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Focusing on Fundamentals

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Focusing on Fundamentals

Emilie Potts

When assessing and diagnosing a traumatic brain injury (TBI), many internal and external factors need to be considered. However, most internal factors are ignored by current testing methods (physical and computational models), as their sex-based models are only derived from male data, leading to a significant underrepresentation of females in TBI studies. Additionally, an individual's chromosomal makeup can alter the severity of biological repercussions following an impact, potentially leading to long-term effects such as Alzheimer's and Parkinson's disease. Through my research, I aim to contribute to the advancement of TBI research by enhancing our understanding of its fundamentals. As it is crucial to revisit the basics and gain a deeper comprehension of the sex-based differences as this can have a ripple effect with lasting consequences.