CONTENTS

I've Got Rhythm: Neuronal Mechanisms of Central Pattern Generators
Organized by: Duane McPherson

845 Coping with Variability in Small Neuronal Networks
Ronald L. Calabrese, Brian J. Norris, Angela Wenning and Terrence M. Wright

856 Network Reconfiguration and Neuronal Plasticity in Rhythm-Generating Networks
Henner Koch, Alfredo J. Garcia III and Jan-Marino Ramirez

869 Flexibility in the Patterning and Control of Axial Locomotor Networks in Lamprey
James T. Buchanan

879 Generation of Locomotion Rhythms Without Inhibition in Vertebrates: The Search for Pacemaker Neurons
Wen-Chang Li

890 Partly Shared Spinal Cord Networks for Locomotion and Scratching
Ari Berkowitz and Zhao-Zhe Hao

903 The Role of Genetically-Defined Interneurons in Generating the Mammalian Locomotor Rhythm
Simon Gosgnach

913 Links between Electrophysiological and Molecular Pathology of Amyotrophic Lateral Sclerosis
Katharina A. Quinlan

The Biomechanics and Behavior of Gliding Flight
Organized by: Robert Dudley

926 Animal Aloft: The Origins of Aerial Behavior and Flight
Robert Dudley and Stephen P. Yanoviak

937 Aerial Righting Reflexes in Flightless Animals
Ardian Jusufi, Yu Zeng, Robert J. Full and Robert Dudley

944 Evolution and Ecology of Directed Aerial Descent in Arboreal Ants
Stephen P. Yanoviak, Yonatan Munk and Robert Dudley

957 Shake Rattle and Roll: The Bony Labyrinth and Aerial Descent in Squamates
Renaud Boistel, Anthony Herrel, Renaud Lebrun, Gheylen Daghfous, Paul Tafforeau, Jonathan B. Losos and Bieke Vanhooydonck

969 Gliding Flight in Chrysopelea: Turning a Snake into a Wing
John J. Socha

983 The Biology of Gliding in Flying Lizards (Genus Draco) and their Fossil and Extant Analogs
Jimmy A. McGuire and Robert Dudley

991 Ecological and Biomechanical Insights into the Evolution of Gliding in Mammals
Greg Byrnes and Andrew J. Spence

1002 Using Physical Models to Study the Gliding Performance of Extinct Animals
M. A. R. Koehl, Dennis Evangelista and Karen Yang