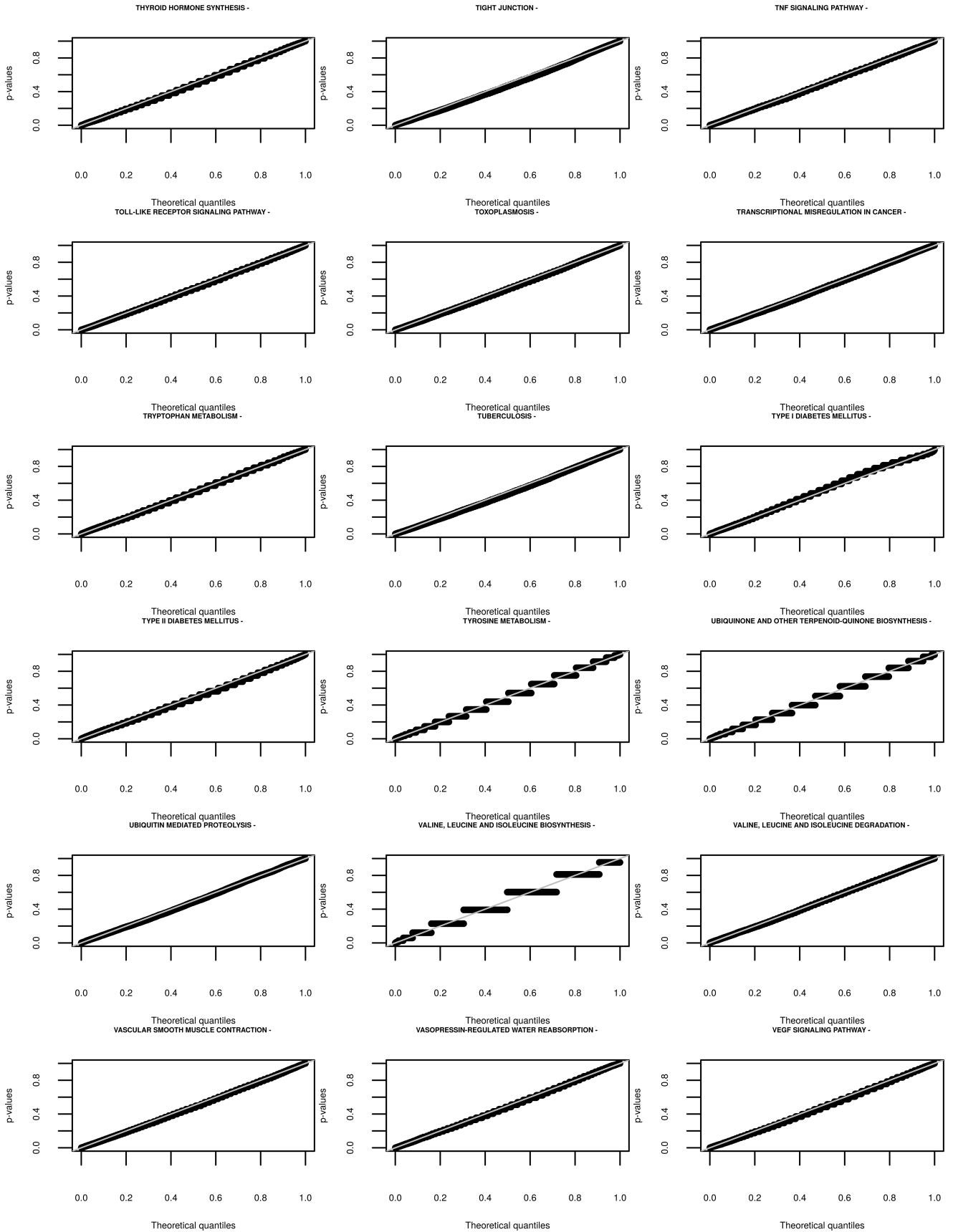






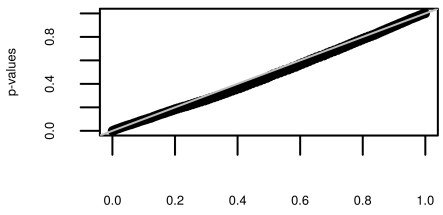




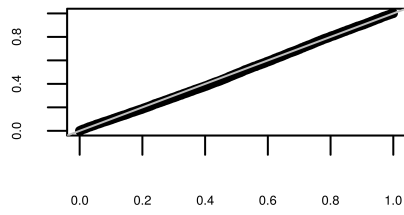




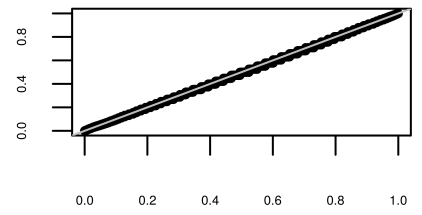
VIBRIO CHOLERAEE INFECTION -



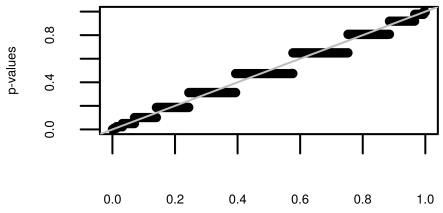
VIRAL CARCINOGENESIS -



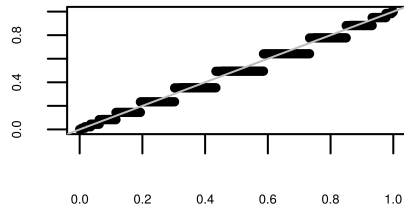
VIRAL MYOCARDITIS -



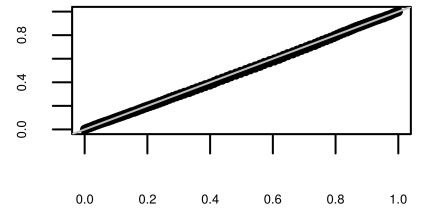
Theoretical quantiles  
VITAMIN B6 METABOLISM -



Theoretical quantiles  
VITAMIN DIGESTION AND ABSORPTION -



Theoretical quantiles  
WNT SIGNALING PATHWAY -



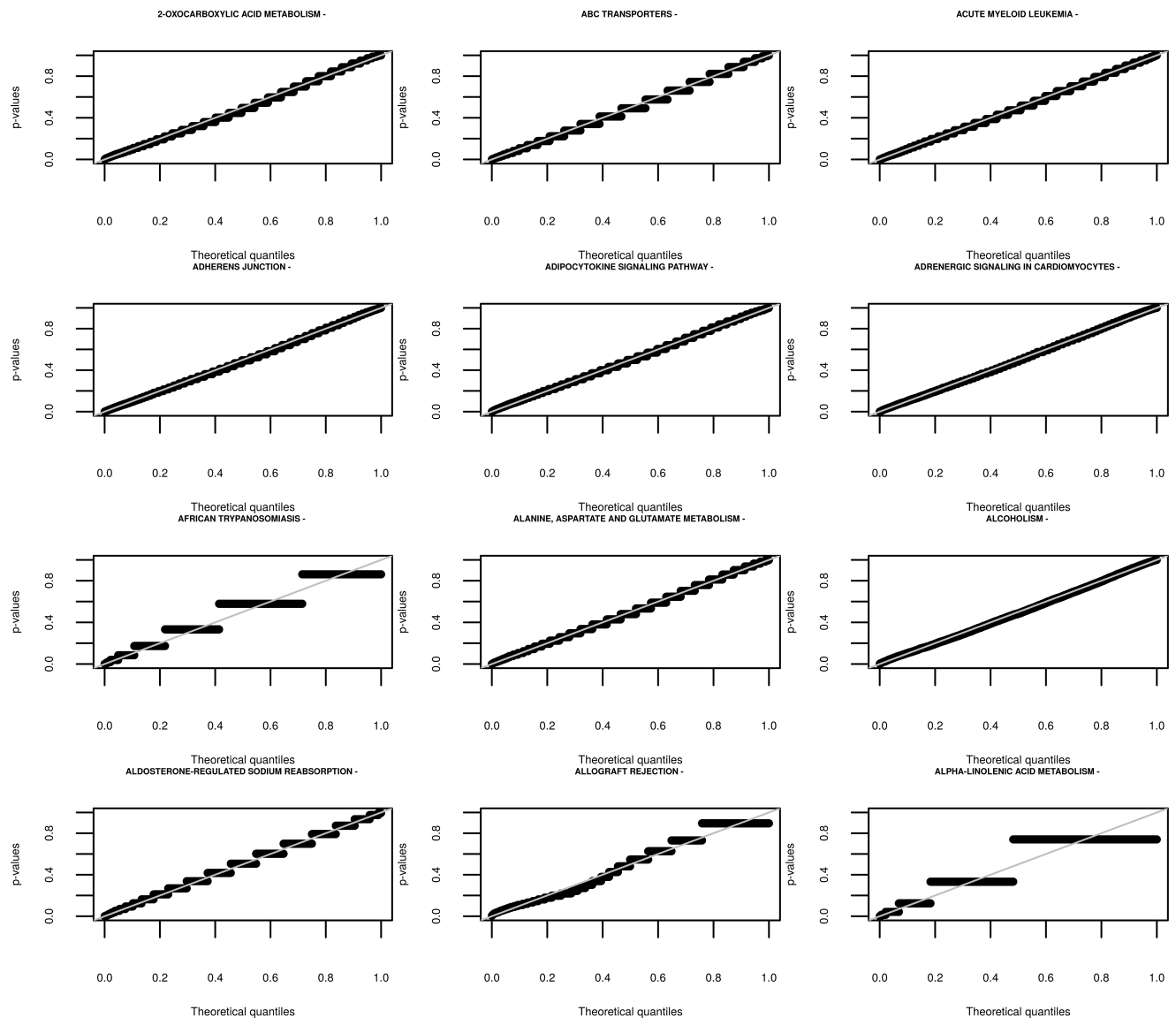
# Pathway-specific model estimation for improved pathway annotation by network crosstalk

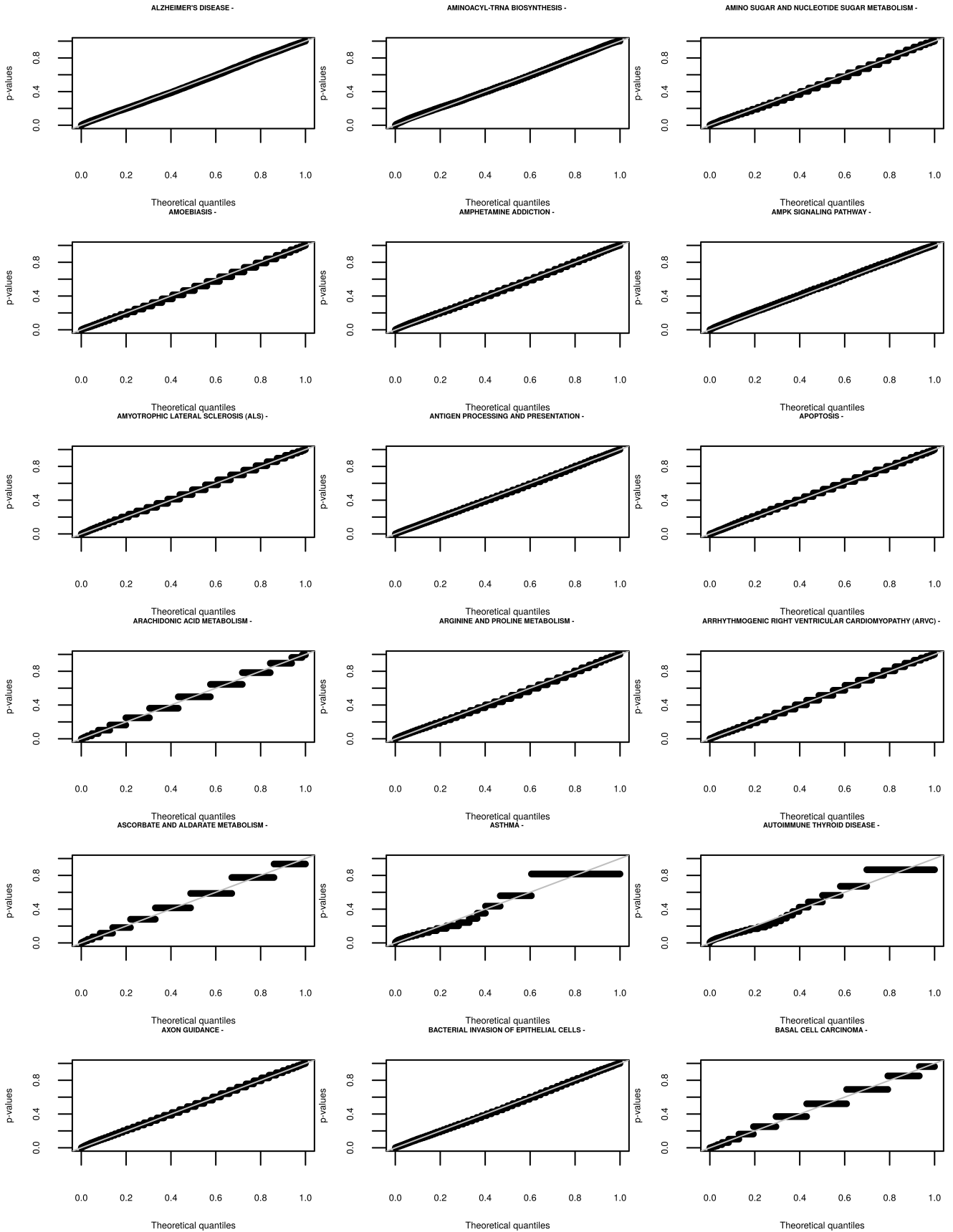
*Miguel Castresana-Aguirre, Erik L.L. Sonnhammer\**

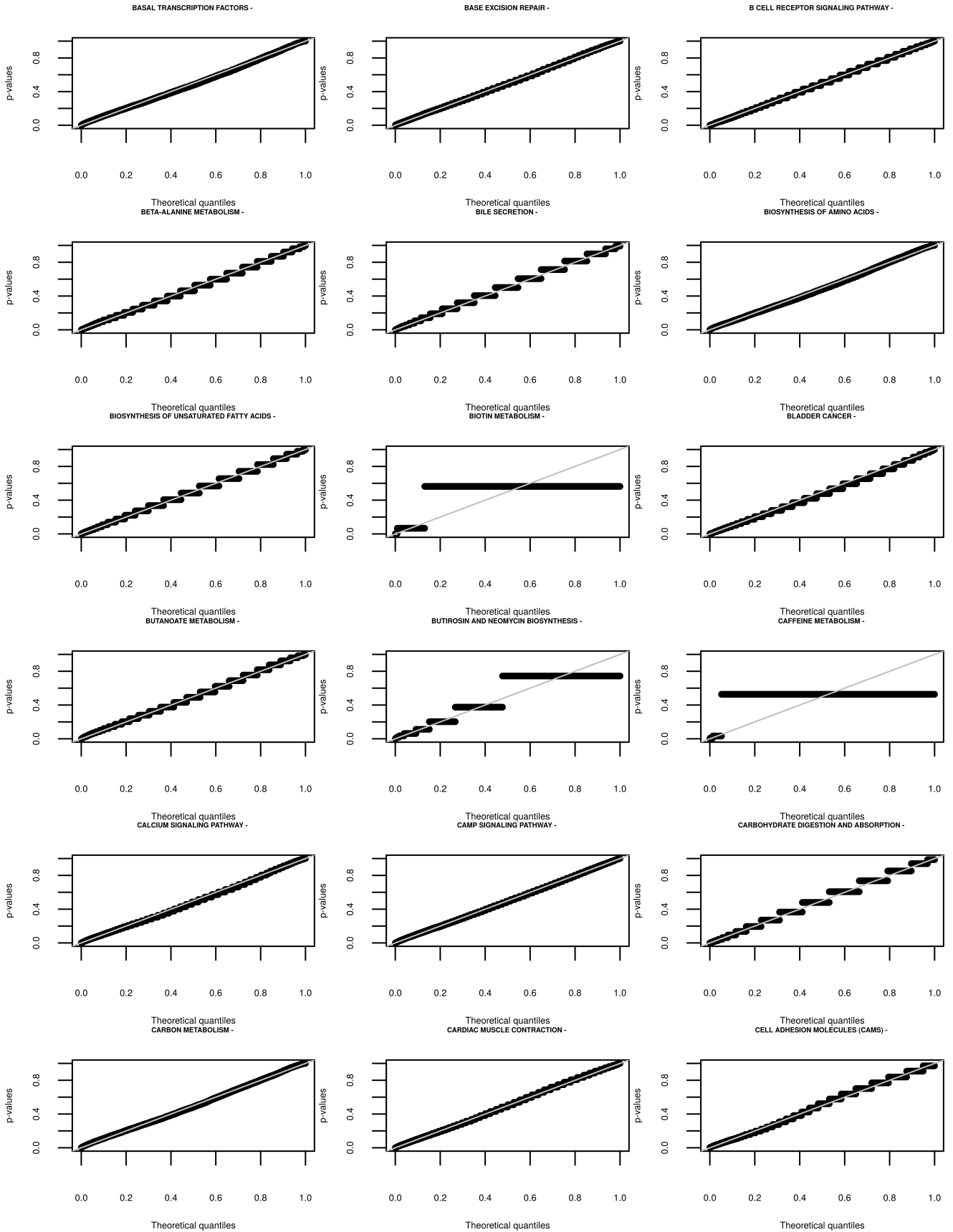
Department of Biochemistry and Biophysics, Stockholm University, Science for Life Laboratory, Box 1031, 17121 Solna, Sweden,

