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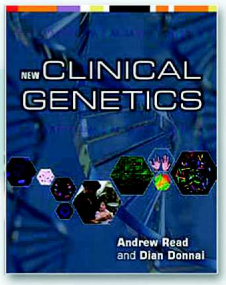
Announcing
New Clinical Genetics

By **Andrew Read** and **Dian Donnai,** *University of Manchester, UK*



"Conceptually brilliant!"

David N. Cooper, *Professor of Human Molecular Genetics, Cardiff University, UK*

Written for students, genetic counselors and clinical geneticists, *New Clinical Genetics* provides the reader with a concise summary of post-genomic human genetics and guidance as to how our current understanding can be utilized in clinical practice.

The authors have taken an integrated case-based approach to the subject. Realistic case scenarios are used throughout the text so that readers can gain a practical understanding of clinical cases, their diagnoses and treatment options.

The book is based on the requirements of the ASHG Medical School Core Curriculum which states that "every physician who practices in the 21st century must have an in-depth knowledge of the principles of human genetics and their application to a wide variety of clinical problems."

For details of how the book covers the core curriculum, please visit www.scionpublishing.com/newclinicalgenetics

With self-assessment questions, separate boxes containing diagnostic methods and approaches to common diseases, and over 300 clinical photograph and figures, the book is presented in a user-friendly manner to aid understanding.

2007, 428 pp., full-color throughout
Paperback $54.95
ISBN: 9781904842316

Contents

www.scionpublishing.com

About the authors

Andrew Read (PhD, FRCPath, FMedSci) is Professor of Human Genetics at the University of Manchester. He is co-author of Strachan and Read's *Human Molecular Genetics,* the leading advanced textbook on the subject. He established one of the first molecular genetic diagnostic services in the UK and has a long-standing interest in what genetic testing can and should achieve.

Dian Donnai (FRCP, FRCPCH, FMedSci) is Professor of Medical Genetics at the University of Manchester and Consultant Clinical Geneticist in the NW Regional Genetics Service. She is one of the world's leading authorities on clinical genetics, especially the study of dysmorphic syndromes, and is an advisor to many national and international bodies on the clinical application of genetics.

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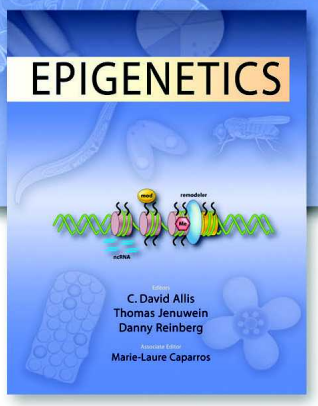
Epigenetics



Edited By C. David Allis, *The Rockefeller University, New York;* Thomas Jenuwein, *Research Institute of Molecular Pathology, Vienna;* Danny Reinberg, *Howard Hughes Medical Institute/University of Medicine and Dentistry of New Jersey–Robert Wood Johnson Medical School;* Marie-Laure Caparros, *Associate Editor*

The regulation of gene expression in many biological processes involves epigenetic mechanisms. In this new volume, 24 chapters written by experts in the field discuss epigenetic effects from many perspectives. There are chapters on the basic molecular mechanisms underpinning epigenetic regulation, discussion of cellular processes that rely on this kind of regulation, and surveys of organisms in which it has been most studied. Thus, there are chapters on histone and DNA methylation, siRNAs and gene silencing; X-chromosome inactivation, dosage compensation and imprinting; and discussion of epigenetics in microbes, plants, insects, and mammals. The last part of the book looks at how epigenetic mechanisms act in cell division and differentiation, and how errors in these pathways contribute to cancer and other human diseases. Also discussed are consequences of epigenetics in attempts to clone animals. This book is a major resource for those working in the field, as well as being a suitable text for advanced undergraduate and graduate courses on gene regulation.

