

Collaboration between medicine, pharmacy, and engineering to study the principles of brain function

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Research Area

1. Research on the pathology of neurodegenerative diseases and the development of treatments
2. Research on the control of symptoms of neurological and psychiatric disorders through the manipulation of spatiotemporally specific brain activity
3. Research on the mechanisms that regulate the differentiation of neural precursor cells in the cerebral neocortex
4. Research on the mechanical properties of brain tissue and the mechano-sensing mechanisms of neurons

Recent Activities

- Nakazawa *et al.*, *Cell Reports*, 44(3):115405. (2025)
- Matsushita *et al.*, *Proc Natl Acad Sci U S A.*, 121 (50) e2404877121 (2024)
- Fujino *et al.*, *Elife*, 12: RP84338 (2023)
- Konno *et al.*, *Development*, 146 (15): dev174243. (2019)