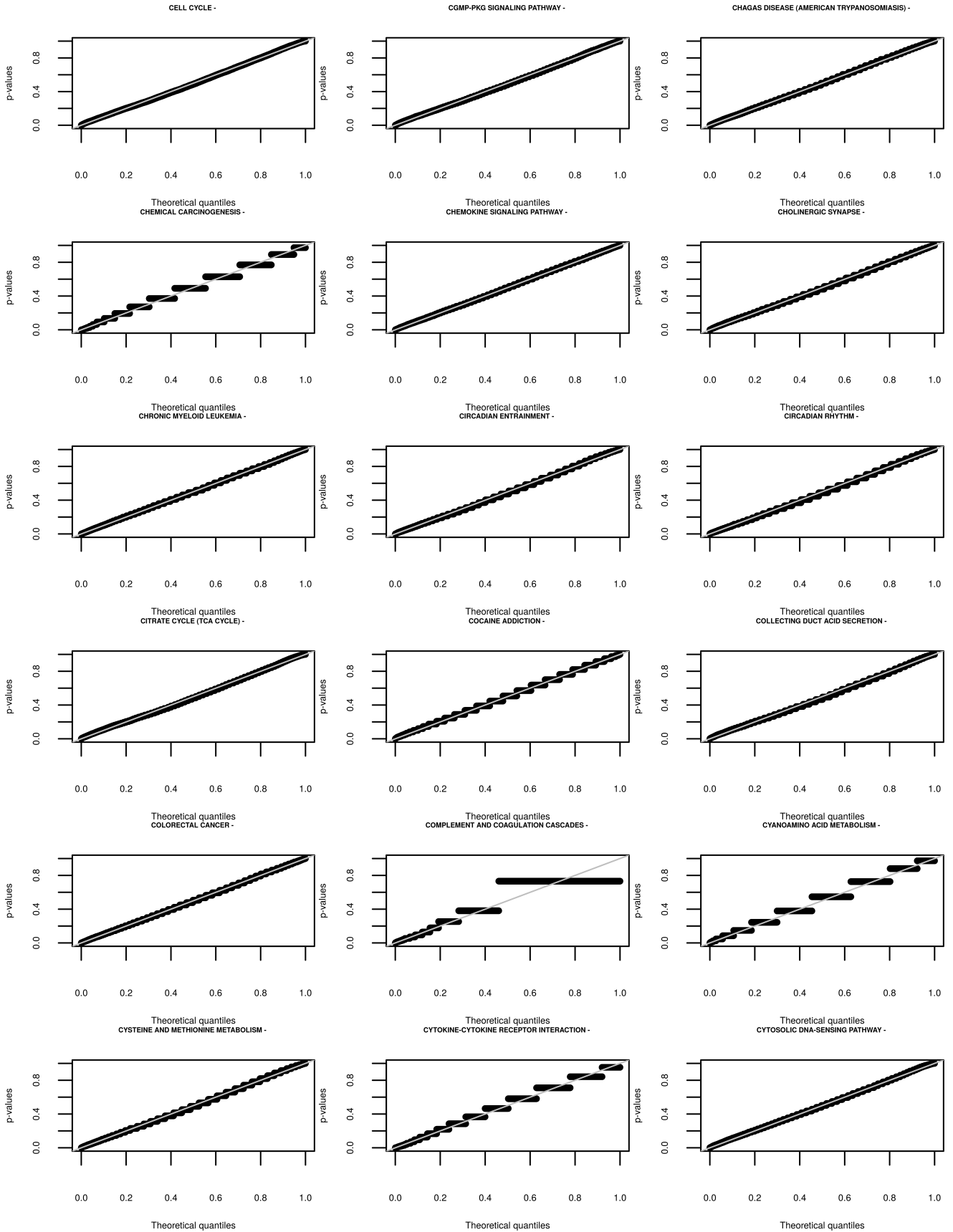
\*To whom correspondence should be addressed: erik.sonnhammer@dbb.su.se

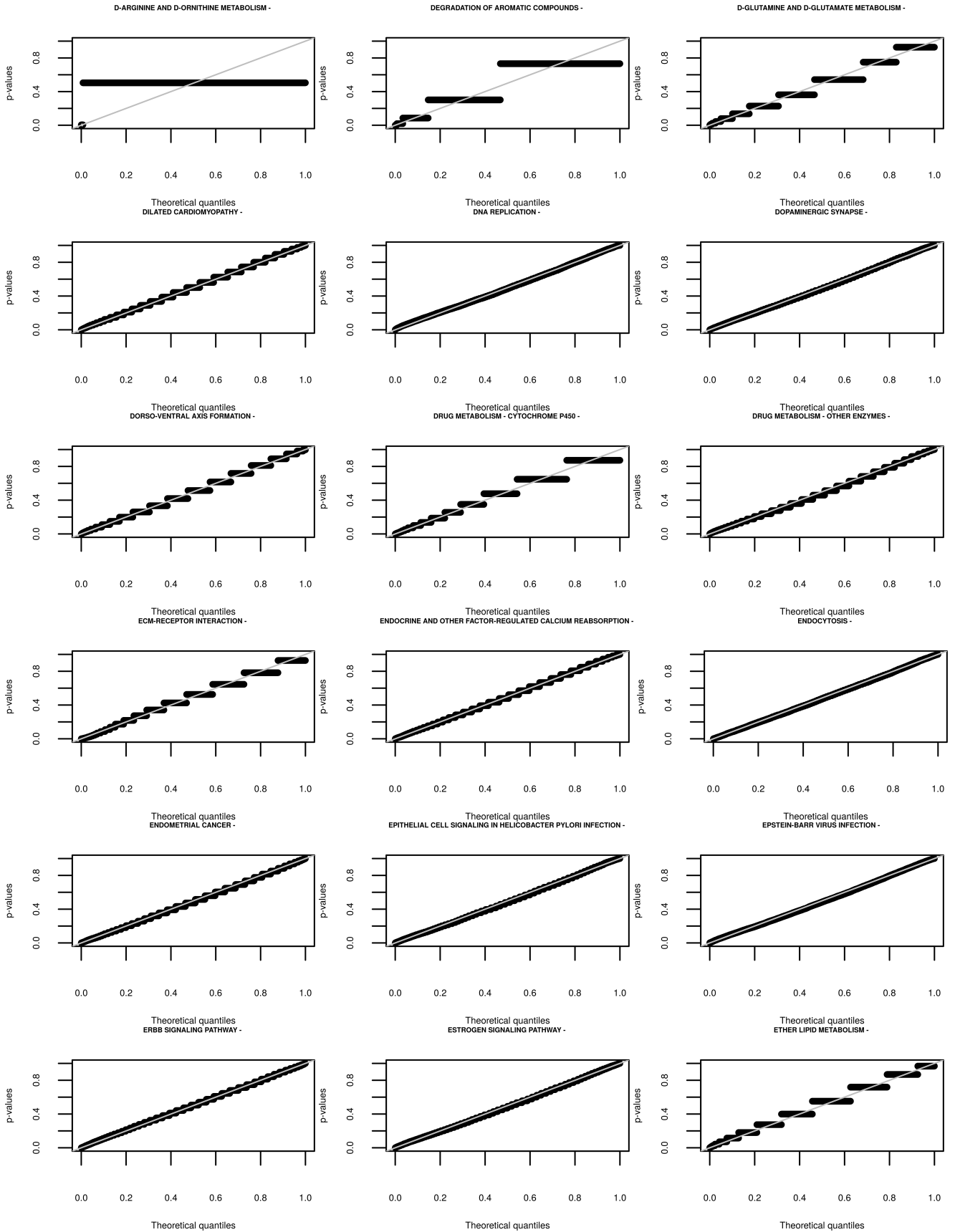
**Supplementary Figure 2:** 10000 random gene sets of size 50 are run against KEGG pathways. P-value uniformity test of ANUBIX. Reported p-values are plotted against theoretical quantile (rank). Software: R version 3.4.3 <https://www.r-project.org/>.