2007, 502 pp., illus., appendices, index
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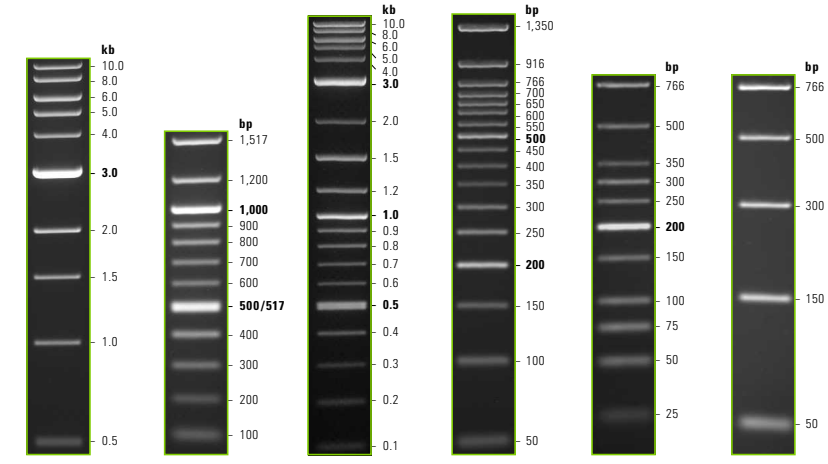

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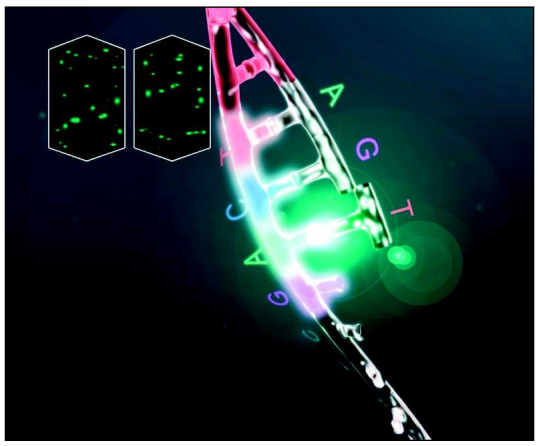

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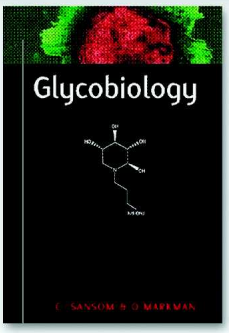

By **Clare Sansom**, *Birkbeck College, London, UK* and **Ofer Markman**, *NutriCognia, Israel*

This glycobiology book is truly unique. Produced to commemorate the 80th birthday of Nathan Sharon, *Glycobiology* is an essential reference tool for anyone working in the field.

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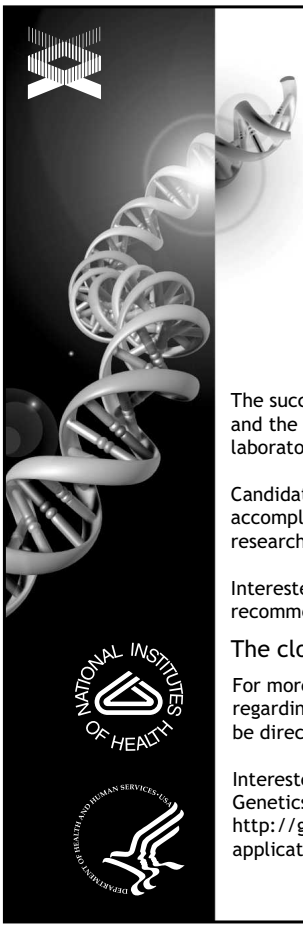

