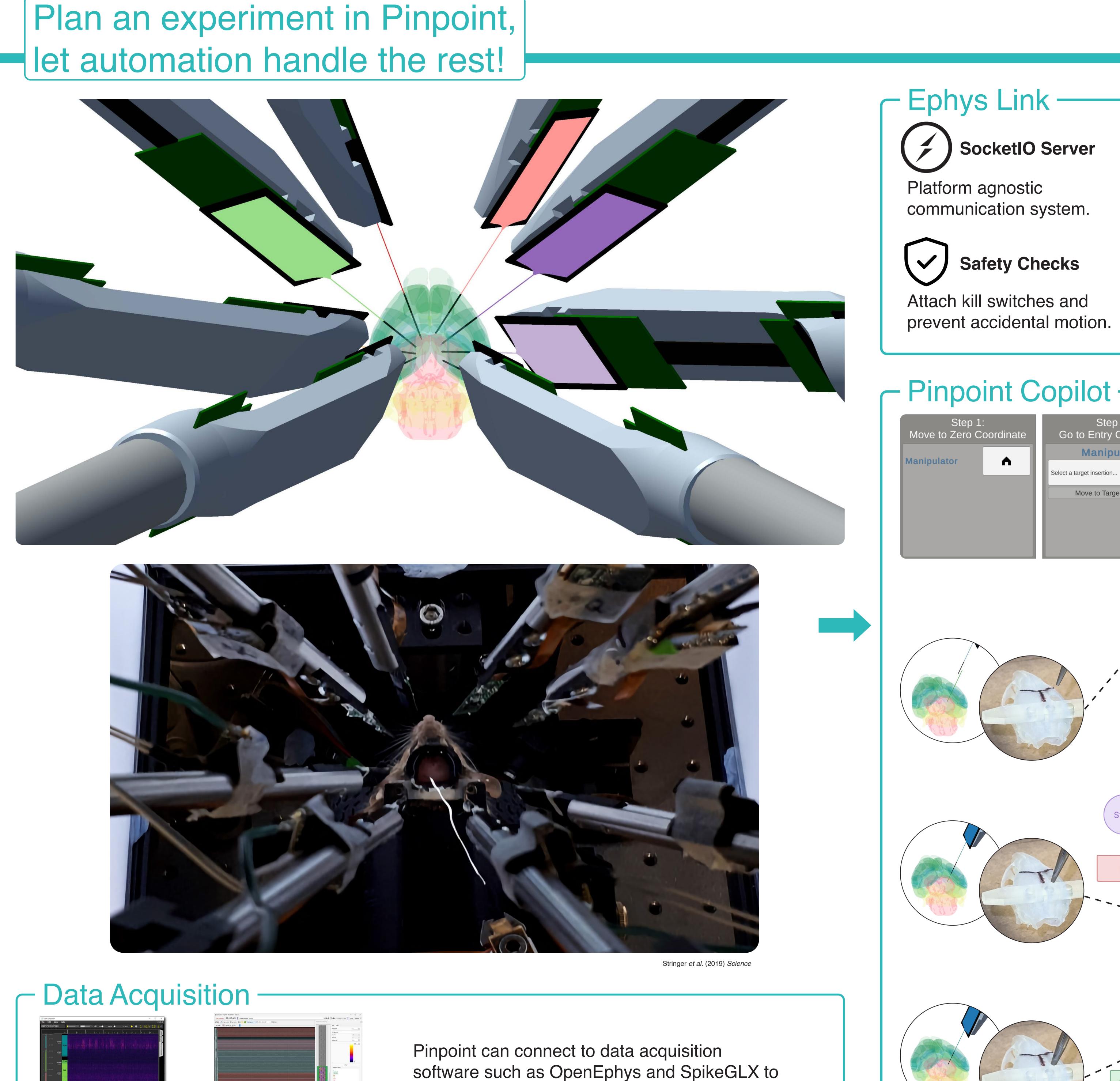
Automating Multi-probe Electrophysiology Insertions for Simultaneous Multi-region Recordings

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let you view anatomical information about your

electrodes alongside live electrophysiology.

Step 1: love to Zero Coordina



(/) SocketIO Server

Platform agnostic communication system



Go to Entry Coordinate

elect a target insertion...

