

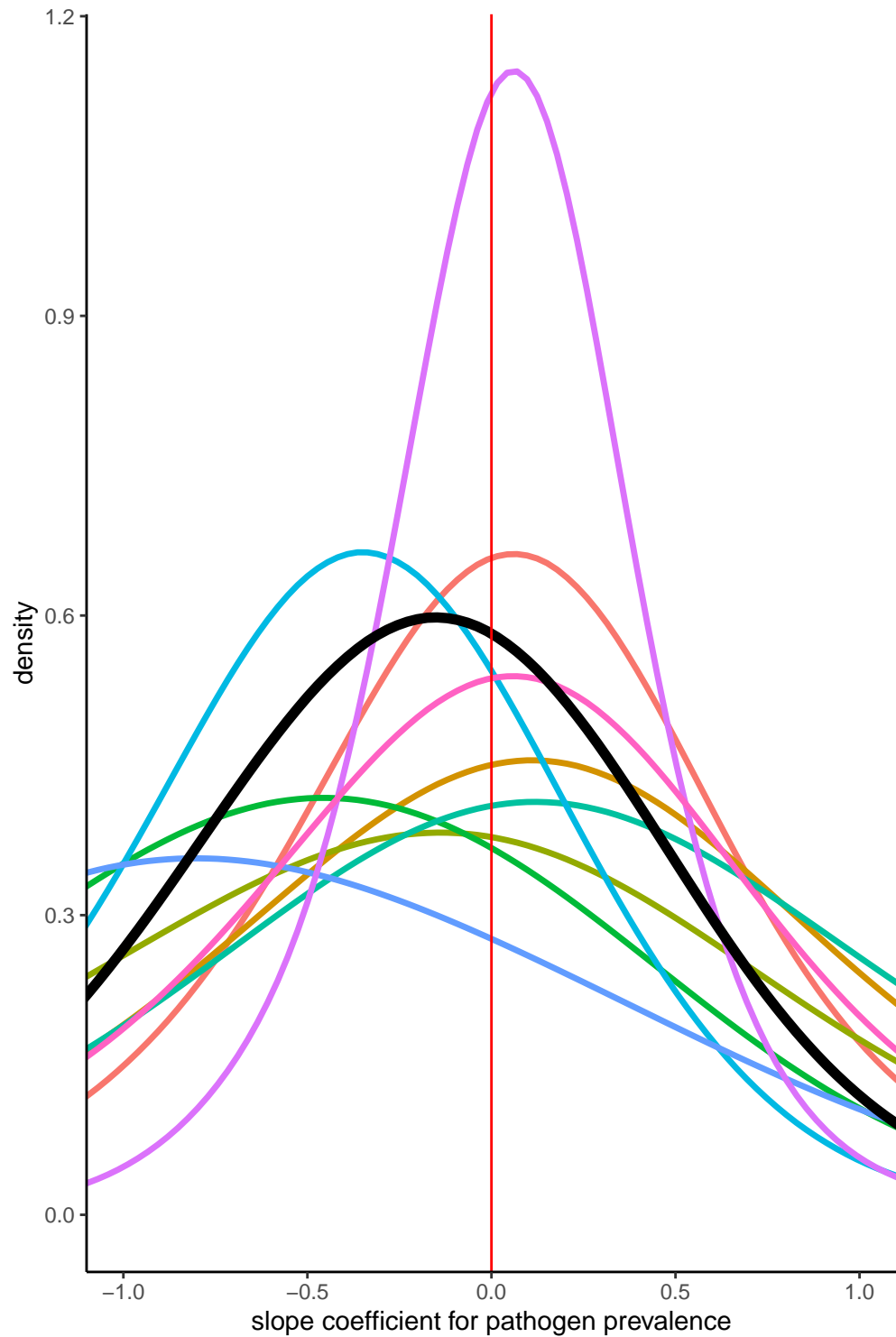
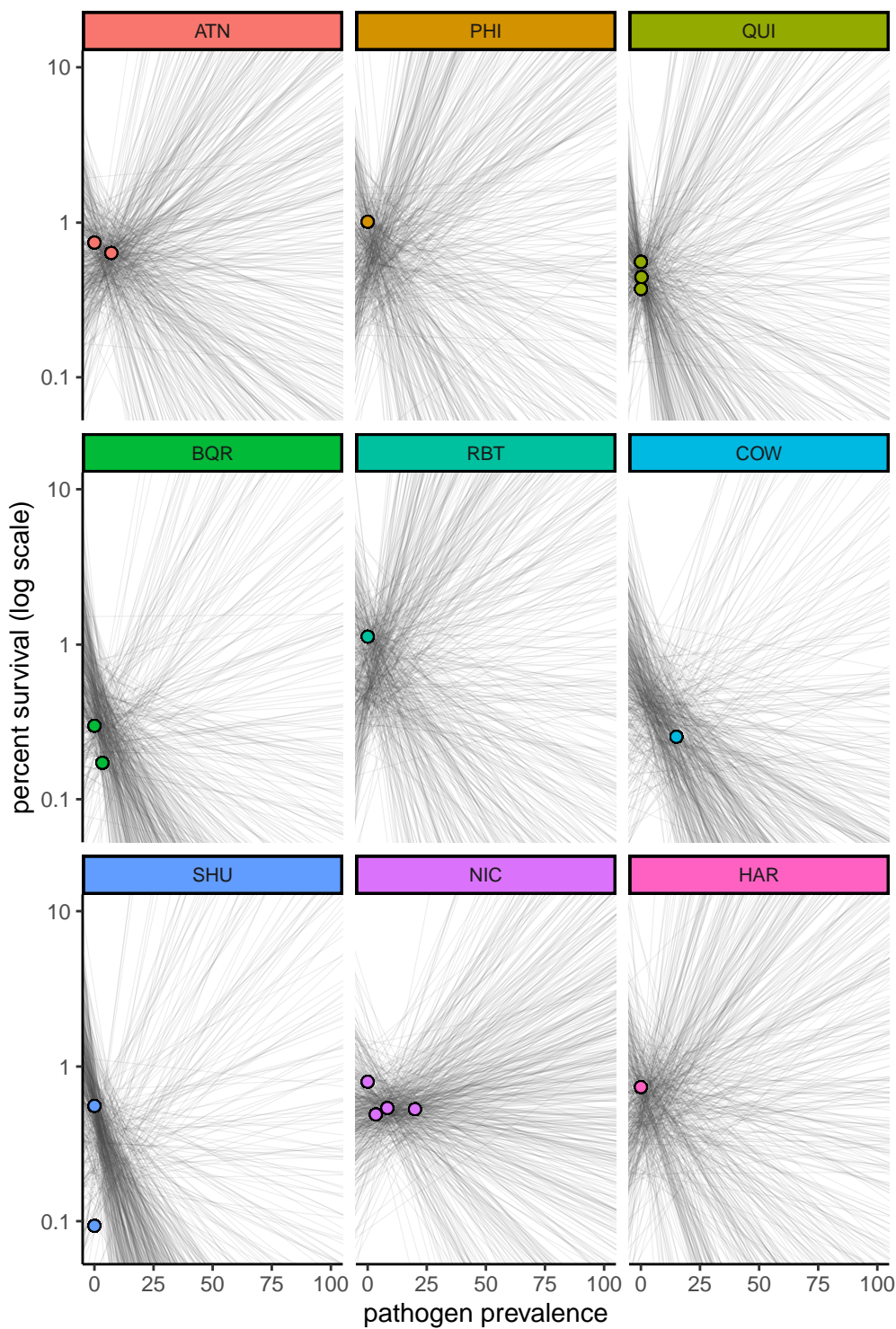
## **Supplementary Material 2: Chinook survival model figures**

### **"Identification of infectious agents in early marine Chinook and Coho salmon associated with cohort survival"**

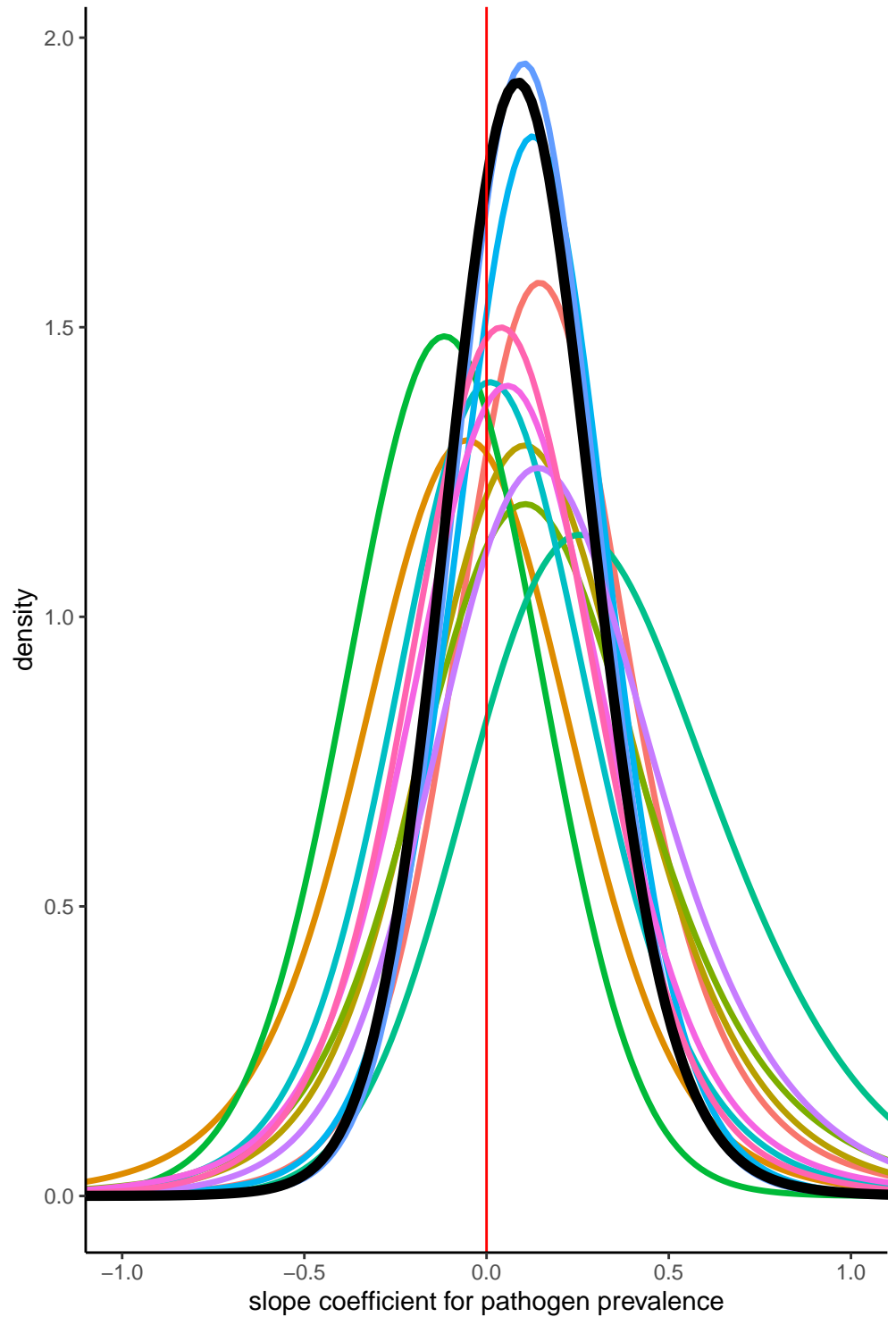
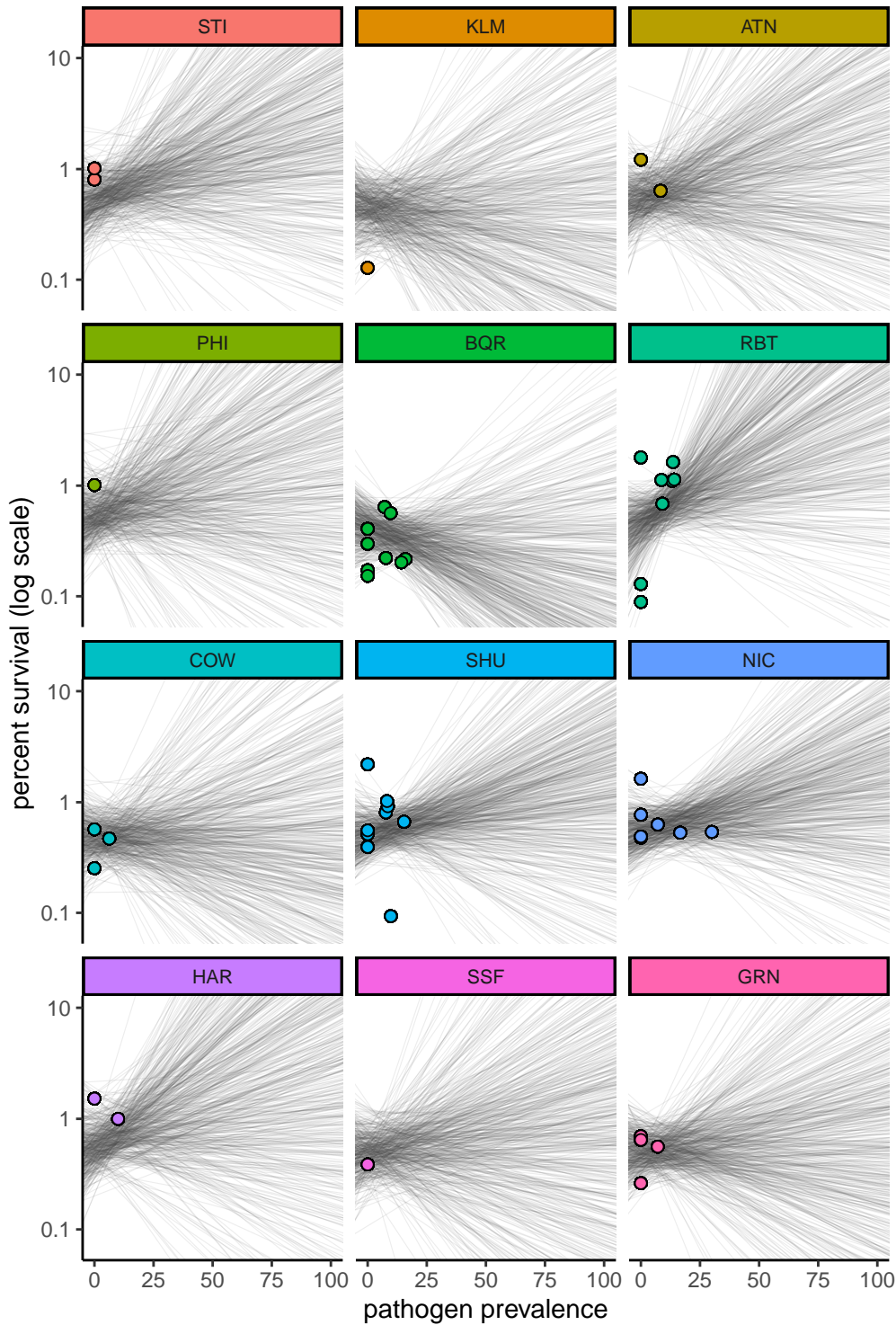
Arthur L. Bass, Andrew W. Bateman, Brendan M. Connors, Benjamin A. Staton, Eric B. Rondeau, Gideon J. Mordecai, Amy K. Teffer, Karia H. Kaukinen, Shaorong Li, Amy M. Tabata, David A. Patterson, Scott G. Hinch, Kristina M. Miller

**Description:** Bayesian multi-level model results from Chinook survival models. Raw data (points) are presented in left panels and model results are presented in right panels (heavy black line indicates the posterior distribution of the hyperdistribution mean). Lines in left panels represent 1000 random draws from the posterior distributions of the stock-specific intercepts and slopes. Slope coefficient for the right panel is relative to a 10% increase in pathogen prevalence.

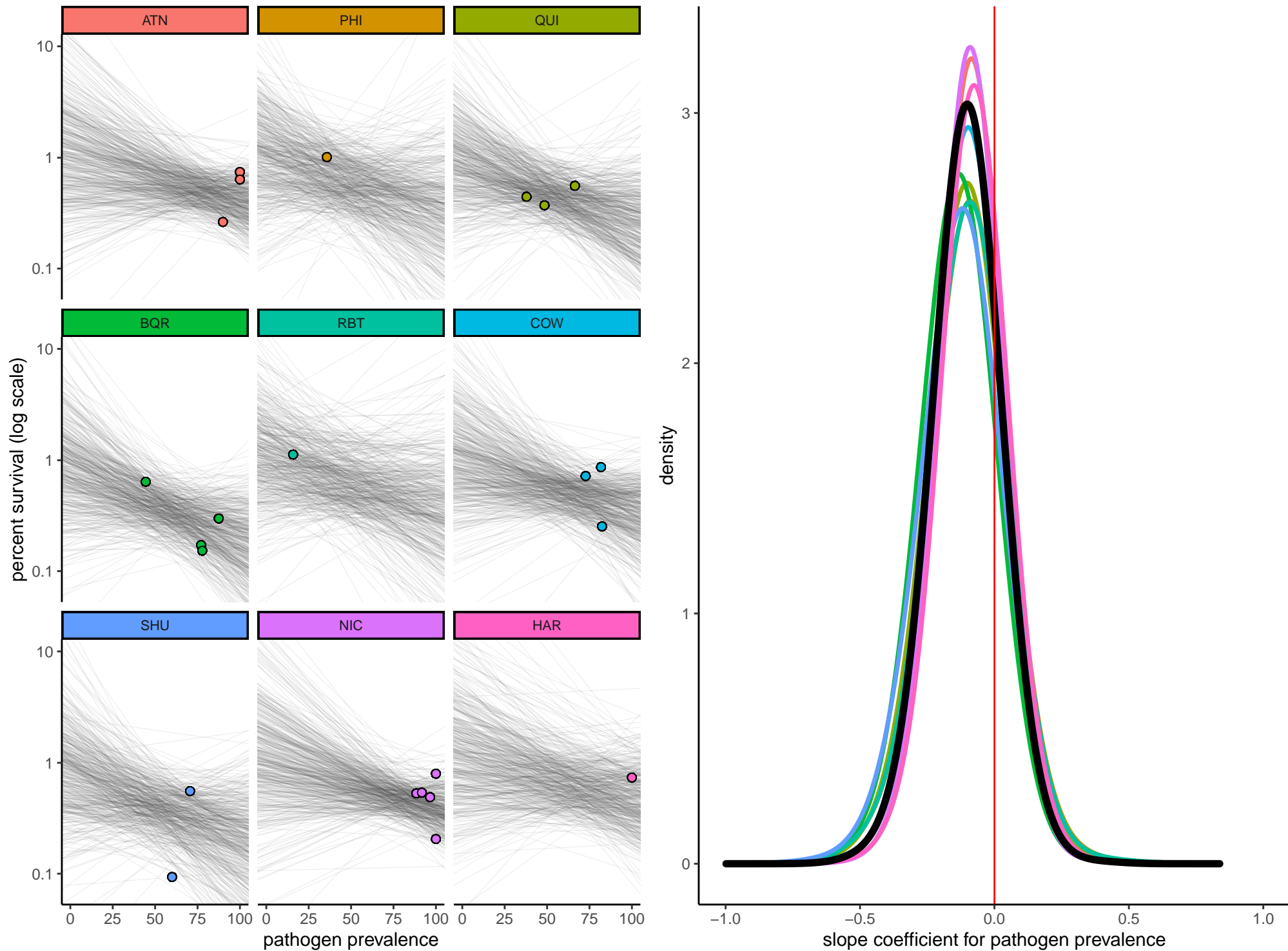
### Salmon Pescarenavirus 1 SpSu



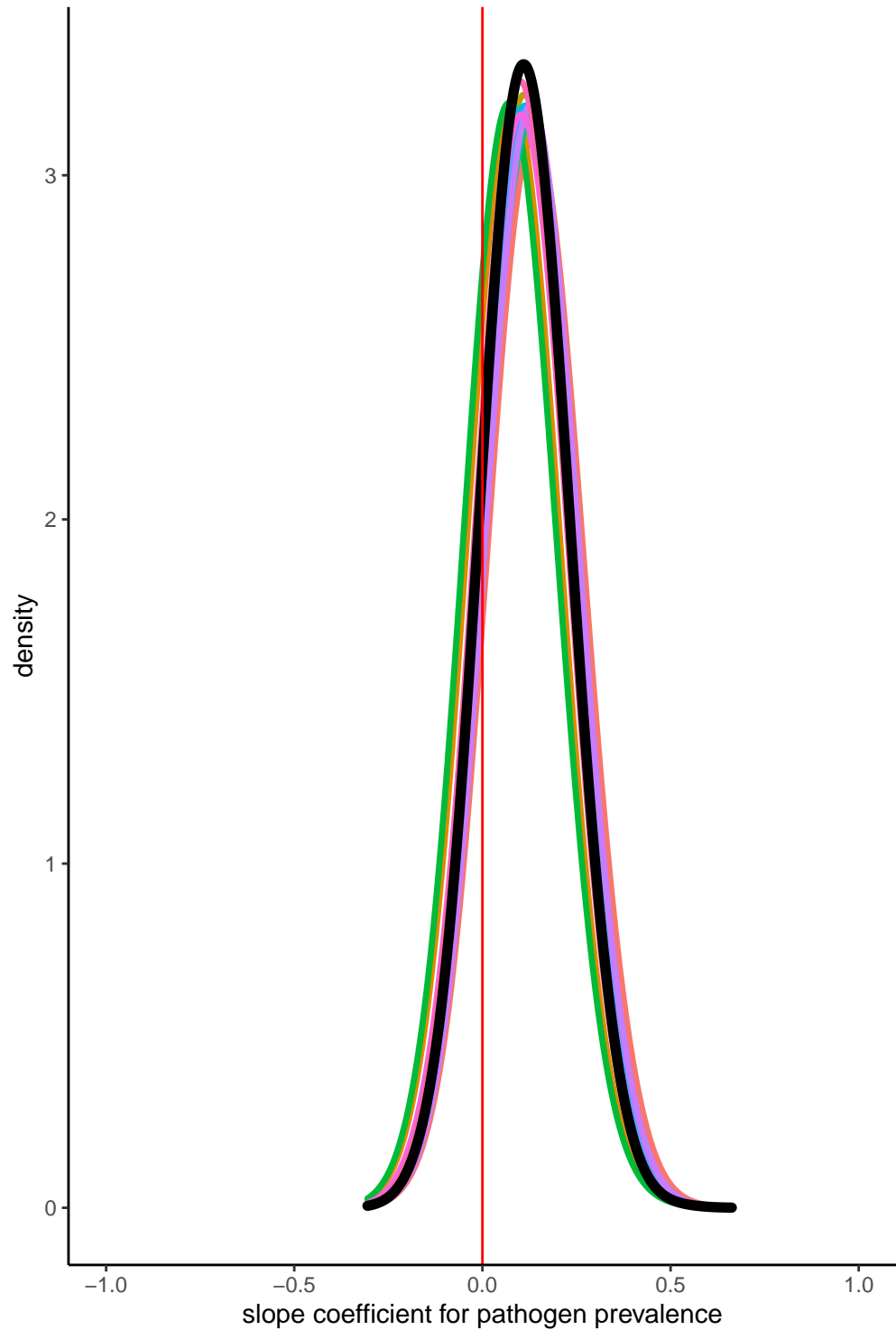
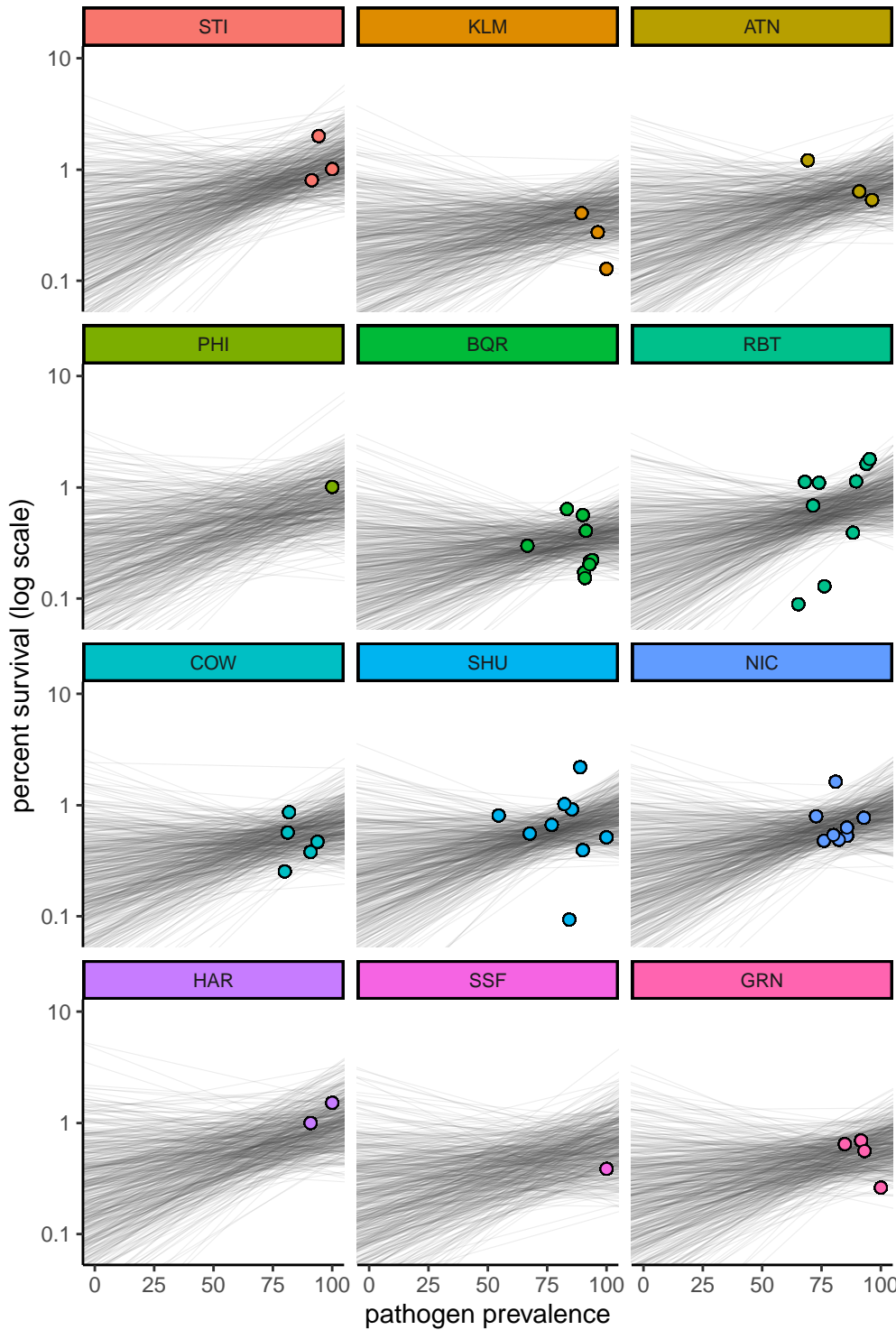
# Salmon Pescarenavirus 1 FaWi



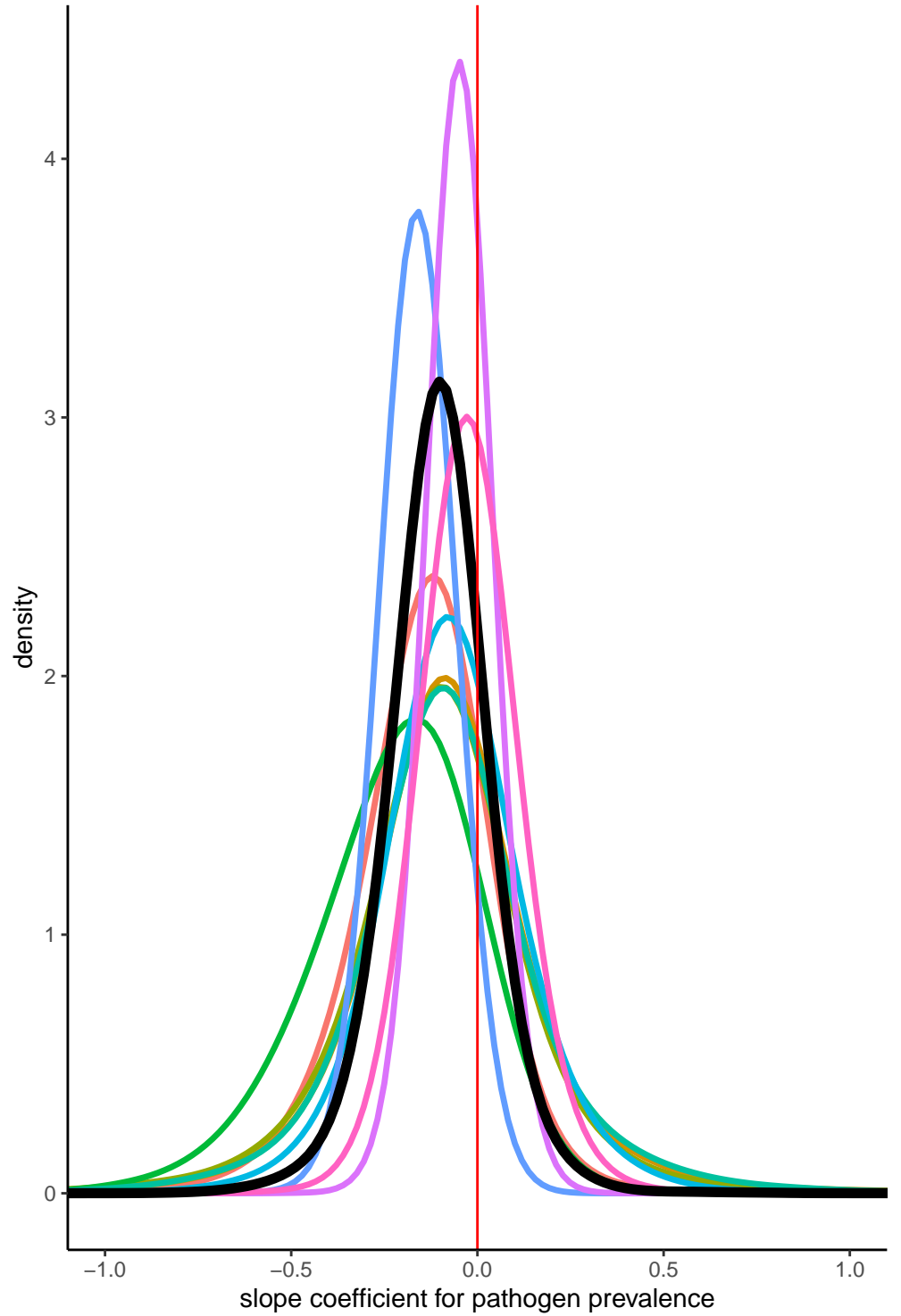
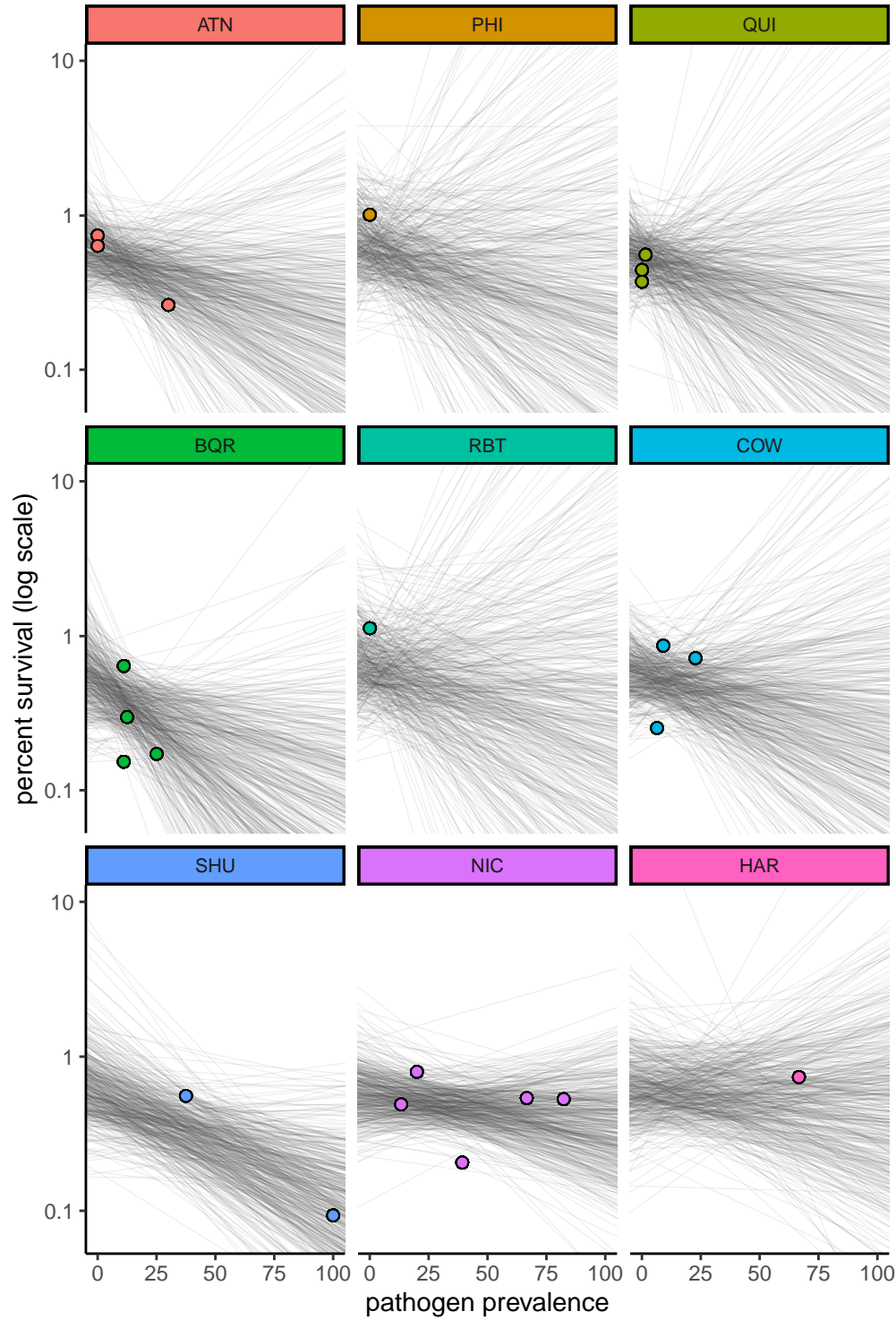
Candidatus Branchiomonas cysticola SpSu



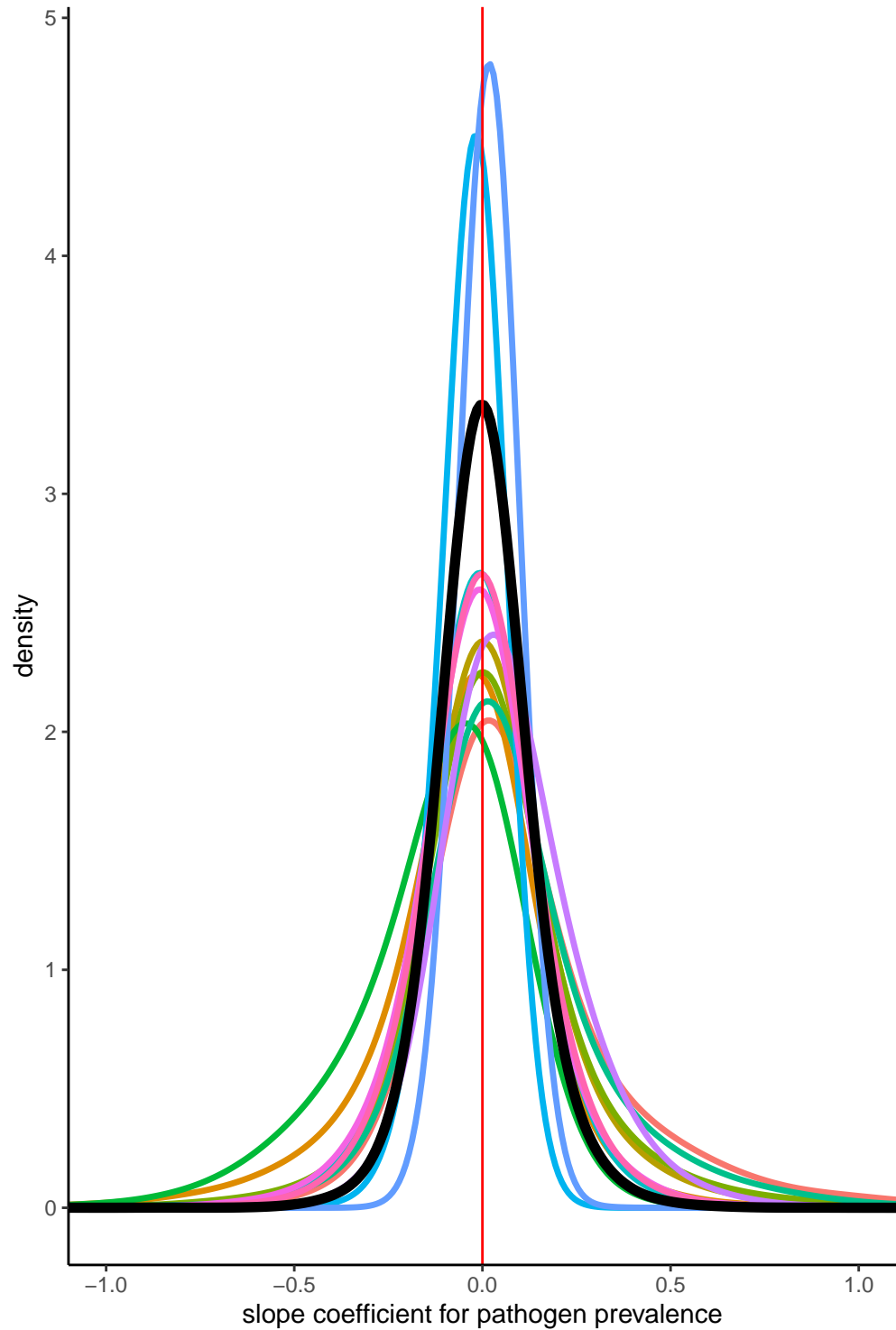
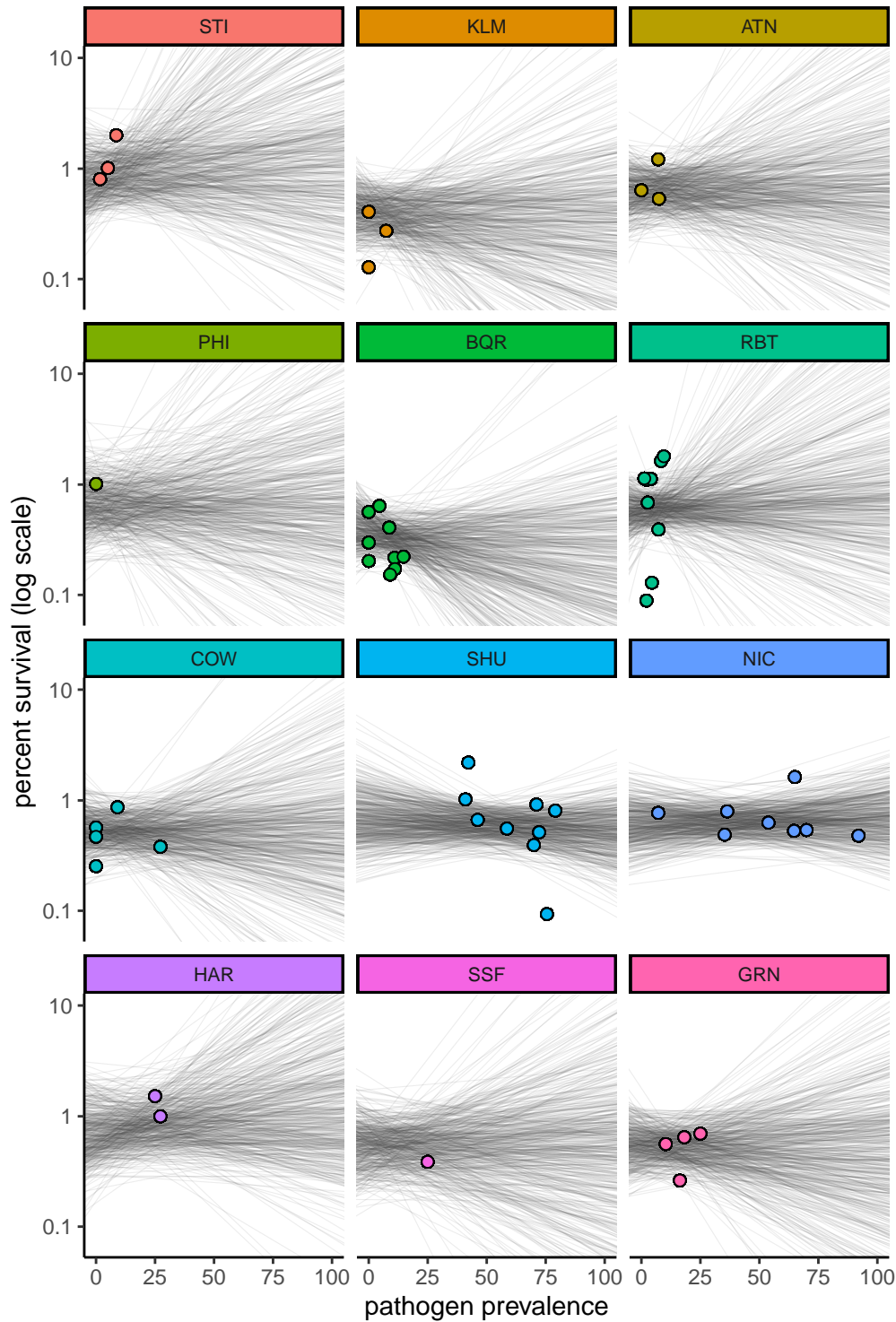
Candidatus Branchiomonas cysticola FaWi



