Preface

Since the first edition of the Handbook of Andrology, published by the American Society of Andrology 15 years ago, over 20,000 printed copies, as well as uncounted numbers of electronic copies, have been distributed to colleagues and trainees around the world. The first edition was translated into Spanish, Italian and Chinese. Most of the fundamental information provided in the first edition is still valid; however, the volume of scientific literature on the various facets of the subject of andrology has expanded tremendously. This has resulted in a constantly growing body of knowledge, not only in basic science but also in the clinical management of men’s health issues.

In this edition, we have increased the number of chapters from 24 to 41, but have made every effort to retain a style that will allow trainees to be introduced to the field of Andrology and become as excited about working in this field as are the contributing authors. Our chapters encompass the wide range of topics that characterizes the field of Andrology, from molecular biology to veterinary and human medicine, from applied research to ethics. We once again have been extremely fortunate to have as authors world-renowned Andrologists who are experts in the various subjects included in the Handbook; we wish to thank each of them for their valuable contributions.

With the advances in information technology, we feel that it is time to drop the traditional format of a paper bound book and move to an electronic only version for this edition of the Handbook. With the support of the American Society of Andrology, this edition of the Handbook will be freely available to all members of the Society. The electronic version is available as a single PDF or as PDFs of individual chapters. We believe that this approach will allow for a wider scope of circulation of the Handbook, permit more frequent updates of the content, and help save a forest of trees.

It is our hope that this second edition of the Handbook of Andrology lays the foundation for basic scientists, clinician scientists, healthcare professionals, trainees, policy makers and anyone who has an interest in the discipline to acquire the relevant knowledge that they seek.

Finally, we would like to acknowledge the dedicated secretarial support of Ms. Elise Boivin-Ford and to thank all the contributors and various members of the American Society of Andrology for their assistance and support in making this Handbook possible.

Bernard Robaire and Peter Chan
Co-Editors
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List of Contributors

Co-editors
Bernard Robaire, Ph.D.*
Department of Pharmacology and Therapeutics
McGill University
3655 Promenade Sir-William-Osler
Montreal, QC H3G 1Y6
Canada

Peter Chan, M.D.
McGill University
Department of Surgery
Royal Victoria Hospital
687 Pine Avenue West, S6.95
Montreal, QC H3A 1A1
Canada

Janice L. Bailey, Ph.D.
Centre de recherche en biologie de la reproduction
Faculté des sciences de l’agriculture et de l’alimentation
Pavillon Paul-Comtois, local 4147
Université Laval
Québec, QC G1K 7P4
Canada

Authors
Rupert P. Amann, Ph.D.*
Animal Reproduction and Biotechnology Laboratory
Colorado State University
Fort Collins, CO 80523-1683
USA

Janice L. Bailey, Ph.D.
Centre de recherche en biologie de la reproduction
Faculté des sciences de l’agriculture et de l’alimentation
Pavillon Paul-Comtois, local 4147
Université Laval
Québec, QC G1K 7P4
Canada

Terry R. Brown, Ph.D.*
Division of Reproductive Biology
Department of Biochemistry and Molecular Biology
Bloomberg School of Public Health
Johns Hopkins University
Baltimore, MD 21205
USA

Mary S. Croughan, Ph.D.
Ob/Gyn Women’s Health Clinical Research University of California at San Francisco
Box 1793, 1635 Divisadero St. 601
San Francisco, CA 94143-1793
USA

Janice P. Evans, Ph.D.
Division of Reproductive Biology
Department of Biochemistry and Molecular Biology
Bloomberg School of Public Health
Johns Hopkins University
Baltimore, MD 21205
USA

Marc Goldstein, M.D.
Cornell Institute for Reproductive Medicine
Weill-Cornell Medical College
Box 580, 525 E 68th Street
New York, NY 10065
USA

Mary Ann Handel, Ph.D.
The Jackson Laboratory
600 Main Street
Bar Harbor, Maine 04609
USA

Barry T. Hinton, Ph.D.*
Department of Cell Biology
University of Virginia Health Sciences Center
PO Box 800732
School Of Medicine #439
Charlottesville, VA 22908
USA

Wayne J.G. Hellstrom, M.D.*
Tulane University School of Medicine
Department of Urology
New Orleans, LA 70112
USA

Barbara F. Hales, Ph.D.
Department of Pharmacology and Therapeutics
McGill University
3655 Promenade Sir-William-Osler
Montreal, QC H3G 1Y6
Canada

Ilpo Huhtaniemi, M.D., Ph.D.
Imperial College London
London W120NN
UK

Géraldine Delbès, Ph.D.
Department of Pharmacology and Therapeutics
McGill University
3655 Promenade Sir-William-Osler
Montreal, QC H3G 1Y6
Canada

Duane L. Garner, Ph.D.
Department of Animal Biotechnology
University of Nevada, Reno
Reno, NV 89557
USA

