

April 29, 2003

CURRICULUM VITAE

NAME: Thressa Campbell Stadtman

BIRTHDATE: February 12, 1920

BIRTHPLACE: Sterling, New York

CITIZENSHIP: United States

MARITAL STATUS: Married 1943, no children

EDUCATION:

1940 - B.S. (Microbiology), Cornell University, Ithaca, NY
1942 - M.S. (Microbiology and Nutrition), Cornell University, Ithaca, NY
1949 - Ph.D. (Microbial Biochemistry), University of California, Berkeley,
Berkeley, CA. (Thesis: Studies on Methane Fermentations)

BRIEF CHRONOLOGY OF EMPLOYMENT:

1941 Bacteriologist, Sealright Co., Inc., Fulton, NY
1941-1942 Graduate Fellowship in Bacteriology, Cornell University, New York State
Agricultural Experiment Station, Geneva, NY
1942-1943 Research Assistant in Bacteriology, Cornell University, New York State
Agricultural Experiment Station, Geneva, NY
1943-1946 Research Associate in Food Technology, University of California,
Berkeley, CA
1943-1949 Graduate Student, University of California, Berkeley, CA
1949-1950 Research Assistant, Department of Biochemistry, Harvard Medical School,
Cambridge, MA
1950-1953 Chemist (Biochemistry), GS-11, Laboratory of Cellular Physiology and
Metabolism, Enzyme Section, National Heart Institute, National Institutes of Health,
Bethesda, MD
1953-1960 Chemist (Biochemistry), GS-12, Laboratory of Cellular Physiology and
Metabolism, Enzyme Section, NHI, NIH, Bethesda, MD
1954-1955 Leave of absence to work in the laboratory of D.D. Woods, Oxford, England, and F.
Lynen, München, Germany, supported by the Helen Hay Whitney Foundation
1960-1964 Chemist (Biochemistry), GS-13, Laboratory of Biochemistry, NHI, NIH, Bethesda,
MD
1964-1974 Chemist (Biochemistry), GS-14, Laboratory of Biochemistry, National Heart and
Lung Institute, NIH, Bethesda, MD
1974-1988 Chief, GS-15, Section on Intermediary Metabolism and Bioenergetics, Laboratory
of Biochemistry, National Heart, Lung, and Blood Institute, NIH, Bethesda, MD
1988-Present Senior Executive Service, ES LV-4, Chief, Section on Intermediary Metabolism and
Bioenergetics, Laboratory of Biochemistry, National Heart, Lung, and Blood
Institute, NIH, Bethesda, MD

MILITARY SERVICE: None

HONORS AND OTHER SCIENTIFIC RECOGNITION:

- New York State Undergraduate Cash Scholarship (4 years).
- Robert's Scholarship (2 years, Cornell University).
- Graduate Research Fellowship, New York State Agricultural Experiment Station-Cornell University.
- Fellowship from the Helen Hay Whitney Foundation, Grant No. 64, 1954-55.
- Chairman, Physiology Section of Society of American Bacteriologists, 1954-57. Organized Symposium and set up Physiology Section Program for 1957 annual meeting.
- Convener, Symposium on Steroid Metabolism at 1959 Annual Meeting of Society of American Bacteriologists, St. Louis, Missouri.
- Recipient, Rockefeller Foundation Grant "GA MNS 5989" for work in the laboratory of Prof. F. Lynen, University of Munich, as a Visiting Investigator in the Biochemical Institute, October 1, 1959-April 1, 1960.
- Member, Review Panel to assess suitability of scientific experiments planned for NASA Viking Missions to Mars, 1970.
- Ad Hoc Panel Member on Methane Fermentation as an Energy Resource for Developing Countries, National Academy of Sciences, April 19, 1972.
- Outside Examiner, Ph.D. thesis exam - University of Miami Medical School, November 1973.
- Outside Examiner, Ph.D. thesis exam - Johns Hopkins University and NIH Joint Program, January 16, 1974.
- Member, NAS Ad Hoc Panel on Methane Generation from Human, Animal, and Agricultural Wastes, October 25, 1974.
- Member, Committee to evaluate the research activities of the Laboratory of Microbiology and Immunology, National Institute of Dental Research, Bethesda, MD, March 4-5, 1975.
- Co-Chairman, NIH Alumni Reunion, April 18-20, 1975.
- Member, Board of Directors of the Foundation for Advanced Education in the Sciences, National Institutes of Health, June 1972-June 1975.
- Member, Eli Lilly Awards Committee, Society of American Bacteriologists, 1973-76, Chairman, 1976.
- Member, Search Committee for Director, National Institute of General Medical Sciences, NIH, 1975.
- Member, U.S. National Committee, International Union of Biochemistry, 1976-82.
- Appointed Member, Physiological Chemistry Study Section, NIH, July 1, 1976-June 30, 1980. Resigned June 30, 1977.
- Member, Search Committee for Director, Bureau of Foods, FDA, November 1977-January 1978.
- Secretary and Program Chairman (elected for three years), American Society of Biological Chemists, 1979-81.
- Member, Search Committee for Executive Officer, American Society of Biological Chemists, June-July 1979.
- Member, Ad Hoc Planning Committee, 2nd International Symposium on Selenium in Biology and Medicine, May 1980. Planning Meeting in Lubbock, TX, January 18-20, 1979.
- Chemical Society of Washington - Hillebrand Award, 1979.
- Elected to the National Academy of Sciences, 1981.
- Chairman, 1982 Travel Awards Committee for Australian Biochemical Congress, Perth, Australia.
- Vice Chairman, U.S. National Committee to International Union of Biochemistry, 1981-82.
- Member, NIH Alumni Association Committee, 1981-Present.
- Member, Scholars Advisory Panel, Fogarty Scholars-In-Residence Program, 1980-82.
- Member, Promotion Review Committee, National Institute of Mental Health, 1981-83.
- Elected to the American Academy of Arts and Sciences, 1982.
- Member, U.S. National Committee to International Union of Microbiology (IUM), 1982-Present.
- Chairman of Session of International Symposium on Medical and Biological Effects of Proteinase Inhibitors, Tokushima, Japan, August 5-8, 1982.

- Member of Biochemistry Delegation to Peoples Republic of China, September 1983.
- Recipient, Gas Research Institute Grant (3 years) for support of post-doctoral research on biochemistry of methane production.
- Member, Board on Chemical Sciences and Technology (BCST), (NAS and NRC Sponsorship), 1983-86.
- Biochemistry Delegate to joint meeting of BCST ad hoc panel members with corresponding British group [Science and Engineering Research Council (SERC)], Abingdon, England, December 1984.
- Nominee for President-Elect, American Society of Biological Chemists (ASBC), 1986.
- Member, U.S. National Academy of Sciences team to evaluate the scientific exchange program with the Hungarian Academy of Science, Budapest, Hungary, 1988.
- Recipient, 1986 William C. Rose Award, American Society of Biological Chemists (ASBC).
- Member of outside review committee to evaluate the programs and the faculty of the Department of Chemistry of The Ohio State University, Columbus, Ohio, February 7-10, 1988.
- Member, U.S. Senior Executive Service, 1988-Present.
- Recipient, Klaus Schwarz Commemorative Medal, International Association of Bioinorganic Scientists.
- Member, Review Committee for Fellowships in Molecular Biology, Human Frontier Science Program, Strasbourg, France, 1990 and 1991.
- U.S. Public Health Service Special Recognition Award, 1991.
- Member, National Academy of Arts and Sciences Nominating Committee, 1993-1995.
- Research career profile published in Cornell University, *Agriculture and Life Sciences News*, 1994.
- Member of Search Committee for Scientific Director, National Institute of Environmental Health Sciences, Research Triangle Park, NC, 1994-1995.
- Member, Toxicology Advisory Committee, Burroughs-Wellcome Fund. Met in Denver, CO, January 20-21, 1995. Three-year appointment, 1994-1997.
- Invited to serve as consultant for Postdoctoral Training Awards Program, Departments of Physiology and Biochemistry, University of North Texas, Fort Worth, 1995.
- President Elect, International Society of Vitamins and Related Biofactors, 1995-1998.
- Elected Corresponding Member, Nordrhein-Westafliche Akademie der Wissenschaften, 1998.
- Member, International Review Committee, Swedish Natural Science Research Council, Stockholm, Sweden, May, 1998.
- President, International Society of Vitamins and Related Biofactors, 1998-2001.
- Member, Executive Women in Government.
- Recipient, L'Oréal/Helena Rubenstein "Tribute to a Life Achievement" Award, Paris, France, January, 2000.
- Recipient, Gabriel Bertrand Prize Medal, Venice, Italy, May 19, 2001.

