

# Quantifying the male gain curve

How much pollen is enough?

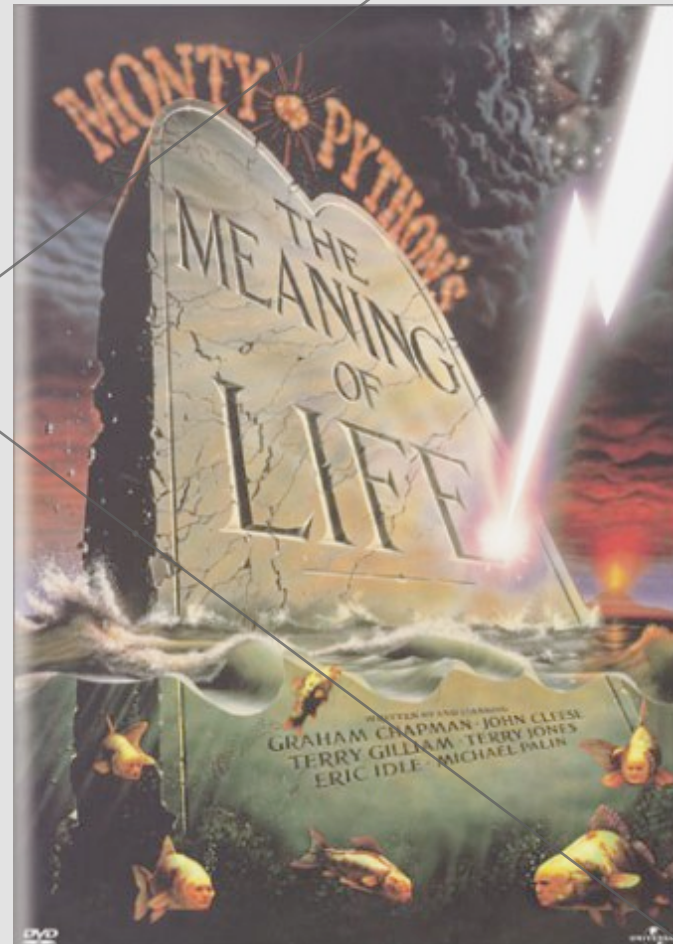


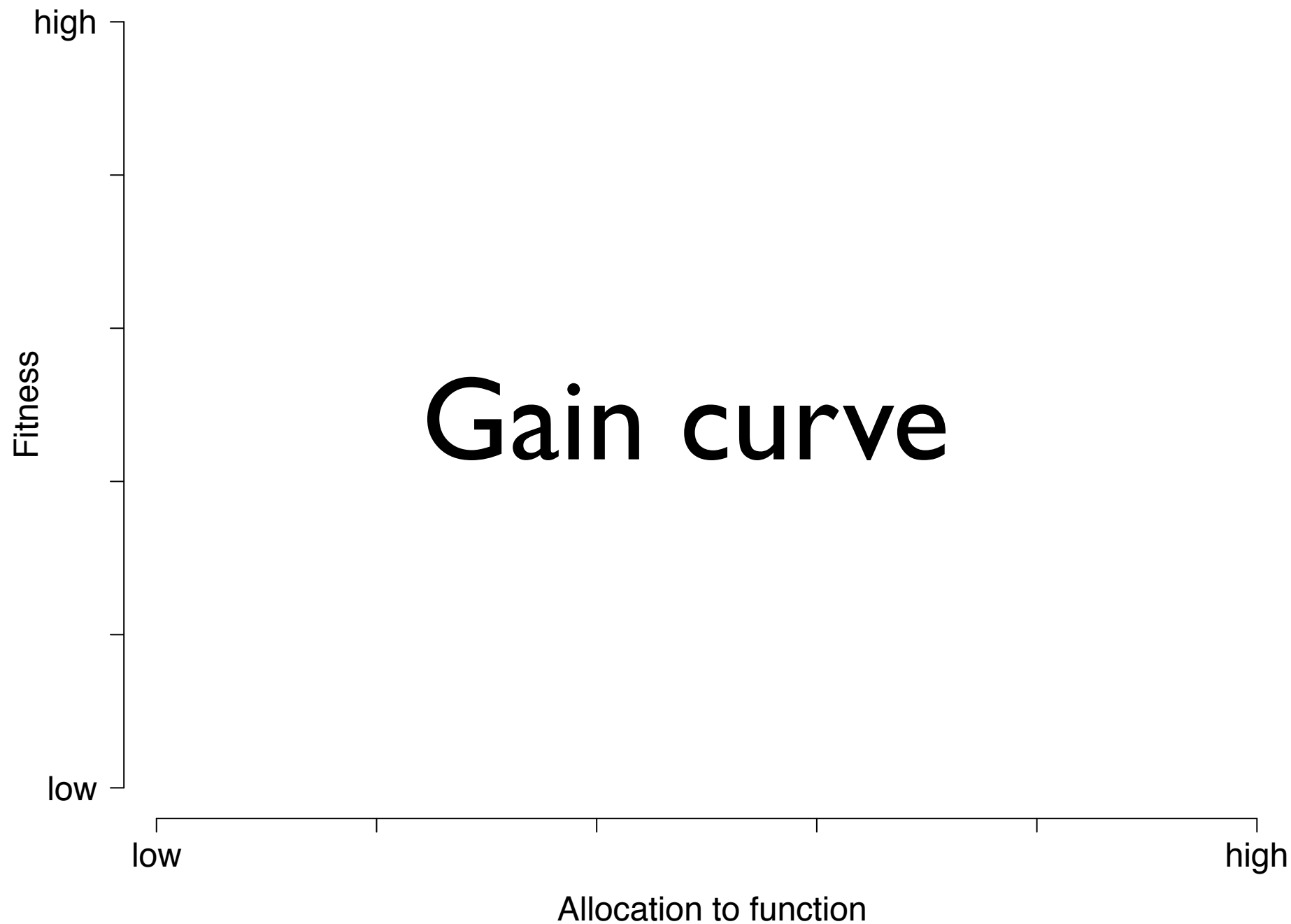




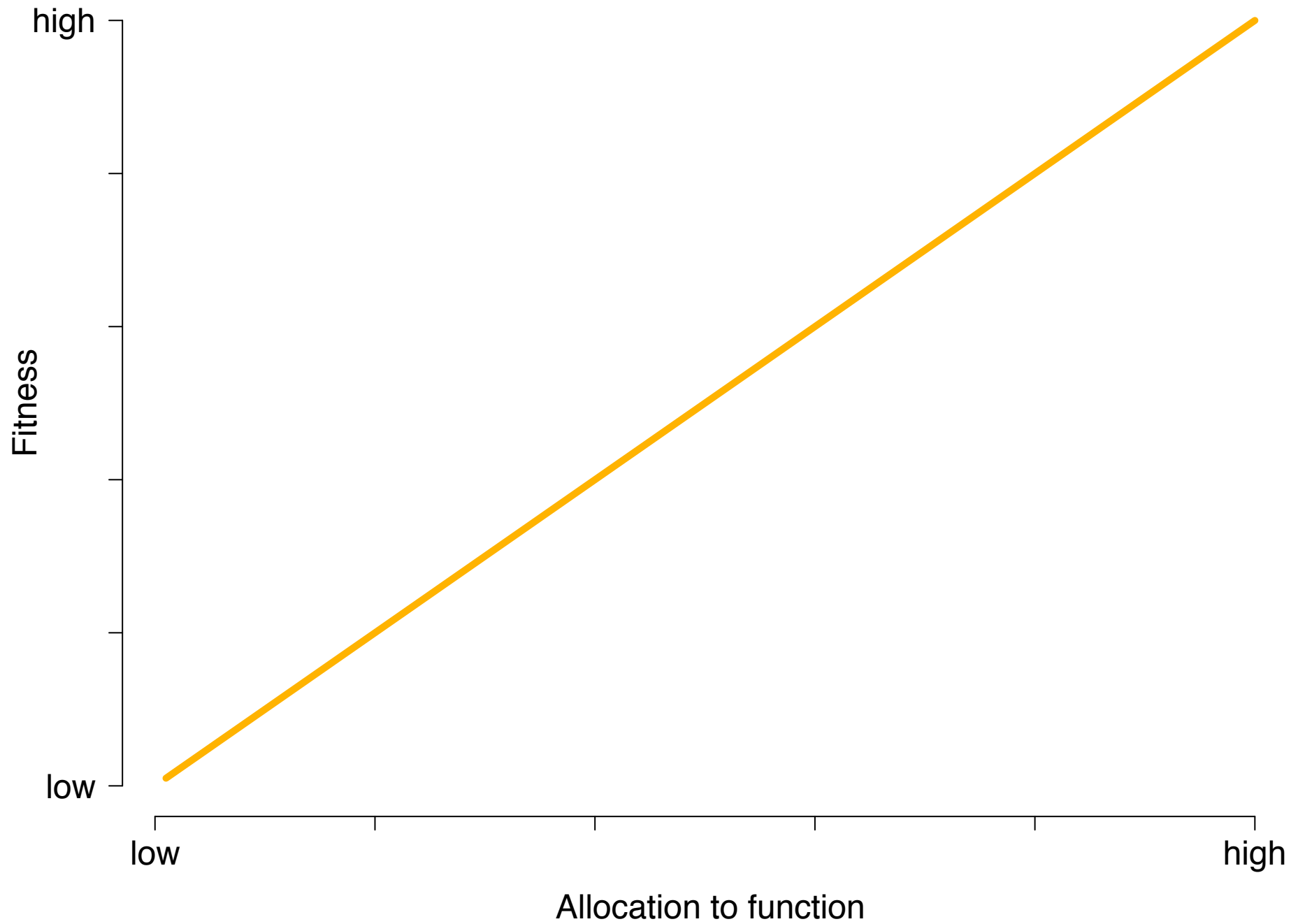
# Monty-Python Principle

Every sperm is sacred  
Every sperm is good  
Every sperm is needed  
In your neighbourhood  
Every sperm is sacred  
Every sperm is great  
If a sperm is wasted  
God gets quite irate

