

Curriculum Vita

Kendra J. Golden

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Education

1989: Ph.D. in Biochemistry, The Pennsylvania State University, University Park, PA.
Dissertation: Occurrence of Nutrient Dependent Methylation(s) of a Membrane-Associated Protein in *Bacillus subtilis* and the Effect of *Bacillus subtilis* Sporulation Mutants. Advisor: Dr. R.W. Bernlohr.

1983: Bachelor of Science in Biochemistry, Washington State University, Pullman, WA.
Cum laude, Honors Program.

Postdoctoral Research Experience

Current: Research interests include many and varied aspects of microbiology, including biofilms, antibiotic resistance, phage therapy and insect-pathogen interactions.

1994-1995: Sabbatical at The Pennsylvania State University, University Park, PA.
Investigated cell lysis mechanisms initiated by *Bacillus thuringiensis* (Bt) toxins in midgut epithelial cells of the cabbage looper (*Trichoplusia ni*). Compared results to toxicity profiles observed in an established *T. ni* cell line of non-midgut origin and in live larvae. Lab supervisor: Dr. William J. McCarthy.

1989: The Pennsylvania State University, University Park, PA. Purification and characterization of glucose dehydrogenase from the tobacco hornworm, *Manduca sexta*.
Lab supervisor: Dr. Diana L. Cox-Foster.

Teaching/Administrative/Professional Experience

Present: Associate Dean for Academic Affairs. Whitman College, Walla Walla, WA.
Provide strategic leadership on curricular initiatives in conjunction with the Provost. Serve on President's Council, Committee of Division Chairs, Curriculum Committee and others to guide and manage the academic program. Serve as Accreditation Liaison Officer (ALO) for the College. Oversee ongoing processes of assessment for the College.

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Teaching/Administrative/Professional Experience, cont.

2009-2012: Chair, Division of Natural Sciences and Mathematics. Whitman College, Walla Walla, WA. Served as liaison between faculty in the science division and senior level administration. Represented the interests of faculty in budget allocations and served on the Budget Advisory Committee. Participated fully in tenure-track faculty searches for the entire campus. Served on the Committee of Division Chairs, an advisory group for the Provost and Dean of Faculty, as well as the Curriculum Committee.

1990-2013: Assistant and Associate Professor of Biology. Whitman College, Walla Walla, WA. Courses include Microbiology & Immunology (fall) and Cell Biology (spring) for biology majors, Nutrition (fall) for non-science majors, and an upper level seminar, Current Issues in Nutrition (spring). The Microbiology and Cell Biology courses have associated laboratories. Additional responsibilities included supervising student research projects and theses, student advising, service on college committees, and administering senior oral examinations.

1997-2000: Chair of the Biology Department. Whitman College, Walla Walla, WA. Duties included overseeing departmental budget, acting as liaison between the Dean of the Faculty and the biology department faculty, acting as liaison between students and the registrar, organization of departmental meetings, scheduling and organizing senior oral exams, overseeing and organizing visits of job candidates, and overseeing day-to-day operations of the Biology Department.

1996-1997: Assistant Professor of Biology. Allegheny College, Meadville, PA (while on leave of absence from Whitman College). Courses included Microbiology and Microbial Ecology. Also assisted with Introductory Biology laboratories.

1995, 1996: Biology instructor, Upward Bound Program. The Pennsylvania State University, University Park, PA. Taught general biology and environmental science and helped direct field trips and elective classes in this summer high school enrichment program for disadvantaged youth.

1989: Visiting Assistant Professor of Biology. Carleton College, Northfield, MN (sabbatical leave replacement position). Courses included Biochemistry, Microbiology and their associated laboratories. Assisted in the introductory botany course and in the genetics/energetics course.

1983-1986: Teaching Assistant. The Pennsylvania State University, University Park, PA. Organized and instructed undergraduate biochemistry laboratory courses. One course was an upper level lab section on enzyme kinetics. The other was a lower level lab that taught standard biochemical principles through experimentation.

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Presentations and Publications

Publications

Golden, Kendra. 2008. Drifting Away from Nature: The Cost of Convenience. *Forum on Public Policy Online*, Spring 2008 edition.

<http://forumonpublicpolicy.com/archivespring08/golden.pdf>

Golden, Kendra. 2006. Calories and Longevity: Do They Really Matter? *Forum on Public Policy Online*, Fall 2006 edition.

<http://www.forumonpublicpolicy.com/archive06/golden.pdf>

Golden, Kendra. 2005. Chapter 15 - Nutrition Through the Lifecycle: Pregnancy and the First Year of Life. In Nutrition: An Applied Approach, by Janice Thompson and Melinda Manore. Pearson Education, Inc., pp. 535-573. Also contributed significantly to Chapter 16 – Nutrition Through the Lifecycle: Childhood to Late Adulthood (same text, pp. 575-611). Note: I am also acknowledged in the second edition of this text, copyright 2009.

