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Jan Witkowski has been Executive Director of the Banbury Center at Cold Spring Harbor Laboratory since 1987, and a Professor in the Watson School of Biological Sciences since its opening in 1998. As director of the Banbury Center, he is responsible for the topics and organization of over 20 discussion meetings each year, covering topics in molecular and cell biology, human genetics, neuroscience, biotechnology, and societal issues of biomedical research. Dr. Witkowski has been a member of the Watson School's Executive Committee and was lead instructor of the *Scientific Ethics and Exposition* course.

He was educated at Handsworth Grammar School, Birmingham, UK, obtained his B.Sc. in Zoology at the University of Southampton, UK, and his Ph.D. in biochemistry at the National Institute for Medical Research, London, UK. He then carried out research on Duchenne muscular dystrophy at the Royal Postgraduate Medical School, London, and at the Mayo Clinic, Minnesota. In 1984, Dr. Witkowski went to the Imperial Cancer Research Fund in London to pursue research on cancer-causing genes. In 1986, he was invited to join the Institute for Molecular Genetics, Baylor College of Medicine, Houston, where he ran a laboratory performing DNA-based diagnosis of human genetic diseases.

Dr. Witkowski has published numerous papers on human genetics and the history of experimental biology and is editor-in-chief of *Trends in Biochemical Sciences*.

Together with his colleague Alex Gann, he has published a new edition of Dr. Watson's classic book *The Double Helix*. *The Annotated and Illustrated Double Helix* reproduces the original text and is enhanced with over 350 photographs and notes giving the back stories of the people and events described in the book.

He is a coauthor with Dr. James D. Watson of the second and third editions of the textbook *Recombinant DNA: A Short Course* and contributed to Dr. Watson's *DNA: The Secret of Life*. He has edited seven other books.

PERSONAL

Name:	JAN ANTHONY WITKOWSKI
Date of birth:	January 25th 1947
Nationality:	British (Resident Alien in the USA)
Place of birth:	Birmingham, United Kingdom
Family:	Married, two children
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PRESENT APPOINTMENT

2002- Present — Executive Director of the Banbury Center, Cold Spring Harbor Laboratory.
Responsibilities: determining topics for meetings at the Banbury Center and interacting with the organizers; organizing meetings for congressional staff workers and science journalists; assisting with the publication of meetings.

1987-2002 — Director of the Banbury Center, Cold Spring Harbor Laboratory.

1998-Present — Professor, Watson School of Biological Sciences
Responsibilities: *Topics in Biology Course* – co-organizer; *Scientific Exposition & Ethics Course*, instructor 1999-2005, lead instructor, 2006-2007; Member, Executive Committee 1997-2003.

OTHER ACTIVITIES–CSHL

Co-director, Cold Spring Harbor Laboratory Corporate Sponsor program
Responsibilities: administering program that raises over $500,000 per year for underwriting the costs of the meetings programs at the Laboratory.

PREVIOUS APPOINTMENTS

1986-1987	Director, Kleberg DNA Diagnostic Laboratory; Assistant Professor, Institute for Molecular Genetics, Baylor College of Medicine, Houston.
1982-1986	Lecturer, Department of Paediatrics, Royal Postgraduate Medical School, University of London
1977-1982	Research Fellow, Institute of Child Health, University of London
1976-1977	Research Fellow, Mayo Clinic, Minnesota
1972-1976	Research Fellow, Institute of Child Health, University of London
1968-1972	Junior technical officer, National Institute for Medical Research, London

EDUCATION

1968-1972	Ph.D., Biochemistry, University of London. Thesis: Some effects of serum on the growth of human diploid cells. Supervisor: Dr. W. D. Brighton. The work was carried out in the Division of Immunological Products Control, National Institute for Medical Research, London.
1965-1968	B.Sc. Hons. Zoology, University of Southampton. Specialist third year topics: cell biology and developmental biology. Subsidiary subjects: chemistry (1st year*).* and physiology and biochemistry (1st & 2nd years*).* Third year project: nutrition of chick embryos maintained in organ culture.
1958-1965	Handsworth Grammar School, Birmingham, UK.

AWARDS AND FELLOWSHIPS

1984-1986	Medical Research Council Special Training Fellowship in Recombinant DNA technology. Molecular Oncology Laboratory (Dr. Gordon Peters), Imperial Cancer Research Fund, London. Project: reconstruction of the mouse oncogene *int-2* in a retroviral vector for expression in mammalian cells.
1982	Royal Society Grant for Research in the History of Science, for a study of the changing views on cell aging *in vitro.*
1980	Wellcome Trust Travel Grant to carry out historical research on the origins and development of tissue culture.

