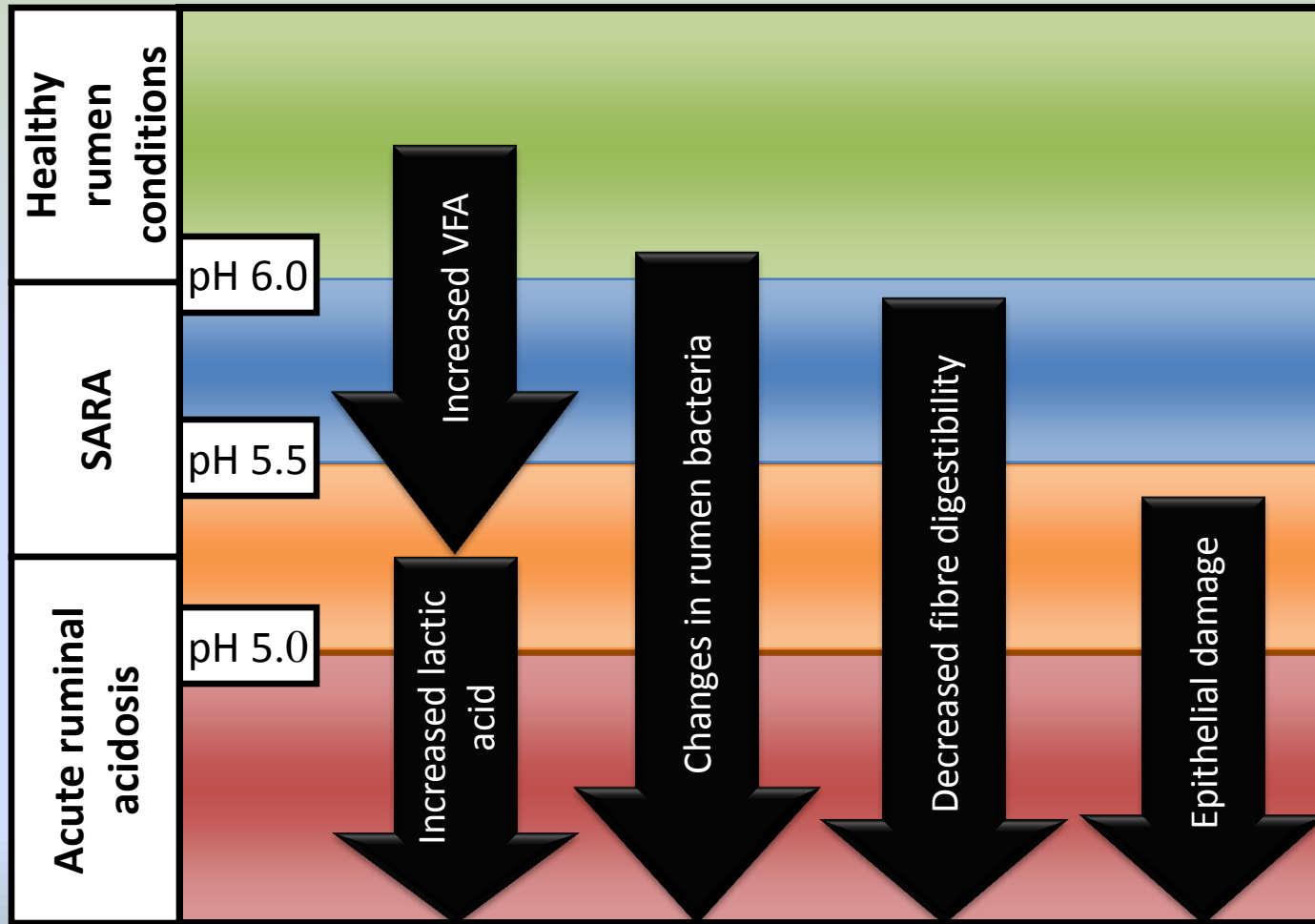


# Rumen acidosis, rumen bacteria and volatile fatty acids?

