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研究分野

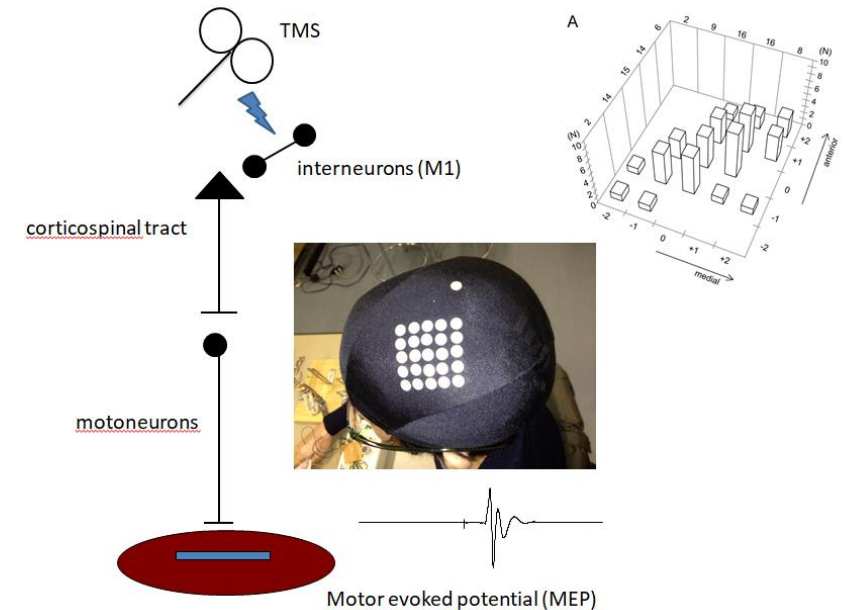
ライフサイエンス / リハビリテーション科学
/ 運動制御 運動学習 神経科学

誘発筋電図や誘発脳波・経頭蓋磁気刺激・H反射などの神経生理学的手法を用いて、中枢神経疾患ならびに健常者における運動制御を研究しています。最近では姿勢制御、歩行開始時の予測的姿勢制御、小脳による運動制御、眼球運動と上肢運動制御の協応、肢節間協調制御などに関する研究を行っています（詳しくはホームページ参照 <https://motorcontrol.web.fc2.com/>）。

最近publishした論文

Gao, H., Fukuda, S., Oda, H., Hamada, N., & Hiraoka, K. (2026). Inhibitory control of response execution when a frequently cued response set is rarely replaced with an alternative one. *Experimental Brain Research*, 244(1), 4.

Otsuka, S., Gao, H., & Hiraoka, K. (2024). Contribution of external reference frame to tactile localization. *Experimental Brain Research*, 242(8), 1957-1970.





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Areas of expertise

Physical therapy for patients with neurological diseases;
Motor control; Motor learning; Neuroscience

We conduct research on motor control in both central nervous system disorders and healthy individuals using neurophysiological techniques such as evoked electromyography, evoked electroencephalography, transcranial magnetic stimulation, and the H-reflex. Recently, my studies have focused on postural control, anticipatory postural adjustments at gait initiation, cerebellar contributions to motor control, coordination between eye movements and upper limb motor control, and inter-limb coordination. <https://motorcontrol.web.fc2.com/>.

(Recently published articles)

Gao, H., Fukuda, S., Oda, H., Hamada, N., & Hiraoka, K. (2026). Inhibitory control of response execution when a frequently cued response set is rarely replaced with an alternative one. *Experimental Brain Research*, 244(1), 4.

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