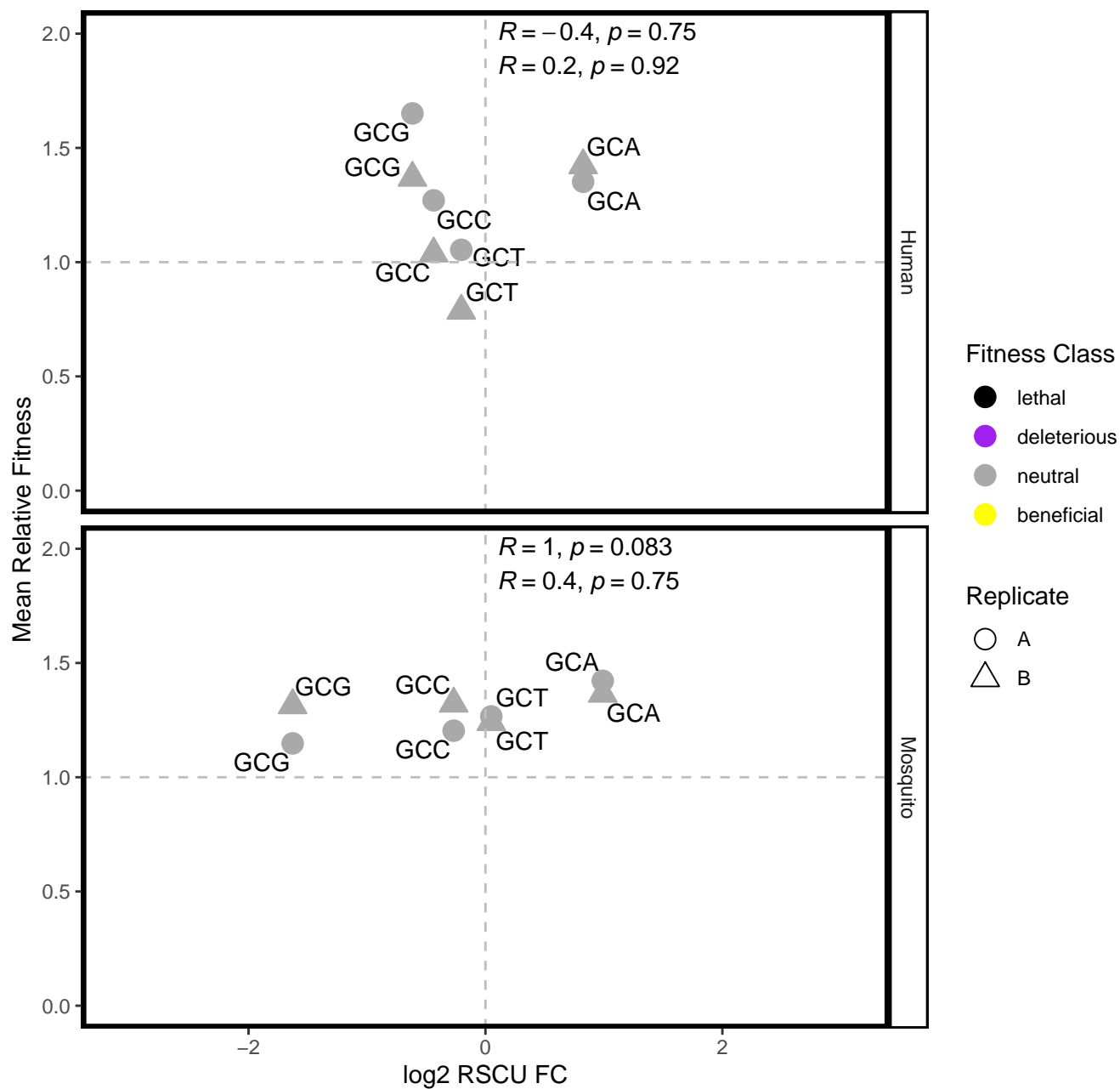


Ala



Arg

Mean Relative Fitness

log2 RSCU FC

Human

Mosquito

Fitness Class

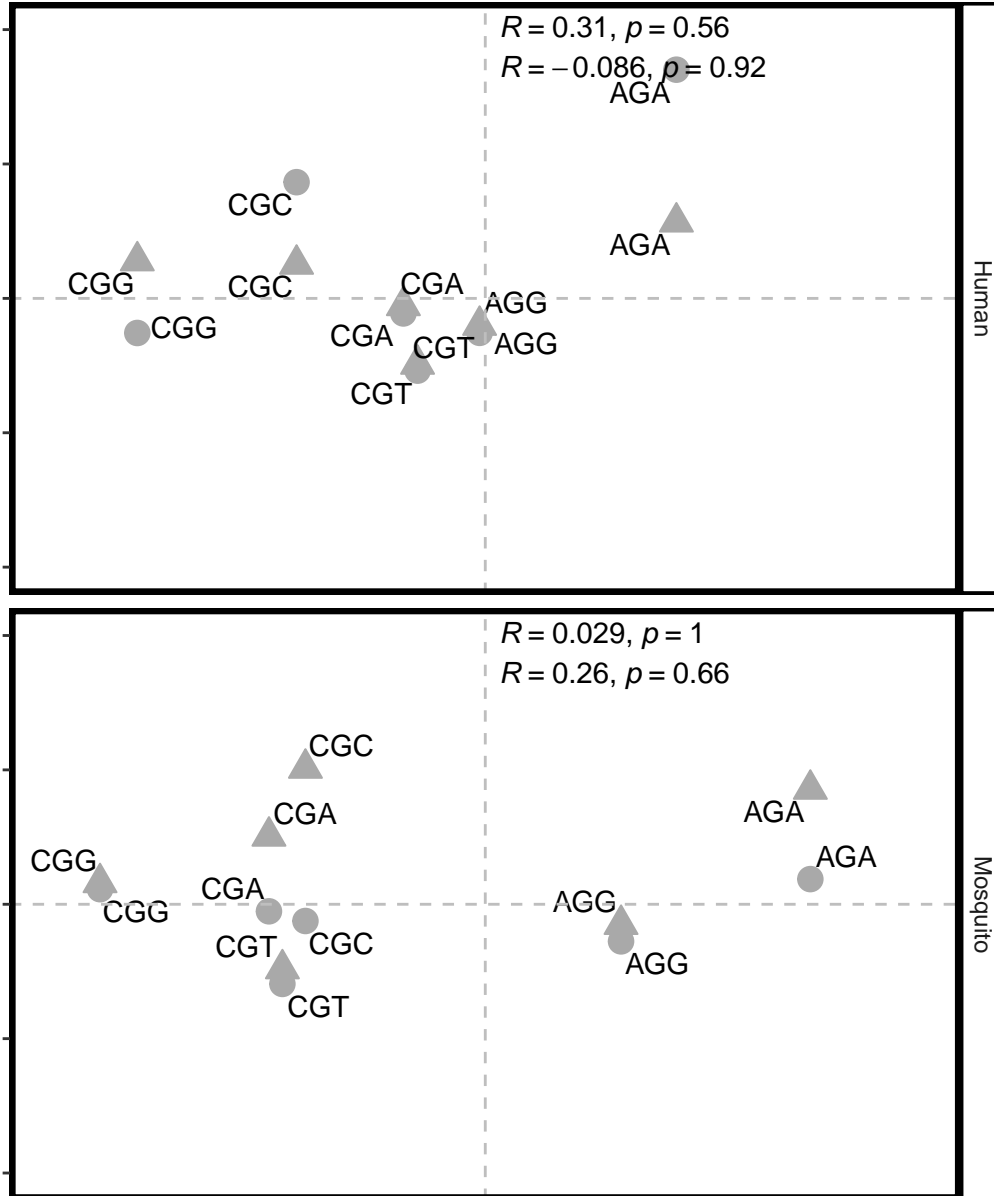
- lethal
- deleterious
- neutral
- beneficial

