t2d-samafs phenotype distribution

2025-01-23

Available traits:

- cystatin_c log transform
- a2h_ins log transform
- creatinine log transform
- adiponectin log transform
- leptin log transform
- chol log transform
- ldl log transform
- hdl log transform
- tg log transform
- bmi log transform
- hipc log transform
- wasitc log transform
- whr log transform
- dbp log transform
- height
- $fast_glu log transform$
- sbp log transform
- fast_ins log transform
- a2h_glu log transform
- weight log transform

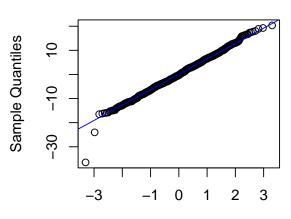
[1] "height"

Residuals for height

Freduency -40 -20 0 10

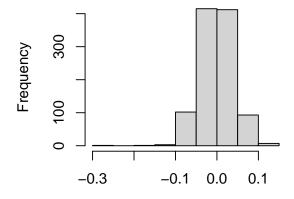
Residuals height

Residuals for height



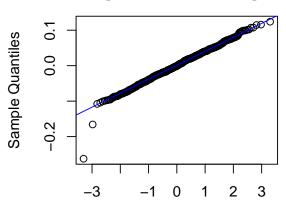
Theoretical Quantiles

Residuals for Log transformed height



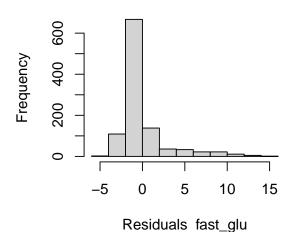
Residuals log height

Residuals for Log transformed height

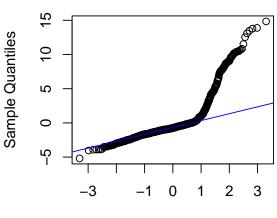


Theoretical Quantiles

Residuals for fast_glu

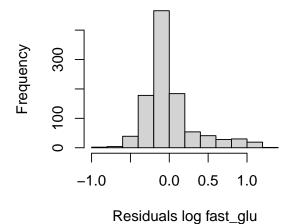


Residuals for fast_glu

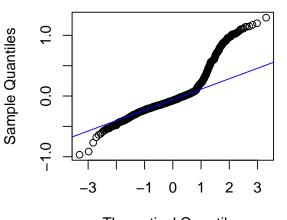


Theoretical Quantiles

Residuals for Log transformed fast_glu



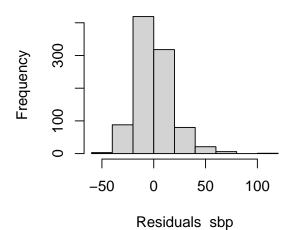
Residuals for Log transformed fast_glu



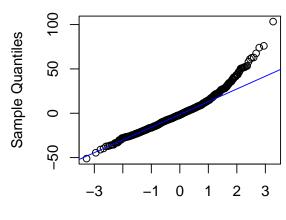
Theoretical Quantiles

[1] "sbp"

Residuals for sbp

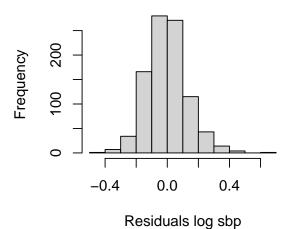


Residuals for sbp

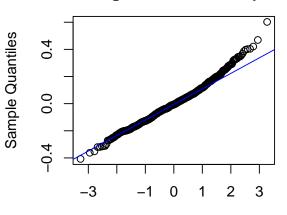


Theoretical Quantiles

Residuals for Log transformed sbp



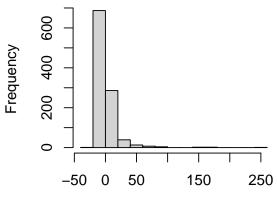
Residuals for Log transformed sbp



Theoretical Quantiles

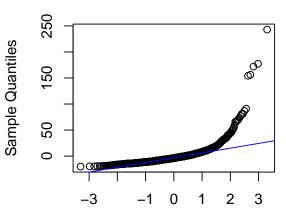
[1] "fast_ins"