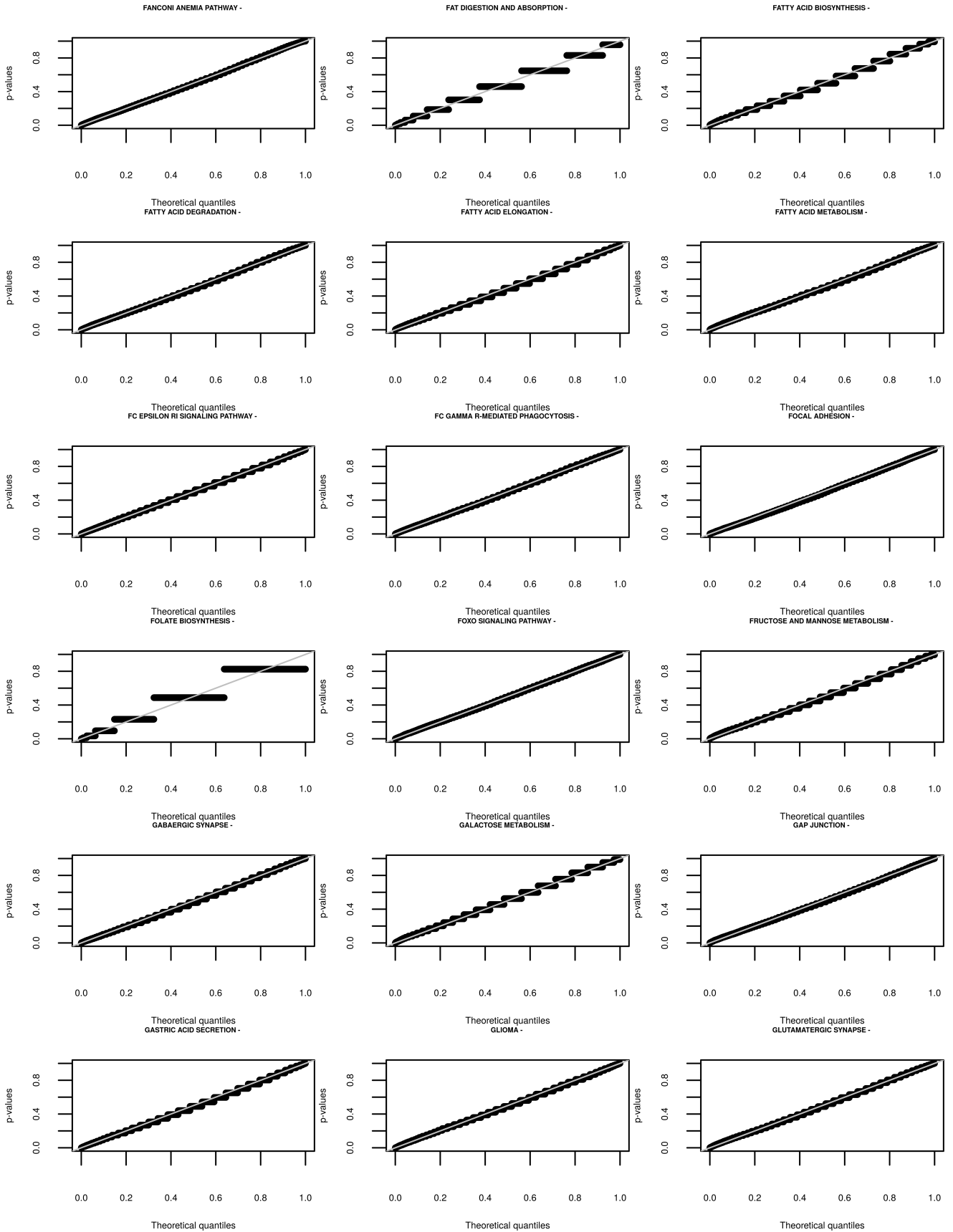


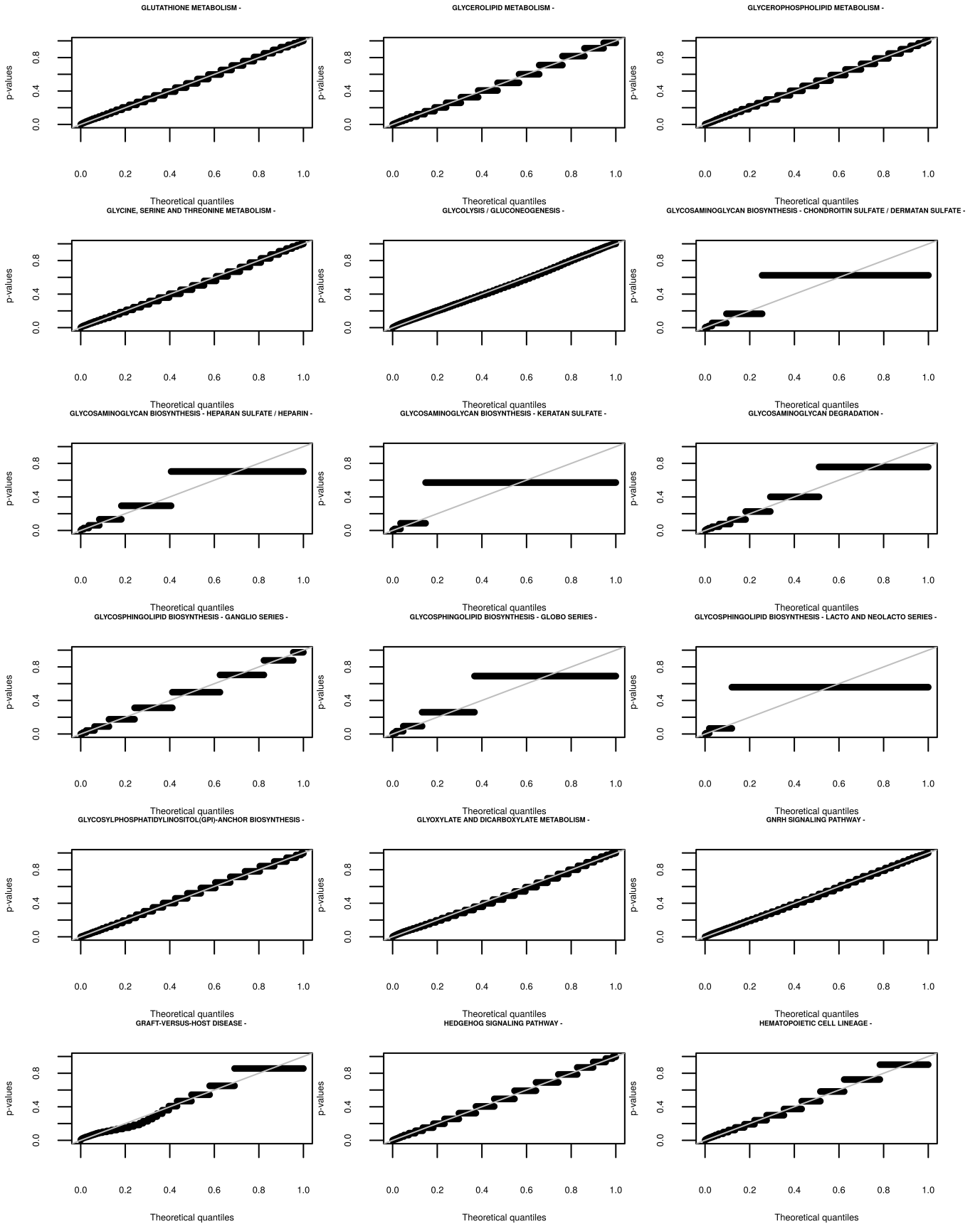




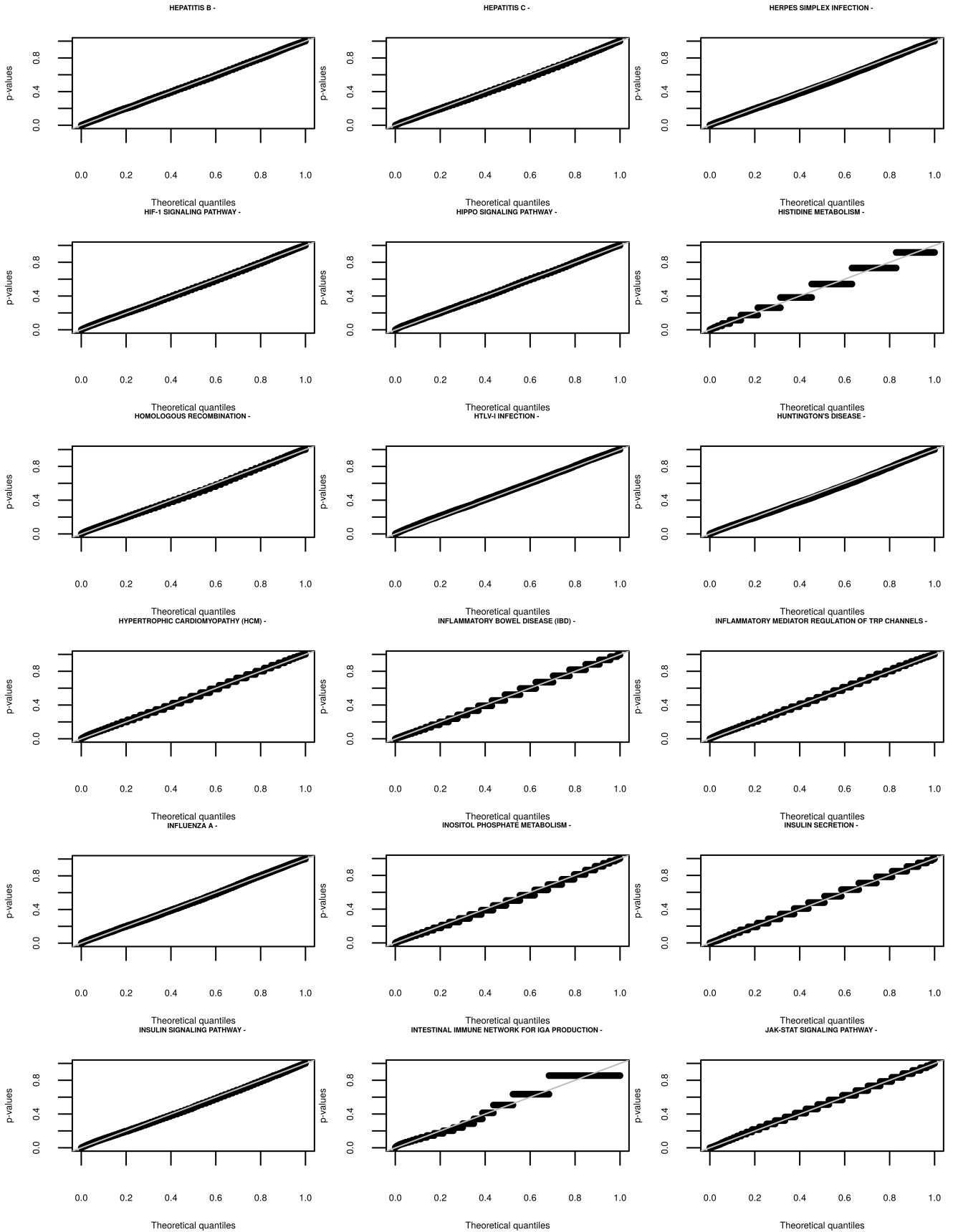


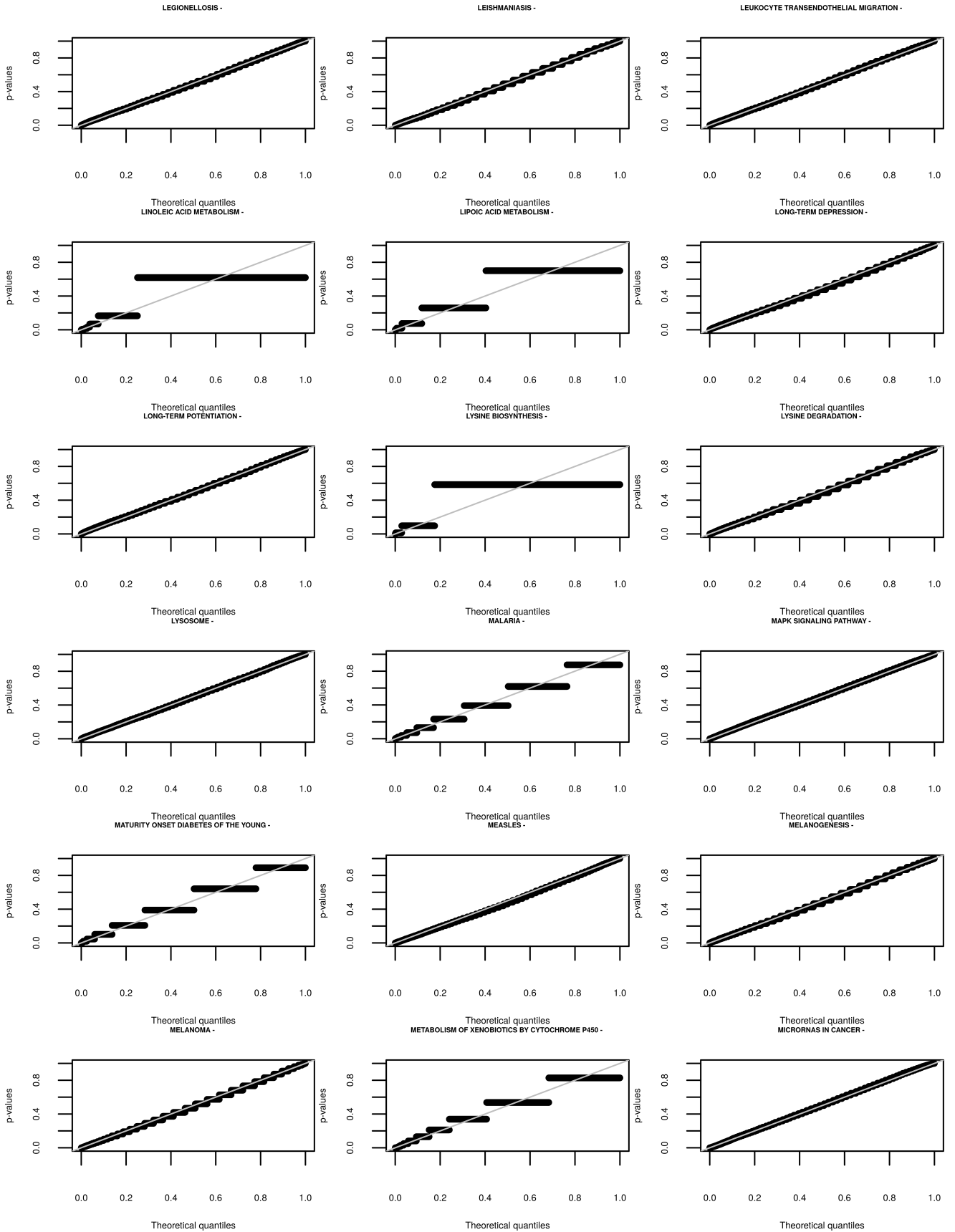


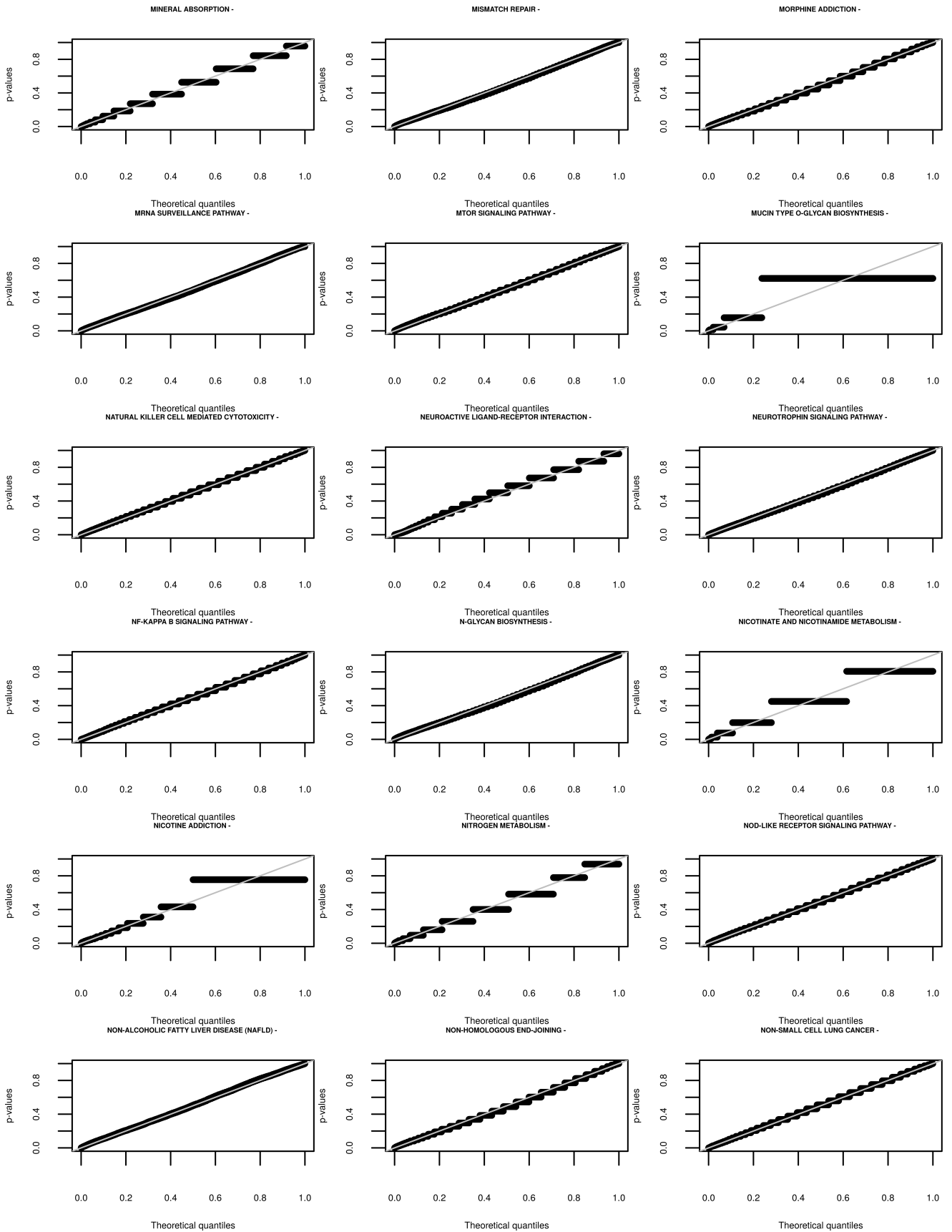


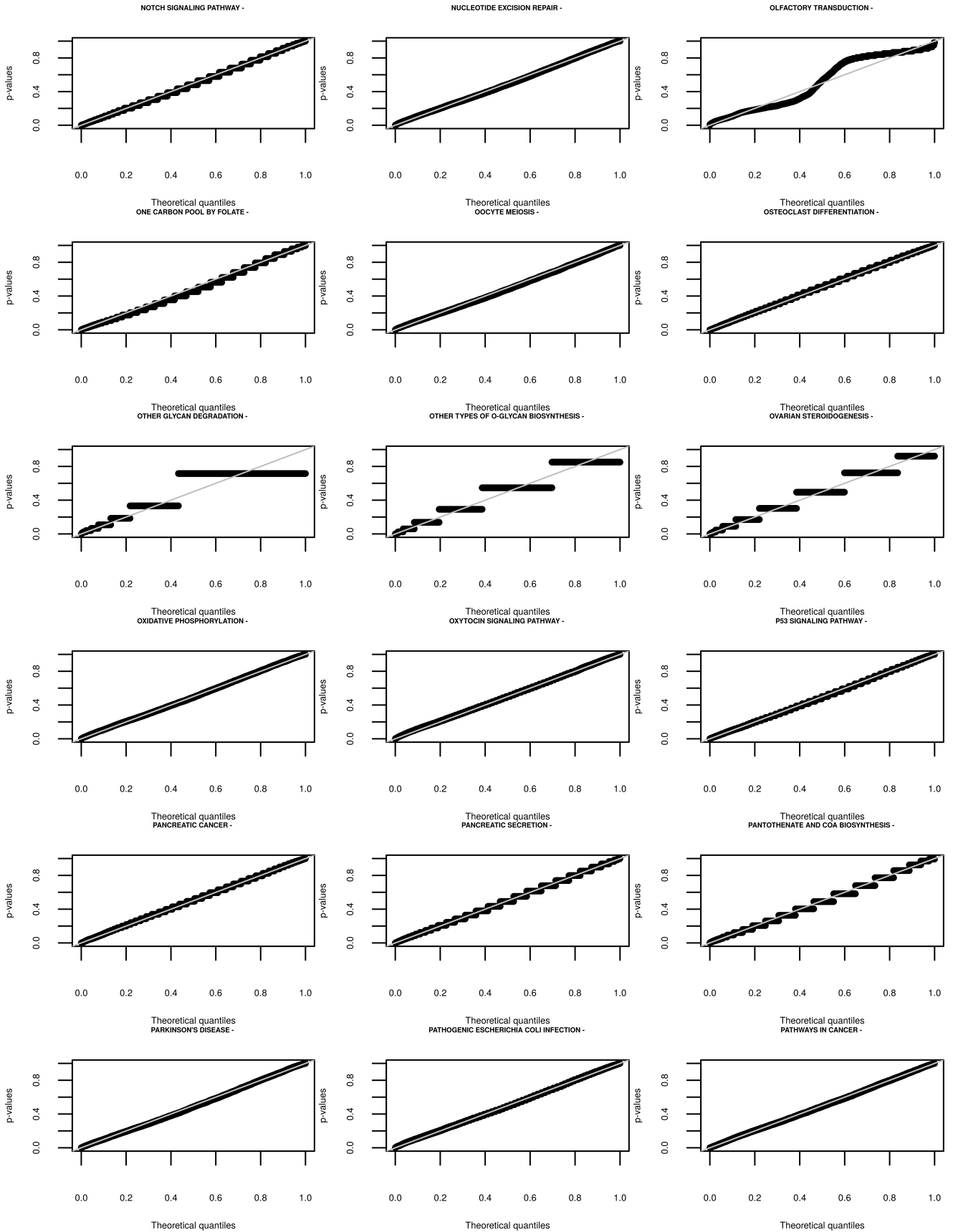


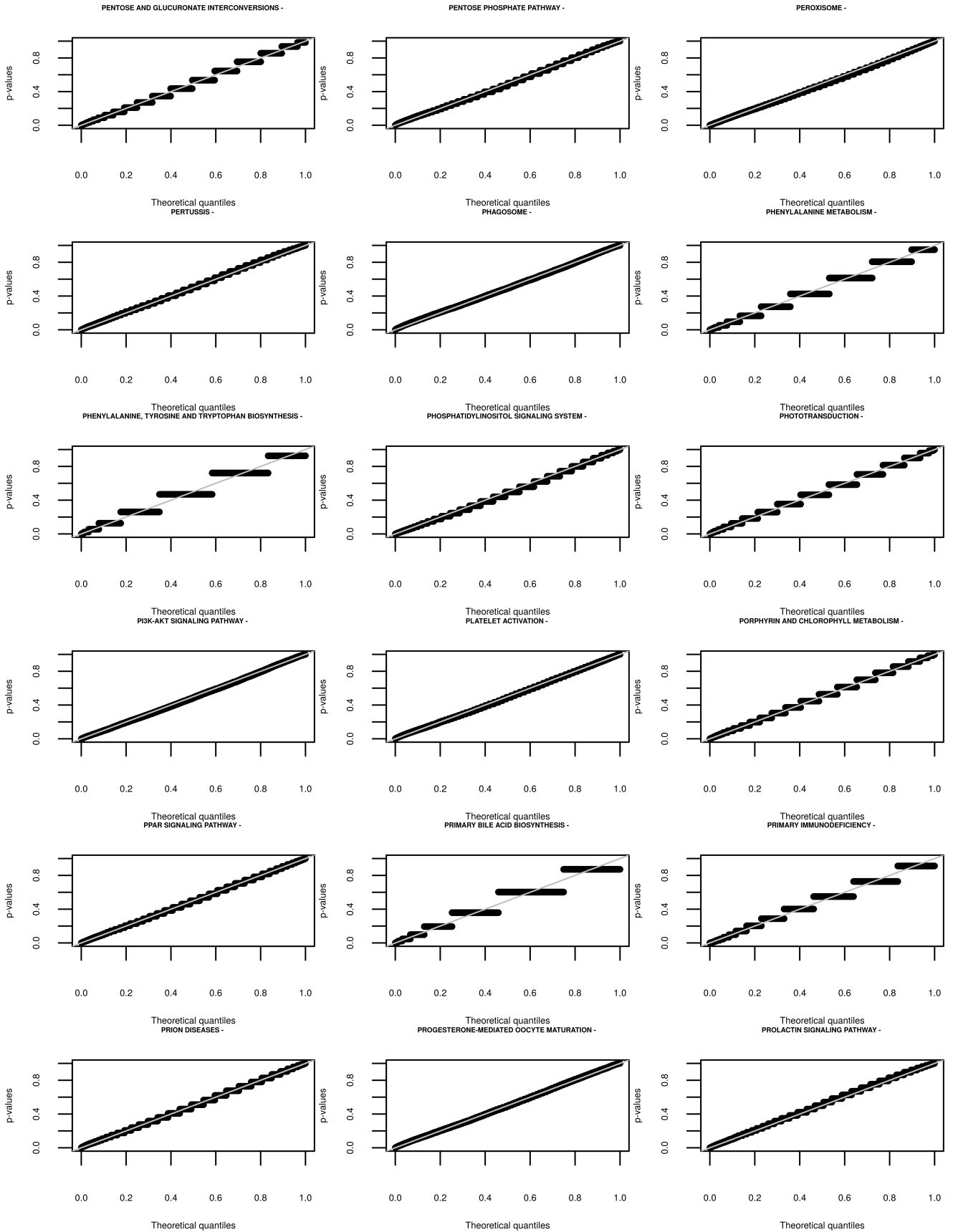


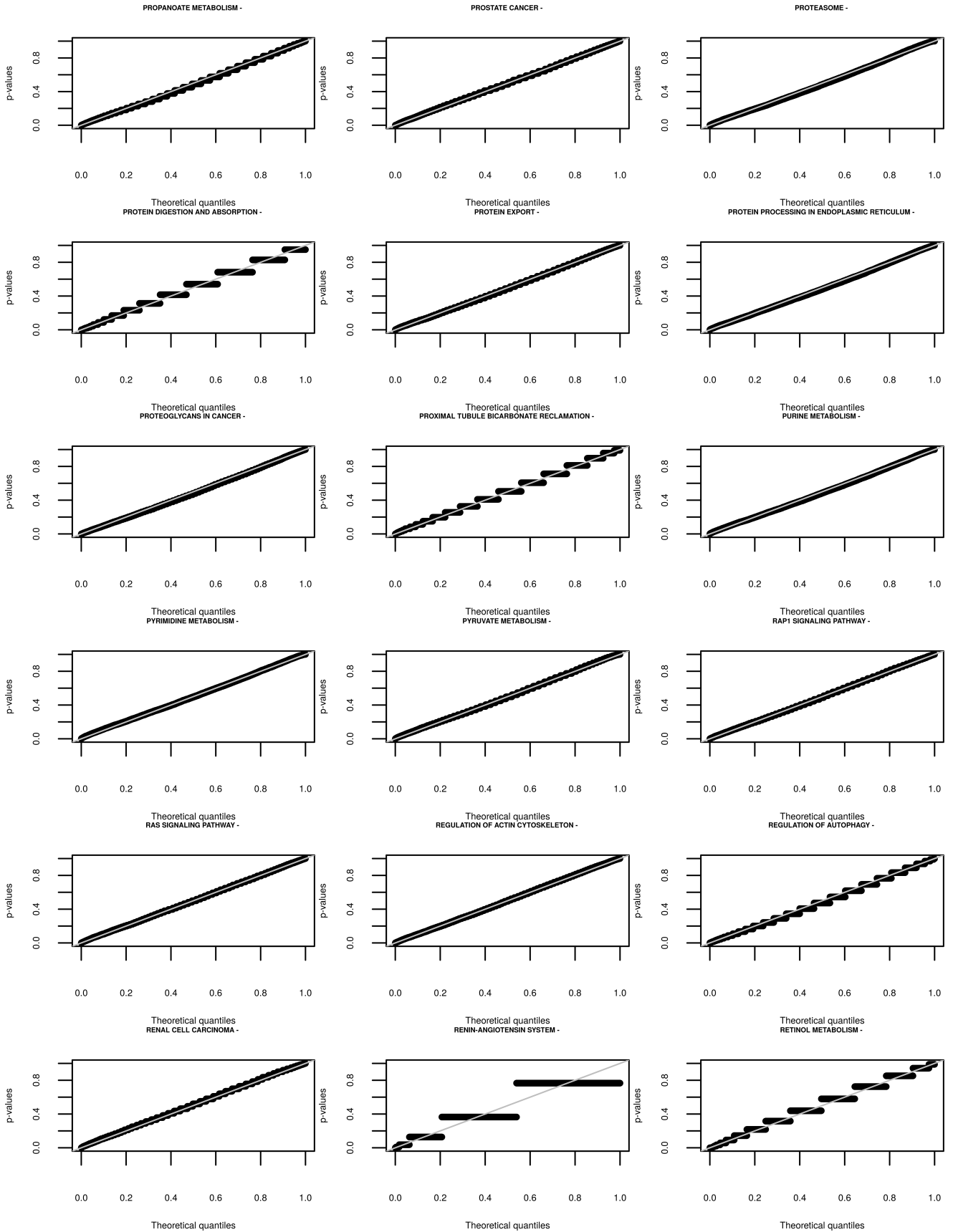


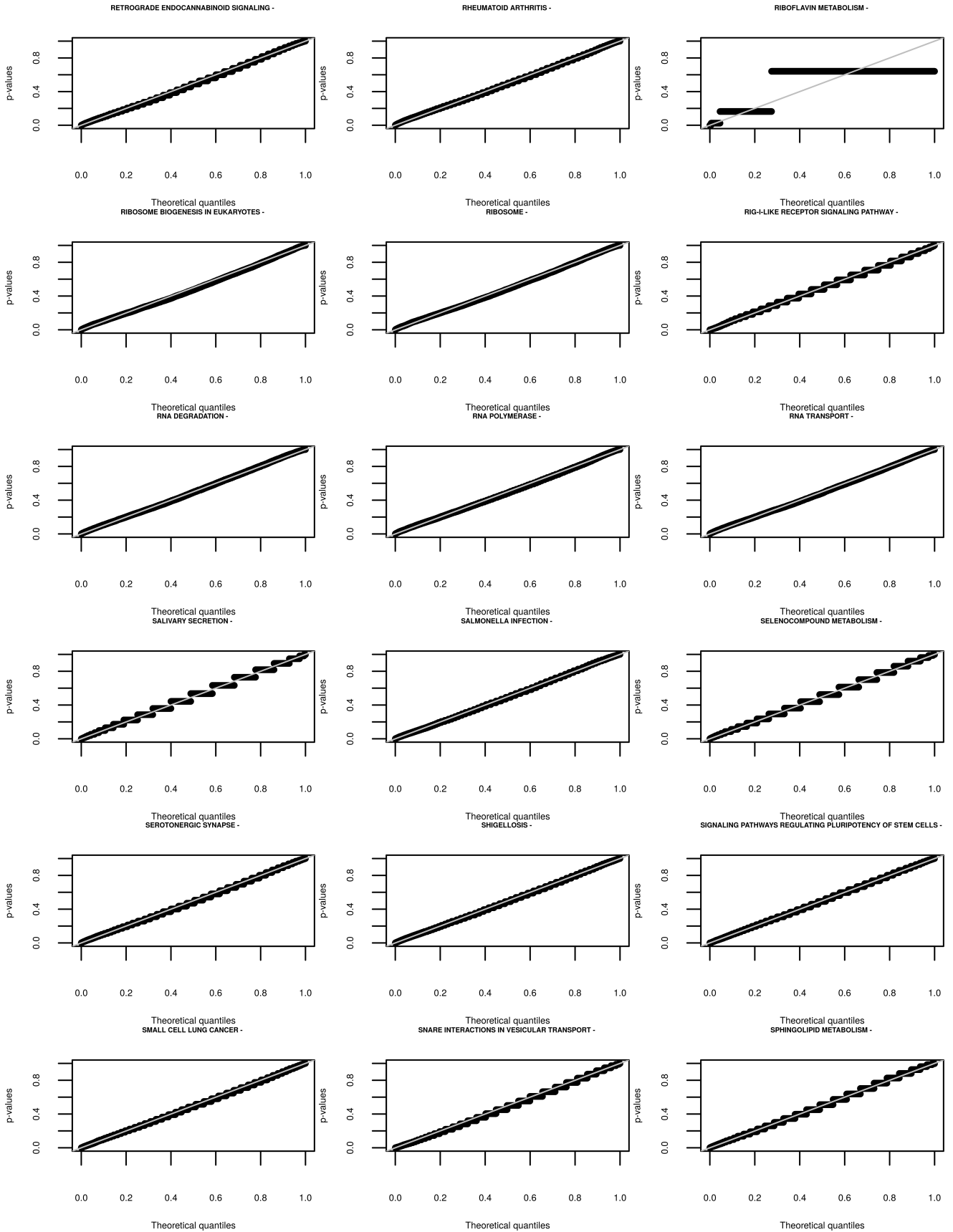


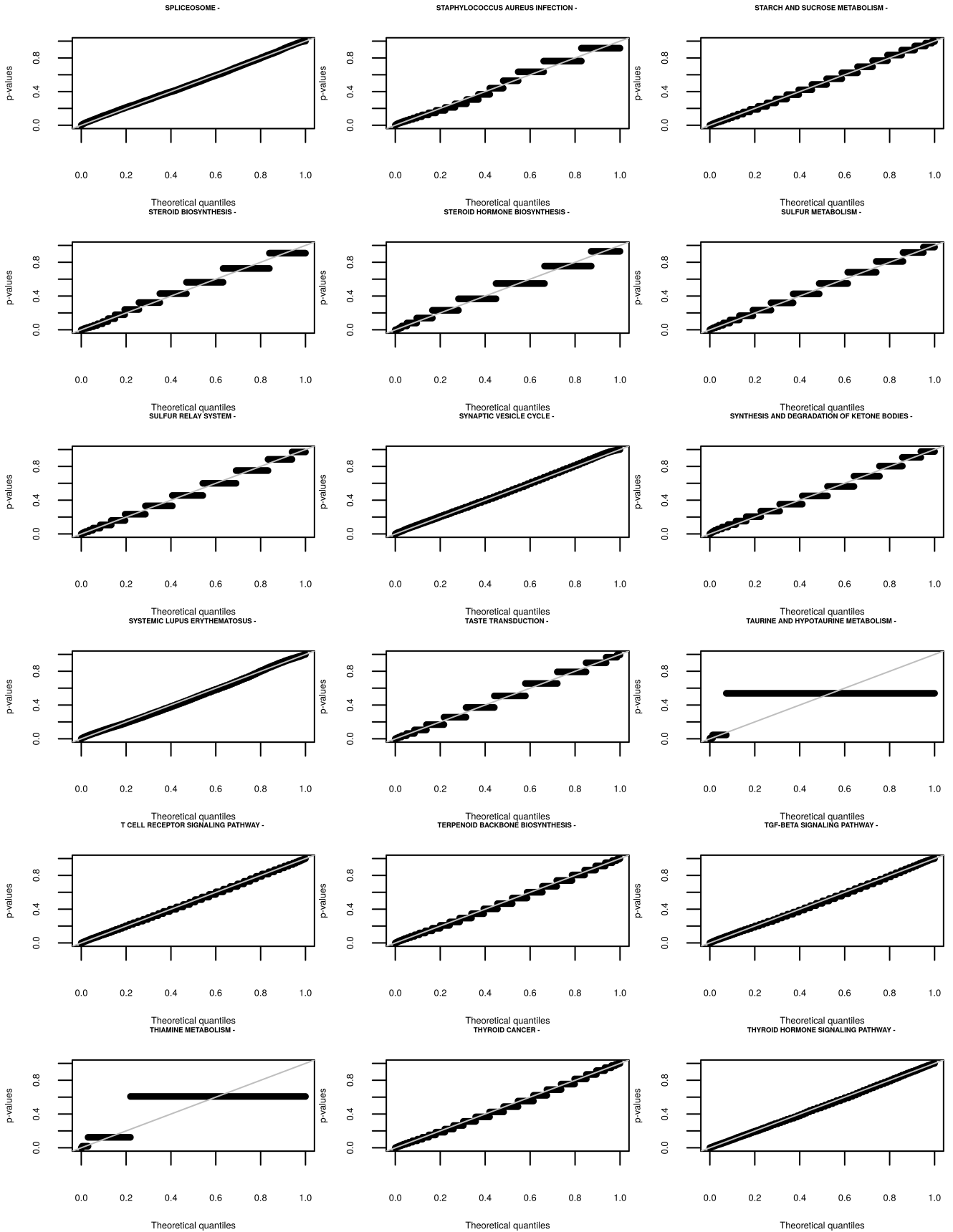




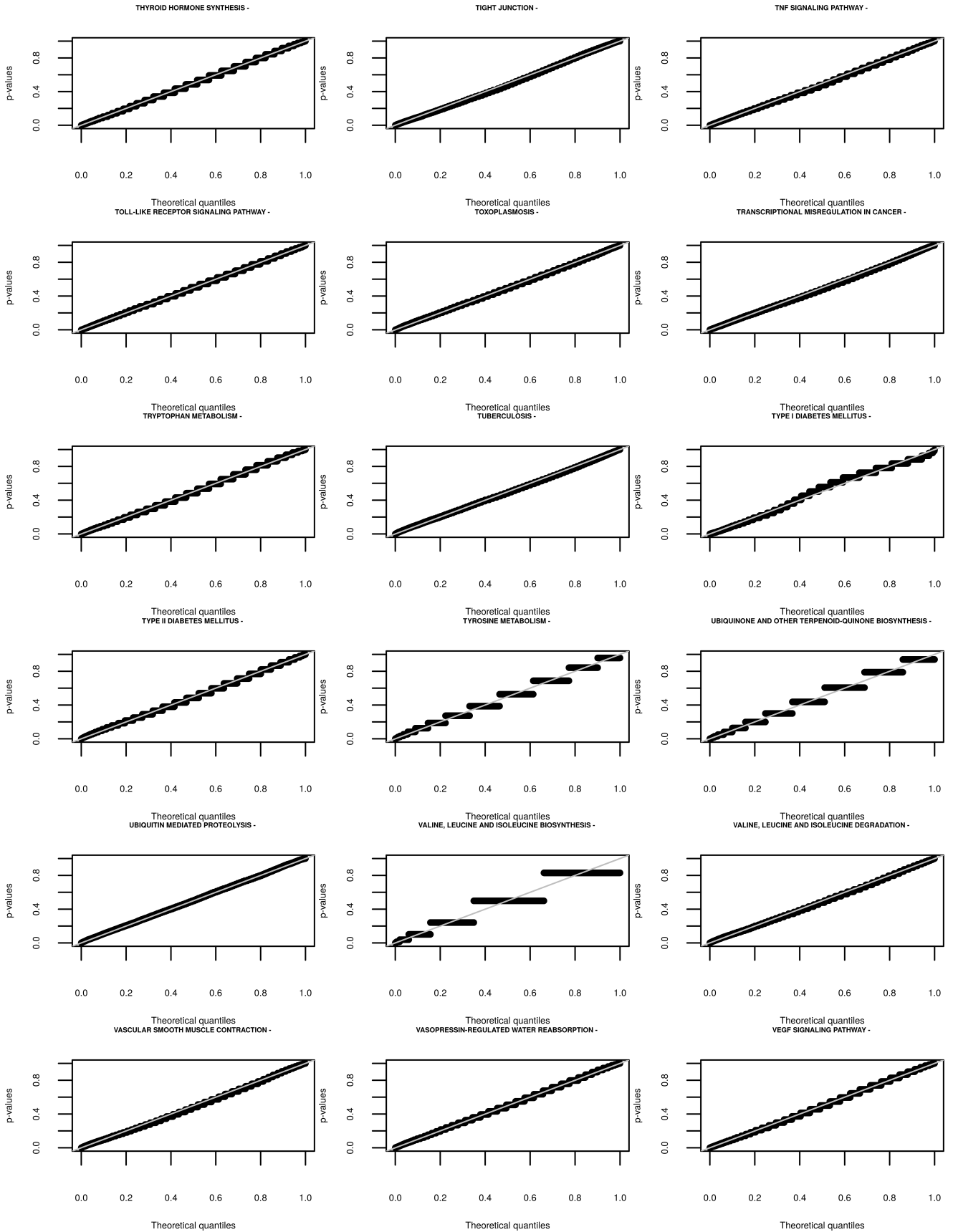