Replicate

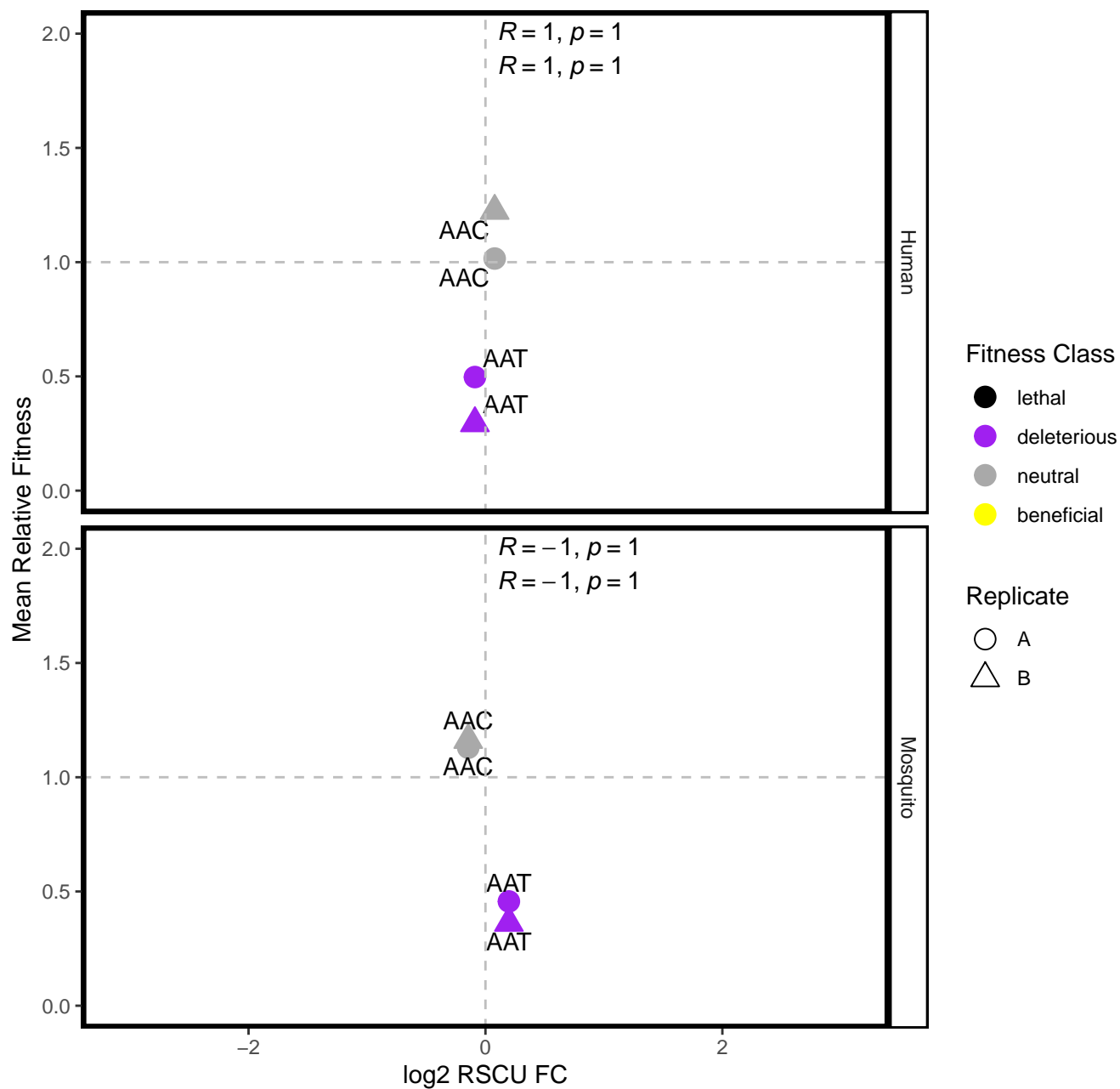
- A
- B

$R = 0.31, p = 0.56$   
 $R = -0.086, p = 0.92$

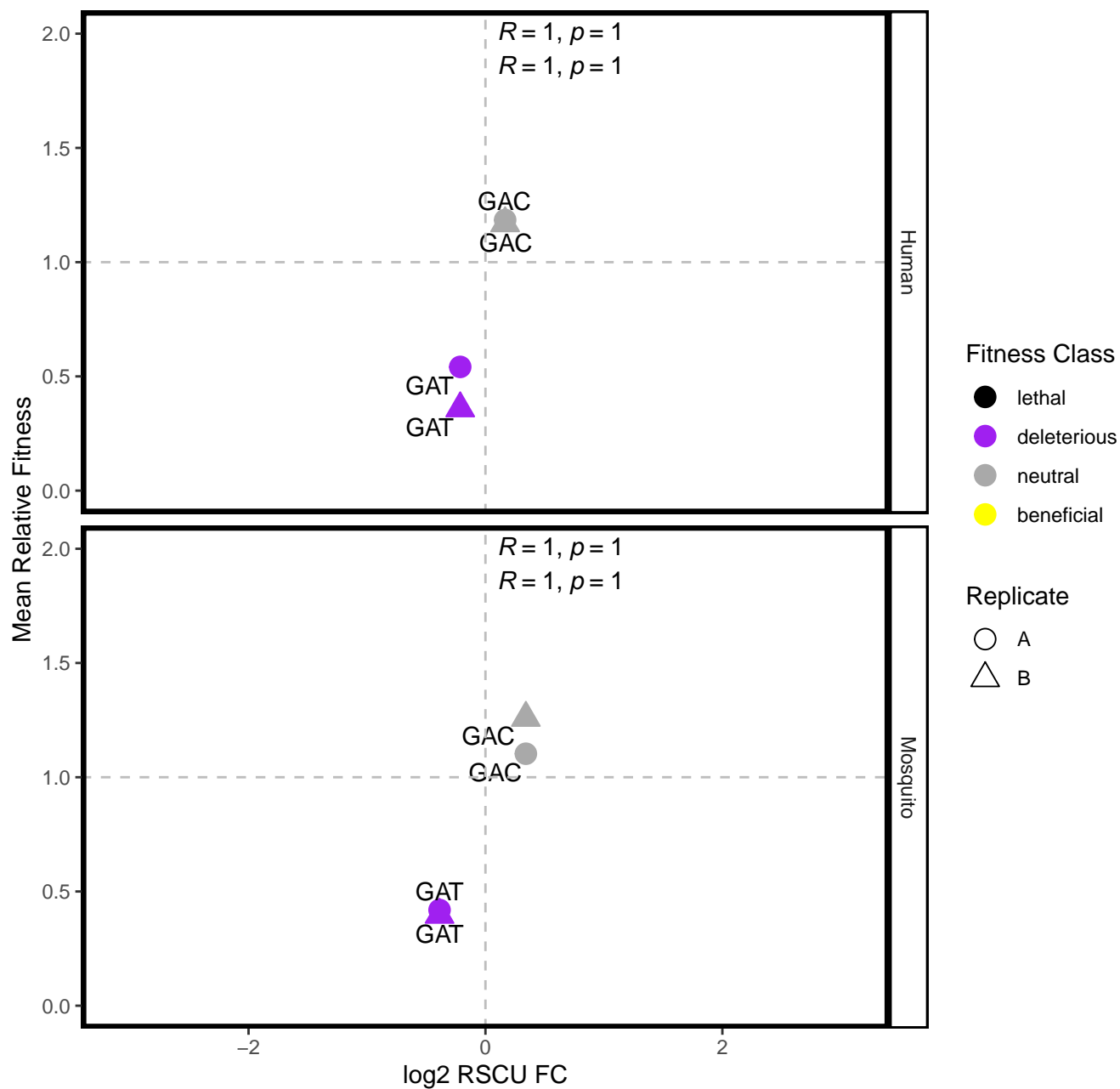
$R = 0.029, p = 1$   
 $R = 0.26, p = 0.66$