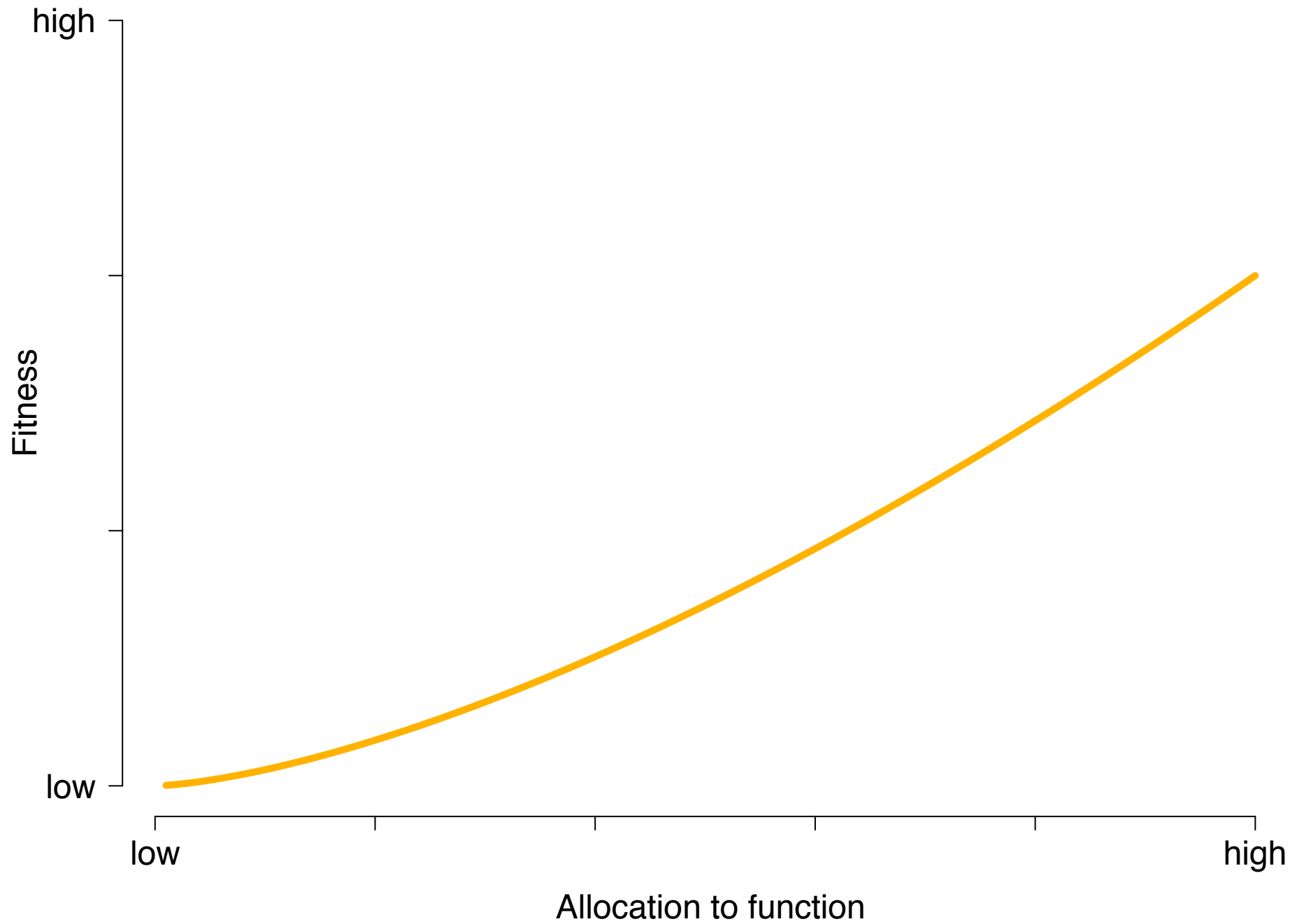




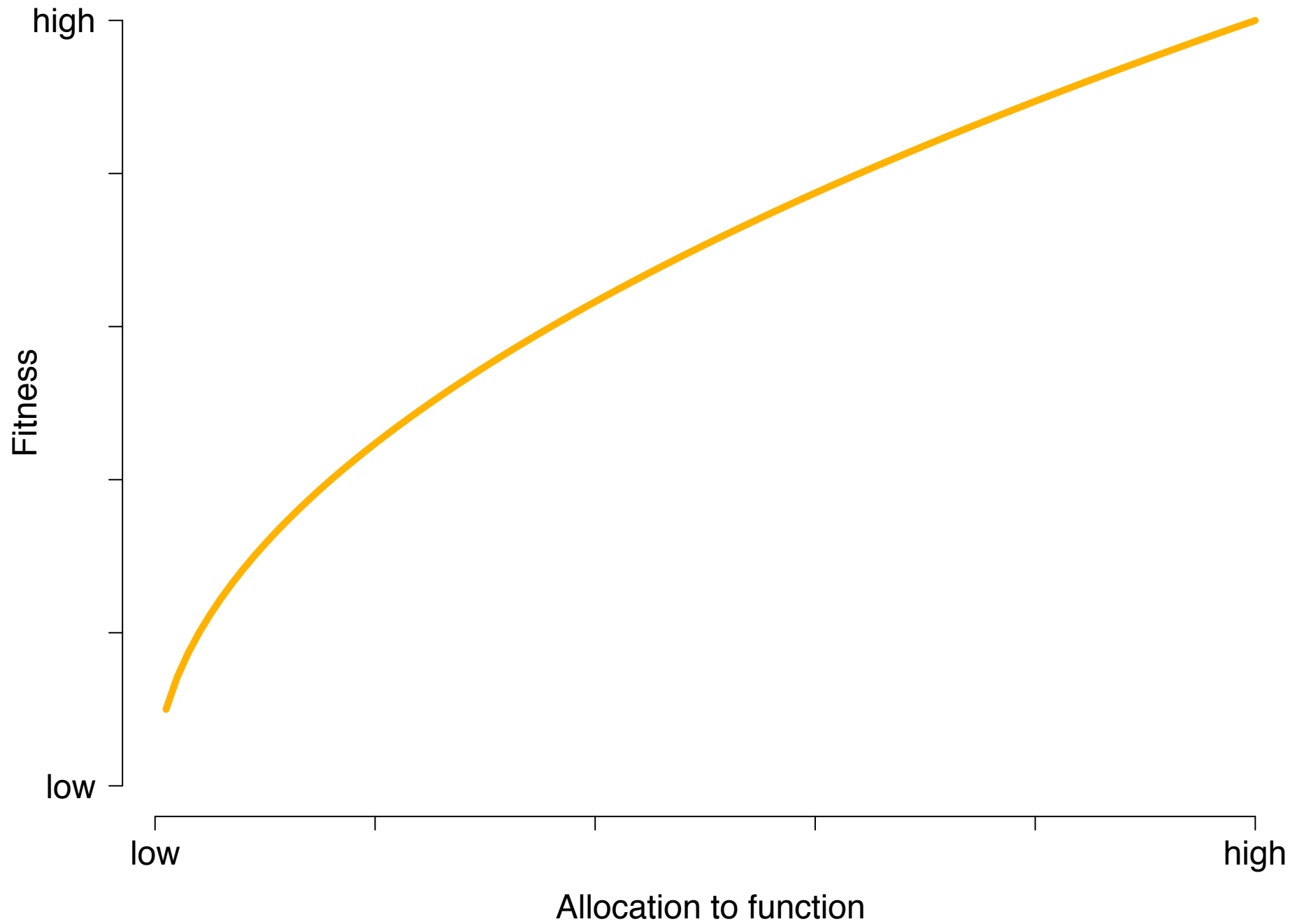
# Linear



# Accelerating