Janice P. Evans, Ph.D.
Division of Reproductive Biology
Department of Biochemistry and Molecular Biology
Bloomberg School of Public Health
Johns Hopkins University
Baltimore, MD 21205
USA

Marc Goldstein, M.D.
Cornell Institute for Reproductive Medicine
Weill-Cornell Medical College
Box 580, 525 E 68th Street
New York, NY 10065
USA

Mary Ann Handel, Ph.D.
The Jackson Laboratory
600 Main Street
Bar Harbor, Maine 04609
USA

Barry T. Hinton, Ph.D.*
Department of Cell Biology
University of Virginia Health Sciences Center
PO Box 800732
School Of Medicine #439
Charlottesville, VA 22908
USA

Wayne J.G. Hellstrom, M.D.*
Tulane University School of Medicine
Department of Urology
New Orleans, LA 70112
USA

Ilpo Huhtaniemi, M.D., Ph.D.
Imperial College London
London W120NN
UK
Handbook of Andrology – List of Contributors

Nigel Hunt, Ph.D.
Institute of Work, Health and Organisations
University of Nottingham
Floor B, International House Jubilee Campus, Wollaton Road Nottingham NG8 1BB UK

Dolores Lamb, Ph.D.*
Scott Department of Urology
Baylor College of Medicine
Houston, Texas 77030 USA

Sue McHale, Ph.D.
Faculty of Development and Society Sheffeld Hallam University Collegiate Crescent Campus Sheffield S10 2BP UK

Robert I. McLachlan, Ph.D.
Prince Henry’s Inst of Med Res Level 4, Block E Monash Medical Centre 24 Clayton Rd Clayton, Victoria 3168 Australia

Kevin T. McVary, M.D.
Department of Urology Feinberg School of Medicine Northwestern University School of Medicine Chicago, IL 60611 USA

Marvin L. Meistrich, Ph.D.
Department of Experimental Radiation Oncology University of Texas M. D. Anderson Cancer Center Unit 066, 1515 Holcombe Blvd. Houston, TX 77030-4009 USA

Alvaro Morales, M.D.
Department of Urology Centre for Applied Urological Res Queen's University Kingston, ON K7L 2V7 Canada

Abraham Morgentaler, M.D.
Men’s Health Boston Harvard Medical School One Brookline Place, Suite #624 Brookline, MA 02445-7224 USA

Makoto Nagano, Ph.D.
Department of Obstetrics and Gynecology The Research Institute of the McGill University Health Centre McGill University 687 Pine Avenue West Montreal QC H3A 1A1 Canada

Falk Ochsendorf, M.D., Ph.D.
Zentrum Dermatologie und Venerologie Klinikum der J.W.Goethe-Universität Frankfurt Theodor-Stern-Kai 7 60590 Frankfurt Germany

Vassilios Papadopoulos, Ph.D.
Departments of Medicine and of Pharmacology and Therapeutics The Research Institute of the McGill University Health Centre McGill University 1650 Cedar Avenue Montreal, QC H3G 1A4 Canada

Sally D. Perreault, Ph.D.*
US Environmental Protection Agency Mail Drop E205-09 Research Triangle Park NC 27711 USA

Tony M. Plant, Ph.D.
University of Pittsburgh School of Medicine Dept. of Cell Biology and Physiology Magee-Womens Research Institute 204 Craft Avenue, Room B311 Pittsburgh, PA 15213 USA

Mathew C. Raynor, M.D.
Department of Urology Tulane Health Sciences Center 1430 Tulane Avenue New Orleans, LA 70112 USA

Susan A. Rothmann, Ph.D.
Fertility Solutions Inc. 11811 Shaker Blvd., Suite 330 Cleveland, OH 44120 USA

D.J. Parekh, M.D.
Department of Urology The University of Texas Health Science Center at San Antonio San Antonio TX 78229 USA

Phillip M. Pierorazio, M.D.
James Buchanan Brady Urological Institute Johns Hopkins Medical Inst. Baltimore, MD 21287 USA

Gail S. Prins, Ph.D.* Department of Urology, MC 955 University of Illinois at Chicago 820 South Wood Street Chicago, IL 60612 USA

Kenneth Roberts, Ph.D.
Department of Urology School of Medicine 320N Health Sciences Building PO Box 1495 Spokane, WA 99210 USA

Peter N. Schlegel, M.D.
Department of Urology New York Presbyterian Hospital/Weill Cornell Medical Center 525 East 68th Street New York, NY 10021 USA
Richard J. Sherins, M.D.*
Columbia Fertility Associates
2440 M Street North West, # 401
Washington, DC  20037
USA

Niels E. Skakkebæk, M.D.
Rigshospitalet, Department of Growth & Reproduction
GR 5064, Blegdamsvej 9
DK-2100 Copenhagen
Denmark