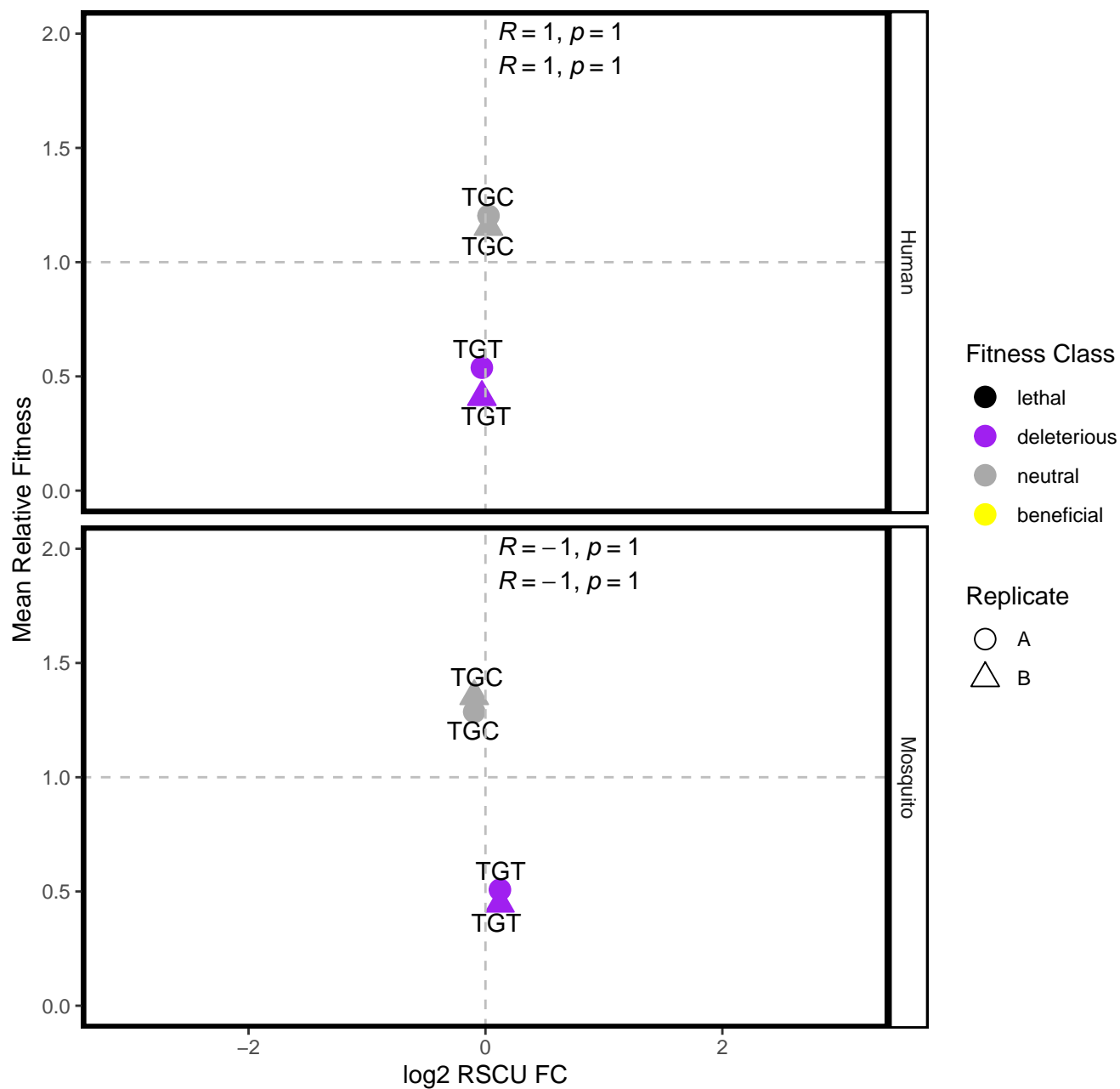
Asn



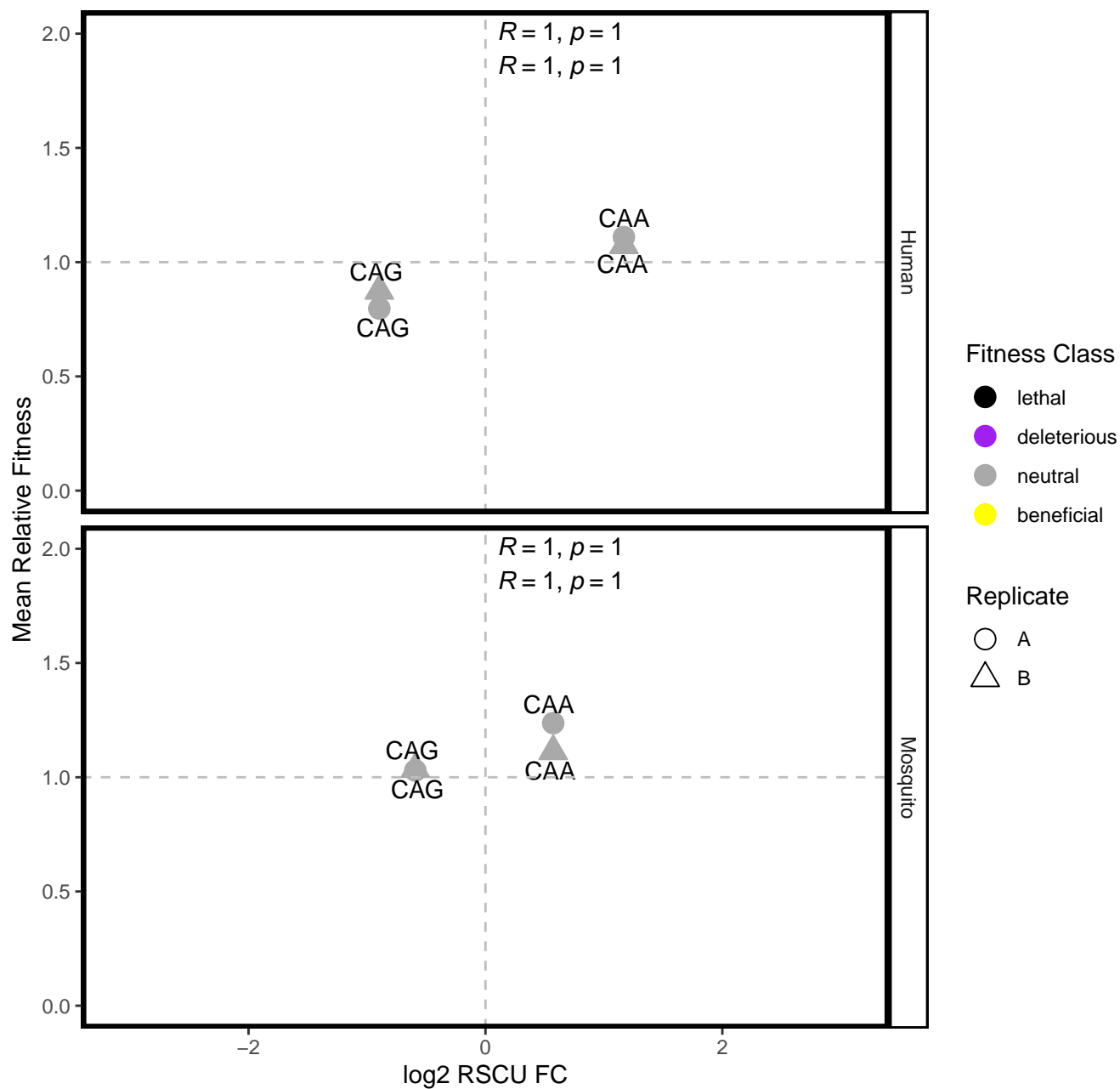
Asp



Cys

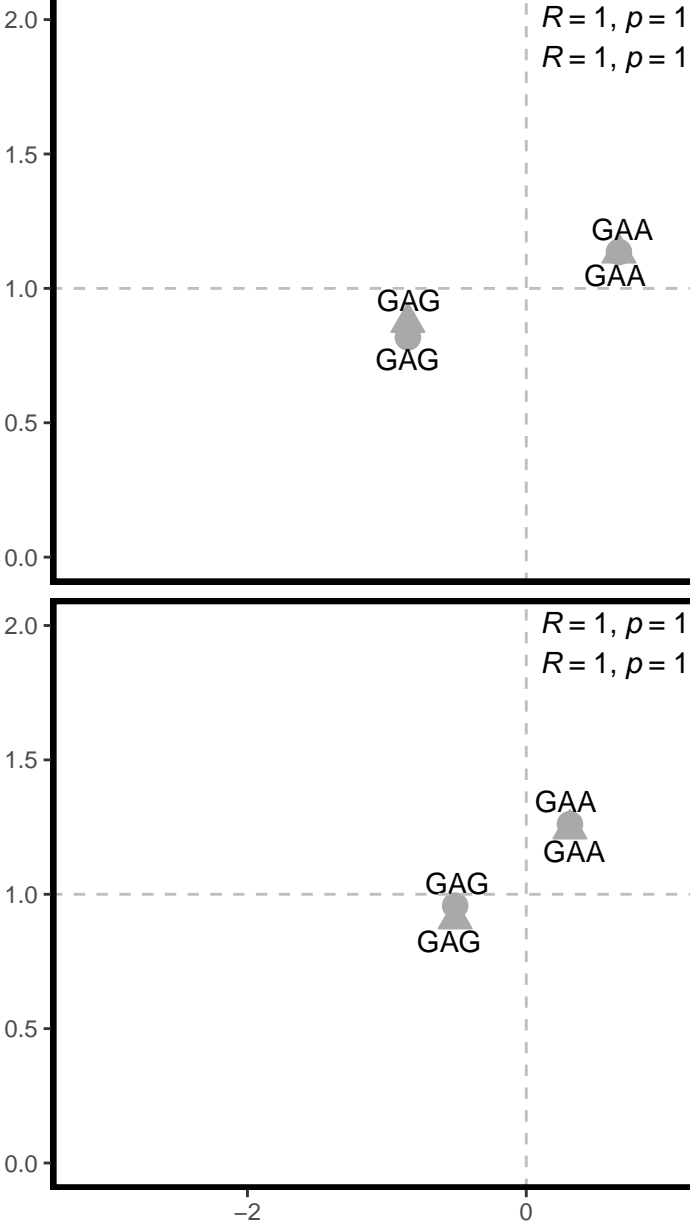