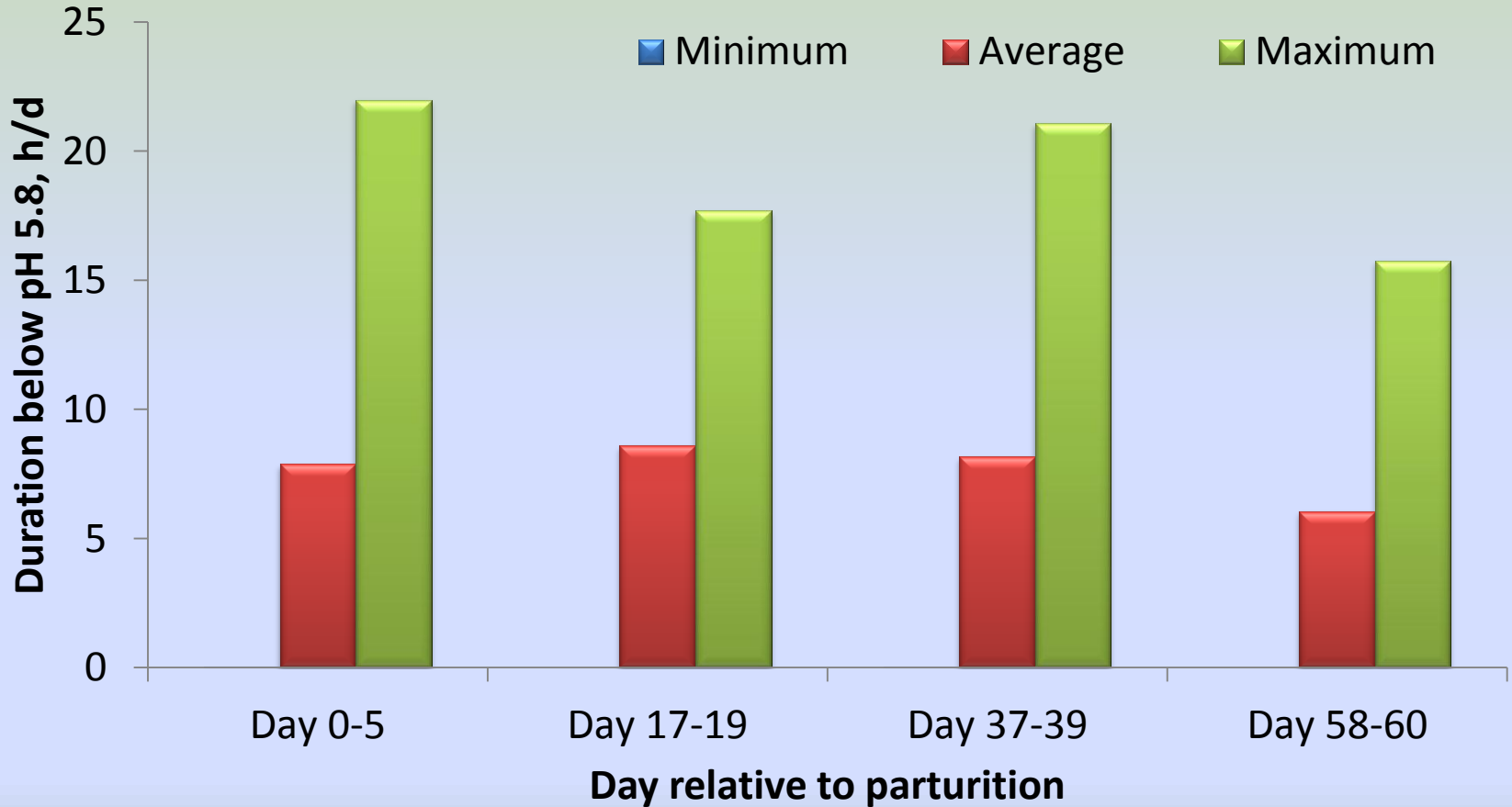
G.B. Penner

Assistant Professor of Ruminant Nutrition  
Department of Animal and Poultry Science