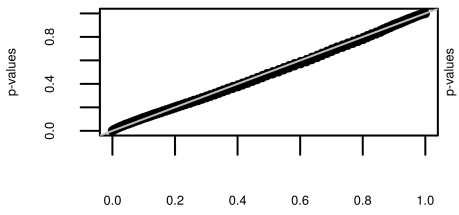




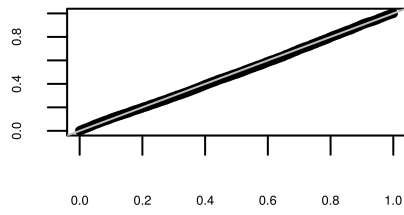




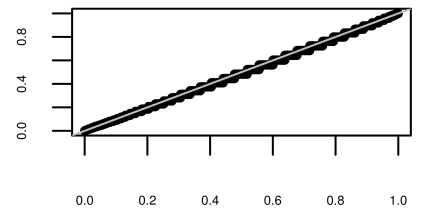
VIBRIO CHOLERAEE INFECTION -



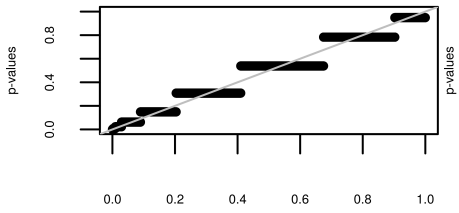
VIRAL CARCINOGENESIS -



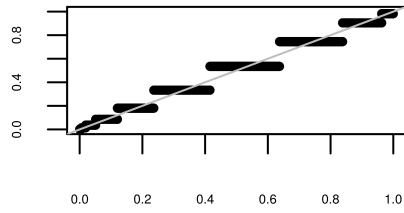
VIRAL MYOCARDITIS -



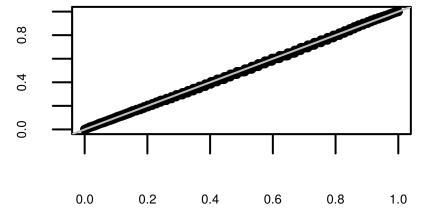
Theoretical quantiles  
VITAMIN B6 METABOLISM -



Theoretical quantiles  
VITAMIN DIGESTION AND ABSORPTION -