Manipulator

Move to Target Insertion

Unified API

At Exit Margin

At Past Target

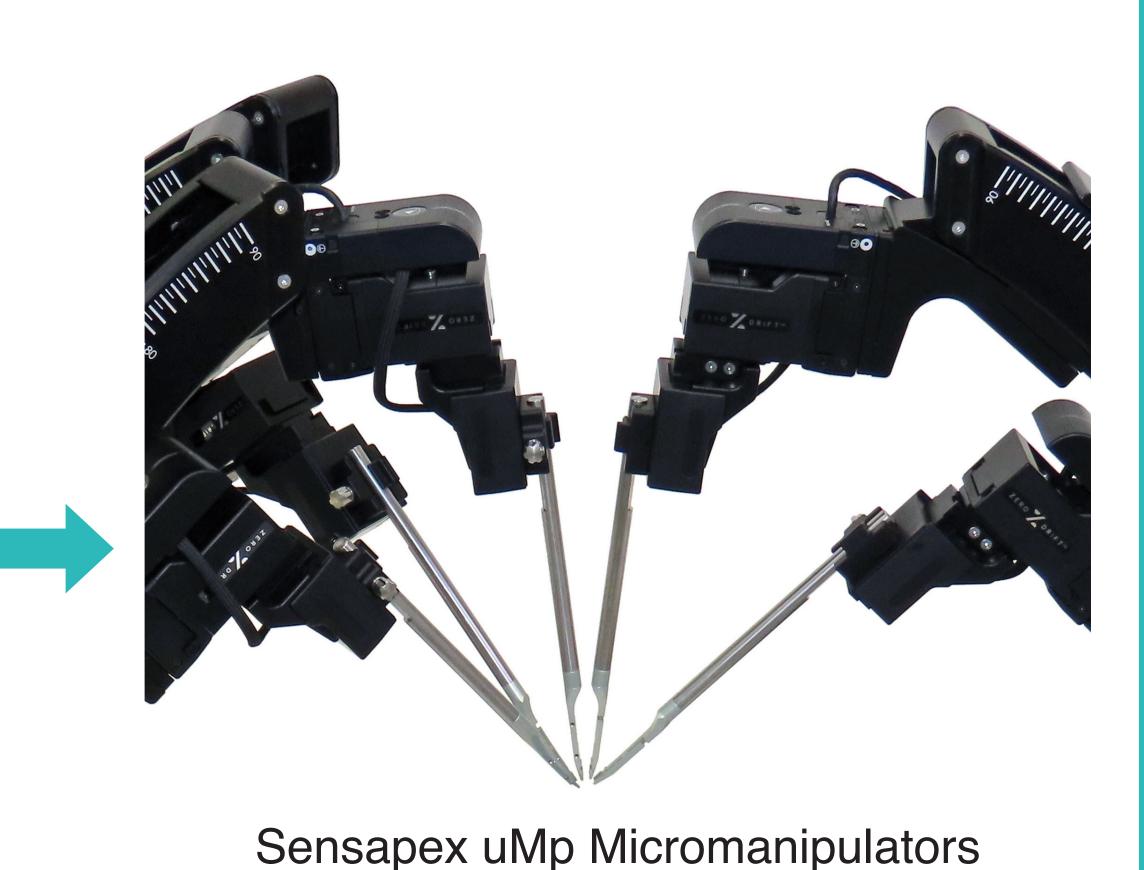
Single API to communicate with various manipulator platforms. prevent accidental motion.