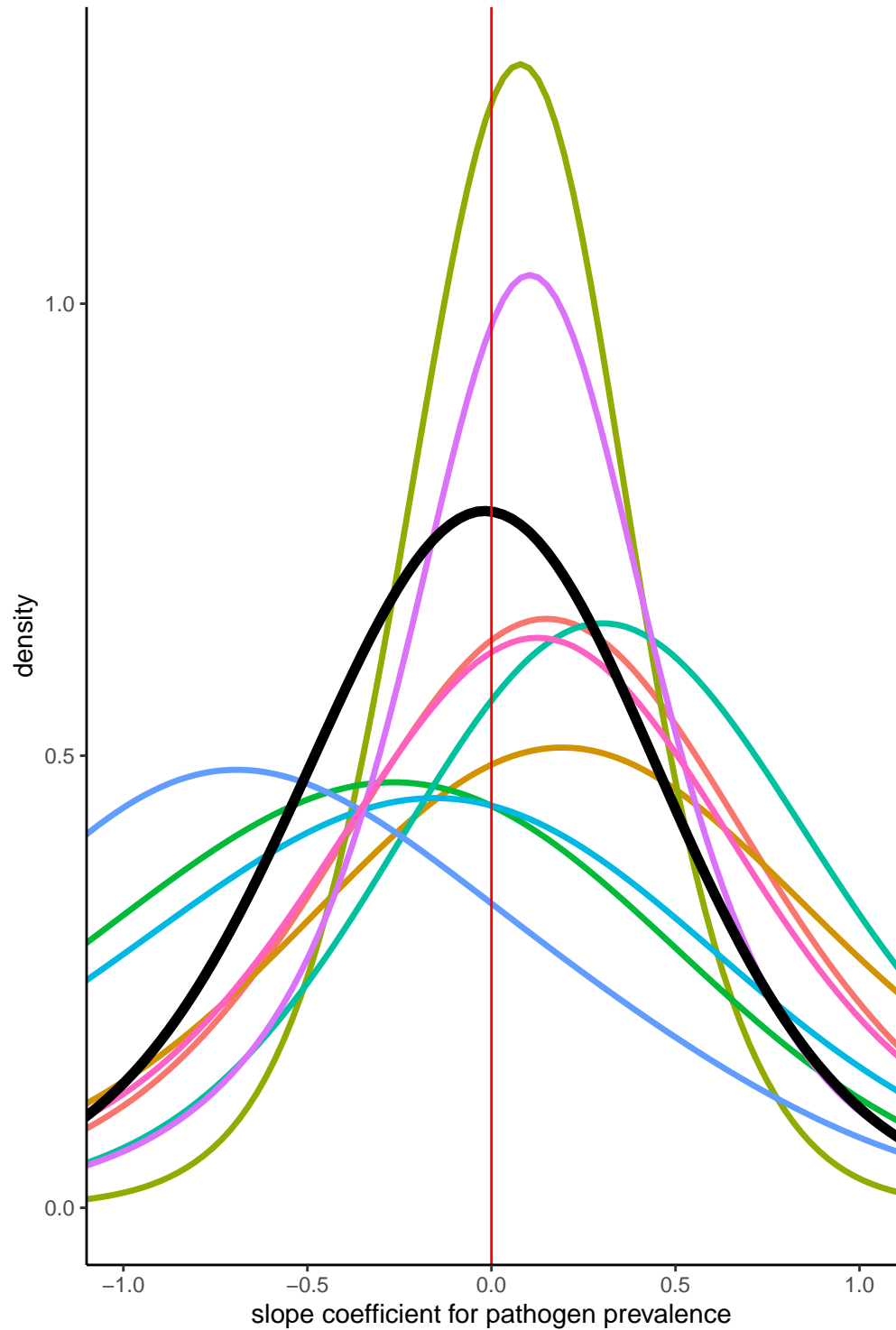
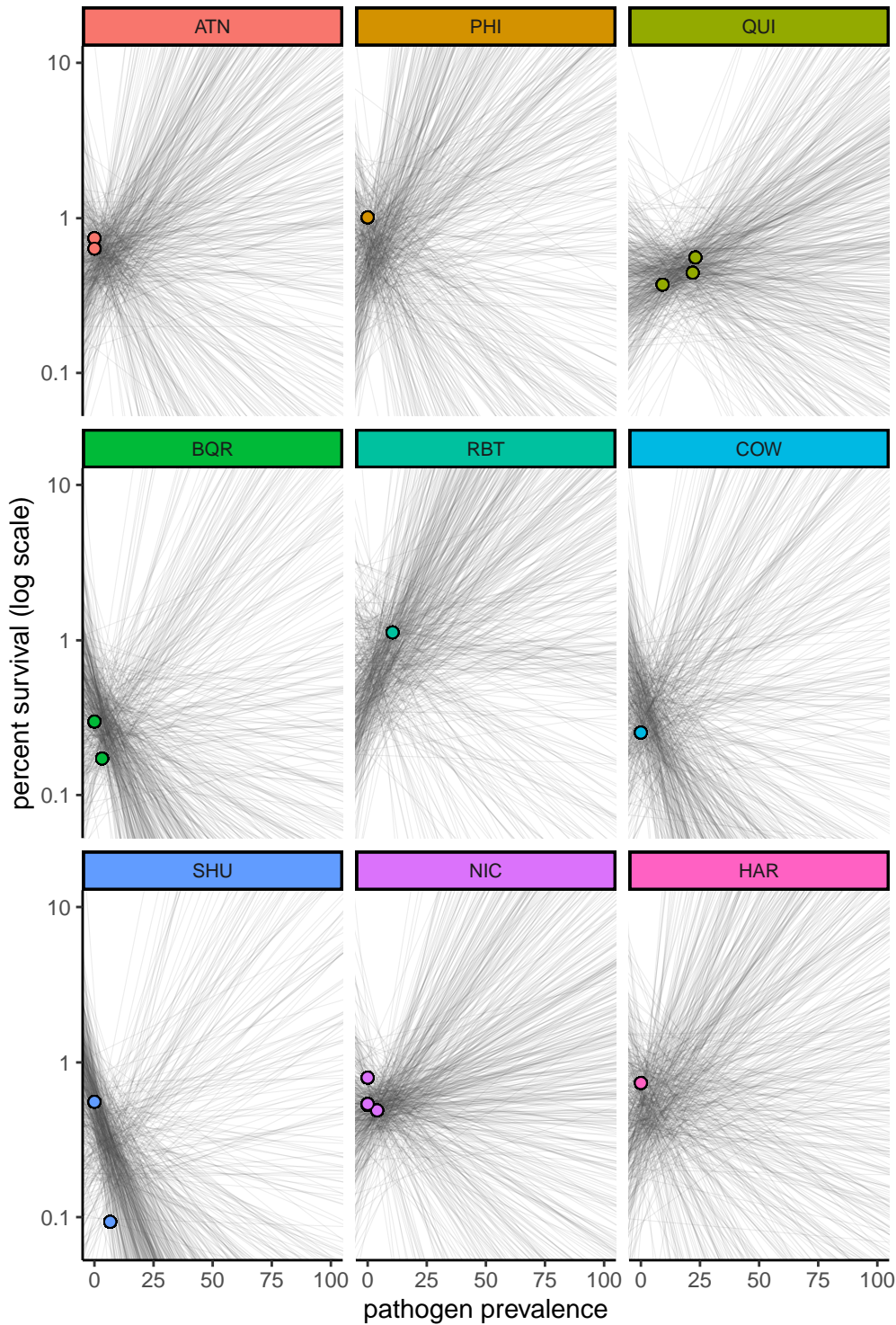
Ceratonova shasta SpSu



Ceratonova shasta FaWi

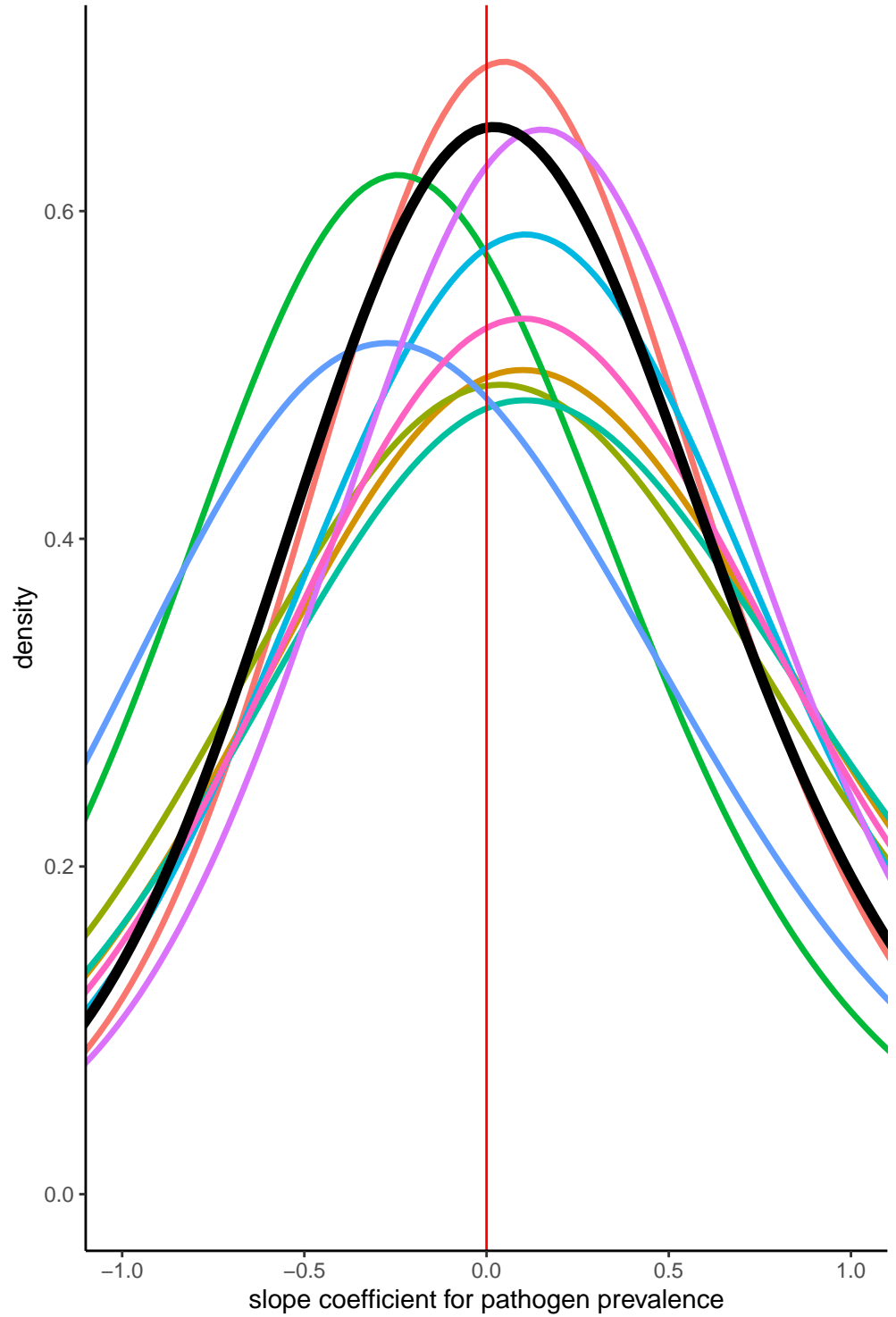
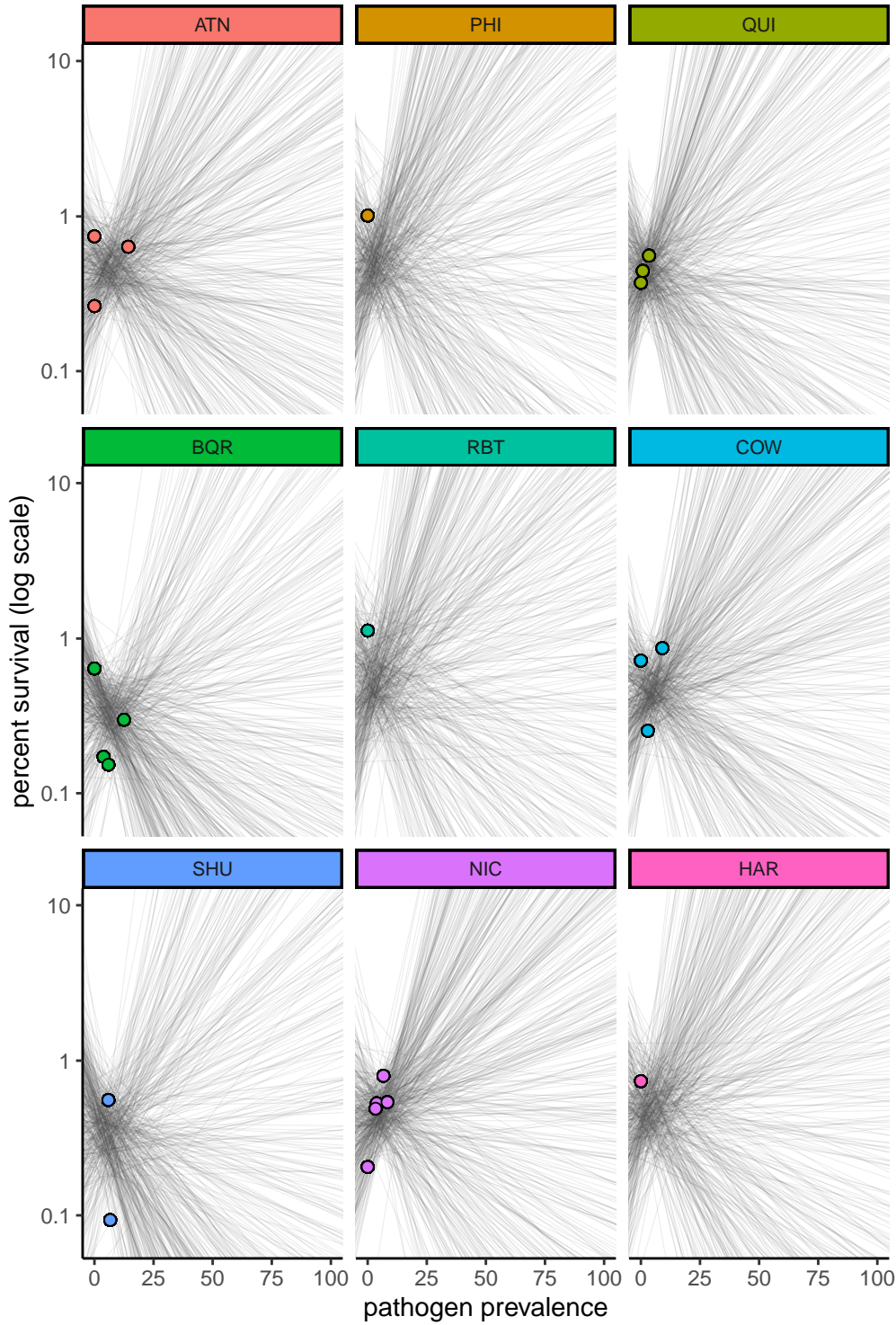


Pacific Salmon Nidovirus SpSu

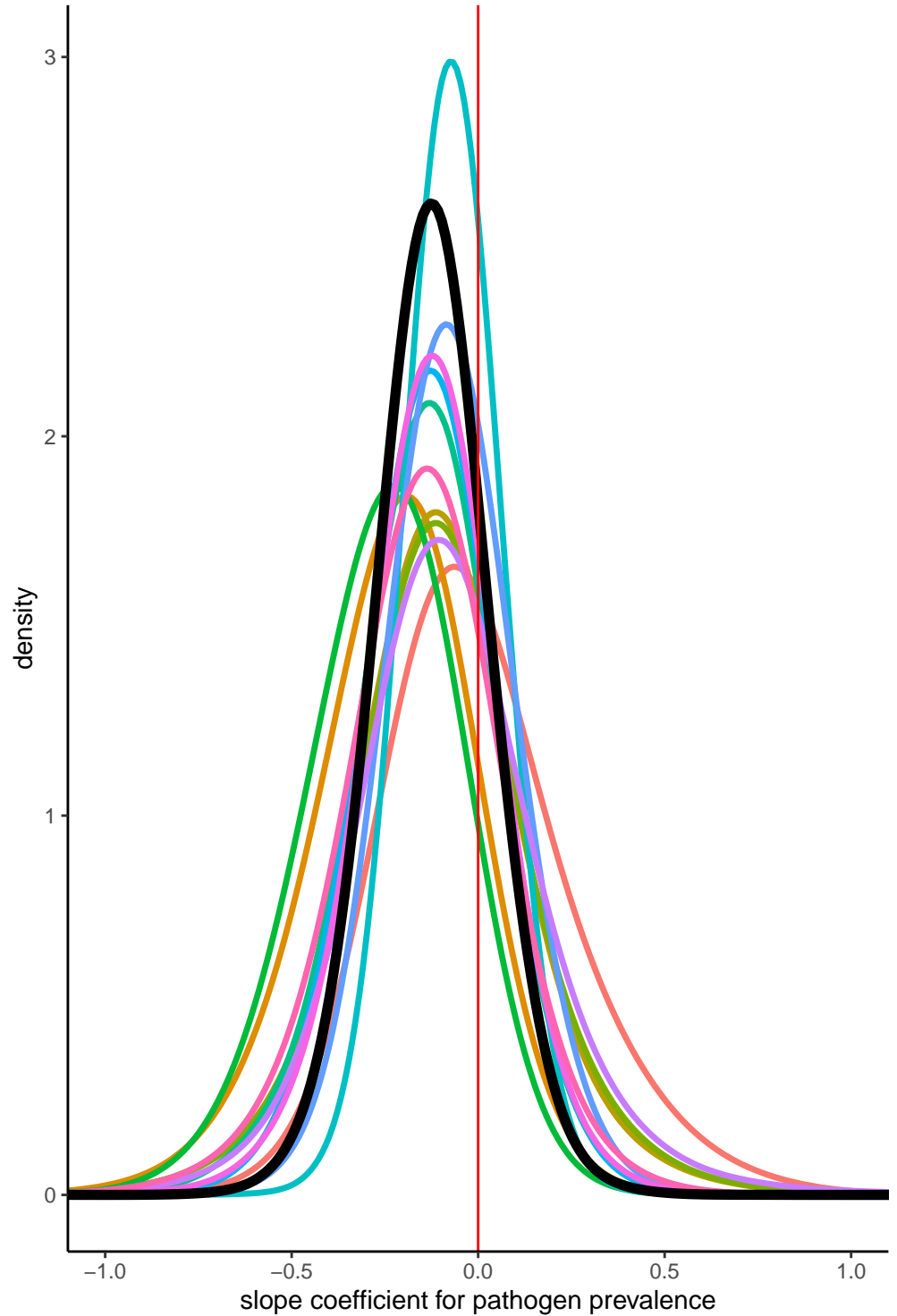
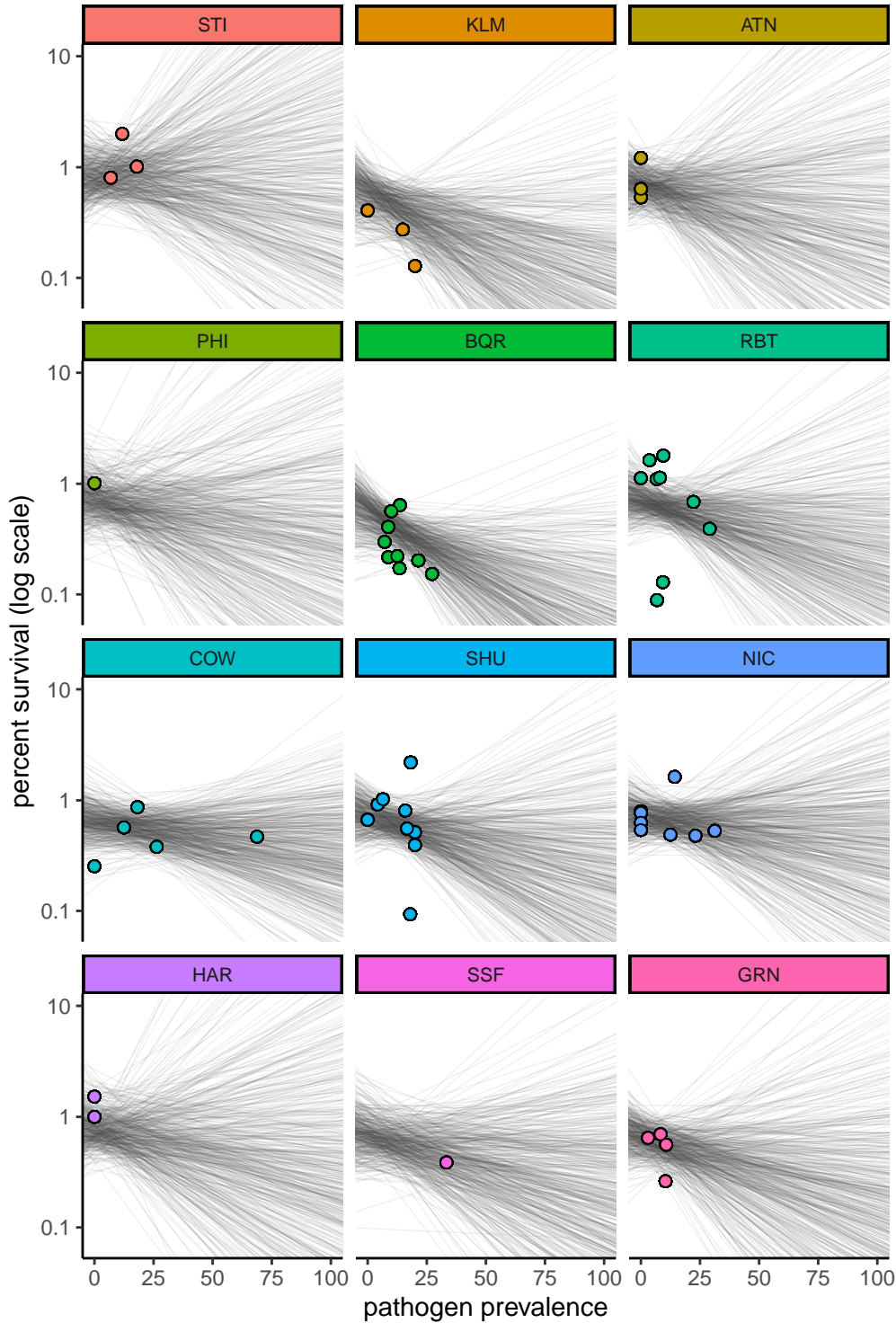




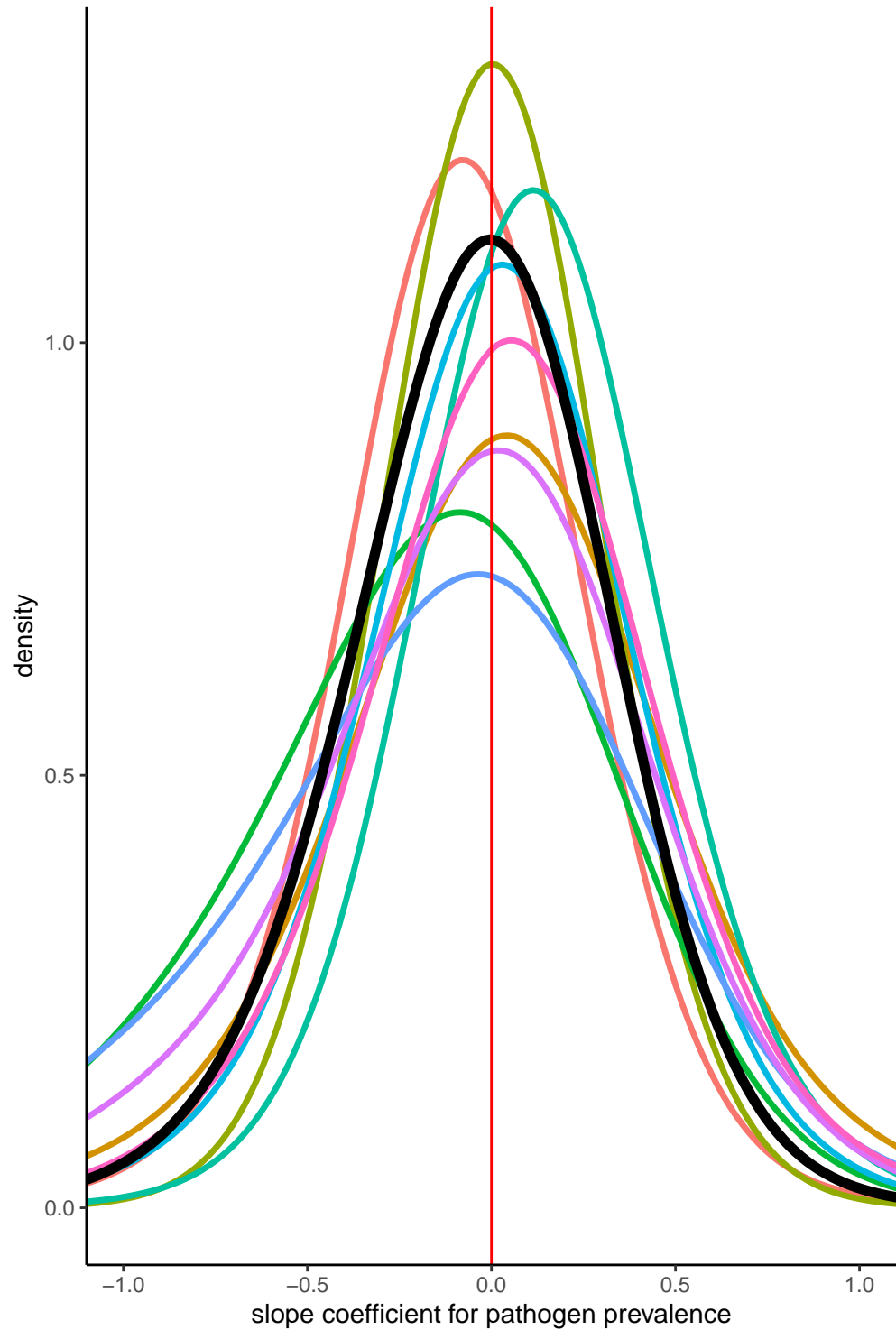
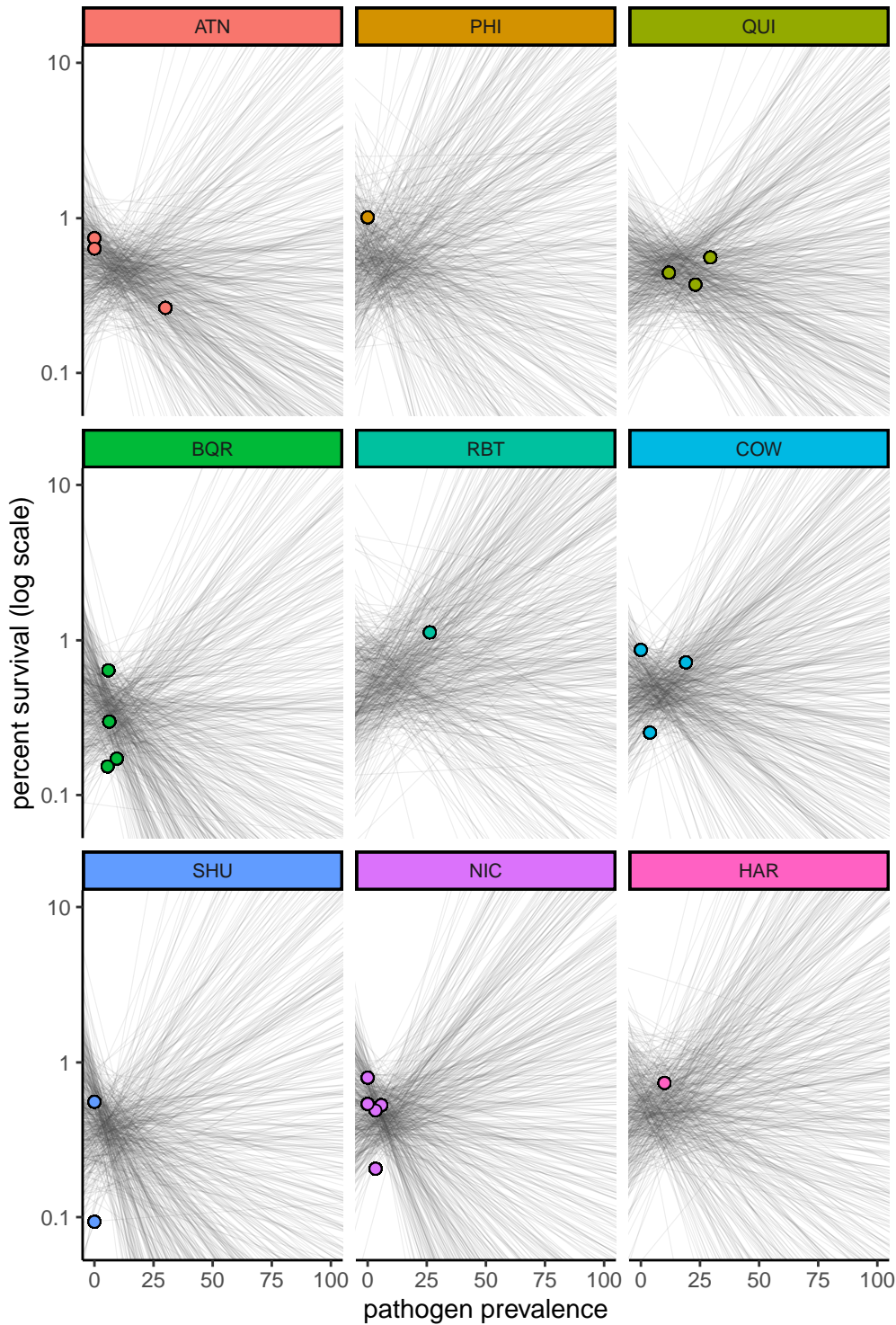
Facilispora margolisi SpSu



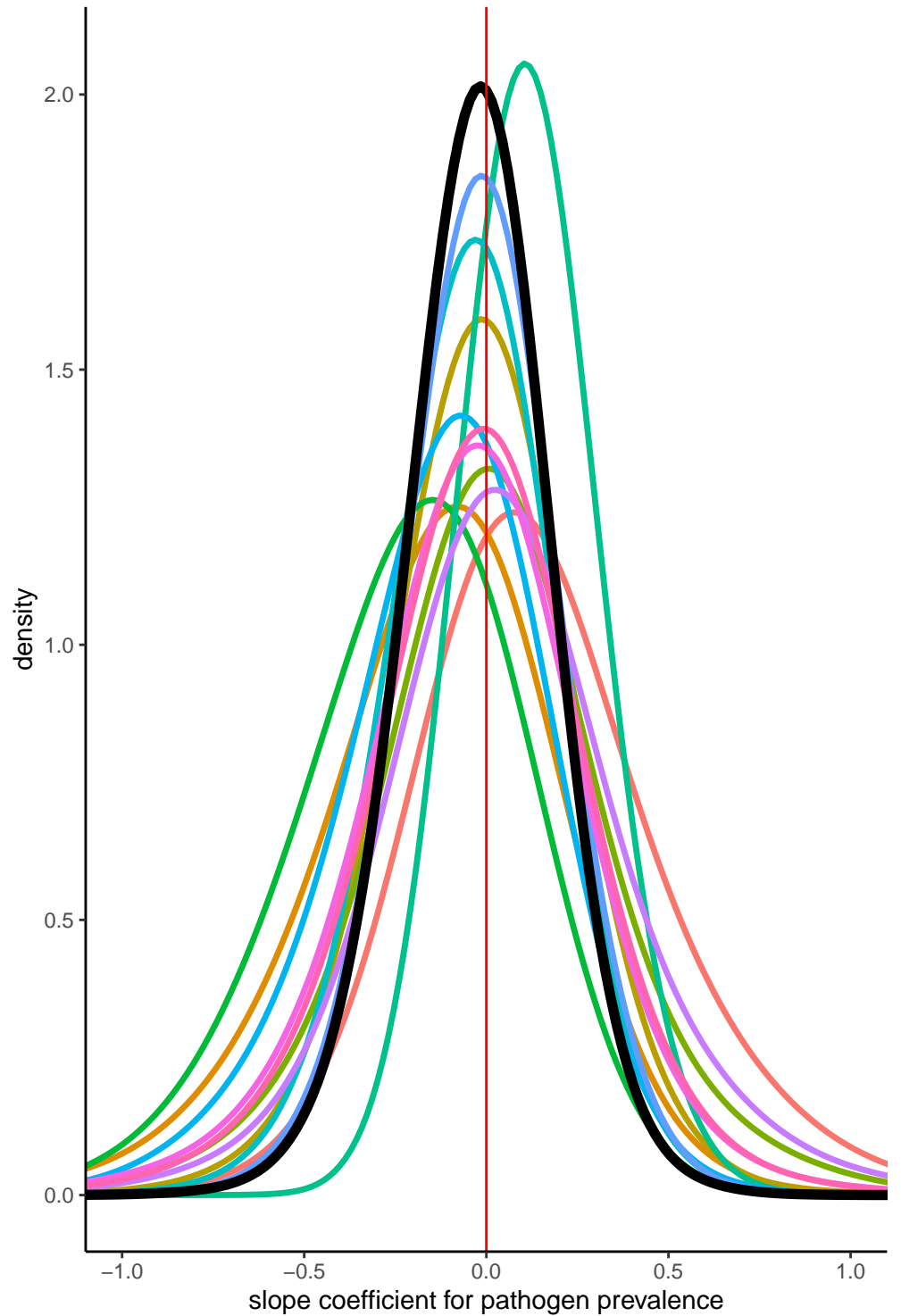
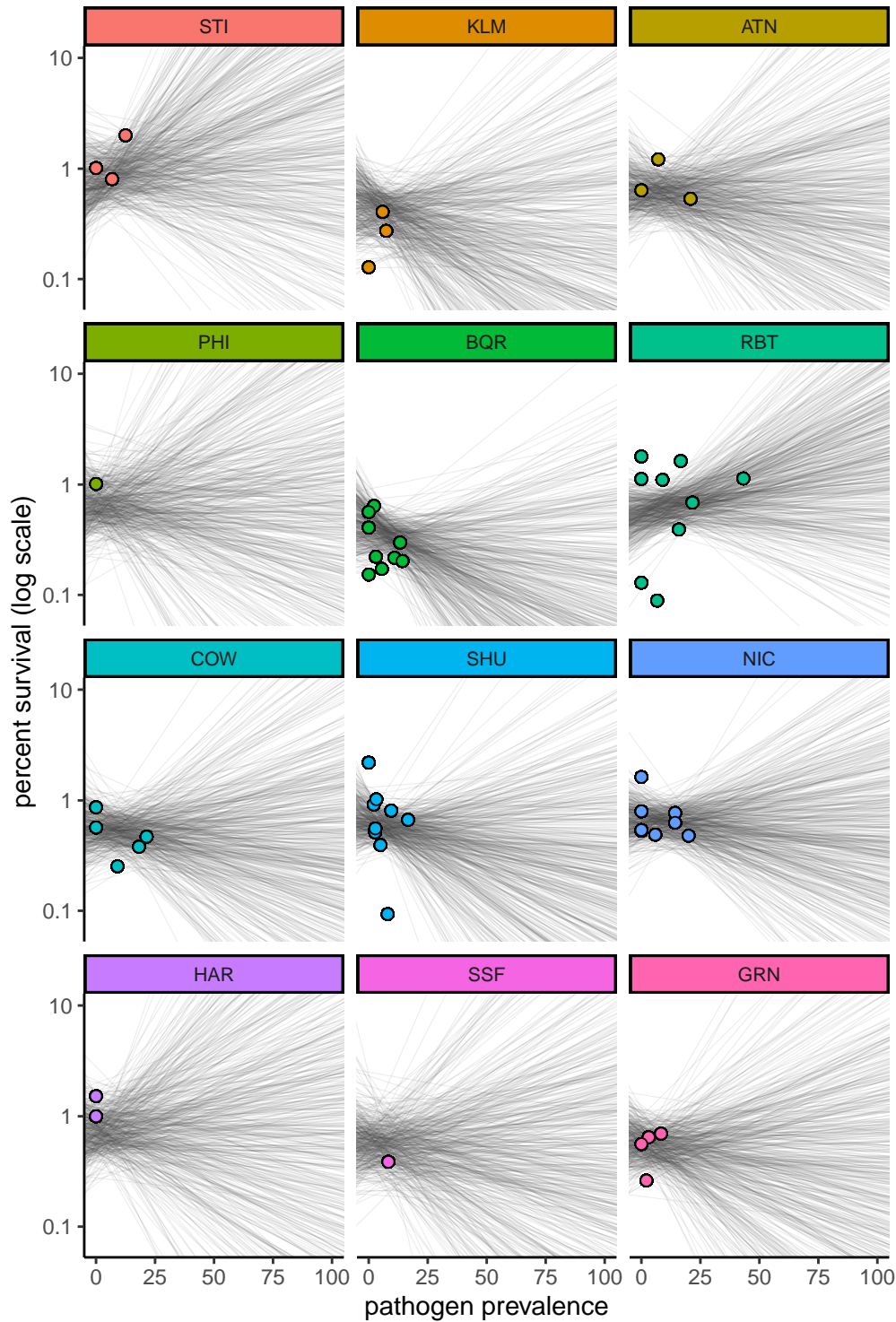
*Facilispora margolisi* FaWi



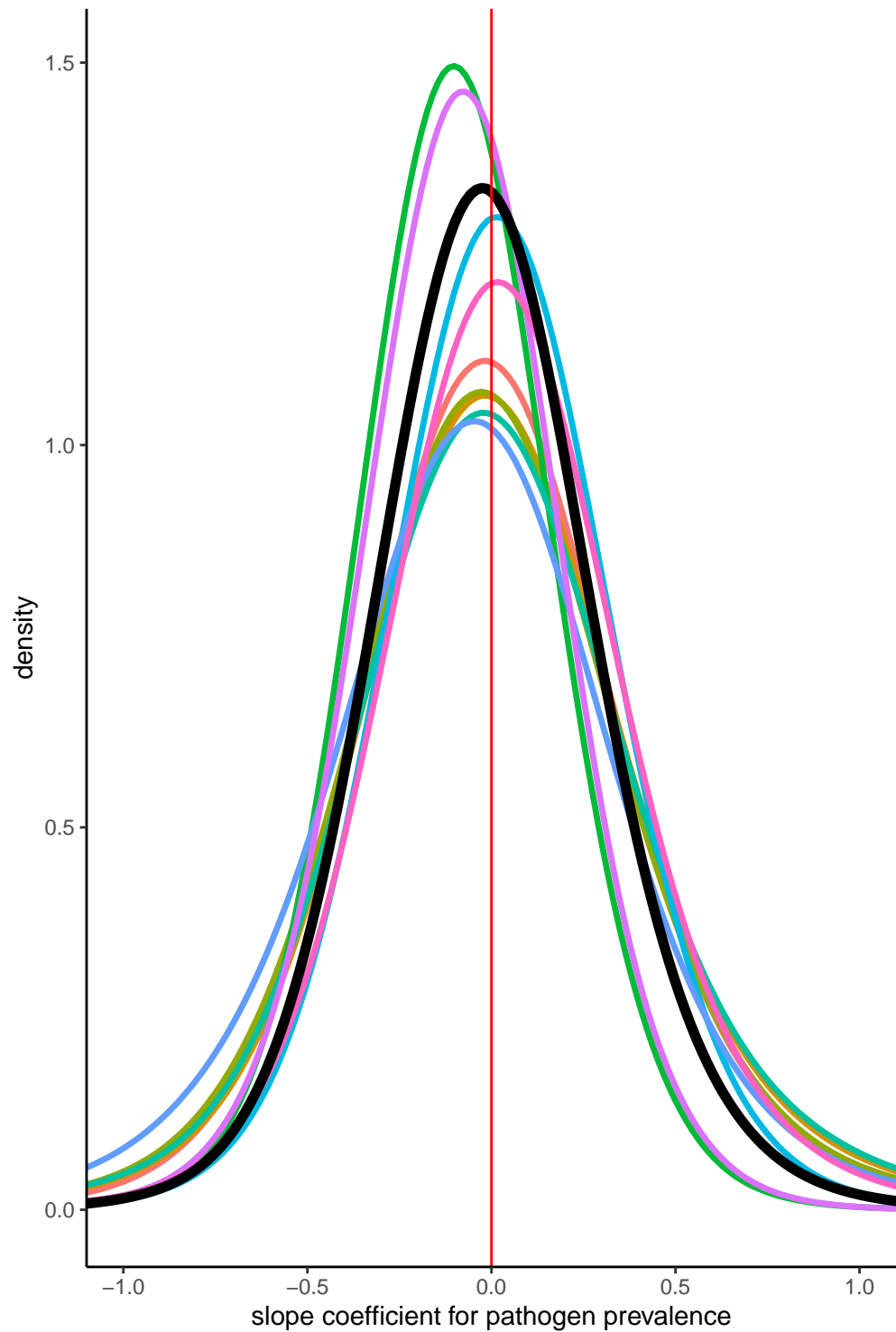
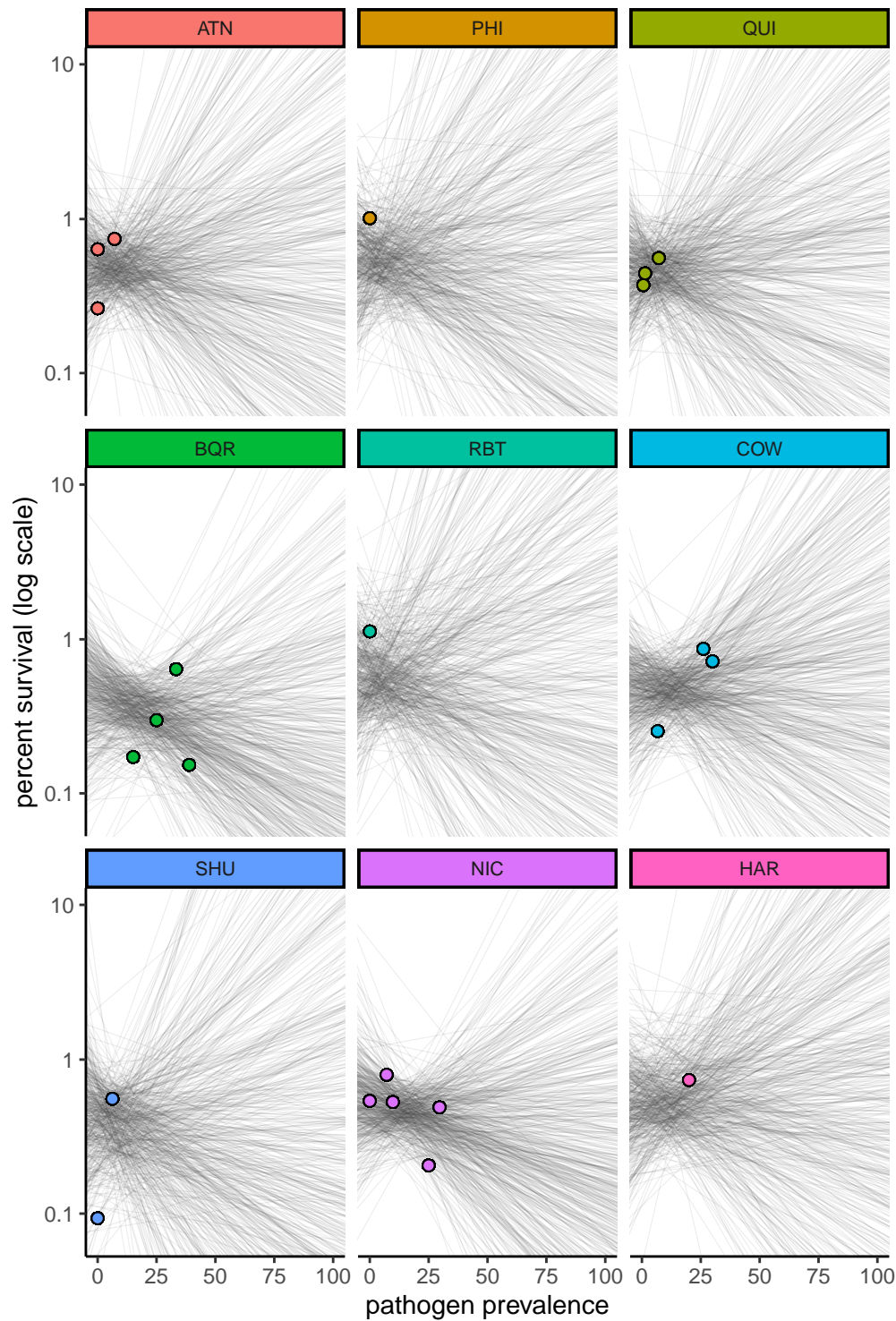
Flavobacterium psychrophilum SpSu



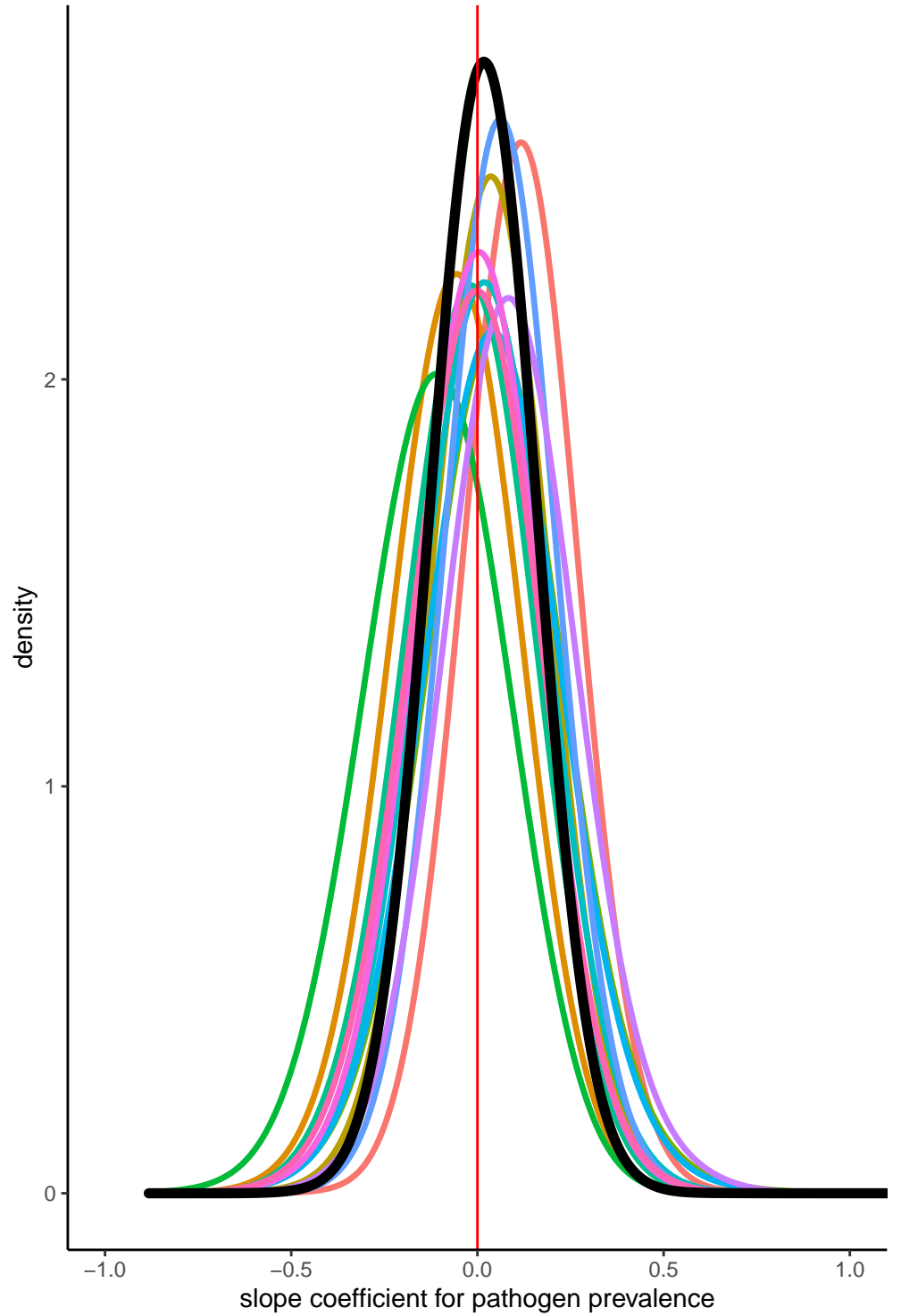
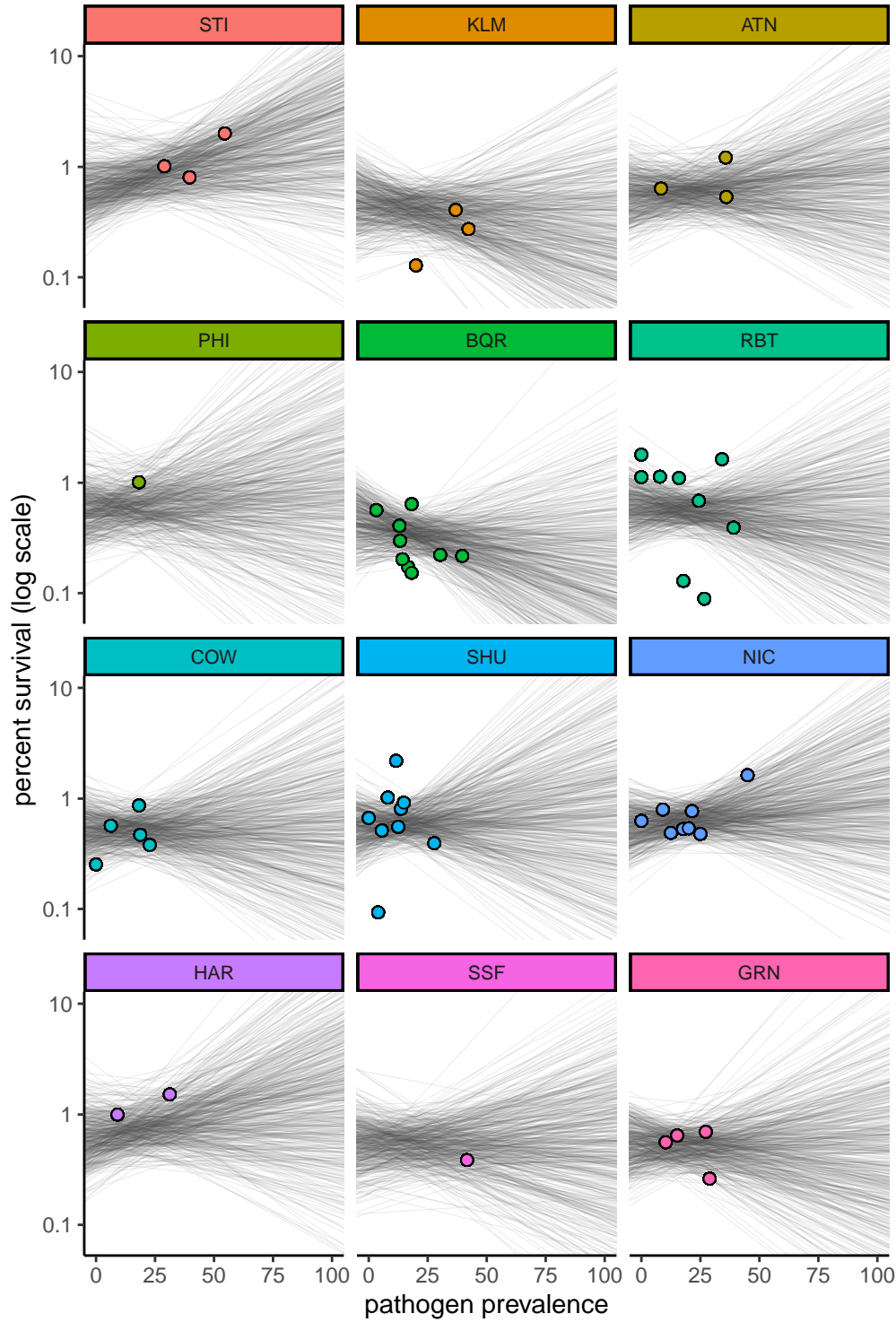
Flavobacterium psychrophilum FaWi