Investigator Recruitment in Genetic Disease Research

National Human Genome Research Institute

The Genetic Disease Research Branch (GDRB) of the National Human Genome Research Institute (NHGRI) is seeking to recruit outstanding tenure-track or tenured investigators to pursue innovative, independent research. GDRB faculty members are highly interactive and use a variety of approaches to study the genes and proteins involved in normal development and related disease processes. Investigators in the Branch are currently engaged in studies of limb and skeletal development, pigment cell development and neurocristopathies, T-cell development, function, and defects in host defense; and the role of rare variants in common disease. Of particular interest are candidates with backgrounds in one or more of the following areas:

- **Clinical or translational research**
- **Molecular and genomic approaches to understanding the mechanisms of disease**
- **Basic genetic or genomic research**

The successful candidate will be able to take advantage of interactions with a highly collegial group of scientists within NHGRI and the NIH campus as a whole. In addition, the successful candidate will have access to NHGRI's outstanding core laboratories, as well as the unparalleled resources of the NIH Clinical Center.

Candidates must have a Ph.D., M.D., or equivalent degree, as well as comprehensive, advanced training and a record of accomplishment in one of the targeted areas. This position includes a generous start-up allowance, an ongoing commitment of research space, laboratory resources, and positions for personnel and trainees.

Interested applicants should submit a curriculum vitae, a three-page description of proposed research, and three letters of recommendation through our online application system, at http://research.nhgri.nih.gov/apply.

The closing date for applications is November 16, 2007.

For more information on GDRB and NHGRI's Intramural Program, please see http://genome.gov/DIR. Specific questions regarding the recruitment may be directed to Dr. William Pavan, the Search Chair, at bpavan@nhgri.nih.gov. Questions may also be directed to Dr. Leslie Biesecker, the GDRB Branch Chief, at leslieb@nhgri.nih.gov.

Interested applicants should also be aware of two concurrent tenure-track faculty searches being conducted by NHGRI's Cancer Genetics Branch (CGB) and Genetics and Molecular Biology Branch (GMBB). Information on these searches may be found at http://genome.gov/11509039. Qualified candidates are welcome to apply for multiple searches; please note that a separate application must be filed for each search for which you wish to be considered.

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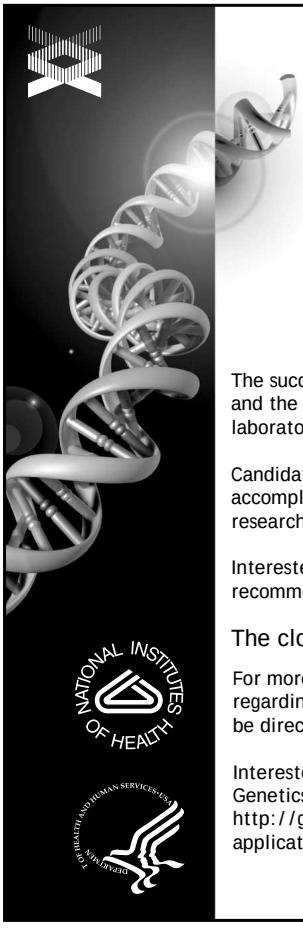

Investigator Recruitment in Genetics and Molecular Biology

National Human Genome Research Institute

The Genetics and Molecular Biology Branch (GMBB) of the National Human Genome Research Institute (NHGRI) is seeking to recruit outstanding tenure-track investigators to pursue innovative, independent research. The faculty within GMBB are highly interactive and use a variety of approaches to understand and develop new treatments for genetic and complex diseases. Current areas of research include hematopoiesis, the genetic disorders of red blood cells, cellular immunology, gene therapy, leukemogenesis, genomic instability in disease, the genetics of skin diseases, and the genomics of the skin microbiome. Of particular interest are candidates with research interests in the following areas:

- **Clinical genetics**
- **Clinical/translational research**
- **Basic genetic/genomics research**
- **Application of genomics tools to understanding human disease**

The successful candidate will be able to take advantage of interactions with a highly collegial group of scientists within NHGRI and the NIH campus as a whole. In addition, the successful candidate will have access to NHGRI's outstanding core laboratories, as well as the unparalleled resources of the NIH Clinical Center.

