



The Circuitry of the Human Spinal Cord: Spinal and Corticospinal Mechanisms of Movement

By Emmanuel Pierrot-Deseilligny, David Burke

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Studies of human movement have proliferated in recent years. This greatly expanded and thoroughly updated reference surveys the literature on the corticospinal control of spinal cord circuits in human subjects, showing how different circuits can be studied, their role in normal movement and how they malfunction in disease states. Chapters are highly illustrated and consistently organised, reviewing, for each pathway, the experimental background, methodology, organisation and control, role during motor tasks and changes in patients with CNS lesions. Each chapter concludes with a helpful résumé that can be used independently of the main text to provide practical guidance for clinical studies. The final four chapters bring together the changes in transmission in spinal and corticospinal pathways during movement and how they contribute to the desired movement. This book is essential reading for research workers and clinicians involved in the study, treatment and rehabilitation of movement disorders.

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About the Author

Emmanuel Pierrot-Deseilligny is Emeritus Professor of Clinical Neurophysiology and Rehabilitation at the Université Pierre et Marie Curie, Paris.

David Burke is the Bushell Professor of Neurology at Royal Prince Alfred Hospital and Associate Dean at Sydney Medical School, the University of Sydney.

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