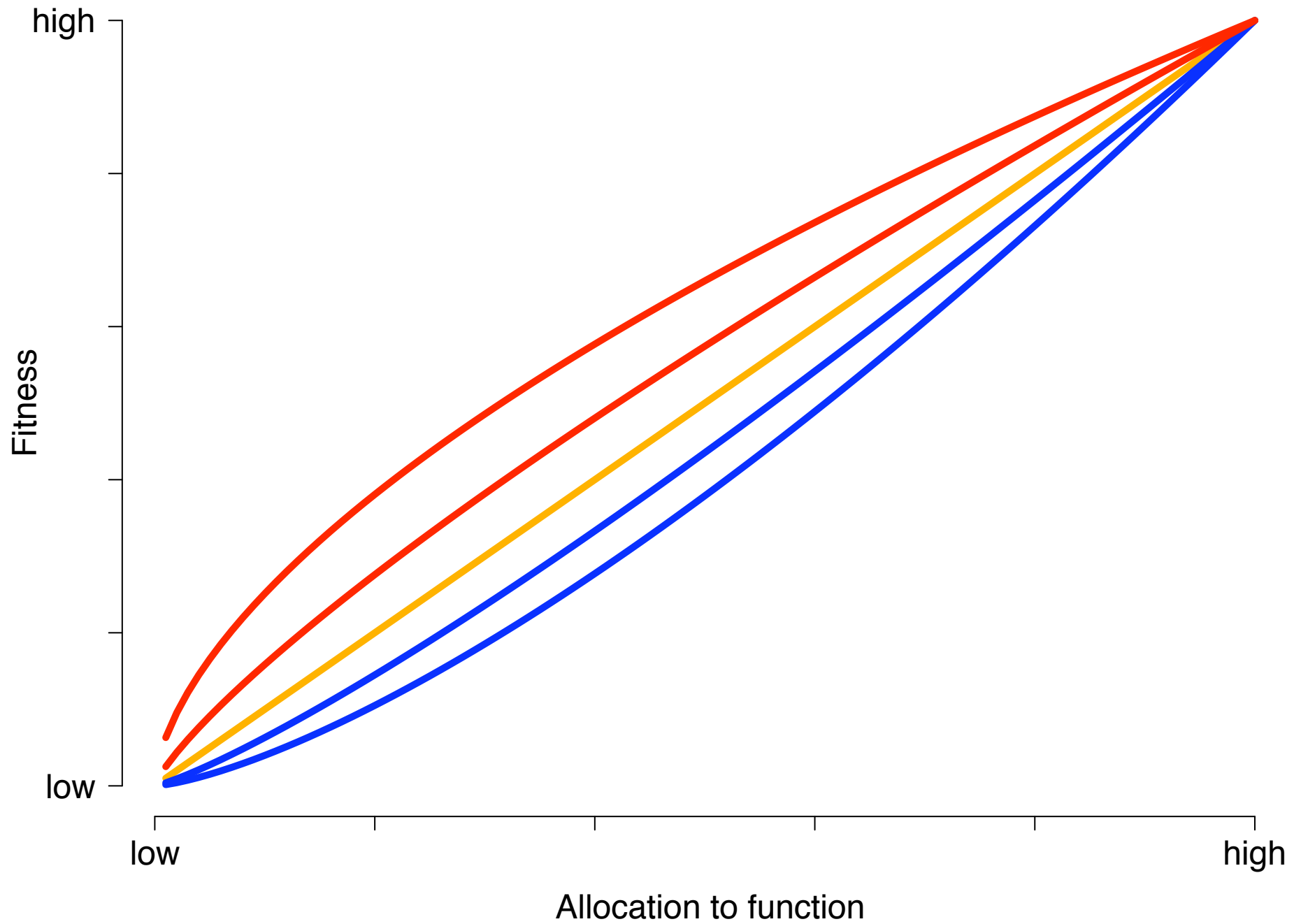


# Decelerating

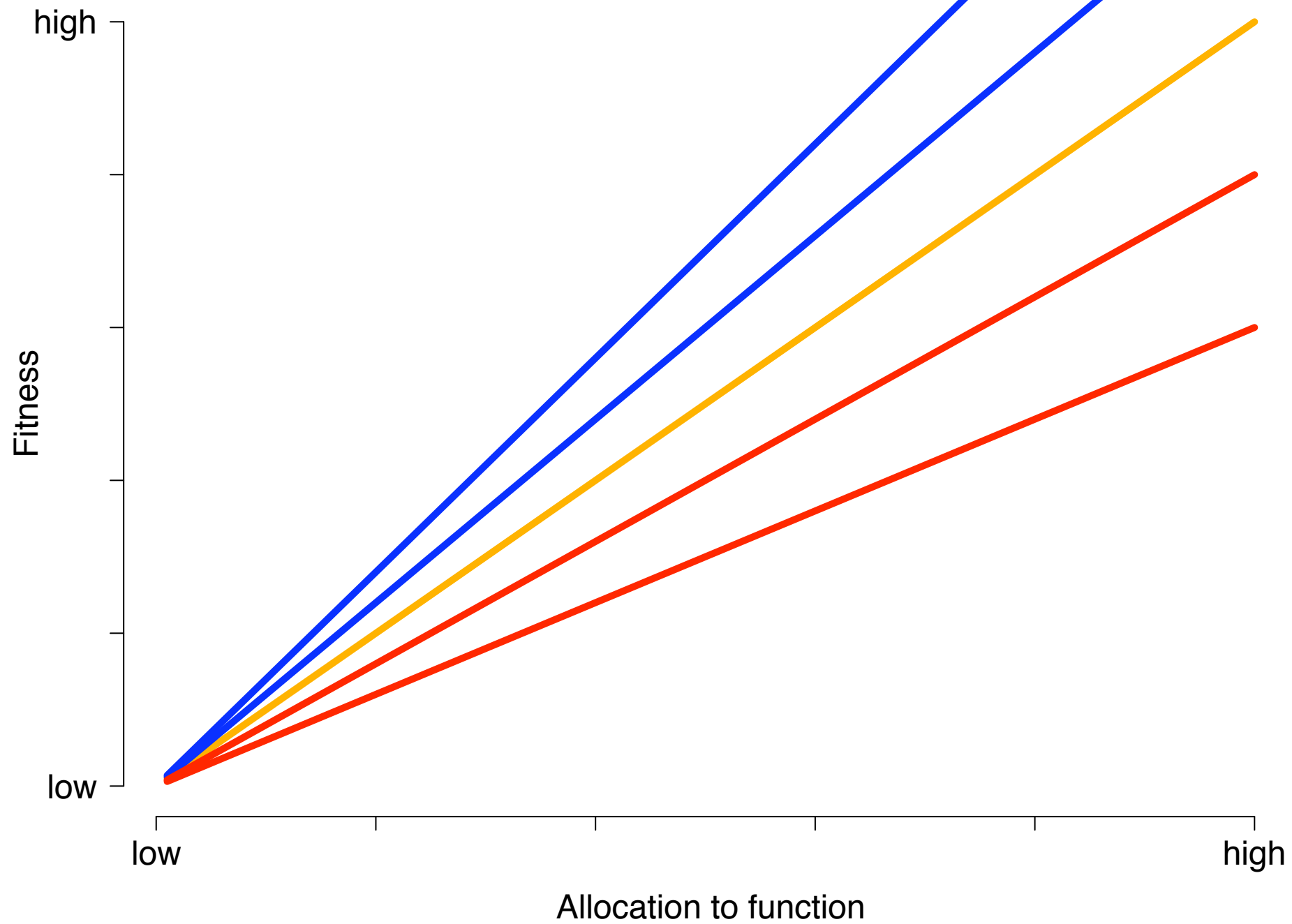