Residuals for fast_ins



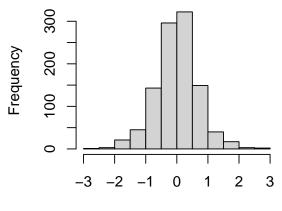
Residuals fast_ins

Residuals for fast_ins



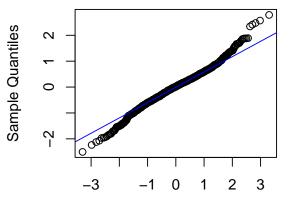
Theoretical Quantiles

Residuals for Log transformed fast_ins



Residuals log fast_ins

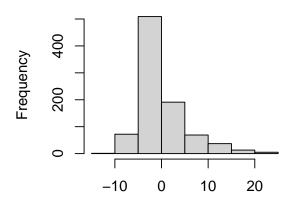
Residuals for Log transformed fast_ins



Theoretical Quantiles

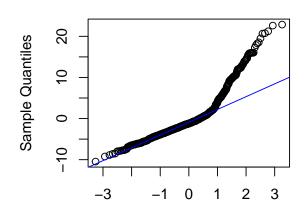
[1] "a2h_glu"

Residuals for a2h_glu



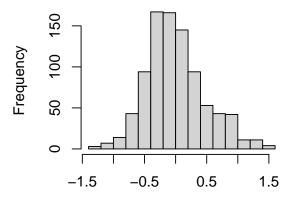
Residuals a2h_glu

Residuals for a2h_glu



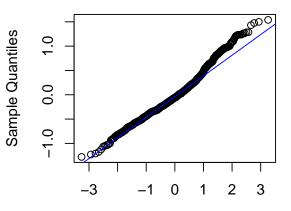
Theoretical Quantiles

Residuals for Log transformed a2h_glu



Residuals log a2h_glu

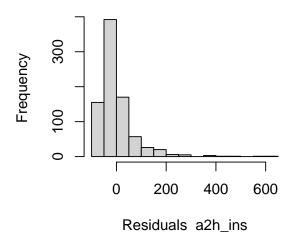
Residuals for Log transformed a2h_glu



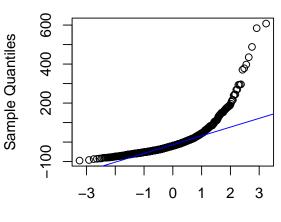
Theoretical Quantiles

[1] "a2h_ins"

Residuals for a2h_ins

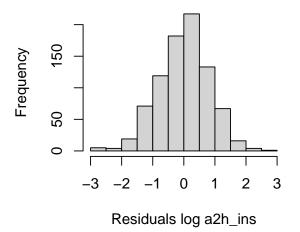


Residuals for a2h_ins

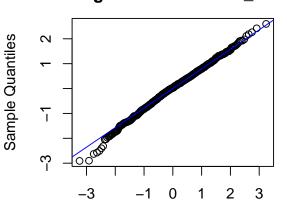


Theoretical Quantiles

Residuals for Log transformed a2h_ins



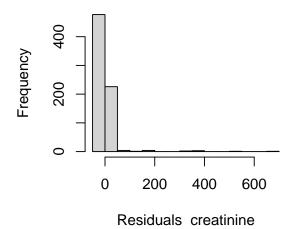
Residuals for Log transformed a2h_ins



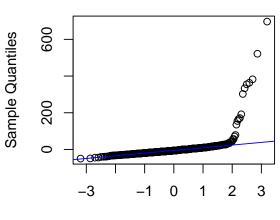
Theoretical Quantiles

[1] "creatinine"

