

Conclusions

Engineered biosensors for improved prion detection

Joel Watts

- A natural segment within the prion protein from the bank vole helps to prevent the protein from turning into a prion
- Swapping this segment with the corresponding segment from mouse, human, or elk prion protein allows the bank vole prion protein to more readily become a prion
- We are currently optimizing this segment within the bank vole prion protein to generate cells with an enhanced ability to replicate prions as well as an RT-QuIC test with improved diagnostic sensitivity