

referred to as "figures" in the text) demonstrate most of the important graptolite morphology and are the real strength of the book. Such features as details of the prosicula, metasicula, and crossing canals and other structures rarely preserved on most specimens are shown in splendid scanning electron micrographs. The book includes almost everything that is important for a general understanding of graptolites and with its fine illustrations will be useful for those who are instructing students or who are just collecting fossils.

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## Approachable Immunology

**Cellular and Molecular Immunology.** ABUL K. ABBAS, ANDREW R. LICHTMAN, and JORDAN S. POBER. Saunders, Philadelphia, PA, 1991, xii, 417 pp., illus. Paper, \$26.95. Supplementary slide set, \$250.

The major challenge facing the immune system is similar to that faced by the writer of a textbook on the subject: a constantly changing environment. The last 10 years have seen an explosion in our knowledge of the workings of the immune system, with many of the mysteries of the complex cellular and molecular interactions finally beginning to be elucidated. This explosion of information has made it difficult to find an introductory textbook on immunology that is both up-to-date and of high quality. The publication of this book has solved that problem, at least for the near future.

The key attribute of this book is the clarity and conciseness with which it presents this complex and abstruse field. Text and figures are well coordinated, and the figures are outstanding, presenting the information clearly and simply but still conveying the essence of the experiments.

The text, comprising 19 chapters, is divided into four sections: Introduction to Immunology; Lymphocyte Specificity and Activation; Effector Mechanisms of Immune Responses; and Immunity in Defense and Disease. Each chapter has four to six subsections, including a summary and about a dozen key references. Informational boxes are included to provide important or noteworthy background information on diverse aspects of immunological research that are crucial for understanding modern immunology but that fall between the cracks in many courses. A sampling of the topics found in these boxes are CD-molecule nomenclature, hybridomas, transgenic mice, cytokine re-

ceptor families, and immunity to malaria. Another nice teaching aid is the availability of a moderately priced slide set of the figures from the book.

Aimed primarily at medical students, this comprehensive, balanced, and approachable presentation will provide both medical students and Ph.D. candidates with an excellent foundation in immunology. The book is not so comprehensive as to scare them off, but there is enough substance to convey an understanding and appreciation of the immune system. An essential but often missing component of immunology textbooks is the clear establishment of the connection between the immune system and clinical medicine. Section 4, which focuses on the role of the immune system in defense against pathogens and on diseases caused by abnormalities in the immune system, firmly establishes this link.

How does this book compare to those already in use? In my opinion, it is the best available textbook of immunology for medical and research-oriented graduate students. The popular *Essential Immunology* by Roitt, the seventh edition of which was published in 1991, is also thoroughly illustrated, but it is less comprehensive and is better suited for undergraduates. On the other hand, the excellent *Fundamental Immunology*, edited by William Paul, is very comprehensive, with each of the chapters written by a leading expert, but is more suitable for advanced students. *Molecular and Cellular Immunology* fills a gap between these two extremes. It is a scholarly work that gives substantive accounting of current immunology in a way that is ideally suited for a medical graduate student's first exposure to the subject.

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## Books Received

**Console and Classify.** The French Psychiatric Profession in the Nineteenth Century. Jan Goldstein. Cambridge University Press, New York, 1991. xiv, 414 pp., illus. Paper, \$18.95. Reprint, 1988 ed.

**Contemporary Constructions of the Child.** Essays in Honor of William Kessen. Frank S. Kessel, Marc H. Bornstein, and Arnold J. Sameroff, Eds. Erlbaum, Hillsdale, NJ, 1991. xxvi, 323 pp., illus. \$49.95.

**Contemporary Electroanalytical Chemistry.** Ari Ivaska, Andrzej Lewenstam, and Rolf Sara, Eds. Plenum, New York, 1990. x, 458 pp., illus. \$120. From a conference, Turku-Abo, Finland, June 1988.

**Contraception and Mechanisms of Endometrial Bleeding.** C. D'Arcangues et al., Eds. Published for the World Health Organization by Cambridge University Press, New York, 1991. xii, 547 pp., illus. \$130. Scientific Basis of Fertility Regulation. From a symposium, Geneva, Nov. 1988.

**Electronic Circuits.** Design and Applications. U. Tietze and Ch. Schenk with E. Schmid. Springer-Verlag, New York, 1991. xiv, 928 pp., illus. \$49. Translated from the German edition (Berlin, 1990).

**The Estate of Social Knowledge.** JoAnne Brown and David K. van Keuren, Eds. Johns Hopkins University Press, Baltimore, MD, 1991. xxviii, 266 pp. \$39.95. Johns Hopkins Symposia on Comparative History, 19. From a summer institute, Stanford, CA, 1986.

**Evolution and a Creator?** Graham Beale. Clinical Press, Bristol, U.K., 1991 (distributor, Gazelle, Lancaster, U.K.). xii, 90 pp., illus. Paper, £9.95.