MEMBERSHIP IN SOCIETIES:

American Academy of Arts and Sciences

American Society of Microbiology (formerly: Society of American Bacteriologists)

American Society for Biochemistry and Molecular Biology (formerly: American Society of Biological Chemists)

American Chemical Society

Executive Women in Government

National Academy of Sciences

Sigma Xi

Sigma Delta Epsilon (Honorary)

EDITORIAL POSITIONS:

Archives of Biochemistry and Biophysics, 1960-1990.

The Journal of Biological Chemistry, 1971-76.

Molecular and Cellular Biochemistry (replaces old *Enzymologia*), Regional Editor, 1972-82.

BioFactors (new publisher, IOS), Editor in Chief, 1988-1994, Advisory Editor, 1994-Present.

Anaerobe (new Academic Press Journal), Editor, 1995-Present.

Member, Editorial Academy, *International Journal of Molecular Medicine*, 1997-Present.

INVITED LECTURES AND MEETINGS:

- Invited Speaker, International Symposium on Mechanism of Drug Action, Milano, Italy, June 1960. (Title: Anaerobic Fatty Acid Formation from Amino Acids.)
- Presented two papers on "Role of B₁₂ Coenzyme in the Fermentation of Lysine" and "Biosynthesis of Methane from the Methyl Moiety of Methyl Cobalamin in Extracts of *Methanosarcina barkeri*", B₁₂ Symposium, New York Academy of Sciences, April 1963.
- Presented a paper on "Energetics of Anaerobic Oxidation Reduction Reactions" at the Symposium on Oxidative Phosphorylation, Gordon Research Conference, August 1963.
- Presented a paper on "Electron Transport in Anaerobic Amino Acid Reductase Systems" at the Ferredoxin Symposium, National Meeting of the American Chemical Society, September 1, 1964.
- Presented a paper entitled "Electron Transport Proteins of *Clostridium sticklandii*" at the Symposium on Nonheme Iron Proteins and Their Role in Energy Conservation at the Kettering Institute, Yellow Springs, Ohio, March 1965.
- Presented a paper on "Role of B₁₂ Compounds in Methane Formation" at a Symposium on Vitamin B₁₂ sponsored by the American Society of Biological Chemists, Federation Meetings, April 1966.
- Presented a paper on "The Role of B₁₂ Compounds in Methane and Lysine Fermentations" at a special symposium on Vitamin B₁₂ Chemistry and Function held in connection with the International Biochemistry Congress in Tokyo, Japan, August 1967.
- Presented a paper at the Symposium on Coenzymes and Metabolic Pathways, Gordon Research Conference, July 1968.
- Invited Speaker at the American Chemical Society symposium honoring Dr. Sophia Symonds Garvin Award, September 1969. Topic: Lysine Fermentation and B₁₂ Coenzyme.
- Presented a paper on Methane Fermentation at the American Chemical Society Symposium, Anaerobic Biological Treatment Processes, Houston, TX, February 1970.
- Participant, Energy Conservation Workshop, Gatlinburg, TN, October 11-14, 1972.
- EMBO Workshop on Methyl Group Biochemistry, Gif-sur-Yvette, France. Invited Lecturer on Methane and Acetate Biosynthesis, June 26-29, 1973.
- Invited Speaker, Symposium on Selenoproteins: A New Class of Proteins, State University of New York at Binghamton, NY, September 11-12, 1974.
- Organizer of round table discussion on methane production at Symposium on Microbial Production and Utilization of Gases, Gottingen, West Germany, September 2, 1975.
- Invited Speaker, Symposium on Selenium and Tellurium in the Environment, University of Notre Dame, Notre Dame, Indiana, May 1976.
- Invited Speaker, Selenium Biochemistry, Gordon Research Conference on Enzymes and Coenzymes, July 4, 1977.
- Plenary Lecturer, "Selenium-dependent Bacterial Enzymes", Third International Symposium on Organo Selenium and Tellurium Chemistry, Metz, France, July 9-12, 1979.
- Lecturer, Second International Symposium on Selenium in Biology and Medicine, Lubbock, TX, May 1980.
- Plenary Lecturer at Annual Meeting of Toxicology Society, Las Vegas, NV, March 9, 1983.
- Invited Plenary Lecturer, Fourth International Conference on Organic Chemistry of Selenium and Tellurium, Birmingham, England, July 1983.