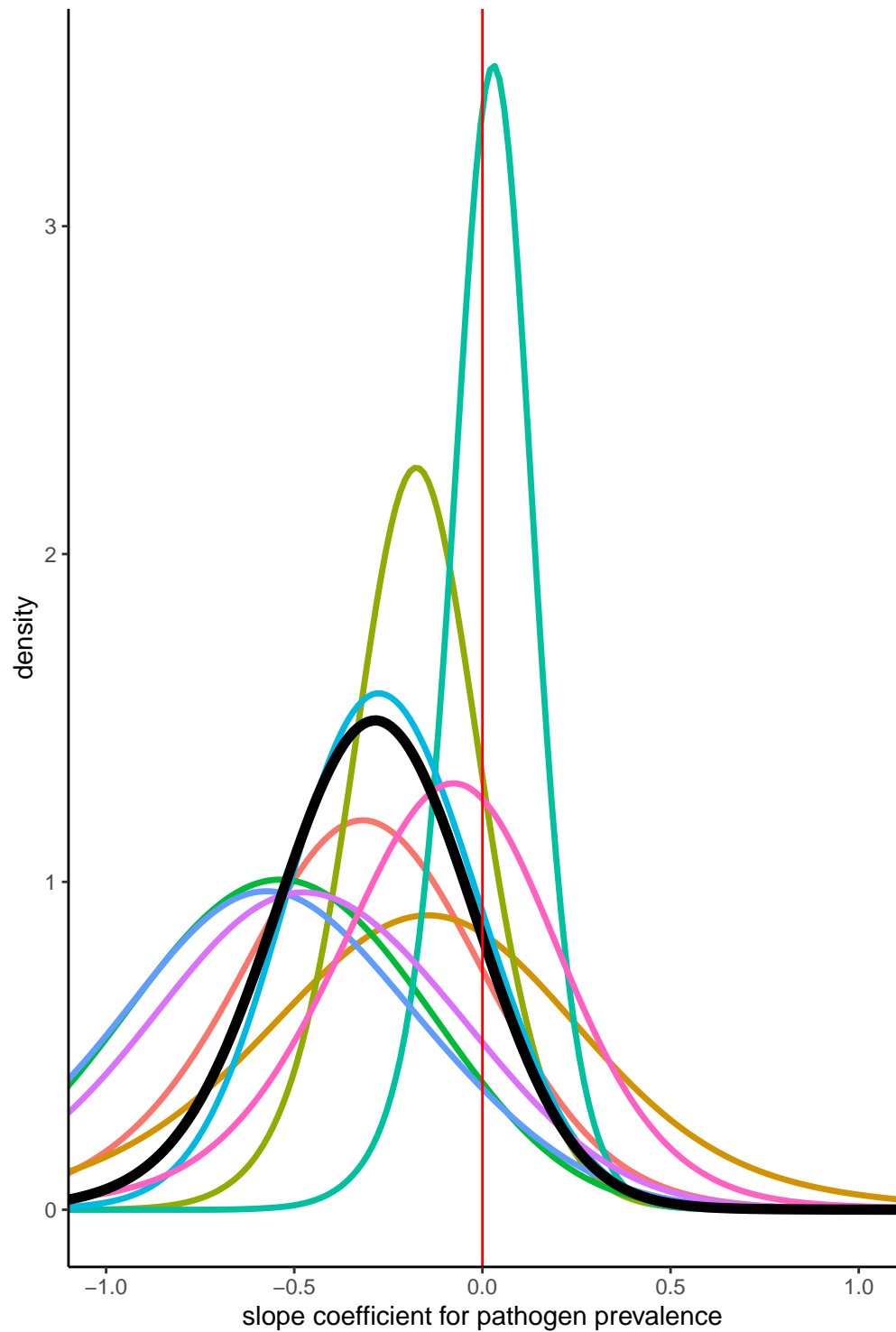
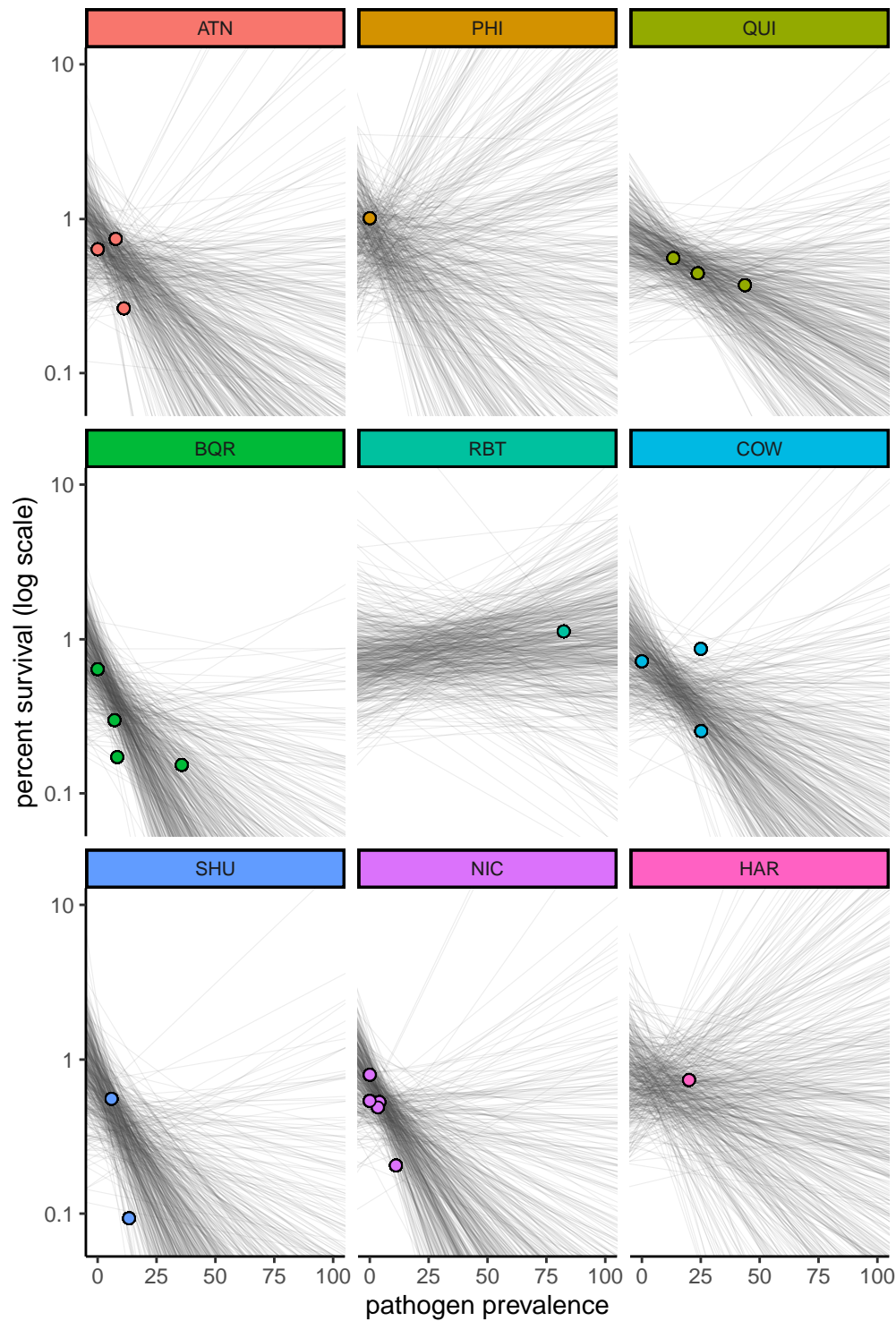
Ichthyophonus hoferi SpSu



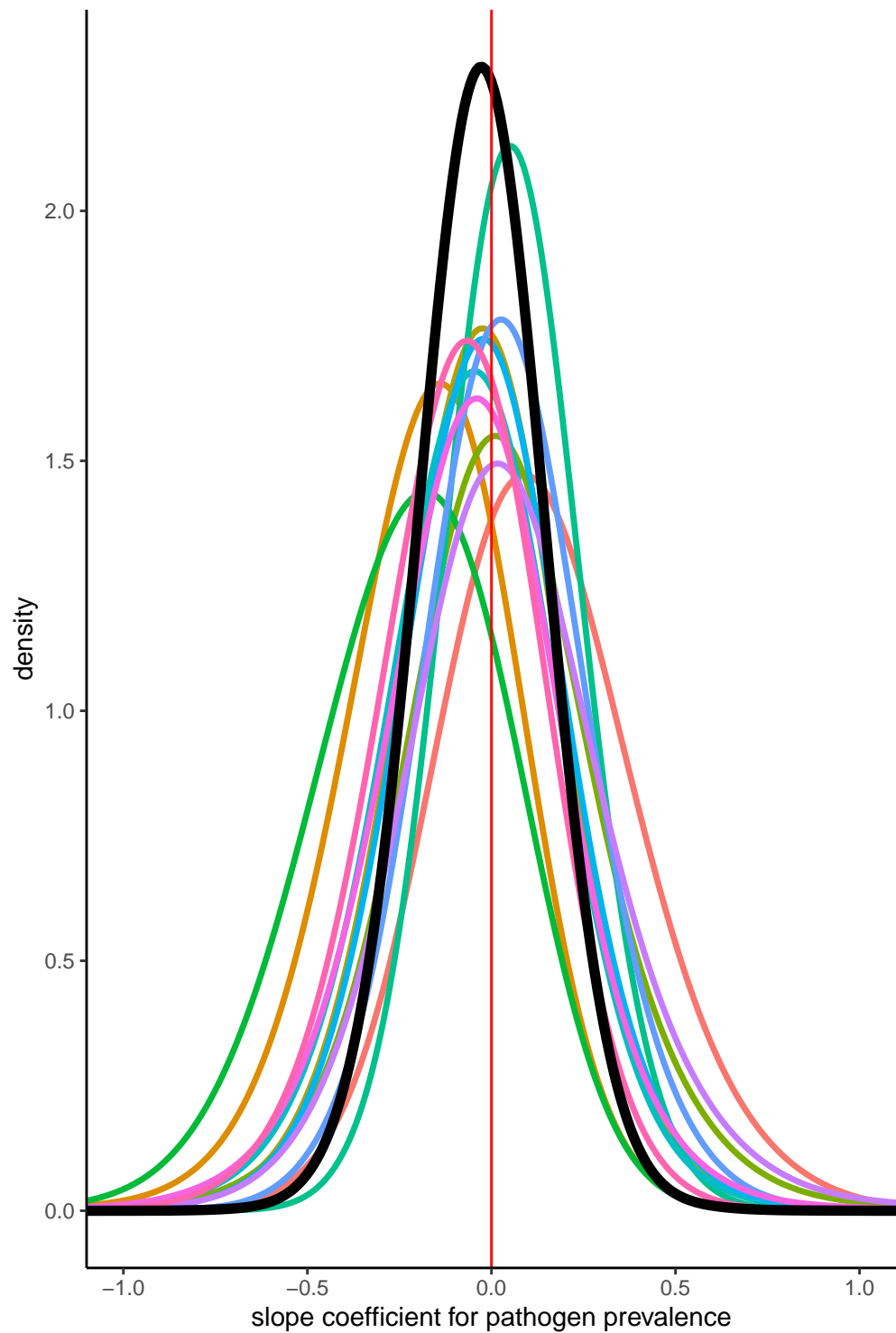
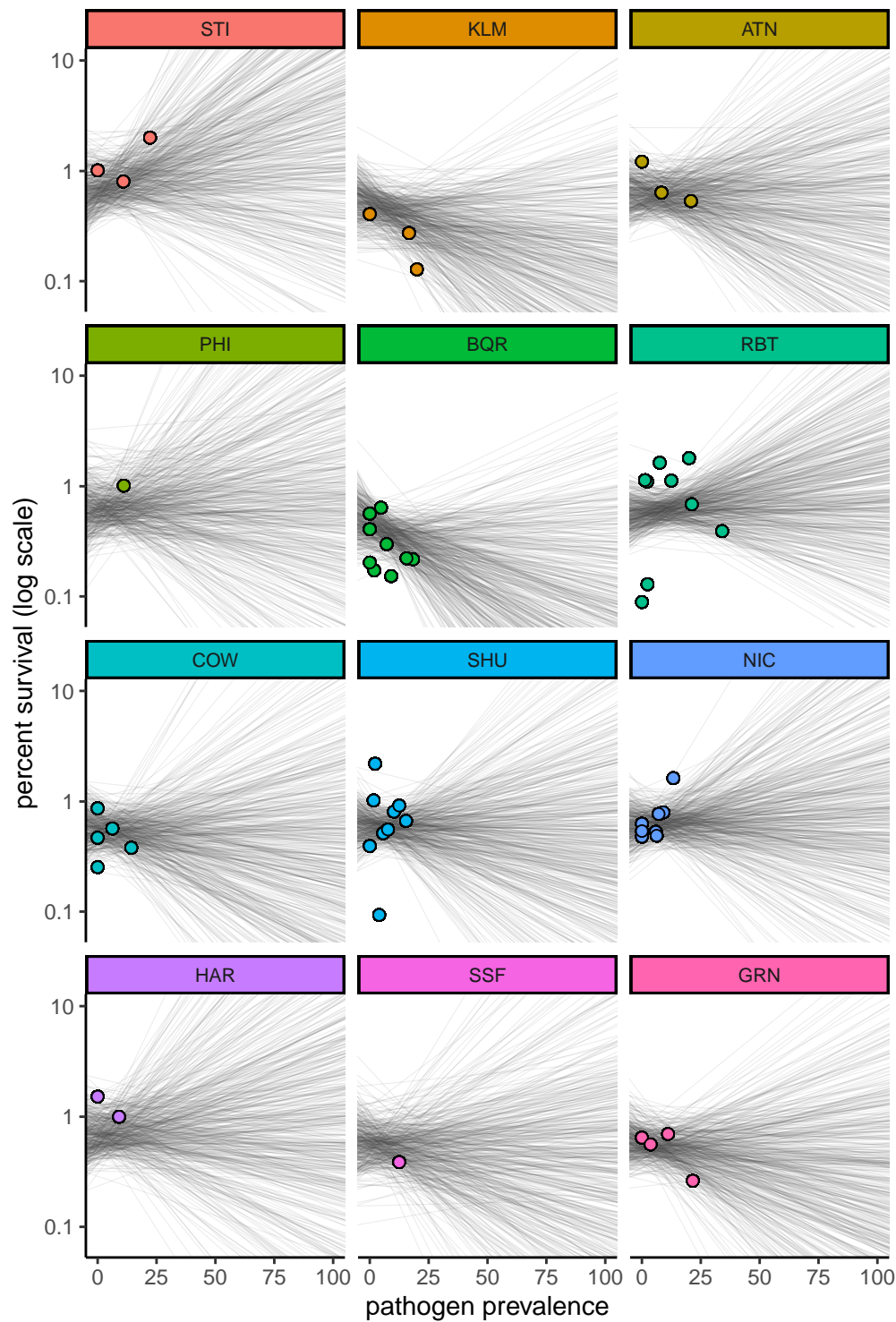
Ichthyophonus hoferi FaWi



Ichthyophthirius multifiliis SpSu

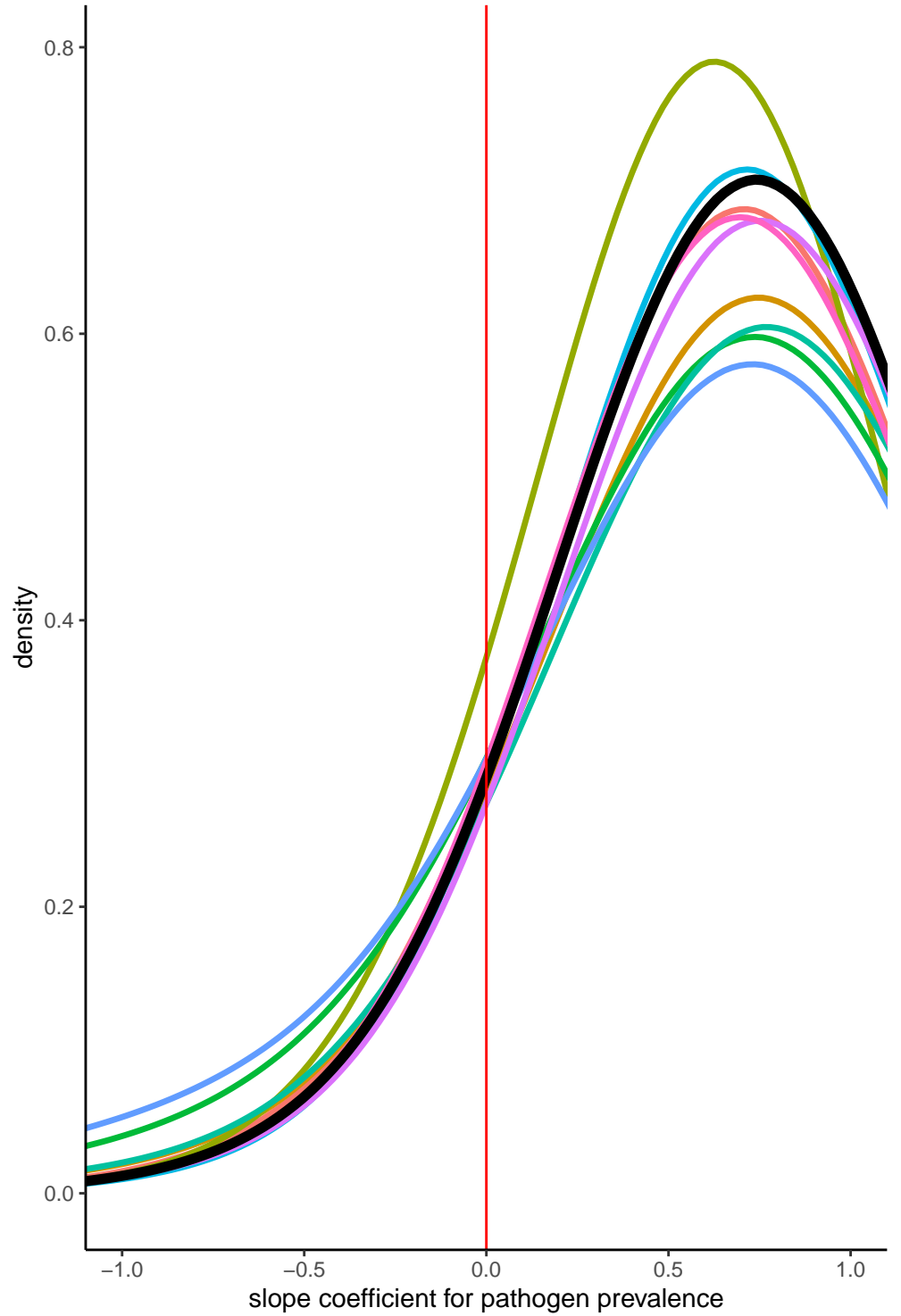
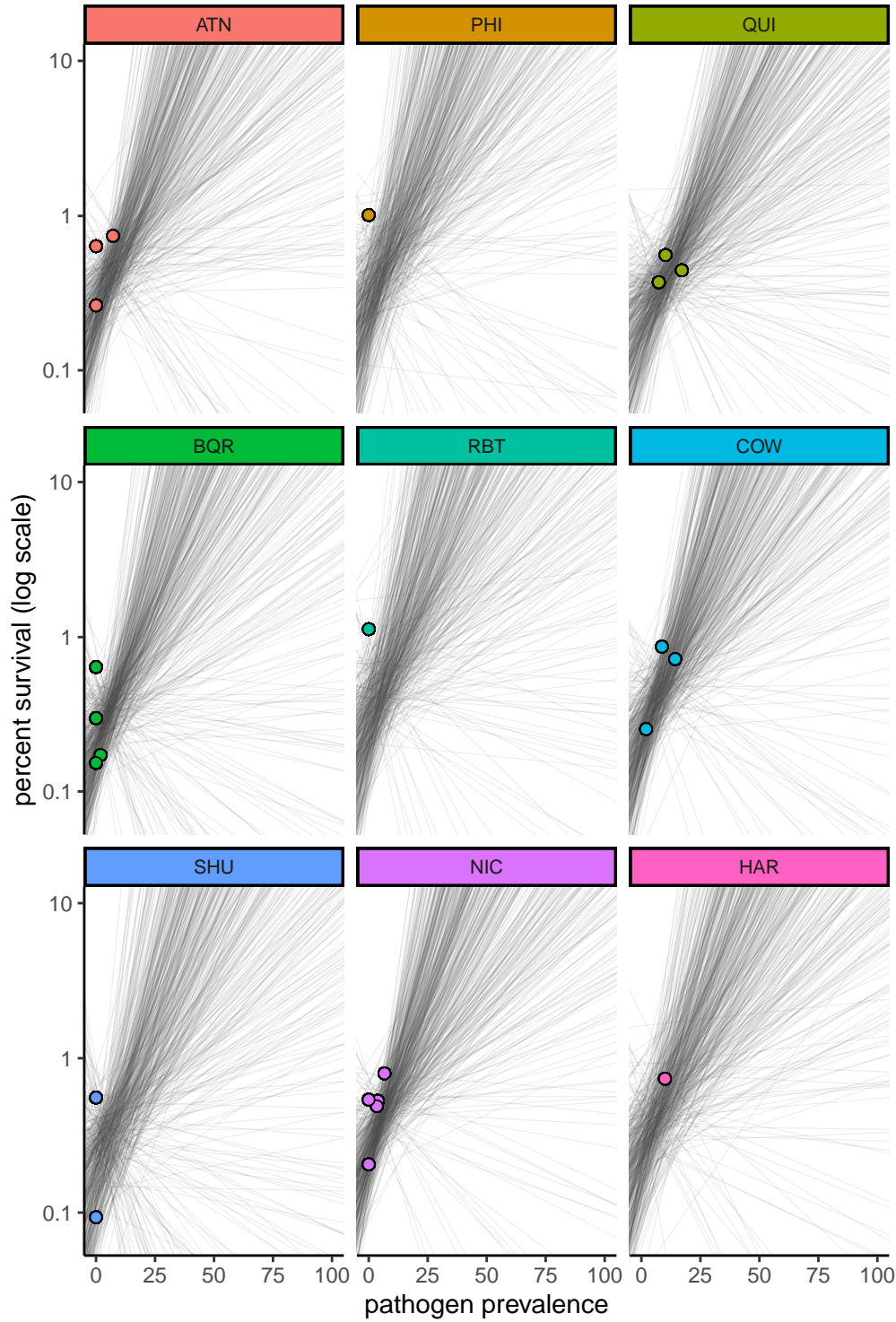


Ichthyophthirius multifiliis FaWi

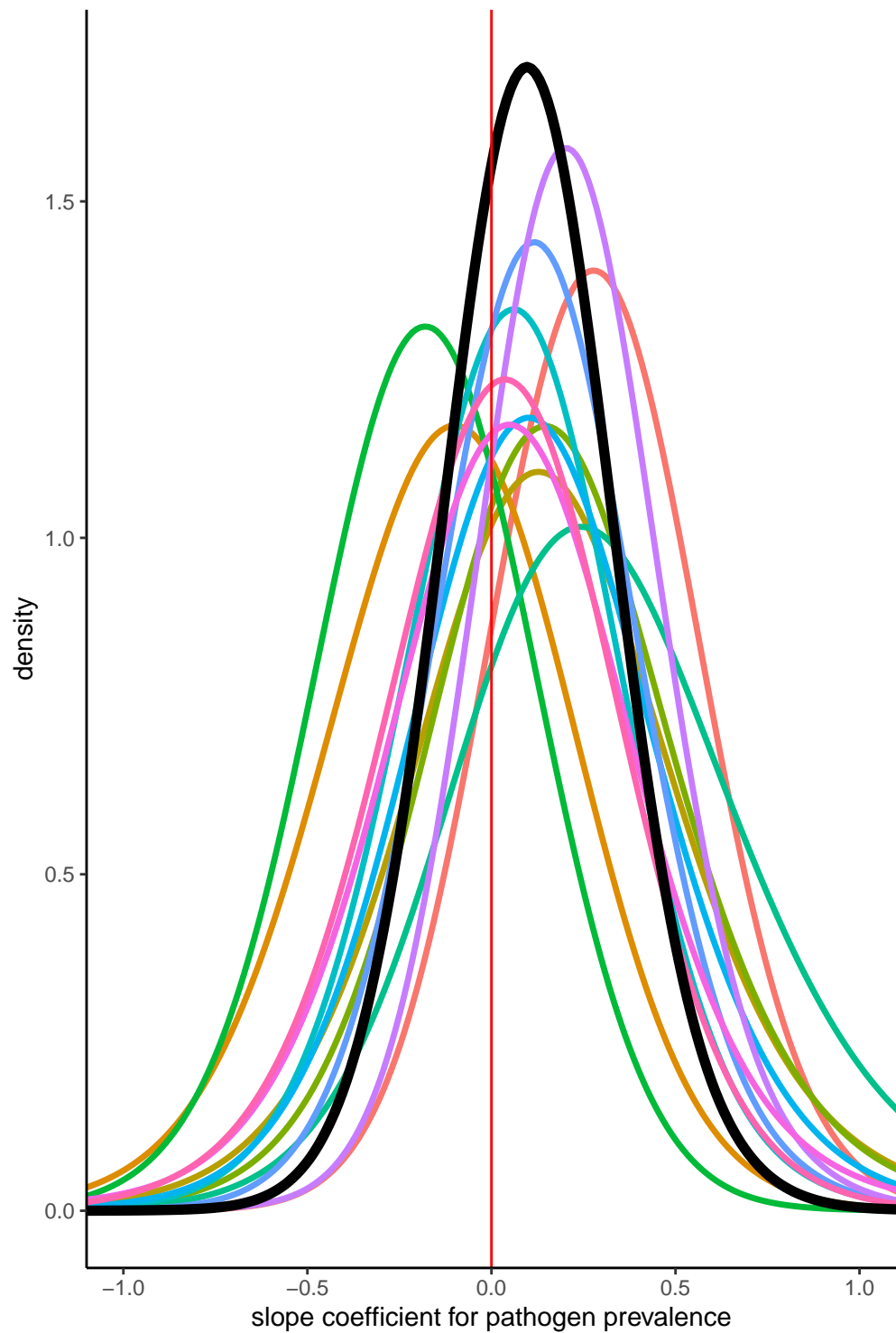
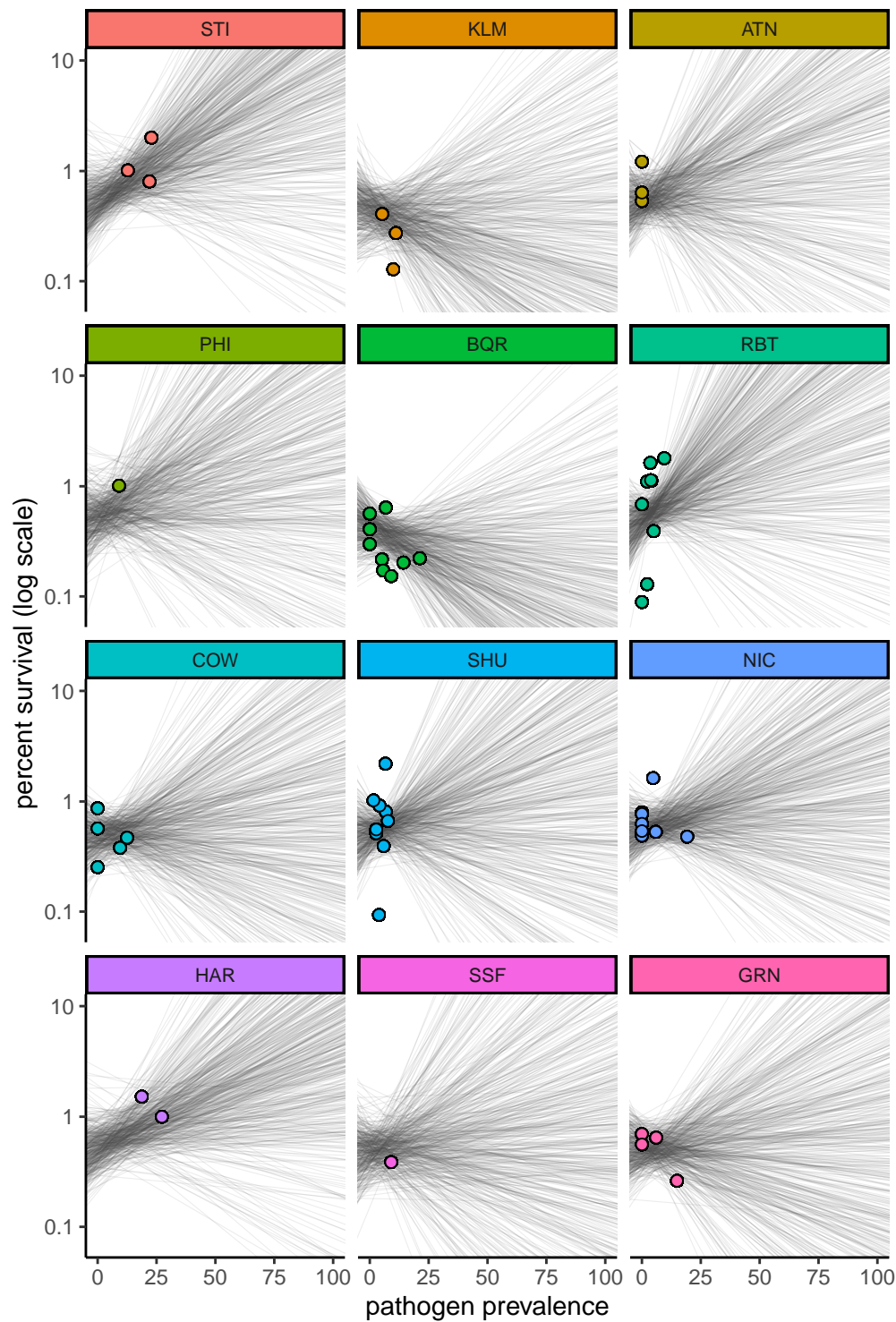




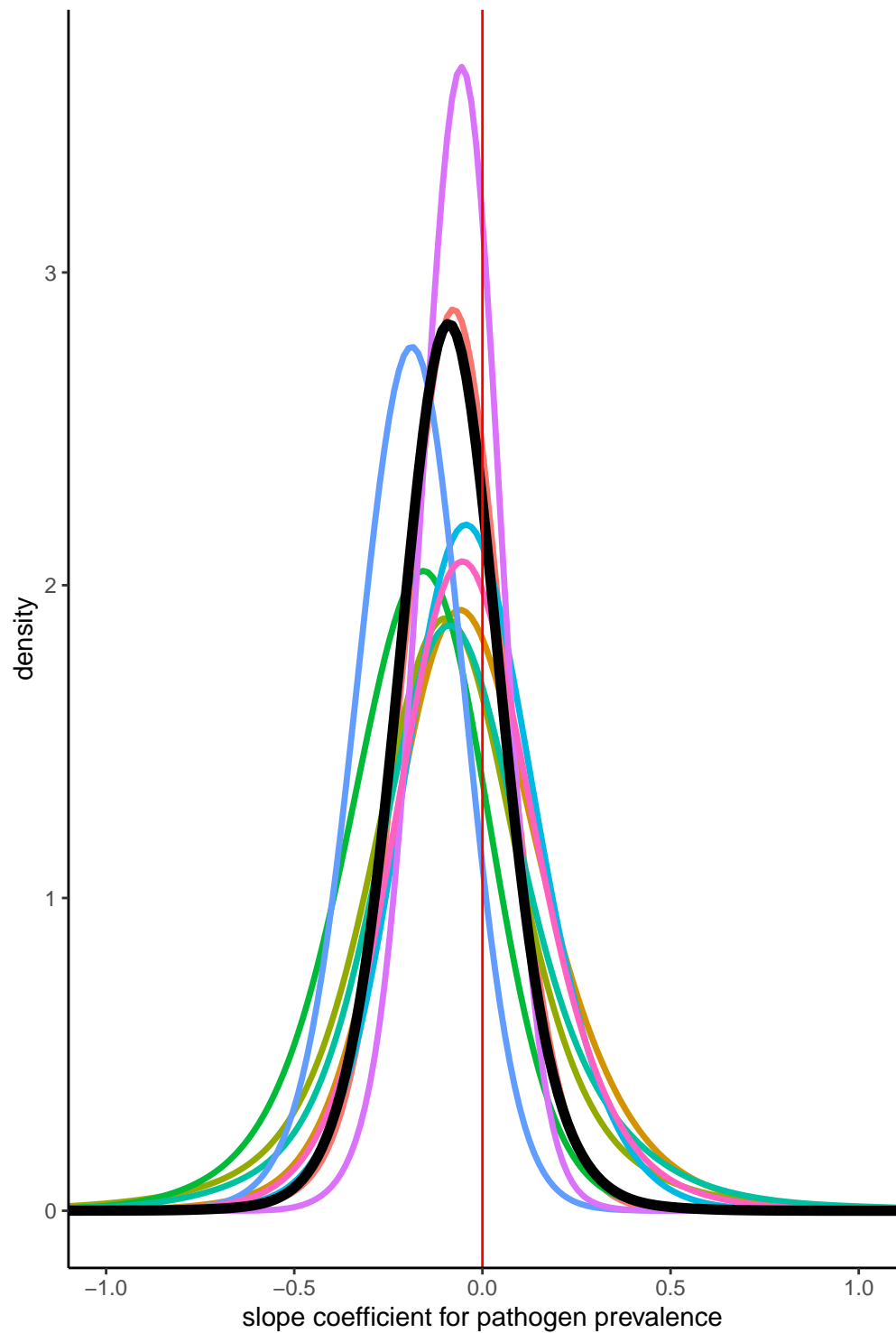
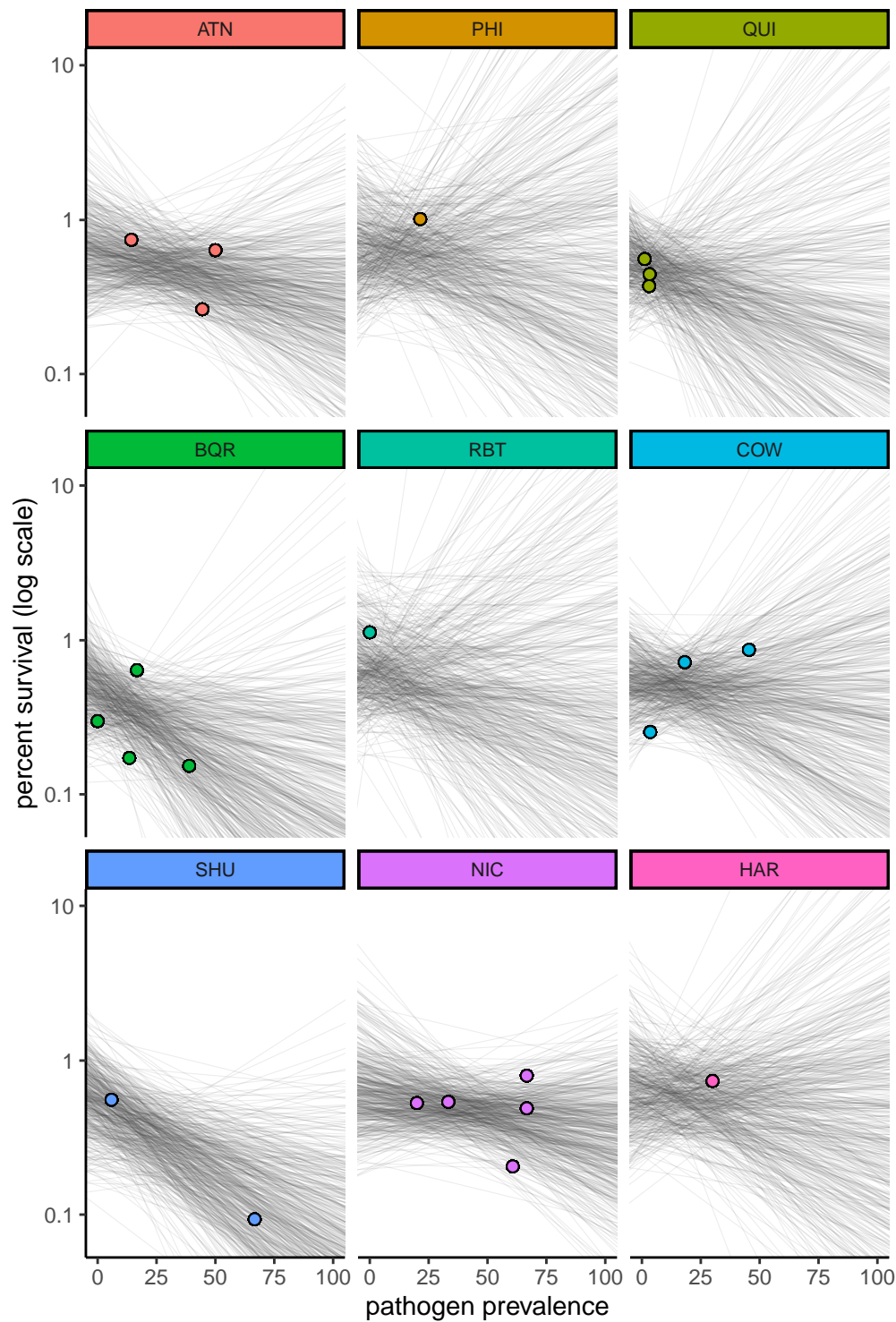
Kudoa thyrsites SpSu



