

# Nature & Nurture

*Welcome!*

# Get to Know Us

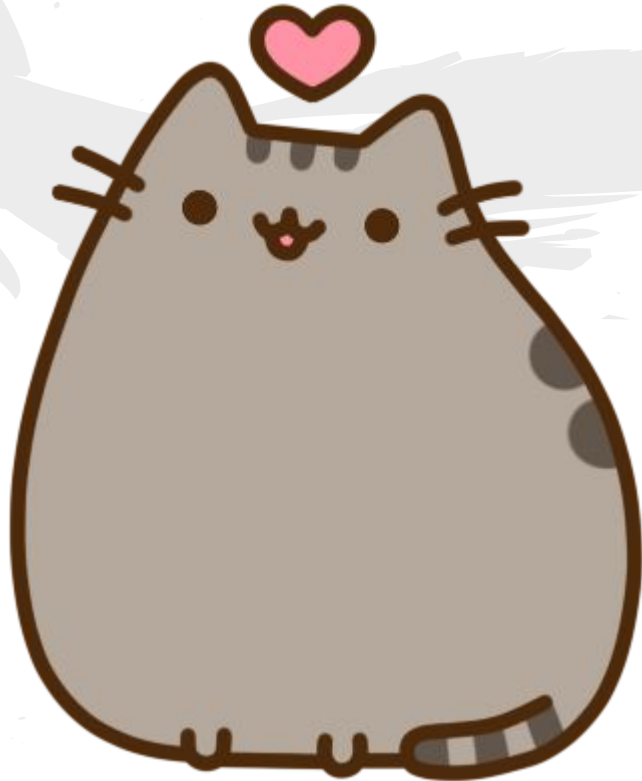


Lisa

$\Psi$



# Cat & Rosie



# In Groups of Two or Three

- What did you do over the summer?

# Rules

1. Take **at least** one M&M (as many as you want)
2. Don't eat any (yet).

# Tell Us About Yourself

- Name
- Major & Year
- 1 Fact about yourself per M&M

# Behavior Genetics

The study of the influence of an organism's **genetic composition on its behavior** and the **interaction of heredity and environment** insofar as they affect behavior.



# The Focus of This Class

## Human Behavior Genetics

The complex interactions between genes & environment; what makes you who you are?

What makes you different from your friend/sibling/parent/random stranger?

What makes you similar?

