Lethal Antimicrobials and the Generality of Cellular Toxicity

Zachary T. Wildman, Megan A. Pasternak, Justin L. Rheubert, Robert A. Charvat
Organismal and Integrative Laboratory for Evolutionary Research

Acknowledgements

❖ The authors would like to thank the University of Findlay’s Department of Biology and College of Sciences for all support provided.
❖ The authors would also like to thank CUR and Kennesaw State University for this opportunity.
❖ Additionally, thank you to Michael F. Meyer at Washington State University for aid in experimental design.

Antibacterial Effectiveness (% of total tests/species)

- Elapidae IV
  - $R^2 = 0.071$
  - $P = 0.40$

- Elapidae IP
  - $R^2 = 0.000$
  - $P = 0.95$

- Elapidae SubQ
  - $R^2 = 0.036$
  - $P = 0.56$

- Colubroidea IV
  - $R^2 = 0.106$
  - $P = 0.11$

- Colubroidea IP
  - $R^2 = 0.024$
  - $P = 0.47$

- Colubroidea SubQ
  - $R^2 = 0.600$
  - $P = 0.34$

- Viperidae IV
  - $R^2 = 0.365$
  - $P = 0.02$

- Viperidae IP
  - $R^2 = 0.345$
  - $P = 0.03$

- Viperidae SubQ
  - $R^2 = 0.269$
  - $P = 0.07$

Log $LD_{50}$