- Invited Plenary Lecturer, Third International Symposium on Selenium in Biology and Medicine, Beijing, China, June 1984.
- Invited Plenary Lecturer, Eleventh International Symposium on the Organic Chemistry of Sulphur, Lindau, Germany, September 1984.
- Invited Speaker, Gordon Conference on Methanogenesis, Tilton, NH, August 1984.
- Invited Speaker, Ninth Enzyme Mechanisms Conference, Innisbrook, FL, January 3-5, 1985.
- Chair, Session on "Enzyme Structure and Function", Second Gordon Research Conference on the Biochemistry and Molecular Biology of Methanogenic Bacteria, New Hampton, New Hampshire, June 29-July 2, 1987.
- Presented a talk on selenoamino acid transfer ribonucleic acids (Se-tRNAs) at the 12th International Workshop on tRNAs", Umeå, Sweden, July 3-9, 1987. Also, participated in the Discussion Group on tRNA Modification, Umeå, Sweden, July 9-11, 1987.
- Organizer for one-day session, "Biochemistry of Selenium", Fifth International Conference on the Chemistry of Selenium and Tellurium, Oak Ridge, TN, August 24-28, 1987.
- Presented a talk on selenium biochemistry at the Harland G. Wood Symposium, Cleveland, Ohio, October 22-23, 1987.
- Presented a talk entitled "*Escherichia coli* Formate Dehydrogenase: Effect of Replacement of Selenocysteine with Cysteine on Catalytic Activity", European Workshop on the Regulation of Anaerobic Metabolism, Oberammergau, Bavaria, West Germany, May 25-29, 1988.
- Member, Foreign Advisory Board for the Symposium and co-chair of Session I: Selenium Biochemistry, Fourth International Symposium on Selenium in Biology and Medicine, Tübingen, West Germany, July 17-21, 1988.
- Invited member of the National Academy of Sciences team to evaluate the benefits of the past 10 or more year's exchange program between U.S. and Hungarian scientists sponsored by the U.S. and Hungarian Academies of Sciences, Budapest, Hungary, October 24-28, 1988.
 - Invited speaker, Eleventh Enzyme Mechanism Conference, St. Petersburg, FL, January 5-8, 1989.
- Invited symposium speaker, Annual Meeting of the American Society of Biochemistry and Molecular Biology, San Francisco, CA, February 1, 1989.
- Invited symposium speaker, Annual Meeting of the American Society of Microbiology, New Orleans, LA, May 15, 1989.
- Invited speaker, 13th International tRNA Workshop, Vancouver, BC, Canada, June 4-9, 1989.
- Invited speaker, 19th Meeting of the Federation of European Biochemical Societies (FEBS), Rome, Italy, July 2-7, 1989.
- Invited speaker and chair of session on "Peroxidases in Cell Protection and Metabolism", International Symposium on Biological Oxidation Systems, Bangalore, India, October 22-27, 1989.
- Invited speaker, Satellite Symposium on Polyunsaturated Fatty Acids and Eicosanoids, Hyderabad, India, October 30-November 2, 1989.
- Invited speaker, Selenium Symposium, FASEB Meeting, Washington, DC, April 4, 1990.
- Plenary lecturer, Korean Biochemical Society Meeting, Seoul, Korea, April 24, 1990.
- Plenary lecturer, Korean Molecular Biology Society Meeting, Pusan, Korea, April 28, 1990.
- Lecturer, Symposium for 70th Birthdays of E.R. and T.C. Stadtman, American Society of Biochemistry and Molecular Biology Meeting, New Orleans, LA, June 2, 1990.
- Plenary Lecturer, Gordon Conference on Methanogenesis, Plymouth, NH, July 5, 1990.
- Invited speaker, International Symposium on Selenium, Belgrade, Yugoslavia, May 12-15, 1991.
- Invited speaker, The VIth International Conference on the Chemistry of Selenium and Tellurium, Osaka, Japan, July 9-13, 1991.
- Invited speaker, Research Frontiers in Biochemistry, Stockholm, Sweden, September 9-11, 1991.
- Plenary Lecturer, The First International Congress on Vitamins and Biofactors in Life Sciences, Kobe, Japan, September 16-20, 1991.
- Lecturer at Yamaguchi Medical School, Ubi, Japan, September 21, 1991.