1976-1977 Muscular Dystrophy Association of America Research Fellow. Department of Neurology (Dr. A. Engel), Mayo Clinic, Minnesota.

PREVIOUS RESEARCH INTERESTS

These include:

- application of recombinant DNA techniques to the human genetic disorders, in particular for the detection of carriers of such disorders and for prenatal diagnosis. My laboratory at Baylor College of Medicine was the MDA National Referral Center for the diagnosis of Duchenne muscular dystrophy dealing with about 1500 samples per year. In addition, we performed testing for the hemophilias, sickle cell disease, myotonic muscular dystrophy, etc.
- studies of the MMTV-activated mouse oncogene int-2, using a retroviral vector.
- problems of image analysis in relation to analyzing two-dimensional gel electrophoresis patterns and the analysis of spatial point patterns on freeze-fracture specimens.
- studies of the cell surface using assays of cell adhesiveness, biochemical techniques and freeze-fracture electron microscopy.
- tissue culture studies of human muscle: determining the optimal conditions for growth of myogenic cells; regeneration of human muscle fibers in tissue culture; studies of combined cultures of diseased human muscle cells with embryonic mouse spinal cord cells; measurements of protein turnover in normal and dystrophic cells in tissue culture.
- effects of serum on the growth and behavior of human diploid cells in tissue culture.

OTHER RELEVANT EXPERIENCE

I have taken part in discussion groups and interviews on television, including CNN, and given many talks to non-scientists. At one time, I had a reasonable knowledge of statistics and some programming skills. I wrote the Banbury Center web site.

MEMBERSHIP COMMITTEES ETC.

- Science and Public Leadership Advisor, PopTech (2009-)
- New York State Bar Association Task Force on Wrongful Convictions, Consultant (2009-2010)
- Bioinformatics Advisory Committee, Biological Sciences Curriculum Study (2001-2002)
- Fred Friendly Seminars, "Our Genes/Our Choices" Advisory Board (2001-2002)
- Advisory Council, James A. Baker Institute for Animal Health, Cornell University (1998-)
- Member, The MAD Scientist Network (1997-)
- National Park Service, Letterman (Presidio, San Francisco*).* Design Group (1993-1994)
- New York State Scientific Review Board - DNA Fingerprinting in Forensic Science (1992-1993)
- National Research Council: Committee on Sharing Laboratory Resources (1992-93)
- Member, The Dana Alliance for Brain Initiatives (1992-)
- New York State Panel to Study "Genetic Fingerprinting" (1988-1989)

EDITORIAL WORK

- Editor-in-Chief, *Trends in Biochemical Sciences*
- Editor of "Reflections" column in *Trends in Biochemical Sciences*
- Former member of the editorial board of *The Journal of NIH Research*
- Former member of the editorial board of *Genes & Development* 1988 to 1991.
- Special Advisor, *Encyclopedia of the Life Sciences,* Macmillan Reference Ltd.

REVIEWING

I have reviewed papers and books for the following journals:

American Journal of Human Genetics; The Biochemist; Bio/Technology; Clinical Science; Experimental Cell Research; Endeavour; FASEB Journal; Genes & Development; Genome Research; The Harbor Transcript; Histochemical Journal; Journal of the Neurological Sciences; Journal of Neuropathology & Applied Neurobiology; The Lancet; Medical History; Muscle & Nerve; Nature; Nature Genetics; Pediatric Research; Proceedings of the National Academy of Science; Proteomics; Science; Trends in Biotechnology; Trends in Biochemical Sciences; Trends in Biotechnology; Trends in Genetics.

ORGANIZATION OF MEETINGS

I oversee and to varying degrees help organize the twenty to twenty-four meetings held each year at Banbury Center. These have included meetings on genetics, as well as workshops for congressional staff, science journalists, and senior executives in the biotechnology and pharmaceutical industries.

LECTURING EXPERIENCE

- Lectures in the B.Sc. Biochemistry course at Charing Cross Hospital Medical School
- Lectures in the B.Sc. Cell biology course at Middlesex Hospital Medical School
- Numerous talks on muscular dystrophy for the Muscular Dystrophy Group of Great Britain
- Talks at symposia and seminars on topics in the history of experimental biology
- Talks on the societal implications of human molecular genetics, including DNA fingerprinting

MEMBERSHIP OF SOCIETIES

- The Biochemical Society
- National Association of Science Writers
- American Association for the Advancement of Science
- International Society for the History, Philosophy & Social Studies of Biology

