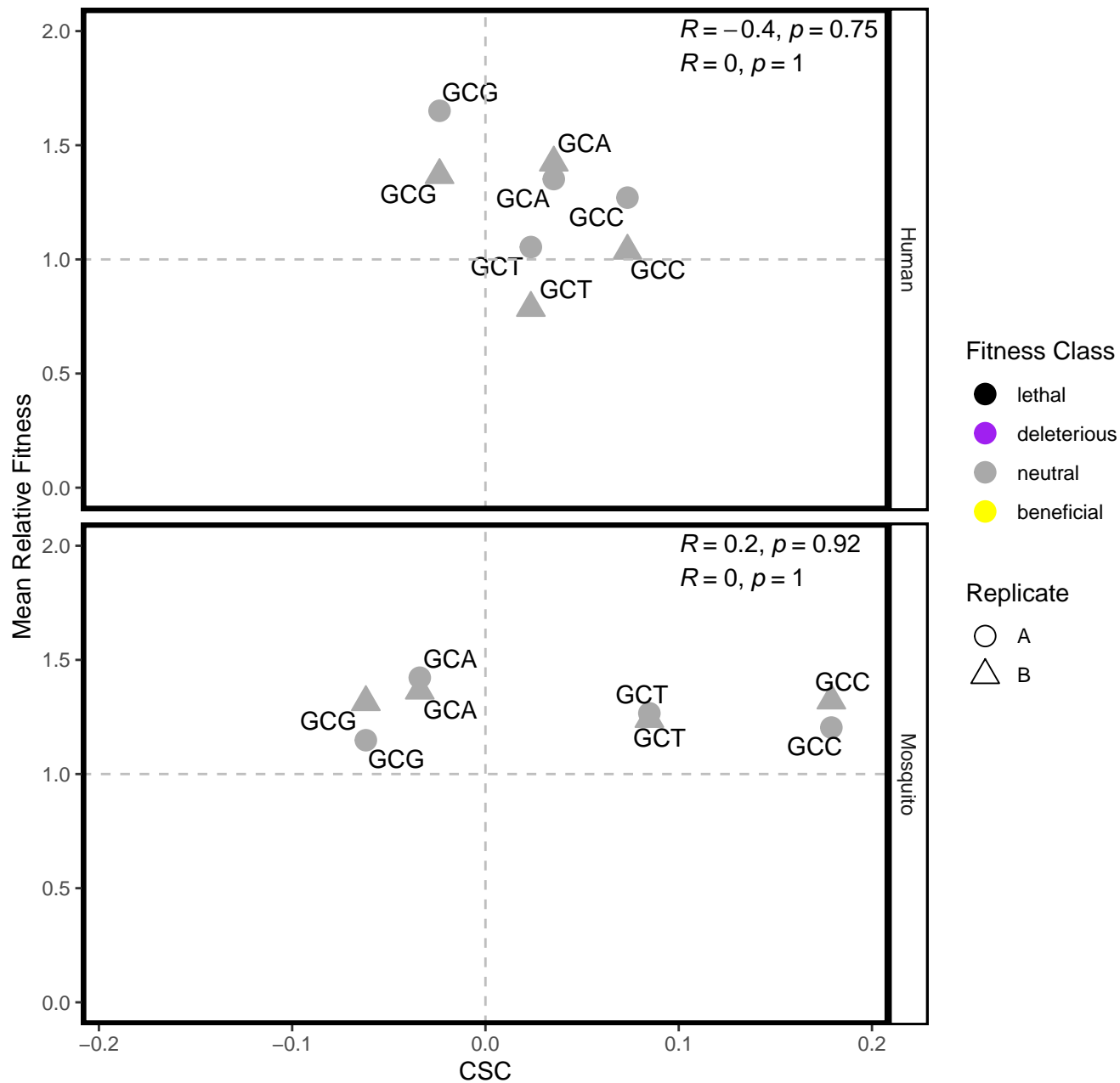


Ala



Arg

Mean Relative Fitness

CSC

Human

Mosquito

Fitness Class

- lethal
- deleterious
- neutral
- beneficial

Replicate

- A
- B

 $R = -0.71, p = 0.14$ $R = -0.26, p = 0.66$ $R = -0.54, p = 0.3$ $R = -0.029, p = 1$

