

**Monoclonal Antibodies: Production and Application.** *Advances in Biotechnological Processes*, Volume 11. Edited by AVSHALOM MIZRAH. Published 1989 by Alan R. Liss, New York. ISBN: 0-8451-3210-5.

From the discovery of monoclonal antibodies in 1975 by Milstein and Kohler, who demonstrated that specific antibody-secreting cell lines could be obtained by the hybridization of immune mouse spleen and myeloma cells, followed by culture in selective medium, an enormous development in this field has been carried out in different areas of science and development, including normal and pathological conditions. This book gives a general outline of the production and application of these substances, and contains the following topics:

- Human monoclonal antibodies: their potential, problems, and prospects;
- Equipment and procedures for production of monoclonal antibodies in culture;
- Stirred tank perfusion reactors for cell propagation and monoclonal antibody production;
- Serum-free media used for cultivation of hybridomas;
- Large-scale purification of monoclonal antibodies;
- High performance liquid chromatography and related methods in purification of monoclonal antibodies;
- Immunotoxins: monoclonal antibody-toxin conjugates—a new approach to cancer therapy;
- Use of monoclonal antibodies in immunodiagnostic systems;
- Monoclonal antibodies in cancer diagnosis and therapy;
- Monoclonal antibodies as new antitumor agents;
- Monoclonal antibodies as catalysts and templates for organic chemical reactions.

This book would be useful for biochemists, physiologists, molecular biologists, oncologists and general clinicians.

**Perspectives in Andrology.** *Serono Symposia*, Volume 53. Edited by M. SERIO. Published 1989 by Raven Press, New York. ISBN: 0-88167-561-X.

Andrology has considerably expanded during the last ten years. The modern bio-technologies, in particular cell-culture techniques and molecular biology, quickly provided a large amount of basic information on the male reproductive system.

Sexual differentiation, cell-to-cell modulation of testicular function, gonadal regulation of FSH secretion, molecular biology of spermatogenesis, growth factors in the testis, pituitary-testicular interactions, the epididymis and sperm maturation are carefully reviewed on the basis of the more recent experimental data. Topics of clinical interest are also included, such as testicular tumours, endocrine-dependent prostatic diseases (including prostatic cancer), male infertility, new technologies in reproductive medicine and lastly, impotence.

The main topics covered are as follows:

- Fetal cell differentiation;
- Gonadal regulation of FSH secretion;
- The molecular biology of spermatogenesis: regulation of mammalian protamines from gene to protein;
- On the role of epididymal factors in sperm maturation in man;
- Evaluation of male infertility;
- Endocrine dependent prostate disease;
- Testicular tumours: prevention by early detection of carcinoma-*in situ* testis;
- The androgen receptor;

- Pituitary-testicular interactions;
- Neuroendocrine factors in testicular control;
- Local control mechanism in the testis;
- Gene expression and growth factors in the testis;
- Sperm maturation and sperm function;
- Seasonal breeding in male animals;
- Diagnostic approaches of male infertility;
- Management of male infertility;
- New technologies in reproductive medicine;
- Prostatic cancer;
- Impotence;
- Methods for the regulation of male fertility.

This book is of great interest for biologists, endocrinologists, urologists, and medical students who want to improve their knowledge in male reproduction.

**Advances in Cancer Control. Innovations and Research.** *Progress in Clinical and Biological Research*, Volume 293. Edited by P. N. ANDERSON, P. F. ENGSTROM and L. E. MORTENSON. Published 1989 by Alan R. Liss, New York. ISBN: 0-8451-5143-6.

This volume reports increases in the quality of research in cancer control. It is remarkable in demonstrating examples of very high academic levels of research applied to cancer control. Discussions of the academic disciplines of change and innovation are new areas of thought related to cancer control.

As in previous volumes of this series, there is heavy emphasis on improvements in screening and early detection of cancer, in motivation and design of programs to stimulate cancer prevention or avoidance behavior. These studies show results of more careful research standards for the projects being demonstrated, and better use of scientific controls.

The realities of the effects of current health care economics on the ideal of carefully controlled cancer management continue to be explored. The areas related to technology transfer from the academic centers to the majority of the country's population continue to be significantly restricted by old and new restraints. This volume continues discussions of "innovation to implementation: impact of real-life health care environments and economics".

The excitement and challenge of cancer control remains a significant stimulus to excellent nationwide efforts to reduce morbidity and mortality from this disease. This volume gives evidence for these continued high level efforts. Appreciation of the big picture of health care, and of the position of cancer management in the competition for resources to reduce premature preventable death from all causes, is necessary for accurate evaluation of the success of the national cancer program and its cancer control goals.

The main topics covered are as follows:

- Innovations in cancer prevention and control;
- Innovations in the management of change;
- Innovations in screening: evaluating periodic screening; without using data from a control group;
- Methodologic issues in the design of primary prevention trials;
- Breast cancer screening research;
- Research on tobacco use cessation;
- A smoking history analysis of former and current smokers;
- Risk assessment and screening interventions;
- Community-based cancer research;

This book is very useful for oncologists, clinicians, people working, in cancer research, biologists, and advanced students.