# Consequences of Ruminant Acidosis



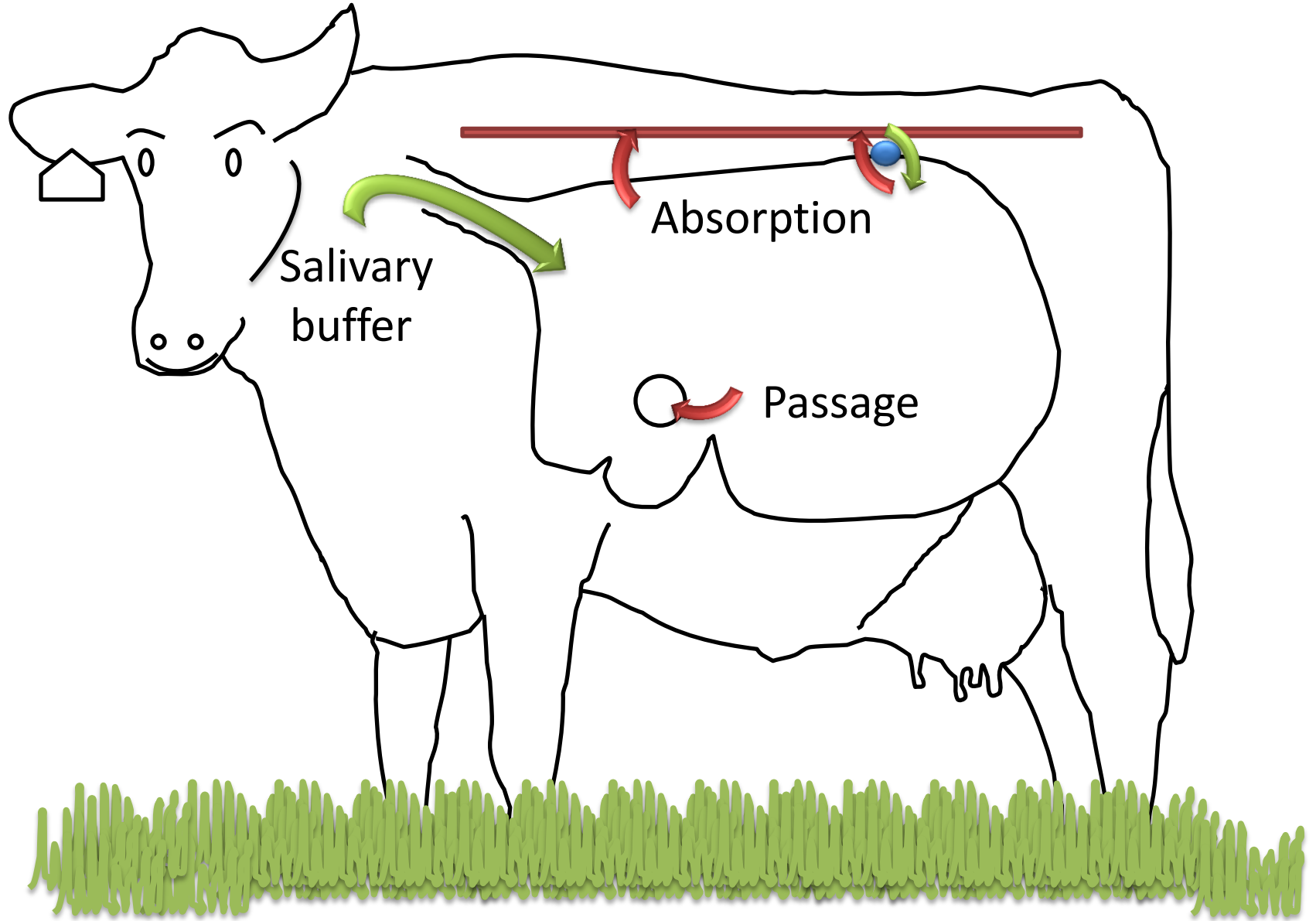
# Variation in the Severity of Ruminal Acidosis