- Lecturer at Okayama University, Okayama, Japan, September 26, 1991.
- Invited speaker, International Symposium honoring Ralph Wolf, University of Illinois, Urbana, IL, May 23, 1992.
- Invited speaker, FASEB Summer Conference, Trace Elements, Copper Mountain, CO, June 21-26, 1992.
- Invited speaker, 5th International Symposium on Selenium in Biology and Medicine, Vanderbilt University, Nashville, TN, July 19-23, 1992. Member Program Committee.
- Plenary Lecturer, The Protein Society, San Diego, CA, July 25-29, 1992.
- Lectures in Aussois, France; tRNA meeting, May 2-10, 1994, Umea, Sweden; Special Symposium, August 25-27, 1994; University of Naples Medical School, September 21-22, 1994; DNAX Biotechnology Co., Palo Alto, CA, December 12, 1994.
- Co-Organizer of symposium on Se enzyme in eukaryotes and gave introductory lecture at International Congress on Vitamins and Biofactors in Health Science, San Diego, CA, February 16-19, 1995.
- Invited speaker, FASEB Summer Conference: Micronutrients: Trace Elements. Copper Mountain, Colorado, June 25-30, 1995.
- President Elect of the International Society for Vitamins and Related Biofactors (ISVRB).
- Invited Speaker, International Conference on Food Factors and Cancer, Hamamatsu, Japan, December 10-13, 1995.
- Seminar Speaker, Faculty of Agriculture, Okayama University, Okayama, Japan, December 10-15, 1995.
- Seminar Speaker, Department of Chemistry, University of Massachusetts, Amherst, MA, February 29, 1996.
- Invited Speaker, Selenium Symposium organized by Medicinal Chemistry Section, American Chemical Society, New Orleans, LA, March 25, 1996.
- Seminar Speaker, GBF, Gesellschaft Biotech. Forschung, Braunschweig, Germany and Inst. Genetik u. Mikrobiol., University of Munich, Germany, April 30, 1996.
- Invited Lecturer, International Workshop: New Trends in Biocatalysis Research, Kyoto, Japan, May 29-June 1, 1996.
- Invited Lecturer, International Symposium: Art of the Anaerobe, University of Georgia, Athens, GA, August 16-17, 1996.
- Invited Seminar Speaker, Biochemistry Department, Tulane University, New Orleans, LA, March 3, 1997.
- Invited Seminar Speaker, Chemistry Department, University of Delaware, March 24, 1997.
- Invited Speaker, International Symposium on Molybdenum Enzymes, Sussex, England, April 12-15, 1997.
- Invited Speaker, International Biometals Symposium, Calgary University, Calgary, Alberta, Canada, August 10-14, 1997.
- Invited speaker, Reactive Oxygen Species and Cell Signaling Symposium, NIH, Bethesda, Maryland, April 6-7, 1998.
- ISVRB Meeting, Goslar, Germany, June 30-July 1, 1998.
- The Oxygen Society, Washington, DC, November 23, 1998.
- Invited seminar, Oregon State University, Corvallis, Oregon, October 16, 1998.
- Invited seminar, University of Maryland Cancer Center, Baltimore, Maryland, October 23, 1998.
- Invited speaker, Oxygen Club of California, Santa Barbara, CA, March 3-6, 1999.
- Invited speaker, CARB, University of Maryland, Shady Grove Campus, Maryland, March 22, 1999.
- Invited speaker, Opening Lecture, Trace Elements in Man and Animals (TEMA) 10 Meeting, Evian, France, May 2-7, 1999.
- Invited speaker, Overview lecture for selenium session, FASEB Meeting, Washington, DC, April 17-27, 1999.
- Invited speaker, Symposium to honor Marianne Grunberg-Manago on the occasion of her receiving an honorary degree from the University of Illinois, Urbana-Champaign, IL, May 14, 1999.

