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LINUS PAULING: SCIENTIST AND CRUSADER

by Florence Meiman White. 1980.
Walker and Co. (720 Fifth Avenue,
New York, NY 10019). 90 p. \$9.95.

Linus Pauling is an enjoyable biography of the only American to have won two Nobel Prizes. This book seems most appropriate for junior high students, although the drab cover and the few photographs it contains are not likely to stimulate someone browsing through library bookshelves. Though I was pleased to see a biography written about a scientist for younger students, I feel the book needs to be more visually attractive to entice readers.

This book is non-technical and describes Dr. Pauling's scientific achievements on an elementary level. His work on the nature of the chemical bond, the shape of proteins, and the vitamin C controversy is discussed too briefly. However, his involvement in the nuclear disarmament movement seems more fully developed. This biography contains interesting facts about his childhood and his motivation for studying science.

Gary K. Wanke
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Physiology and Anatomy

HUMAN ANATOMY AND PHYSIOLOGY LABORATORY MANUAL

by Elaine Nicpon-Marieb. 1981. The Benjamin/Cummings Publishing Co., Inc. (2727 Sand Hill Road, Menlo Park, CA 94025). 600 p. \$14.95.

Many students who study human anatomy and physiology find that it is necessary to purchase many expensive books, a text, a laboratory manual, and perhaps a cat or fetal pig manual. This spiral bound manual (which comes in either a cat or fetal pig edition) combines text, laboratory manual, and cat or fetal pig guide. A Solutions Manual and a set of 68 transparencies are available free to the instructor who adopts the manual.

The text contains 15 units representing the standard chapter divisions in typical human anatomy and physiology college texts. Each unit is subdivided into exercises. For example, Unit 1 is "The Human Body: An Orientation;" Exercise 1 is "The Language of Anatomy;" Exercise 2 is "Organ System Overview." At the back of the manual is a corresponding laboratory review and study section.

The text has many excellent illustrations, although they are achromatic. The writing style is clear and to the point. The use of boldface print for key words is very helpful.

The convenience of one relatively inexpensive manual represents an excellent idea for a human anatomy and physiology course, although an additional text with more background material may still be necessary. There is also need for a self-pronouncing glossary as well as more material on the history of the subject and recent trends. Yet, this is a very fine manual.

Monroe Cravats
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THE JOHNS HOPKINS ATLAS OF HUMAN FUNCTIONAL ANATOMY

by George D. Zuidema, ed., illus. by Leon Schlossberg. 2nd ed., 1980. The Johns Hopkins University Press (Baltimore, MD 21218). 126 p. \$17.50 hardback, \$10.95 softback.

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second edition. Thirty new illustrations provide greater detail on various anatomical systems, and these additional plates are supplemented with new text. This atlas again combines the talents of medical illustrator Leon Schlossberg and the faculty of the Johns Hopkins University School of Medicine, under the editorial guidance of Dr. George D. Zuidema.

Clearly labeled illustrations are an integral part of the study of anatomy. Schlossberg's work gives new meaning to the word illustration. His finely detailed renderings of each anatomical system, organ, or body region are of excellent quality. Especially noteworthy is his ability to paint structures on opaque paper in such a manner as to make them appear transparent. It is possible to look through the body, not merely at it. This is a great advantage in seeing various organs in their relationship to one another. Color coding different systems/structures facilitates their identification.

Accompanying the 178 excellent, full-color illustrations is a concise, information-packed text. Each chapter is authored by one or more Johns Hopkins University faculty members, and covers an organ or system within that person's specialty. The text supplements the illustrations, and emphasizes the physiology and the interrelationship of body systems. It stresses the functional aspect of anatomy.

A glossary of anatomical terms, a general index, and a list of plates enhances use of this book. The *Atlas* is an excellent basic reference for functional anatomy. Contrary to the promotional flyer, this would not be a good book for beginning students (if it were their only source); the information is much too concentrated for beginners to digest. However, it should be an invaluable resource for anyone teaching human anatomy, and a handy reference volume for advanced students.

Nancy A. Andersen
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VERTEBRATES: PHYSIOLOGY

Introductions by Norman K. Wessells. 1980. W.H. Freeman and Co. (660 Market Street, San Francisco, CA 94104). 256 p. \$19.95 hardback, \$9.95 softback.

Vertebrates: Physiology is an anthology of readings from *Scientific American* which, as Norman Wessells tells us in his preface, is designed to complement a standard textbook for an introductory biology, vertebrate biology, comparative anatomy, or physiology course. The book would be fine for the advanced subjects, but, because many of the articles assume that the reader already has a firm grasp of the fundamentals of biology and chemistry (including some biochemistry), I felt that the material was too advanced for an introductory course.

The book is divided into five sections, covering the cardiovascular system, gas exchange, osmoregulation (water balance), temperature adaptations, and the endocrine system. The nervous system is not given an explicit treatment, but the role of the nervous system in organizing and mediating physiological activities becomes clear in the text of many of the articles. Each section is introduced by Dr. Wessells; the introduction provides a brief overview of the section topic, and gives corrections where additional research has changed or clarified the understanding of a subject since the original publication of an article.

The writing throughout the book is clear and succinct, interesting as well as informative. Differences in writing style between articles are minor and not at all distracting. The illustrations are excellent, in typical *Scientific American* style, with extensive use of multi-color graphics and photomicrography. The book is particularly useful as an adjunct to a standard physiology textbook because many of the articles describe physiological mechanisms in light of their ecological and adaptive (i.e., evolutionary) context, something that physiology texts often

neglect. However, some of the articles are merely descriptive and do not add much to the treatment given by a typical physiology book (e.g., "The Heart" and "The Lungs"). Additionally, two of the older articles ("The Heart" and "The Microcirculation of the Blood") give measurements in English units in annoying contrast to modern textbooks, which give measurements exclusively in metric units. These are minor drawbacks, though, and otherwise the book warrants a strong recommendation. So pervasive is the evolutionary approach throughout most of the book that I feel it would make an admirable second textbook for an evolutionary biology course, as well as for the anatomy and physiology courses for which it is designed.

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Related Fields

PALEOBIOLOGY OF THE INVERTEBRATES: DATA RETRIEVAL FROM THE FOSSIL RECORD

by Paul Tasch. 2nd ed., 1980. John Wiley and Sons, Inc. (One Wiley Drive, Somerset, NJ 08873). 975 p. \$32.95.

The claims made by the author of this book are borne out in the arrangement of the chapters and the comprehensiveness of the material. In my opinion it is adaptable to a review as well as an in-depth study of paleobiology.

Although Dr. Tasch does not include other disciplines in his suggested uses of this book, a thorough review will show that it can serve as a useful reference to taxonomists, ecologists, and biogeographers.

While the illustrations are primarily of fossils, the author has also included diagrams and illustrations of the develop-