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We have found that neurons expressing the E200K prion mutation have a localization difference in receptors involved in neuronal electrical activity compared to the normal prion protein.

This localization difference changes the electrical network activity of the neurons, creating different patterns of neuronal firing.

The mutation also changes the functionality of the neurons, specifically how they respond to drug stimulation.

We are awaiting a large sequencing analysis to further understand how the E200K prion mutation affects overall neuronal gene expression and its implication in disease.