- Speaker at NIH National Institute on Aging Workshop on Antioxidants, Chevy Chase, MD, July 14-16, 1999.
- Invited Speaker, 8th Congress of the International Association of Biomedical Gerontology, Satellite Meeting: Free Radicals and Human Diseases, Kwangju, Korea, February 24-27, 2000.
- Invited participant, "Symposium on Frontiers in Biomedical Research", March 15-17, 2000, University of Pennsylvania.
- Invited Speaker, American Chemical Society's 219th National Meeting, San Francisco, CA, March 26-30, 2000.
- Invited Speaker, "Peck Symposium" on "The Power of Anaerobes", at the University of Georgia, Georgia Center, Athens, GA, May 18-19, 2000.
- Invited speaker at the 10th Biennial Meeting of the International Society for Free Radical Research (SFRR2000), Kyoto International Conference Hall (KICH), October 16-20, 2000, Kyoto, Japan. Title: Antioxidant Enzymes.
- Recipient of the Gabriel Bertrand Prize and invited lecturer on selenoproteins at the first international symposium on "Trace Elements and Minerals in Medicine and Biology", Venice, Italy, on May 16-19, 2001.
- Invited plenary lecturer on "Biosynthesis of selenophosphate, the selenium donor used by eukaryotes and prokaryotes for selenoenzyme production and recent studies on mammalian thioredoxin reductase" at the 53rd Annual Meeting of the Vitamin Society of Japan, May 24 and 25, 2001, Osaka (Awaji Island), Japan.
- Invited speaker at the two-day international symposium, First Hong Kong Symposium in Chemical Technology "Chemical Biology for Drug Development", July 19-20, 2001, in Hong Kong. Title: Selenium-Dependent Thioredoxin Reductase and the Roles of Selenium Delivery Proteins in the Biosynthesis of Selenophosphate.
- Invited speaker at the XIth Biennial Meeting of the Society for Free Radical Research International (SFRI 2002), in Paris, France, on July 16-2002. Title: Biosynthesis of Specific Selenocysteine-Containing Enzymes: Delivery Protein Systems Provide Selenium for Synthesis of Selenophosphate, a Key Intermediate.
- Invited to present a seminar at the Department of Chemistry, University of Louisville, Louisville, KY, January 17, 2003. Title: Selenium Pathways for Selenophosphate and Selenoenzyme Biosynthesis".
- Invited seminar, Department of Chemistry and Biochemistry, University of California, Los Angeles, CA. Title: Selenium pathways for selenophosphate and selenoenzyme biosynthesis".
- Invited speaker, 8th International Congress on Amino Acids and Proteins, September 5-9, 2003, Rome, Italy: Title: Selenium delivery proteins and selenophosphate biosynthesis.
- Invited speaker, Minisymposium on Oxidative Protein Damage, September 12, 2003, Lincoln, NE. Title: Selenophosphate, required for biosynthesis of specific selenoproteins, can be formed from elemental selenium supplied by delivery proteins.
- Invited speaker, October 9, 2003, Auburn University, Auburn, AL. Title: Selenium delivery proteins and selenophosphate biosynthesis.