AGA

AGA

CGC

CGC

AGG

AGG

CGA

CGT

CGT

CGA

CGG

CGG

CGG

CGG

CGA

CGA

AGG

AGG

AGG

AGA

AGA

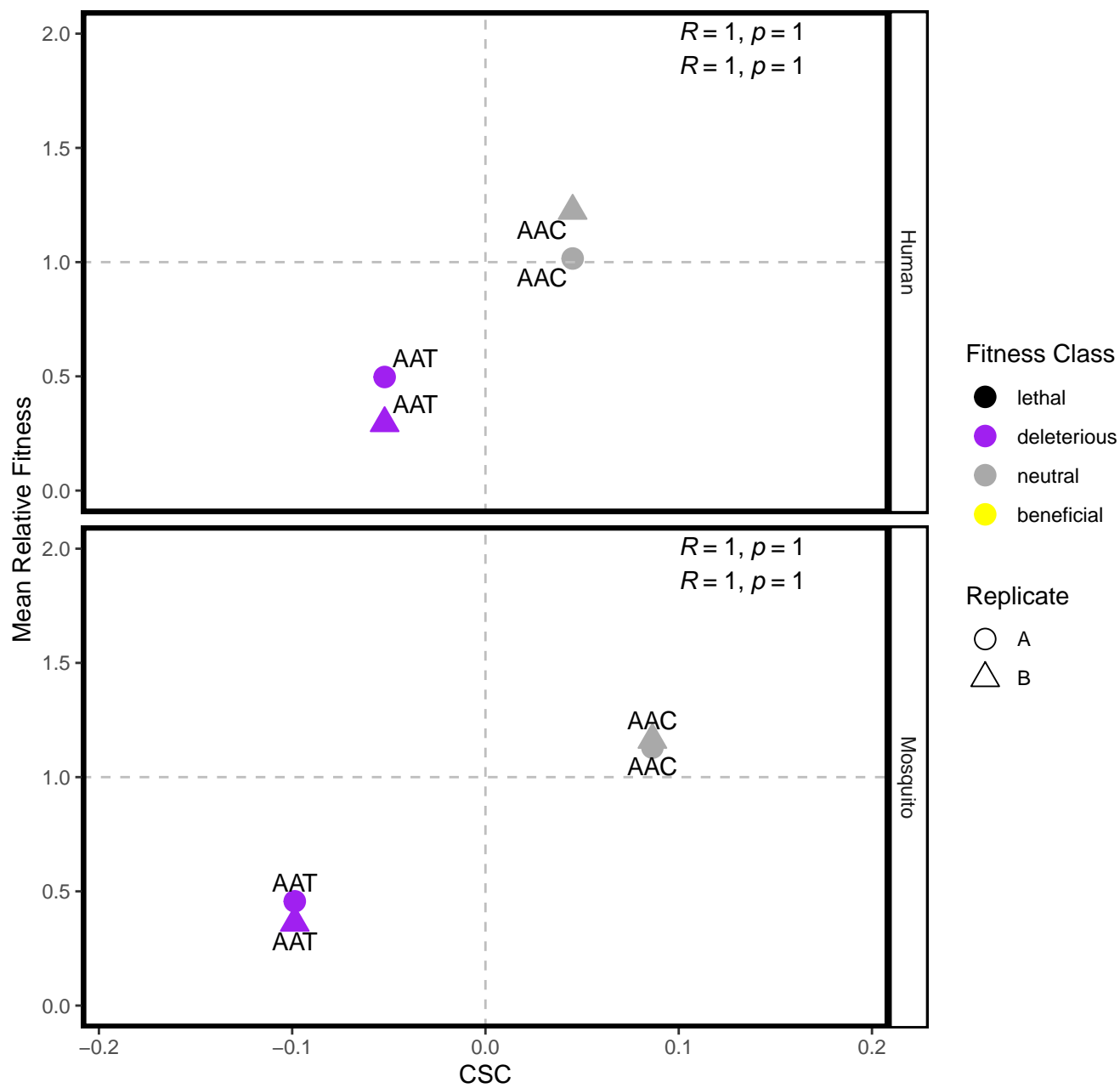
CGC

CGC