Gln



Glu

Mean Relative Fitness



Fitness Class

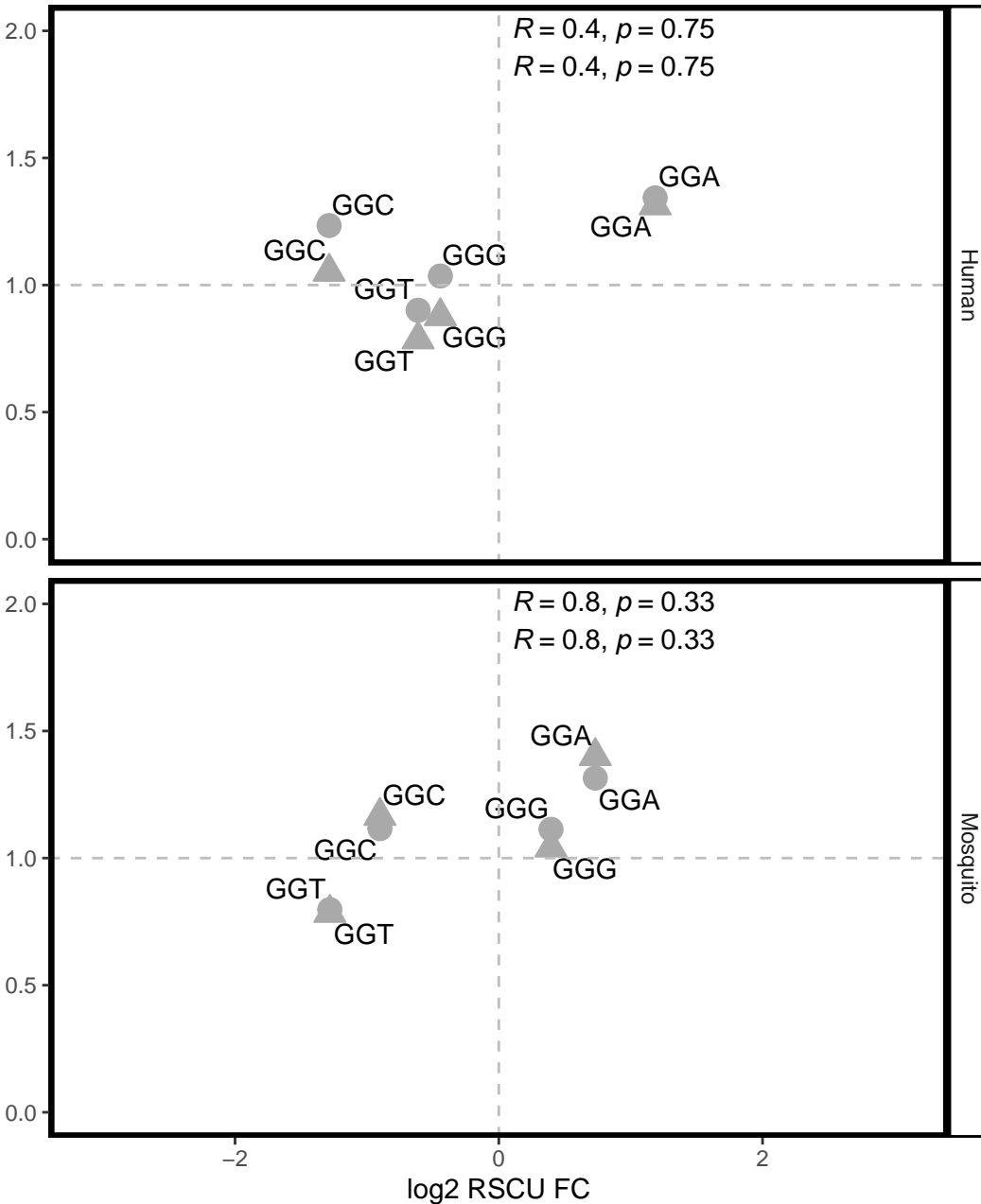
- lethal
- deleterious
- neutral
- beneficial