SOME SPECIAL LECTURES AND PARTICIPATION IN COURSES:

- Invited speaker to give lectures on "Ferredoxin" and on "B₁₂-Coenzymes" at EMBO course in Pisa, Italy, July 18-24, 1966.
- Invited speaker to give a series of lectures on "Microbial Metabolism" at the University of Illinois, March 1967.
- Presented a paper for the inauguration of a new institute at the University of Montreal, Canada, October 1967. Topic: "Energy Mechanisms of Anaerobic Bacteria".
- Lecture on Coenzyme-B₁₂ Dependent Lysine Fermentation, University of Copenhagen, Denmark, September 1968.

- Lectures in Biochemistry Courses at Stanford University and the University of California, Berkeley, November 1969.
- Lectures on B₁₂-Coenzyme Dependent Reactions at the Organic Chemistry Department, Technische Hochschule, Zurich, February 20, 1970 and February 1971.
- Lectures in Biochemistry Course at The Pennsylvania State University, University Park, PA, October 1-2, 1973.
- Invited lecturer in series entitled "Distinguished Speakers in Biochemistry and Molecular Biology", University of Wisconsin-Milwaukee, September 21, 1988.

LECTURES ON SELENIUM-DEPENDENT ENZYMES:

- Battelle Institute Lecture at the University of Washington, Seattle, WA, December 1973.
- Max-Planck Institut für Biochemie, München, July 1974.
- Department of Biochemistry, University of Freiburg, Germany, September 9, 1975.
- Sandoz Forschungsinstitut, Vienna, Austria, April 1976.
- NATO sponsored course at University of Pisa, Italy, September 1976.
- University of Naples Medical School, Italy, October 27, 1977.
- University of Naples Medical School, Italy, October 19, 1981.
- Thirty-Second Mosbach Symposium, Mosbach, Germany, April 1981.
- University of Karlsruhe, Technische Hochschule, München, and University of Munster, April 1981.
- Seoul National University, Seoul, Korea, August 3, 1982.
- Institut für Genetik und Mikrobiologie der Universität München, West Germany, August 14-16, 1986.
- Annual Meeting of The Korean Biochemical Society, Chinju City, Korea, October 25-26, 1986.
- (For later ones, see above.)

INVITED LEAD ARTICLES IN SCIENCE:

Vitamin B₁₂ - March 1971 - 171, 859-867, 1971.

Selenium Biochemistry - March 1974 - 183, 1974.

LECTURES IN MICROBIOLOGY AND BIOCHEMISTRY DEPARTMENTS - U.S.A. UNIVERSITIES:

15-20 on anaerobic electron transport, glycine reductase, and B₁₂-coenzyme dependent reactions on the lysine and nicotinic acid fermentations.

Since 1973, 90 or more lectures on selenium biochemistry and selenium-dependent bacterial enzymes.

PUBLICATIONS:

1. Campbell, T.E. and Hofer, A.W.: A medium adapted to the bacteriophage of *Rhizobium leguminosarum*. *J. Bact.* **45**: 406-407, 1943.
2. Campbell, T.E. and Hucker, G.J.: Ribonflavin requirements of certain lactic acid bacteria. *Food Research* **9**: 197-205, 1944.
3. Stadtman, T.C.: Alcohol from surplus fruits and cannery wastes. *Wines and Vines* **25**: 1-9, July 1944.
4. Stadtman, T.C., Vaughn, R.H., and Marsh, G.L.: Decomposition of tartrates by some common fungi. *J. Bact.* **50**: 691-700, 1945.
5. Vaughn, R.H. and Stadtman, T.C.: A method for control of sanitation in food processing plants. *Amer. J. Public Health* **35**: No. 12, December 1945.
6. Vaughn, R.H., Marsh, G.L., Stadtman, T.C., and Cytron, B.: Decomposition of tartrates by the coliform bacteria. *J. Bact.* **52**: 311-325, 1946.
7. Vaughn, R.H. and Stadtman, T.C.: A note on pH tolerance of *Aerobacter aerogenes* and *Aerobacillus macerans* as related to natural ecology and decomposition of acid food products. *J. Bact.* **21**: 263, 1946.
8. Stadtman, E.R., Stadtman, T.C., and Barker, H.A.: Tracer experiments on the mechanism of synthesis of valeric and caproic acids by *Clostridium kluyveri*. *J. Biol. Chem.* **178**: 677-682, 1949.
9. Stadtman, T.C. and Barker, H.A.: Studies on the methane fermentation. VIII. Tracer experiments on the mechanism of methane formation. *Arch. Biochem. Biophys.* **21**: 256-264, 1949.
10. Stadtman, T.C. and Barker, H.A.: Studies on the methane fermentation. VII. Tracer experiments on fatty acid oxidation by methane bacteria. *J. Bact.* **61**: 67-80, 1951.
11. Stadtman, T.C. and Barker, H.A.: Studies on the methane fermentation. IX. The origin of methane in the acetate and methanol fermentations by *Methanosarcina*. *J. Bact.* **61**: 81-86, 1951.
12. Stadtman, T.C. and Barker, H.A.: Studies on the methane fermentation. X. A new formate-decomposing bacterium, *Methanococcus vannielii*. *J. Bact.* **62**: 269-280, 1951.
13. Stadtman, E.R. and Stadtman, T.C.: Metabolism of microorganisms. *Annual Review of Microbiology*, Vol. VII, pp. 143-178, 1953.
14. Stadtman, T.C.: On the metabolism of an amino acid fermenting clostridium. *J. Bact.* **67**: 314-320, 1954.