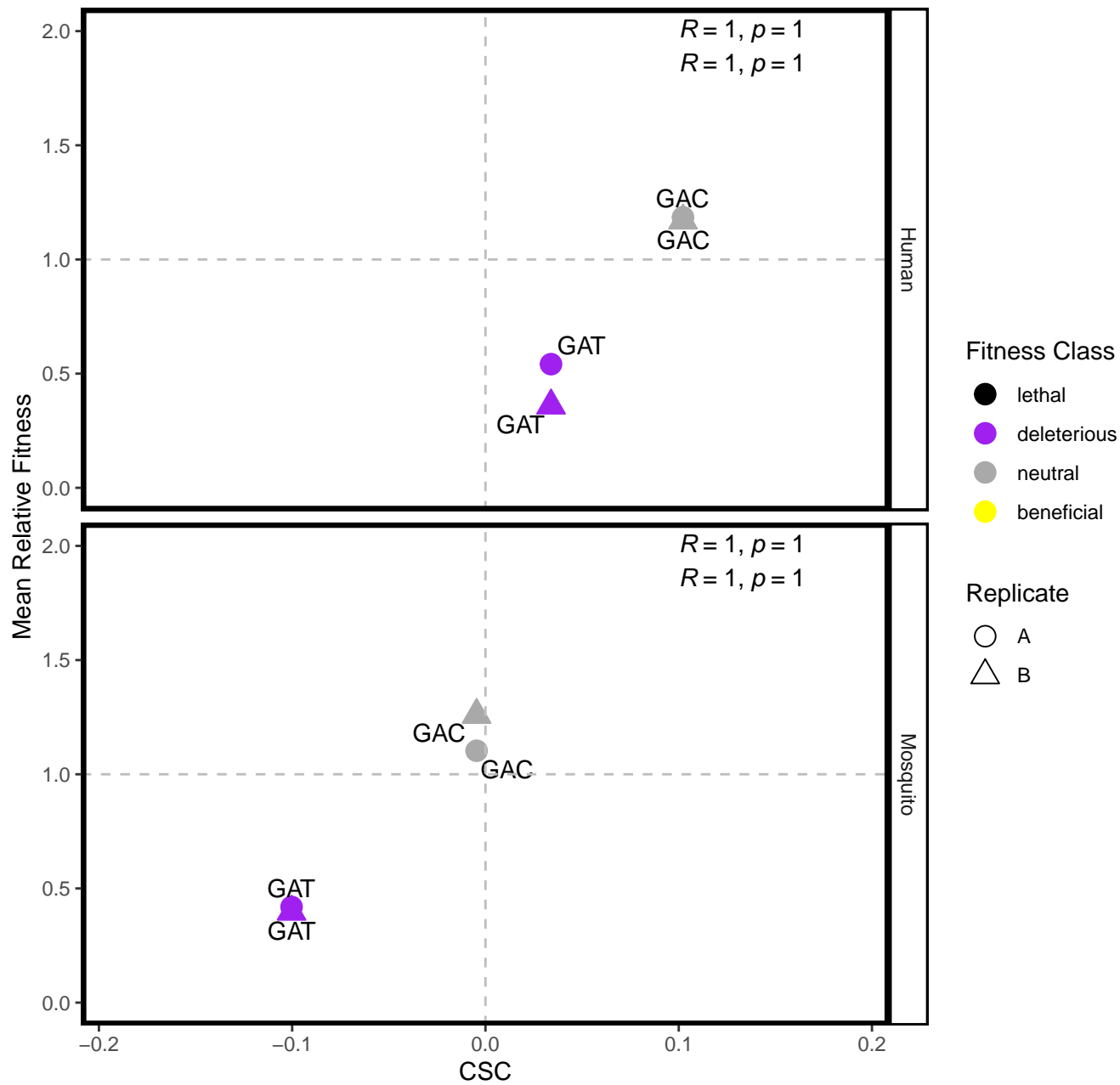
CGT

CGT

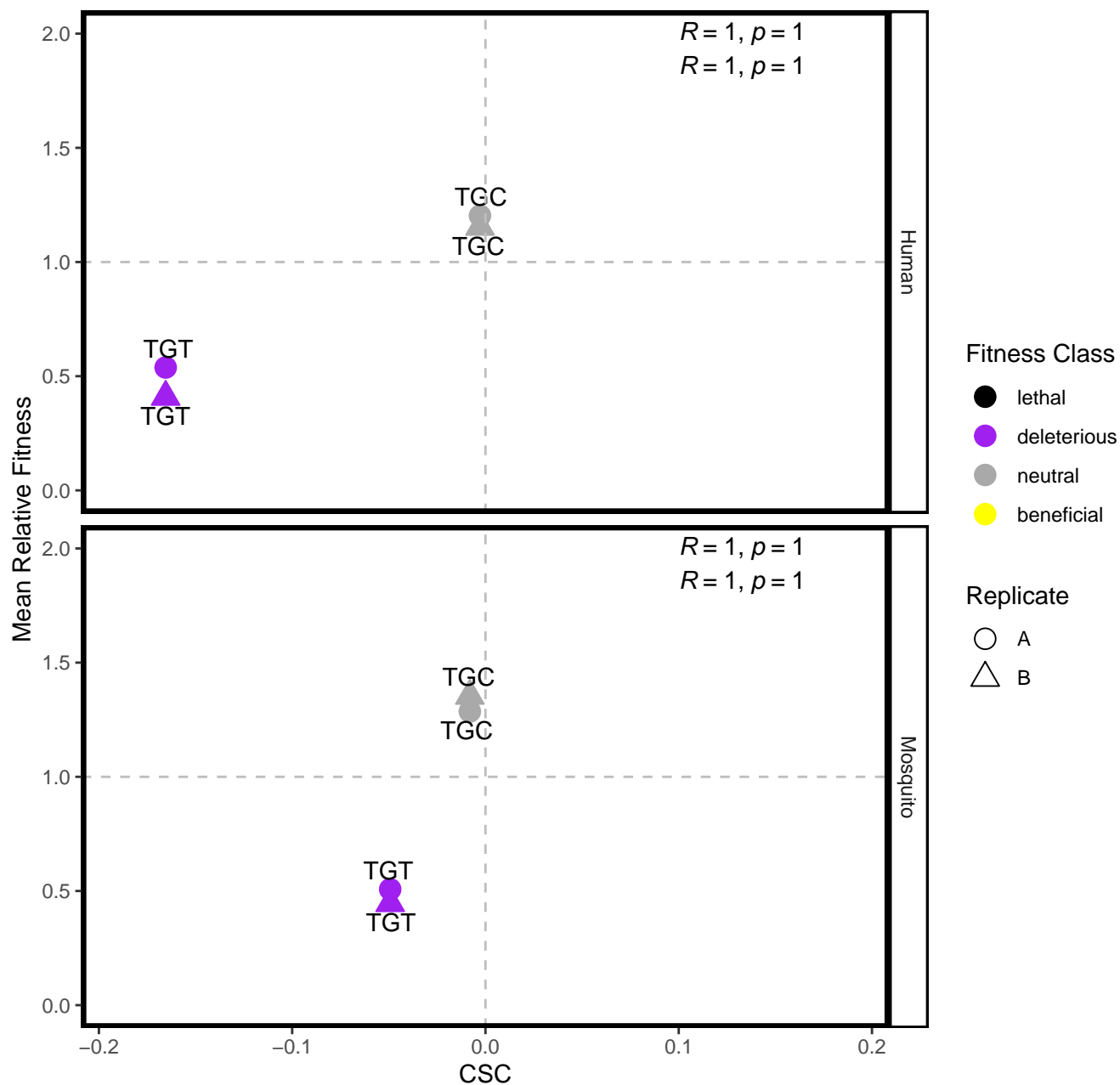
Asn



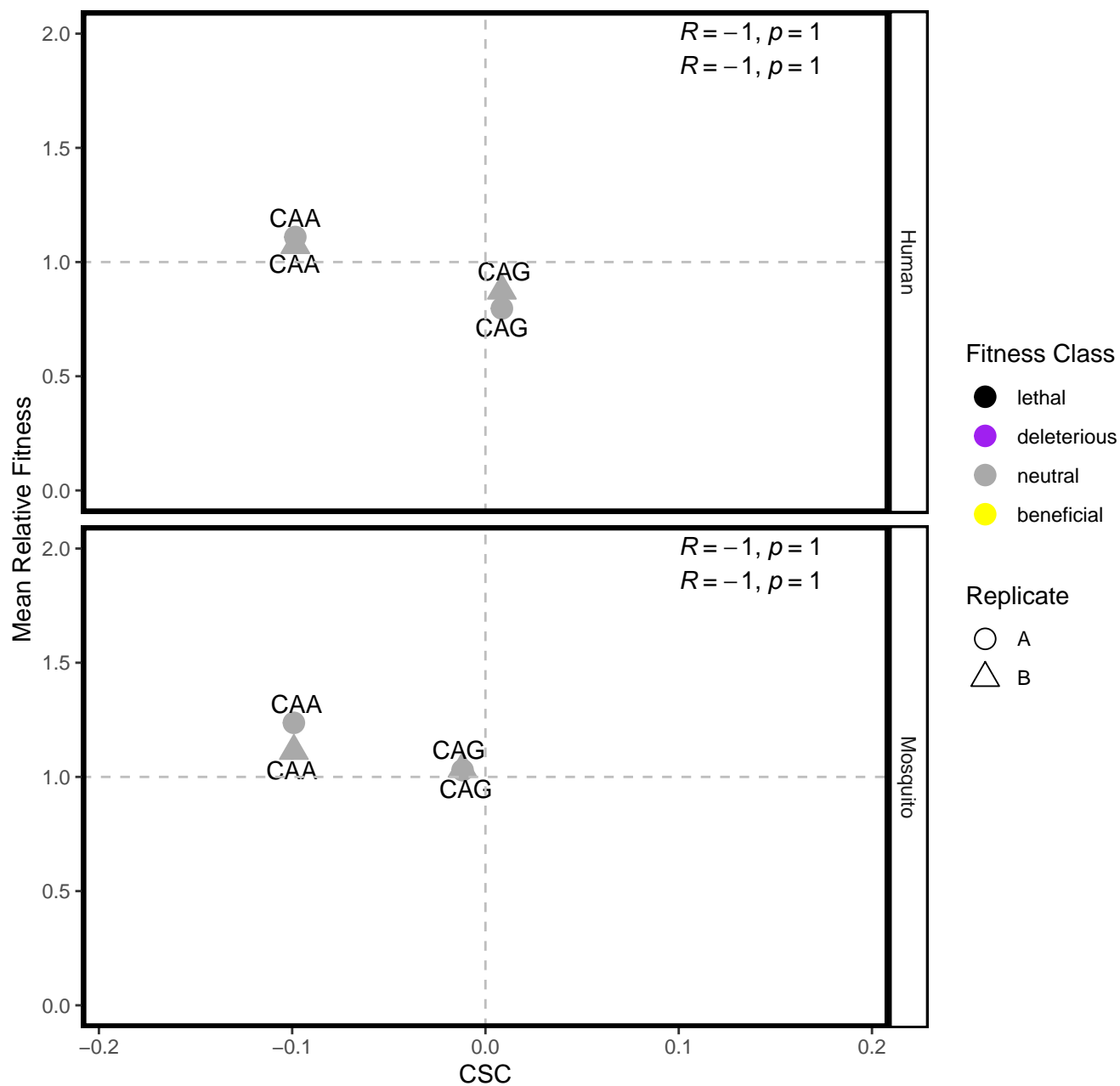
Asp



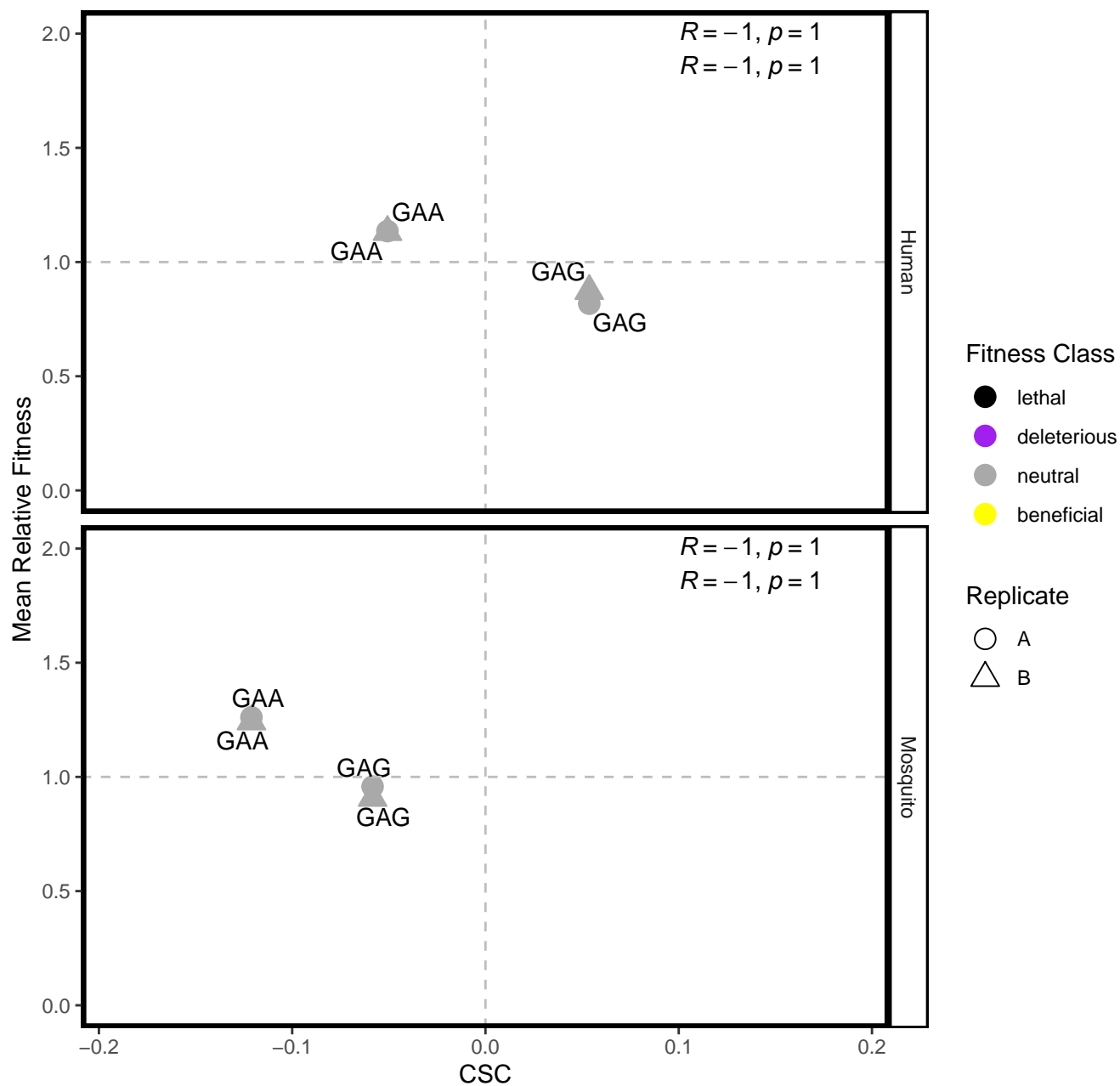