Replicate

- A
- B

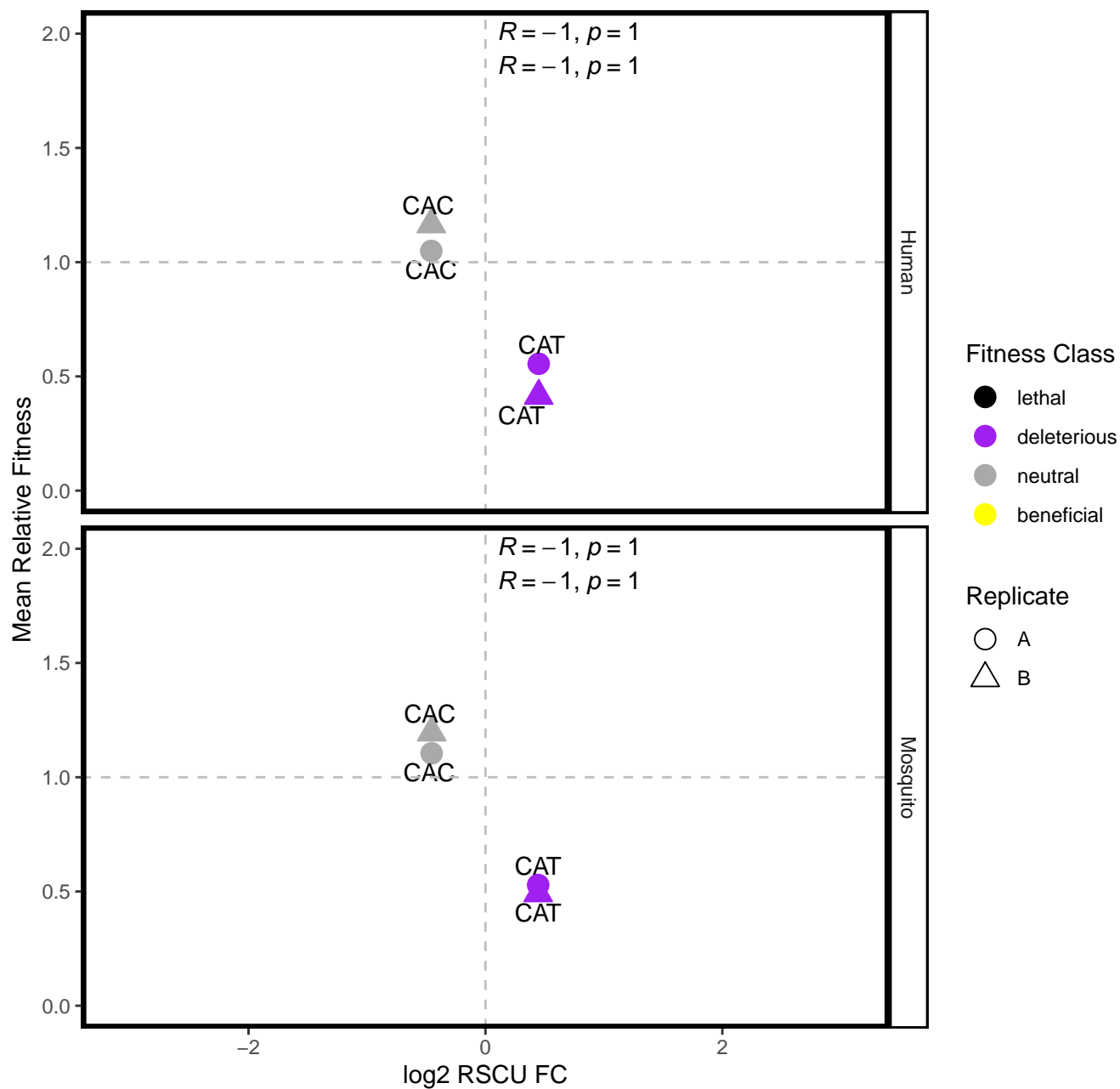
Gly

Mean Relative Fitness



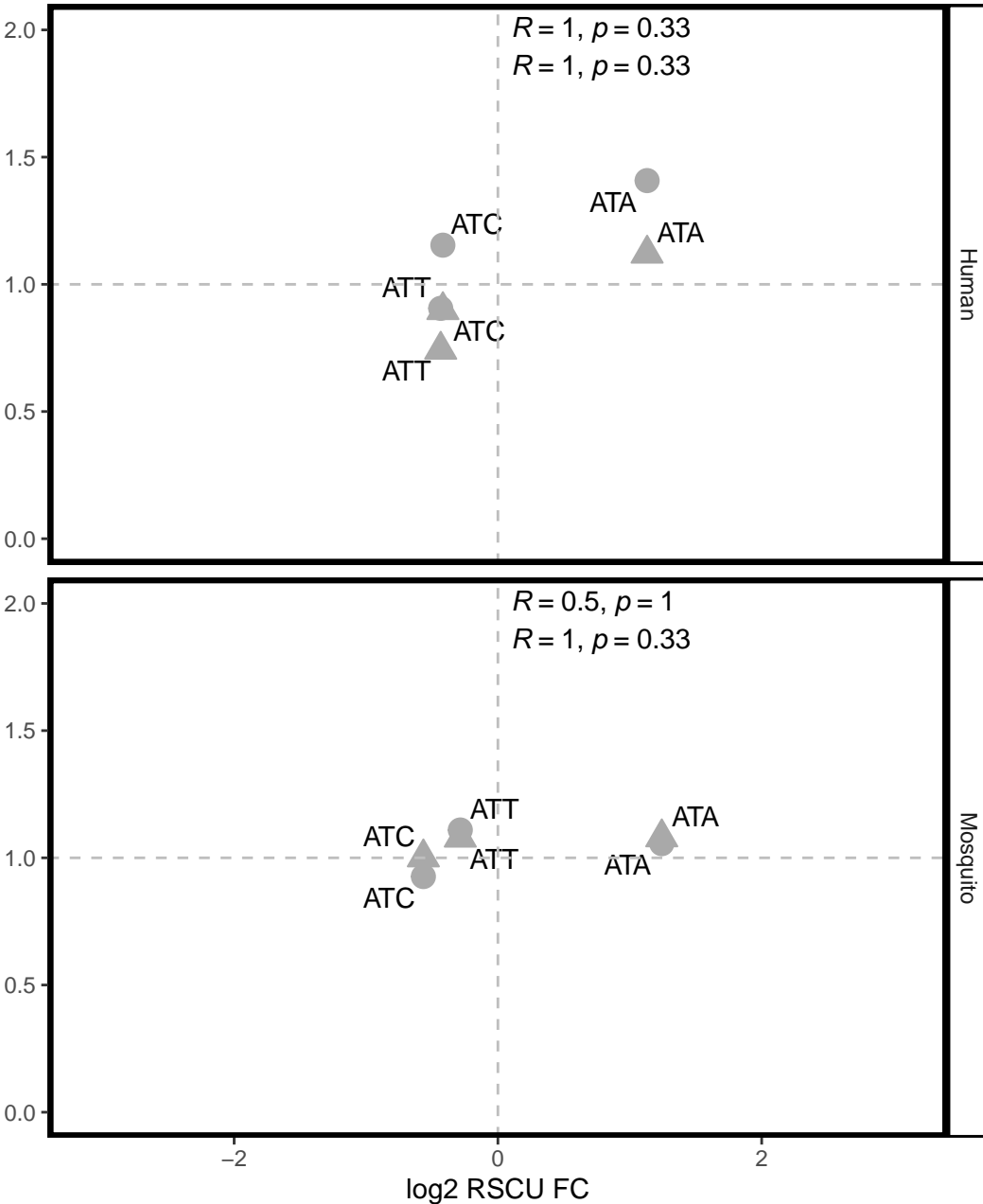


His



Ile

Mean Relative Fitness



Leu

Mean Relative Fitness

$R = -0.029, p = 1$   
 $R = 0.14, p = 0.8$

Human

Fitness Class

- lethal
- deleterious
- neutral
- beneficial

Replicate

- A
- △ B

$R = -0.086, p = 0.92$   
 $R = -0.086, p = 0.92$

