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Sommario/riassunto	Locomotion involves many different muscles and the need of controlling several degrees of freedom. Despite the Central Nervous System can finely control the contraction of individual muscles, emerging evidences indicate that strategies for the reduction of the complexity of movement and for compensating the sensori-motor delays may be adopted. The scope of this Topic includes, but is not limited to, studies aimed at understanding the role played in control of locomotion of different neural circuits located at brain, cerebellum, and/or spinal cord levels, and related internal models.