Cys



Gln



Glu



Gly

Mean Relative Fitness

$R = 0.2, p = 0.92$
 $R = 0.2, p = 0.92$

Human

Fitness Class

- lethal
- deleterious
- neutral
- beneficial

Replicate

- A
- △ B

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

Mosquito

-0.2

-0.1

CSC

0.1

0.2

0.0

0.5

1.0

1.5

2.0

0.0

0.5

1.0

1.5

2.0

GGA

GGA

GGC

GGC

GGG

GGT

GGG

GGT

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

GGG

GGG

GGA

GGC

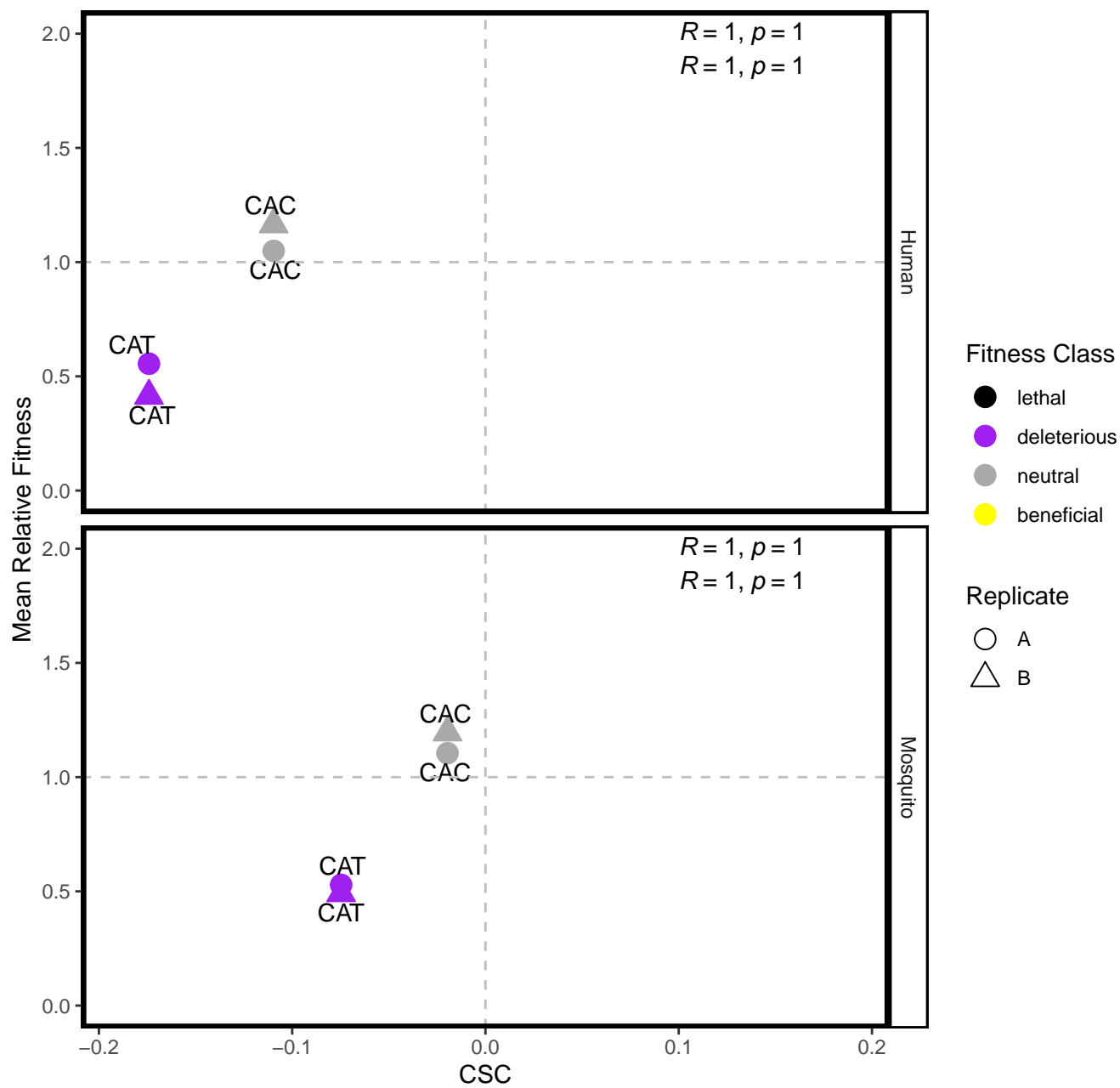
GGA

GGC

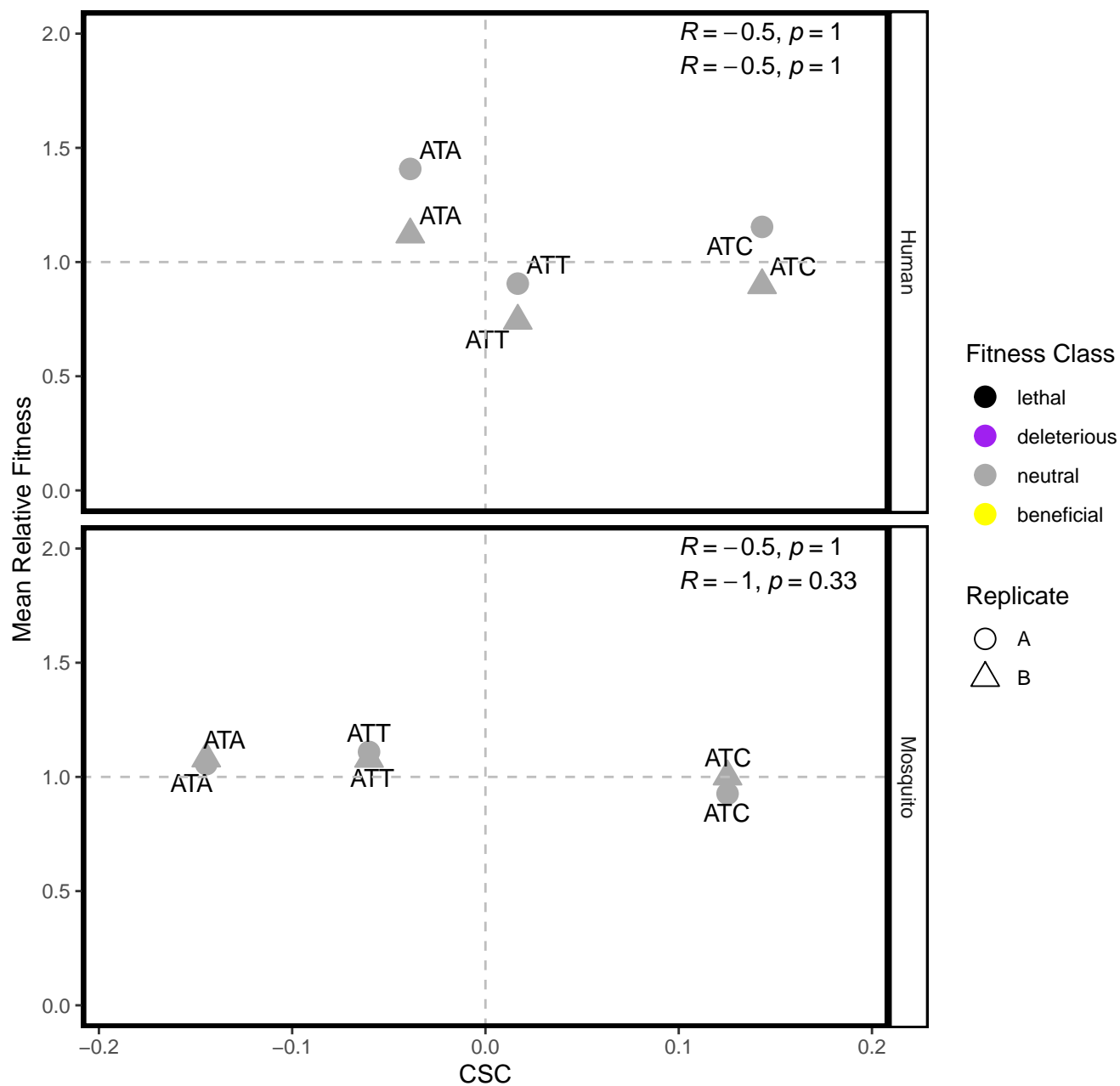