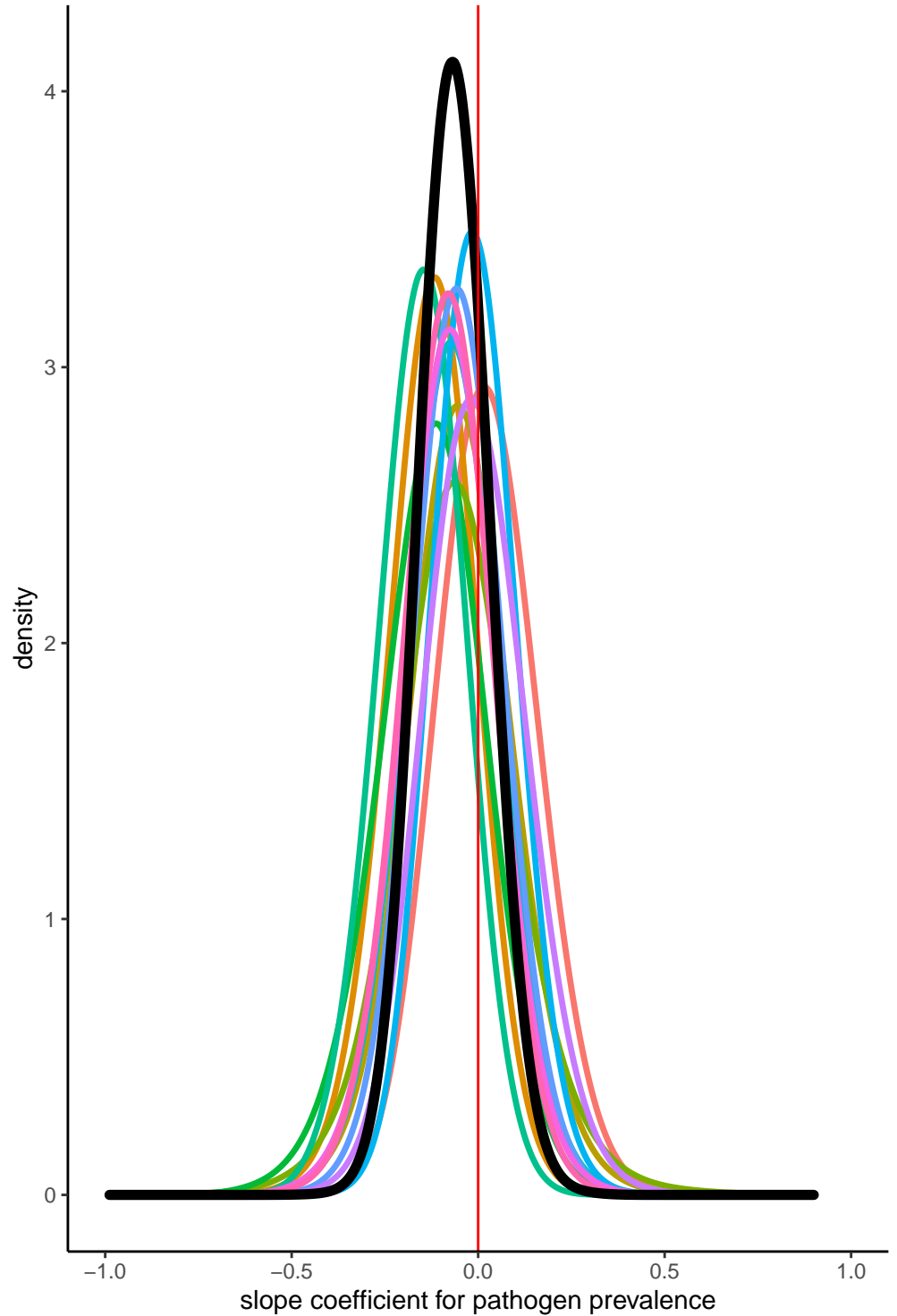
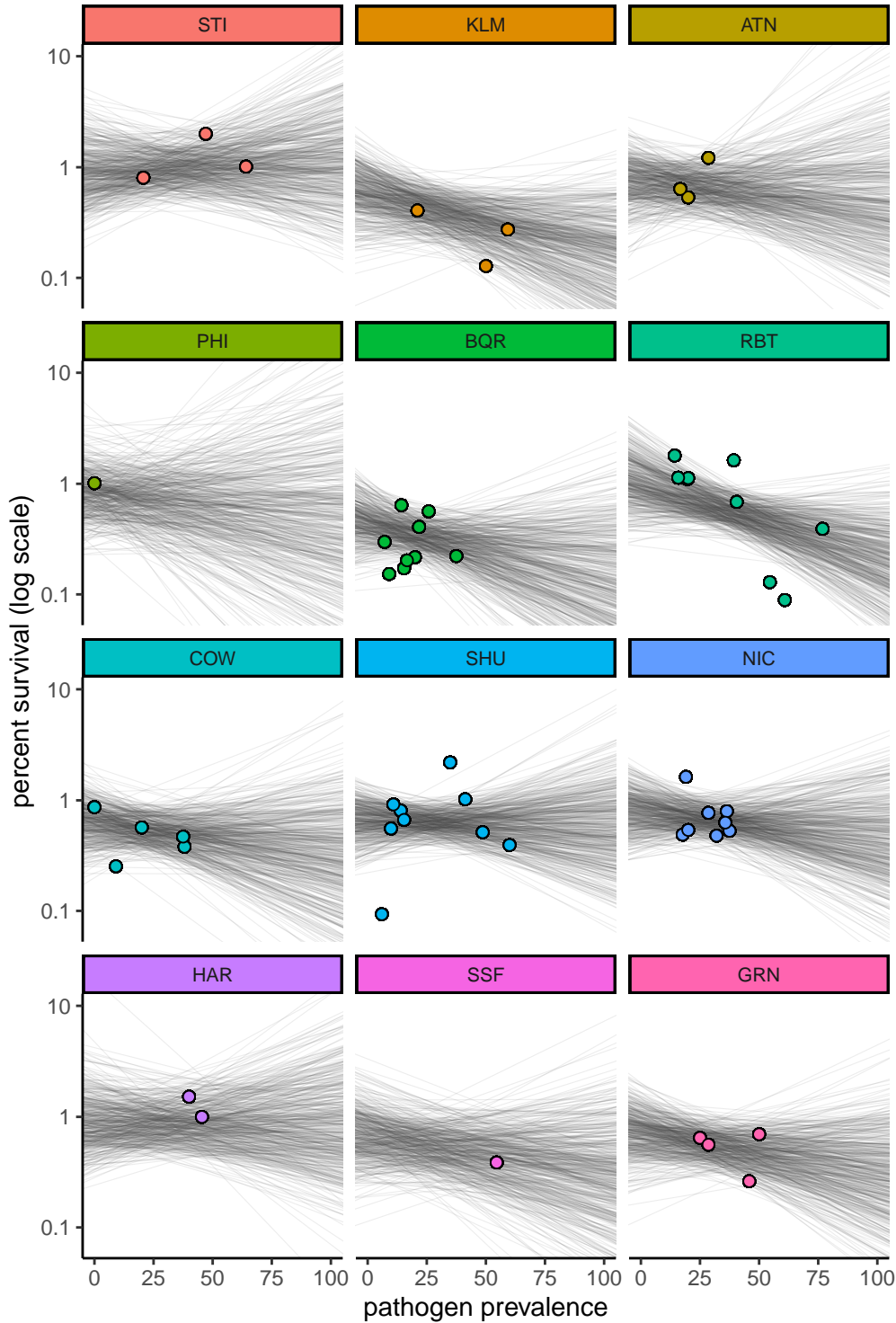
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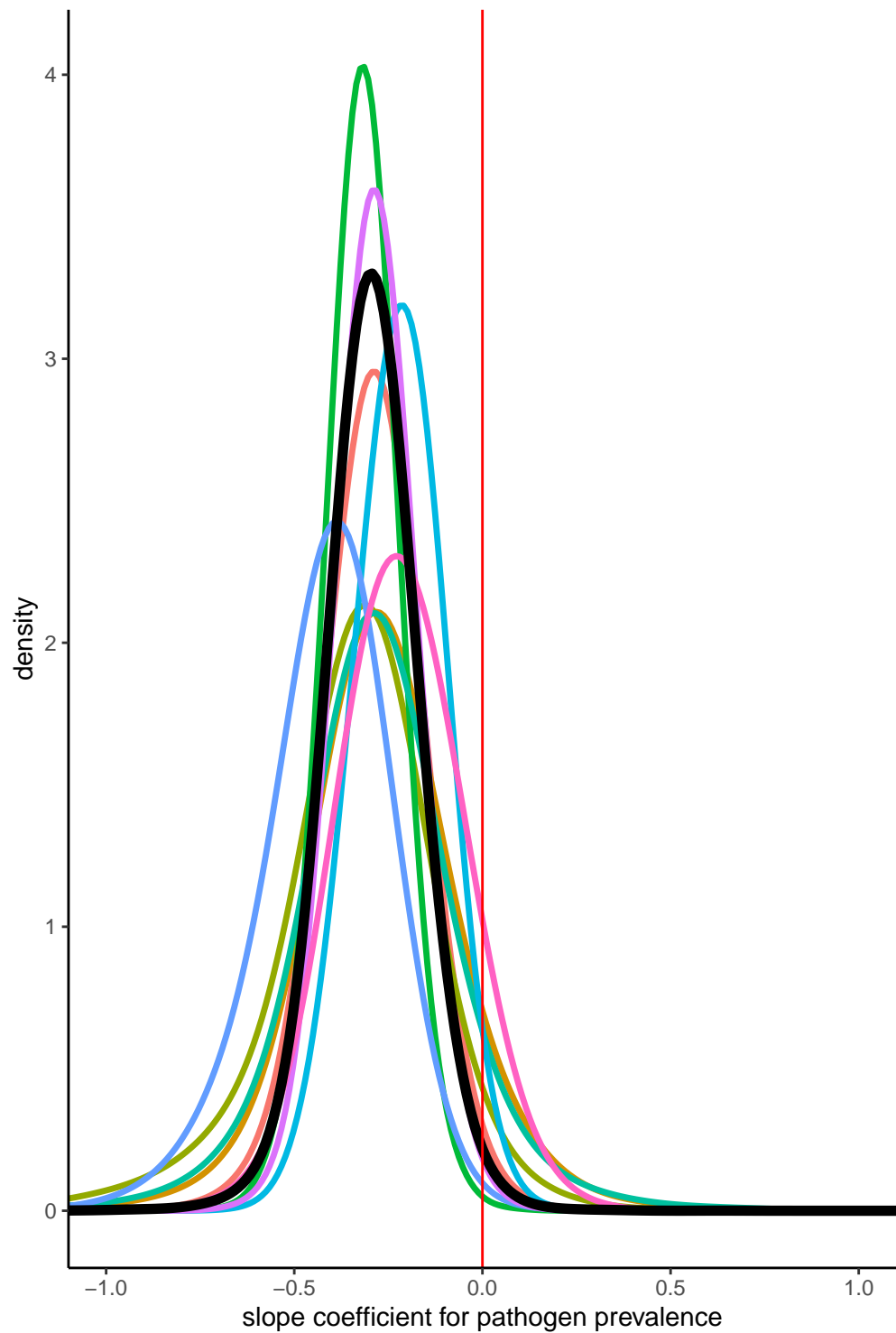
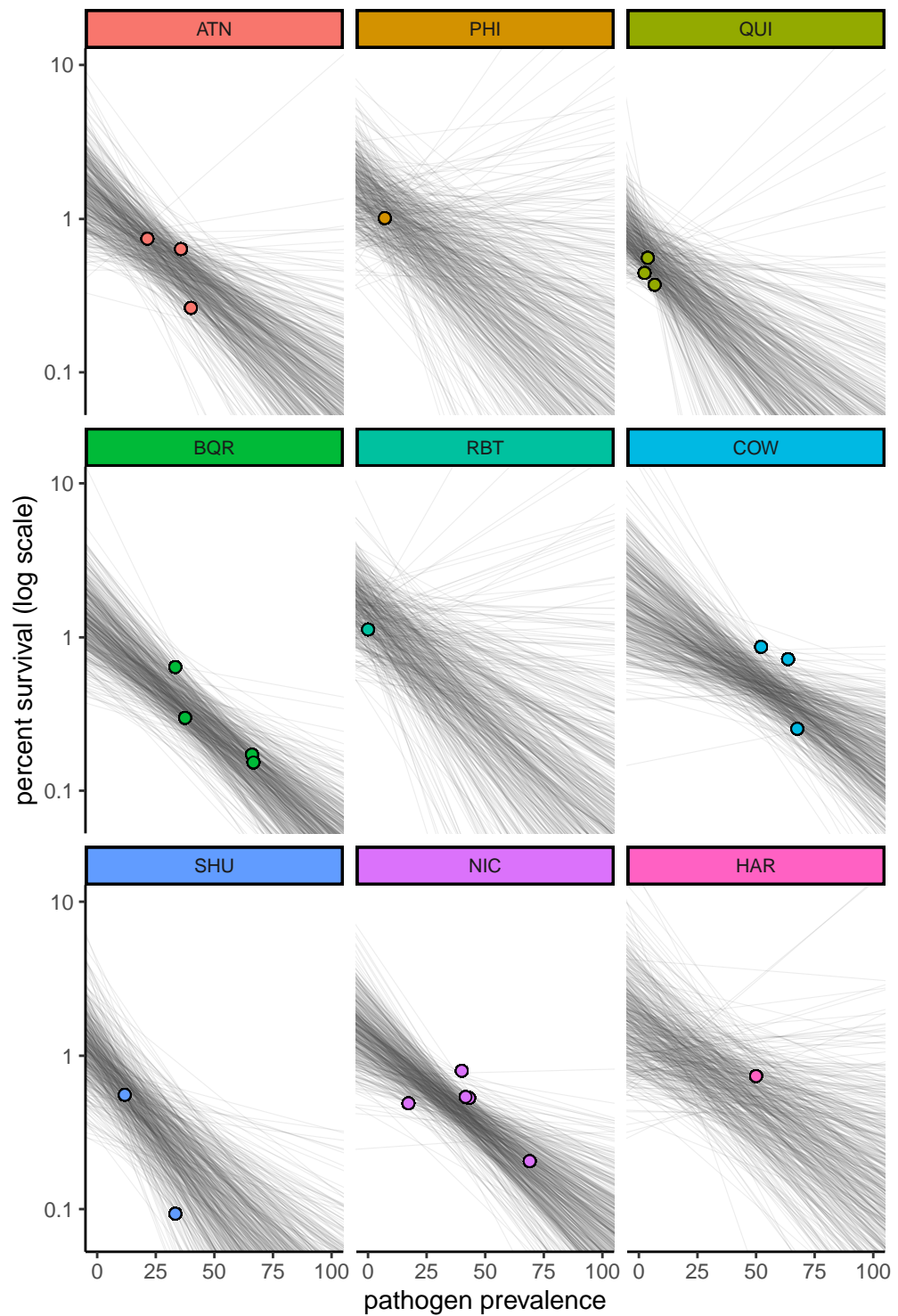
Loma salmonae SpSu



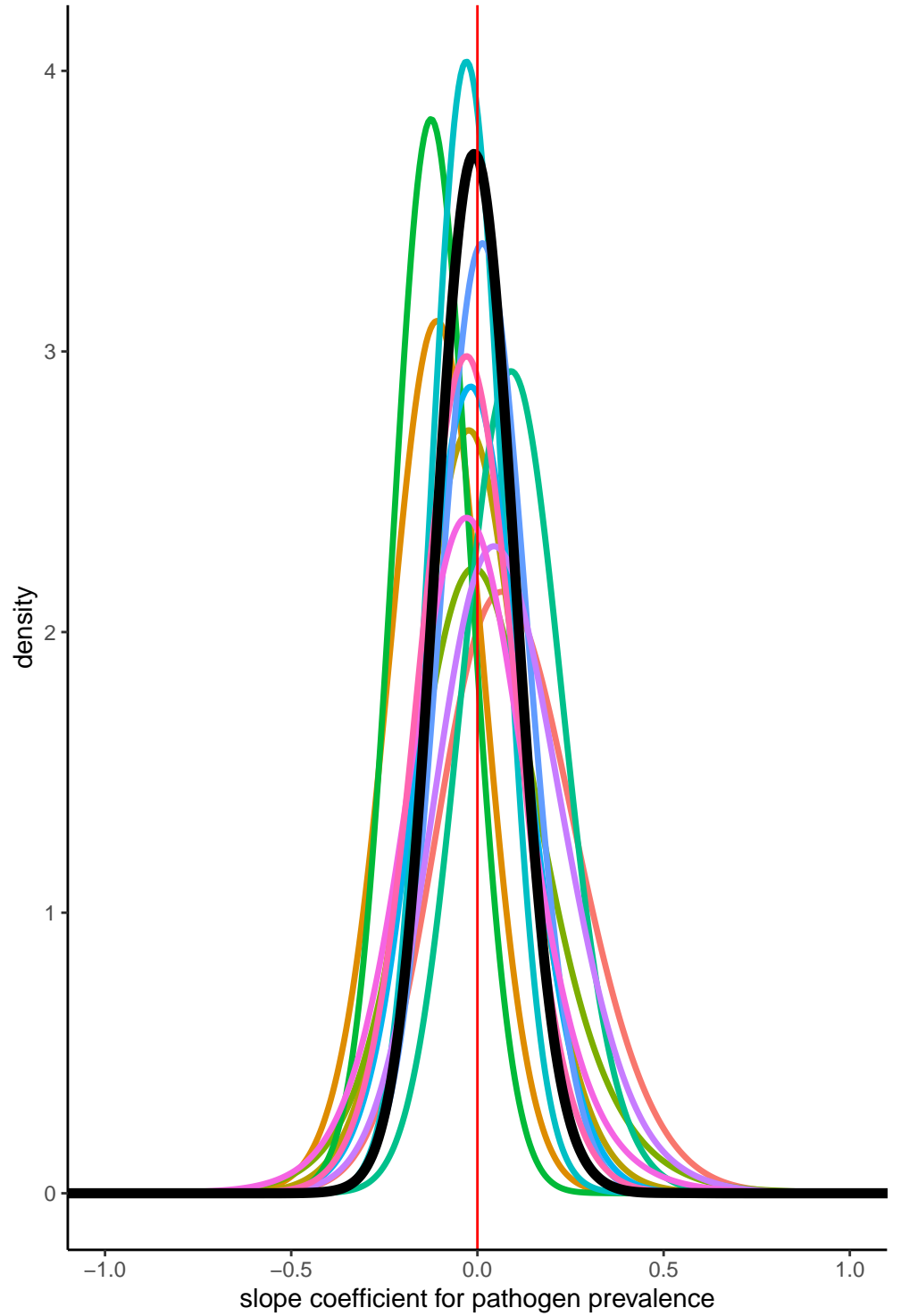
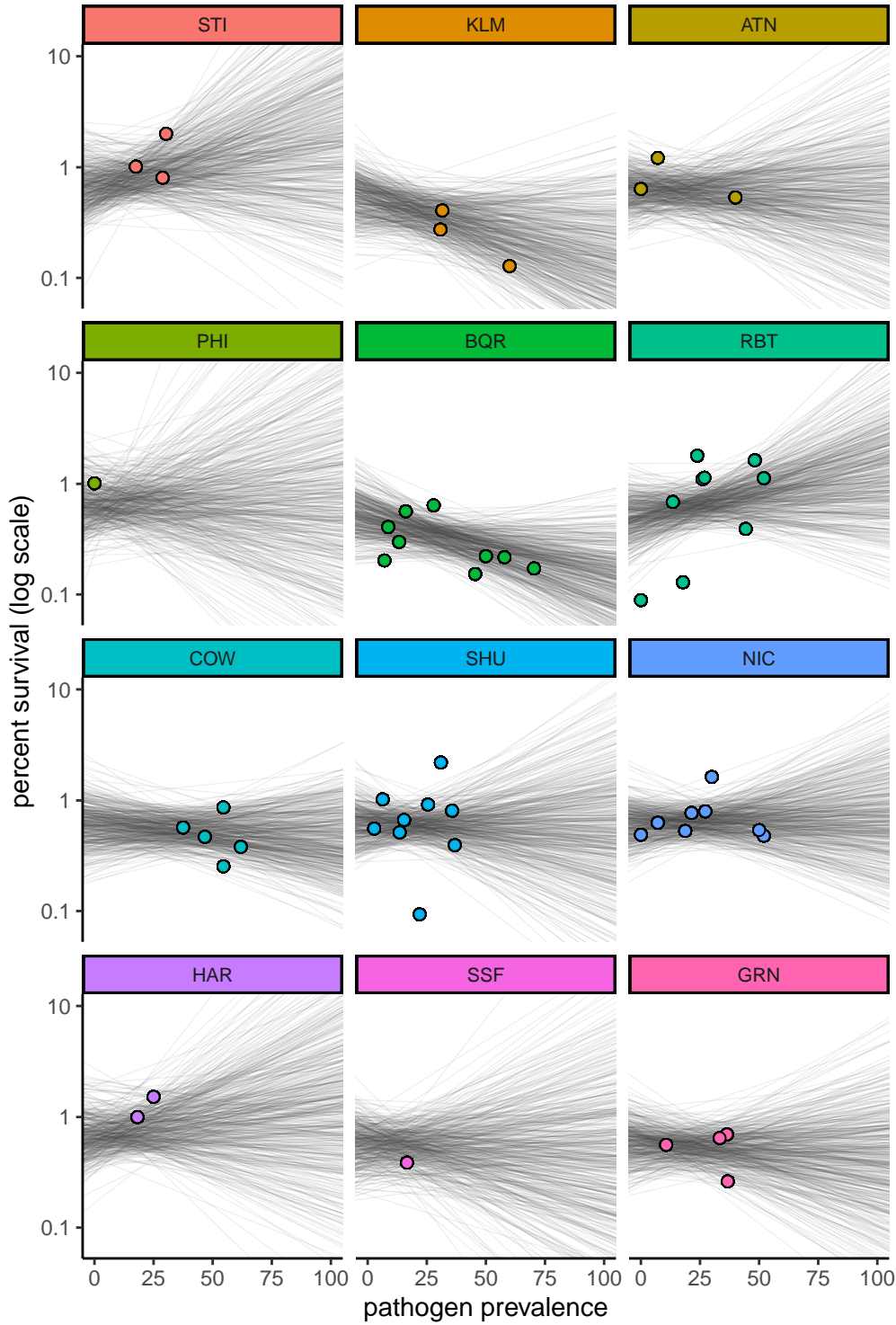
Loma salmonae FaWi



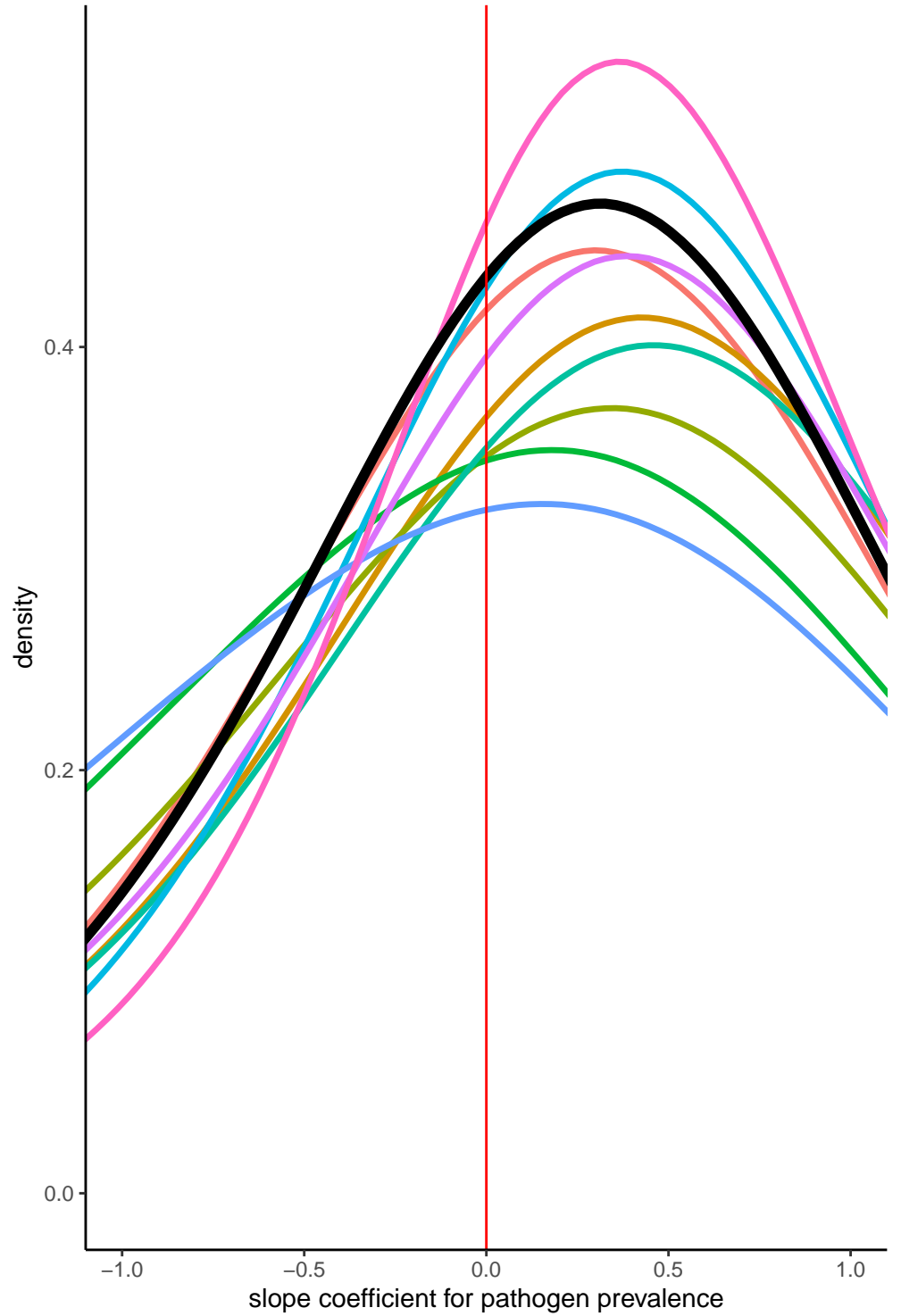
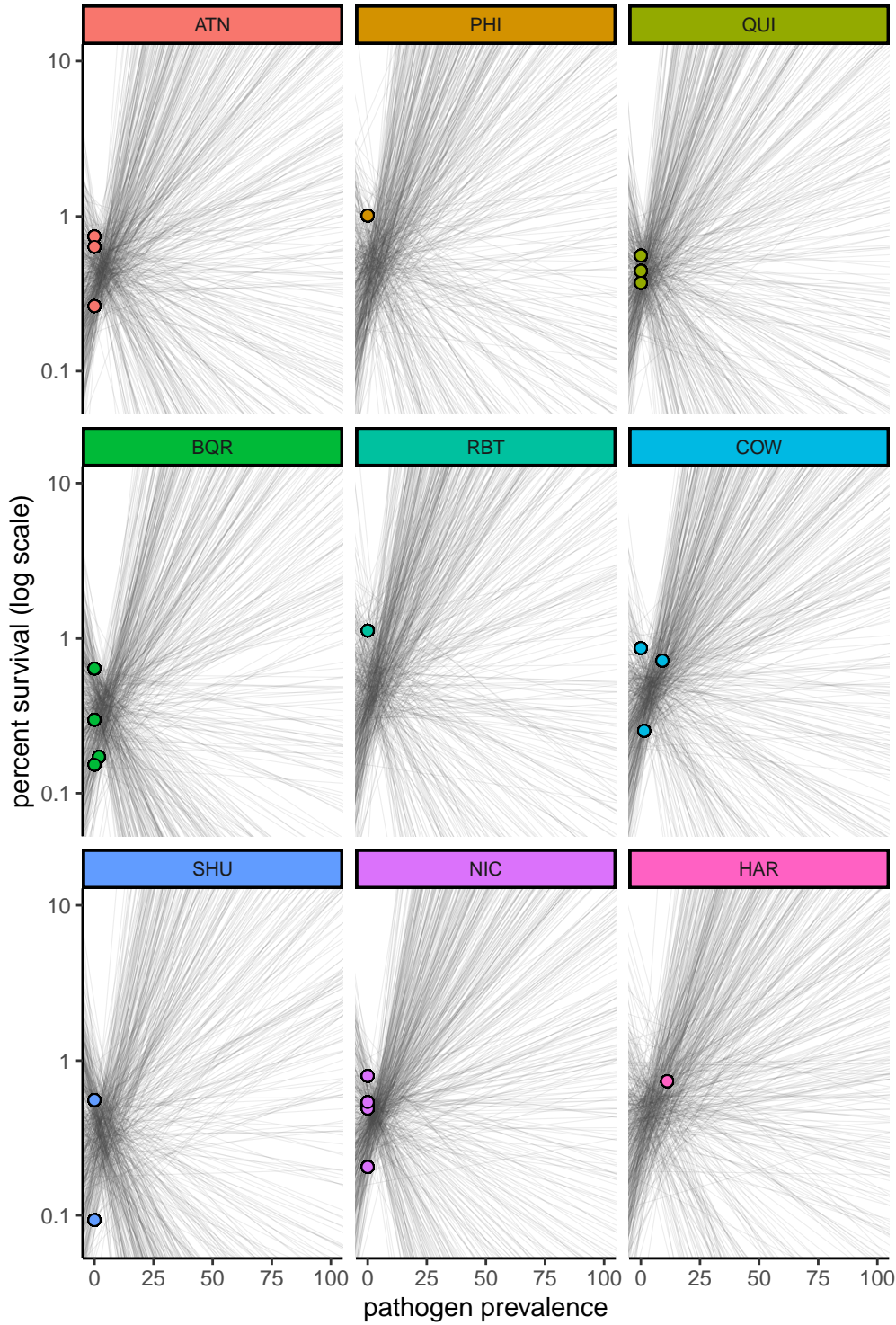
Myxobolus arcticus SpSu



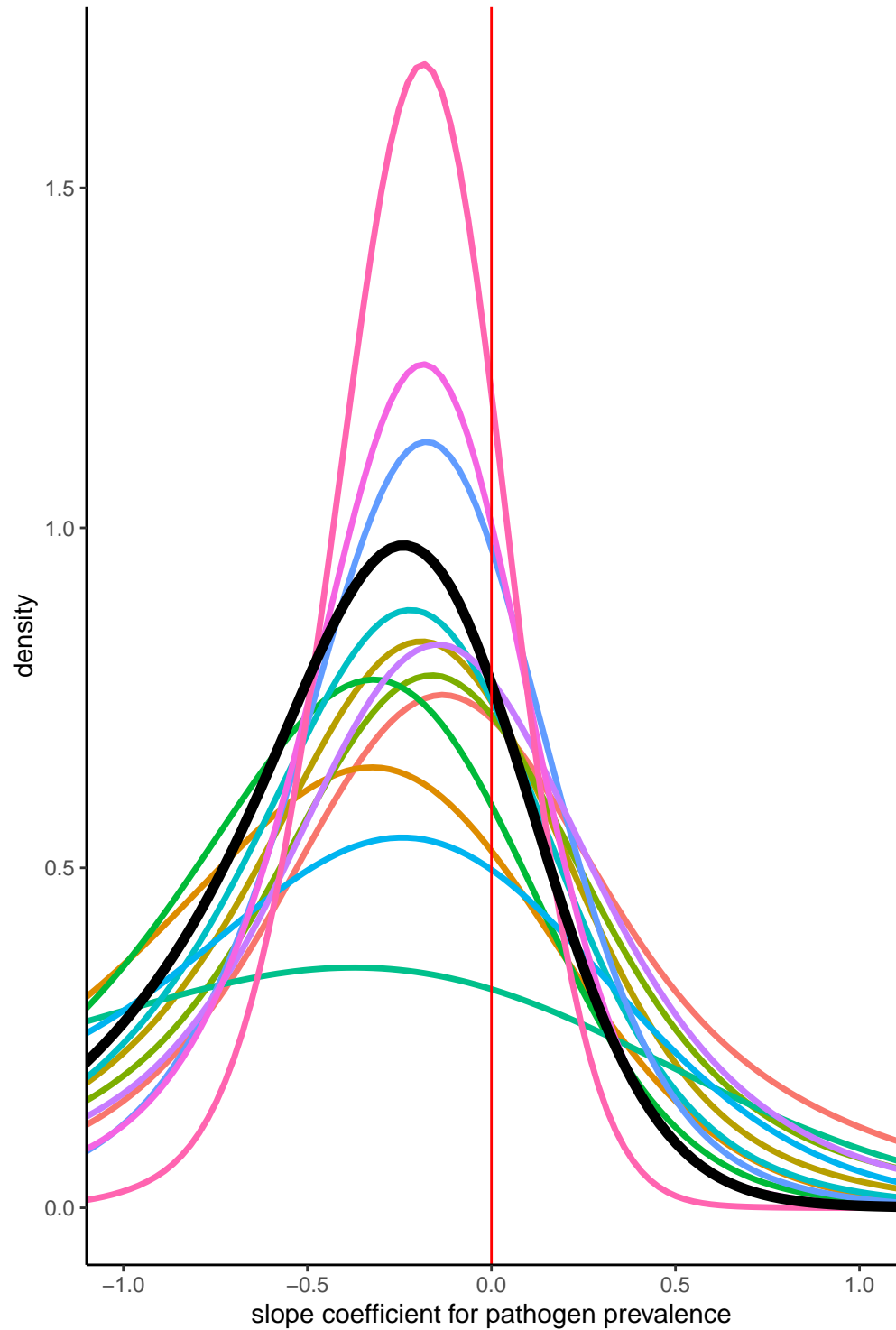
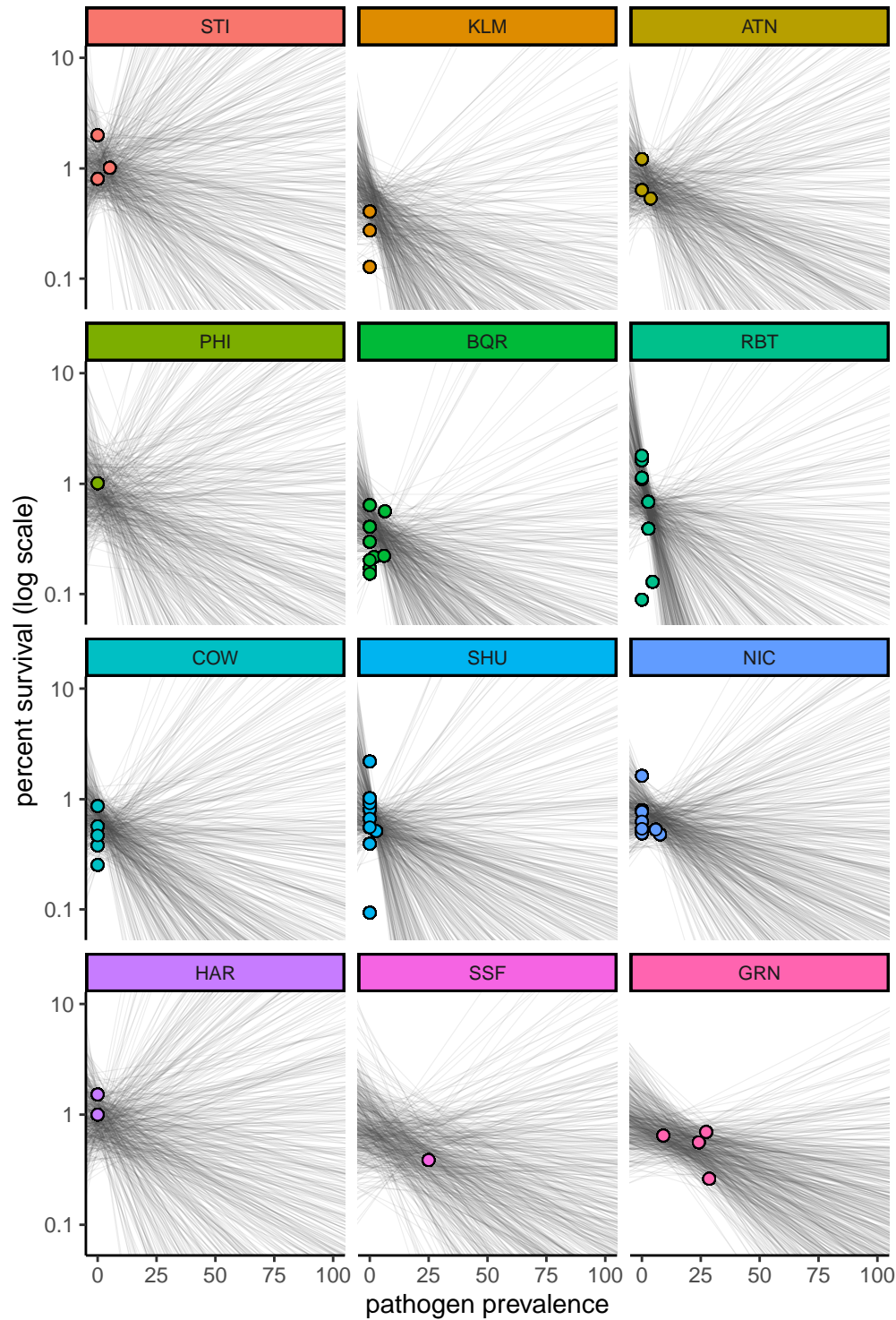
Myxobolus arcticus FaWi



Nanophyetus salmincola SpSu

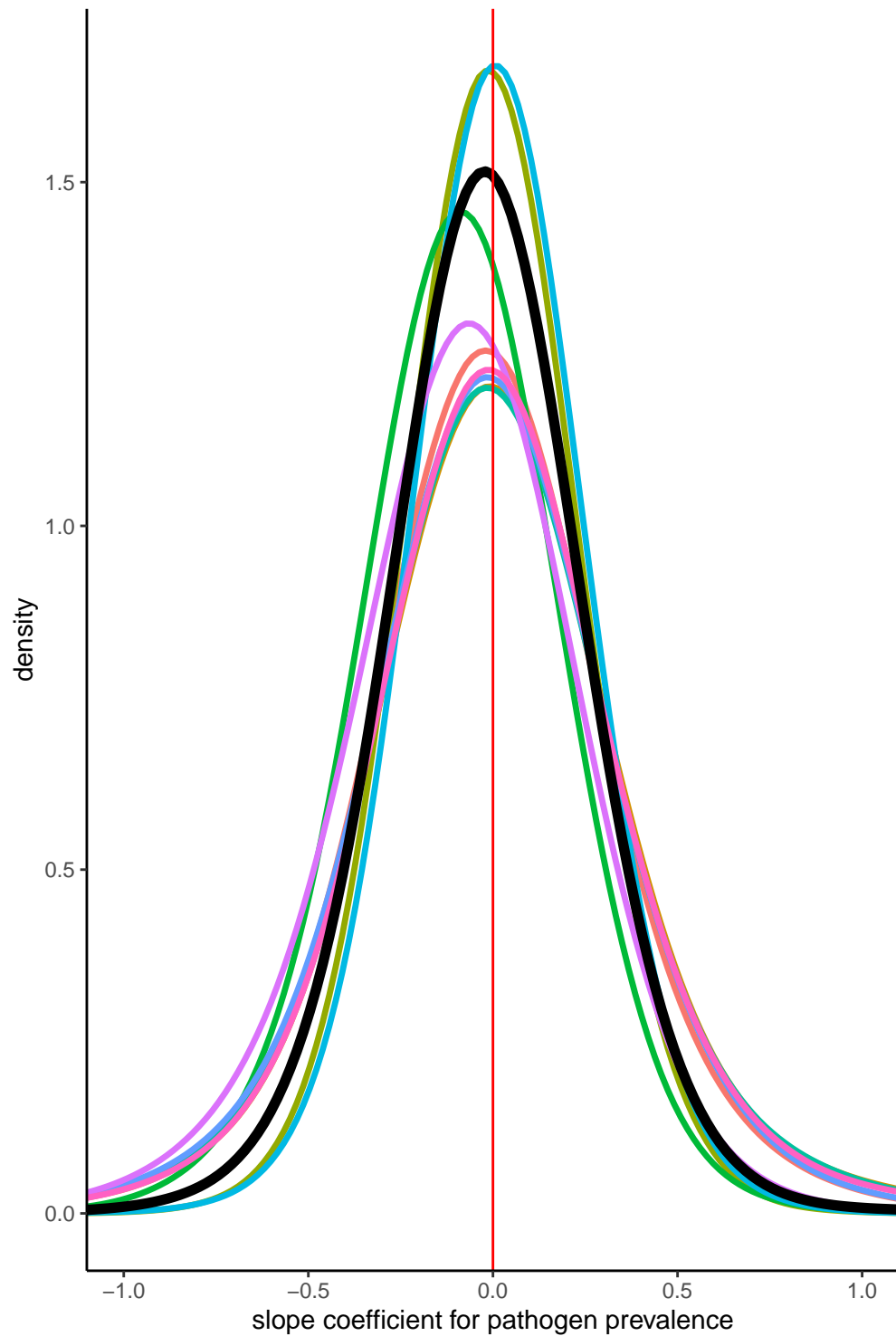
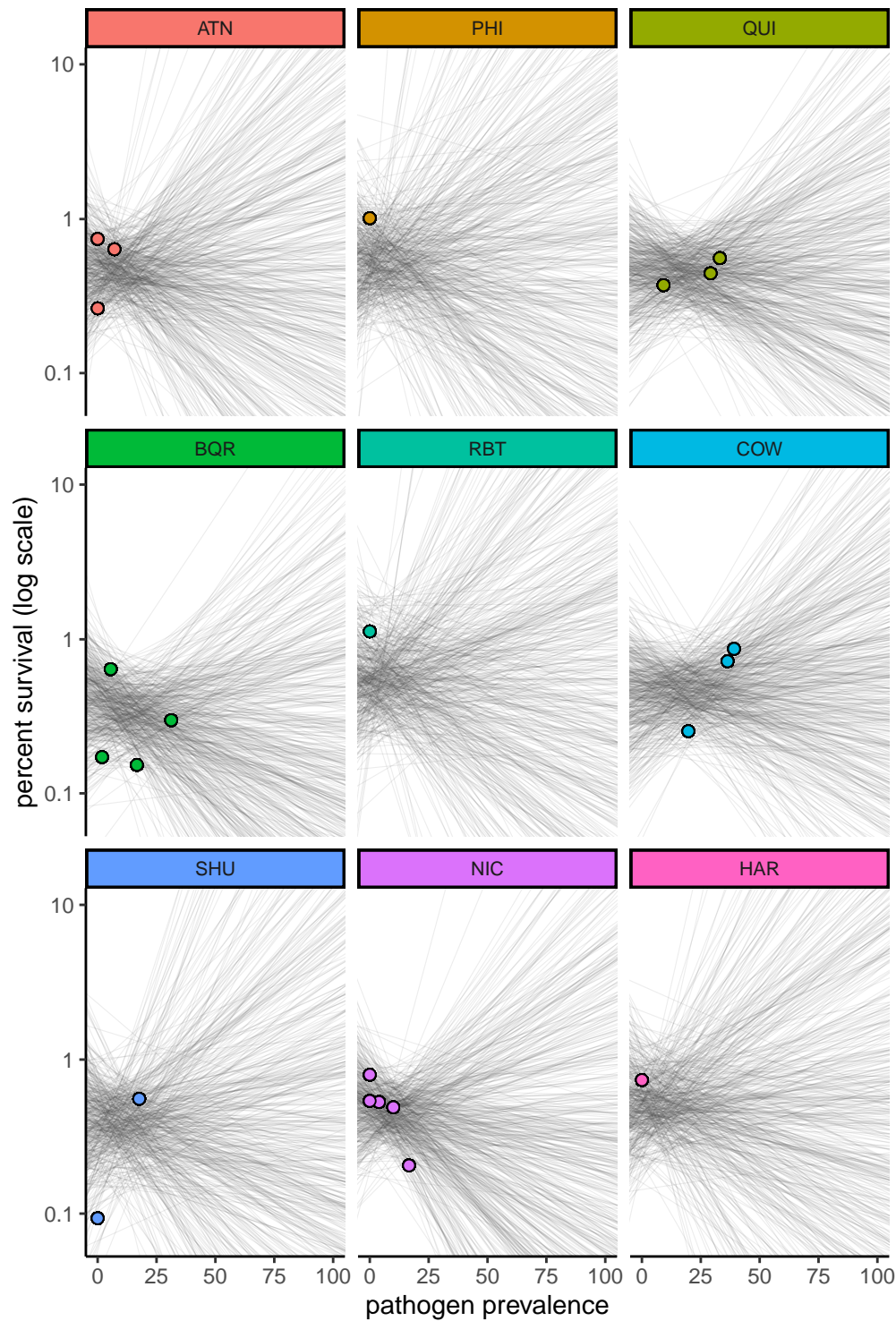


Nanophyetus salmincola FaWi

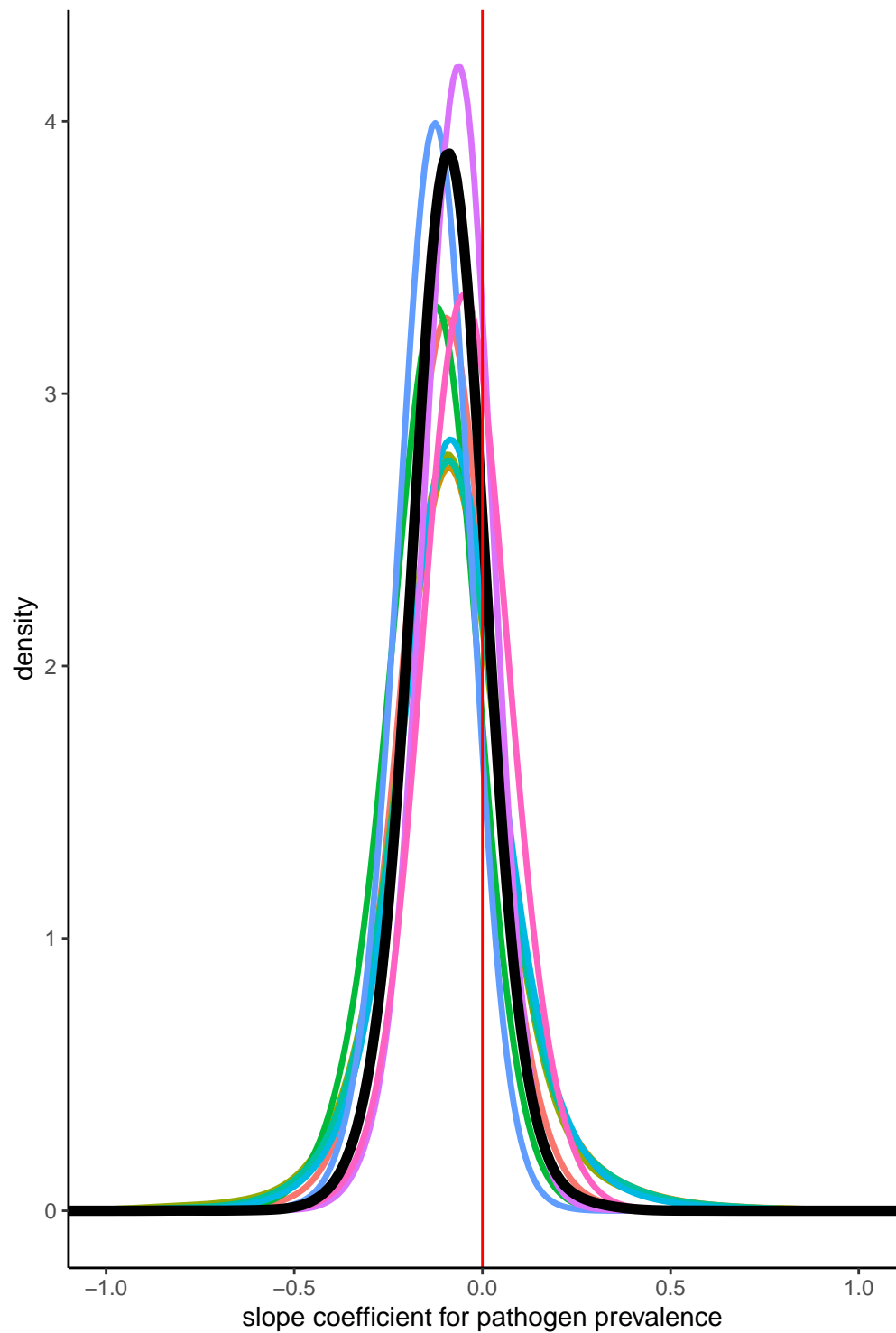
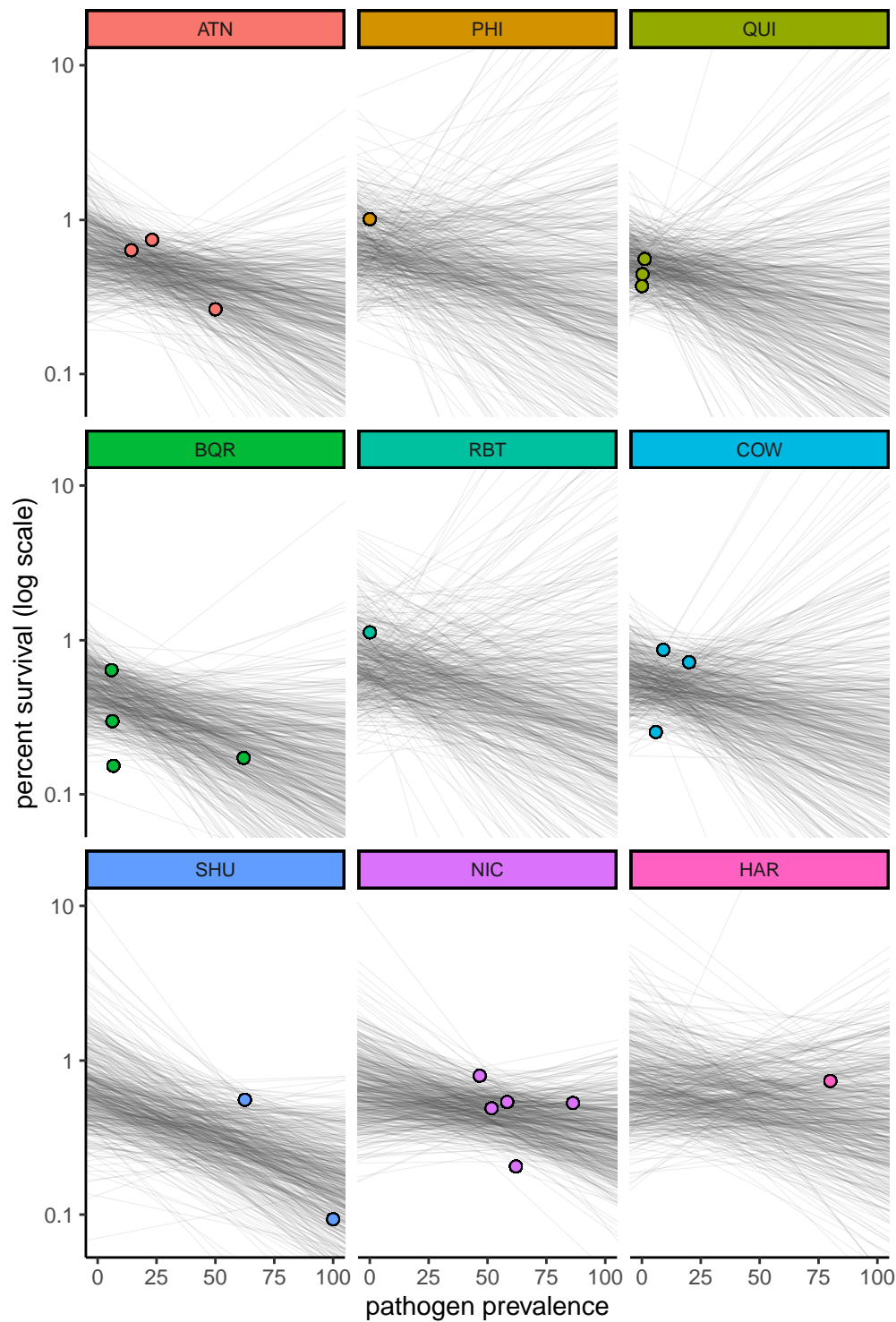