Theoretical quantiles  
WNT SIGNALING PATHWAY -



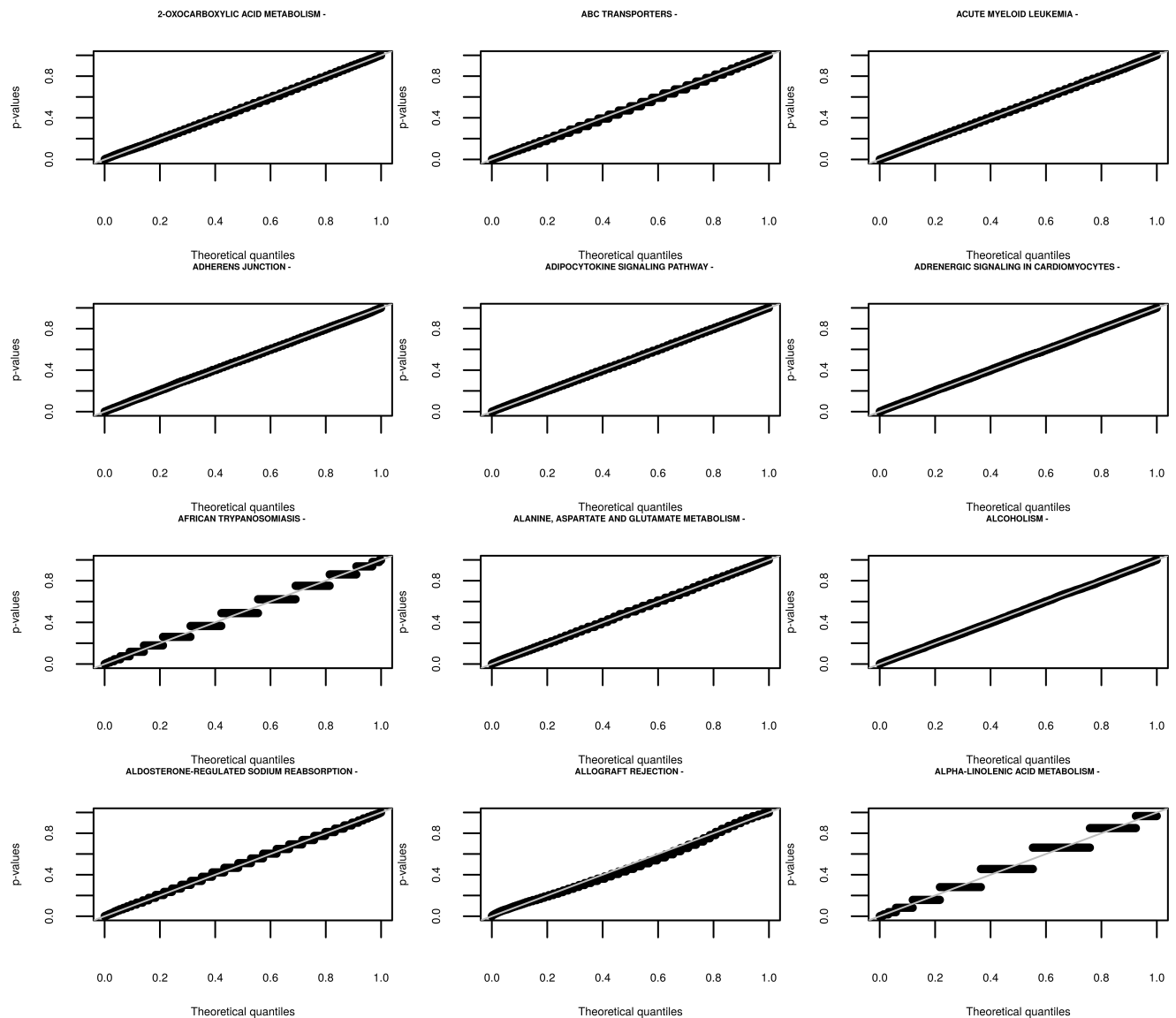
# Pathway-specific model estimation for improved pathway annotation by network crosstalk

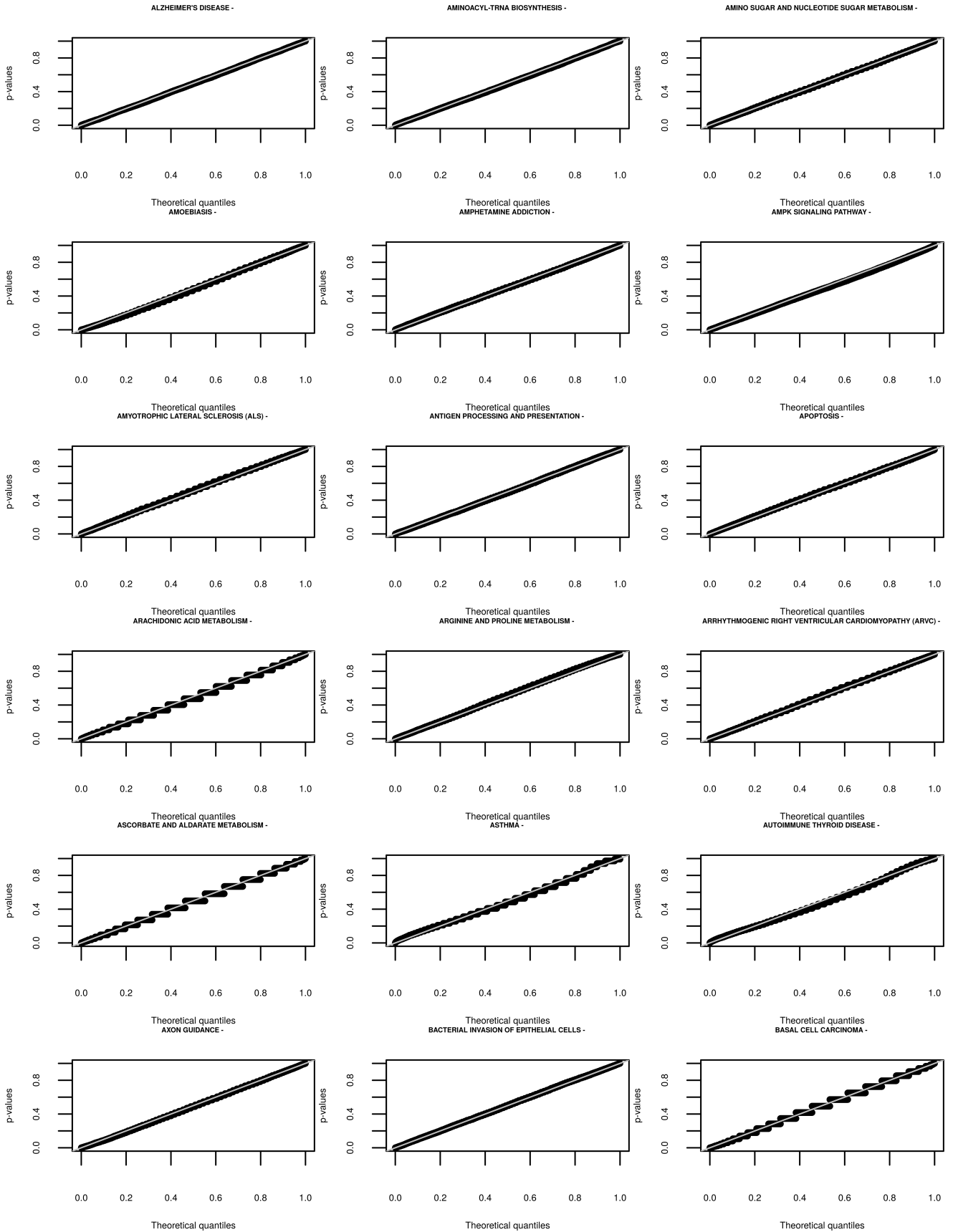
*Miguel Castresana-Aguirre, Erik L.L. Sonnhammer\**

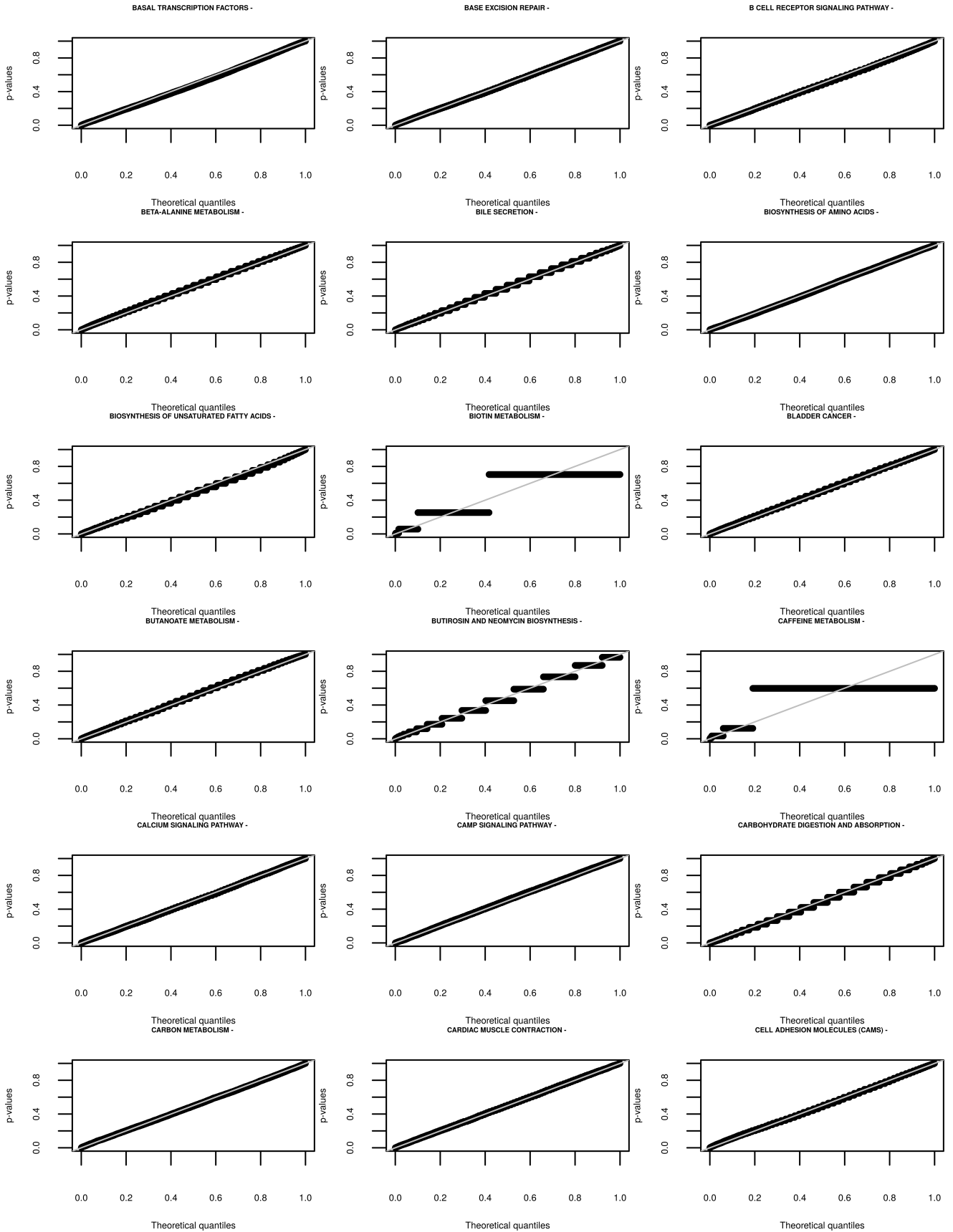
Department of Biochemistry and Biophysics, Stockholm University, Science for Life Laboratory, Box 1031, 17121 Solna, Sweden,