GGT

GGT

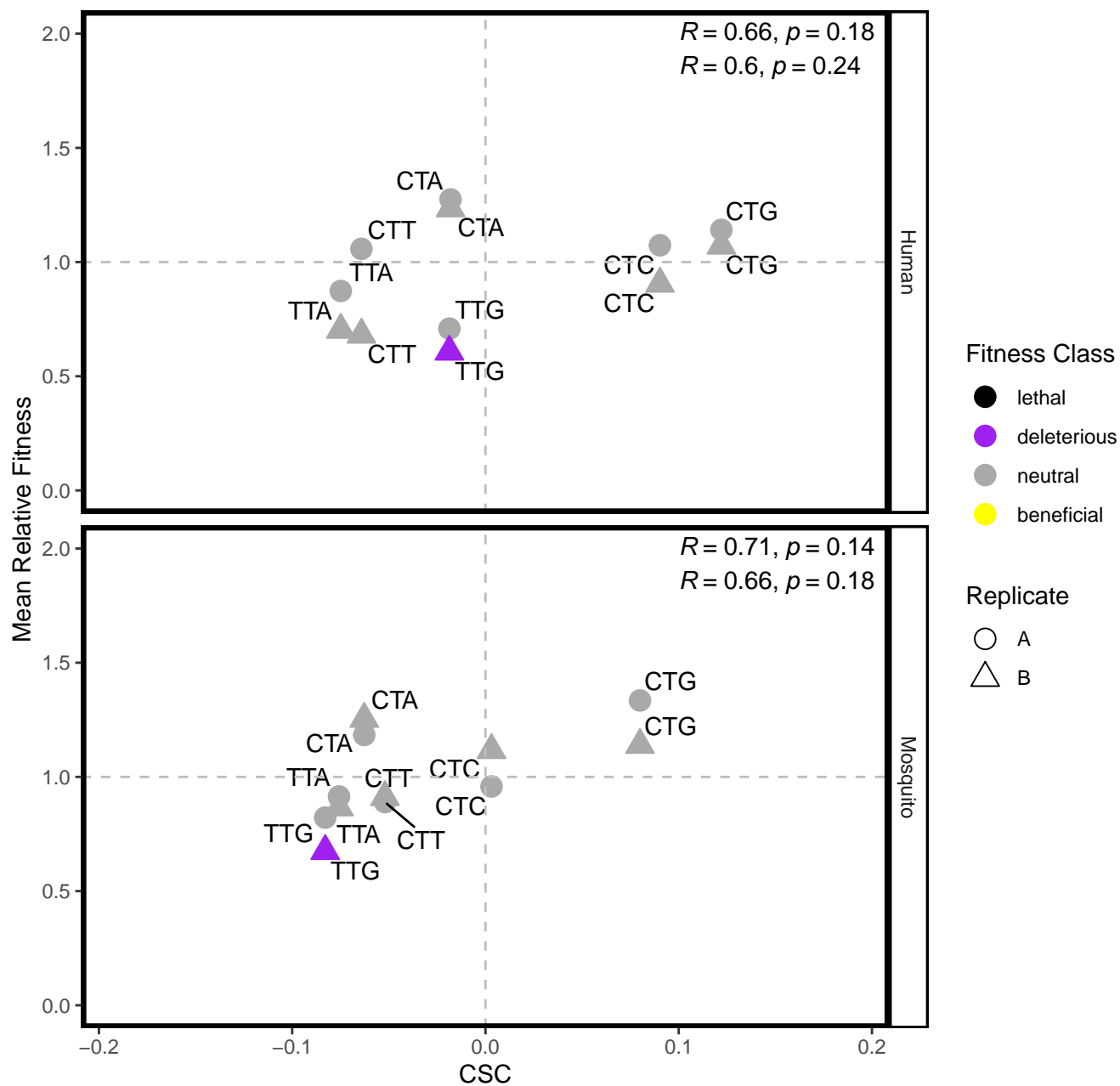
His



Ile

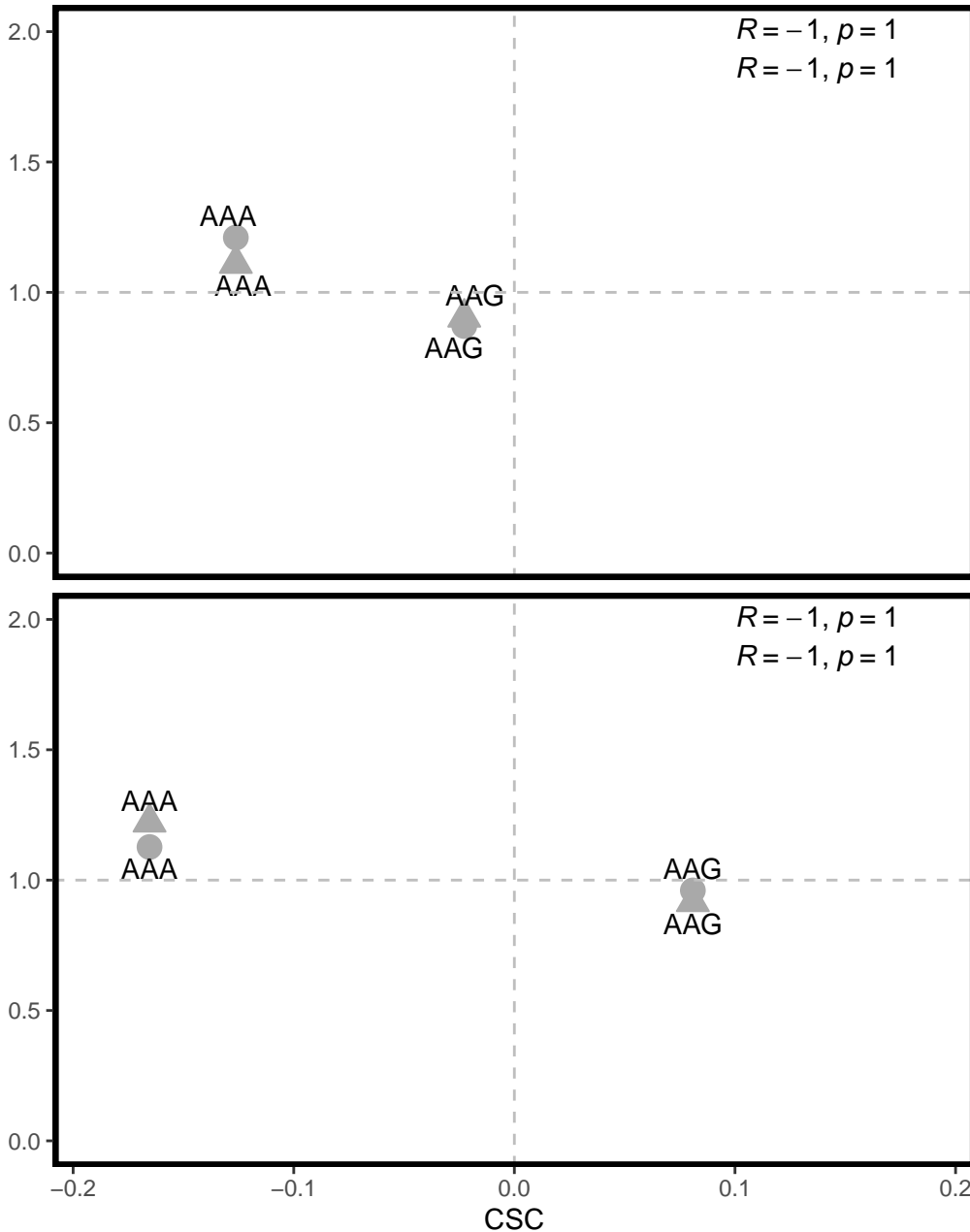


Leu



Lys

Mean Relative Fitness