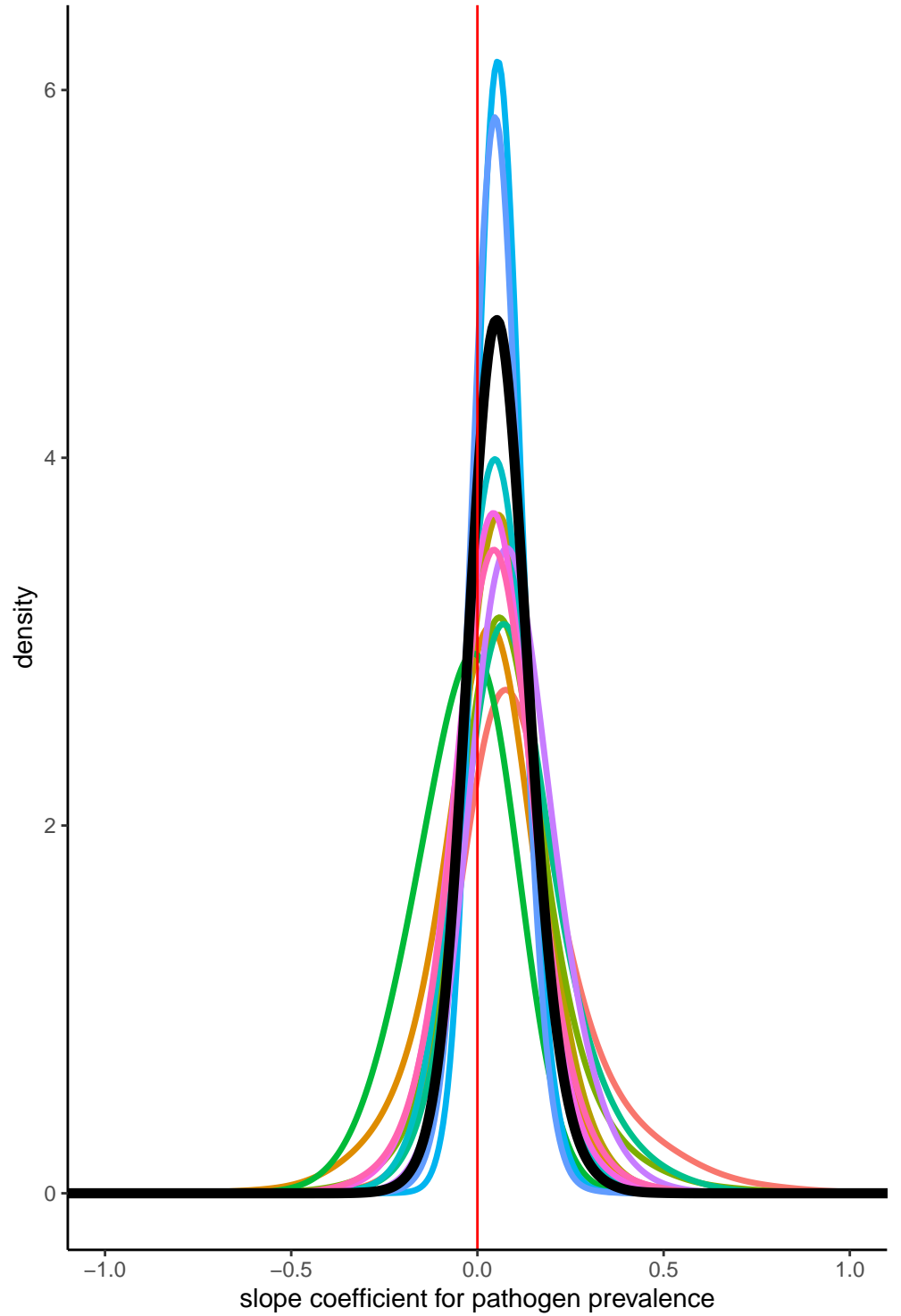
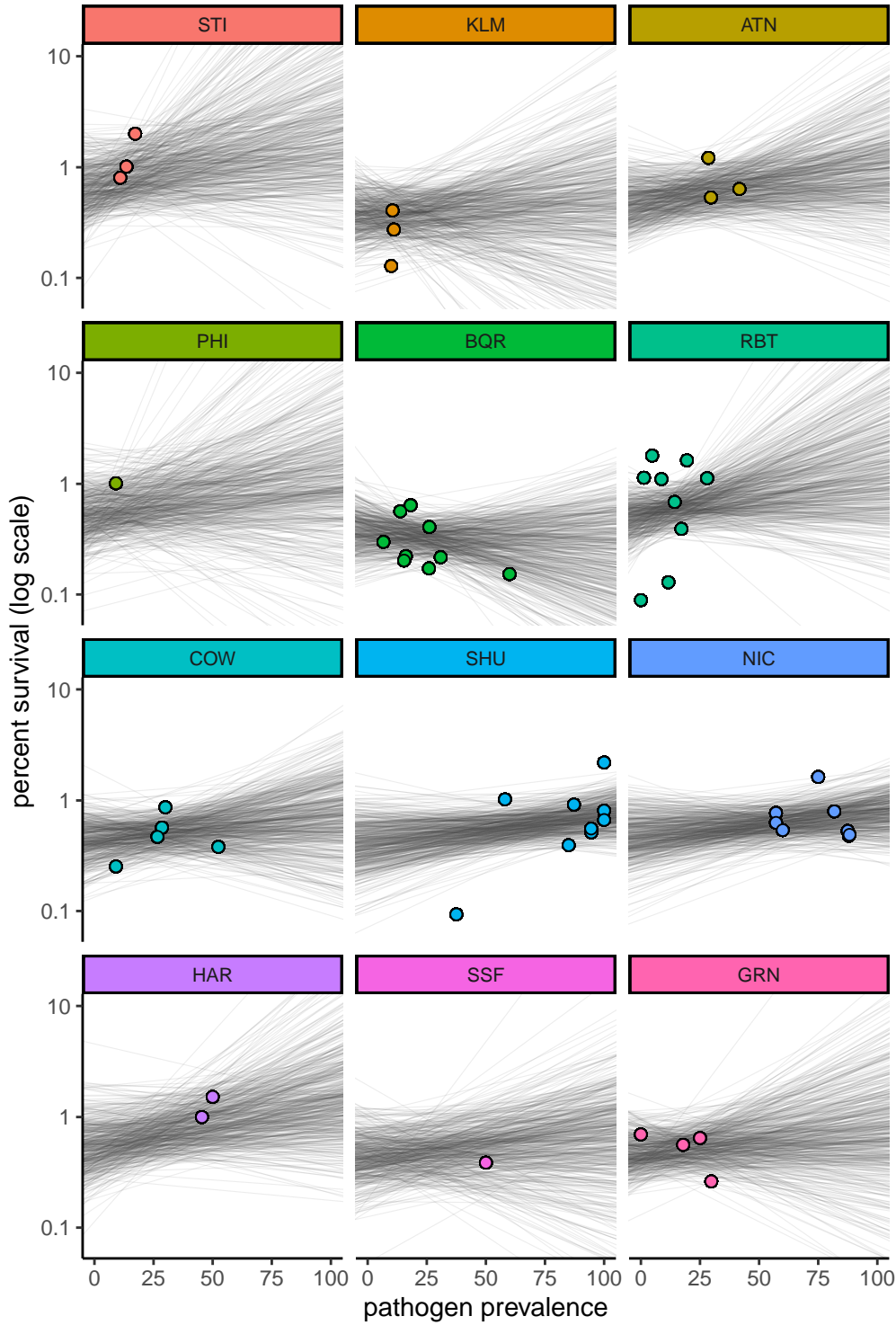
Parvicapsula kabatai SpSu



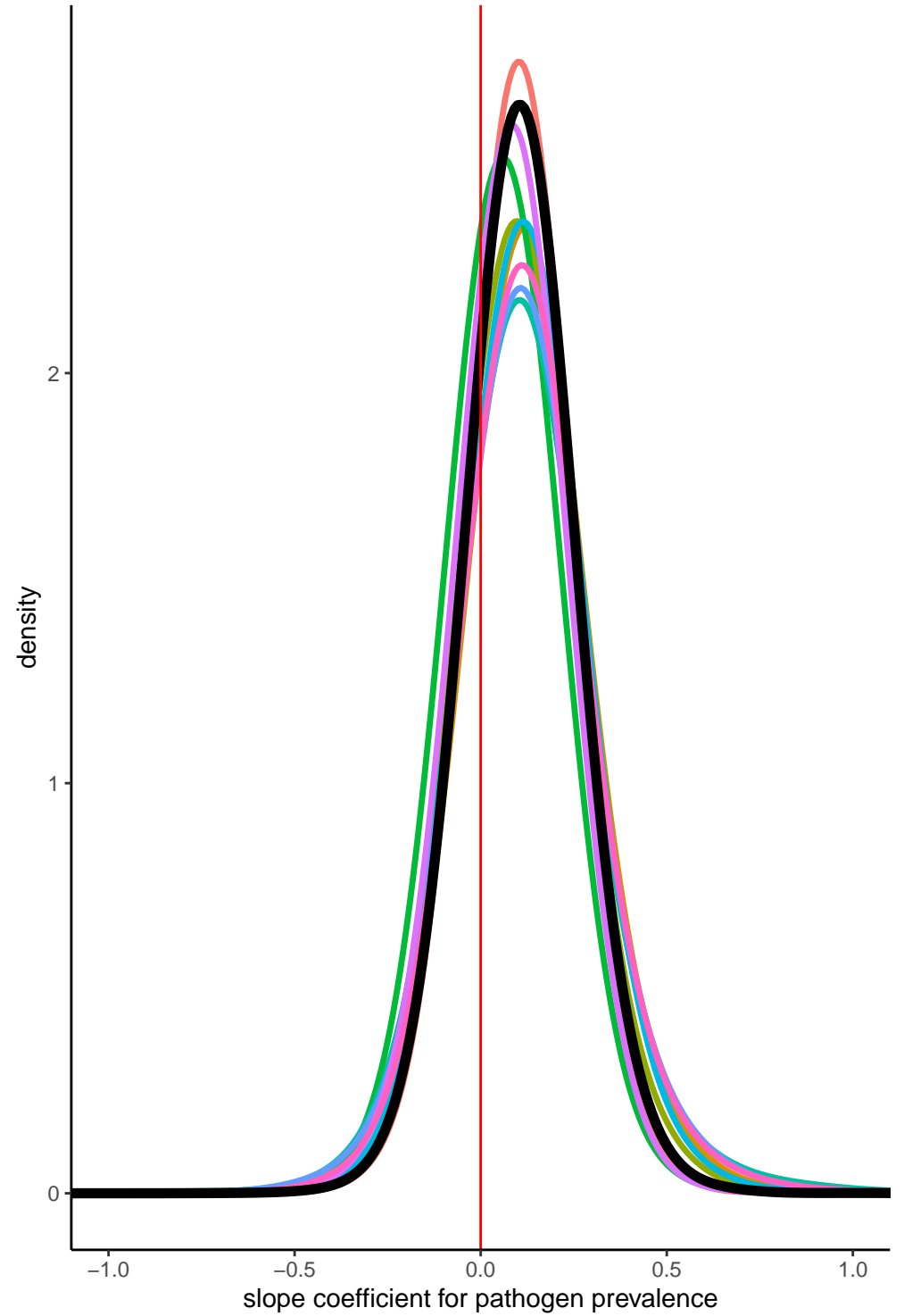
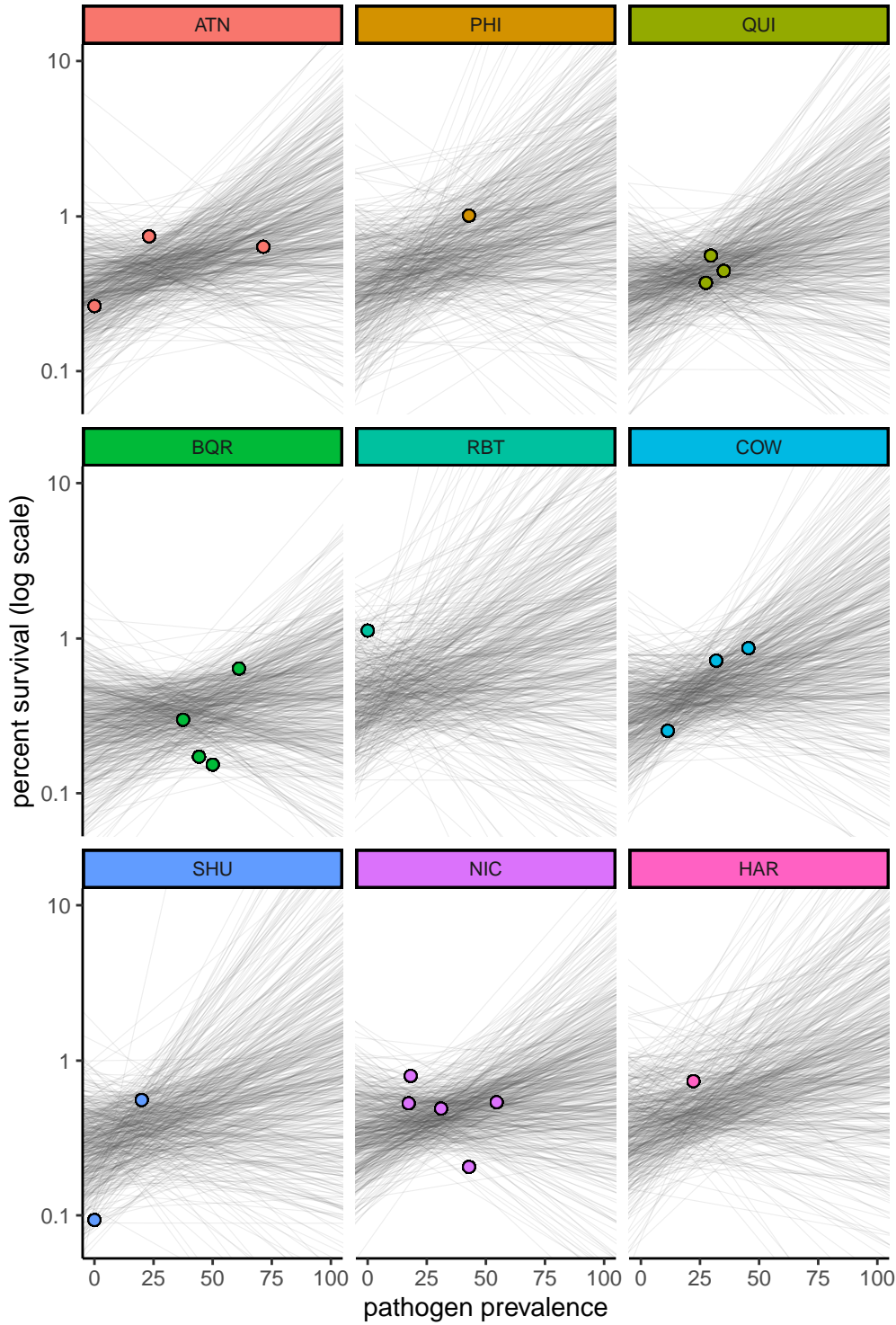
Parvicapsula minibicornis SpSu



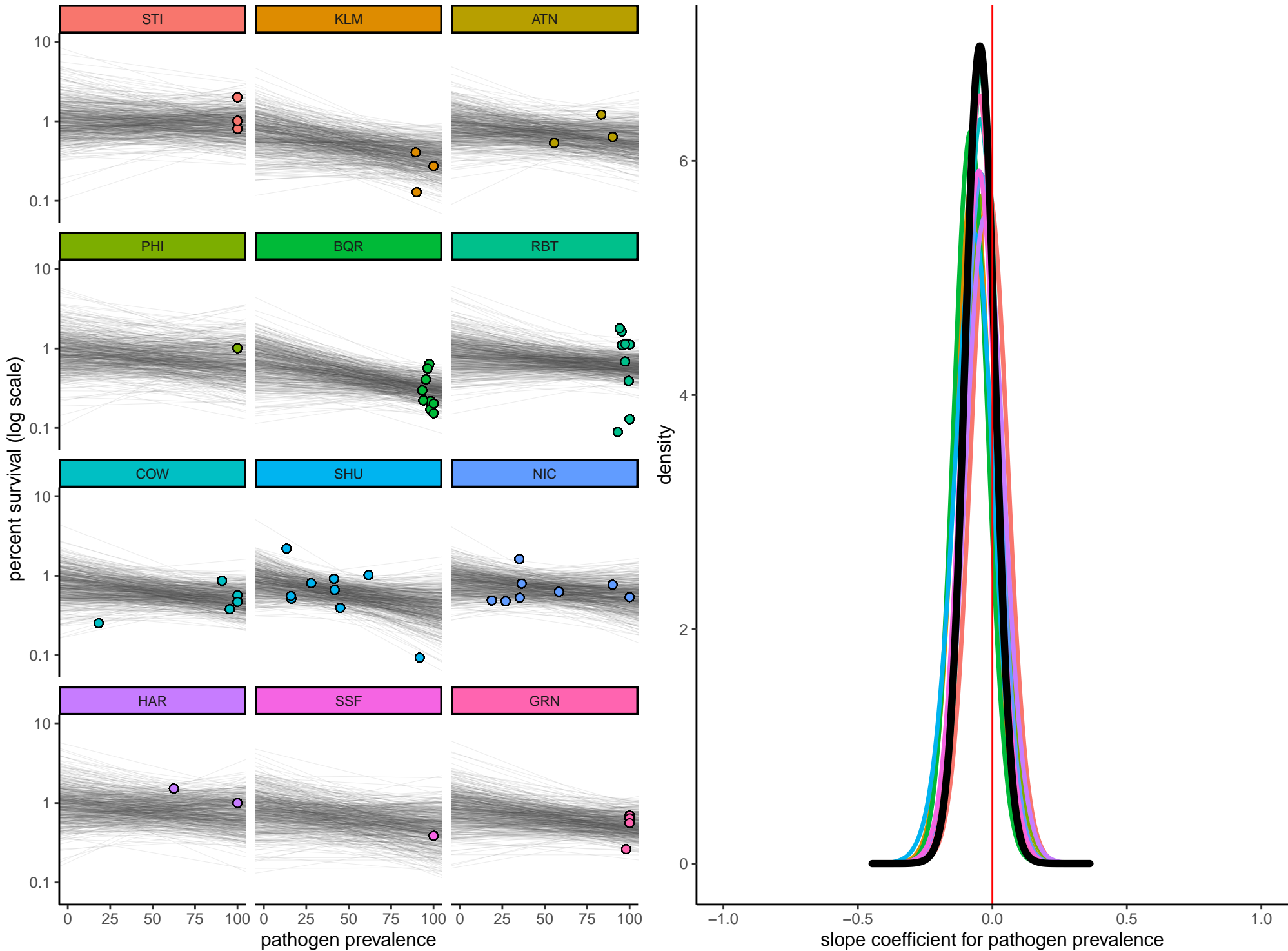
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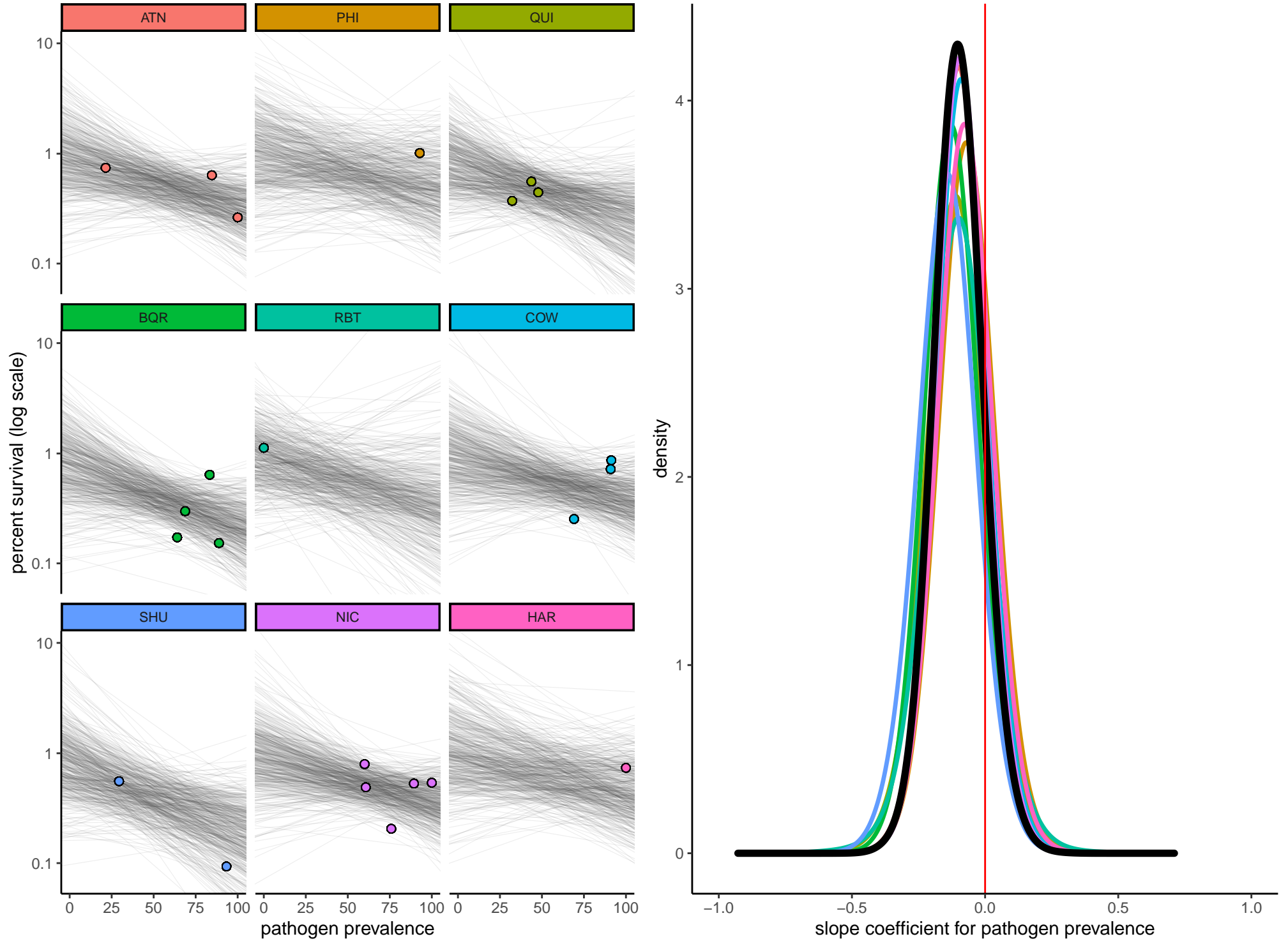
Parvicapsula pseudobranchicola SpSu



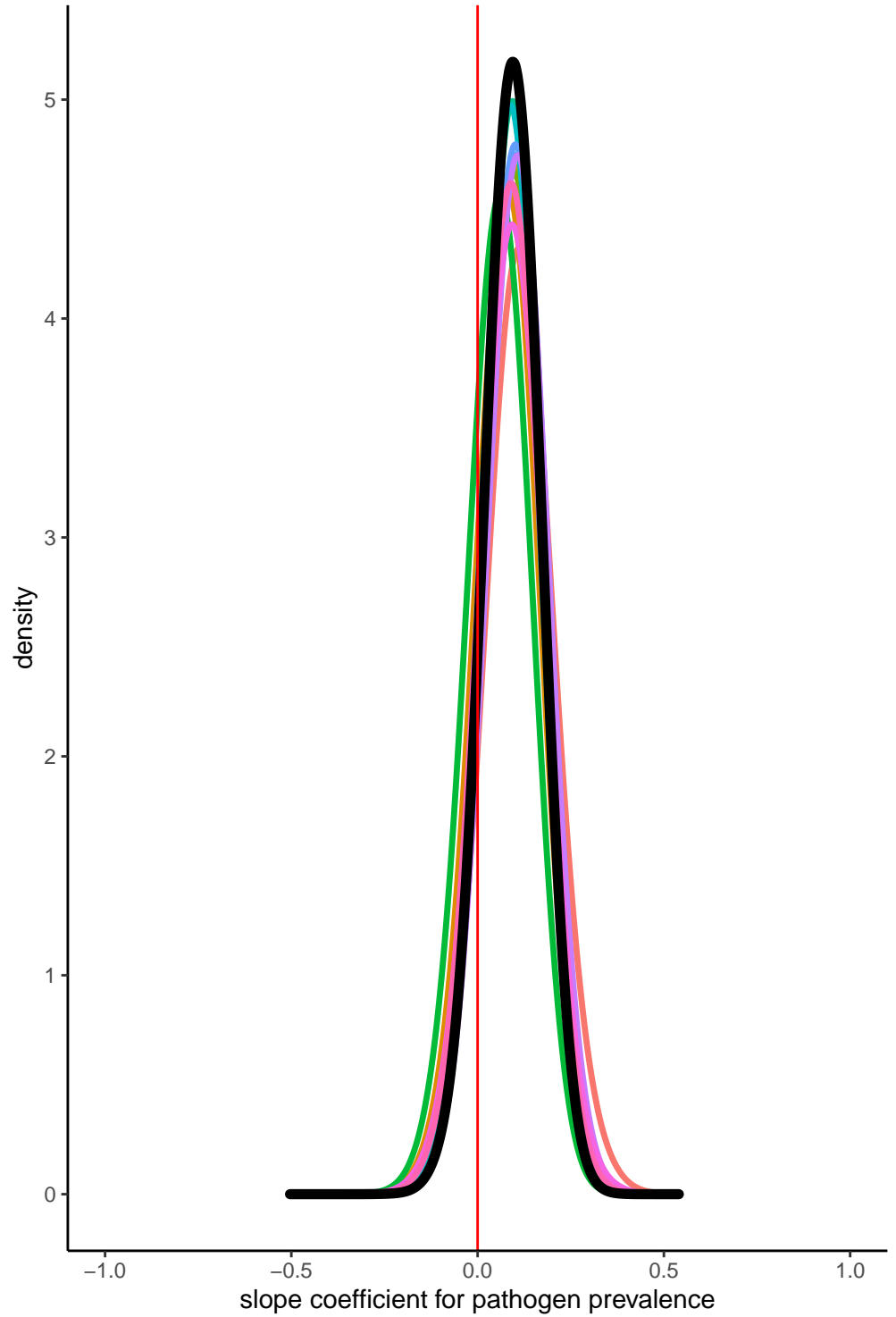
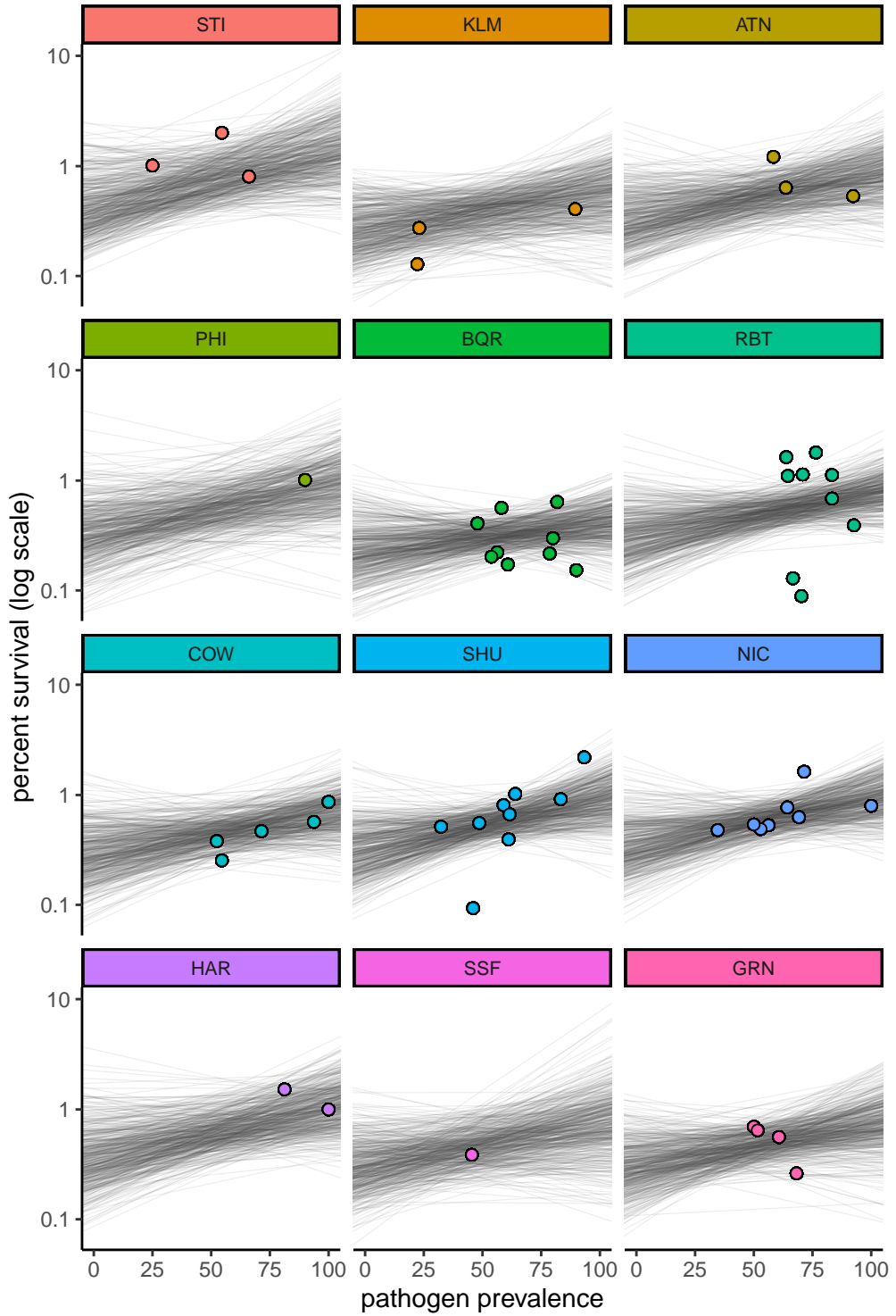
Parvicapsula pseudobranchicola FaWi



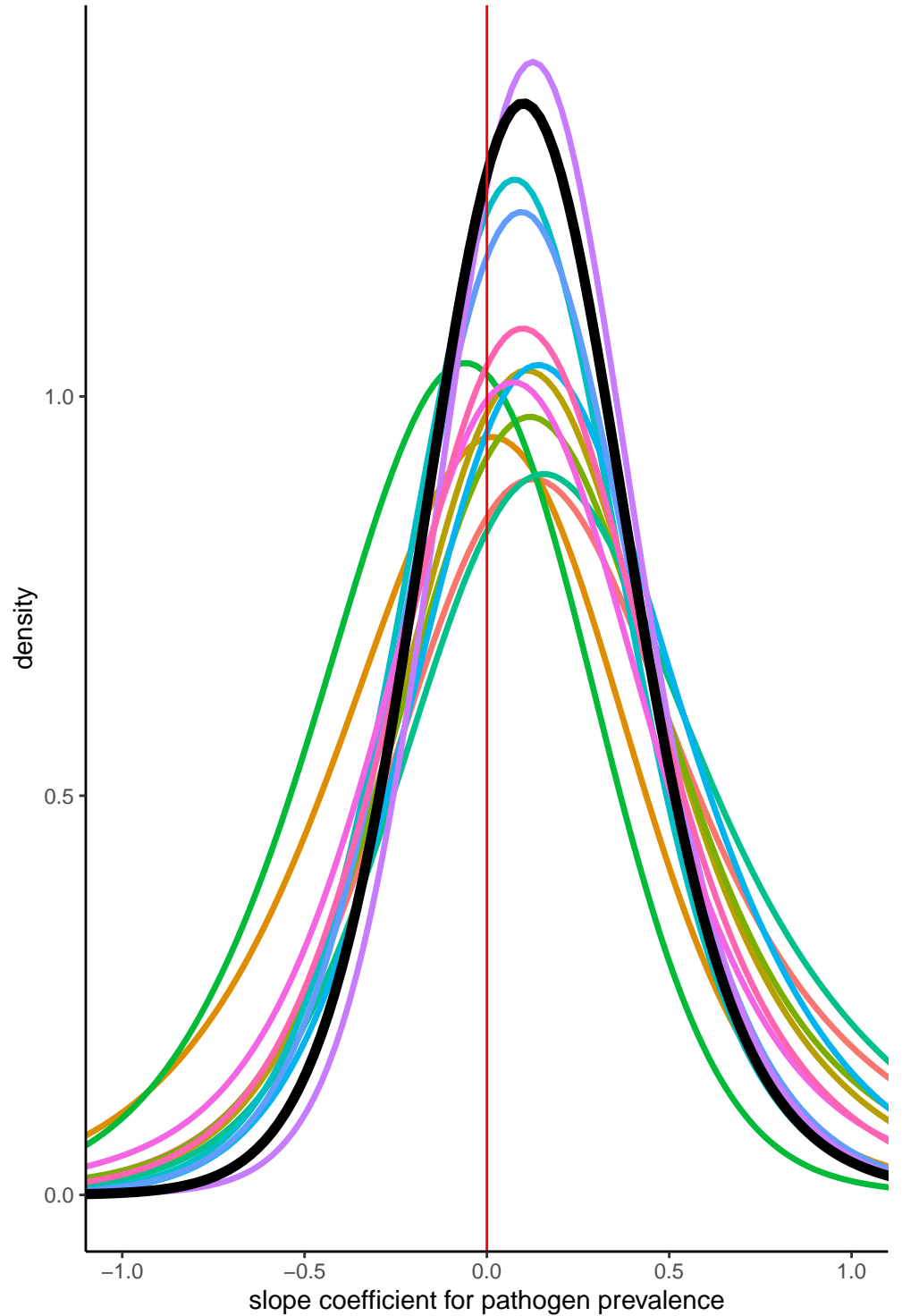
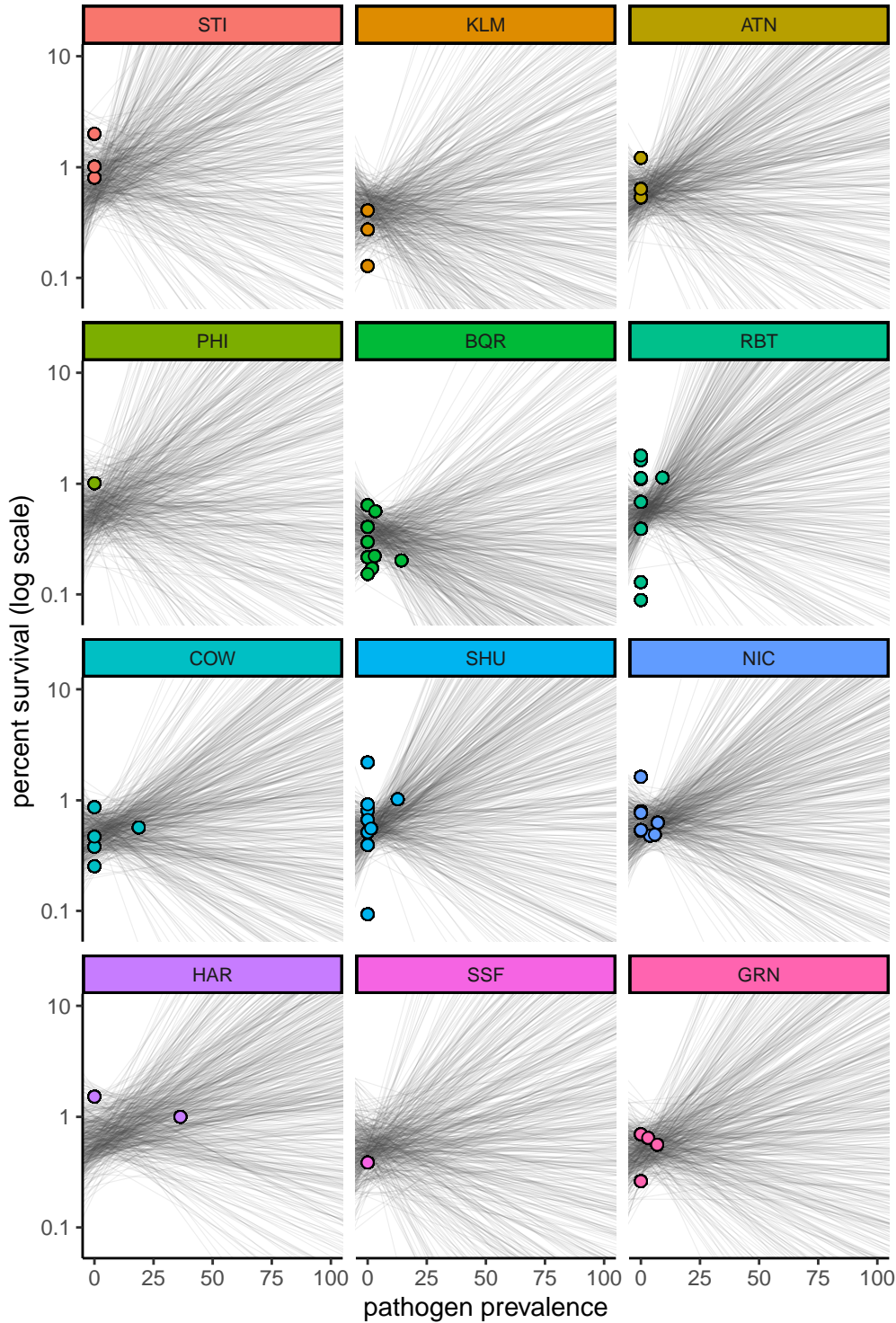
Paranucleospora theridion SpSu



Paranucleospora theridion FaWi

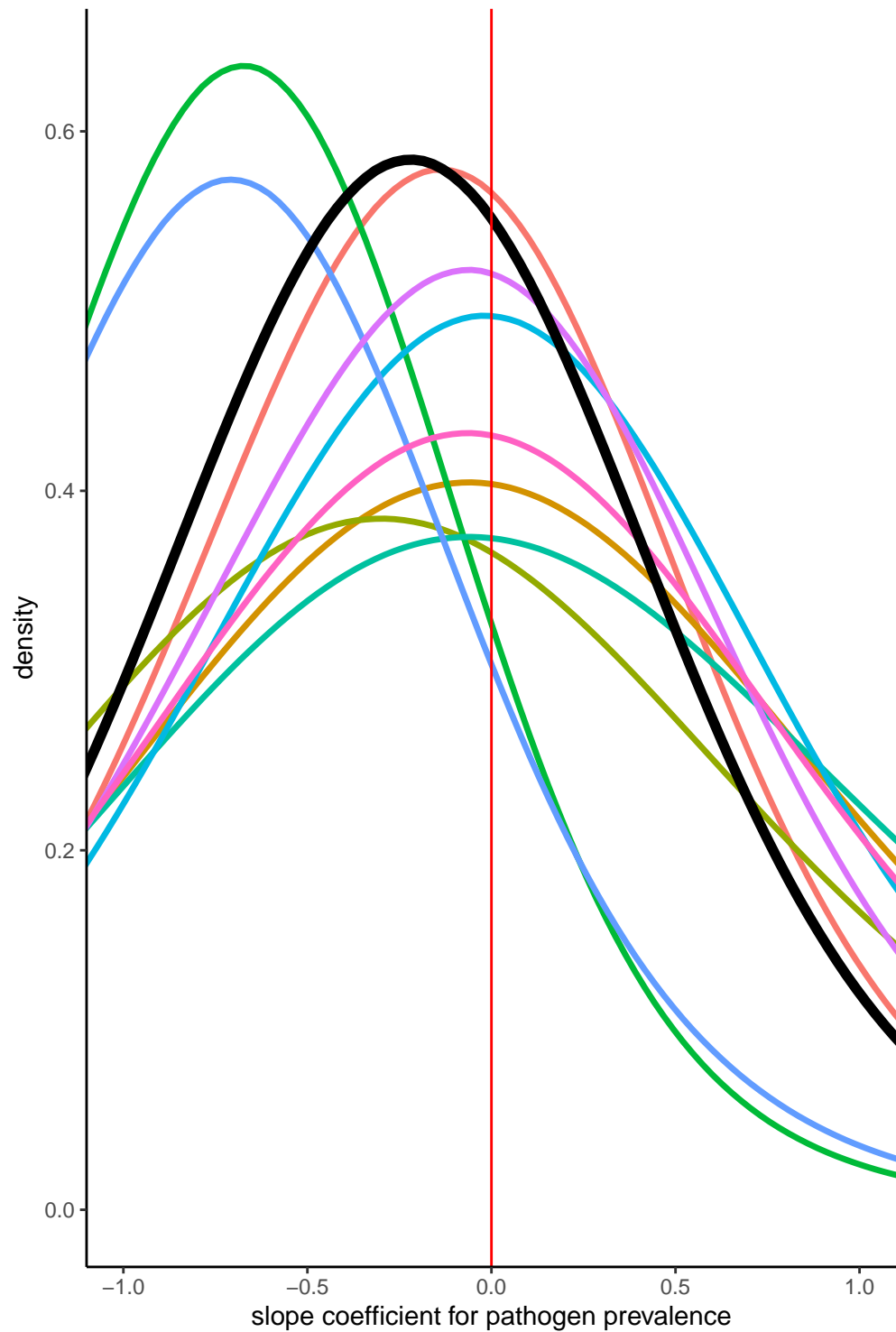
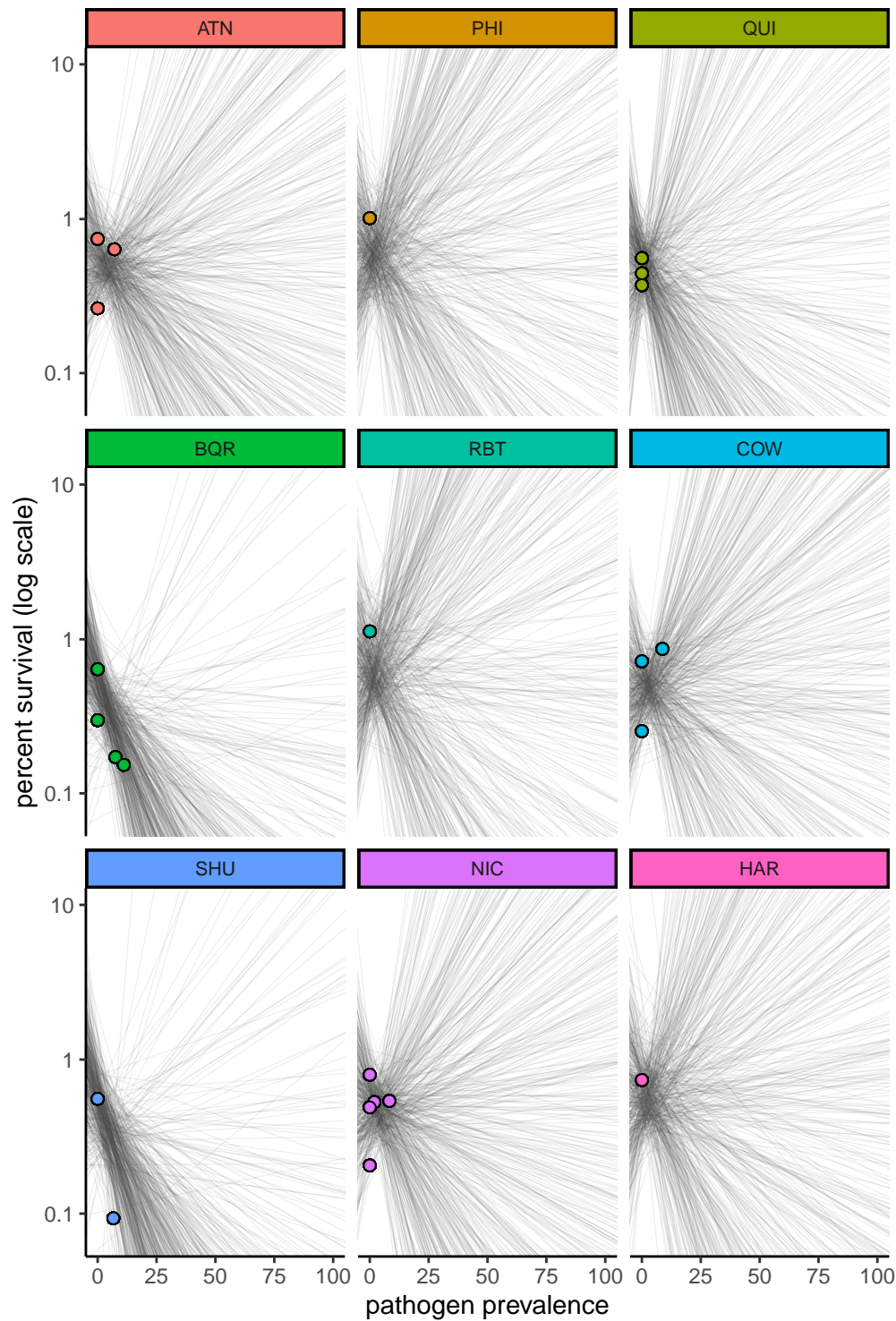


