

Contents

Mechanisms of Normal Human Brain Function

- 1 Microelectrode Recordings of Human Temporal Lobe Neurons During Sensory Stimulation
C. L. Wilson
- 15 Physiology of Hippocampal Neurons in Humans and Lower Mammals
M. Isokawa-Akesson, T. L. Babb, and C. L. Wilson
- 27 A Comparative View of Local and Interhemispheric Limbic Pathways in Humans: An Evoked Potential Analysis
C. L. Wilson, M. Isokawa-Akesson, T. L. Babb, J. Engel, Jr., L. D. Cahan, and P. H. Crandall
- 39 Intra-Cerebral Recordings of the Primary Auditory Evoked Potentials in Man
C. Liegeois-Chauvel, P. Chauvel, P. Marquis, A. Musolino, and J. Bancaud
- 51 Asymmetries in Scalp and Intracranial Endogenous ERPs in Patients with Complex Partial Epilepsy
G. McCarthy, T. M. Darcey, C. C. Wood, P. D. Williamson, and D. D. Spencer
- 61 Neuronal Activity in Human Temporal Cortex Related to Naming and Short-Term Verbal Memory
G. A. Ojemann, O. D. Creutzfeldt, and E. Lettich
- 69 Single Neuron Activity in the Right and Left Human Temporal Lobe During Listening and Speaking
O. D. Creutzfeldt, G. A. Ojemann, and E. Lettich
- 83 Language Deficits Elicited by Electrical Stimulation of the Fusiform Gyrus
H. Lüders, R. P. Lesser, D. S. Dinner, H. H. Morris, and E. Wyllie



- 91 Comprehension Deficits Produced by Electrical Stimulation of Wernicke's Area
R. P. Lesser, H. Lüders, H. H. Morris, D. S. Dinner, G. Klem, J. Hahn, and M. Kay
- 103 Evidence for Memory Specialization Within the Mesial Temporal Lobe in Man
R. Rausch and T. L. Babb
- 111 What Stages of Memory Do the Temporal Lobes Serve? A Sodium Amytal Perspective
J. A. Walker, R. G. Stanulis, and K. D. Laxer
- 119 Studies of Manual Learning and Performance After Surgical Excisions for the Control of Epilepsy
G. W. Jason
- 131 EEG Responses to Music in Limbic and Auditory Cortices
H.-G. Wieser and G. Mazzola

Mechanisms of Epileptic Human Brain Function

- 145 The Electrophysiology of Human Brain Slices Resected from "Epileptic" Brain Tissue
P. A. Schwartzkroin
- 155 Intraoperative Microelectrode Recording During Surgery for Temporal Lobe Epilepsy
R. S. McLachlan and J. P. Girvin
- 165 Propagation Pathways of Interhemispheric Seizure Discharges Compared in Human and Animal Hippocampal Epilepsy
J. P. Lieb, T. L. Babb, J. Engel, Jr., and T. M. Darcey
- 171 Morphology of Spikes Recorded Simultaneously by Subdural and Scalp Electrodes
W. T. Blume and J. F. Lemieux
- 187 Epileptic Foci: Correlation Between Standing Potential Contour and Histological Abnormality
F. Morrell and E. Nelson
- 201 ACTH Secretion and Human Temporal Lobe Epilepsy
B. B. Gallagher, H. F. Flanigin, D. W. King, J. R. Smith, A. M. Murro, and W. Littleton

- 209 Contribution of Positron Emission Tomography to
Understanding Mechanisms of Epilepsy
J. Engel, Jr., T. L. Babb, and M. E. Phelps
- 219 State-Dependent Cardiac and Respiratory Changes Associated
with Complex Partial Epilepsy
R. C. Frysinger, R. M. Harper, and R. J. Hackel
- 227 Benzodiazepine Receptor Binding in Human Epileptogenic
Cortical Tissue
*W. M. Burnham, P. A. Hwang, H. J. Hoffman, L. E. Becker,
E. G. Murphy, and S. J. Kish*
- 237 Calmodulin Kinase Activity in Human Brain
*C. G. Wasterlain, J. M. Bronstein, T. L. Babb, R. S. Lasher,
and L. F. Eng*
- 249 Noradrenergic Abnormalities in Human Cortical Seizure Foci
*A. Sherwin, Y. Robitaille, L. Quensey, T. Reader, A. Olivier,
R. Briere, E. Andermann, F. Andermann, W. Feindel,
R. LeBlanc, E. Matthew, R. Ochs, J. Villemure,
and P. Gloor*
- 259 Anterior 2/3 Callosal Bisection: Comparative Observations in
Animals and Man
J. A. Wada
- 267 Plasma Amino Acid, Immunological and Genetic Studies in
Patients Treated Surgically for Focal Epilepsy
*N. A. Janjua, O. Eeg-Olofsson, E. Andermann, B. Lemieux,
R. Giguere, R. D. Guttman, and K. Osterland*
- 279 *Subject Index*