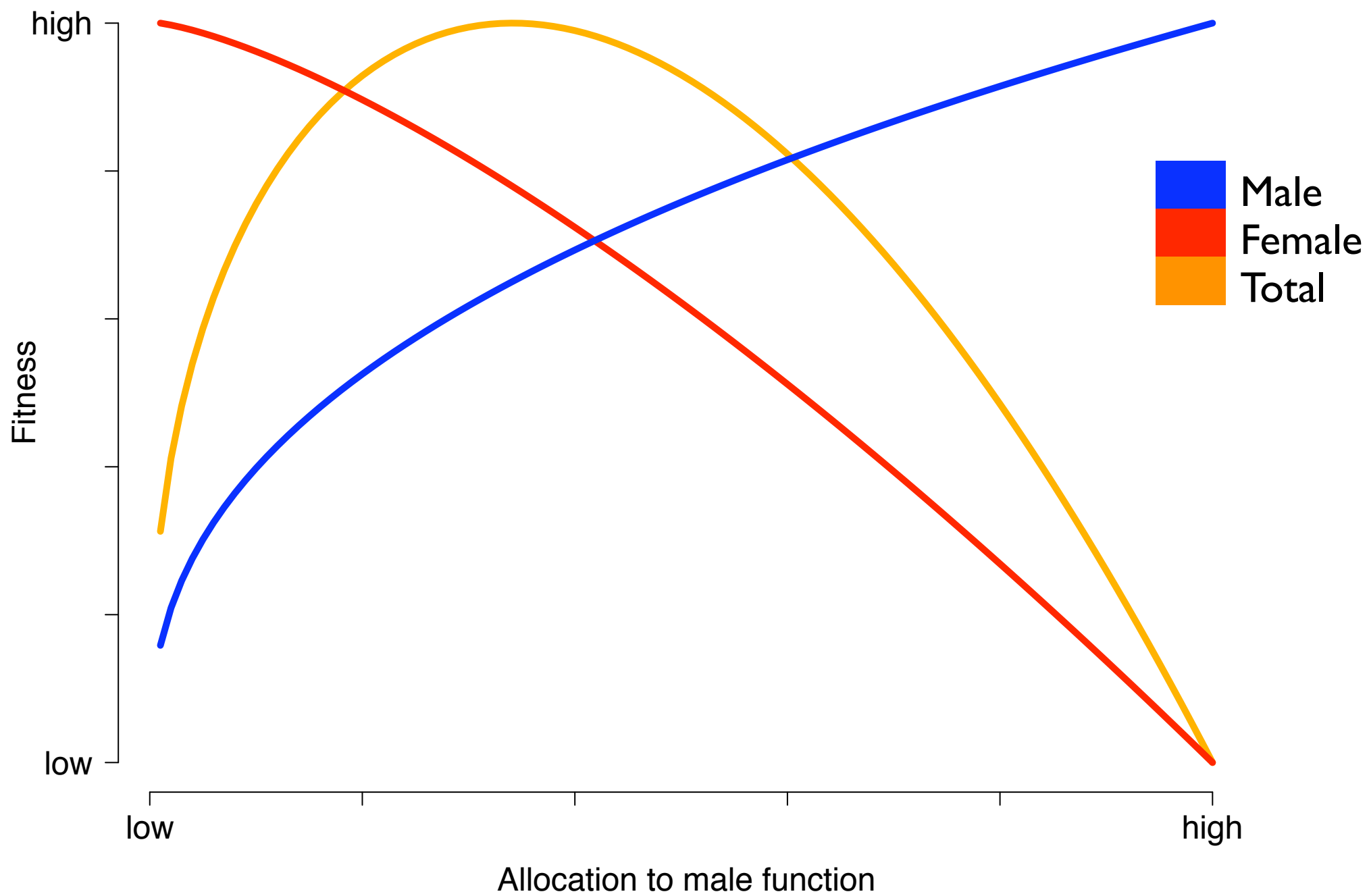
$$y = ax^b$$

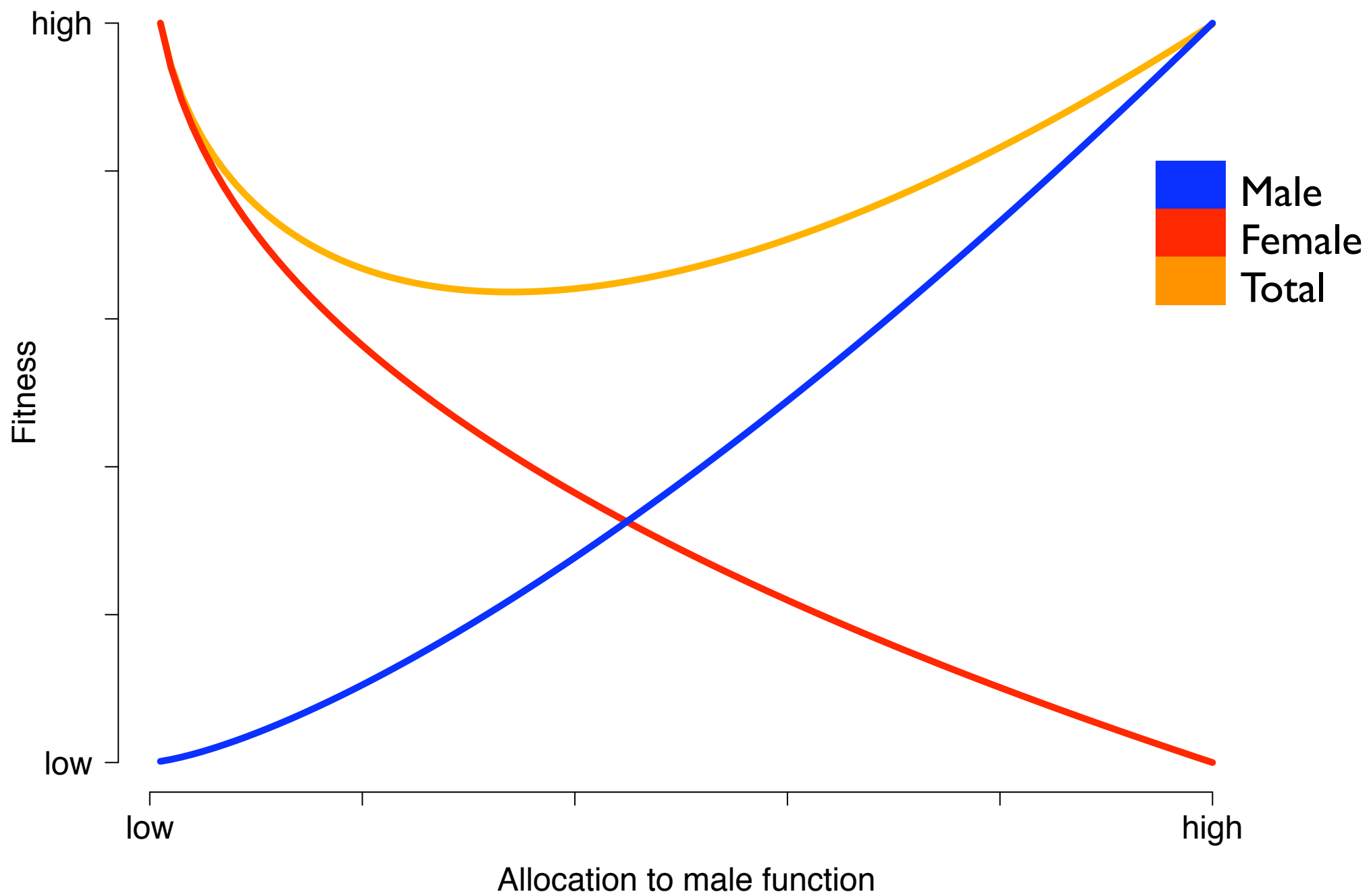


$$y = ax^b$$