*Piscirickettsia salmonis* FaWi

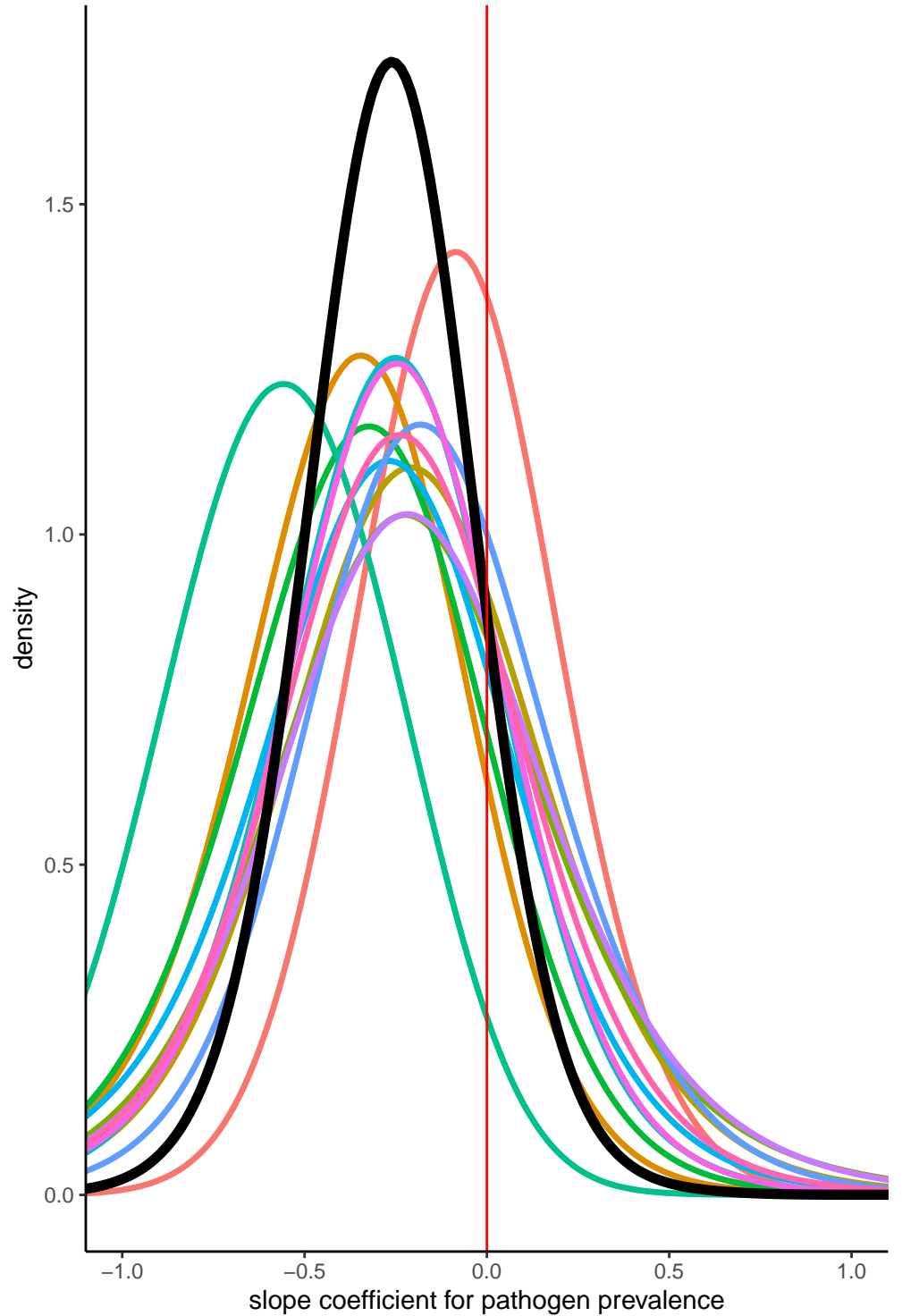
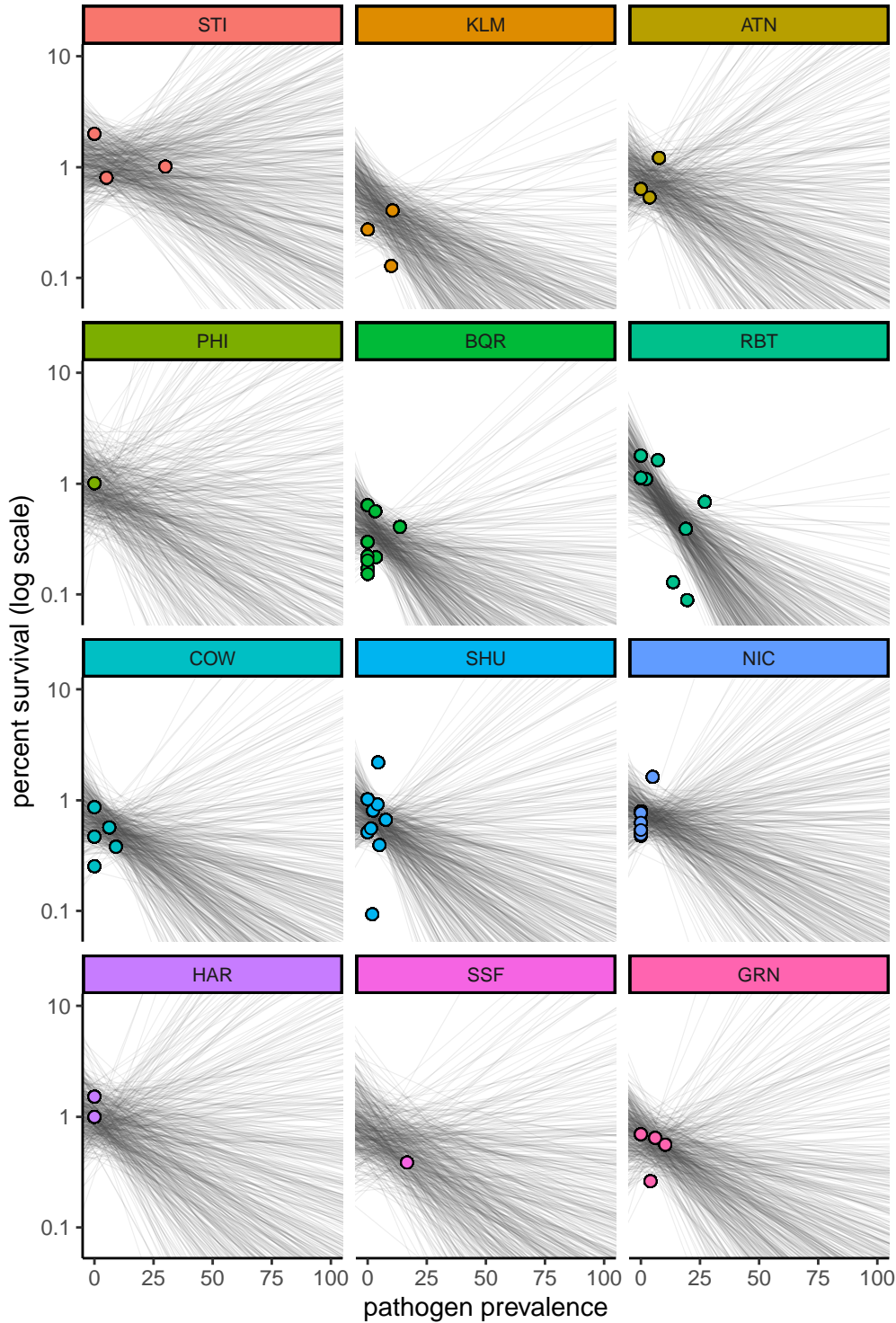




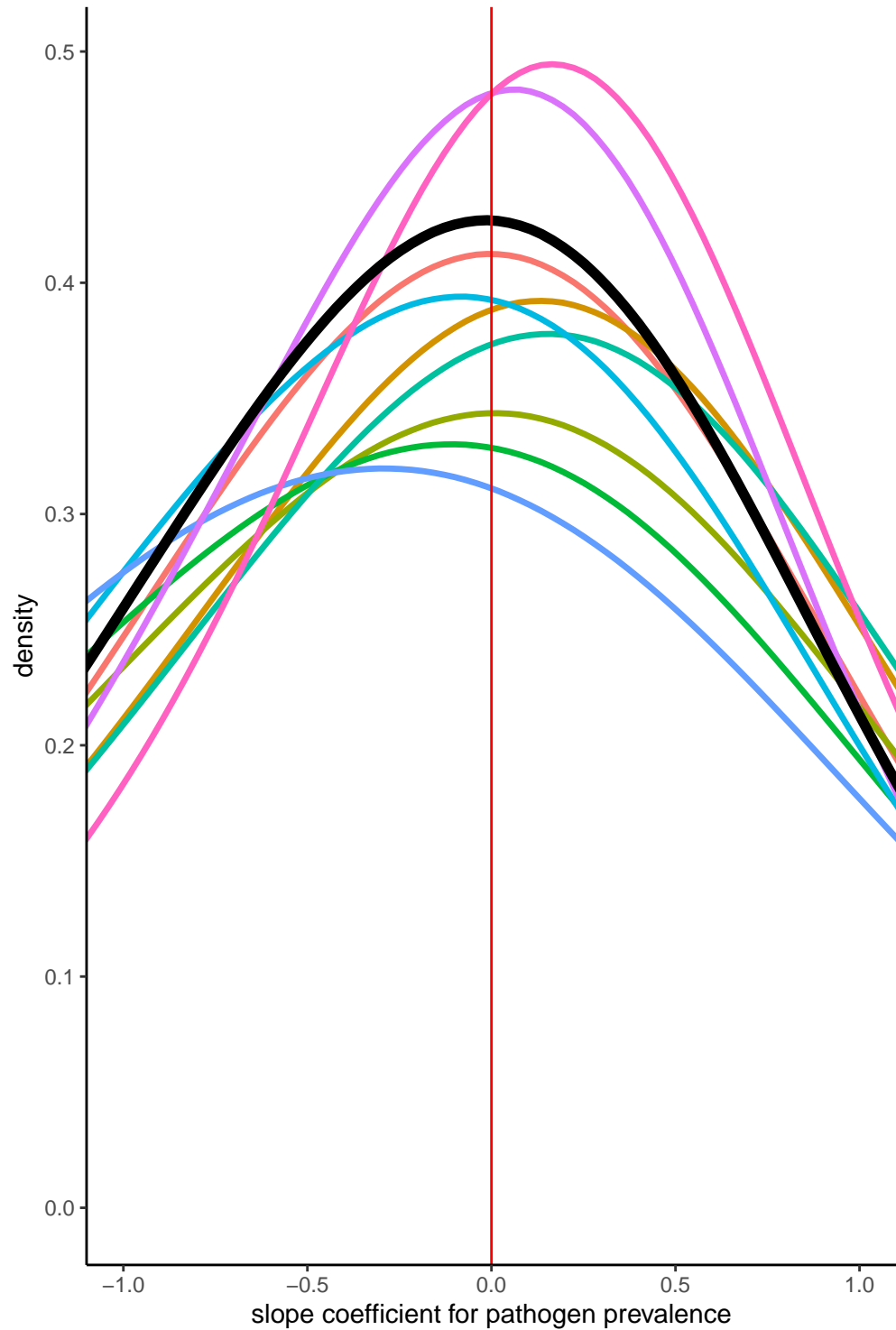
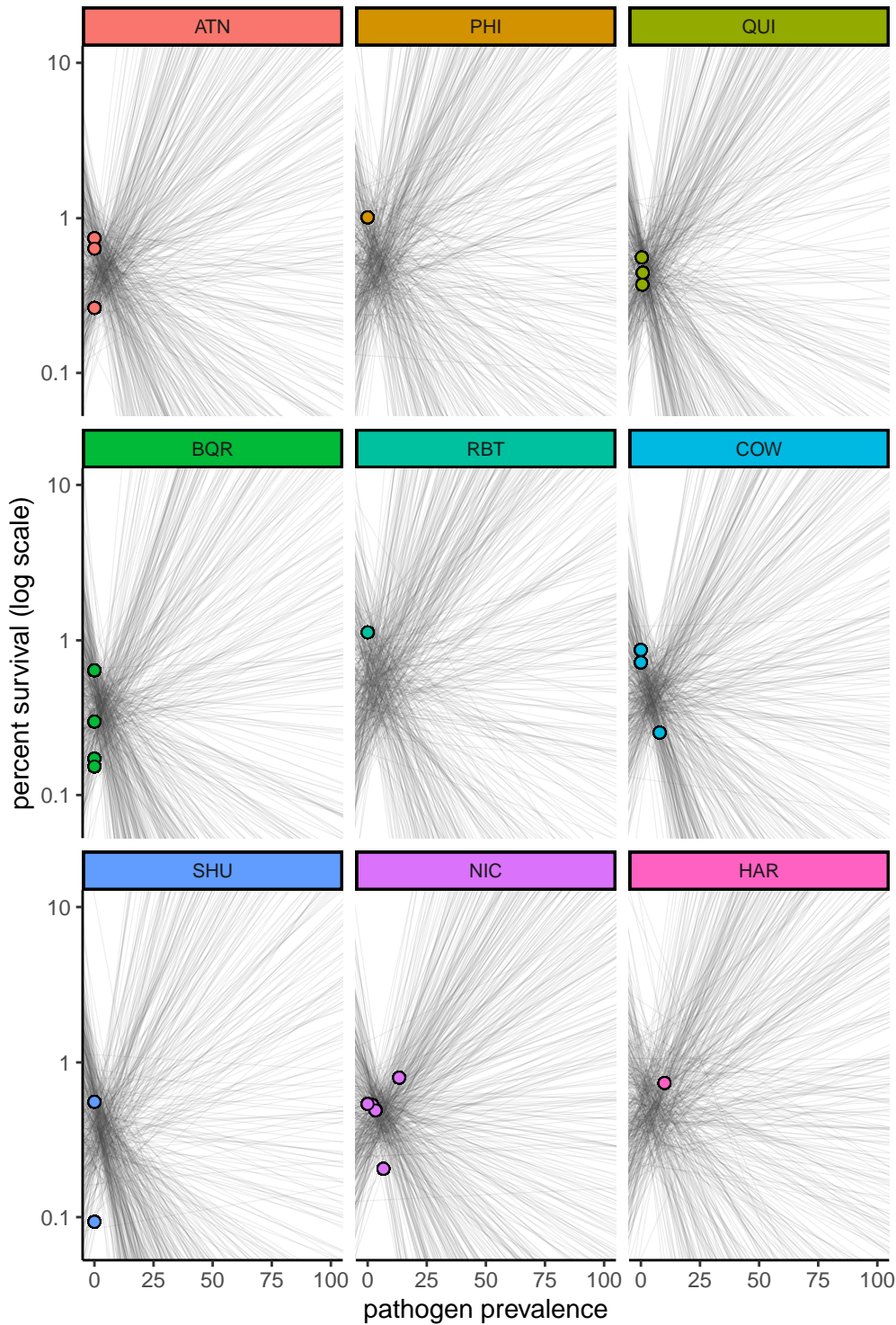
Piscine Orthoreovirus SpSu



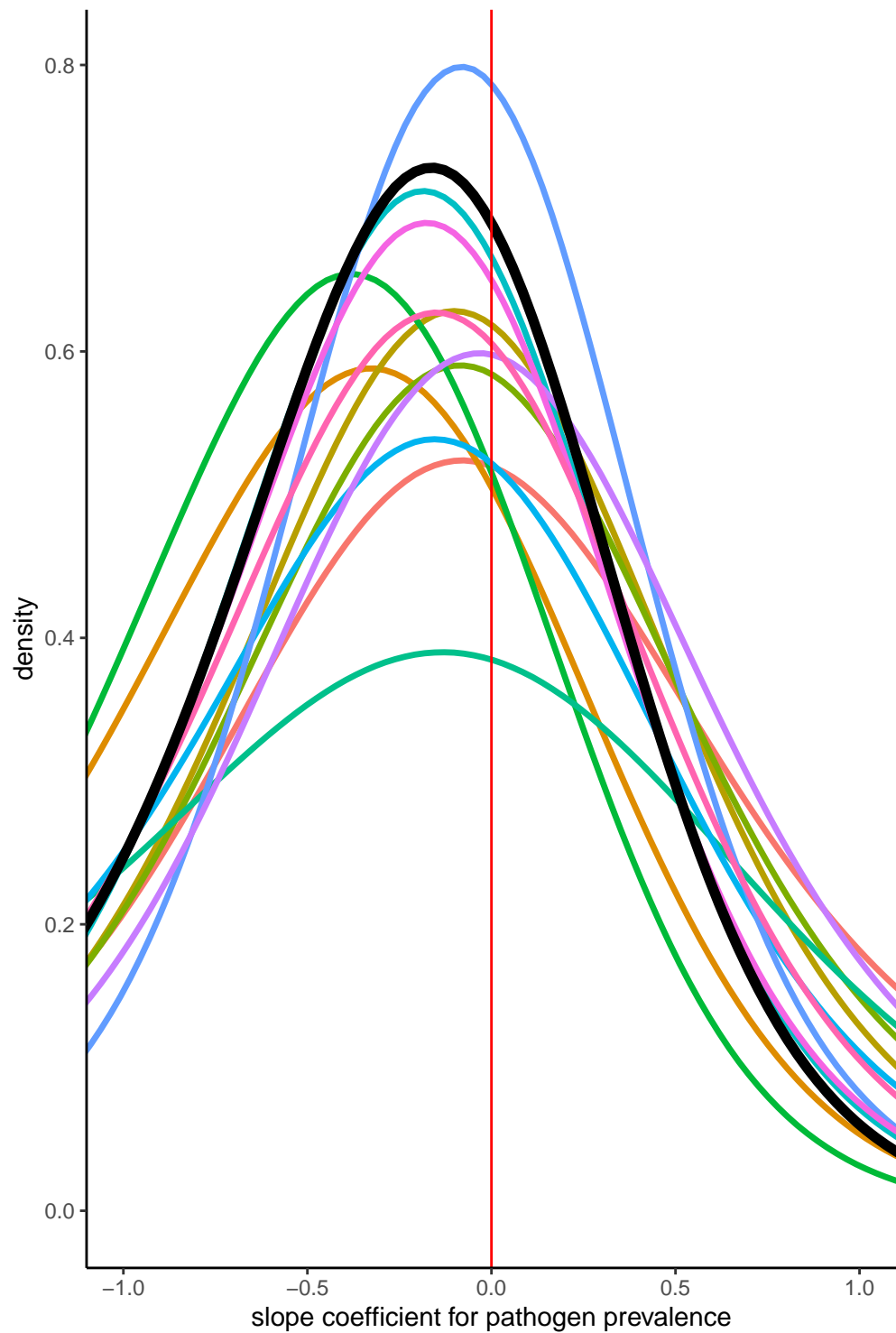
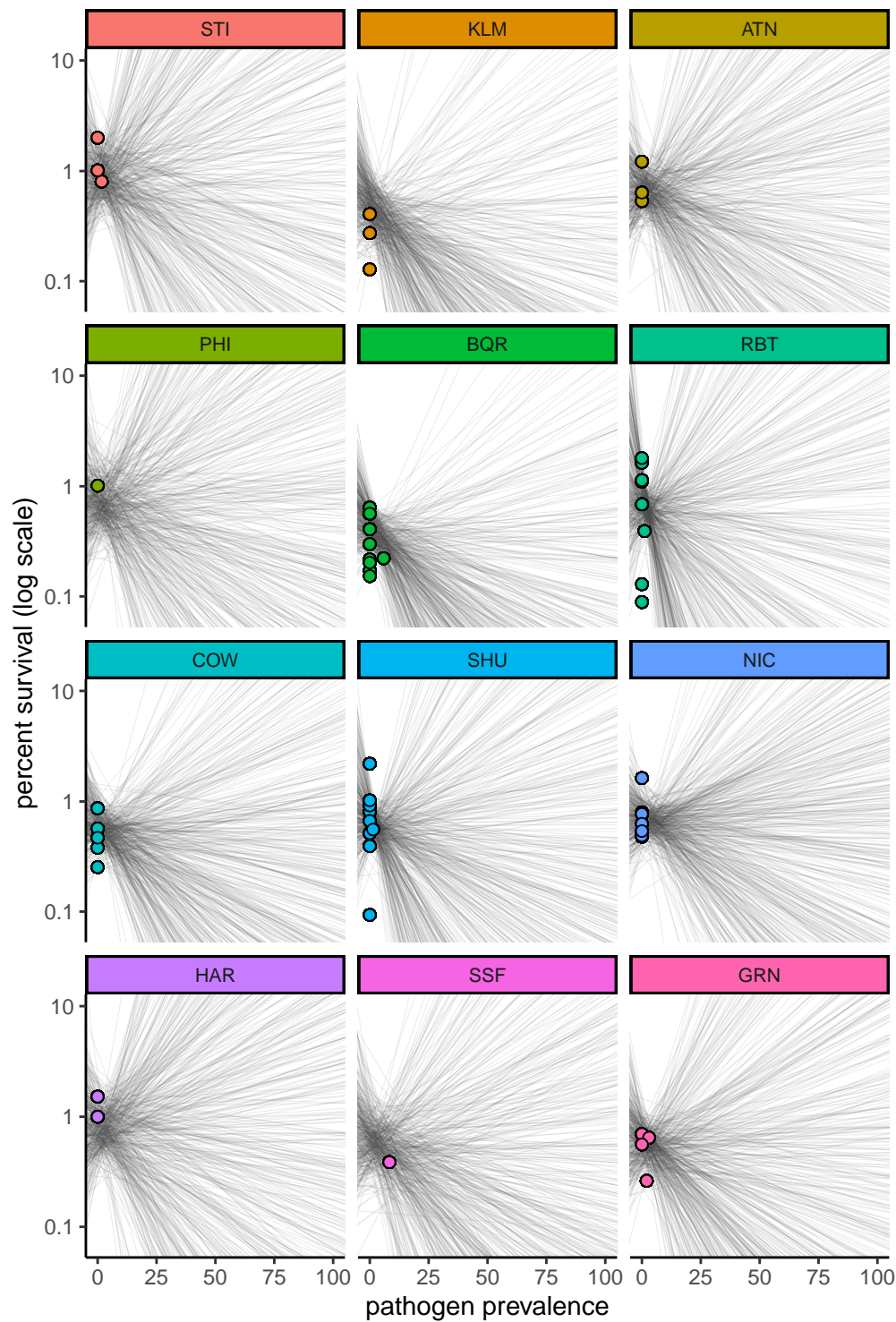
Piscine Orthoreovirus FaWi



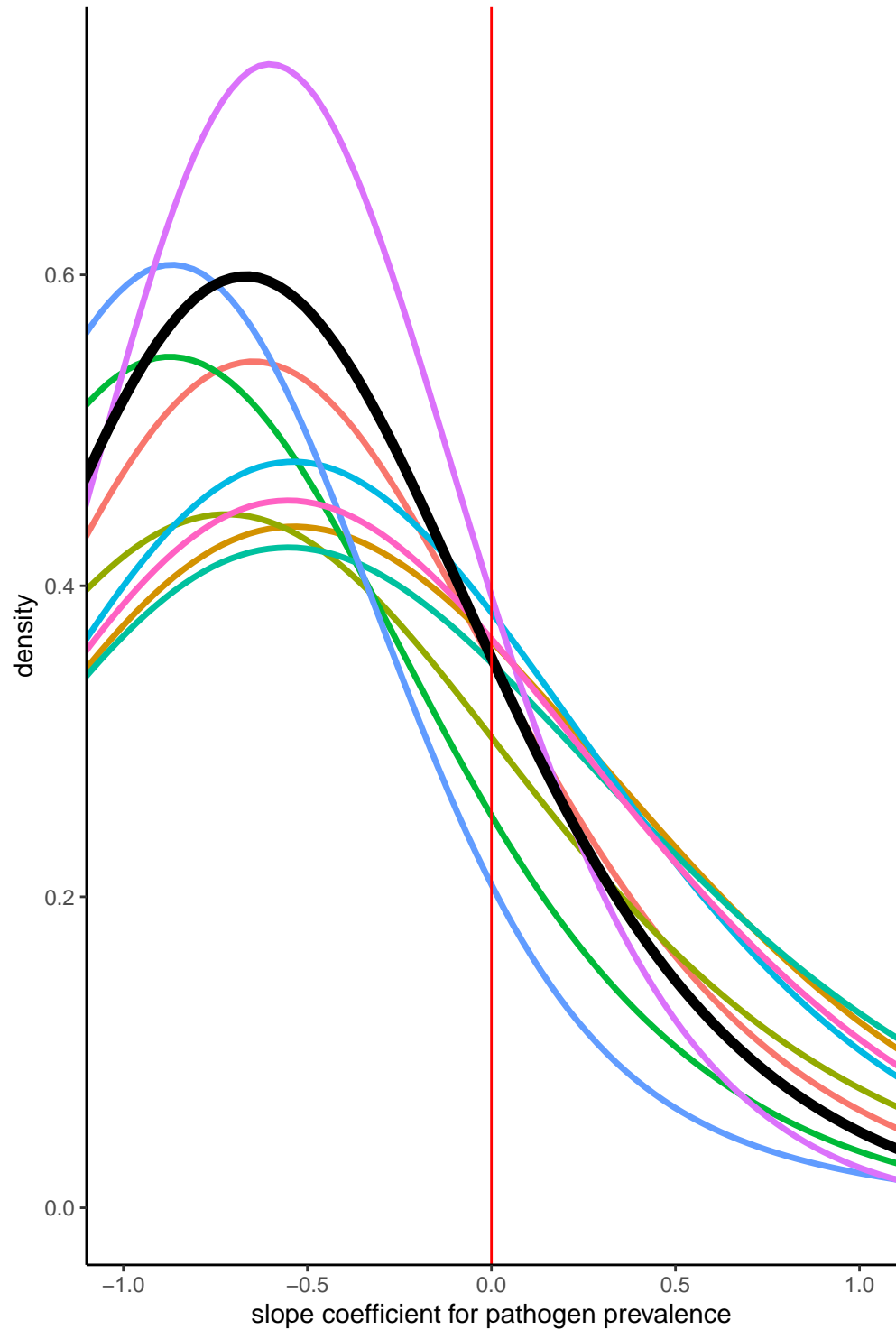
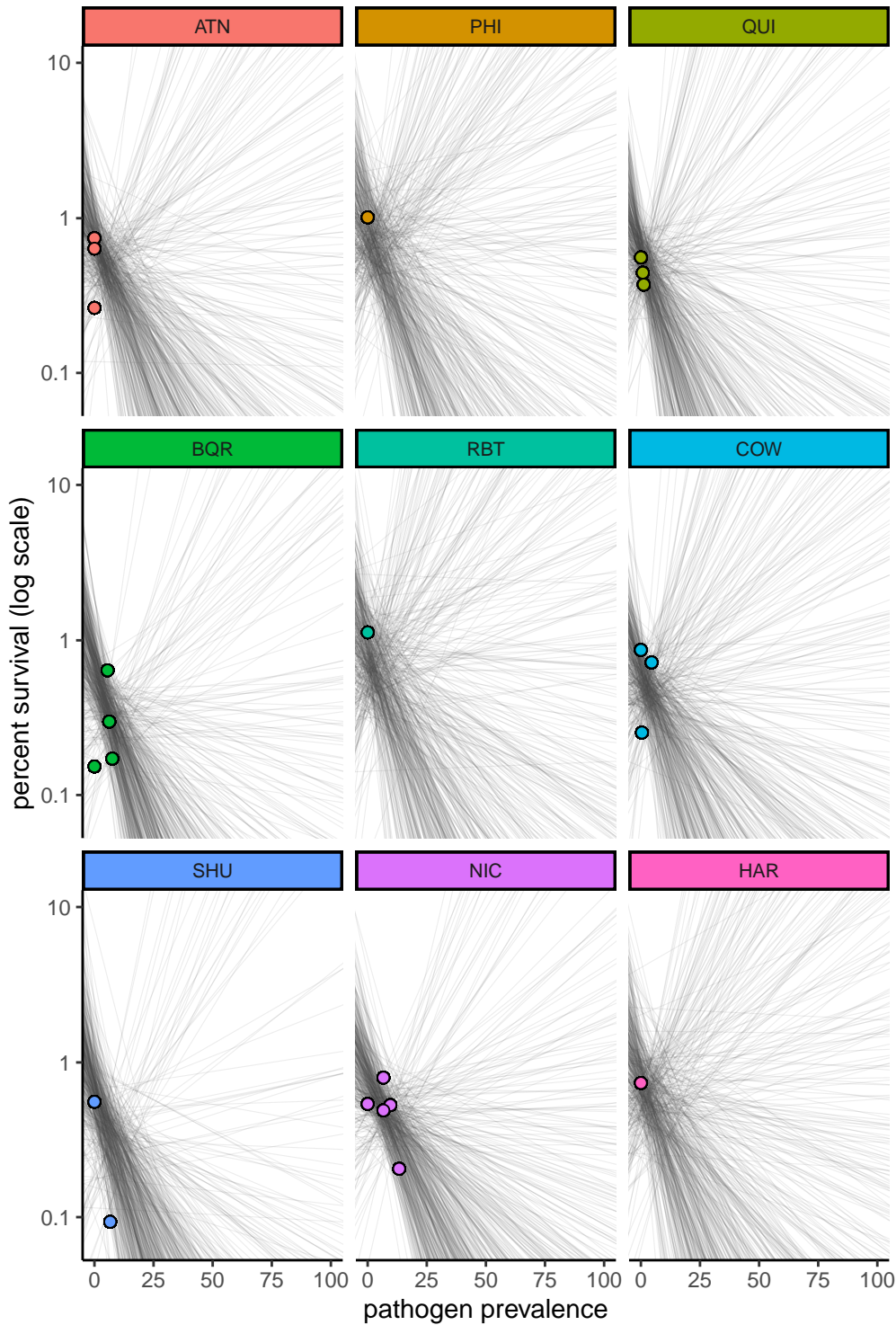
Renibacterium salmoninarum SpSu



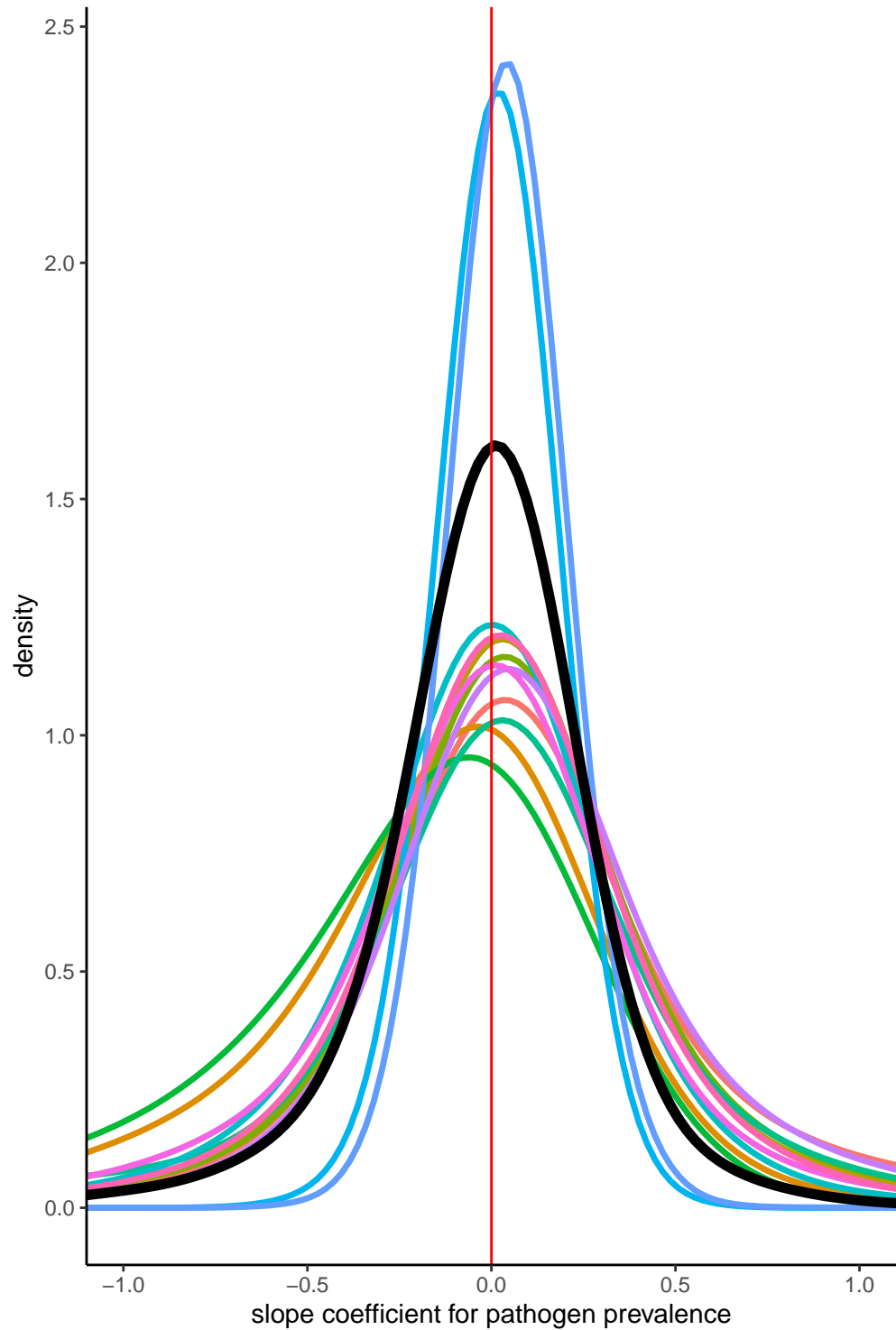
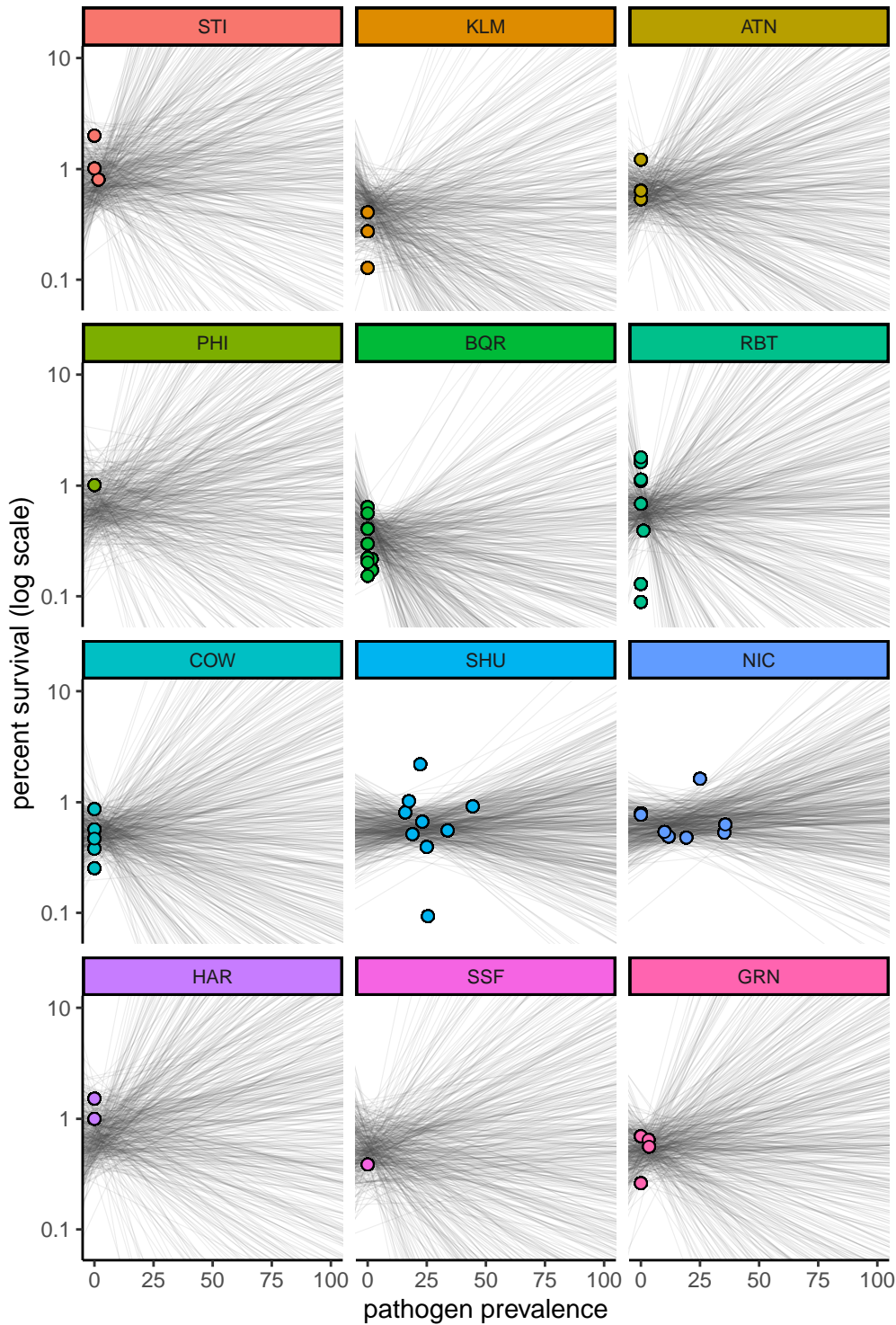
Renibacterium salmoninarum FaWi



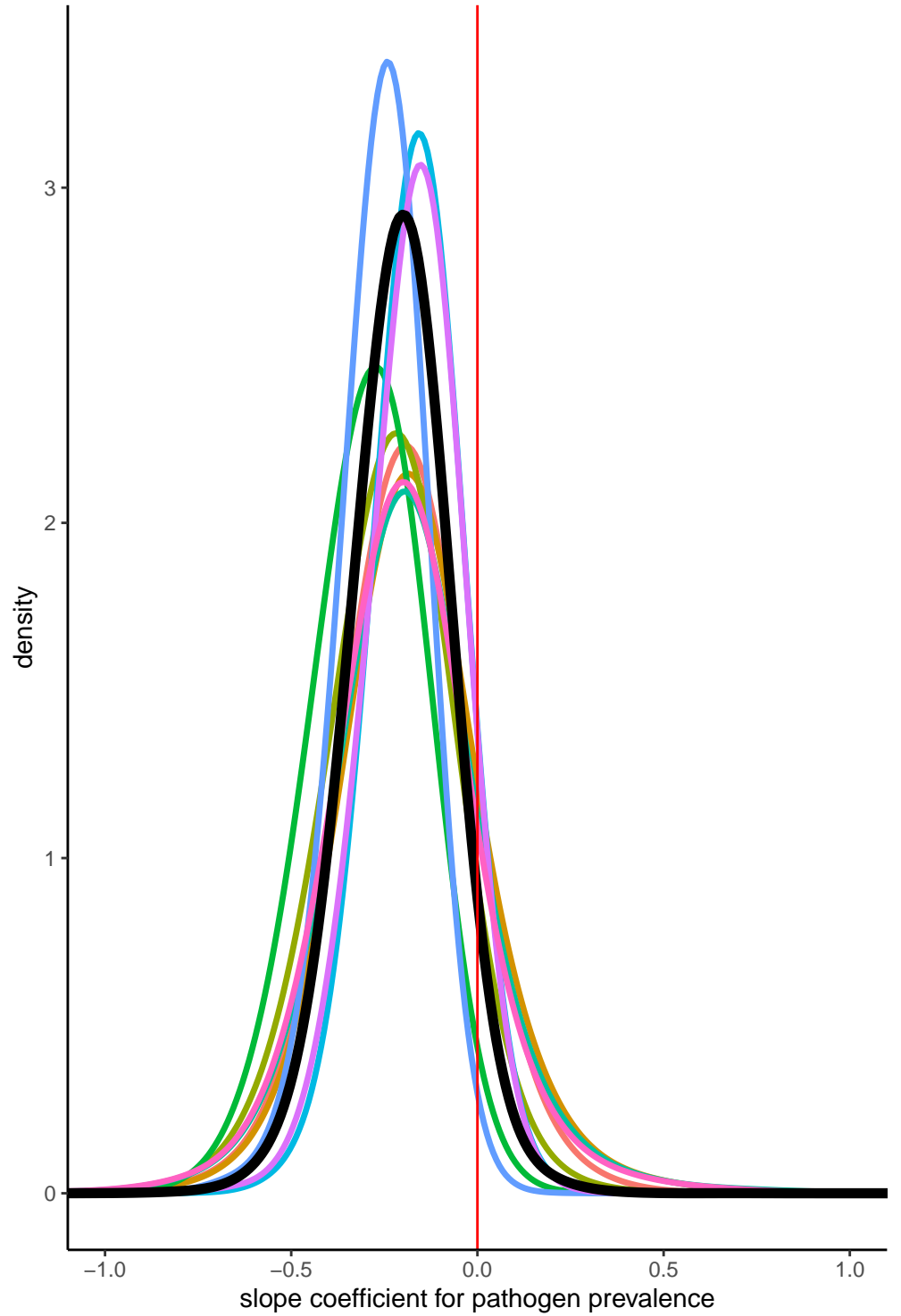
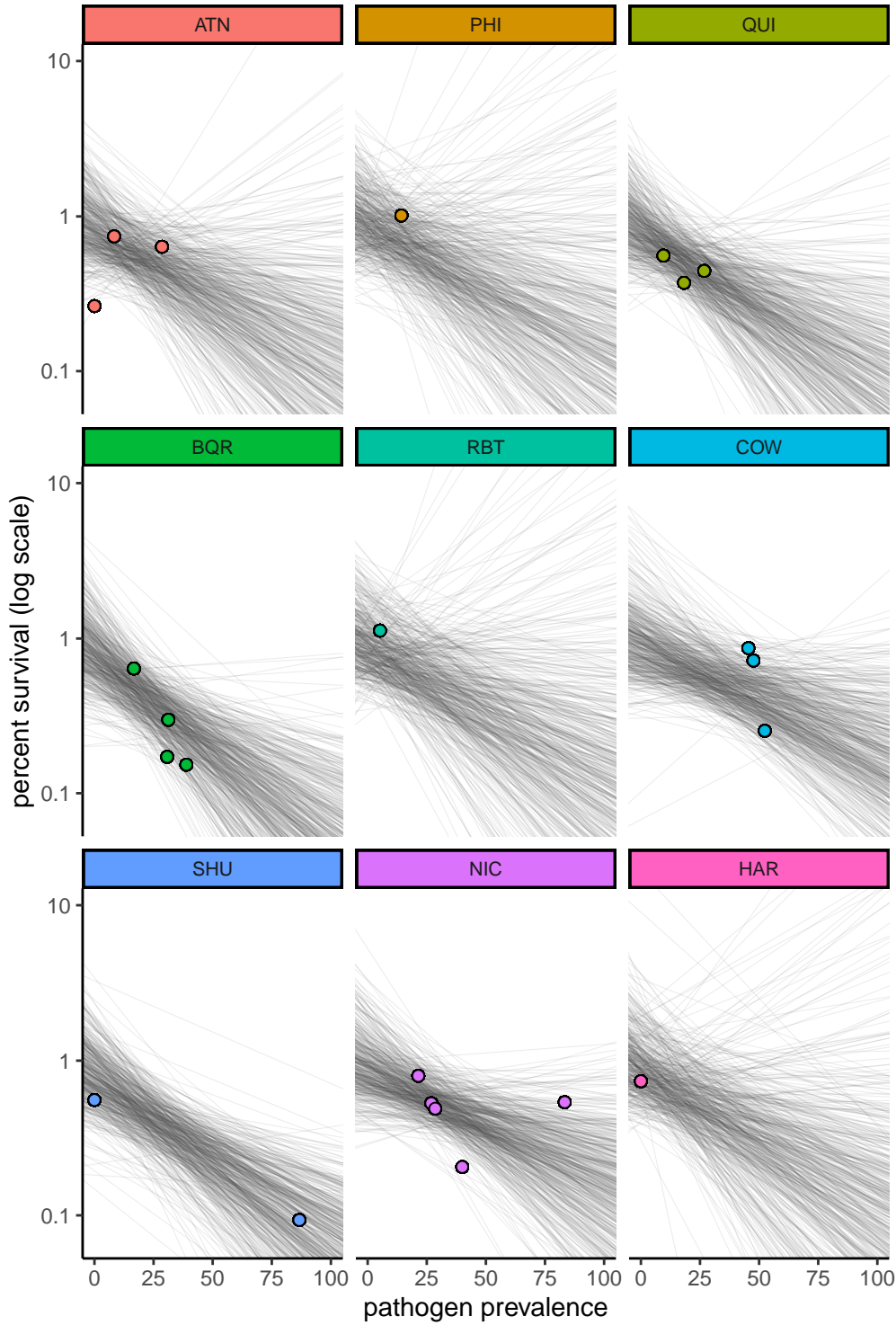
Rickettsia-like Organism SpSu



