

chromosome abnormalities of number and structure, their causes and resulting syndromes. There are sections dealing with the control of gene expression, dosage effects and inactivation by various mechanisms as well as genome destabilization in cancer. The final sections deal with the mapping of human chromosomes, the Human Genome Project and chromosome evolution. The book ends with a discussion of unsolved questions and suggests future directions.

This is a useful and stimulating introduction to human cytogenetics, the text covers the principles of cytogenetics and is illustrated with examples that demonstrate the underlying mechanisms and also show the growing clinical importance of

molecular cytogenetics. Many practical examples are given and illustrated with beautiful pictures to demonstrate the contributions that are being made by these studies to help understand the role of abnormal chromosomes in human disease.

ELIZABETH M PARRY

*Centre for Molecular Genetics and Toxicology,
School of Biological Sciences,
University of Wales Swansea,
Singleton Park,
Swansea SA2 8PP, UK*

Books Received

Cancer: The Evolutionary Legacy. Mel Greaves. Oxford University Press, New York. 2000. Pp. 276. Price £19.99, hardback. ISBN 0-19-262835-6.

Why Animal Experimentation Matters: The Use of Animals in Medical Research. Ellen Frankel Paul and Jeffrey Paul. Transaction Publishers, New Brunswick, USA. 2001. Pp 224. Price \$49.95, hardback. ISBN 0-7658-0025-X.

The Triplet Genetic Code: Key to Living Organisms. Lynn E.H. Trainor. World Scientific Publishing Co . Pte. Ltd., London. 2001. Pp. 122. Price £17.00, paperback. ISBN 981-02-4468-1.

The Genetic Gods: Evolution and Belief in Human Affairs. John C. Avise. Harvard University Press, London. 2001. Pp. 278. Price £12.50, paperback. ISBN 0-674-00533-3.

Plant Genotyping: The DNA Fingerprinting of Plants. R.J. Henry (ed). CABI Publishing, Oxford. 2001. Pp. 325. Price £55.00, hardback. ISBN 0-85199-515-2.

Quantitative Trait Loci in Animals. J.I. Weller. CABI Publishing, Oxford. 2001. Pp. 287. Price £27.50, hardback. ISBN 0-85199-402-4.