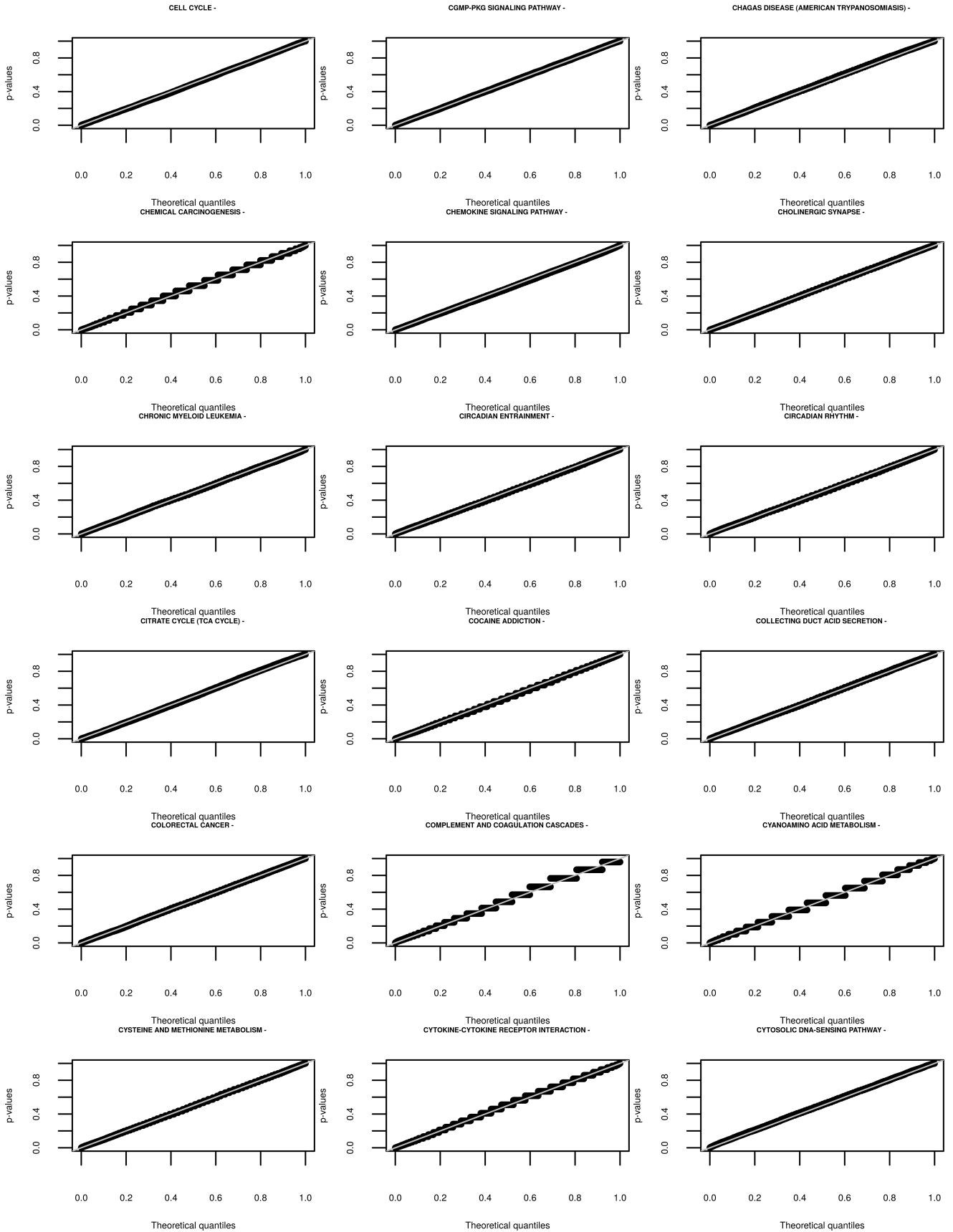
\*To whom correspondence should be addressed: erik.sonnhammer@dbb.su.se

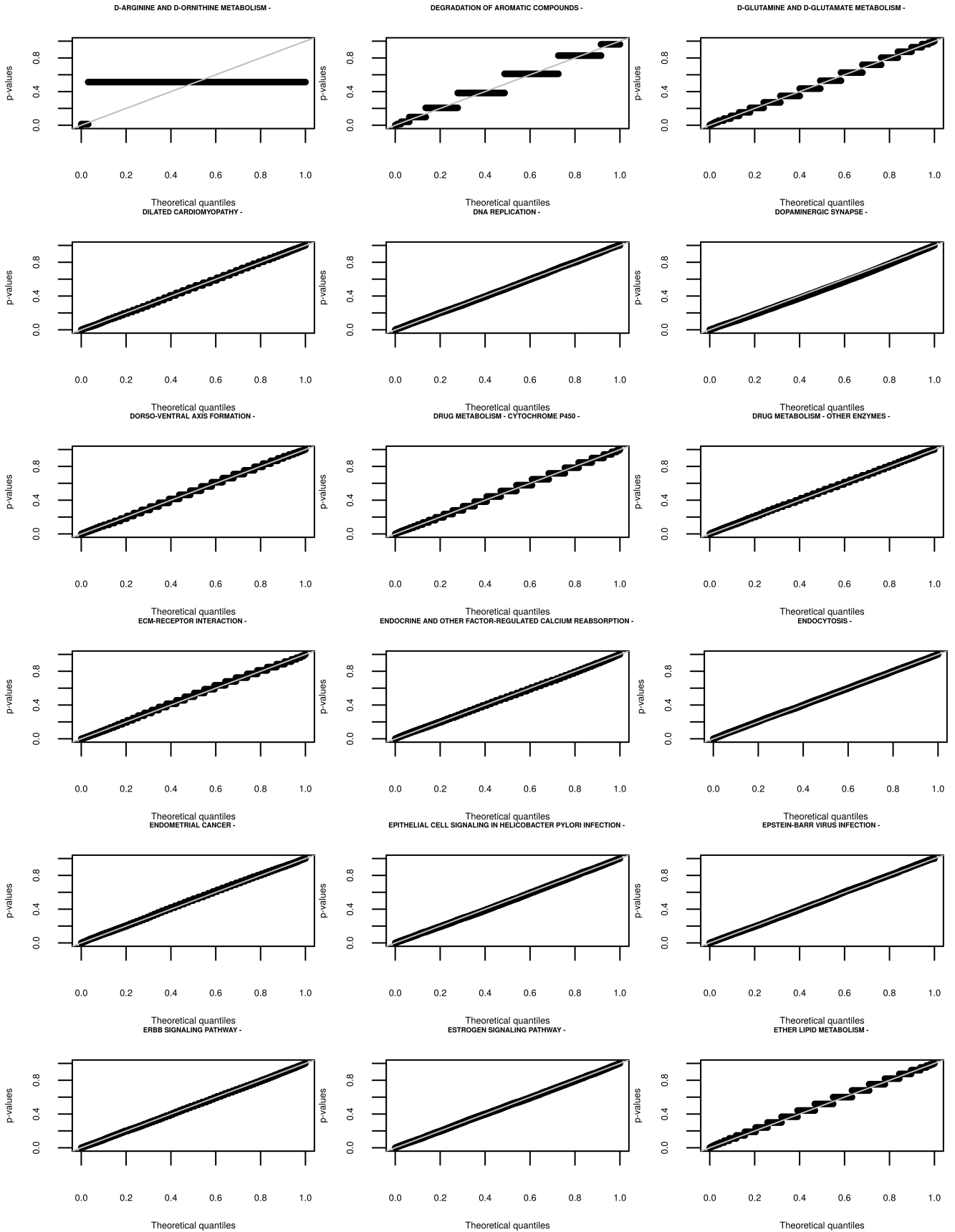
**Supplementary Figure 3:** 10000 random gene sets of size 200 are run against KEGG pathways. P-value uniformity test of ANUBIX. Reported p-values are plotted against theoretical quantile (rank). Software: R version 3.4.3 <https://www.r-project.org/>.