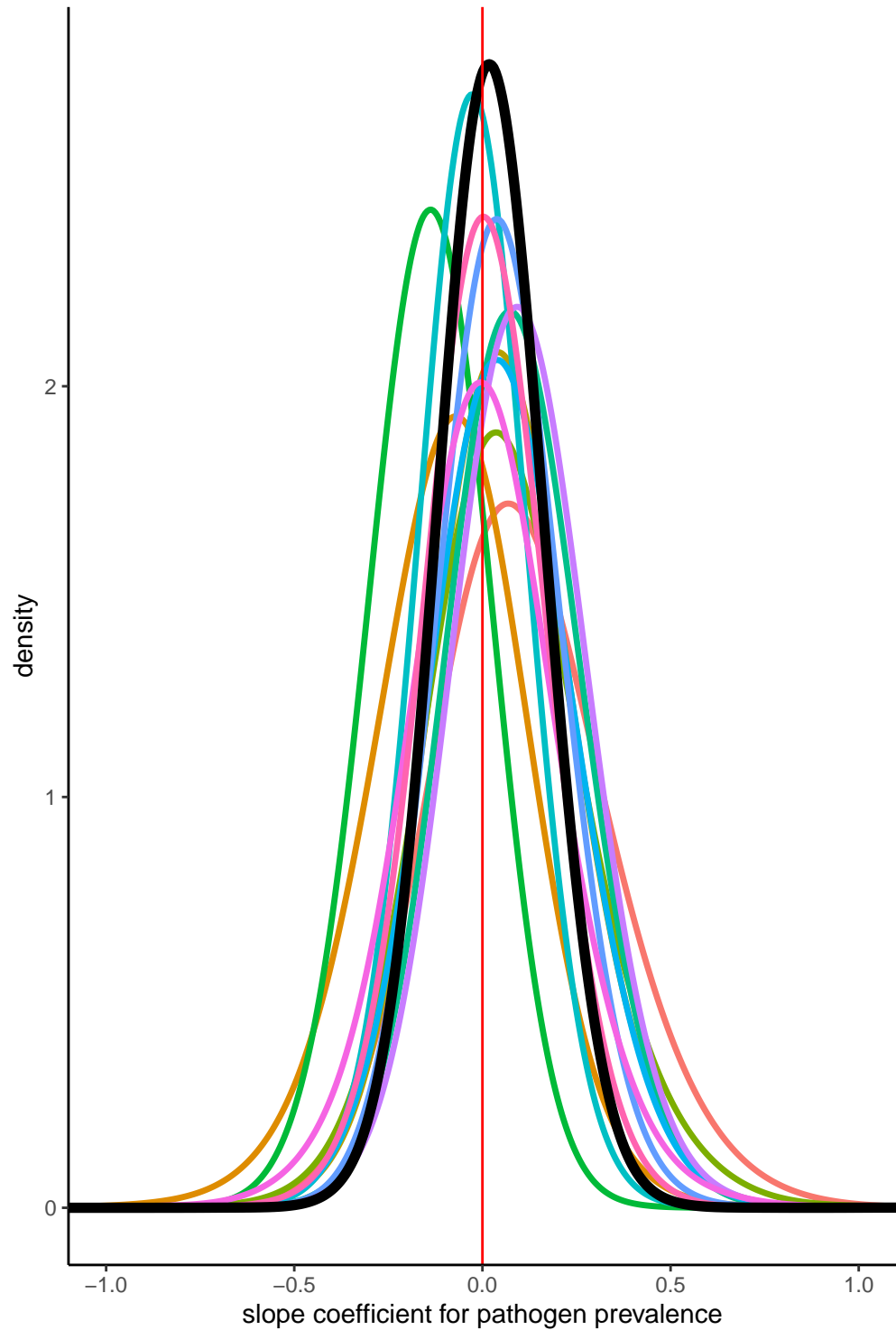
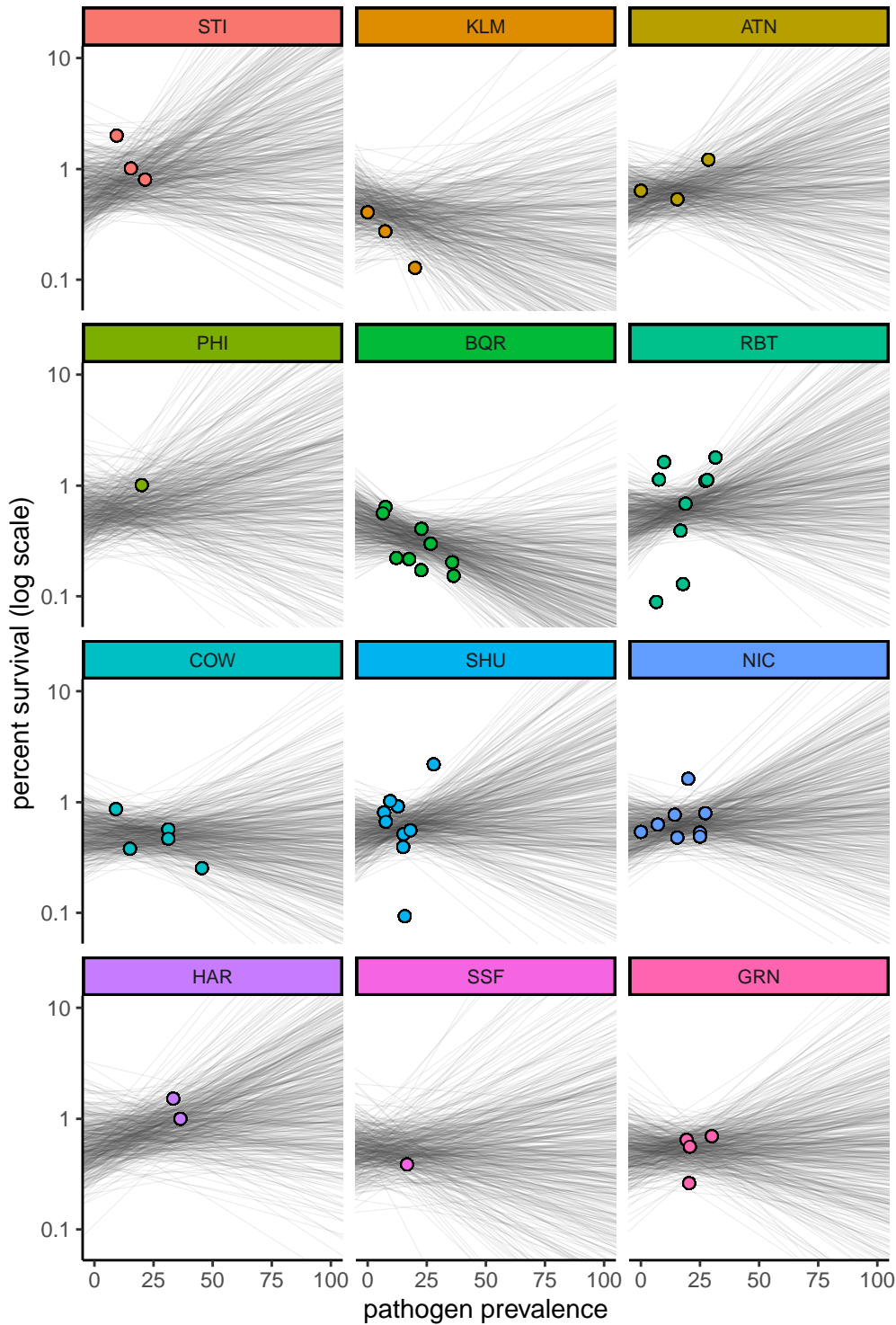
Rickettsia-like Organism FaWi



Candidatus Syngnamydia salmonis SpSu

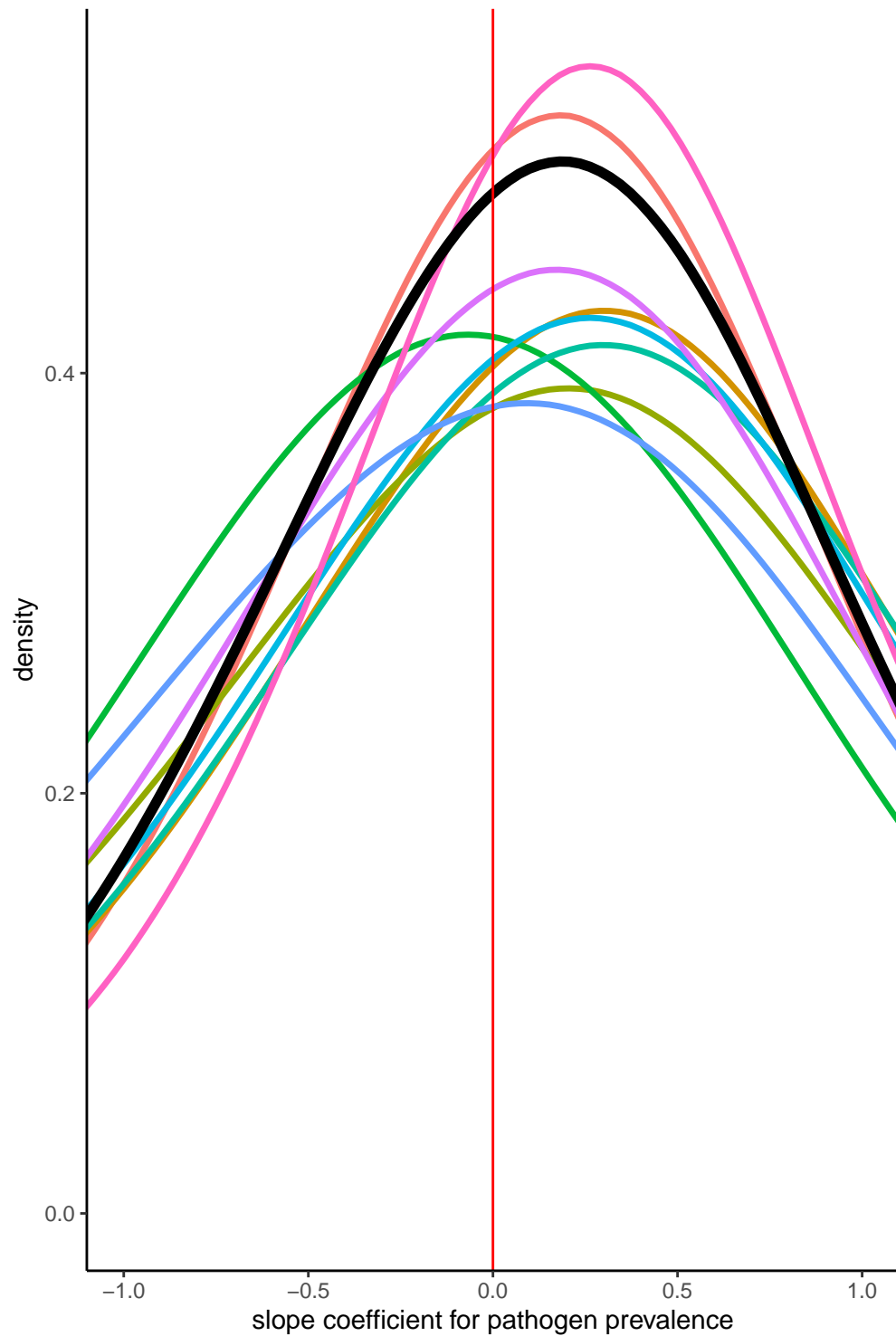
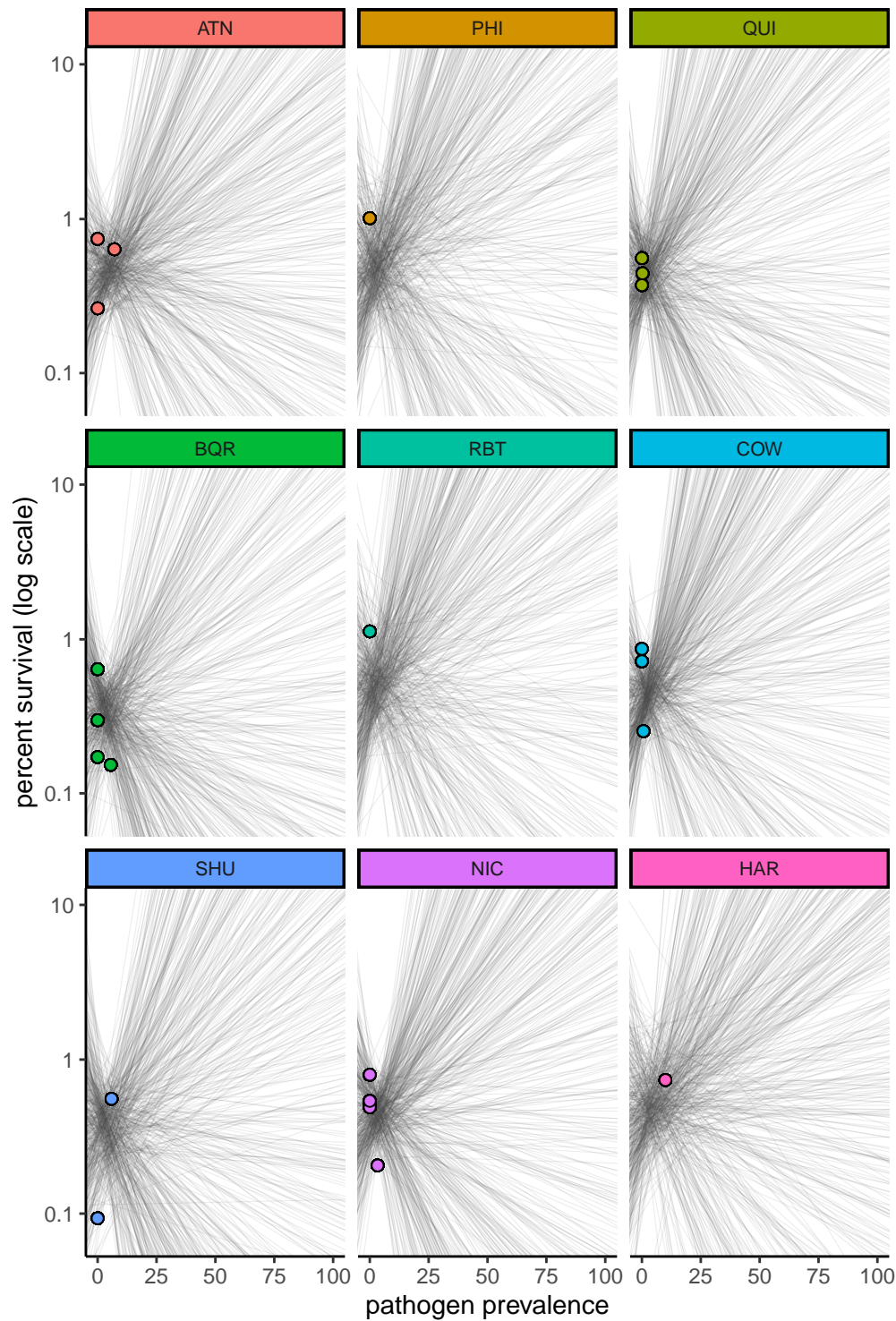


Candidatus *Syngnamydia salmonis* FaWi

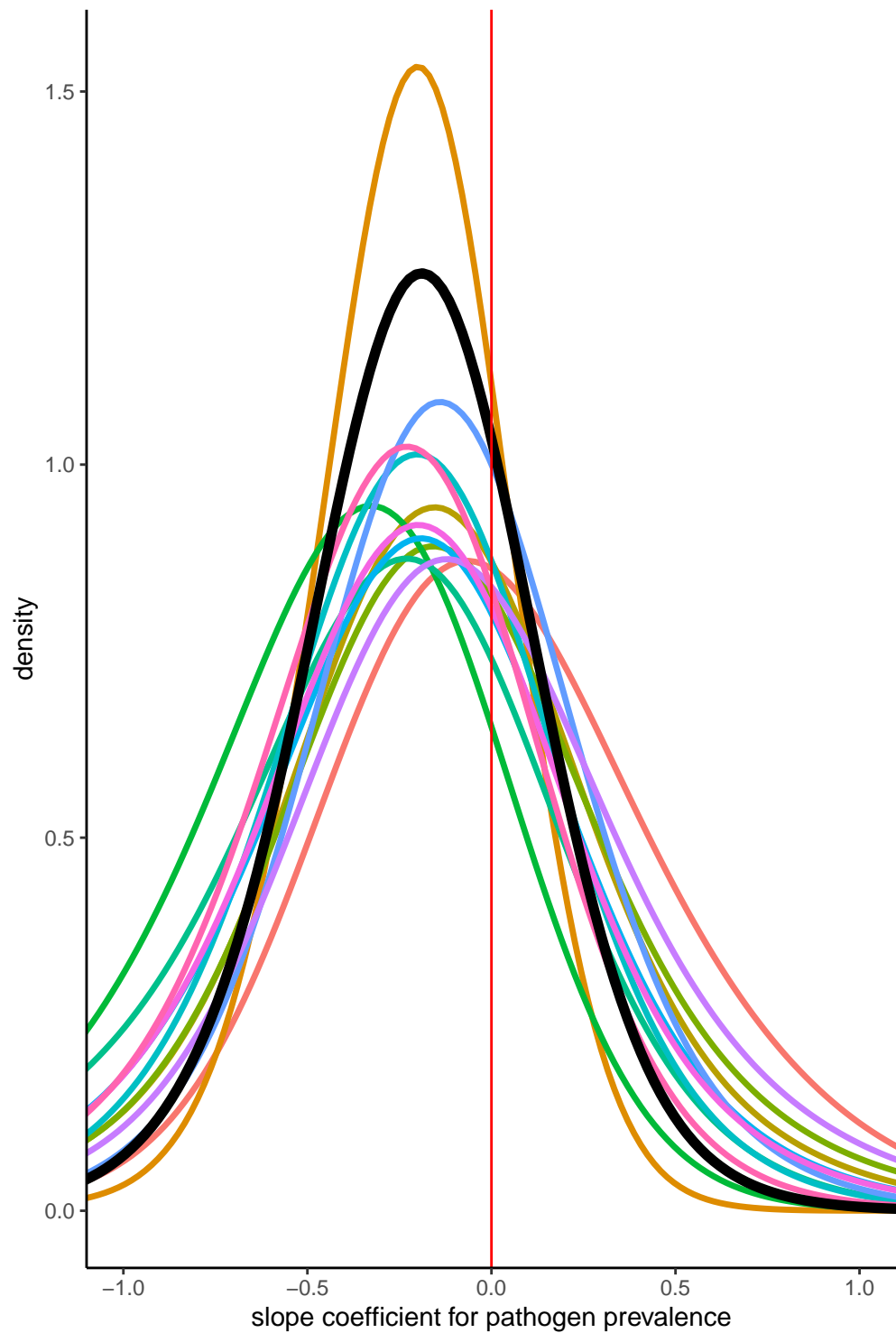
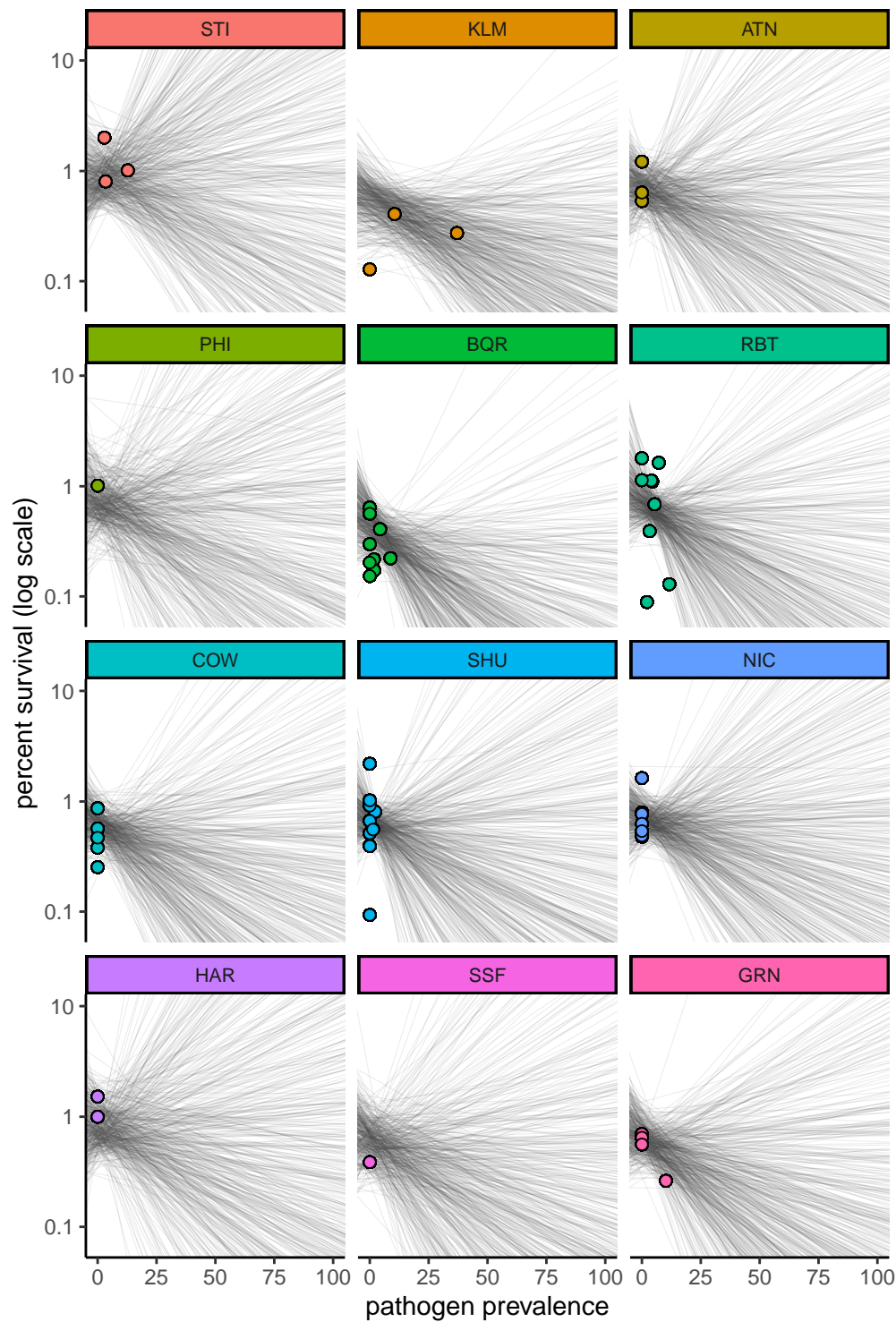




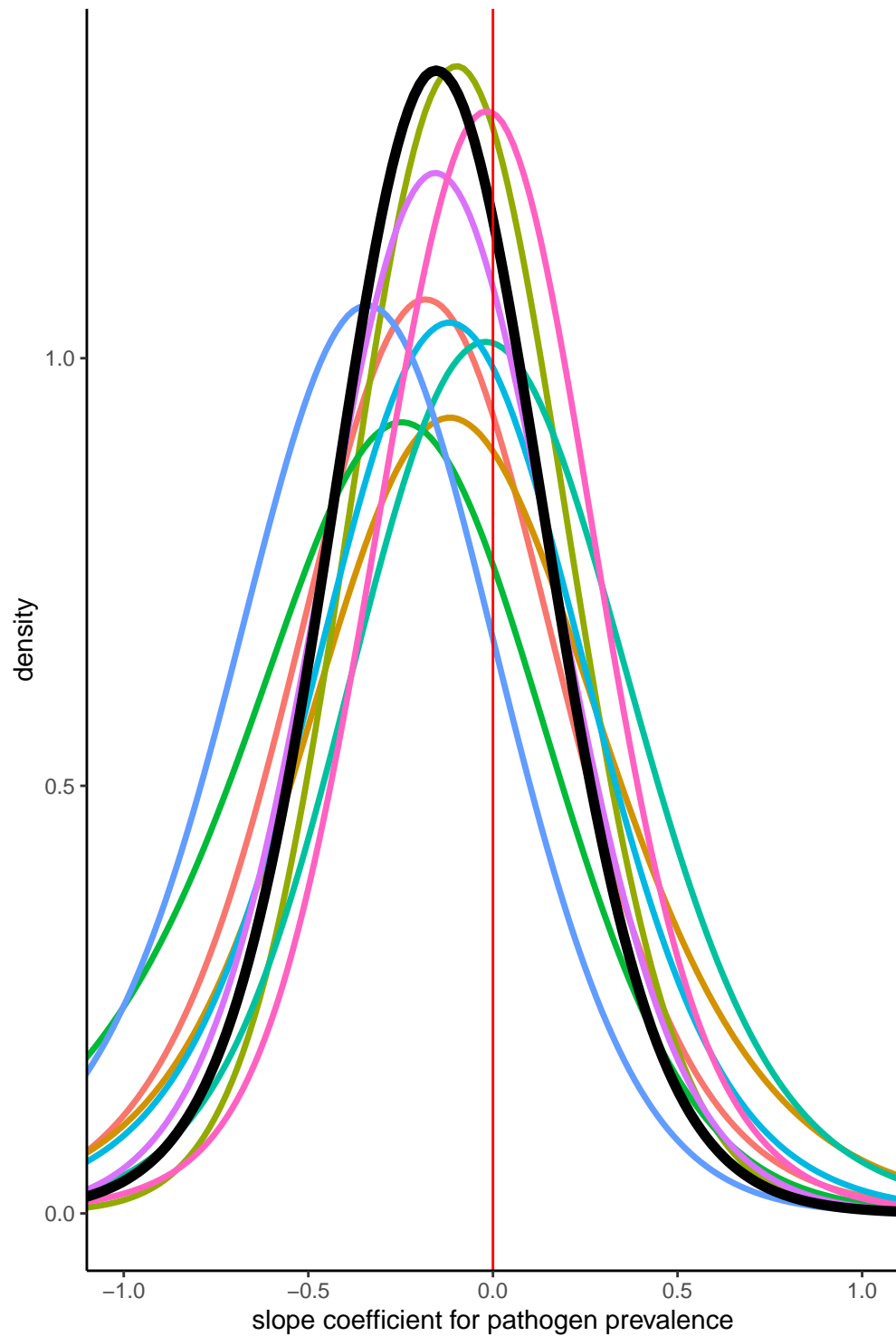
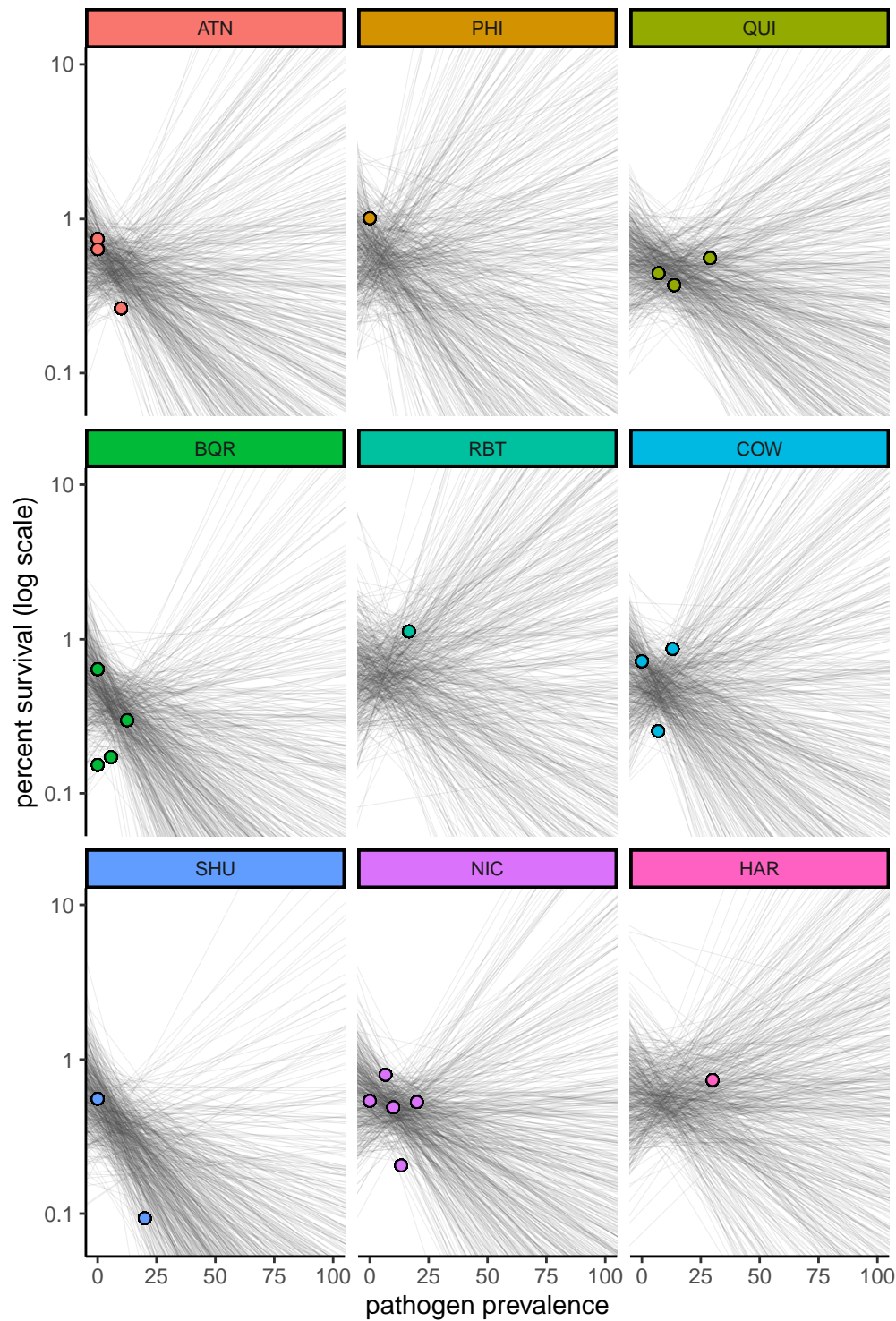
*Sphaerothecum destruens* SpSu



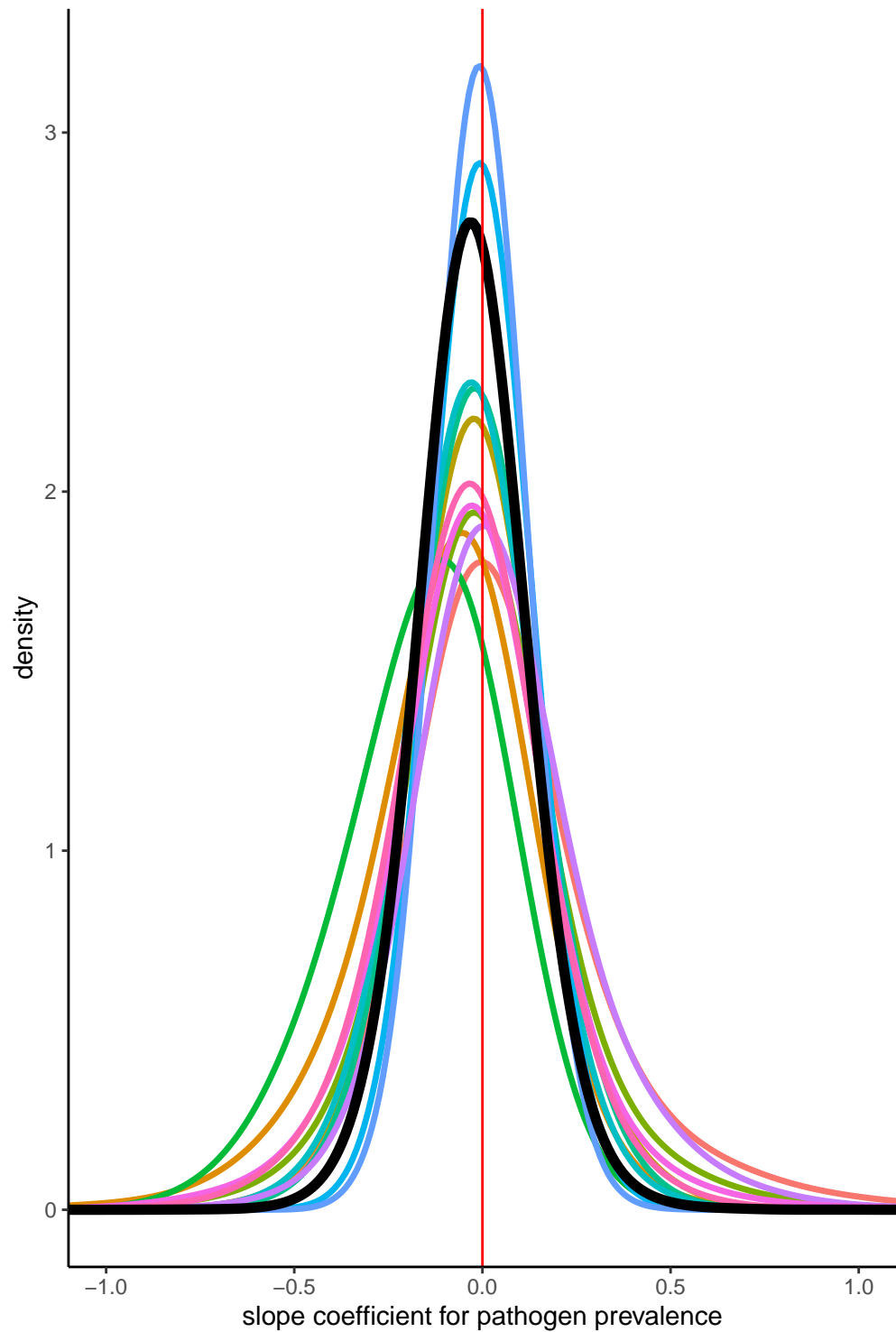
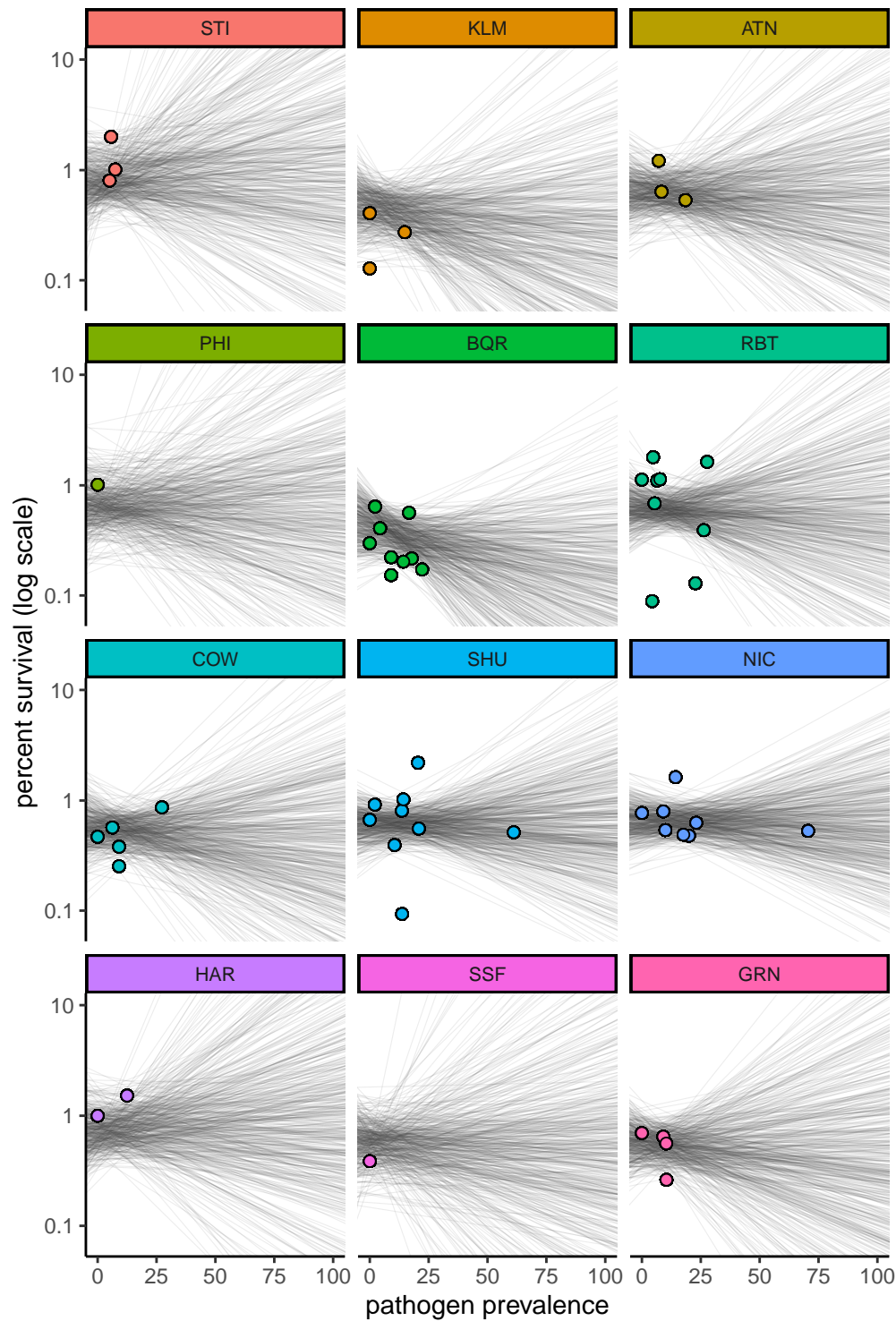
*Sphaerothecum destruens* FaWi



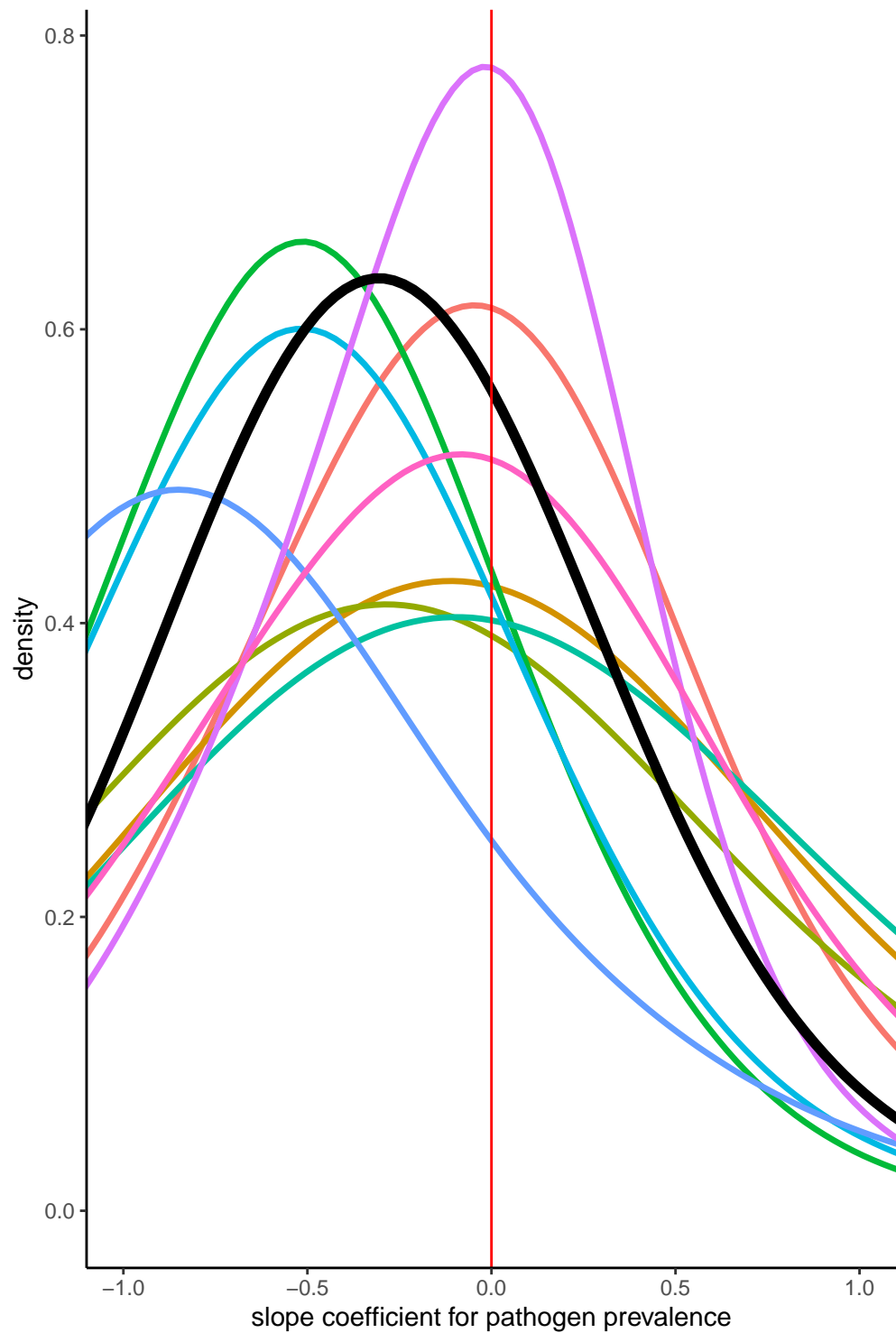
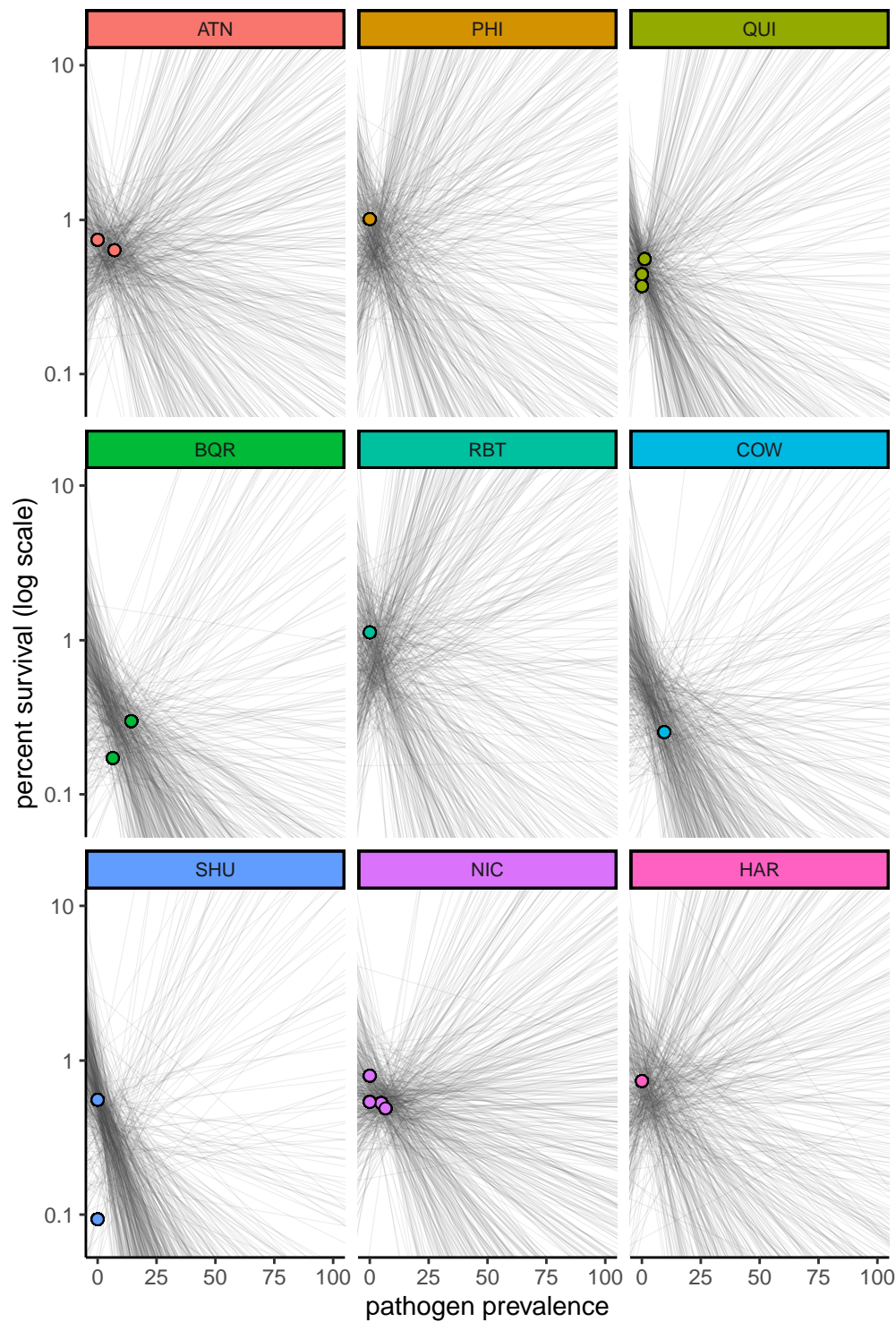
*Tetracapsuloides bryosalmonae* SpSu