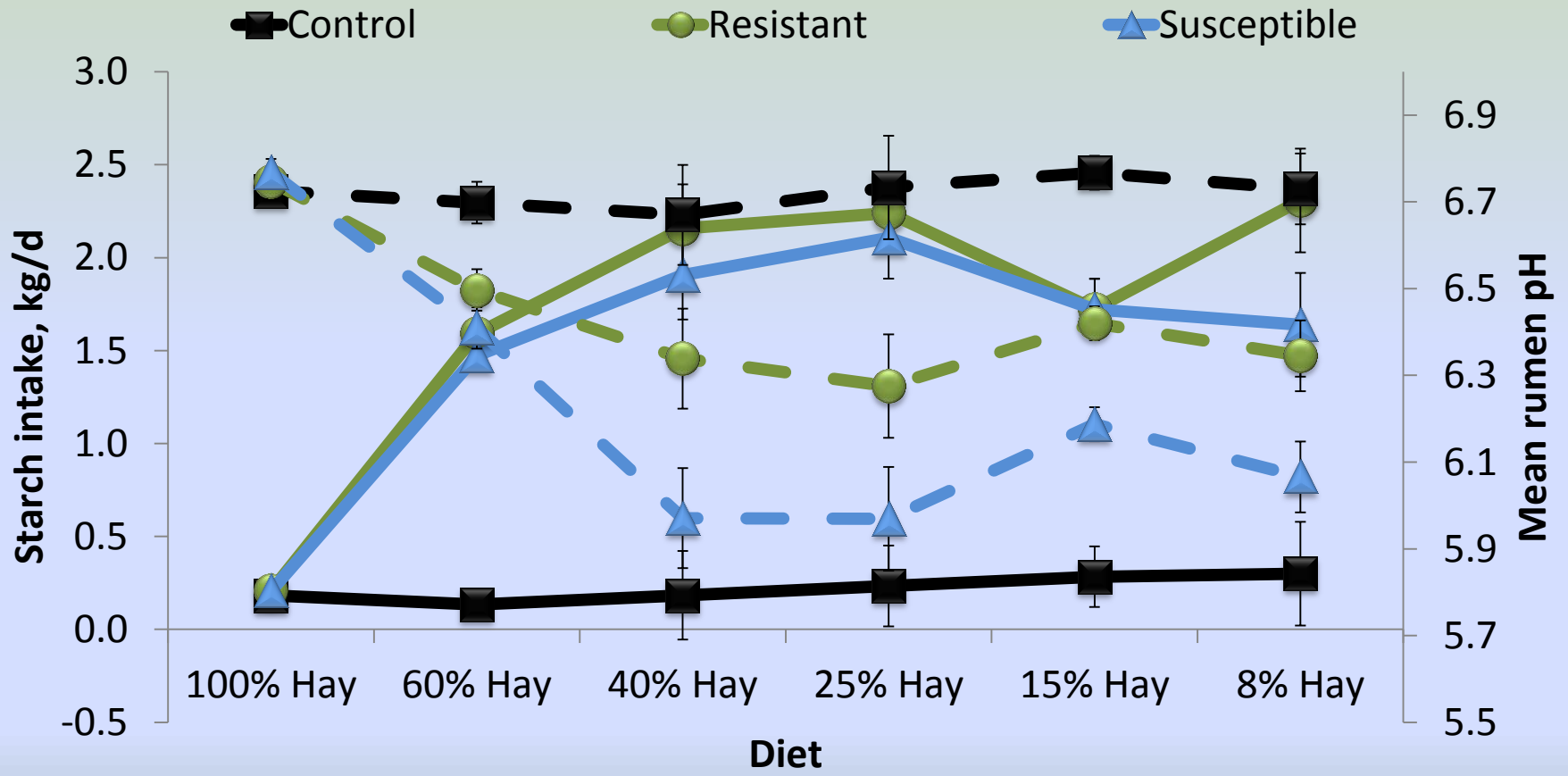
# Regulating Ruminal pH