**The Evolution of Homo erectus.** Comparative Anatomical Studies of an Extinct Human Species. G. Philip Rightmire. Cambridge University Press, New York, 1991. xii, 260 pp., illus. \$44.50.

**The Evolution of Parental Care.** T. H. Clutton-Brock. Illustrations by Dafila Scott. Princeton University Press, Princeton, NJ, 1991. xiv, 352 pp. \$49.50; paper, \$19.95. Monographs in Behavior and Ecology.

**Hunter-Gatherers.** Archaeological and Evolutionary Theory. Robert L. Bettinger. Plenum, New York, 1991. xviii, 257 pp., illus. \$35. Interdisciplinary Contributions to Archaeology.

**The Idea of Wilderness.** From Prehistory to the Age of Ecology. Max Oelschlaeger. Yale University Press, New Haven, CT, 1991. xiv, 477 pp. \$29.95.

**Inborn Errors of Metabolism.** Jürgen Schaub, François Van Hoof, and Henri L. Vis, Eds. Raven, New York, 1991. xx, 298 pp., illus. \$62. Nestlé Nutrition Workshop Series, vol. 24. From a workshop, Brussels, Belgium, Sept. 1989.

**Life in the Shadow.** Living with Cancer. Bill Soiffer. Chronicle Books, San Francisco, CA, 1991. 191 pp. \$18.95.

**Physiological Aspects of Digestion and Metabolism in Ruminants.** T. Tsuda, Y. Sasaki, and R. Kawashima, Eds. Academic Press, San Diego, CA, 1991. xxvi, 770 pp., illus. \$85. From a symposium, Sendai, Japan, Aug. 1989.

**Plant Life Under Oxygen Deprivation.** Ecology, Physiology, and Biochemistry. M. B. Jackson, D. D. Davies, and H. Lambers, Eds. SPB Academic Publishing, the Hague, The Netherlands, 1991. xii, 326 pp., illus. \$75.

**Postimplantation Mammalian Embryos.** A Practical Approach. A. J. Copp and D. L. Cocroft, Eds. IRL (Oxford University Press), New York, 1991. xxii, 357 pp., illus. Spiral bound, \$82; paper, \$55. Practical Approach Series.

**A Practical Guide to Behavioral Research.** Tools and Techniques. Barbara Sommer and Robert Sommer. 3rd ed. Oxford University Press, New York, 1991. xvi, 362 pp., illus. \$39.95; paper, \$19.95.

**Single Variable Calculus.** James Stewart. 2nd ed. Brooks/Cole, Pacific Grove, CA, 1991. xviii, 737 pp., illus. \$47.25.

**Steroids Made it Possible.** Carl Djerassi. American Chemical Society, Washington, DC, 1990. xxiv, 205 pp., illus. \$24.95. Profiles, Pathways, and Dreams. Autobiographies of Eminent Chemists.

**Stress, Coping and Disease.** Philip M. McCabe et al., Eds. Erlbaum, Hillsdale, NJ, 1991. xvi, 280 pp., illus. \$39.95. Stress and Coping. From symposium, Miami, FL, 1988.

**Sunsets, Twilights, and Evening Skies.** Aden and Marjorie Meinel. Cambridge University Press, New York, 1991. x, 163 pp., illus., + plates. \$44.50; paper, \$19.95. Reprint, 1983 ed.

**Sweat of the Sun, Tears of the Moon.** A Chronicle of an Incan Treasure. Peter Lourie. Atheneum (Macmillan), New York, 1991. viii, 307 pp. \$19.95.

**Technology and Economics.** Papers Commemorating Ralph Landau's Service to the National Academy of Engineering. H. Dale Langford, Ed. National Academy Press, Washington, DC, 1991. vi, 128 pp., illus. \$19. From a symposium, Washington, DC, April 1990.

**Temporal Control of Drug Delivery.** William J. M. Hruschkesy, Robert Langer, and Felix Theeuwes, Eds. New York Academy of Sciences, New York, 1991. xviii, 641 pp., illus. Cloth or paper, \$160. Annals of the New York Academy of Sciences, vol. 618. From a conference, New York, Feb. 1990.

**True Nutrition, True Fitness.** Jerrold Winter. Humana, Clifton, NJ, 1991. x, 419 pp. \$19.95.

**Tuva or Bust!** Richard Feynman's Last Journey. Ralph Leighton. Norton, New York, 1991. 259 pp., illus. \$19.95.

**Unfinished Conversations.** Mayas and Foreigners Between Two Wars. Paul Sullivan. University of California Press, Berkeley, 1991. xxviii, 269 pp., illus. Paper, \$12.95. Reprint, 1989 ed.

**Unlocking the English Language.** Robert Burchfield. Hill and Wang (Farrar, Strus, and Giroux), New York, 1991. xx, 202 pp. \$18.95. Essays on lexicography and grammar by a former editor of the Oxford English dictionaries.