15. Stadtman, T.C., Cherkes, A., and Anfinsen, C.B.: Studies on the microbiological degradation of cholesterol. *J. Biol. Chem.* **206**: 511–523, 1954.
16. Stadtman, T.C. and White, F.H., Jr.: Tracer studies on ornithine, lysine, and formate metabolism in an amino acid fermenting clostridium. *J. Bact.* **67**: 651–657, 1954.
17. Stadtman, T.C.: Cholesterol dehydrogenase from a Mycobacterium. *Methods in Enzymology*, Book I, p. 678.
18. Stadtman, T.C.: Preparation and assay of ergosterol and cholesterol. *Methods in Enzymology*, Book III, p. 392.
19. Stadtman, T.C.: On the anaerobic degradation of lysine. In: McElroy and Glass (eds.): *Amino Acid Metabolism*, pp. 493–495, The Johns Hopkins Press, Baltimore, 1955.
20. Stadtman, T.C.: Studies on the enzymic reduction of amino acids. A proline reductase of an amino acid-fermenting clostridium, strain HF. *Biochem. J.* **62**: 614–621, 1956.
21. Stadtman, T.C. and Elliott, P.: A new ATP-forming reaction: The reductive deamination of glycine. *J. Amer. Chem. Soc.* **78**: 2020–2021, 1956.
22. Stadtman, T.C. and McClung, L.S.: *Clostridium sticklandii* nov. sp. *J. Bact.* **73**: 218–219, 1957.
23. Wright, B.E. and Stadtman, T.C.: The role of polyglutamyl pteridine coenzymes in serine metabolism. I. Cofactor requirements in the conversion of serine to glycine. *J. Biol. Chem.* **219**: 863–871, 1956.
24. Stadtman, T.C. and Elliott, P.: Studies on the enzymic reduction of amino acids. II. Purification and properties of a D-proline reductase and a proline racemase from *Clostridium sticklandii*. *J. Biol. Chem.* **228**: 983–997, 1957.
25. Stadtman, T.C., Elliott, P., and Tiemann, L.: Studies on the enzymic reduction of amino acids. III. Phosphate esterification coupled with glycine reduction. *J. Biol. Chem.* **231**: 961–973, 1958.
26. Stadtman, T.C.: The microbial metabolism of steroids. In: Cook, R. (ed.): *Cholesterol*, pp. 457–463, Dundee, 1958.
27. Stadtman, T.C.: The participation of a quinone in the enzymic reduction of glycine by *Clostridium sticklandii*. *Biochem. Zeit.* **331**: 46–48, 1958.
28. Stadtman, T.C.: A menadione-dependent enzymic hydrolysis of p-nitrophenyl phosphate. *J. Biol. Chem.* **234**: 636–640, 1959.
29. Stadtman, T.C.: Fe⁺⁺-dependent alkaline phosphatase of yeast. *Biochem. Biophys. Acta* **32**: 95–98, 1959.

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