## Cleveland Metroparks Zoo Science Program Update





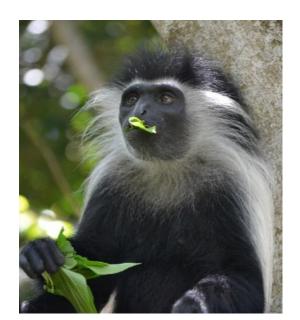


## Diet, behavior, and health of colobine monkeys

- Multi-institutional assessment of health concerns in colobus monkeys
- Evaluate the variation in diet and leafy browse offerings for colobus monkeys and langurs among AZA facilities
- Determine the relative impact of phylogeny, diet, and environment on the composition of the gut microbiome and markers of gastrointestinal health
- Work with AEM TAG to improve diets and health of these populations across AZA













Gorilla health and behavior

- Regurgitation and reingestion behavior
  - ► Recent graduate Kaylin Tennant examined insulin response via oral sugar tests (first assessments ever conducted on gorillas!)
  - As a post-doctoral research fellow, Tennant will assess salivary insulin levels and rates of R/R across the AZA population
- Heart disease research
  - Defined normal echocardiographic parameters
  - Identified association between adiposity and heart disease in male gorillas
  - Discovered gorilla gut microbiome composition is associated with heart disease



Artwork: Claire Merchlinsky for The Atlantic







## **Teaching**

Undergraduate, graduate, and professional student courses









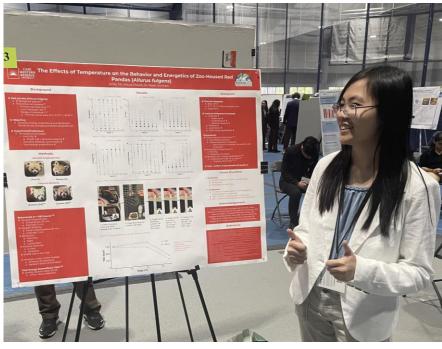












## Mentorship & Training

- 3 post-doctoral research fellows
- ▶ 6 Ph.D. level scientists through joint program with CWRU
- ▶ 5 CWRU undergraduate capstone student projects completed in last 5 years
- ▶ 1-2 students/summer Veterinary students through relationship with ØSU
- ▶ 10-12 students/year in Dian Fossey Gorilla Fund Memoirs Program
- Summer behavior science project training for Zoo Crew teens