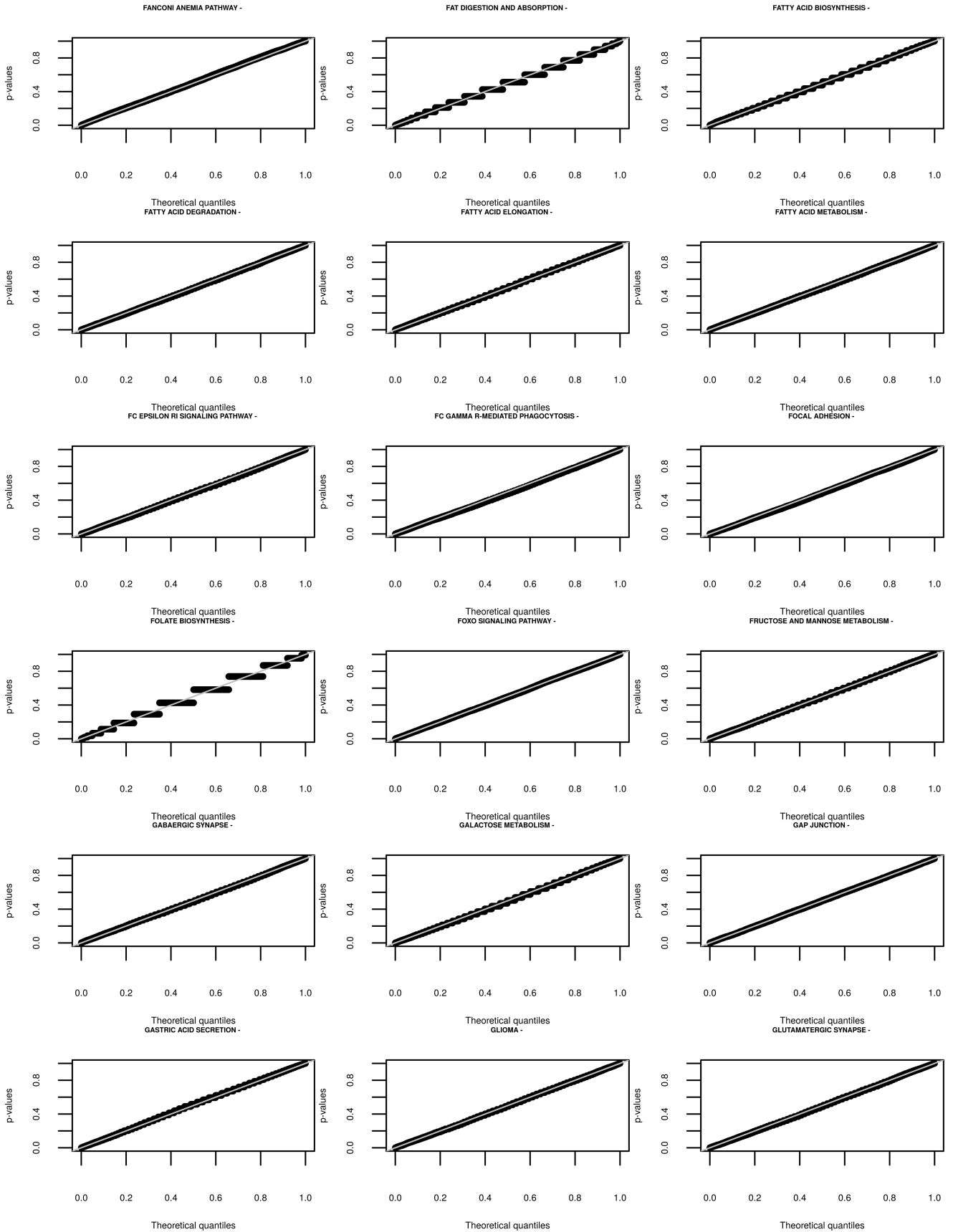




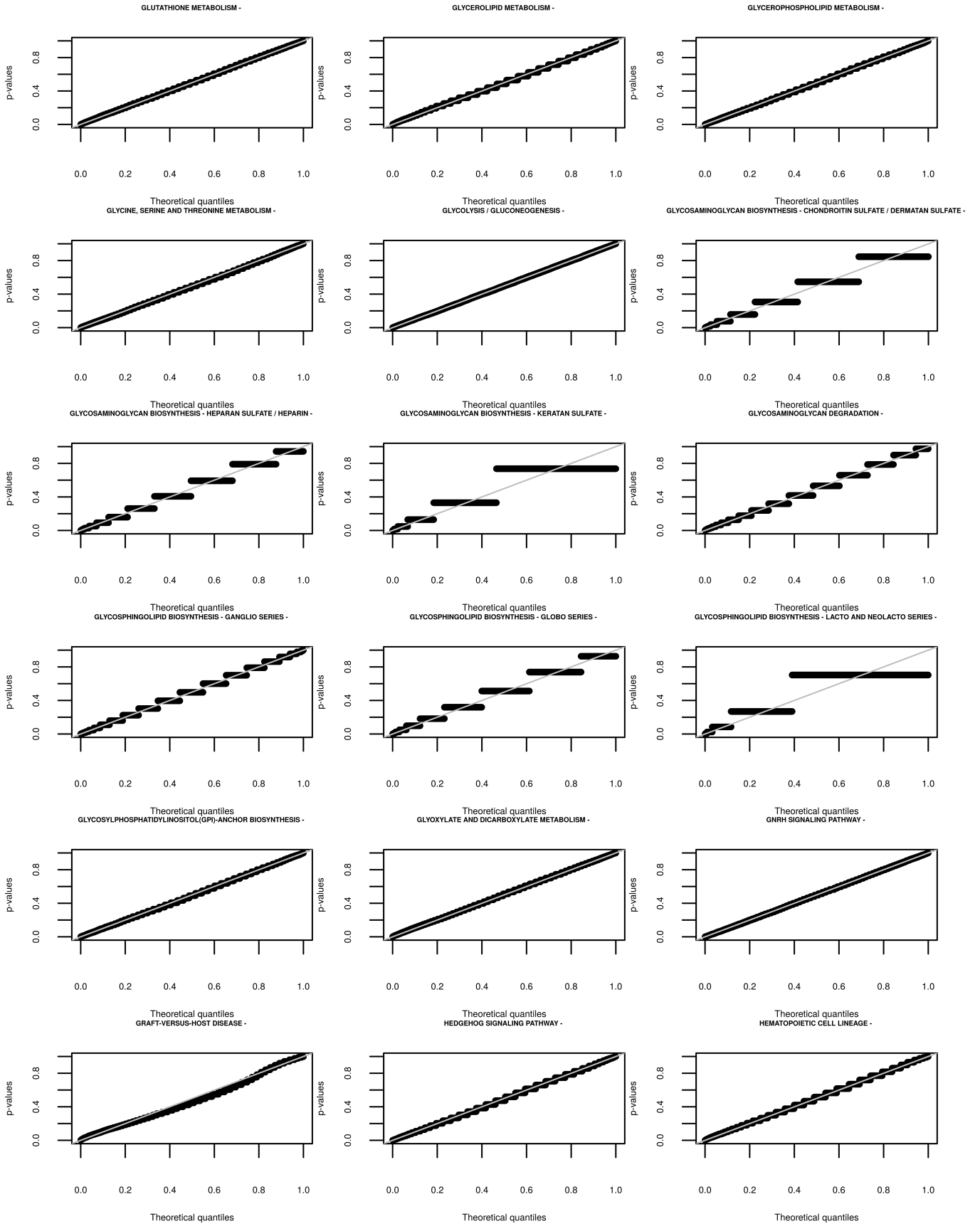


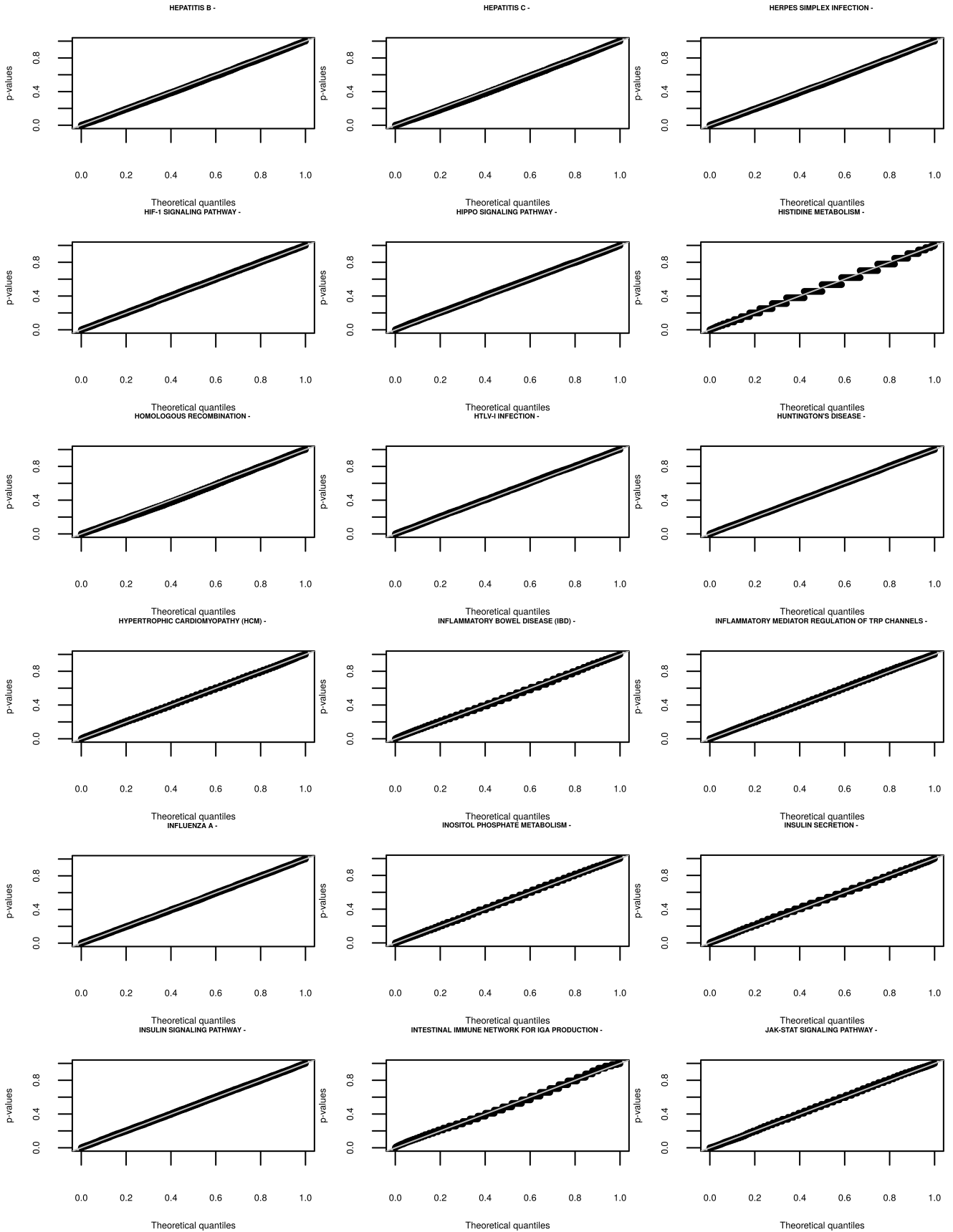


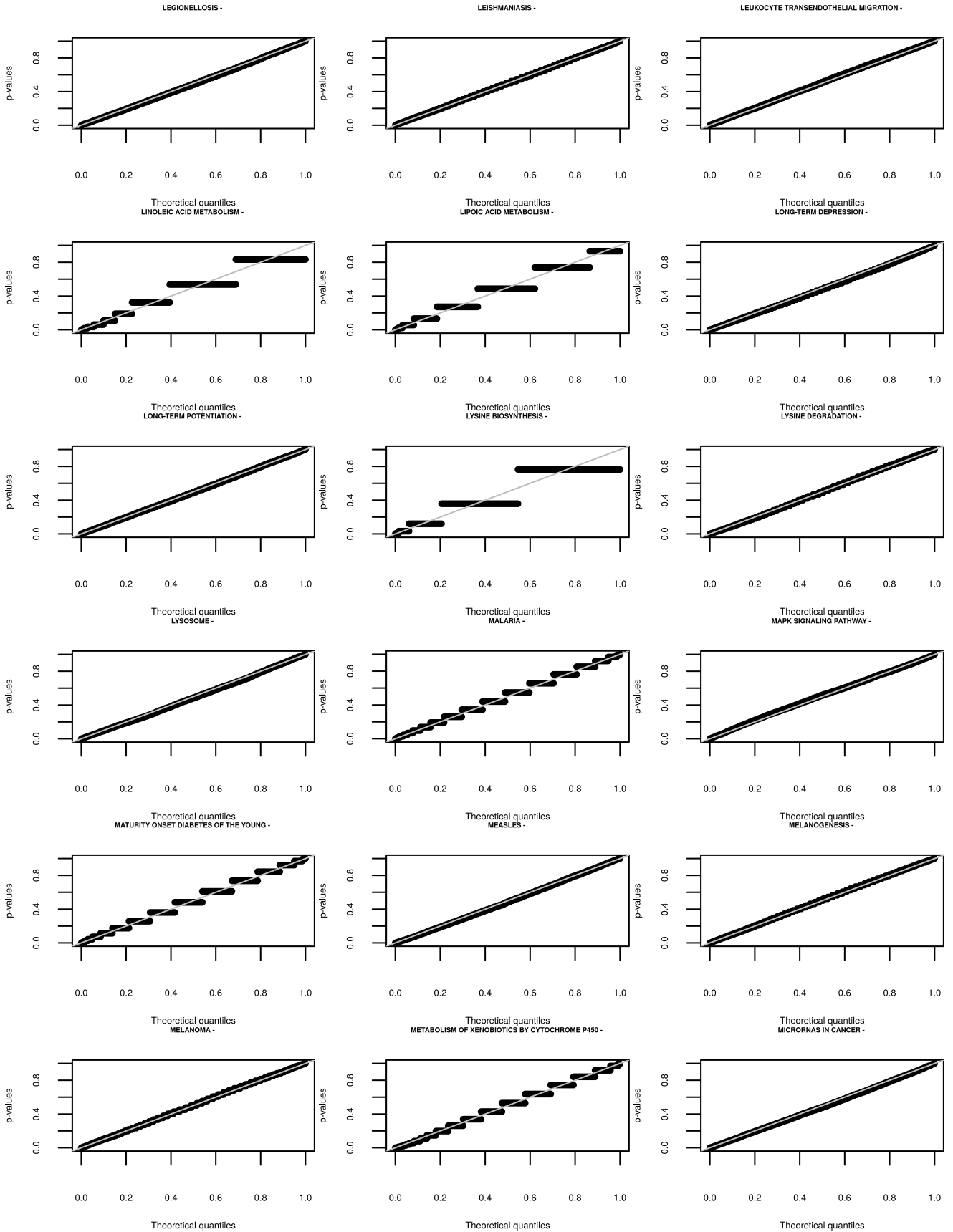


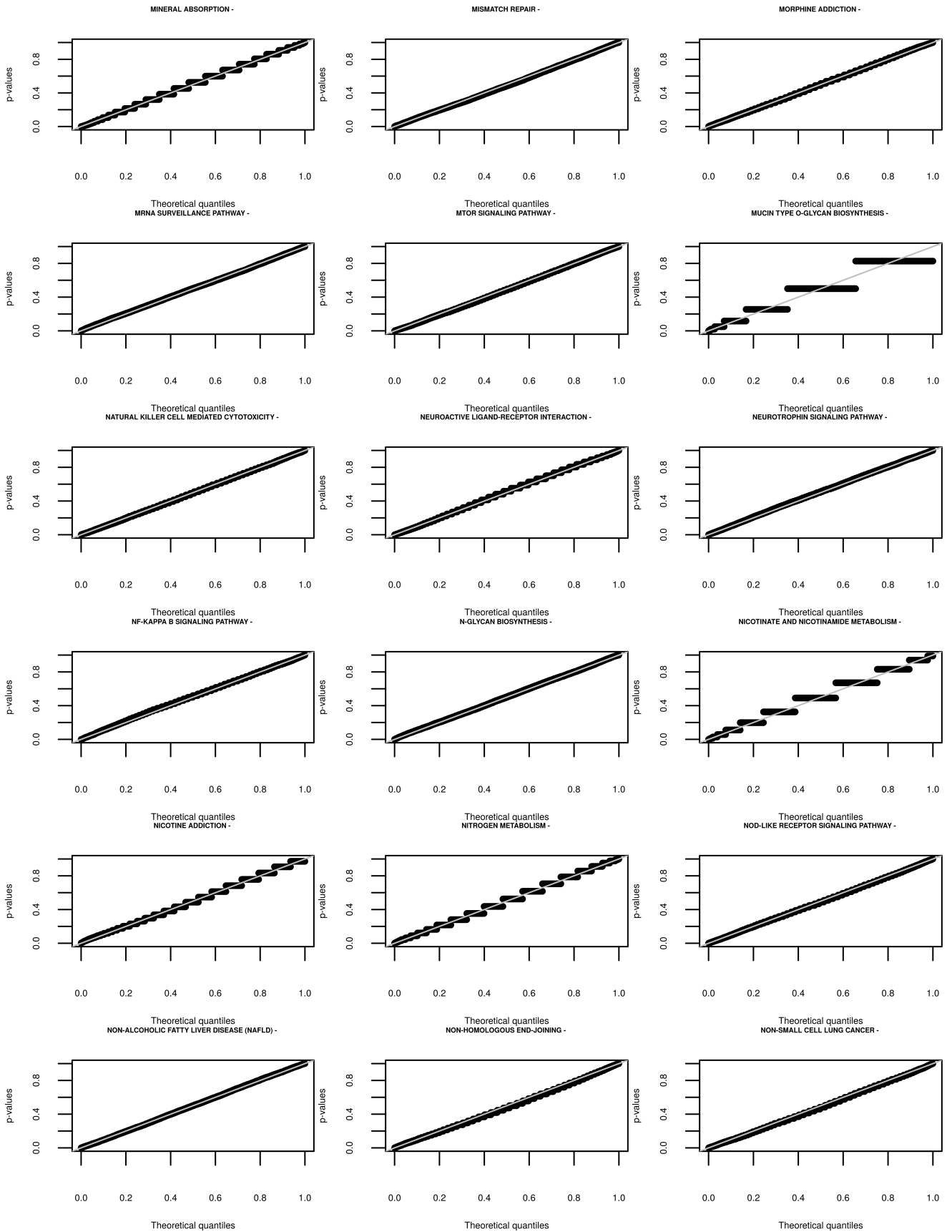


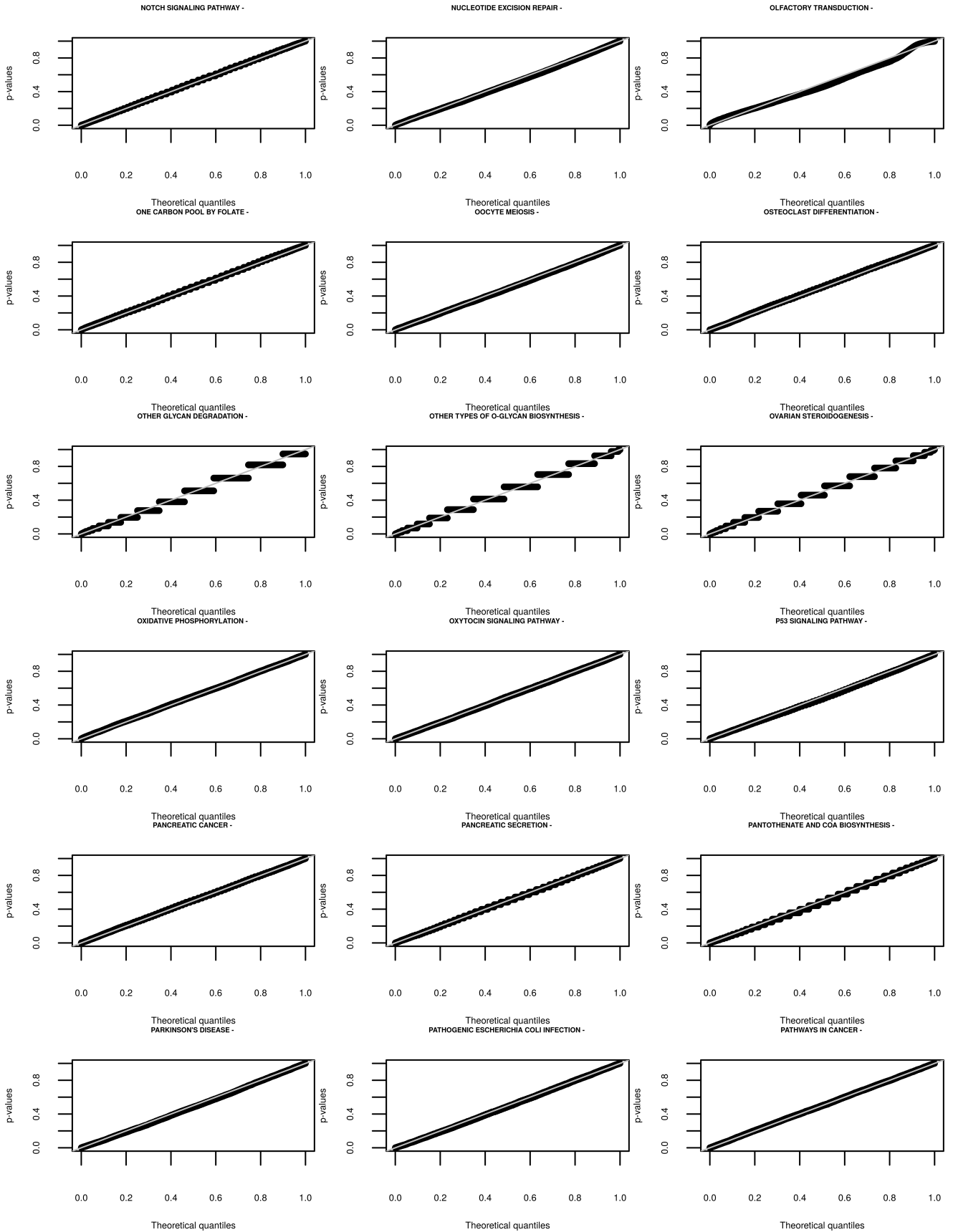


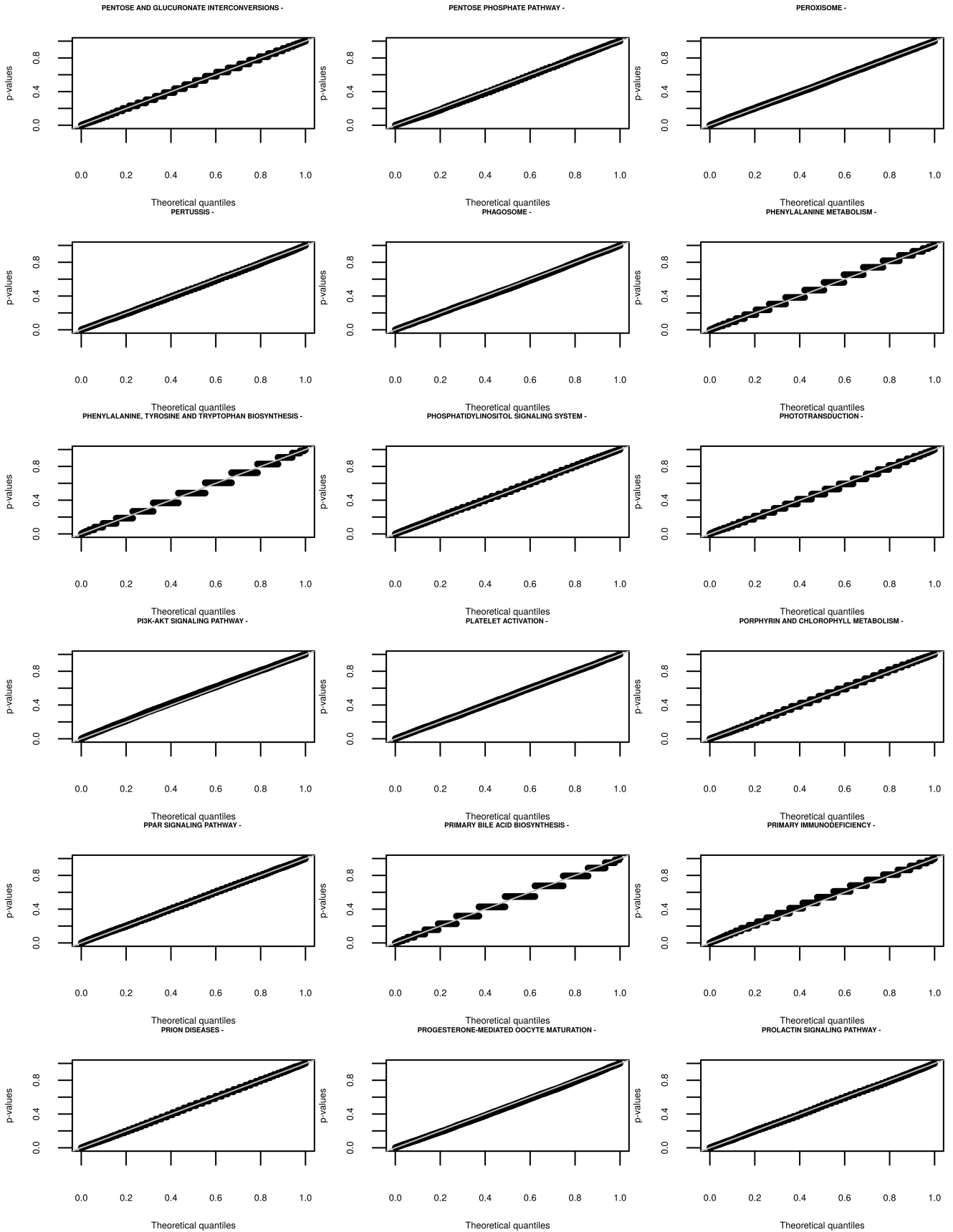


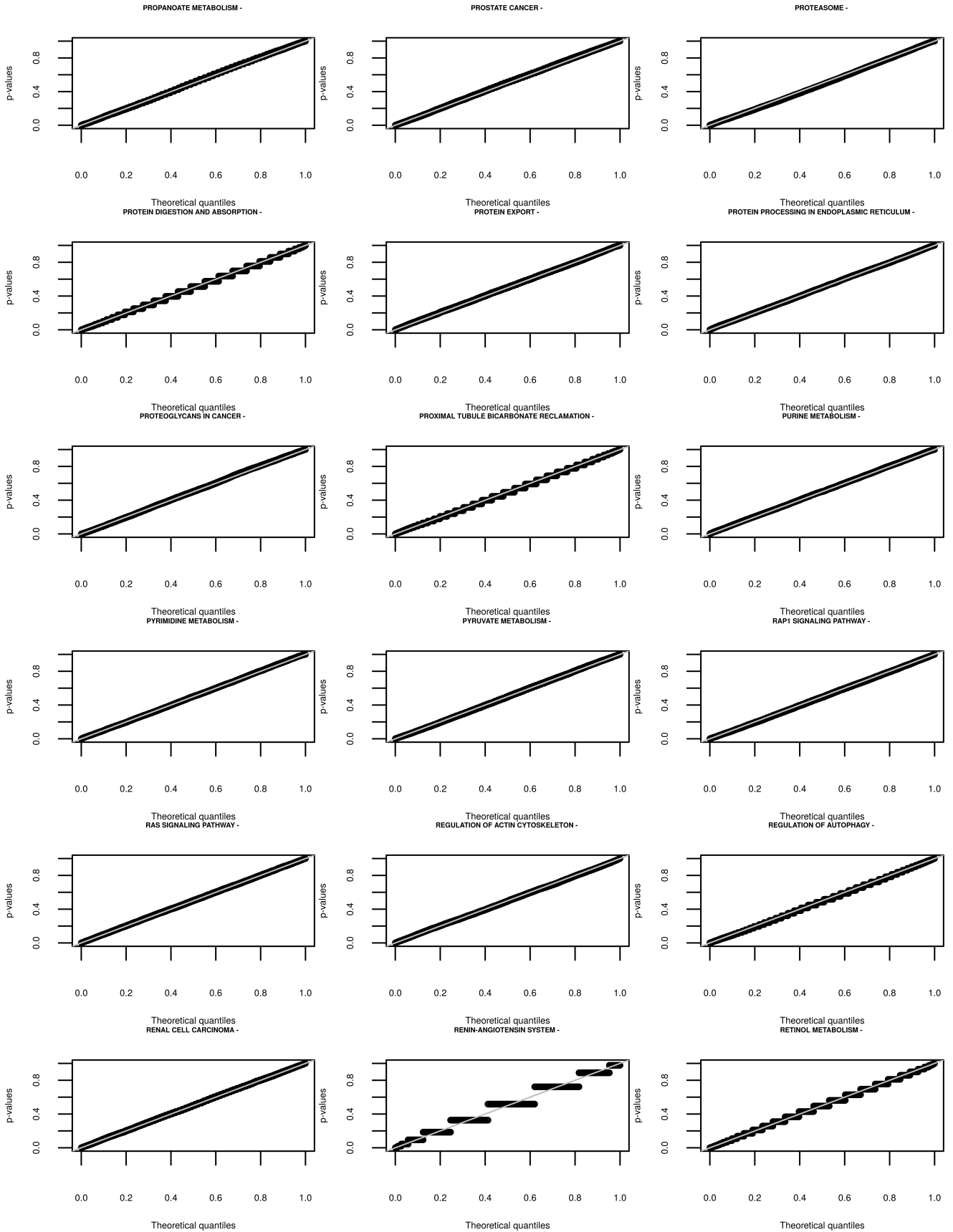


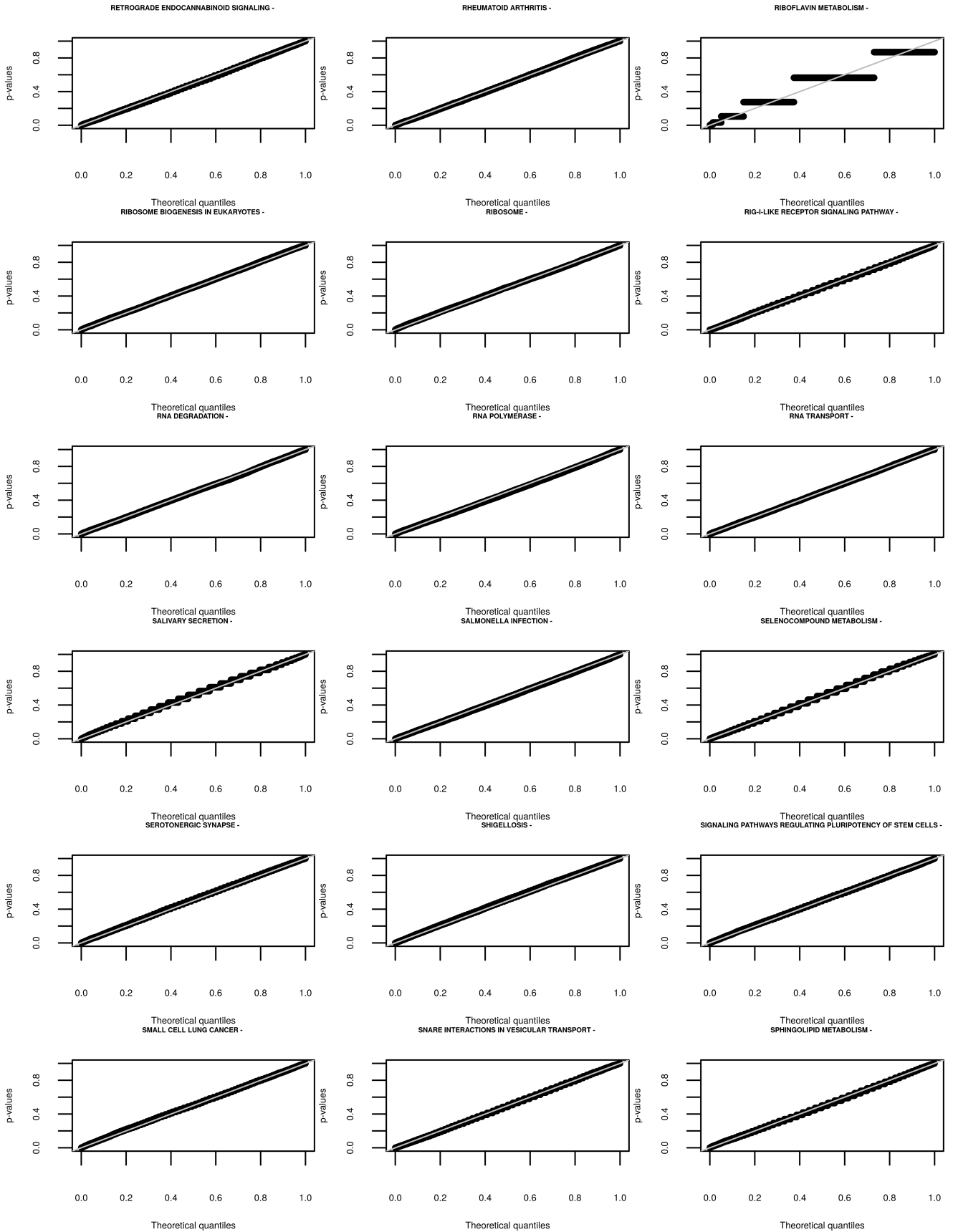




