

## **JOHN E. DOWLING**

### **PERSONAL**

Born: August 31, 1935; Pawtucket, Rhode Island, USA

### **EDUCATION**

Harvard College, A.B., 1957 (Biology)  
Harvard Medical School, 1957-1959  
Harvard University, Ph.D., 1961 (Biology)

### **HONORS AND AWARDS**

Friedenwald Medal, Association for Research in Vision and Ophthalmology, 1970;  
Edridge-Green Lecturer, Royal College of Surgeons of England, 1971; Trustee, Marine Biological Laboratory, Woods Hole, 1970-1979, 1986-1990; Fellow, American Academy of Arts and Sciences, 1972-; Associate, Neuroscience Research Program, 1975-1985; Member, National Academy of Sciences, 1976-; Guggenheim Fellow, 1978-1979; Annual Award, New England Ophthalmological Society, 1979; Fellow, American Association for the Advancement of Science, 1981-; Retina Research Foundation Award of Merit, 1981; M.D. (Hon.) University of Lund, Sweden, 1982; Alcon Research Institute Recognition Award, 1986; National Eye Institute MERIT Award, 1987; Prentice Medal, American Academy of Optometry, 1991; Member, American Philosophical Society, 1992-; Von Sallman Prize, 1992; Taylor Smith Orator, New England Ophthalmological Society, 1993; The Helen Keller Prize for Vision Research, 2000; Llura Liggett Gund Award for Lifetime Achievement and Recognition of Contribution to Foundation Fighting Blindness, 2001.

### **POSITIONS**

Llura and Gordon Gund Professor of Neurosciences	2001-
Harvard College Professor Harvard University	1999-2004
Co-director, Neural Development and Genetics of Zebrafish Course Marine Biological Laboratory	1998-2001
Maria Moors Cabot Professor of Natural Science Harvard University	1987-2001
Professor of Ophthalmology (Neuroscience) Harvard Medical School	1986-

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**POSITIONS (continued)**

Master, Leverett House Harvard University	1981-1998
Associate Dean of the Faculty of Arts and Sciences Harvard University	1980-1984
Acting Master, North House Harvard University	1979-1980
Overseas Fellow, Churchill College Cambridge, England	1978-1979
Chairman, Department of Biology Harvard University	1975-1978
Professor of Biology Harvard University	1971-1987
Co-director, Neurobiology Course Marine Biological Laboratory	1970-1974
Lecturer, Lancaster Course in Ophthalmology	1961-1971; 1991
Associate Professor of Ophthalmology & Biophysics Johns Hopkins University	1966-1971
Assistant Professor of Ophthalmology Johns Hopkins University	1964-1966
Assistant Professor of Biology Harvard University	1961-1964
Instructor, Department of Biology Harvard University	1961

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## **MAJOR BOARDS, COUNCILS, AND COMMITTEES**

### **Current**

Trustee, Massachusetts Eye and Ear Infirmary, 1986-.  
Scientific Advisory Board, Foundation Fighting Blindness, 1971-.  
Scientific Advisory Board, Knights Templar Eye Foundation, 1991-.  
Educational Advisory Board, John S. Guggenheim Memorial Foundation, 1991-.  
Scientific Advisory Board, Center for Neural Science, New York University, 1992-.  
Scientific Advisory Board, Central Institute for the Deaf, 1994-.  
Board of Directors, Alliance for Eye and Vision Research, 1995-.  
Board of Directors, Harvard University Press, 1997-.  
Scientific Advisory Board, Doreen Grace Fund and The Brain Center, 1999-.  
Advisory Board, Bunting Institute, Radcliffe College, 1999-.  
Board, Office for the Public Understanding of Science, National Research Council, 1999-.  
Board of Directors, American Association for the Advancement of Science, 2004-.  
Co-Chair, Faculty Standing Committee on Mind, Brain and Behavior, Harvard University, 1998-.  
President of the Corporation, Marine Biological Laboratory, 1998-.  
Chairman of the Board of Governors, Association for Research in Ophthalmology and Vision Foundation, 2001-.

