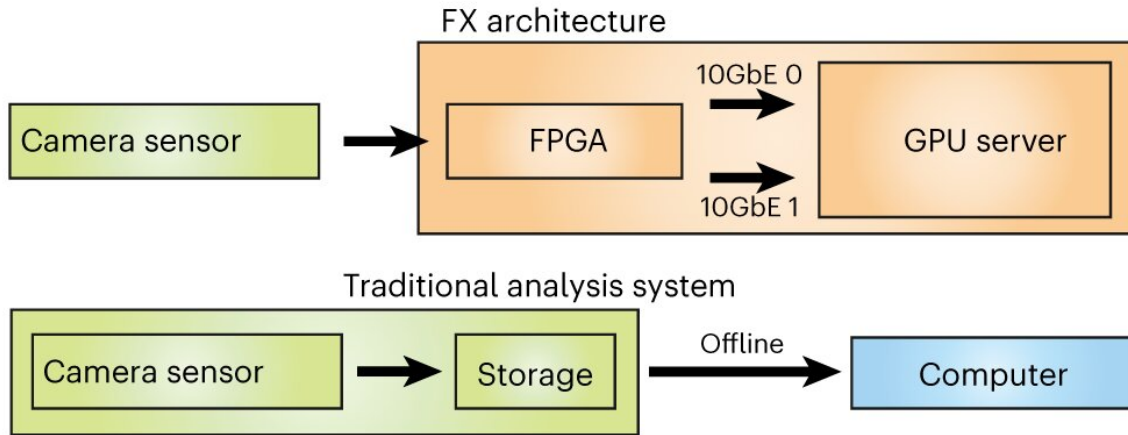


# **Analysis of large-scale neuronal imaging enables closed-loop investigation of neural dynamics**

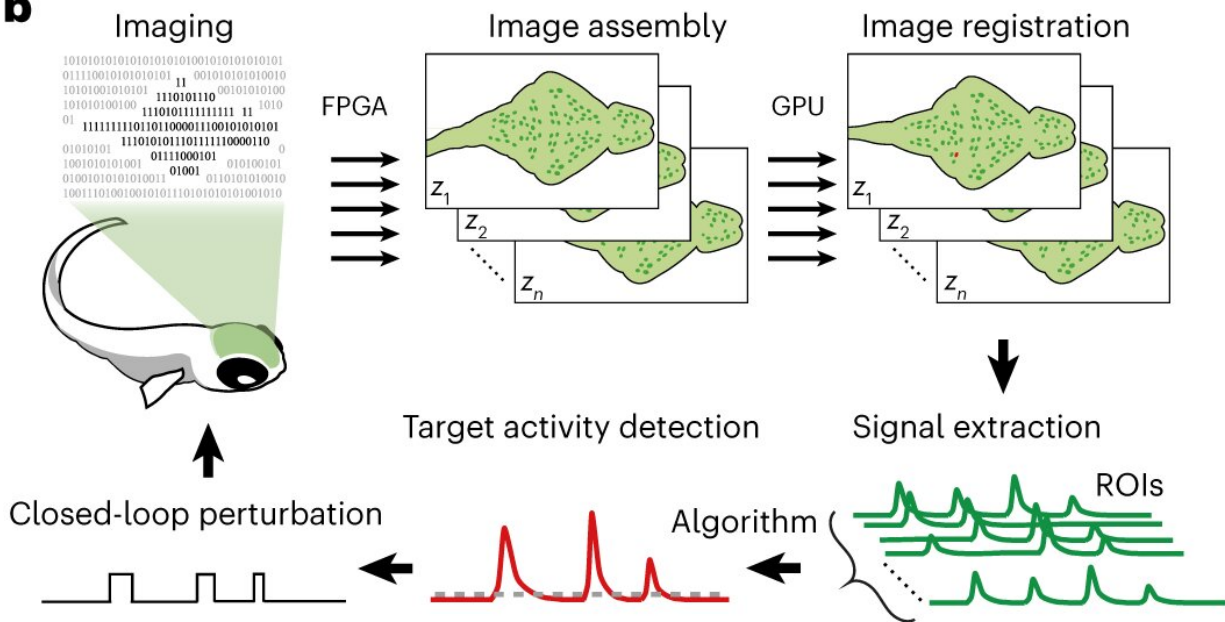
March 13 2024, by Liu Jia

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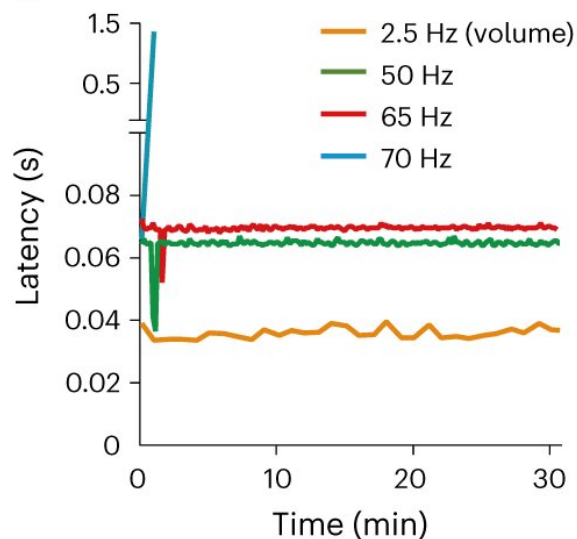
**a**



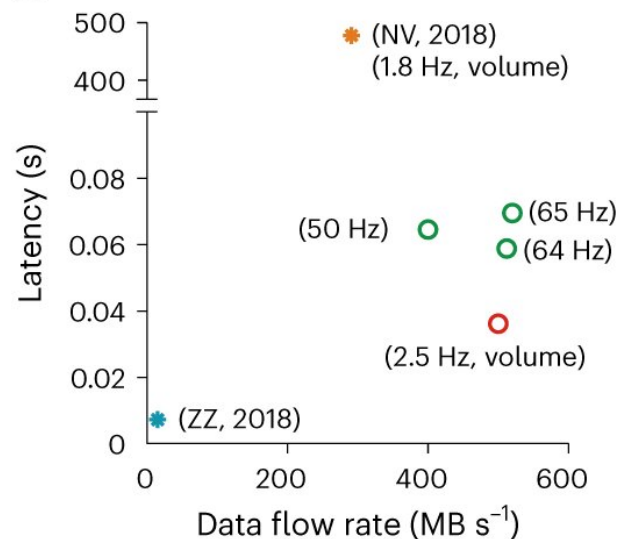
**b**



**c**



**d**



Stable real-time analysis of optical imaging of large-scale neuronal activities. a, FX design-based real-time analysis system for large-scale imaging, in comparison with traditional imaging analysis. b, Illustration of the whole-brain functional imaging and closed-loop delivery of feedback perturbation enabled by the real-time analysis system. c, Stable generation of feedback signals with a latency of

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