

THE CHINESE JOURNAL OF PHYSIOLOGY

2010

Volume 53

No. 6

ISSN 0304-4920

Special Issue on Neural Coding — NC2009

CONTENTS

Foreword	i
Review	
Neurolinguistic Findings on the Language Lexicon: The Special Role of Proper Names <i>Horst M. Müller</i>	351
Review	
Messages in Spike Timing-Dependent Plasticity: Pros and Cons <i>Daisuke Ishikawa and Yuji Ikegaya</i>	359
Review	
Odour Transduction in Olfactory Receptor Neurons <i>Jean-Pierre Rospars, Yuqiao Gu, Alexandre Grémioux, and Philippe Lucas</i>	364
Invited Paper	
The Copula Approach to Characterizing Dependence Structure in Neural Populations <i>Rick L. Jenison</i>	373
Invited Paper	
Functional Interactions in Hierarchically Organized Neural Networks Studied with Spatiotemporal Firing Patterns and Phase-Coupling Frequencies <i>Stephen Perrig, Javier Iglesias, Vladislav Shaposhnyk, Olga Chibirova, Pierre Dutoit, Jérémie Cabessa, Katerina Espa-Cervena, Laurent Pelletier, François Berger, and Alessandro E.P. Villa</i>	382
Leaky Integrate and Fire Models Coupled through Copulas: Association Properties of the Interspike Intervals <i>Laura Sacerdote and Massimiliano Tamborrino</i>	396
A Hierarchical Classification of First-Order Recurrent Neural Networks <i>Jérémie Cabessa and Alessandro E.P. Villa</i>	407
Accuracy in Estimating Motor Commands Using Neuronal Population Coding <i>Shigefumi Hata</i>	417
Effects of Transient Receptor Potential-Like Current on the Firing Pattern of Action Potentials in the Hodgkin-Huxley Neuron during Exposure to Sinusoidal External Voltage <i>Bing-Shuo Chen, Yi-Ching Lo, Yen-Chin Liu, and Sheng-Nan Wu</i>	423

Fine Frequency-Modulation Trigger Features of Midbrain Auditory Neurons Extracted by the Progressive Thresholding Method — A Preliminary Study <i>T.R. Chang, T.W. Chiu, X. Sun, and Paul W.F. Poon</i>	430
Stochastic Model Shows How Cochlear Implants Process Azimuth in Real Auditory Space <i>Marek Drapal and Petr Marsalek</i>	439
Spiking Neural Networks with Different Reinforcement Learning (RL) Schemes in a Multiagent Setting <i>Chris Christodoulou and Aristodemos Cleanthous</i>	447
Neuronal Jitter: Can We Measure the Spike Timing Dispersion Differently? <i>Lubomir Kostal and Petr Marsalek</i>	454
Responses of Midbrain Auditory Neurons in Rats to FM and AM Tones Presented Simultaneously <i>M.F. Lee, Edmund C. So, and Paul W.F. Poon</i>	465
Errata	472
Future Articles	473
Author Index for Volume 53	475
Subject Index for Volume 53	477
Contents of Volume 53	480