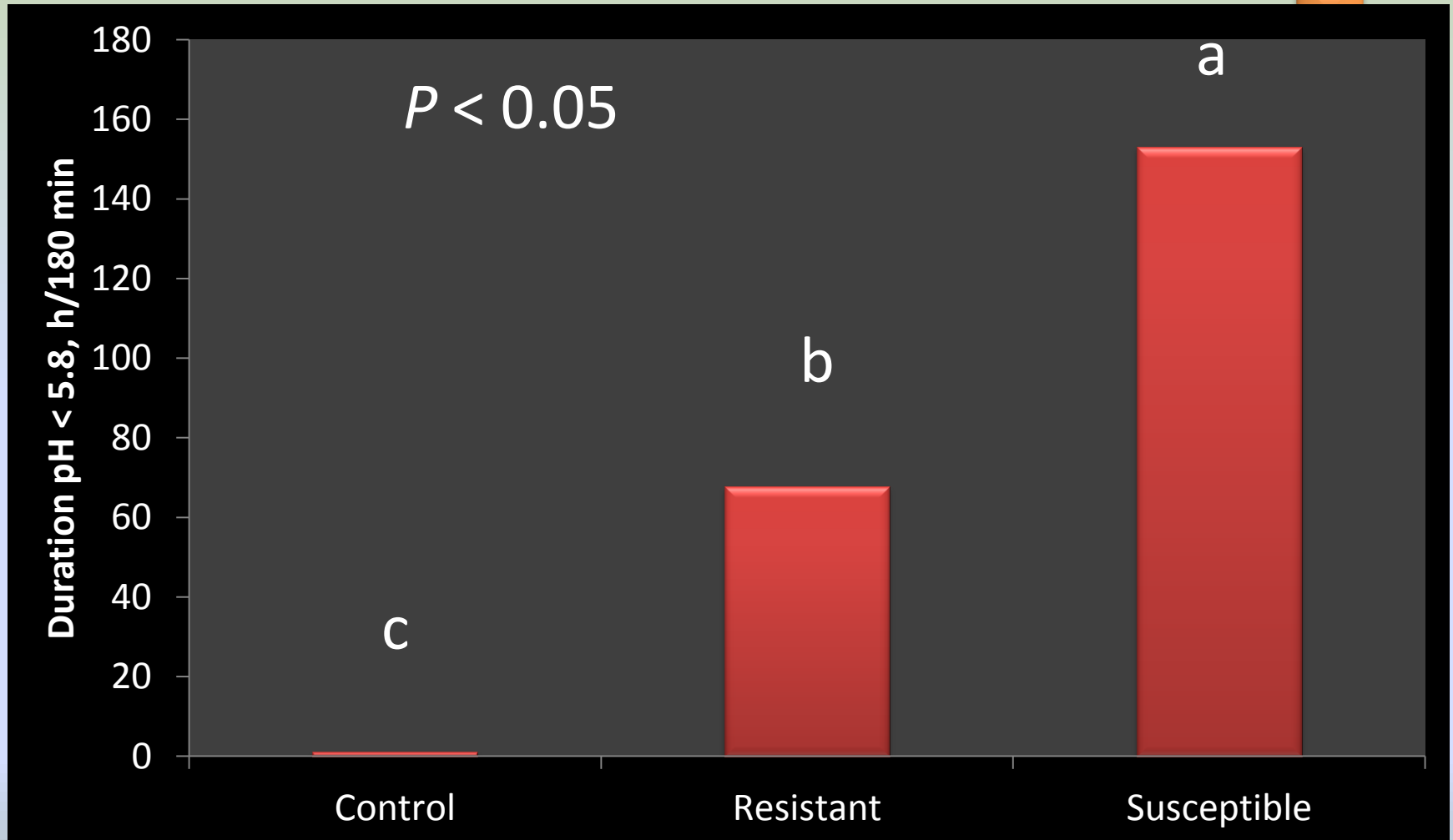
# Is the Response to Acidosis Consistent?