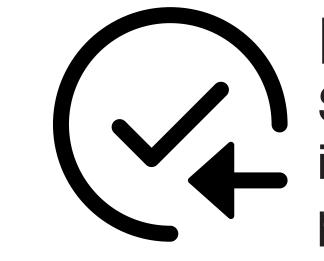
Step 4: Drive to Depth

Unified Coordinate System

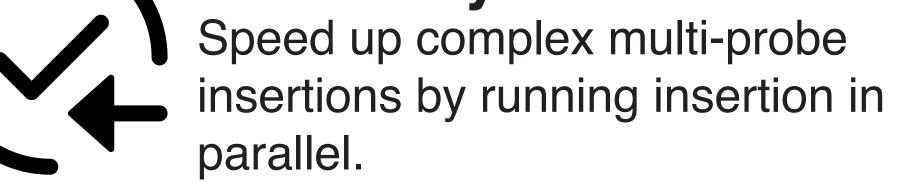
Consistent axis information across

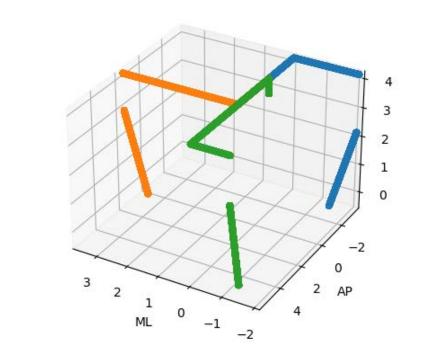
New Scale Linear Micro Stages

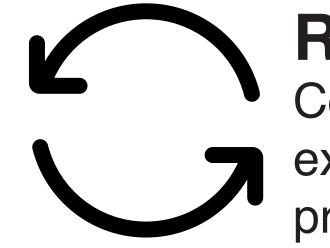




Efficiency

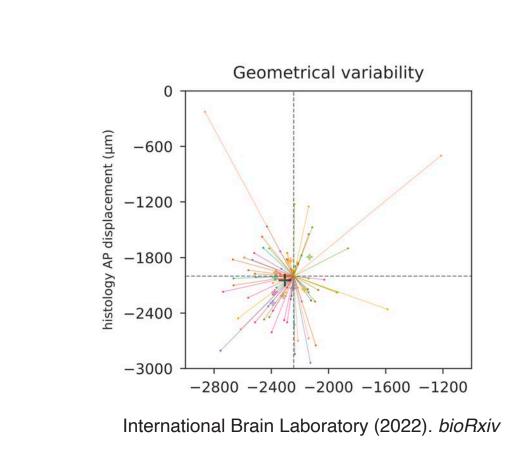






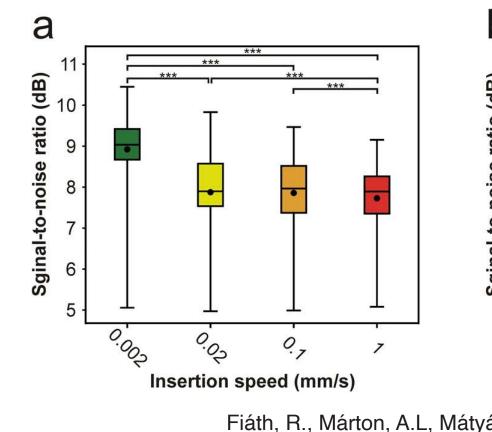
Reproducibility

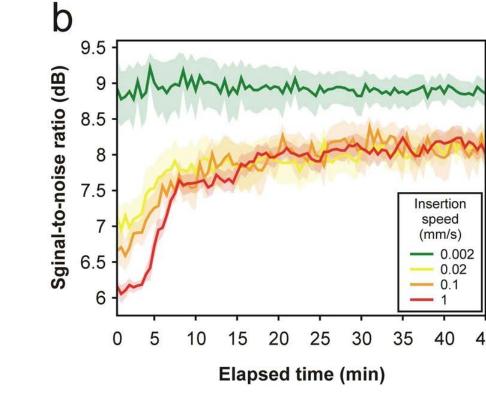
experiments with sub-micron precision.



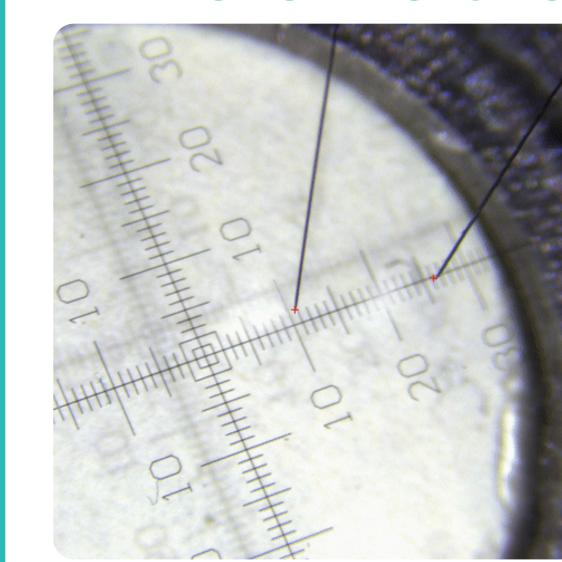
Enforce Best Practices Maintain insertion speeds to achieve

higher data yield.



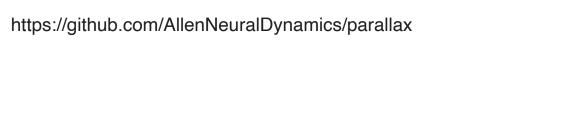


— Where we are going



Automatic Calibration and Probe Tracking

Hands-free electrophysiology experiments via Parallax, a photogrammetry-assisted probe targeting software from the Allen Institute for Neural Dynamics.



Outreach

We want to help you get Pinpoint and automation in your lab. We also want to support the manipulators you use. Scan the QR code to get in touch!



Run an Automated Experiment