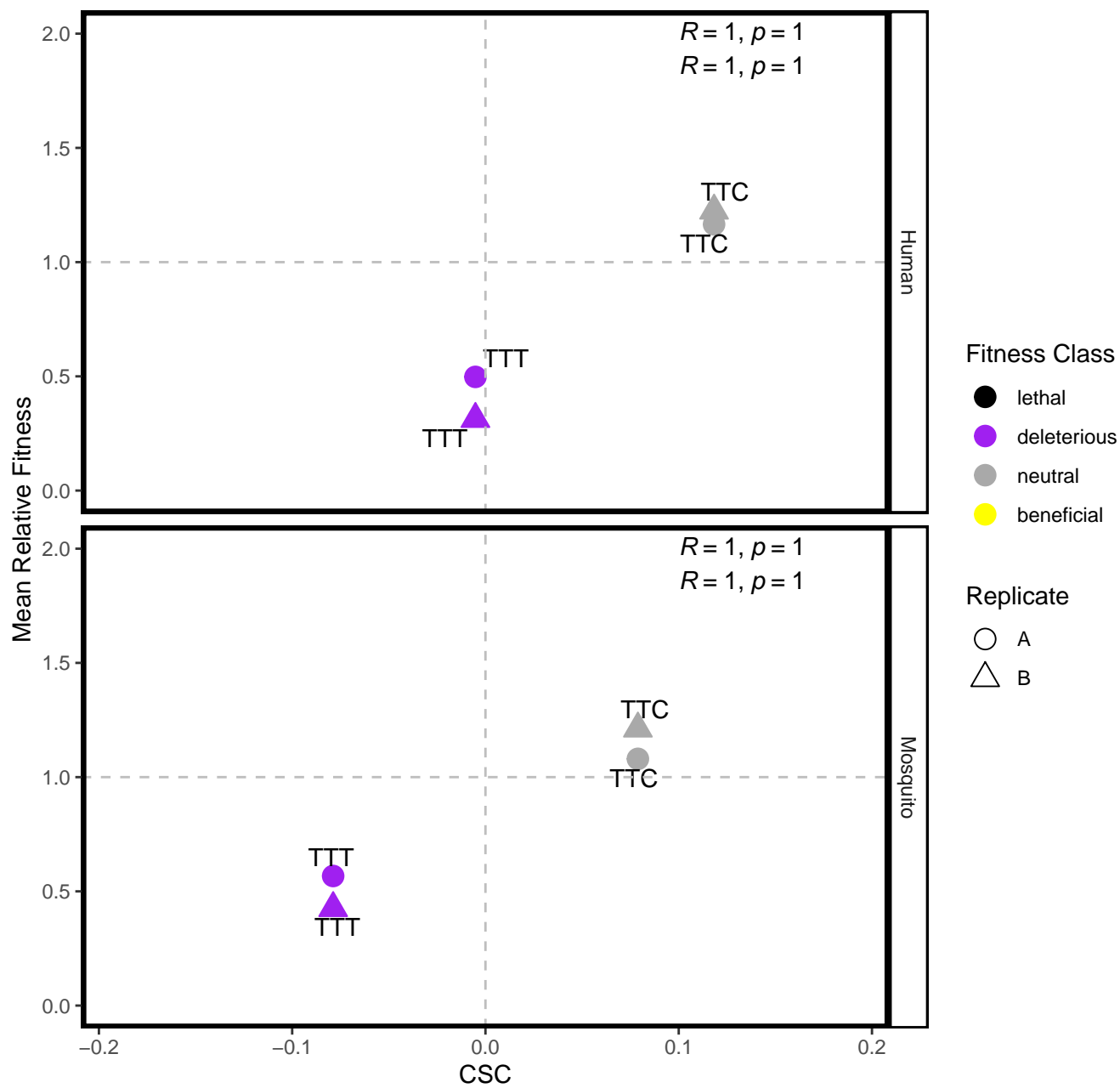
Fitness Class

- lethal
- deleterious
- neutral
- beneficial

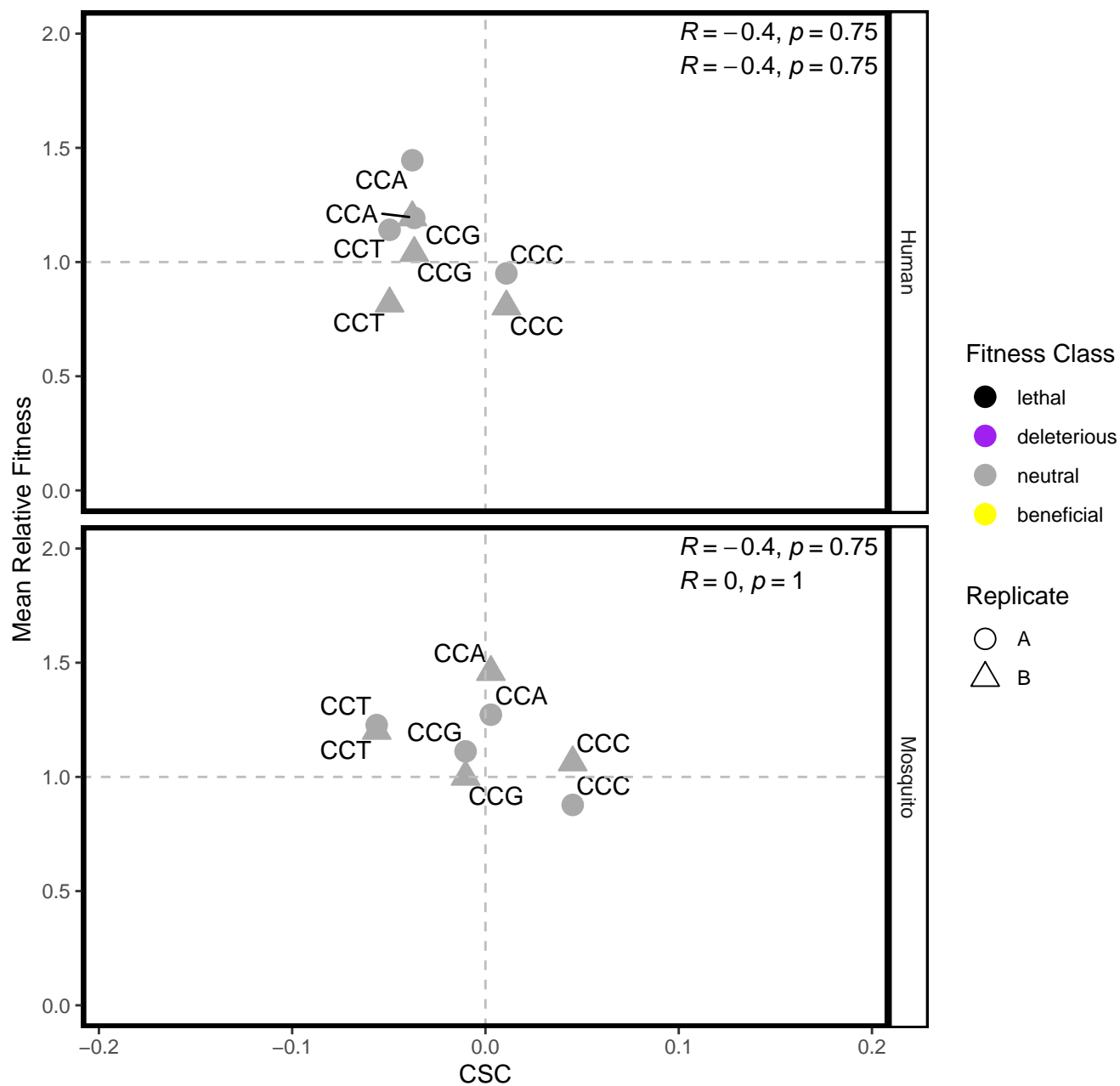
Replicate

- A
- △ B

Phe



Pro



Ser