Residuals for creatinine

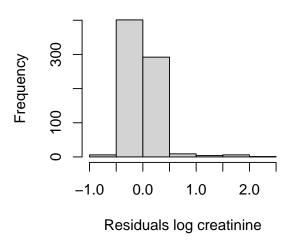


Residuals for creatinine

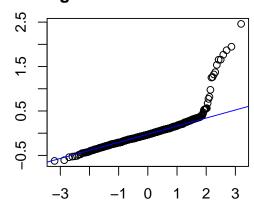


Theoretical Quantiles

Residuals for Log transformed creatinine



Residuals for Log transformed creatinine



Theoretical Quantiles

[1] "adiponectin"

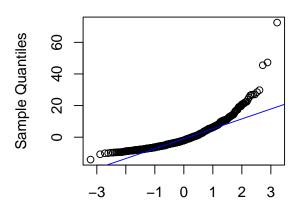
Sample Quantiles

Residuals for adiponectin

Academic Services (1988) Academic Services (19

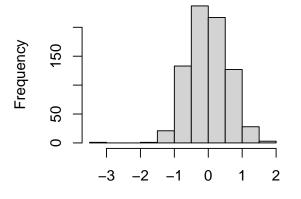
Residuals adiponectin

Residuals for adiponectin



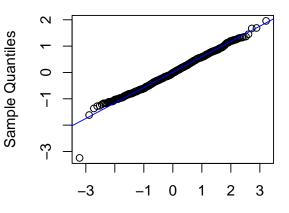
Theoretical Quantiles

Residuals for Log transformed adiponectin



Residuals log adiponectin

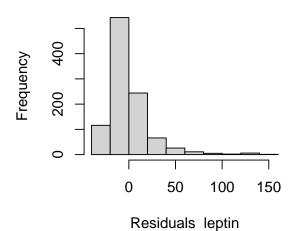
Residuals for Log transformed adiponectin



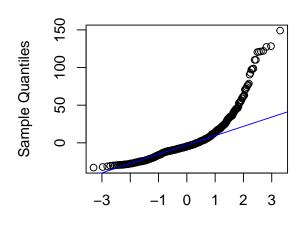
Theoretical Quantiles

[1] "leptin"

Residuals for leptin

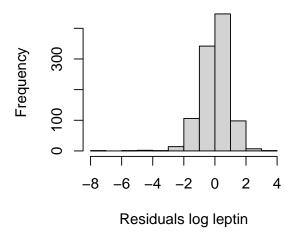


Residuals for leptin

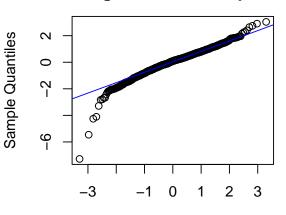


Theoretical Quantiles

Residuals for Log transformed leptin



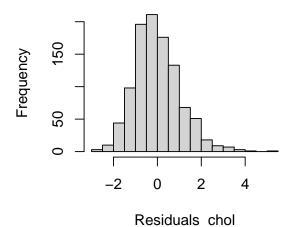
Residuals for Log transformed leptin



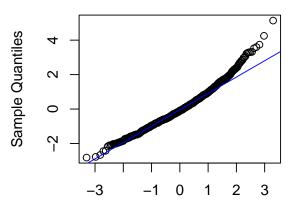
Theoretical Quantiles

[1] "chol"

Residuals for chol

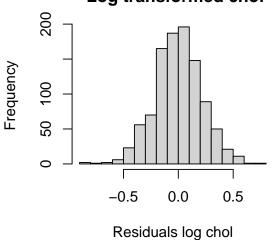


Residuals for chol

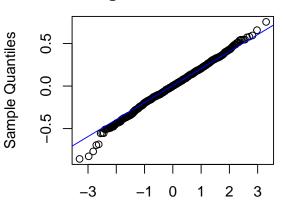


Theoretical Quantiles

Residuals for Log transformed chol



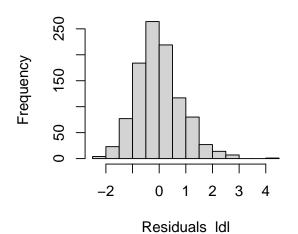
Residuals for Log transformed chol



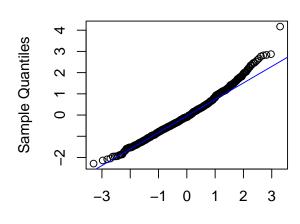
Theoretical Quantiles

[1] "ldl"

