

No. 1

Original Papers

- 1 Fiber Connections of the Corpus Mamillare in a Percomorph Teleost, *Tilapia Oreochromis niloticus***  
Sawai, N.; Yamamoto, N.; Yoshimoto, M. (Tokyo); Ito, H. (Tokyo/Fairbanks, Alaska)
- 14 Immunocytochemical Localization of Gonadotropin-Releasing Hormones in the Brain of a Viviparous Caecilian Amphibian, *Typhlonectes natans* (Amphibia: Gymnophiona)**  
Ebersole, T.J.; Boyd, S.K. (Notre Dame, Ind.)
- 26 Succinic Dehydrogenase Histochemistry Reveals the Location of the Putative Primary Visual and Auditory Areas within the Dorsal Ventricular Ridge of *Sphenodon punctatus***  
Reiner, A. (Memphis, Tenn.); Northcutt, R.G. (La Jolla, Calif.)
- 37 Cross-Species and Intraspecies Morphometric Analysis of the Corpus Callosum**  
Olivares, R.; Michalland, S.; Aboitiz, F. (Santiago)
- 44 Comparative Tests of Primate Cognition: Different Scaling Methods Produce Different Results**  
Deaner, R.O.; Nunn, C.L.; van Schaik, C.P. (Durham, N.C.)

No. 2

Original Papers

- 53 Neural Connections of the Anterior Hypothalamus and Agonistic Behavior in Golden Hamsters**  
Delville, Y. (Worcester, Mass.); De Vries, G.J. (Amherst, Mass.); Ferris, C.F. (Worcester, Mass.)
- 77 Hypothalamic Arginine Vasotocin mRNA Abundance Variation Across Sexes and with Sex Change in a Coral Reef Fish**  
Godwin, J. (Austin, Tex.); Sawby, R. (Phoenix, Ariz.); Warner, R.R. (Santa Barbara, Calif.); Crews, D. (Austin, Tex.); Grober, M.S. (Phoenix, Ariz.)
- 85 Neuromuscular Correlates to the Evolution of Flapping Flight in Birds**  
Goslow, G.E., Jr.; Wilson, D.; Poore, S.O. (Providence, R.I.)
- 100 Phyletic Distribution of Crypt-Type Olfactory Receptor Neurons in Fishes**  
Hansen, A. (Hamburg/Denver, Colo.); Finger, T.E. (Denver, Colo.)

**No. 3**

## Original Papers

- 111 **Ganglion Cells Density and Retinal Resolution in the Sea Otter, *Enhydra lutris***  
Mass, A.M.; Supin, A.Y. (Moscow)
- 120 **The Ocular Morphology of the Southern Hemisphere Lamprey *Mordacia mordax* Richardson with Special Reference to a Single Class of Photoreceptor and a Retinal Tapetum**  
Collin, S.P. (Nedlands); Potter, I.C. (Murdoch)
- 139 **Functional Connectivity among Limbic Brain Areas: Differential Effects of Incubation Temperature and Gonadal Sex in the Leopard Gecko, *Eublepharis macularius***  
Sakata, J.T.; Coomber, P.; Gonzalez-Lima, F.; Crews, D. (Austin, Tex.)
- 152 **Temperature Dependence of Electrocommunication Signals and Their Underlying Neural Rhythms in the Weakly Electric Fish, *Apteronotus leptorhynchus***  
Dunlap, K.D. (Hartford, Conn./Austin, Tex.); Smith, G.T. (Austin, Tex.); Yekta, A. (Hartford, Conn.)

**No. 4**

## Original Papers

- 163 **Visual System in a Diurnal Marsupial, the Numbat (*Myrmecobius fasciatus*): Retinal Organization, Visual Acuity and Visual Fields**  
Arrese, C.; Archer, M.; Runham, P.; Dunlop, S.A.; Beazley, L.D. (Nedlands)
- 176 **Variability in the Location of the Retinal Ganglion Cell Area Centralis Is Correlated with Ontogenetic Changes in Feeding Behavior in the Black Bream, *Acanthopagrus butcheri* (Sparidae, Teleostei)**  
Shand, J.; Chin, S.M.; Harman, A.M.; Moore, S.; Collin, S.P. (Nedlands)
- 191 **Retinal Ganglion Cell Topography in Elasmobranchs**  
Bozzano, A. (Barcelona); Collin, S.P. (Nedlands)
- 209 **Visual System Labeled by c-Fos Immunohistochemistry after Light Exposure in the 'Blind' Subterranean Zambian Mole-Rat (*Cryptomys anelli*)**  
Oelschläger, H.A.; Nakamura, M.; Herzog, M. (Frankfurt a. M.); Burda, H. (Essen)
- 221 **Regional Variation in Receptive Field Properties of Tectal Neurons in Pigeons**  
Gu, Y.; Wang, Y.; Wang, S.-R. (Beijing)

**No. 5****Identifiable Neurons in Invertebrates: From Invariant Cells to Dynamic Systems**

Guest Editor: Janet L. Leonard, Santa Cruz, Calif.

- 233 **Preface**
- 236 **Revisiting the Concept of Identifiable Neurons**  
Bullock, T.H. (La Jolla, Calif.)
- 241 **The Interneurons of the Abdominal Positioning System of the Crayfish How These Neurons Were Established and Their Use as Identified Cells and Command Elements**  
Larimer, J.L. (Austin, Tex.)
- 248 **Network Architectures and Circuit Function: Testing Alternative Hypotheses in Multifunctional Networks**  
Leonard, J.L. (Santa Cruz, Calif.)
- 256 **Attractors: Architects of Network Organization?**  
Mptsos, G.J. (Newport, Oreg.)
- 278 **Subject Index Vol. 55, No. 5, 2000**

**No. 6****The Diversity of Mammalian Cerebral Cortex**

Eleventh Annual Karger Workshop, Miami Beach, Fla., October 22, 1999

Guest Editor: Todd, M. Preuss, New Iberia, La.

- 283 **Preface: From Basic Uniformity to Diversity in Cortical Organization**  
Preuss, T.M. (New Iberia, La.)
- 287 **Taking the Measure of Diversity: Comparative Alternatives to the Model-Animal Paradigm in Cortical Neuroscience**  
Preuss, T.M. (New Iberia, La.)
- 300 **Neurochemical and Cellular Specializations in the Mammalian Neocortex Reflect Phylogenetic Relationships: Evidence from Primates, Cetaceans, and Artiodactyls**  
Hof, P.R.; Glezer, I.I.; Nimchinsky, E.A. (New York, N.Y.); Erwin, J.M. (Rockville, Md.)
- 311 **Cortical Organization in Insectivora: The Parallel Evolution of the Sensory Periphery and the Brain**  
Catania, K.C. (Nashville, Tenn.)
- 322 **Arealization of the Neocortex in Mammals: Genetic and Epigenetic Contributions to the Phenotype**  
Krubitzer, L.; Huffman, K.J. (Davis, Calif.)
- 336 **Neurogenesis and the Evolution of Cortical Diversity: Mode, Tempo, and Partitioning during Development and Persistence in Adulthood**  
Kornack, D.R. (Rochester, N.Y.)
- 345 **Subject Index Vol. 55, No. 6, 2000**
- 347 **Author Index Vol. 55, 2000**
- 348 **Subject Index Vol. 55, 2000**