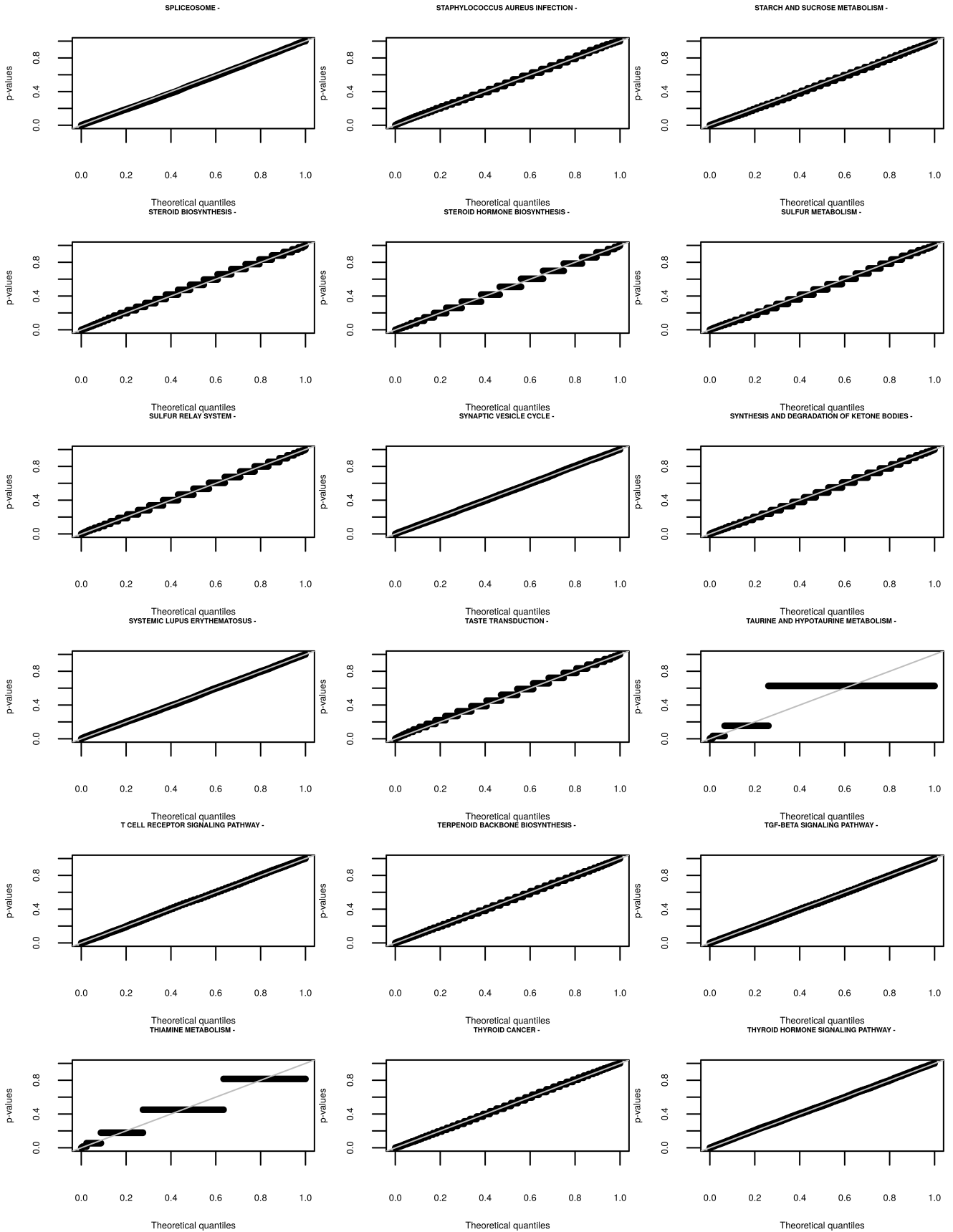






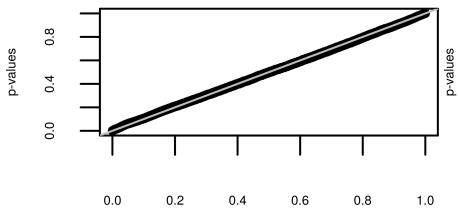




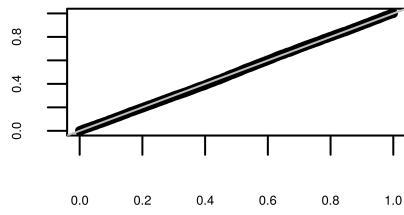




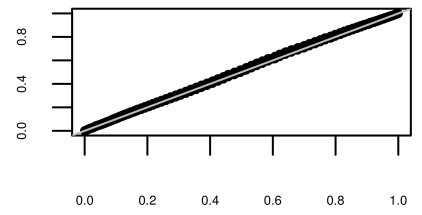
VIBRIO CHOLERAEE INFECTION -



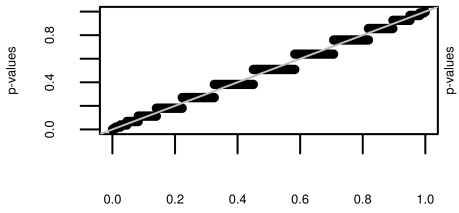
VIRAL CARCINOGENESIS -



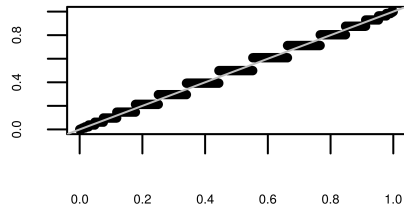
VIRAL MYOCARDITIS -



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