J. Lisa Tenover, M.D., Ph.D.*
Division of Geriatric Medicine
Wesley Woods Health Center
1841 Clifton Road NE
Atlanta, GA  30329-5102
USA

Jacquetta M. Trasler, M.D., Ph.D.
Department of Pediatrics
McGill University, MCH MUHC-RI
2300 rue Tupper
Montréal, QC  H3H 1P3
Canada

Thomas J. Walsh, M.D.
Department of Urology
University of Washington School of Medicine
1959 NE Pacific Street, # Bb667
Seattle, WA  98195-0001
USA

David W. Silversides, Ph.D.
Department of Veterinary Biomedicine
University of Montreal
St-Hyacinthe, QC  J2S 7C6
Canada

Ronald S. Swerdloff, M.D.*
Division of Endocrinology
Department of Medicine
Harbor-UCLA Medical Center and Los Angeles Biomedical Research Center
1000 W. Carson Street
Torrance, CA  90509
USA

I.M. Thompson, M.D.
Department of Urology
The University of Texas Health Science Ctr at San Antonio
7703 Floyd Curl Drive
San Antonio, TX  78229
USA

Robert S. Viger, Ph.D.
Laval University
Dept. of Ob/Gyn
2705 Laurier boulevard, T1-49
Centre de recherche CHUQ-CHUL
Quebec, QC  G1V 4G2
Canada

Christina Wang, M.D.*
Division of Endocrinology
Department of Medicine
Harbor-UCLA Medical Center and Los Angeles Biomedical Research Center
1000 W. Carson Street
Torrance, CA  90509
USA

William W. Wright, Ph.D.
Division of Reproductive Biology
Department of Biochemistry and Molecular Biology
Bloomberg School of Public Health
Johns Hopkins University
Baltimore, MD  21205
USA

Barry R. Zirkin, Ph.D.*
Division of Reproductive Biology
Department of Biochemistry and Molecular Biology
Bloomberg School of Public Health
Johns Hopkins University
Baltimore, MD  21205
USA

*Past President, American Society of Andrology
Forward by Philip Troen
Reprinted from the first edition of the Handbook of Andrology

“What a piece of work is a man”

Shakespeare, *Hamlet*, Act ii, scene 2, line 316

Why a handbook of andrology? Some handbooks are published to bring together multiple aspects of a diversified subject. Some handbooks are designed to present an overview of a rapidly expanding subject for those working in the field while other handbooks are intended to codify the progress already made. Although there are elements of each of these approaches in this handbook of andrology, our main purpose is to present to scientists/clinicians early in their careers the scope, importance, and excitement of our discipline.

What is andrology? Simplistically, one might say that andrology is to the male what gynecology is to the female. That is, andrology deals with matters affecting the male reproductive system. The earliest use of the term andrology, as reported by Mikko Niemi, appears to have been in 1891 in the *Journal of the American Medical Association*, reporting on the formation of the American Andrological Association. Little more was heard from that association and it was not until the latter half of this century that there emerged an andrology journal in 1969 and an active andrology organization, Comite Internacional de Andrologia, in 1970. In the quarter century since, there has been a veritable explosion of journals and publications, of societies and congresses, and of workshops and symposia devoted to andrology. Thus, we appear to be on a rapidly rising growth curve of knowledge and application in andrology. The scope of modern day andrology is strikingly indicated by the range of topics discussed in this handbook. Written by distinguished leaders in their fields, these topics were chosen to indicate the exciting breadth of andrology and the opportunity it holds for graduate students in the biological sciences, veterinary students, and medical students.

Why become an andrologist? In choosing a career one, first of all, tries to identify an area of interest. Then one looks at the opportunity to succeed and the likelihood of making a contribution. As an andrologist for 40 years, I can testify to the continued excitement and interest the discipline has held for me. As noted above, there has been a rapid escalation of growth so that our discipline now ranges from genetic studies to pubertal changes in the male and from infertility and assisted reproduction techniques to disorders of the prostate, sexual function and contraception. Advances in these and other areas have been made possible by a remarkable series of clinical studies and scientific discoveries using the classical disciplines of physiology, biochemistry, neuroscience, and molecular biology. As we have entered each new stage of understanding and science, there has been no waning of the stimulus that I and my colleagues experience. At the same time, because of the multidisciplinary nature of andrology, unsolved problems present themselves and the opportunities for advancement and success continue to expand. As Alexander Albert has noted, "Nature has experimented lavishly with the reproductive system." This fact provides both challenge and opportunity. Andrology covers a wide spectrum from before conception to aging. As you peruse this handbook, we hope you will appreciate the scope of the field and share our excitement in the study of andrology.
Handbook of Andrology

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B. Robaire and P. Chan

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38. What is the importance of psychosocial issues, counseling and psychotherapy in andrology?
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39. What is BPH?
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40. Are some men more susceptible to prostate cancer than others and why? What are the treatments and their effectiveness? What are the possibilities for improvements in therapy?
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