Residuals for Idl

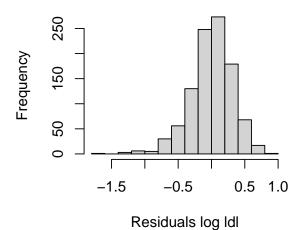


Residuals for Idl

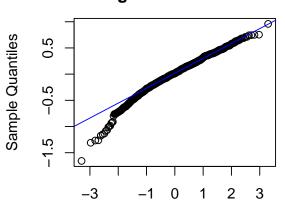


Theoretical Quantiles

Residuals for Log transformed Idl



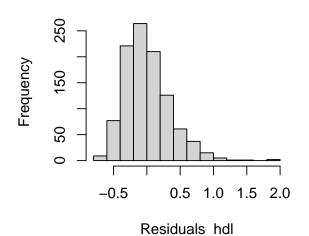
Residuals for Log transformed Idl



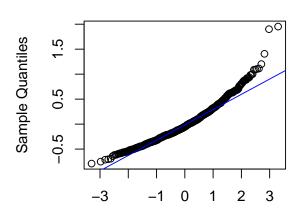
Theoretical Quantiles

[1] "hdl"

Residuals for hdl

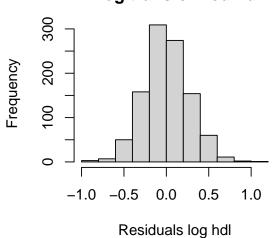


Residuals for hdl

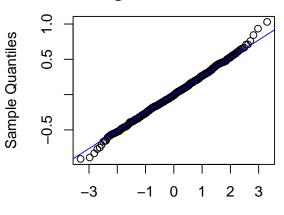


Theoretical Quantiles

Residuals for Log transformed hdl



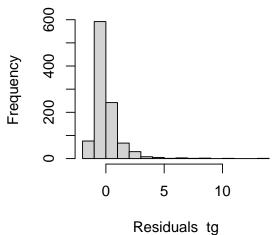
Residuals for Log transformed hdl



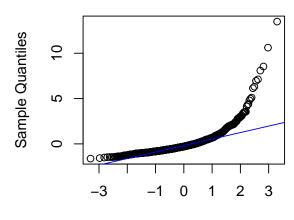
Theoretical Quantiles

[1] "tg"

Residuals for tg

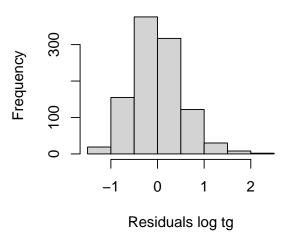


Residuals for tg

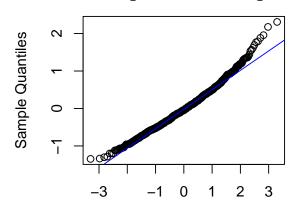


Theoretical Quantiles

Residuals for Log transformed tg



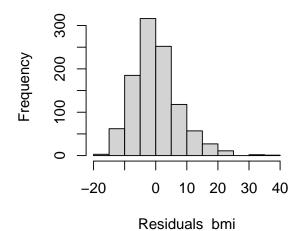
Residuals for Log transformed tg



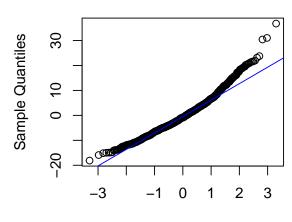
Theoretical Quantiles

[1] "bmi"