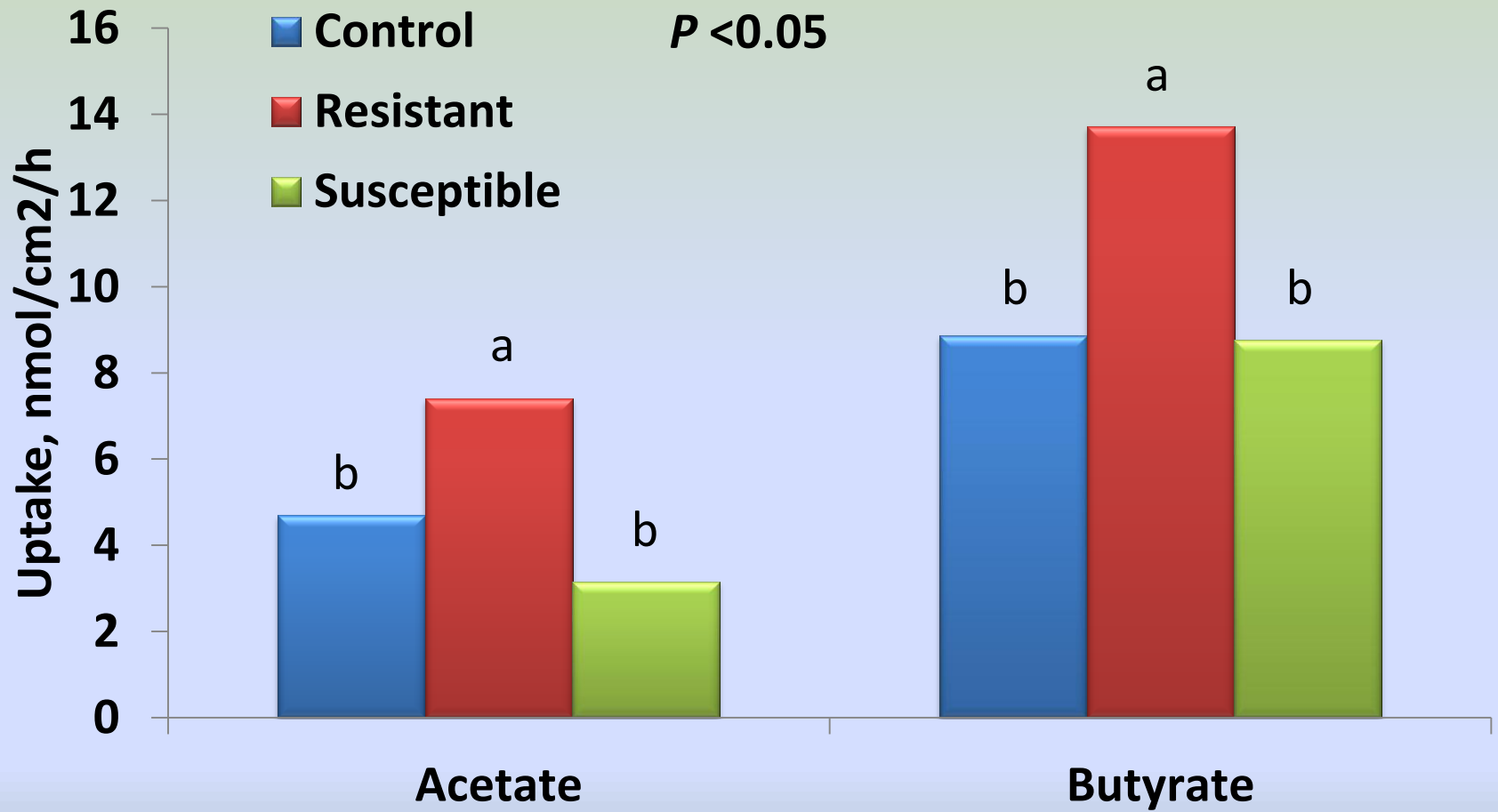
# Resistant vs. Susceptible Heifers



# Variation in Ruminant pH



# Absorption Explains Variation in Ruminal pH





# Take Home Messages

- Considerable variation among cows for the susceptibility to ruminal acidosis
- Variation in susceptibility is related to differences in the absorption of VFA across the rumen wall
- Future approaches
  - Identify animals based on their susceptibility
  - Develop strategies to improve rumen function

Thank You!