

Group Activity

A fun case-study activity to meet new people and apply what you have learned!

GDW 2017: Horizon Scan



American
Genetic
Association

Journal of Heredity, 2019, 261–274

doi:10.1093/jhered/esz001

Perspective

Advance Access publication January 12, 2019

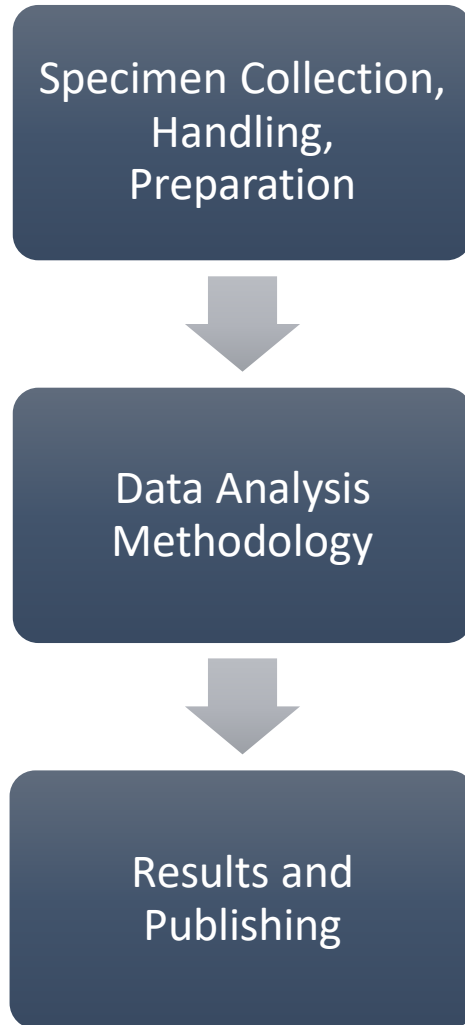
Perspective

The Expectations and Challenges of Wildlife Disease Research in the Era of Genomics: Forecasting with a Horizon Scan-like Exercise

Robert R. Fitak^{*}, Jennifer D. Antonides, Eric J. Baitchman, Elisa Bonaccorso, Josephine Braun, Steven Kubiski, Elliott Chiu, Anna C. Fagre, Roderick B. Gagne, Justin S. Lee, Jennifer L. Malmberg, Mark D. Stenglein, Robert J. Dusek, David Forgacs, Nicholas M. Fountain-Jones, Marie L. J. Gilbertson, Katherine E. L. Worsley-Tonks, W. Chris Funk, Daryl R. Trumbo, Bruno M. Gherzi, Wray Grimaldi, Sara E. Heisel, Claire M. Jardine, Pauline L. Kamath, Dibesh Karmacharya, Christopher P. Kozakiewicz, Simona Kraberger, Dagan A. Loisel, Cait McDonald, Steven Miller, Devon O'Rourke, Caitlin N. Ott-Conn, Mónica Páez-Vacas, Alison J. Peel, Wendy C. Turner, Meredith C. VanAcker, Sue VandeWoude, and Jill Pecon-Slaterry



GDW 2018: Best Practices



GDW 2019: Project Roulette



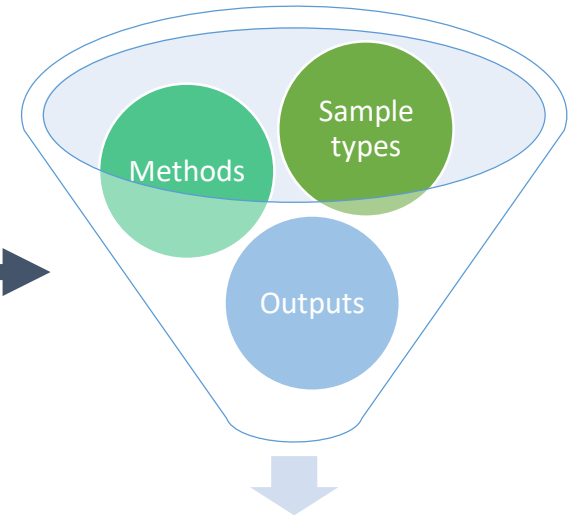
Pathogen resistance in a re-discovered tarsier species