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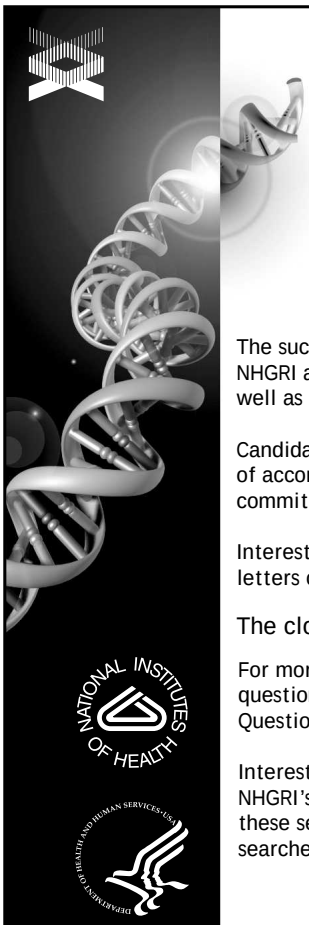

Investigator Recruitment in Cancer Genetics

National Human Genome Research Institute

The Cancer Genetics Branch (CGB) of the National Human Genome Research Institute (NHGRI) is seeking to recruit an outstanding tenure-track investigator to pursue innovative, independent research in cancer genetics. General areas of interest include, but are not limited to:

- **Cancer Gene Discovery**
- **Comparative Cancer Genomics**
- **Genetic Epidemiology**
- **Molecular Profiling of Tumors**
- **Functional Genomics of Cancer**
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MOLECULAR EVOLUTION

February 3-8, 2008
Crowne Plaza, Ventura, CA

http://www.grc.org/programs.aspx?year=2008&program=molecevo

This biennial Gordon Research Conference on Molecular Evolution draws scientists from a diversity of fields and promotes interactions between evolutionary and population genetics, genomics, computational biology, developmental biology, molecular biology, ecology, microbial physiology, and medical genetics and epidemiology.

The goal of this conference is to bring together representatives from this diversity of research areas to examine the most recent findings on the molecular bases of evolution. Molecular evolution underlies much of comparative genomics, informs models of computational biology, and provides a framework for understanding evolution of development and complex systems. The small size of the conference (restricted to 130 participants) and the location (on the beach in sunny Ventura, CA), coupled with the large blocks of time set aside for informal discussion are all critical features to the ongoing success of this conference. The following sessions and speakers have been confirmed:

Exploring Adaptive Landscapes
Ben Kerr (University of Washington)
Tony Dean (University of Minnesota)
Dan Weinreich (Brown University)

Measuring Evolutionary Timescales with classes of molecular markers
Bret Payseur (University of Wisconsin at Madison)
Asher Cutter (University of Toronto)
Joanna Mountain (Stanford University)

Molecular Basis of Heart Evolution
Doug Crawford (University of Miami)
Brad Davidson (University of Arizona)
Jose Xavier–Neto (Universidade de Sáo Paulo)
Nadia Rosenthal

Positive and Negative Selection on Noncoding DNA
Peter Andolfatto (Univ. of California at San Diego)
Manolis Dermitzakis (The Wellcome Trust, Sanger Institute)

Evolvability
Günter Wagner (Yale University)
Lilach Hadany (University of Iowa)
Suzannah Rutherford (Fred Hutchison Cancer Research Center)
Susan Rosenberg (Baylor College of Medicine)

Molecular Evolution of Body Axes
Mike Levine (University of California at Berkeley)
Elaine Seaver (University of Hawaii)
Mark Martindale (University of Hawaii)
John Gerhart (University of California at Berkeley)

Computational and Statistical Advances
Sudir Kumar (Arizona State University)
David Haussler (Univ. of California at Santa Cruz)
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