### **Past, 1980-**

President, Association for Research in Vision and Ophthalmology, 1996-1997.  
Council, National Academy of Sciences, 1993-1996.  
Council, Faculty of Arts and Sciences, Harvard University, 1993-1995.  
Chairman, FASEB Summer Conference on Biology, Chemistry and Modeling of Vision, 1992.  
Trustee, Association for Research in Vision and Ophthalmology, 1991-1998.  
Medical Advisory Board, Howard Hughes Medical Institute, 1989-1992.  
Council, National Eye Institute, 1986-1990.  
Executive Committee, Marine Biological Laboratory, 1974-1976; 1988-1990.  
Scientific Advisory Board, Whitney Marine Laboratory, 1986- 1991.  
Chairman, Commission on Life Sciences, National Research Council, 1985-1988.  
Governing Board, National Research Council, 1985-1988; 1994-1997.  
Council, Society of Neuroscience, 1980-1984.  
Associate Editor for Cellular Neurobiology, Journal of Neuroscience, 1989-1994.  
Scientific Advisory Board, Research to Prevent Blindness, 1991-1999.  
Editorial Board, Physiological Reviews, 1994-2000.  
Co-chair, *Ad hoc* Faculty of Arts and Sciences Committee on Women in Science, Harvard University, 2000-2002

## **JOHN E. DOWLING**

### **PUBLICATIONS**

#### **Books**

Dowling, J. E. *The Retina: An Approachable Part of the Brain* (1987) Harvard University Press, Cambridge, MA.

Dowling, J. E. *Neurons and Networks: An Introduction to Neuroscience* (1992) Harvard University Press, Cambridge, MA.

Dowling, J. E. *Creating Mind: How the Brain Works* (1998) W. W. Norton & Co., New York, NY.

Dowling, J. E. *Neurons and Networks: An Introduction to Behavioral Neuroscience*, 2<sup>nd</sup> edition, (2001) Harvard University Press, Cambridge, MA.

Dowling, J. E. *The Great Brain Debate: Nature or Nurture?* (2004) Joseph Henry Press, Washington, D. C.

#### **Volumes Edited**

Wald, G., Hopkins III, J., Albersheim, P., Dowling, J. E., and Denhardt, D. (eds), *Twenty-six Afternoons of Biology*, (1962), Addison-Wesley, Reading, MA.

Shiple, T. and Dowling, J.E. (eds.), *Visual Processes in Vertebrates* (1971) Vision Res. Suppl., Vol. 11, Pergamon Press, Oxford.

Landers, M.B., Wolbarsht, J. L., Dowling, J. E. and Laties, A. M. (eds.) *Retinitis Pigmentosa: Clinical Implications of Current Research* (1977) Plenum Press, New York.

Poppel, E., Held, R. and Dowling, J. E. (eds.) *Neuronal Mechanisms in Visual Perceptions* (1977) Neuroscience Res. Prog. Bull., Vol. 15, M.I.T. Press, Cambridge, MA.

Cone, R. A. and Dowling, J. E.(eds.) *Membrane Transduction Mechanisms* (1979) Society of General Physiologists, Raven Press, New York.

Dowling, J. E., Proenza, L. M. and Atwell, C. W. (eds.) *Nutrition, Pharmacology and Vision*, Proceedings of a Symposium Sponsored by the Committee on Vision of the National Research Council (1982) Retina, Vol. 2, pp. 231-380.

Dowling, J. E., Kolb, H., Miller, R. and Tomita, T. (eds). *Retinal Neurocircuitry, with Special Reference to Synaptic Transmission*, Proceedings of the 4th Taniguchi International Symposium on Visual Science (1983), Vision Res., Vol. 23, Pergamon Press, Oxford.

Dowling, J. E., Kolb, H. and Wässle, H. (eds.) *Proceedings of the Brian Boycott Festschrift* (1991), Visual Neuroscience, Vol. 7 No. 1/2, Cambridge University Press, Cambridge, England

Barlow, R., Dowling, J. E. and Weissmann, G. (eds.) *The Biological Century*, Harvard University Press, 1992.

239 laboratory publications to date