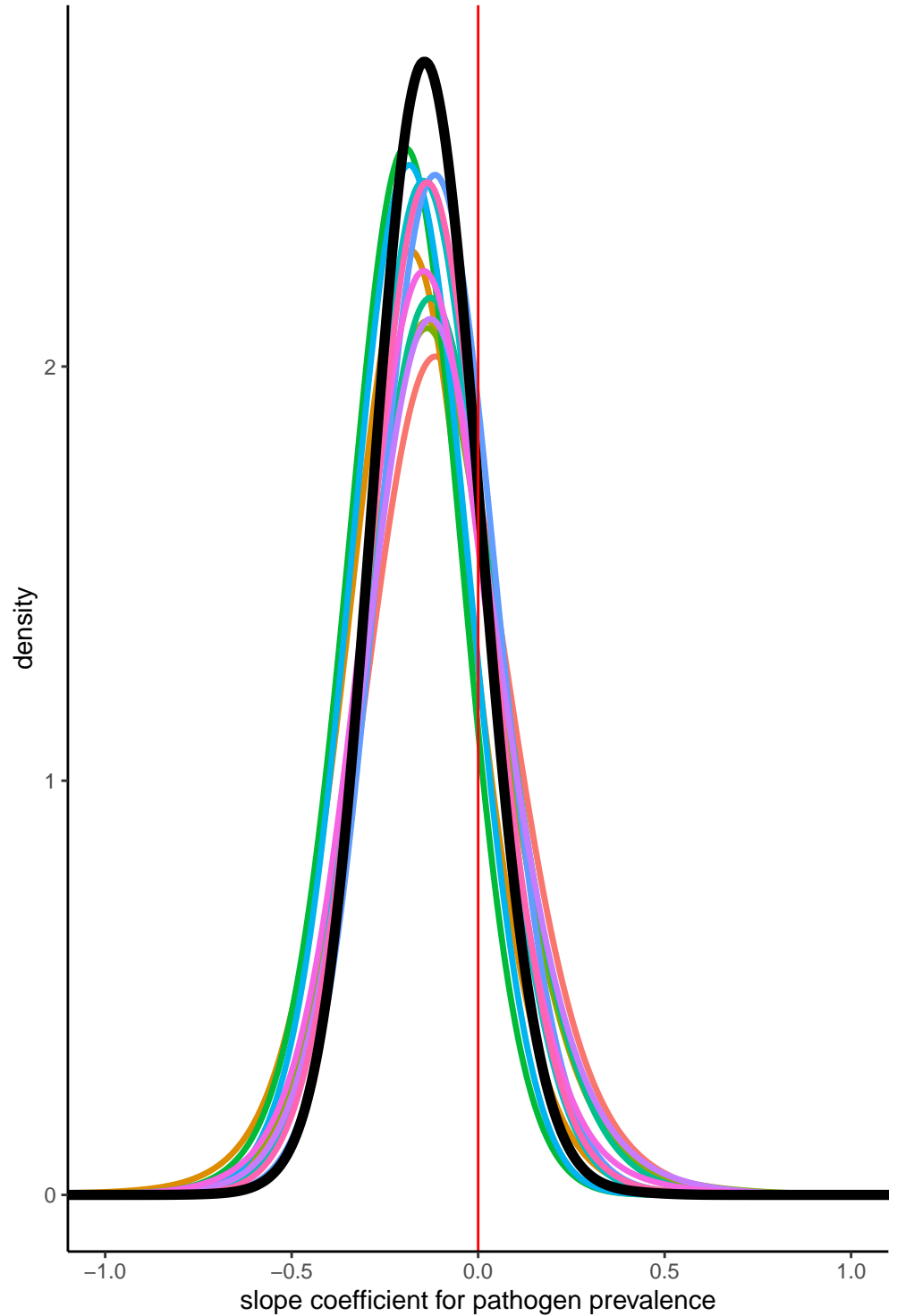
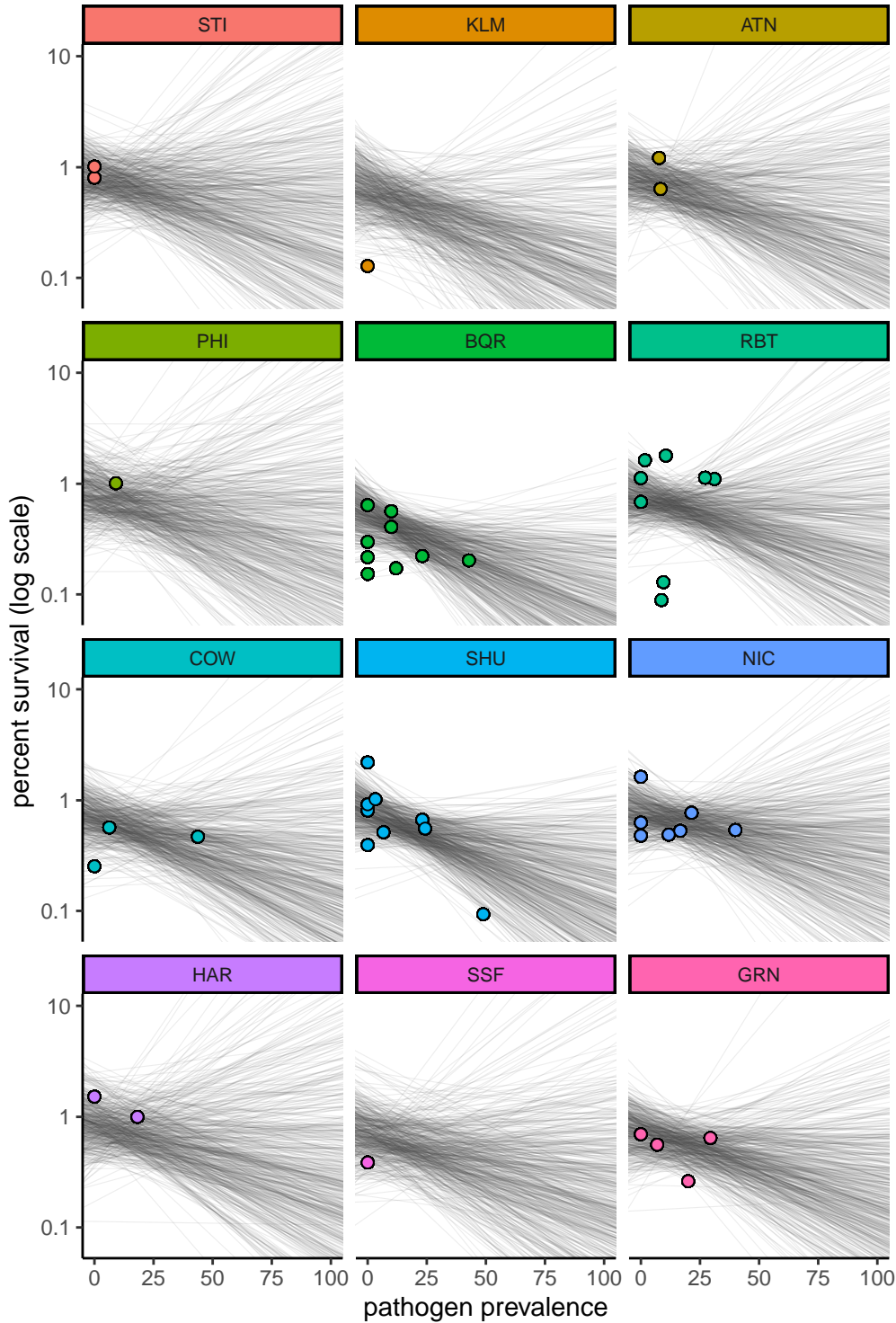
Tetracapsuloides bryosalmonae FaWi



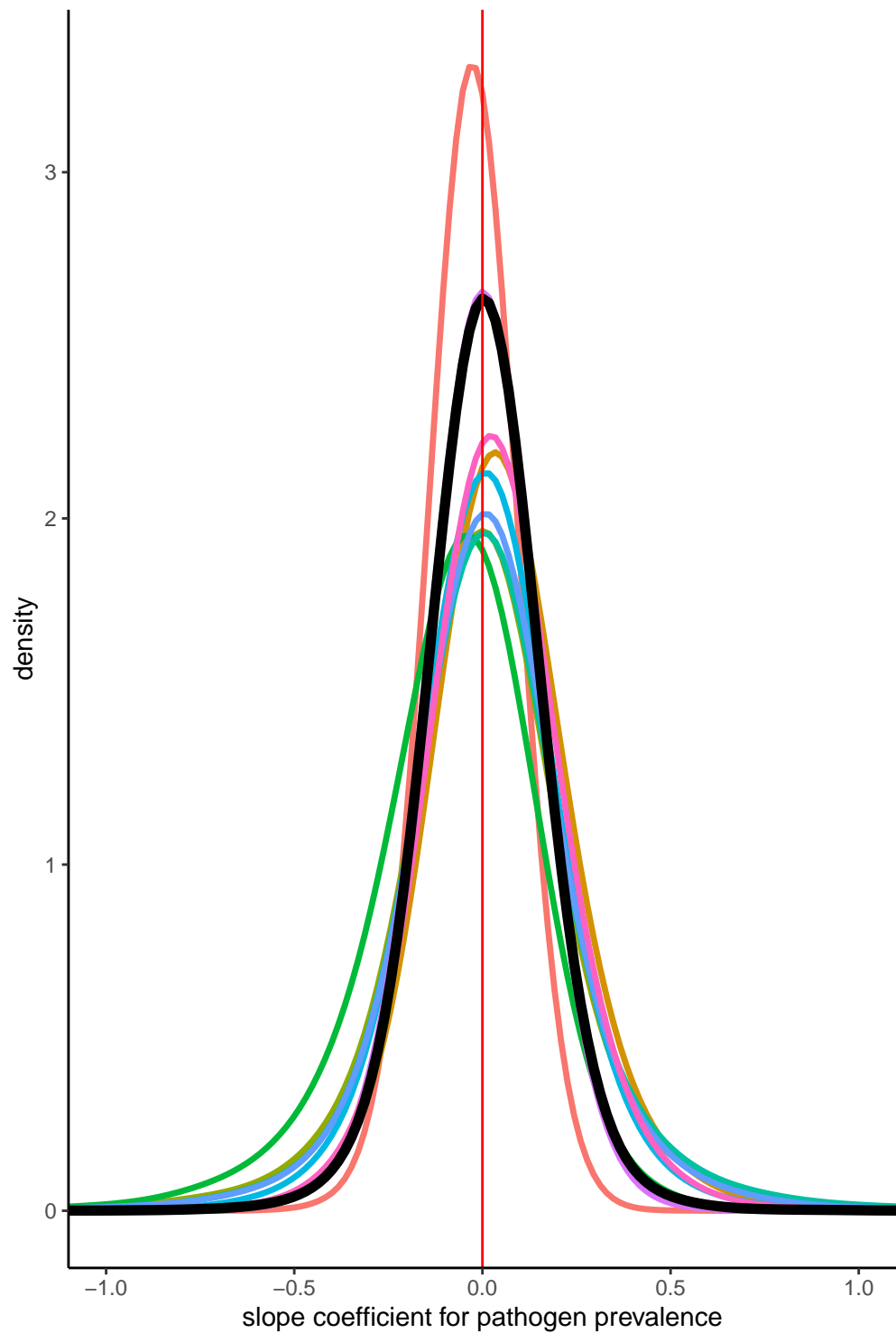
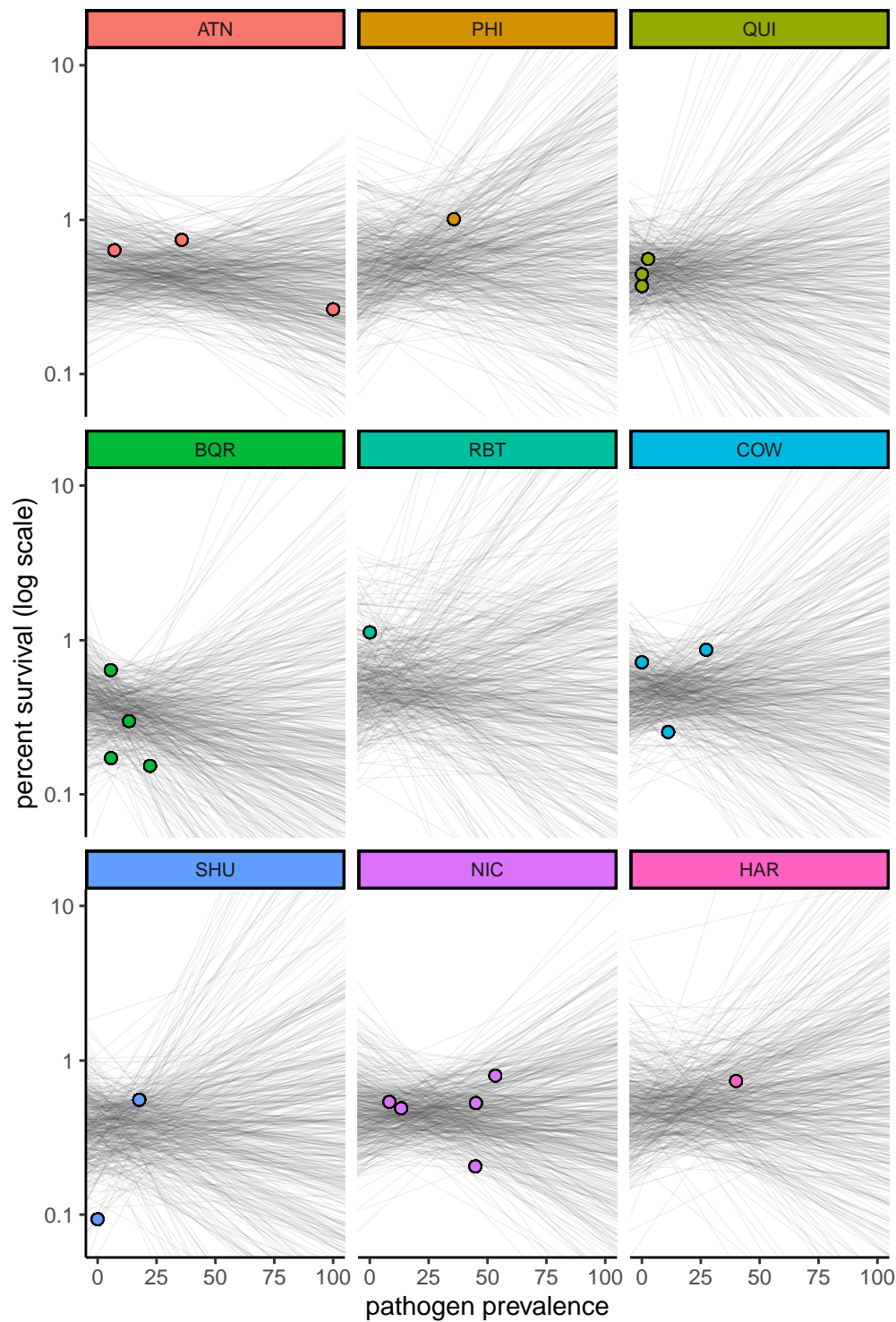
Tenacibaculum maritimum SpSu



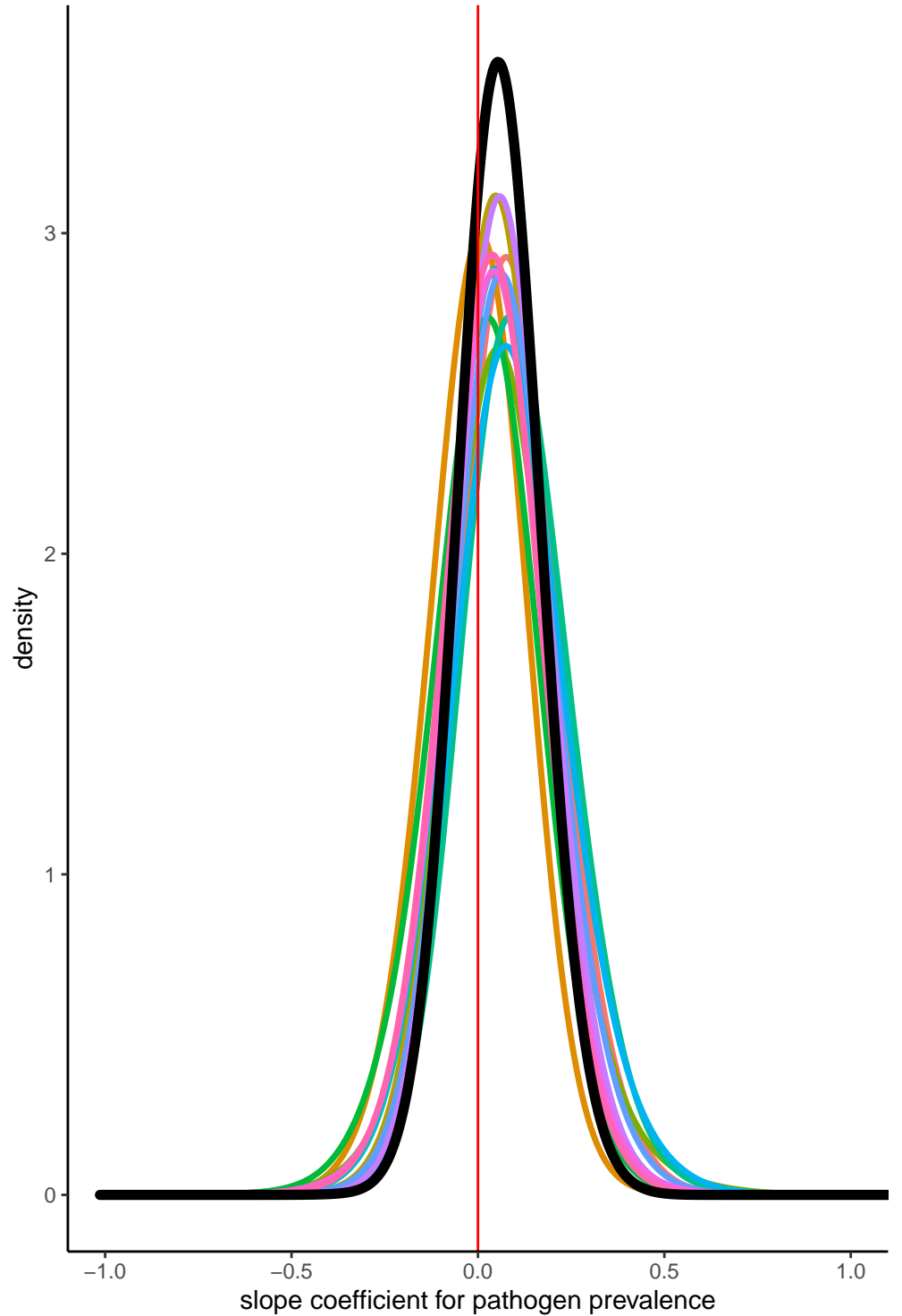
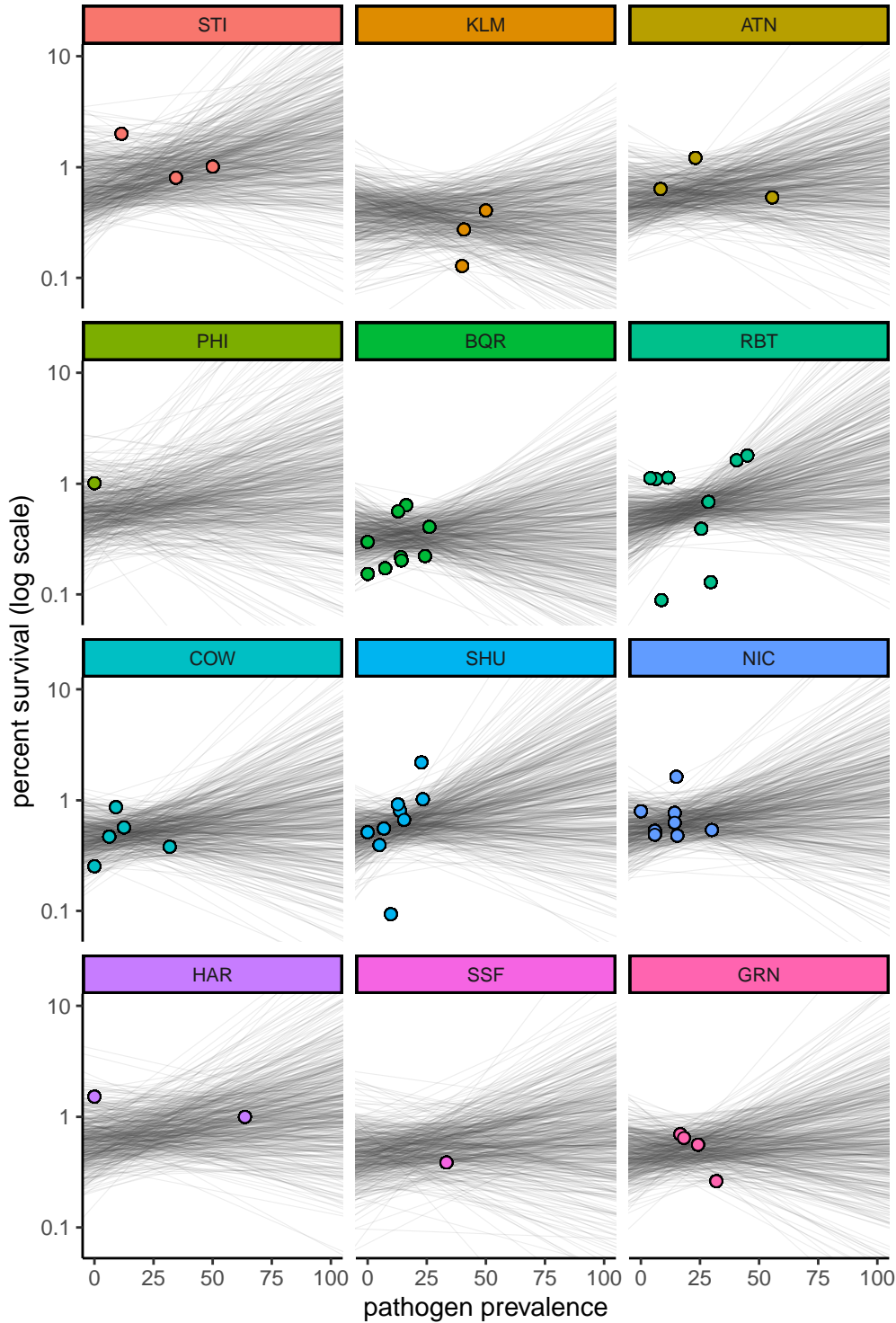
Tenacibaculum maritimum FaWi



# Erythrocytic Necrosis Virus SpSu

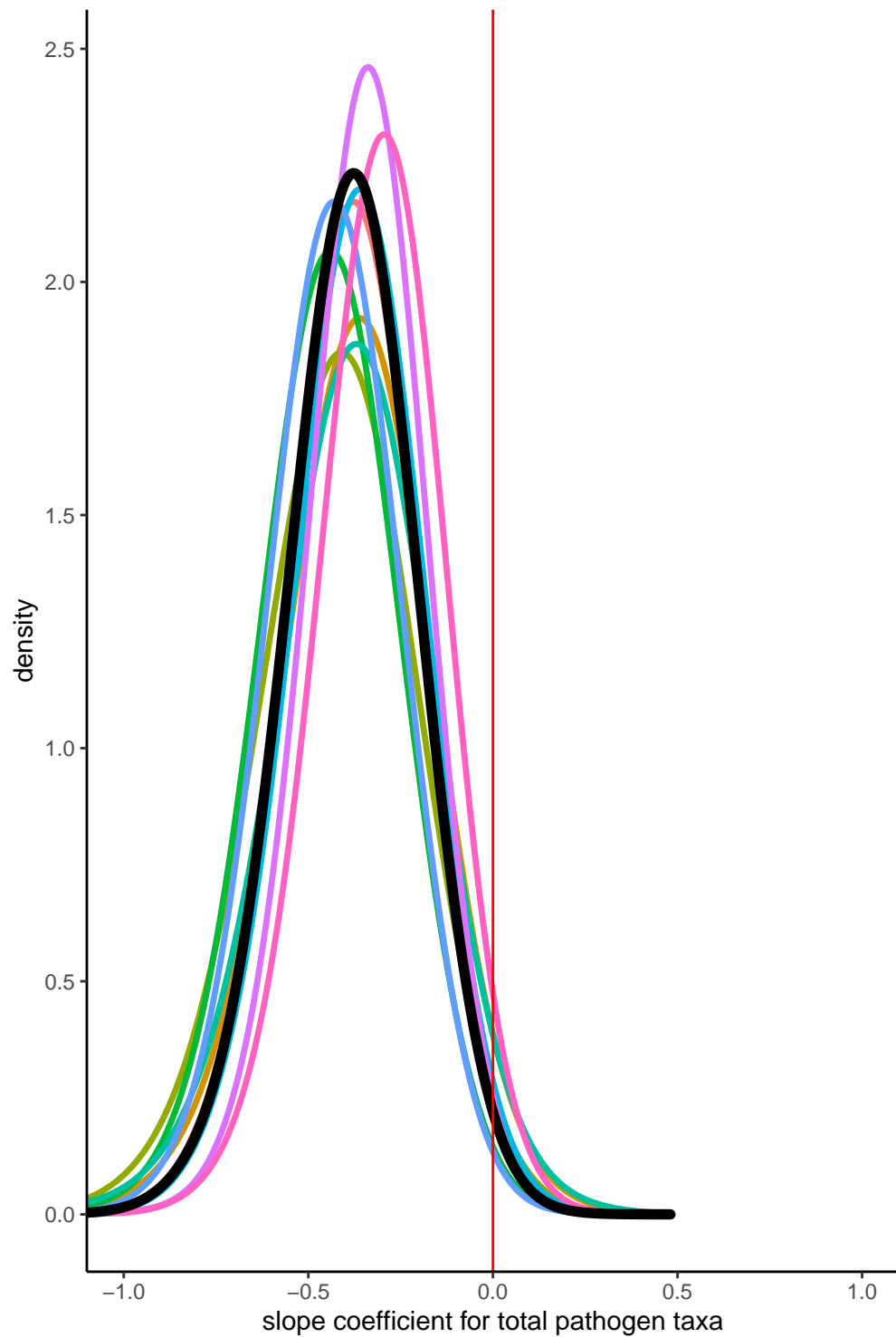
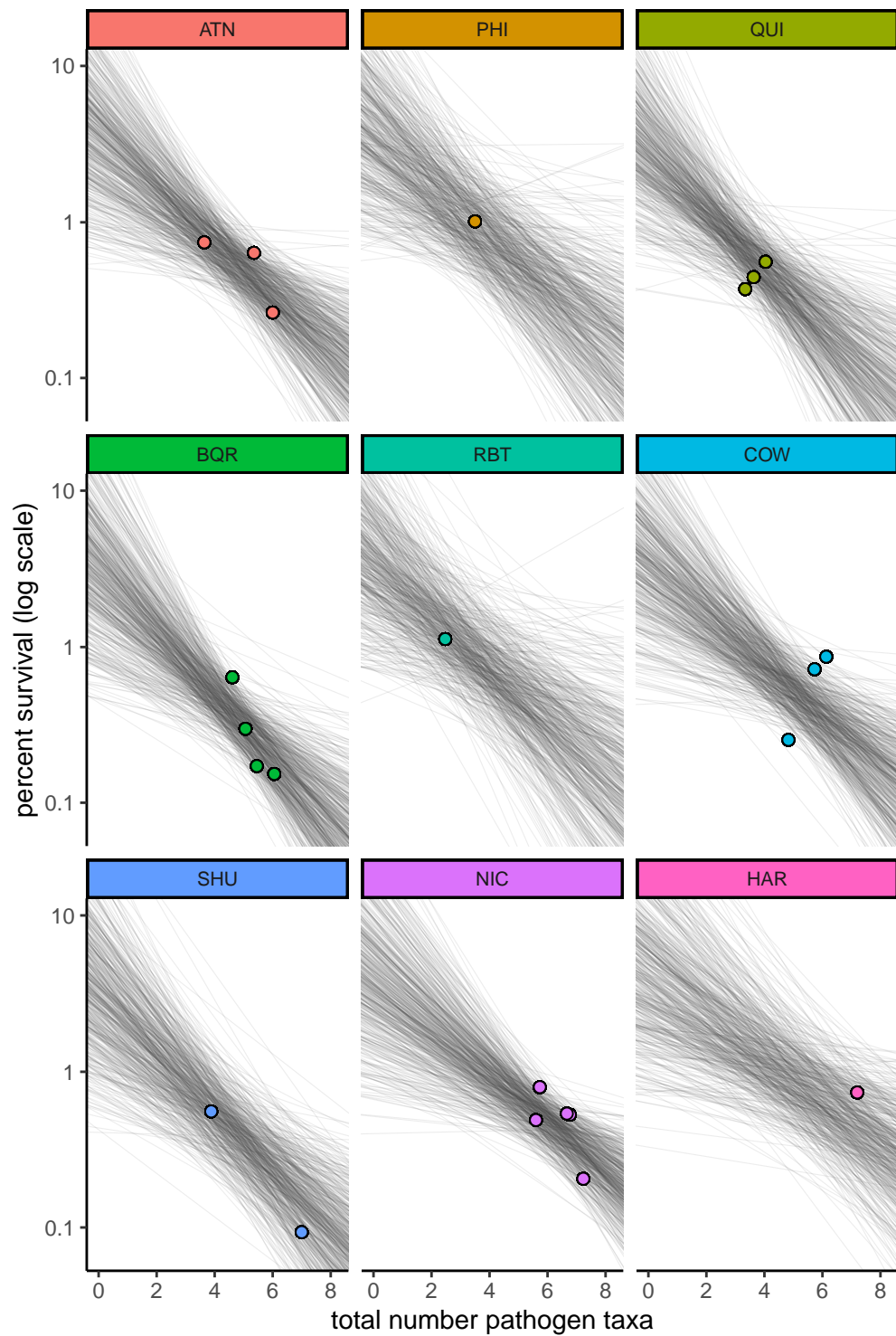


# Erythrocytic Necrosis Virus FaWi

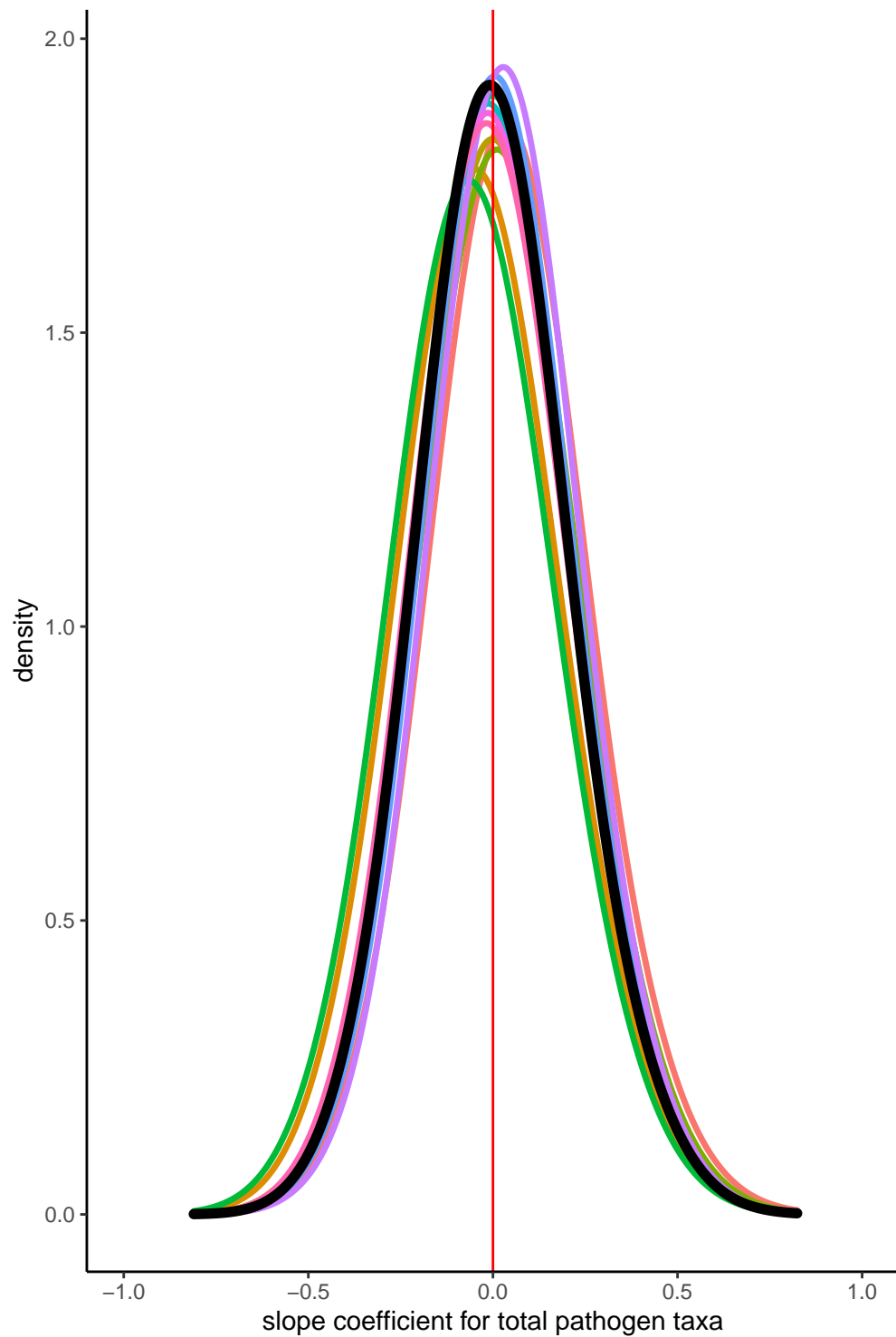
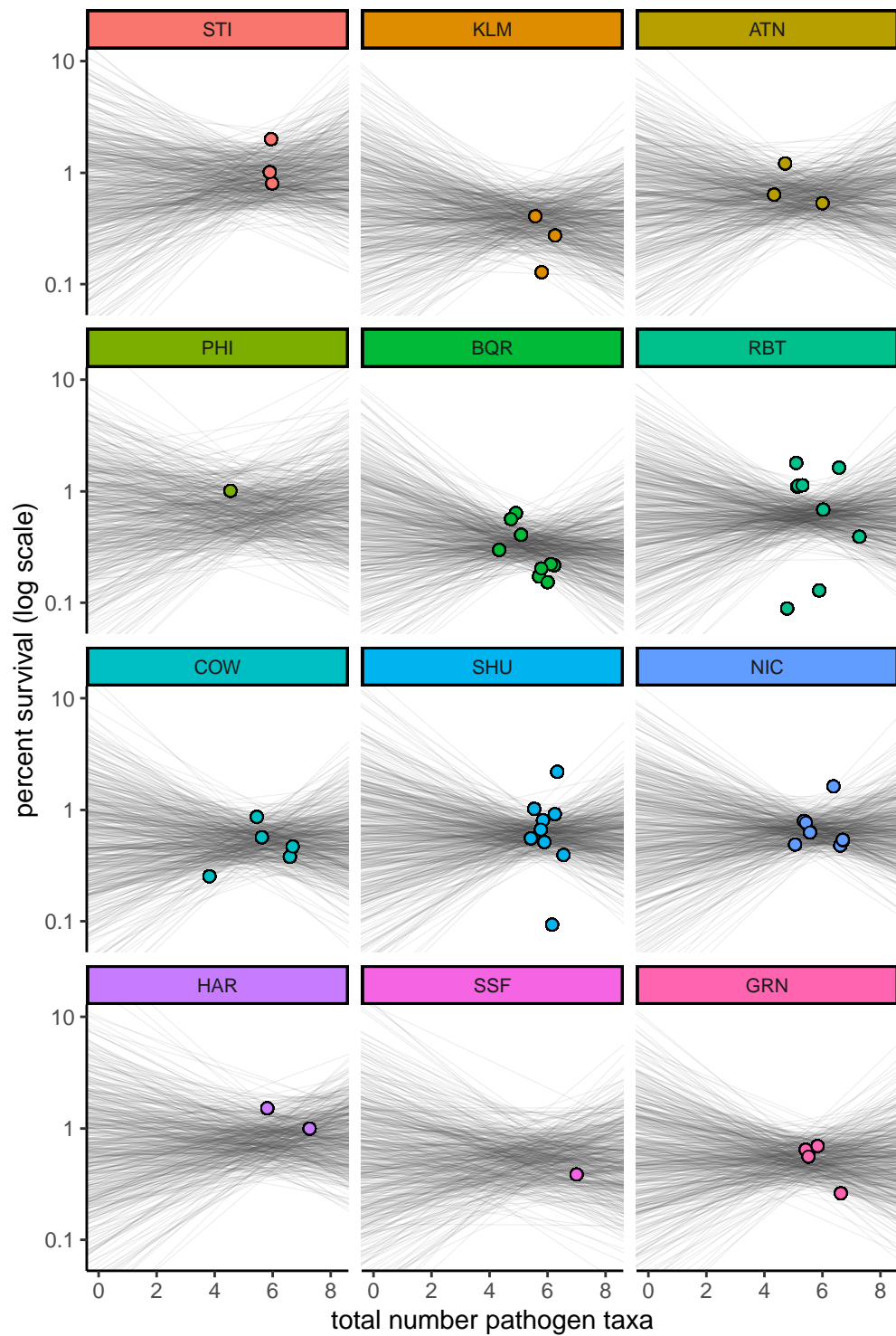




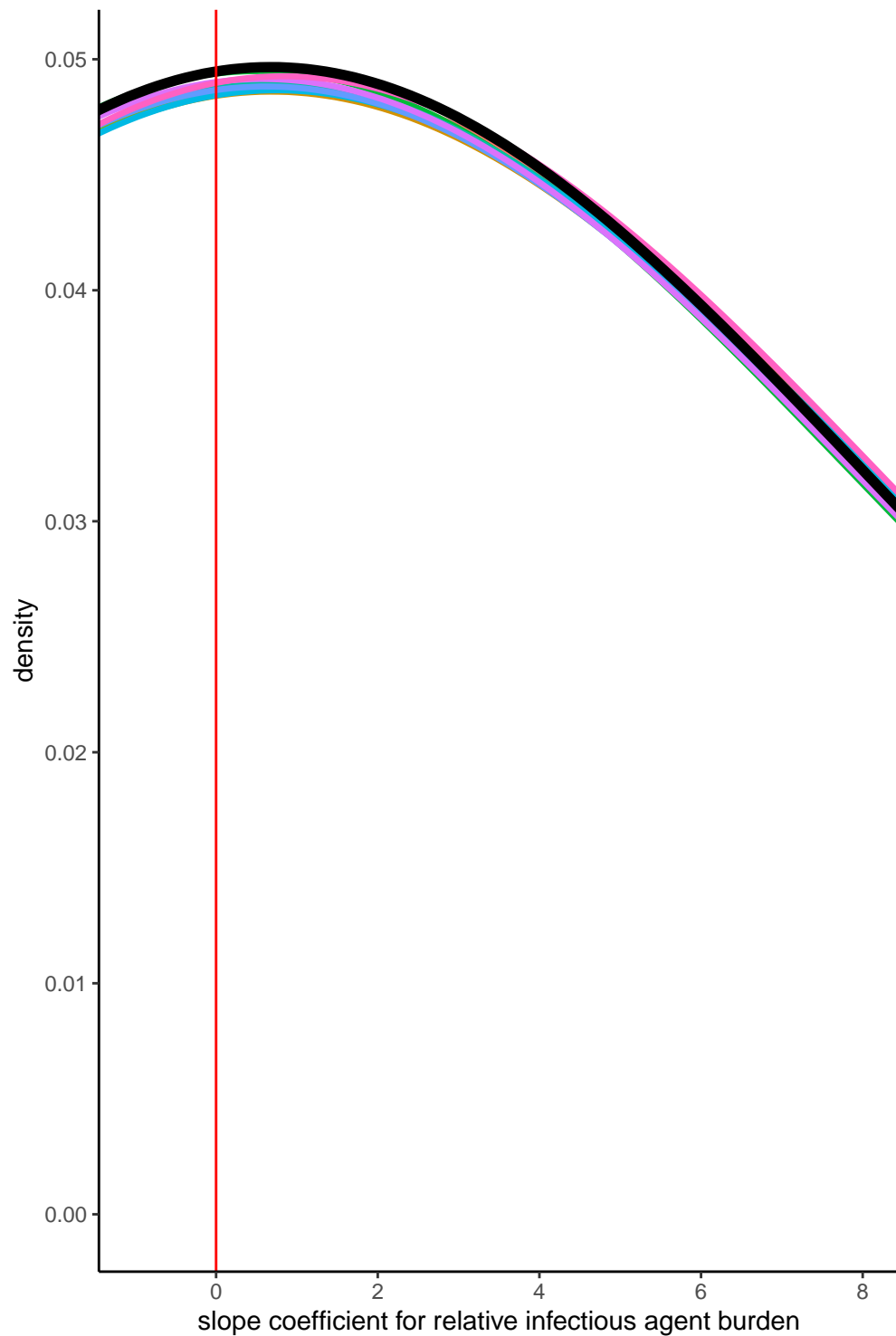
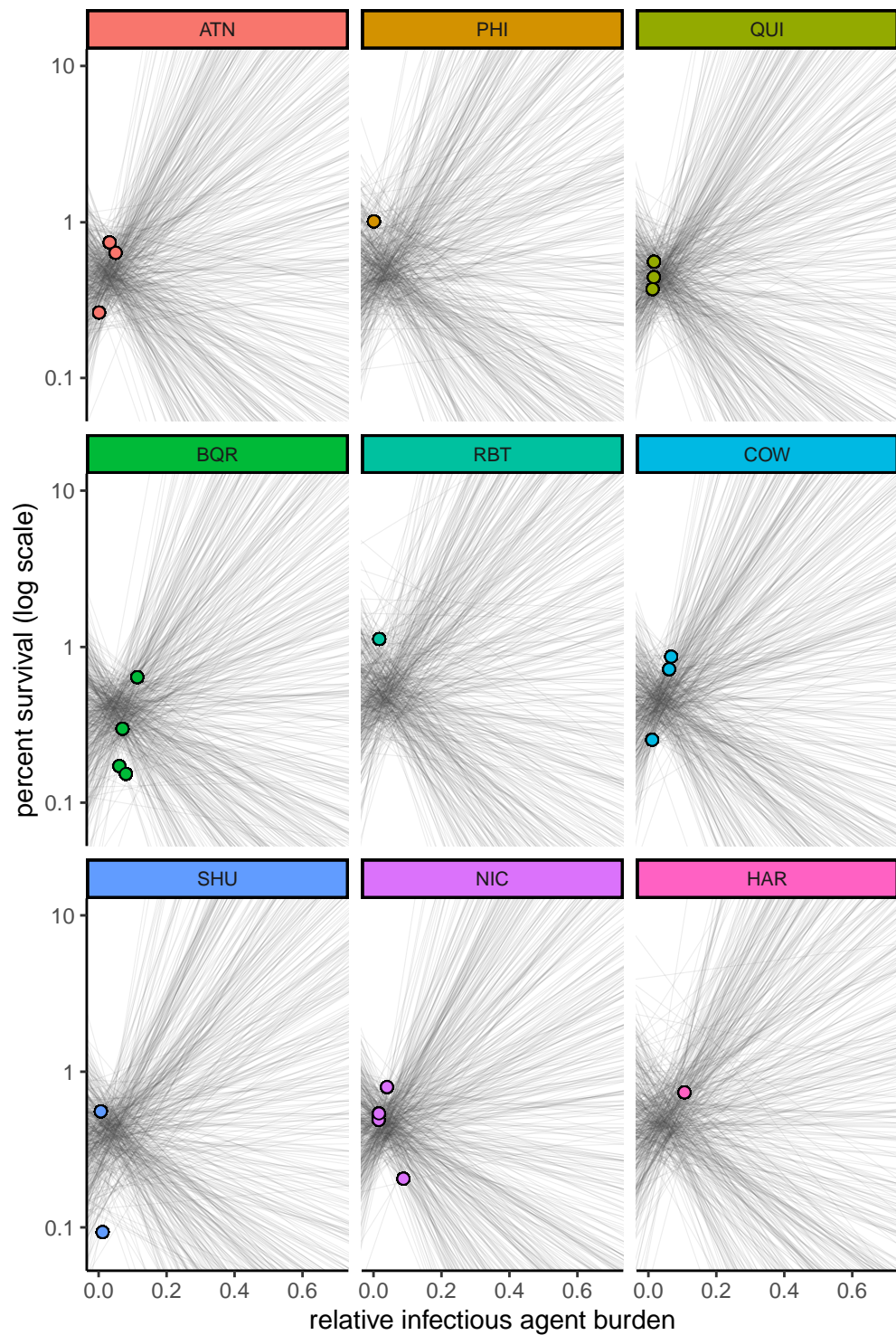
Total number of pathogen taxa SpSu



Total number of pathogen taxa FaWi



Relative infectious agent burden SpSu



Relative infectious agent burden FaWi

