

Book Reviews

Annual Review of Neuroscience. Vol. 17. Edited by W. Maxwell Cowan, Eric M. Shooter, Charles F. Stevens, and Richard F. Thompson. Annual Reviews Inc., Palo Alto, CA. 1994. vi + 623 pp. 16 × 22 cm. \$47.00.

The 17th volume of *Annual Review* continues the superb tradition of its predecessors by offering the reader tightly consolidated, comprehensive, and current information on subjects of importance to the Neurosciences. It goes without saying that each of the 20 chapters is written by an acknowledged expert and that the breadth of coverage makes the volume important to those wishing to gain insight outside of their area of core expertise.

This edition of *Annual Review* contains six chapters on neuronal development, anatomy, and/or differentiation (motor neurons, Eisen; neocortical neurons, Allendoerfer and Shatz; R7 neurons, Zipursky and Rubin; neocortical and thalamocortical, O'Leary et al.; REM, Mōschovakis and Highstein; the Hōx genes, Keynes) as well as four chapters (Hollman and Heinemann; Hofmann et al.; Tanaka and Nishizuka; Olsen) on the molecular biology of receptors (glutamate, Ca²⁺ channels, protein kinase C, GABA_A, respectively). Other subjects include NOS (Schuman and Madison), synaptic vesicles (Jahn and Sudhop), neuronal polarity (Craig and Banker), the function of dendritic spines (Harris and Kater), G-proteins (Clapham), and the organization of memory traces (Thompson and Krupa). Finally, four chapters are devoted to CNS pathology including the reaction of non-neuronal tissues to early brain injury (Landis), multiple sclerosis and immune theory (Stein-

man et al.), prion diseases (Prusiner and DeArmond), and the normal and abnormal biology of the β-amyloid precursor (Selkoe).

Each chapter is easily readable, richly illustrated, and comprehensively referenced. The subject index is extensive, and Volume 17 is cross-referenced to earlier editions in the series. At \$47.00, the department library has little reason not to continue a subscription to the series.

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Books of Interest

Receptor Autoradiography. Principles and Practice. Edited by John Wharton and Julia M. Polak. Oxford University Press, New York. 1994. xvii + 335 pp. 18 × 24.5 cm. ISBN 0-19-262209-9. \$59.95.

Metabolic Activation and Toxicology of Chemical Agents to Lung Tissue and Cells. Edited by T. E. Gram. Elsevier Science Limited, Oxford, England. 1993. xvi + 308 pp. 19 × 27.5 cm. ISBN 0-08-041177-0. \$135.00.

Homogeneous Hydrogenation (Catalysis by Metal Complexes). By Penny A. Chaloner, Miguel A. Esteruelas, Ferenc Joo, and Luis A. Oro. Kluwer Academic Publishers Group, The Netherlands. 1994. x + 287 pp. 15.5 × 23 cm. ISBN 0-7923-24749. \$118.00.