

Motor Control Science Club, November 29, 2022, 11:00 AM CET

The lecture is open to everybody

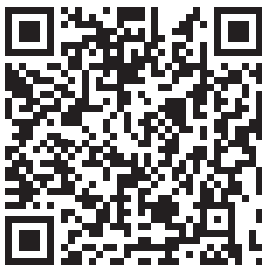
Behavioral Biomarker Scale: leveraging fractionated behavior to understand recovery from spinal cord injury

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Complex motor behaviors that make up naturalistic movements, like those affected by SCI, are built from simpler motor modules pieced together in sequence. The usages of behavioral modules and the transitions between modules following spinal cord injury can provide keen insight about the recovery trajectory and the intrinsic spinal circuits responsible. Using depth imaging and computational modeling, we have fractionated complex mouse motor behavior into components that arise after injury, including dragging, gait instability (waddling), among others. We aim to use these fractionated movements to generate a new and unbiased Behavioral Biomarker locomotor Scale (BBS) with unprecedented sensitivity to measure functional recovery.



Zoom: <https://uni-koeln.zoom.us/j/93085537261?pwd=d3I3NkY2M2J1T2hkamNjYi9CUk9iQT09>

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