Residuals for bmi

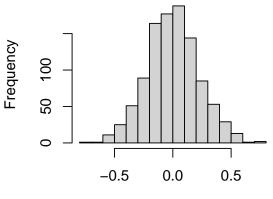


Residuals for bmi



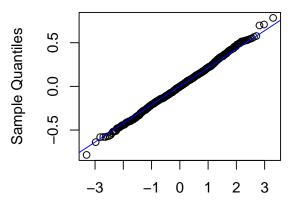
Theoretical Quantiles

Residuals for Log transformed bmi



Residuals log bmi

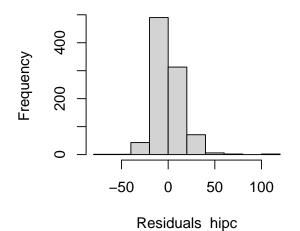
Residuals for Log transformed bmi



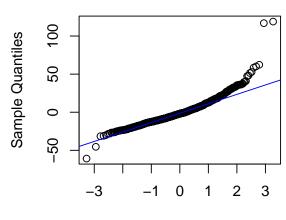
Theoretical Quantiles

[1] "hipc"

Residuals for hipc

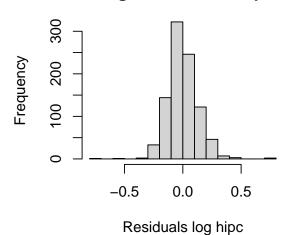


Residuals for hipc

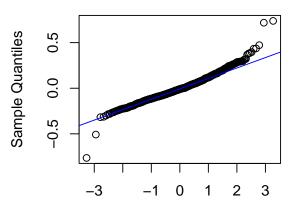


Theoretical Quantiles

Residuals for Log transformed hipc



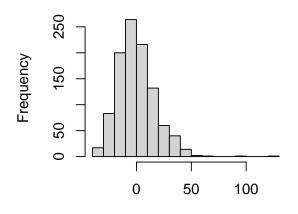
Residuals for Log transformed hipc



Theoretical Quantiles

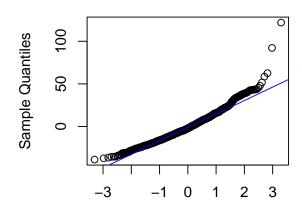
[1] "waistc"

Residuals for waistc



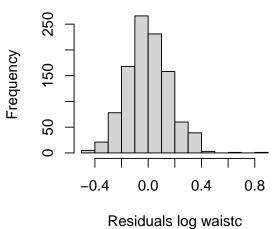
Residuals waistc

Residuals for waistc



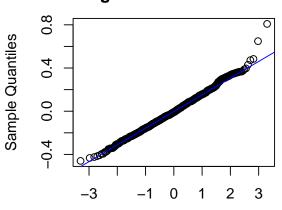
Theoretical Quantiles

Residuals for Log transformed waistc



ŭ

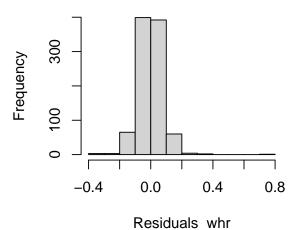
Residuals for Log transformed waistc



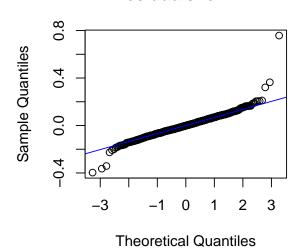
Theoretical Quantiles

[1] "whr"

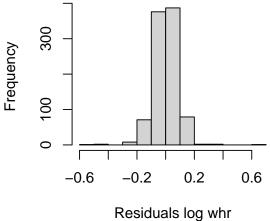
Residuals for whr



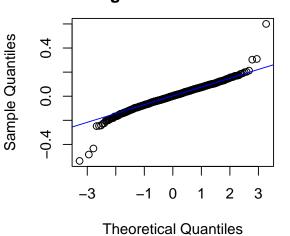
Residuals for whr



Residuals for Log transformed whr

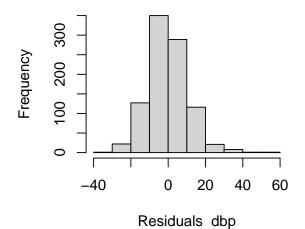


Residuals for Log transformed whr

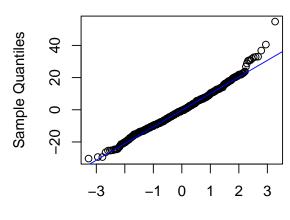


[1] "dbp"