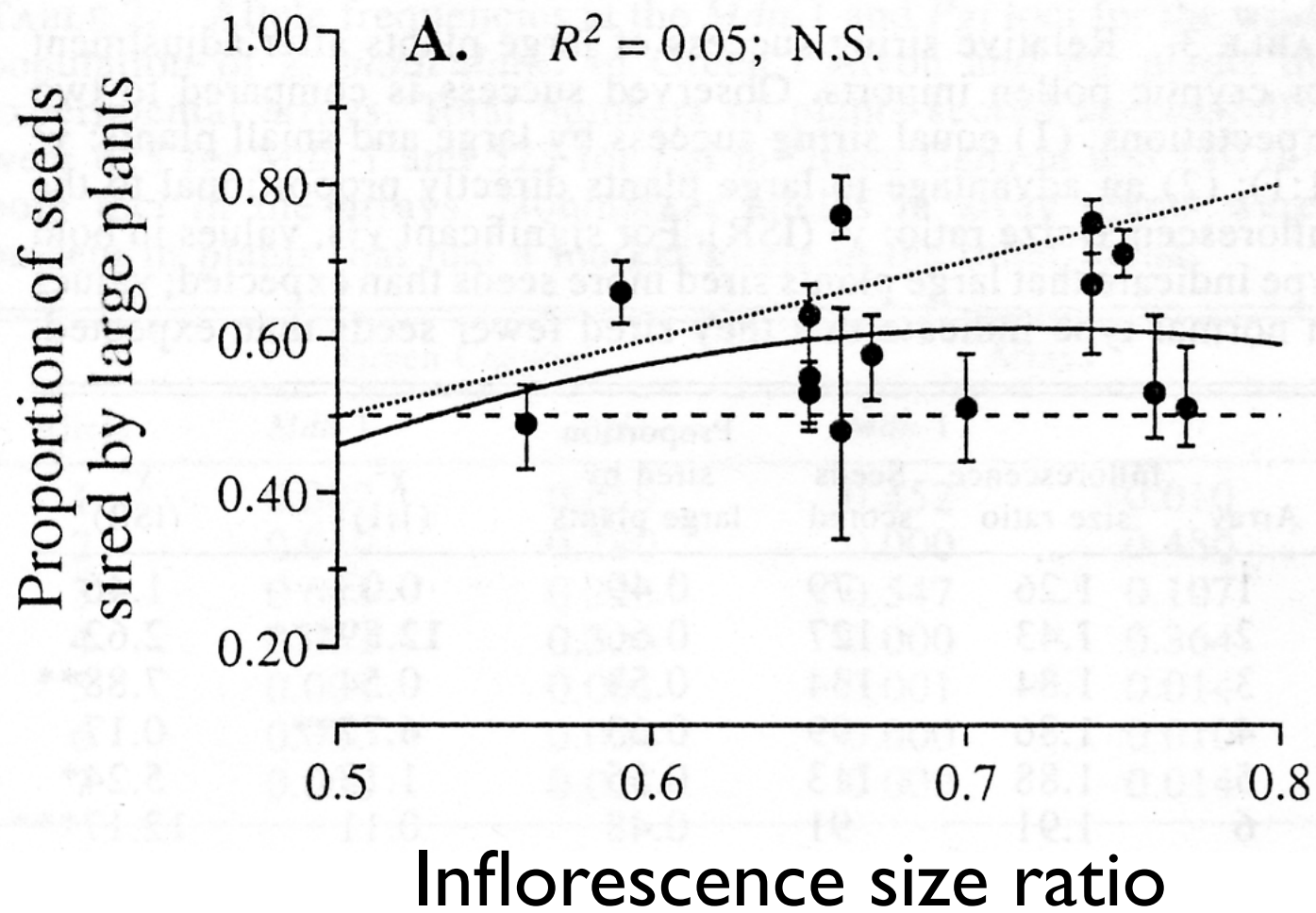






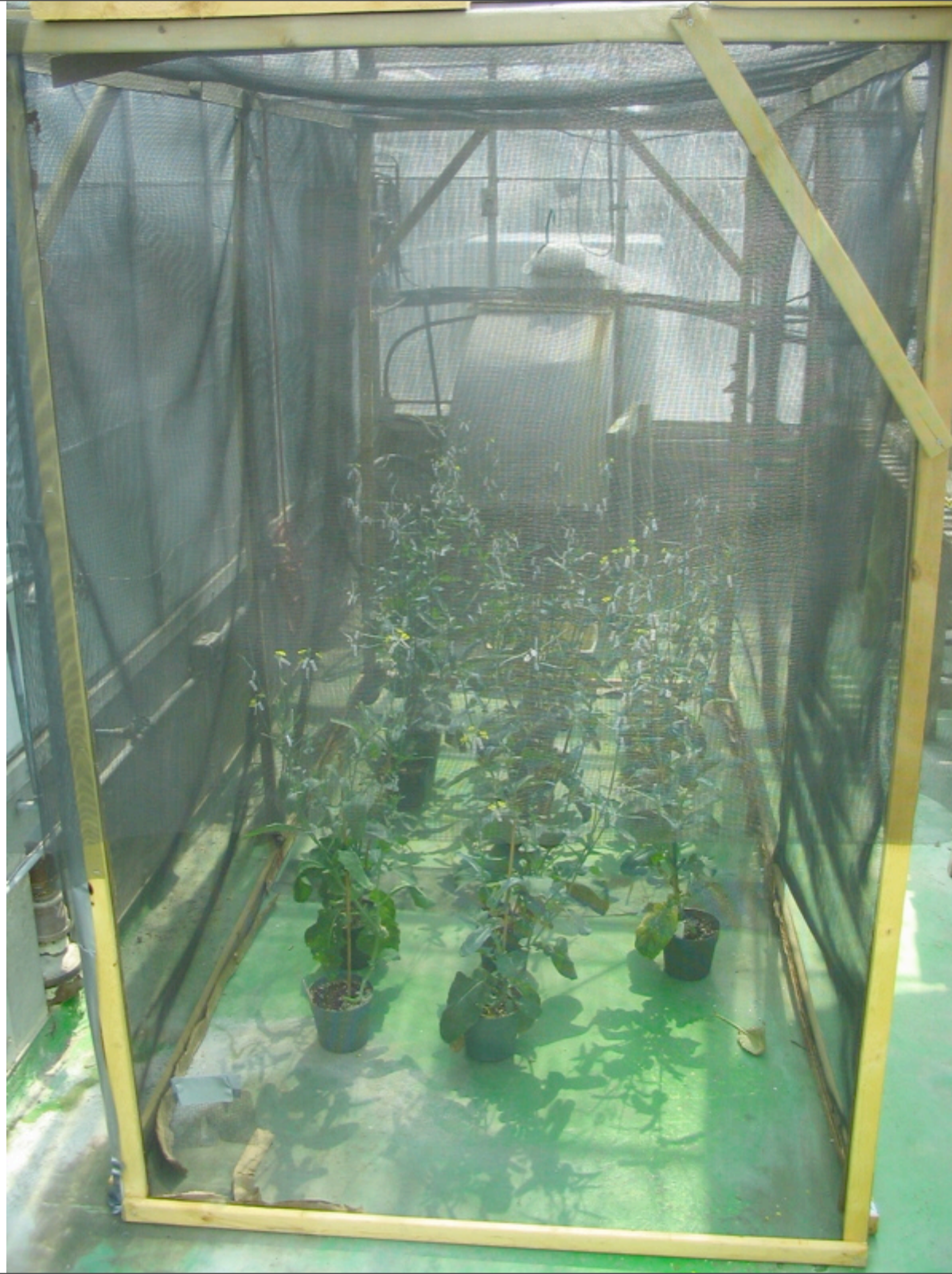












# Experimental Design

