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Contribution of Plasma Membrane Calcium ATPases to neuronal maladaptive responses: focus on spinal nociceptive mechanisms and neurodegeneration

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Highlights

- PMCA2 is critical for the function and survival of spinal cord neurons.
- Motor neurons are the most vulnerable population to a decrease in PMCA2 expression.
- PMCA2 plays a role in pain in a female-specific and modality-dependent manner.
- Molecular networks governing pain are altered in the dorsal horn of PMCA2^{+/-} mice.
- The molecular changes in the dorsal horn show sex bias.

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