BIOGRAPHICAL NOTES

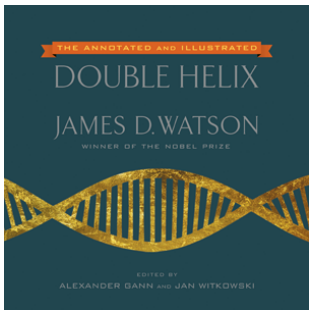
My interest in science began with collecting butterflies and moths, and later bugs and dragonflies because they were more diverse and less popular. I still take pleasure in looking for and trying to identify insects. However, a term of drawing skulls in the Department of Zoology museum convinced me that I was not going to become a zoologist. Instead I became fascinated by the development of embryos and the movements of cells. I worked for many years on the cell biology and biochemistry of Duchenne muscular dystrophy before learning the techniques of recombinant DNA, and then embarking on DNA-based diagnosis of inherited diseases. I have become increasingly interested in the interrelationship between scientific research and society, especially in the area of genetics.

I have a major interest in the history of science, especially topics relating to the development of experimental biology in the latter part of the 20th century. I have published papers dealing with biochemical, embryological and tissue culture studies, and recent developments in molecular biology and genetics.

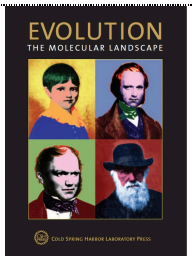
I used to be a keen rock climber, leading hard very severe grade (equivalent to American 5.8/5.9*).* This activity was curtailed by family responsibilities and by the absence of rock on Long Island. I enjoy music greatly, ranging from Dylan, the Rolling Stones and Yazoo, through Brahms, Dvorak, and Mahler, to Bellini, Donizetti and Verdi, and especially the bel canto singing of Joan Sutherland. My favorite authors include George Eliot, Charles Dickens, Henry James, Lawrence Durrell, Mervyn Peake and Iris Murdoch.

PUBLICATIONS

Books



Watson, J. D., Gann, A. and **Witkowski, J. A.** *The Annotated and Illustrated Double Helix.* Cold Spring Harbor Laboratory Press and Simon & Schuster, 2012



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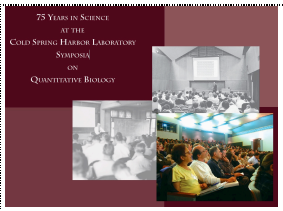

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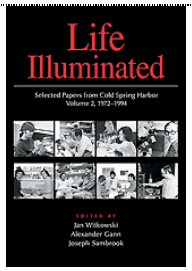

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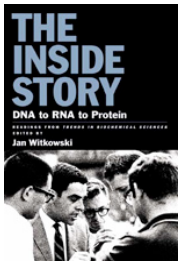

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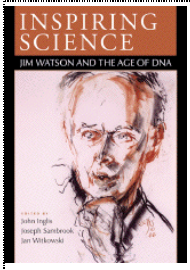

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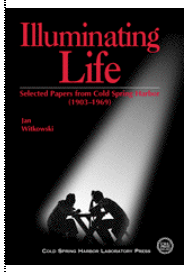

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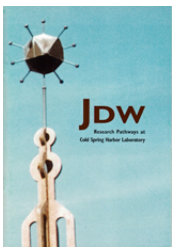

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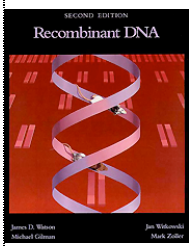

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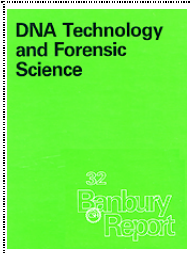

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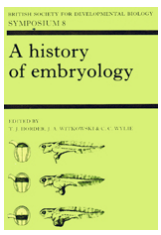

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Papers, reviews and correspondence

History of Science

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Witkowski, J. A. (2010) Origins & History; Biophysics; DNA; Developmental Biology; Venues – Racker, Bush, Grace; Lectures & Dinner Parties; J. C. Foothills; The Snapshots. Essays in *75 Years in Science at the Cold Spring Harbor Symposium on Quantitative Biology*, Witkowski, J. A. (ed.)

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Research and Science-related

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Bush, K. et al. (2011). Tackling antibiotic resistance. *Nat. Rev. Microbiol.* 9: 894-896.
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Co-editor and writer, *Image Archive on the American Eugenics Movement*
http://www.eugenicsarchive.org/eugenics/
Scientific editor, *DNA from the Beginning: An Animated Primer on the Basics of DNA, Genes and Heredity*
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EXHIBITIONS

Places & Spaces: Mapping Science, New York Public Library, HistCite™ Visualization of DNA Development, by Eugene Garfield (HistCite), Elisha Hardy and Katy Börner (Graphic Design), Ludmila Pollock (Images). and **Jan Witkowski** (Text)
Advisory Committee, New York Public Library: Seeking the Secret of Life: The *DNA Story in New York*
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