

RICHARD R. BURGESS

Born: September 8, 1942, Mt Vernon, Washington; grew up in Seattle, WA

Education:

Caltech, Pasadena, CA 1960-1964, B.S., with honors, in Chemistry, June 1964, research with Professor Robert L. Sinsheimer

Harvard University, Cambridge, MA, 1964-1969, Ph.D. in Biochemistry & Molecular Biology, June 1969 with Professor James D. Watson

Postdoctoral Training, Institute of Molecular Biology, University of Geneva, Geneva, Switzerland, 1969-1971, with Professor Alfred Tissières

Positions Held:

James D. Watson Professor of Oncology, McArdle Laboratory for Cancer Research, University of Wisconsin-Madison, Madison, Wisconsin, 2001-2008; Emeritus Professor, 2009-present

Professor of Oncology, McArdle Laboratory for Cancer Research, 1982-2001

Associate Professor of Oncology, McArdle Laboratory for Cancer Research, 1977-1982

Assistant Professor of Oncology, McArdle Laboratory for Cancer Research, 1971-1977

Visiting Professor, Acting Director of Biochemistry, Genetic Systems Corp, Seattle, Washington, 1983-1984

Director, University of Wisconsin Biotechnology Center, Madison, Wisconsin, 1984-1996

Visiting Professor, Walter and Elisa Hall Institute, Melbourne, Australia, January-March 2004

Visiting Professor, University of California-San Francisco, January-February 2013

Major Research Interests: The mechanism of RNA synthesis and the control of gene expression. RNA polymerases and transcription factors. Production and use of monoclonal antibodies in biochemistry, especially for use in gentle immunoaffinity chromatography. Techniques for protein purification and characterization. Refolding of insoluble overproduced proteins. Protein biotechnology and applied enzymology. Target-based drug discovery. Studying weak protein-protein interactions.

Honors:

Recipient, Chemical and Engineering News Award from the American Chemical Society for Outstanding Chemistry Major at Caltech, June 1964

NSF Predoctoral Fellow, Harvard University, 1964-1969

Helen Hay Whitney Foundation Postdoctoral Fellowship, Geneva, Switzerland, 1969-1971

Recipient, 1982 Pfizer Award for Outstanding Contributions in Enzyme Chemistry

Guggenheim Foundation Fellowship for July 1983 to June 1984 to study monoclonal antibody technology and protein purification in Seattle, Washington

United States Department of Agriculture Honor Award for work in developing Biopulping, an environmentally friendly technology, June 1997

Presented the Waksman Medal, Rutgers University, for discovery of sigma factor, December 1999

Named James D. Watson Professor of Oncology at UW-Madison, January 2001

Elected Fellow, American Academy of Microbiology, April 2003

Elected Fellow, American Association for the Advancement of Science (AAAS), November 2008

Received University of Wisconsin Alumni Entrepreneurial Achievement Award, April 2013

Honorary Degree, Doctor of Science, *honoris causa*, Cold Spring Harbor Laboratory Watson School of Biological Sciences, May 2014

Received the Wisconsin Medical Alumni Association Basic Sciences Emeritus Faculty Award, April 2017

Elected Fellow of the Wisconsin Academy of Sciences, Arts, and Letters, January 2020

Professional Activities:

Member, NSF Study Section on Biophysics & Biochemistry, 1979, 1981-1984; Ad hoc member, NIH Study Section on Physiological Chemistry, 1977. NCI Site visit for review of internal NCI program, 1997

Member, Editorial Board, THE JOURNAL OF BIOLOGICAL CHEMISTRY, 1979-1984. BIOCHIMICAL ET BIOPHYSICAL ACTA, 1983-1988. GENE ANALYSIS TECHNIQUES, 1983-2003. BIOCHEMIE, 1988-2002