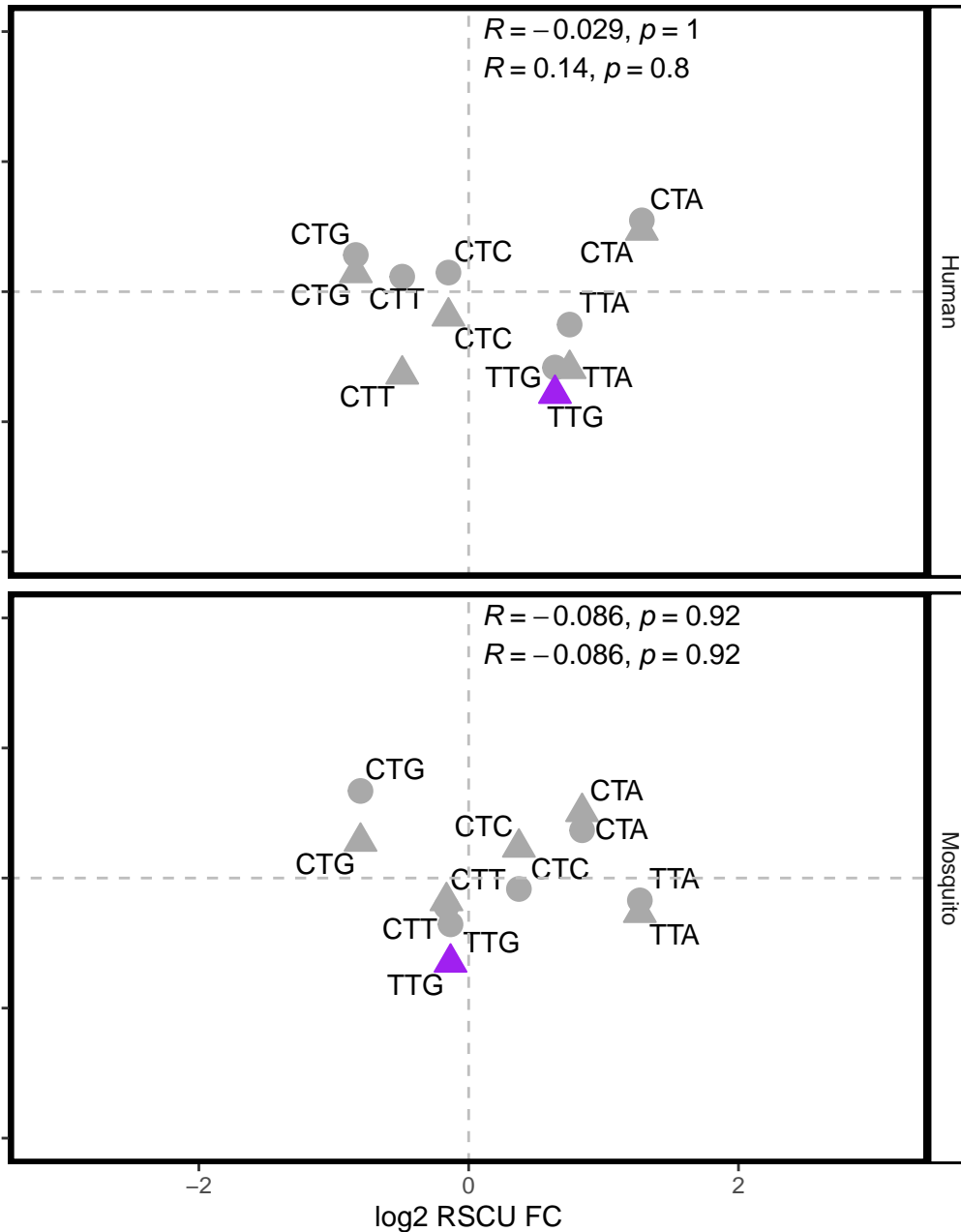
Mosquito

-2

0

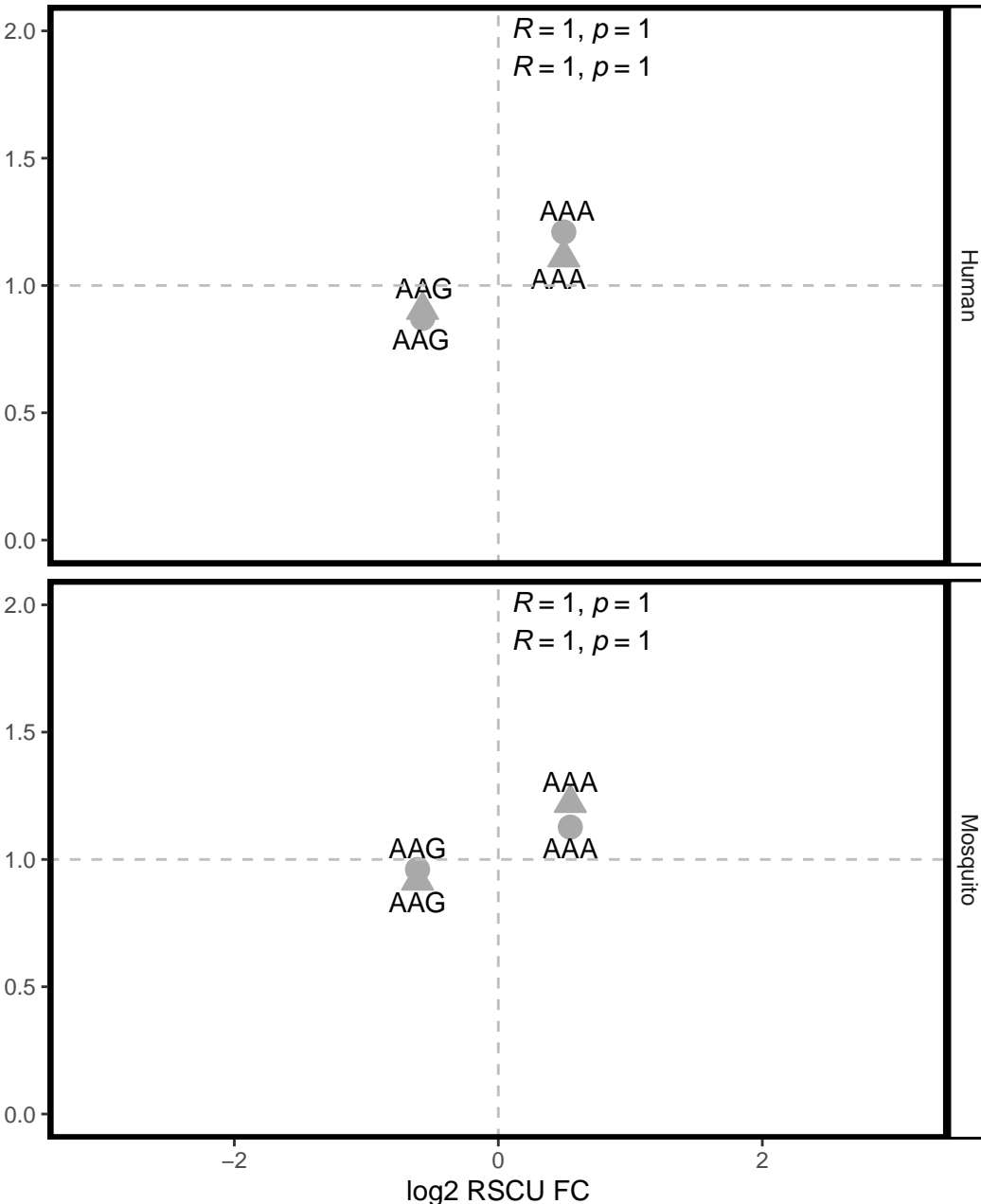
2

$\log_2$  RSCU FC



Lys

Mean Relative Fitness



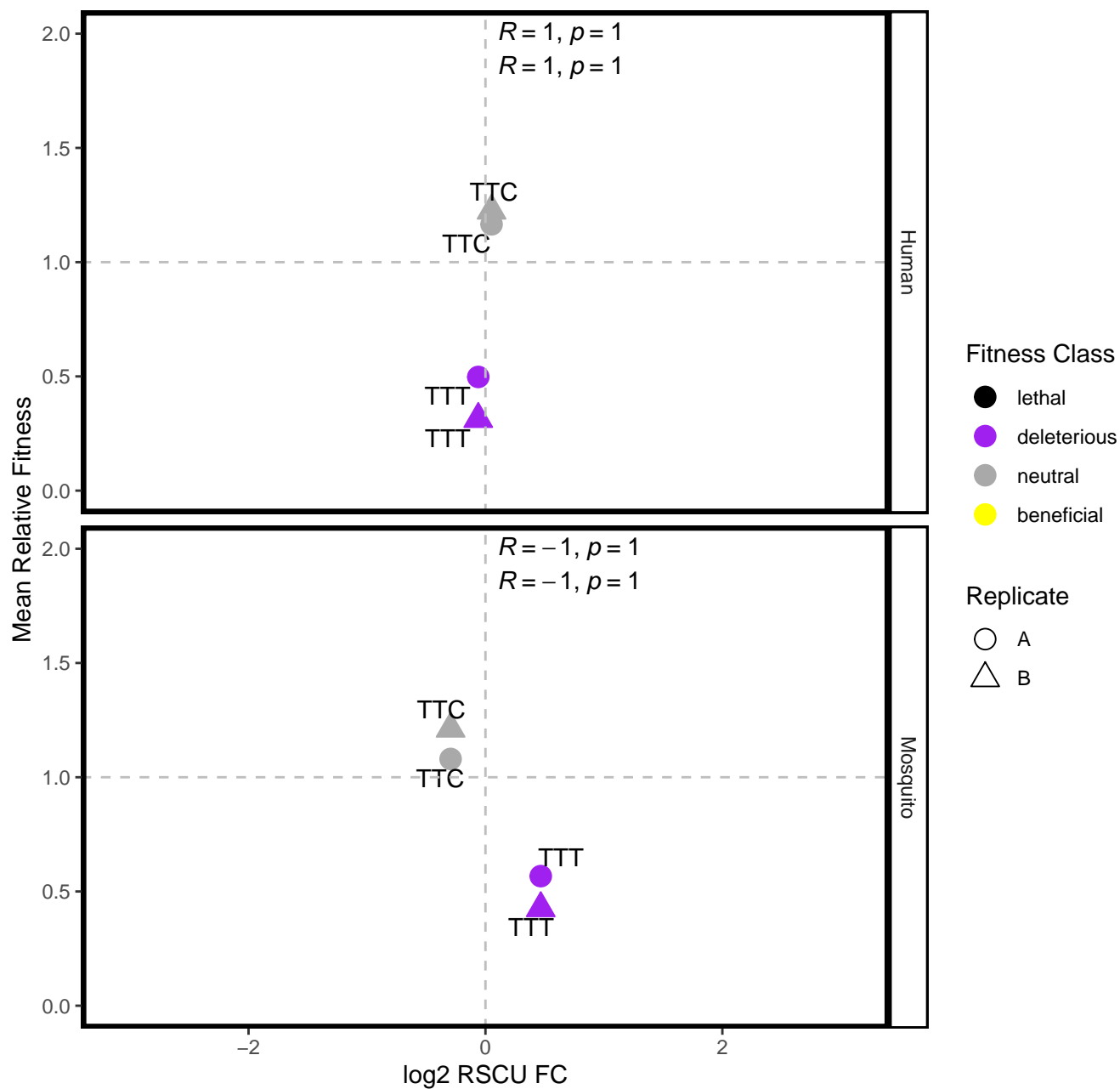
Fitness Class

- lethal
- deleterious
- neutral
- beneficial

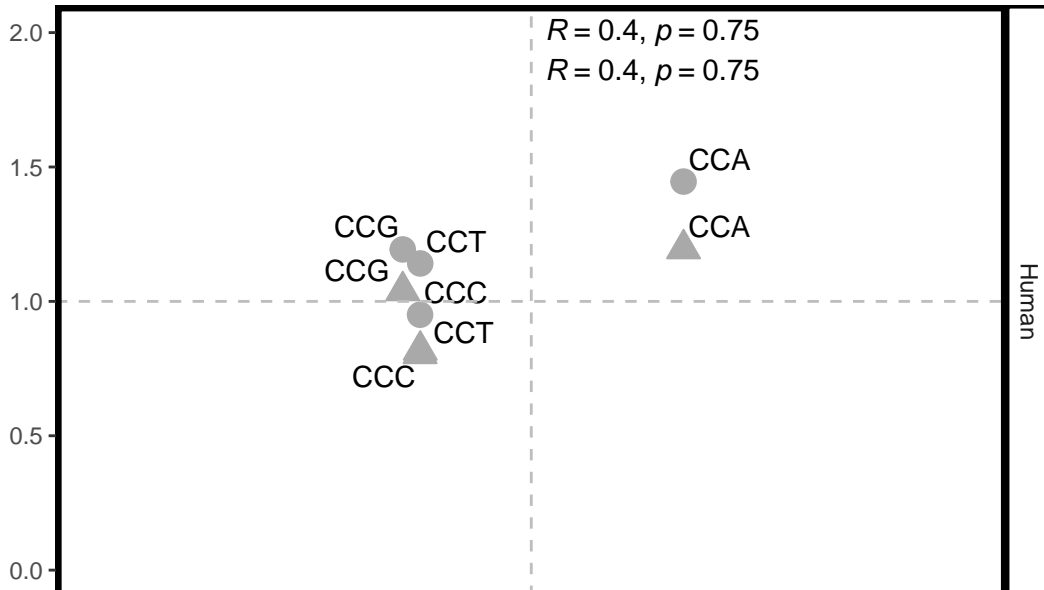
Replicate

- A
- B

Phe



Pro



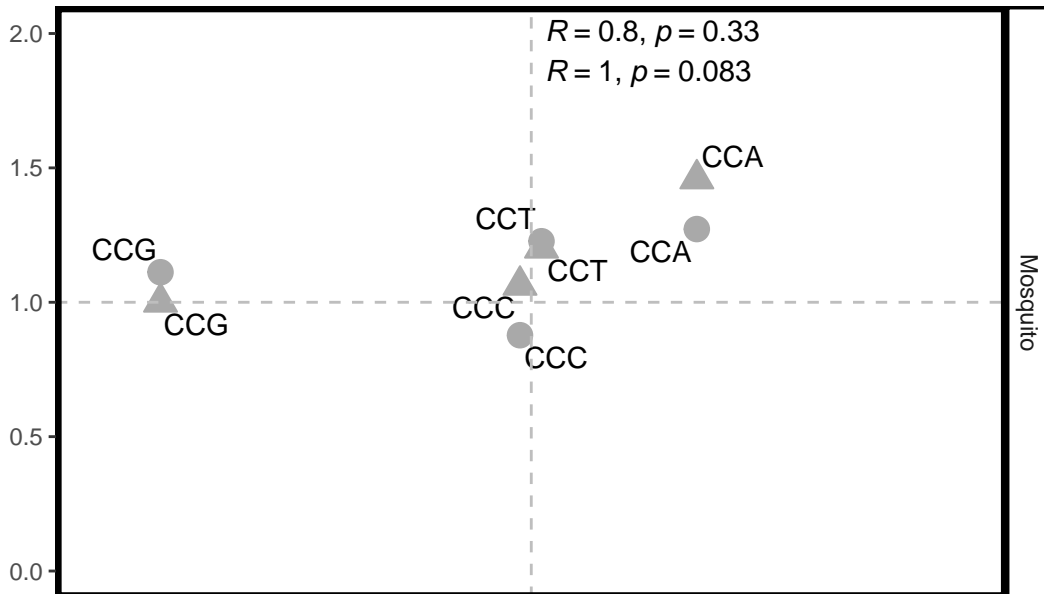
Fitness Class

