Measuring recovery after brain and spinal injury in rodents and non-human primates Symposium

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Preclinical evaluation of treatment strategies aimed at improving outcomes after CNS injury require reliable outcome measures of neurological recovery that are relevant to human clinical trials. This symposium will examine a number of behavioral measures used to evaluate neurological recovery in animals after CNS injury, including the “BBB” locomotor scale and autonomic functional outcomes for spinal cord injury (SCI), tests for forelimb function in brain and spinal injury models in rodents, as well as forelimb tests for non-human primates, and the use of a swimming test for evaluation of recovery after rat SCI. In the final presentation, mathematical methods for evaluating the usefulness of all these measures, and their relationship to underlying mechanisms of repair and recovery will be discussed, and the development of a large database and data mining approach to improving preclinical neurological resting for CBS injury will be presented.

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Jacqueline C. Bresnahan and Yvette S. Nout

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Measuring recovery of forelimb function after CNS injury in rodents and primates, with notes on man
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