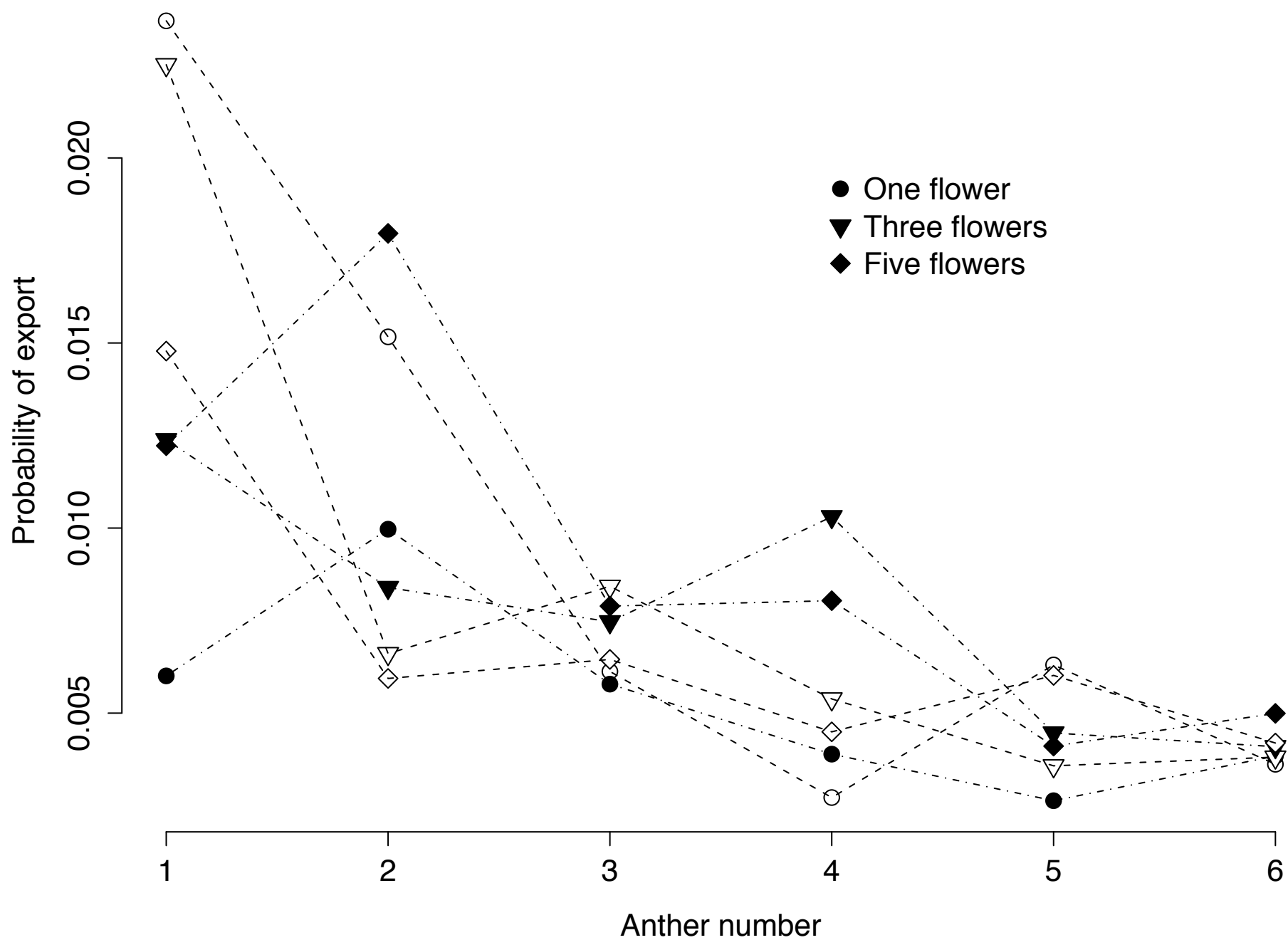
Anthers/ flower	Plants	Anthers/ array
1	30	30
2	15	30
3	10	30
4	7	28
5	6	30
6	5	30