Vector-borne disease outbreak in indigo snakes

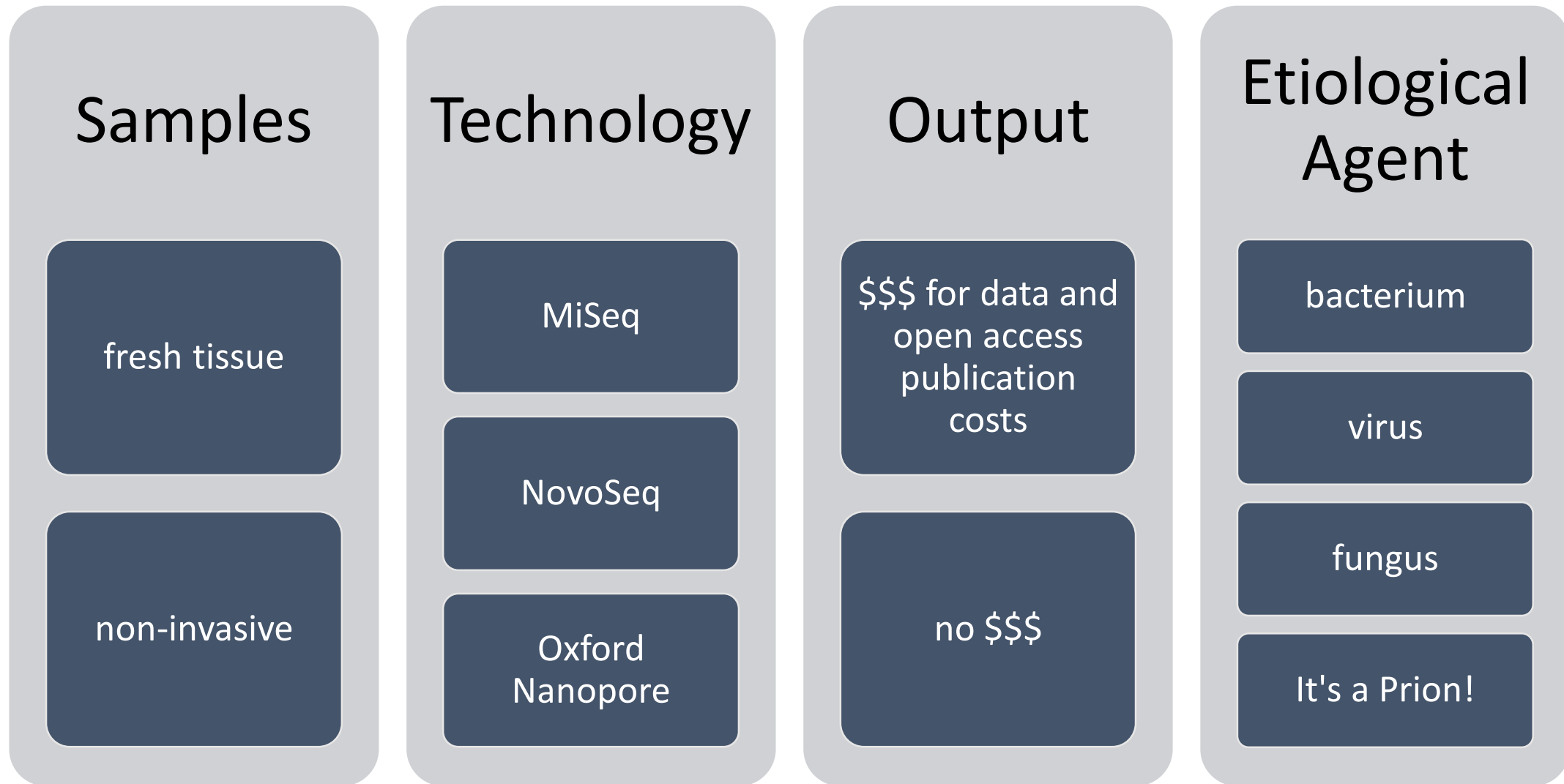


Permafrost pathogen outbreak!



Project Design

GDW 2019: Project Roulette



GDW 2021: Rapid Response Proposals

Two wildlife disease outbreak scenarios

- **Scenario 1:** Indigo snake vector-borne disease
- **Scenario 2:** Permafrost disease outbreak

NSF-style Proposal Development

- 3 groups of 4-5 people for each scenario
- Each group proposed a genomics study to identify/control/mitigate the outbreak.

Proposal "Review" Panel (Presentations)

- The audience anonymously scored proposals
- Scores \approx CSU swag!

GDW 2023: Back to Basics



Retroviral resistance in a re-discovered tarsier species



Vector-borne bacterial outbreak in indigo snakes



Permafrost pathogen outbreak!



Viral biocontrol of an invasive rat species



mysterious bat mortality event

Final Presentations: Saturday (15 min + 5 Q&A)



What is your scenario?

What are your questions/hypotheses?



Study design

- Sample types
- Sequencing (how much/what kind?)
- Types of analyses

Research dissemination

- Where will you publish?
- How will you make your data and analyses available?



Randomly Assigned Groups