# Integrating Multiple Disciplines

- Genes
  - Proteins
  - Biochemistry
- 

- Family
- Neighborhood
- Society

# Added Fun

- Philosophy
- Ethics
- Cognition

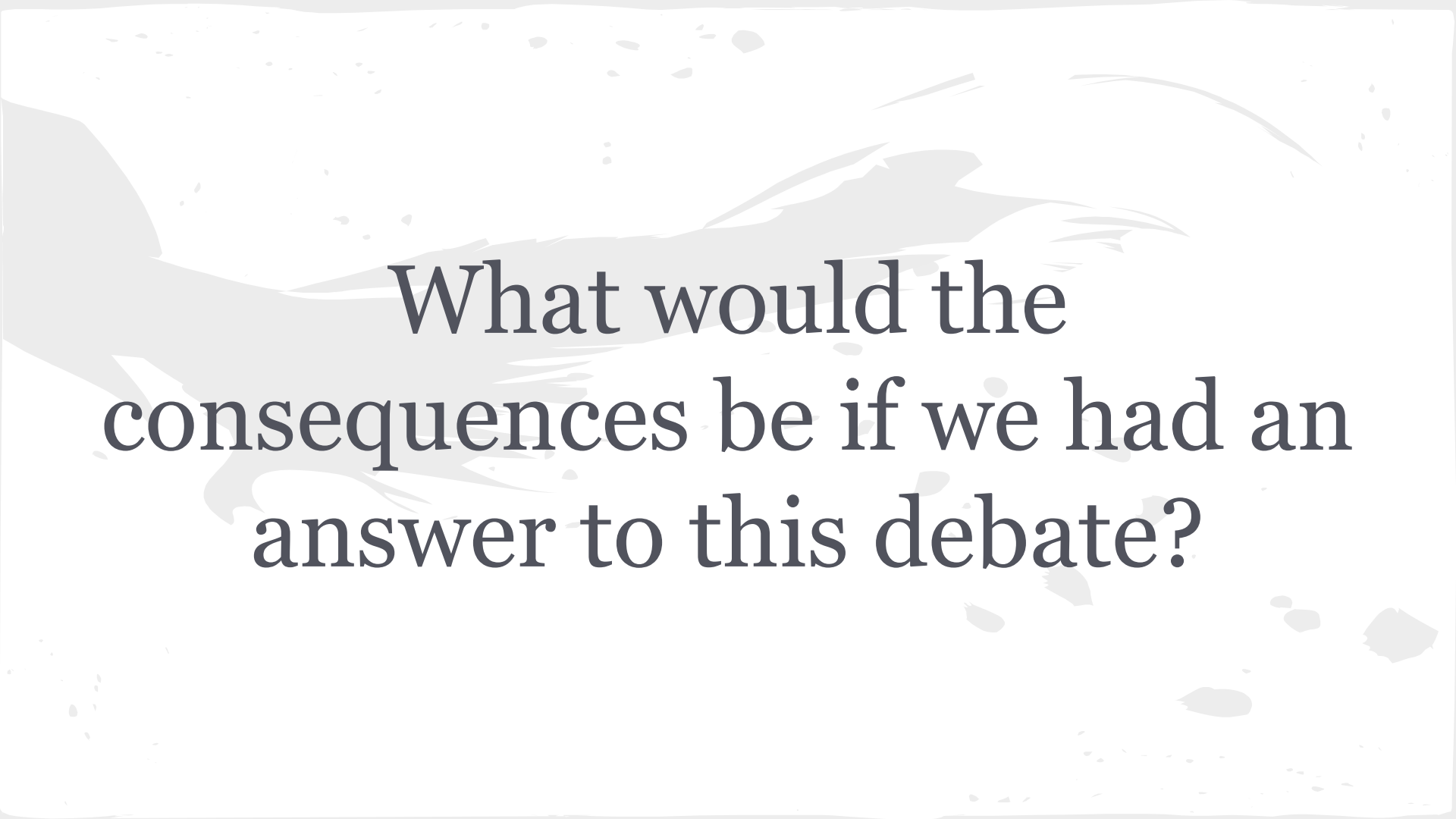
# Nature vs. Nurture

Which will overcome the other? Which is more important?





Which one do you think has been more important in your personal development?



What would the  
consequences be if we had an  
answer to this debate?

# We Are Rectangles

“Which contributes more to the area of a rectangle, its height or its width?”

Donald Hebb

# Next Week's Reading





# Phenylketonuria (PKU)

- Can't break down Phe
- Genetic disorder
- Symptoms: Seizures, brain damage, mental retardation





# Sociocultural Effects



0021-7557/12/88-04/353

Jornal de Pediatria

Copyright © by Sociedade Brasileira de Pediatria

ORIGINAL ARTICLE

## Relationships between phenylalanine levels, intelligence and socioeconomic status of patients with phenylketonuria

Isabel Pimenta Spínola Castro,<sup>1</sup> Juliana Martins Borges,<sup>2</sup> Heloísa Alves Chagas,<sup>2</sup>  
Jacqueline Tibúrcio,<sup>3</sup> Ana Lúcia Pimenta Starling,<sup>4</sup> Marcos José Burle de Aguiar<sup>5</sup>

Good Phe Control: 4.29x more likely to have medium/high IQ  
Higher SES: 4.03x more likely

# What are other implications of having PKU?

- Lack of autonomy
- Interpersonal deficits
- Mild cognitive deficits contribute

# Why Should I Take This Class?

- Self discovery
- Relevant material
- Community

# What Topics Will Be Covered?

Personality, Development & IQ, Language &  
Cognition, Social Relationships,  
Psychopathology, Epigenetics

# The Grading System

- Attendance - 30%
  - Can miss up to 2 classes
- Homework - 35%
  - 3-4 pg reading & ?'s
- “Debate” - 15%
- Final Project - 20%

# Enrollment

CCNs sent out tonight! Please register as soon as possible.





Genetics:  
Predetermined? Unchangeable?



# See You In 2 Weeks!

Please sign in!

Homework for 9/7:  
Height, Gopnik reading

Homework for 9/14:  
Baker reading