Residuals for dbp

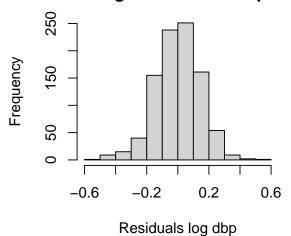


Residuals for dbp

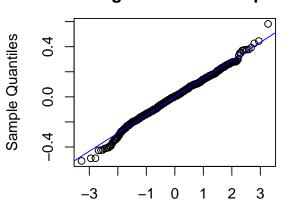


Theoretical Quantiles

Residuals for Log transformed dbp



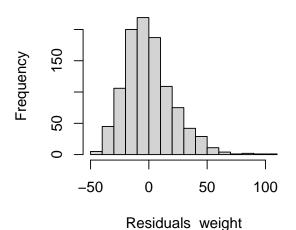
Residuals for Log transformed dbp



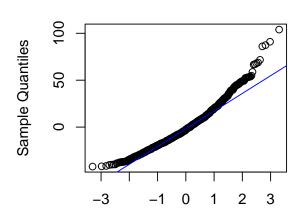
Theoretical Quantiles

[1] "weight"

Residuals for weight

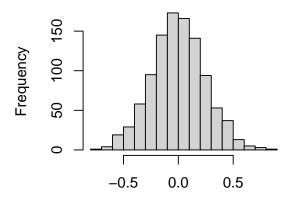


Residuals for weight



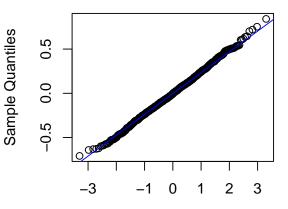
Theoretical Quantiles

Residuals for Log transformed weight



Residuals log weight

Residuals for Log transformed weight



Theoretical Quantiles

```
cleaned_pheno <- pheno %>%
  filter(!is.na(cystatin_c), !is.nan(cystatin_c), !is.infinite(cystatin_c)) %>%
  filter(!is.na(sex), !is.na(age))

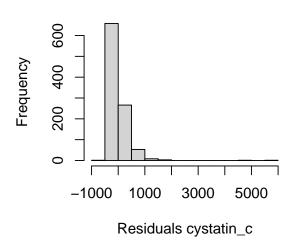
par(mfrow = c(1, 2))
obj <- lm(as.numeric(cystatin_c) ~ sex + age, data = cleaned_pheno)</pre>
```

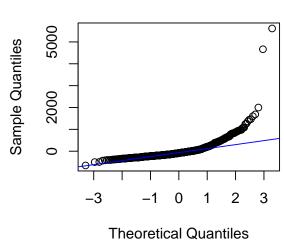
Warning in eval(predvars, data, env): NAs introduced by coercion

```
qqnorm(y2, main = "Residuals for cystatin_c")
qqline(y2, col = "blue")
```

Residuals for cystatin_c

$Residuals \ for \ cystatin_c$



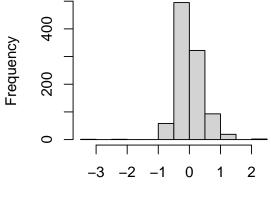


```
obj <- lm(log(as.numeric(cystatin_c)) ~ sex + age, data = cleaned_pheno)
```

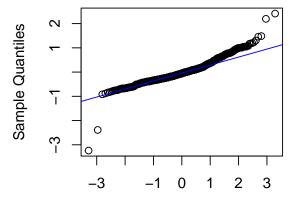
Warning in eval(predvars, data, env): NAs introduced by coercion

Residuals for log cystatin_c

Residuals for log cystatin_c







Theoretical Quantiles