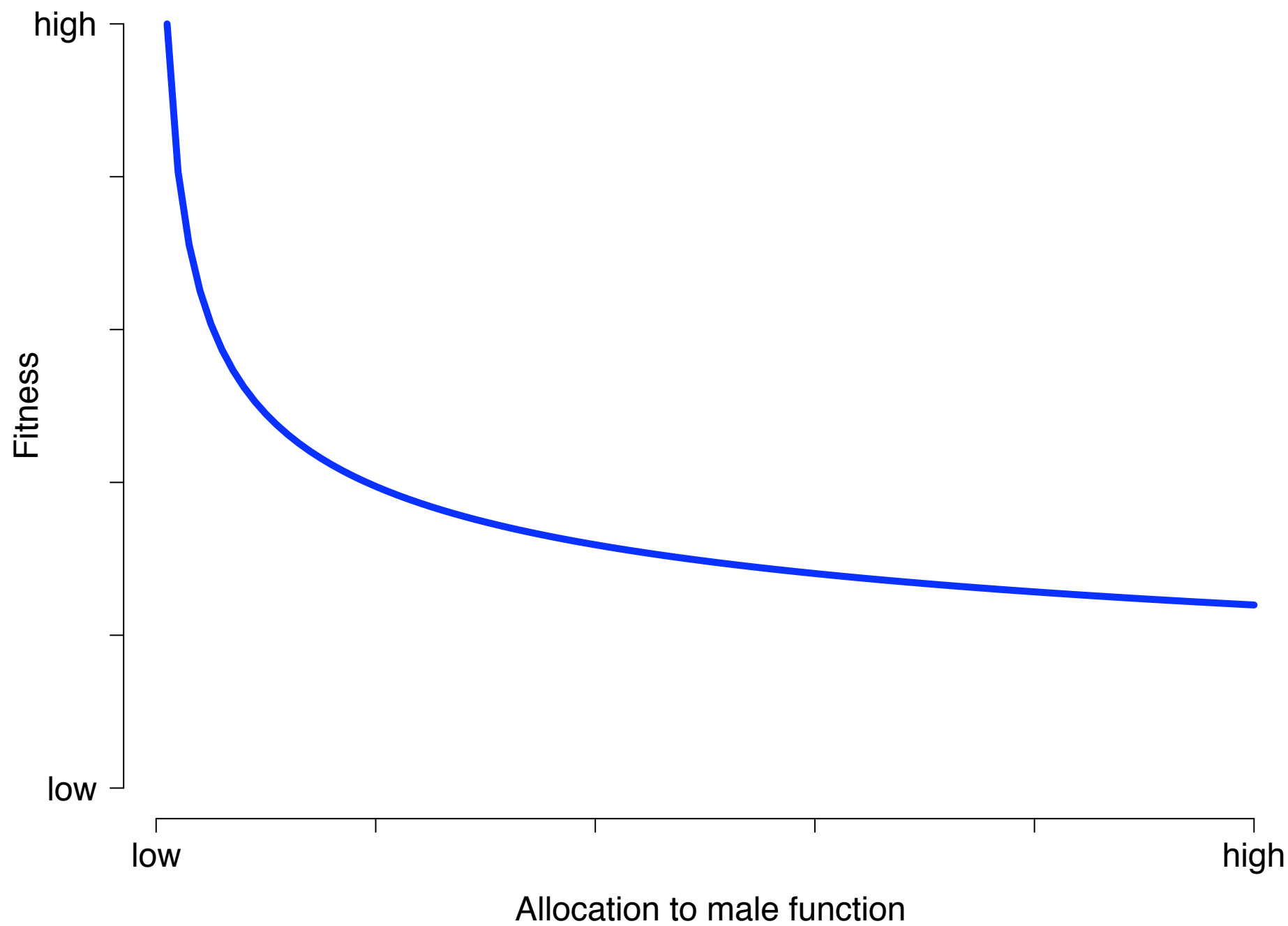




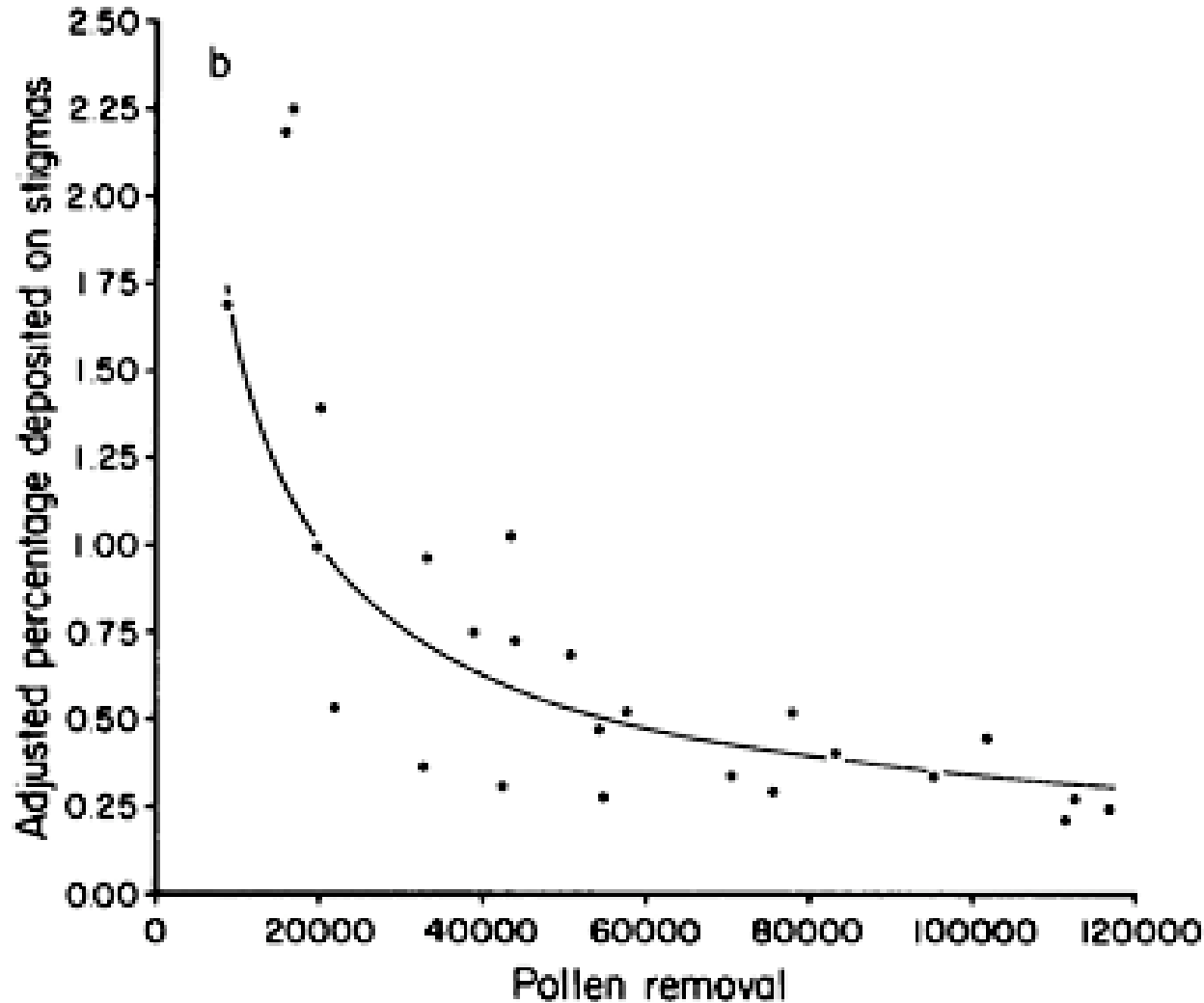


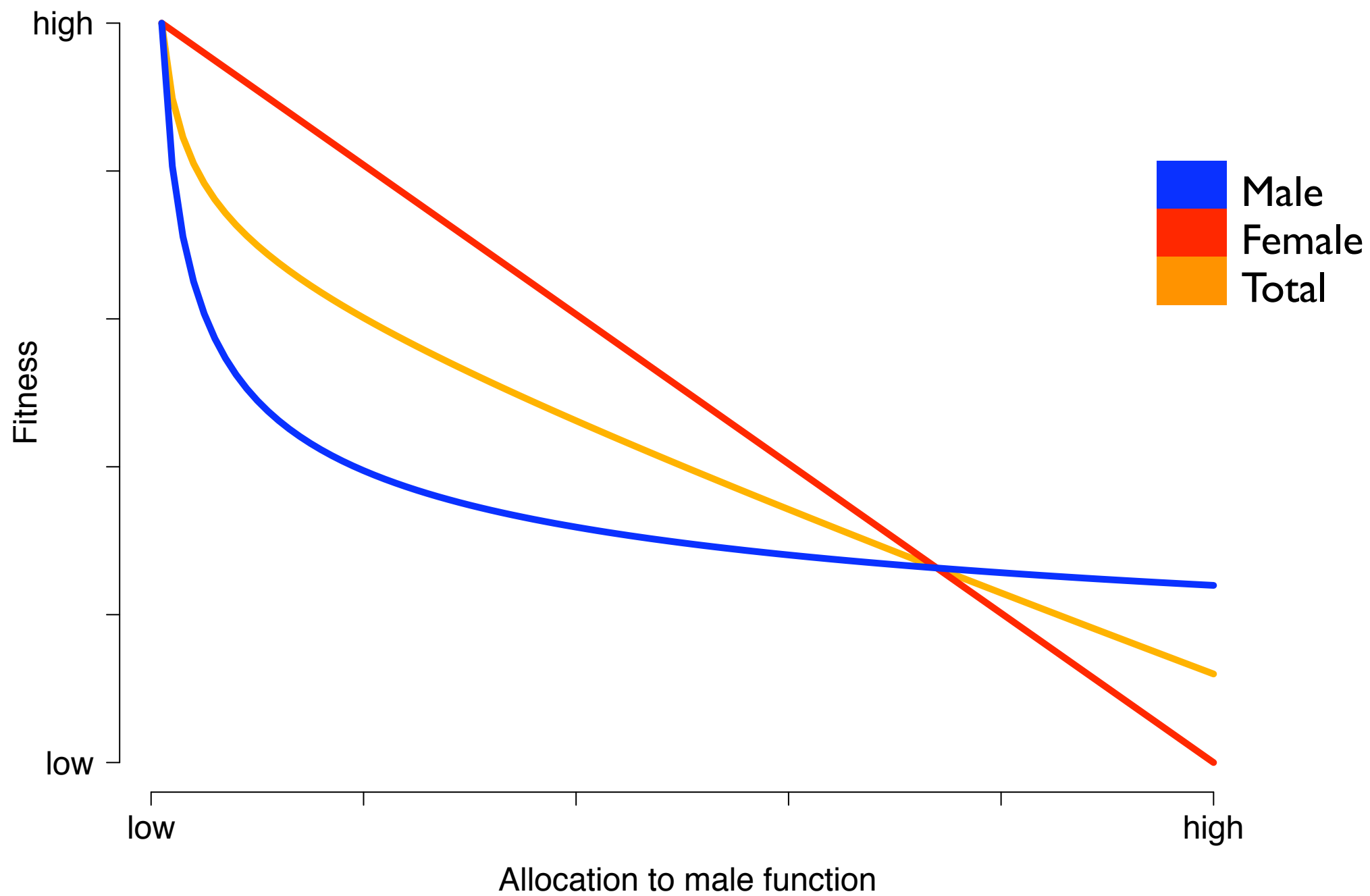






# Diminishing returns







# Why so many anthers?

- Male-male competition
- Pollinator attraction
- Structural feature
- Constraint