Executive Editor, PROTEIN EXPRESSION AND PURIFICATION, 1989-1999; Editor-In-Chief, 1999-2021
 Series Editor, UW Biotech Center Biotechnical Resources Series, Oxford Press, 1990-1996
 Ad Hoc manuscript reviewer, Proceedings of the National Academy of Sciences USA, Biochemistry, Molecular Microbiology, Gene, EMBO Journal, Journal of Biological Chemistry, Cell, Journal of Molecular Biology, Biotechnology Progress, Nucleic Acids Research
 Member, ASBMB, 1980; American Chemical Soc., 1981; AACR, 1983; Protein Soc., 1987; ASM, 1997
 Member, ASBMB Public Affairs Advisory Committee, 1987-1990
 Member, Board of Directors, Council of Biotechnology Centers, 1991-1993
 Chair, Board of Directors, Consortium for Plant Biotechnology Research. 1993-1996
 Selection Committee for Cetus-Chiron Biotech Award, 1990-93; DuPont Young Investigator Award 1998
 Member, National Research Council Committee on Biobased Industrial Products, 1994-1995
 Member, Evaluation Panel for HHMI Predoctoral Fellowships in Biological Sciences, 1995, 1997, 2000
 Co-Director, UW Biotechnology Center Biopulping Consortium, 1987-1996
 Organizer, Cetus-UCLA Symposium-Protein Purification: Micro to Macro, 1987. Keystone Symposium Protein Purification, 1993. FASEB Conference on Prokaryotic Transcription, 2001
 Member, National Academies Antimicrobial Therapeutics Brainstorming Workshop, 2005
 Member, External Evaluation Committee for the Academia Sinica, Taipei, Taiwan, May 2006
 Instructor, 2-week Cold Spring Harbor Course on Protein Purification and Characterization, April 1992-1995; Course Chair 1996-2013
 Instructor, NAS-HHMI Course on Protein-DNA Interactions, Vilnius, Lithuania, August 2003
 Instructor, EMBO Course, Protein Expression/Purification/Characterization, Hamburg Germany, September 2012
 Co-Editor (with Murray Deutscher) Methods in Enzymology, Volume 463: Guide to Protein Purification, 2nd Edition, Elsevier, November 2009
 Graduate Students from 1971 to 2012, 32 students received Ph.D. degrees, 9 received M.S. degrees under my supervision

Other Campus/State Activities:

Member, Biotechnology Training Program Steering Committee, 1988-2008
 Center for Biology Education: Co-founder and Member, Steering Committee, 1989-2005
 Member, UW-Madison Future Directions Committee, 1990
 Member, Advisory Committee for the Wisconsin Sea Grant Program, 1994-2008
 Member, UW-Madison Honorary Degree Committee, 1996-2001
 Member, Executive Committee, Molecular and Cellular Pharmacology Program, 2002-2008
 Member, UW-Madison Graduate School Conflict of Interest Committee, 1998-2008
 Member, University Committee, 6-person main group for university faculty governance, 1998-2001
 PROFS, UW Faculty lobbying organization, chairman of Board of Directors and President 2000-2006
 Member, Biological Sciences Tenure Committee, 2006-2008
 Member, Madison Civic Center Foundation Board of Directors, 1980's
 Member, Dane County Economic Summit Council, 1993-1999
 Member, Board of Directors of two biotech companies and on the Scientific Advisory Board for two biotech R&D companies and a biotech-focused investment company
 Founder and first CEO, ConjuGon, Inc., an anti-microbial drug development company in Madison WI, founded with Marcin Filutowicz in 2001
 Member and technology evaluator for angel group Wisconsin Investment Partners, 2000-present
 Member, Board of Directors, Wisconsin Biotechnology and Medical Devices Association (WBMDA), 2004-2006
 Member, Board of Directors, Wisconsin Academy of Sciences, Arts, and Letters, 2007-2018; VP for Science 2011-2018
 Public education speaker for Badger Talks, PLATO, and Wednesday Night @ The Lab, 2000-2023