- lethal
- deleterious
- neutral
- beneficial

Replicate

- A
- B

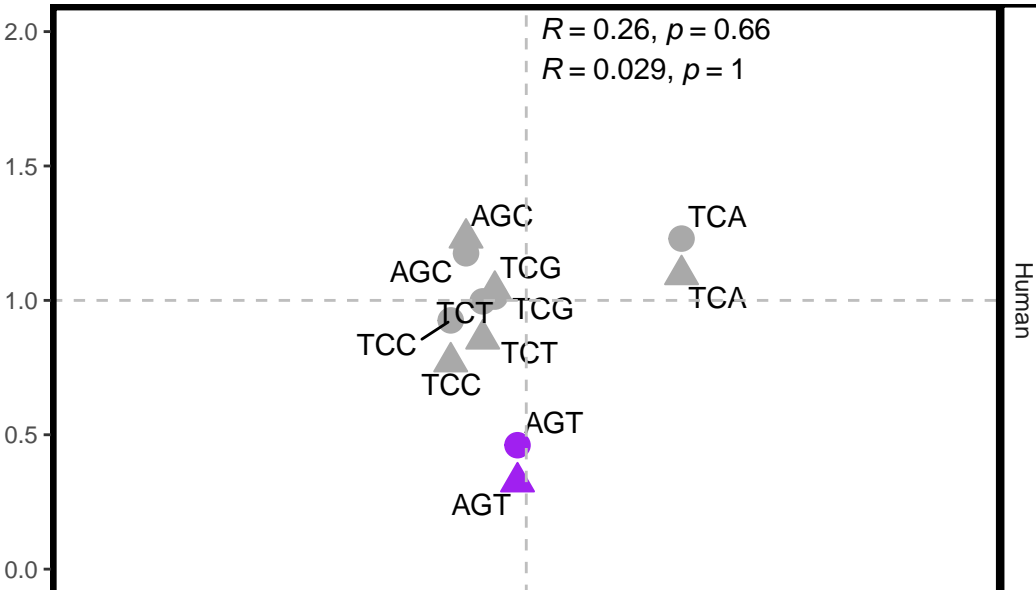
Mean Relative Fitness



log2 RSCU FC

Ser

Mean Relative Fitness

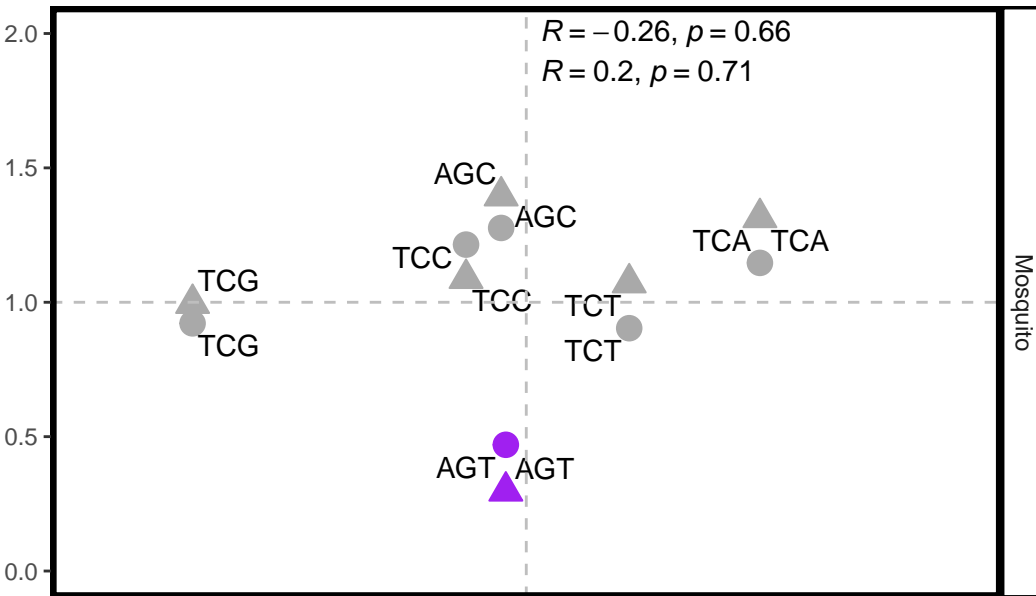


Fitness Class

- lethal
- deleterious
- neutral
- beneficial

Replicate

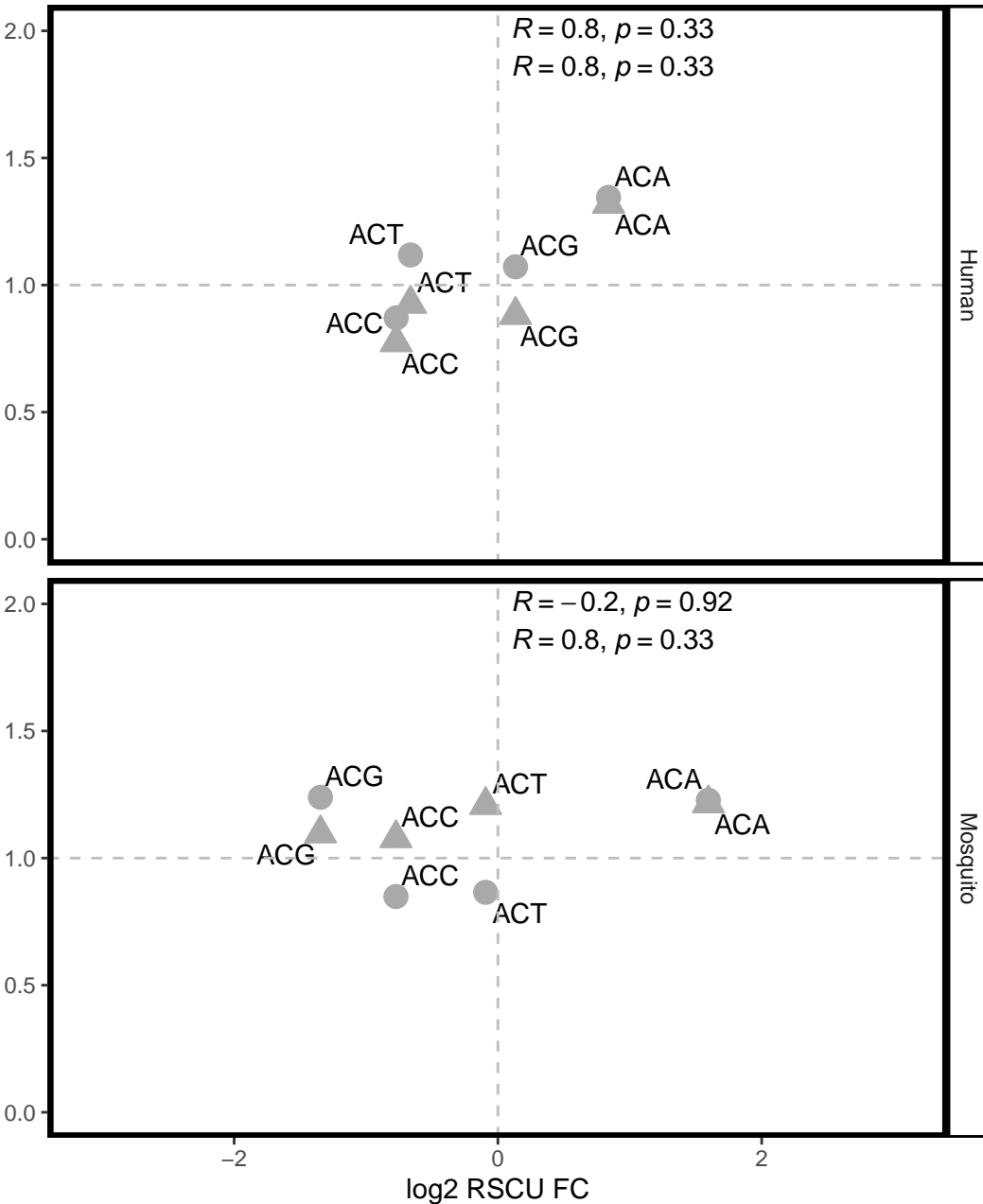
- A
- B



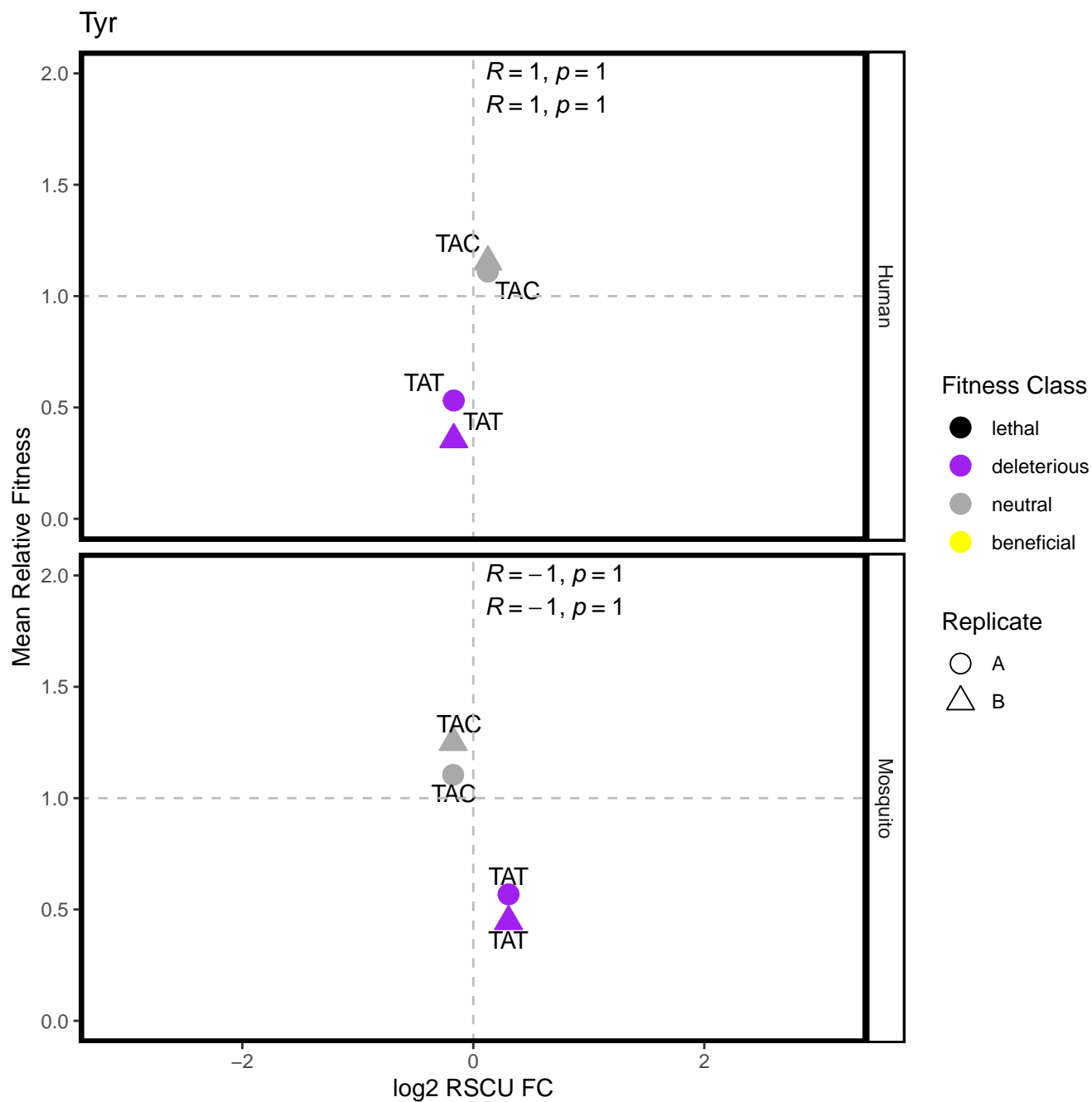
log2 RSCU FC

Thr

Mean Relative Fitness







Val

Mean Relative Fitness

$R = 0, p = 1$   
 $R = -0.4, p = 0.75$

GTA  
GTG  
GTG  
GTC  
GTC  
GTT  
GTT

Human

Fitness Class

- lethal
- deleterious
- neutral
- beneficial

Replicate

- A
- B

$R = 0.4, p = 0.75$   
 $R = 0.8, p = 0.33$

GTC  
GTA  
GTA  
GTT  
GTT  
GTC  
GTC  
GTT

Mosquito

-2

0

2

 $\log_2$  RSCU FC