Golden, K.J., and McCarthy, W.J. Cytotoxicity of *Bacillus thuringiensis* Parental and CryI Toxins Using the TN368 Cell Line and Midgut Epithelial Cell Suspensions Derived from the Cabbage Looper, *Trichoplusia ni*. Unpublished (W.J. McCarthy, PI, deceased).

Cox-Foster, D.L., Golden, K.J., and Briggs, M. 1991. Glucose dehydrogenase: Evolutionary Conservation of a Molting Fluid Enzyme in Diptera and Lepidoptera. In Molecular Insect Science, ed. by H.H. Hagedorn, J.G. Hildebrand, M.B. Kidwell, and J.H. Law. Plenum Pub. Corp., p. 293.

Golden, K.J. and Bernlohr, R.W. 1989. Defects in the Nutrient-Dependent Methylation of a Membrane-Associated Protein in *spo* Mutants of *Bacillus subtilis*. *Molecular and General Genetics*, 220:1-7.

Bernlohr, R.W., Saha, A.L., Young, C.C., Toth, B.R., and Golden, K.J. 1988. Nutrient Stimulated Methylation of a Membrane Protein in *Bacillus licheniformis*. *Journal of Bacteriology*, 170:4113-4118.

Golden, K.J. and Bernlohr, R.W. 1985. Nitrogen Catabolite Repression of the L-Asparaginase of *Bacillus licheniformis*. *Journal of Bacteriology*, 164:938-940.

Presentations

Golden, Kendra. 2013. Whitman College Baccalaureate address. "The Lens."

Golden, Kendra. 2008. Whitman College faculty panel on summer reading of The Complete Persepolis by Marjane Satrapi. "Identity, Conformity, and Being True to Oneself: One Woman's Journey."

Golden, Kendra. 2008. Oxford Round Table on Obesity, Oxford, U.K. Drifting Away from Nature: The Cost of Convenience.

Golden, Kendra. 2008. Academy for Lifelong Learning, Western Washington University. A Cure for the Past, a Cure for the Future: The Potential for Phage Therapy.

Golden, Kendra. 2008. Whitman College Symposium on Diversity and Community. Through the Looking Glass: Personal Identity and Mirror Images.

Golden, Kendra. 2006. Whitman College Fall Family Weekend. An Introspective Journey on Becoming a Scientist. Included discussion of research on phage therapy.

Golden, Kendra. 2006. Oxford Round Table on Nutrition, Oxford, UK. Calories and Longevity: Do They Really Matter?

Golden, Kendra. 2003. Academy for Lifelong Learning, Western Washington University. Infection and Disease in the 21st Century. A four-day seminar course.

Golden, Kendra. 1998. Institute for Learning in Retirement, Western Washington University. Nutrition for Living.

Golden, Kendra. 1997. Guest lecture, Whitman College, Walla Walla, WA. The New Germs.

Golden, Kendra. 1996. Alumni Weekend, Whitman College, Walla Walla, WA. Americans' Obsession with Fat.

Golden, Kendra. 1994. Is a Shift to Biological Insect Management Compatible with Sustainable Agriculture: *Bacillus thuringiensis* in a Multitoxin Approach as a Case Study. Annual joint meetings of The Association for the Study of Food and Society and The Agriculture, Food, and Human Values Society, Tucson, AZ.

Golden, Kendra. 1994. Moth Metamorphosis and Pest Management Strategies. Walla Walla College, College Place, WA (sponsored by local Sigma Xi chapter).

Golden, Kendra. 1993. Moth Metamorphosis and Pest Management Strategies in Tobacco Hornworm. Murdock Charitable Trust meeting, Tacoma, WA.

Posters

Yoo, Chris, Brian Mooers, Daniel Hart and Kendra J. Golden. 2009. The *Manduca sexta* Immune Response to *Escherichia coli* Infection in the Presence of T4 Bacteriophage. 18th Annual Murdock College Science Research Program Conference, Gonzaga University, Spokane, WA.

Wutzke, Kellie and Kendra Golden. 2008. Use of Lytic T4 Bacteriophage in Prevention of *Escherichia coli* Infection in *Manduca sexta* Larvae. Washington NASA Space Grant Consortium Awards Reception and Poster Session, University of Washington.

Golden, Kendra, Mitch Cohen and Anne Swant. 1995. Temporal Activation of Enzyme Activities Involved in Adult Eclosion of the Tobacco Hornworm, *Manduca sexta*. Research Corporation Annual Partners in Science meeting, Tucson, AZ.

Black, Karen, Shayla Hart and Kendra Golden. 1994. Effects of Nicotine on Survival Rates of *Manduca sexta* in Constant and Fluctuating Environments. Murdock Charitable Trust meeting, Spokane, WA.

DeKay, Peter B., Kevin J. Gibson and Kendra Golden. 1993. The Effect of One Multitoxin Approach Study on the Development of Resistance in *Manduca sexta*. Murdock Charitable Trust meeting, Tacoma, WA.

Golden, Kendra. 1993. Implications for Integrated Pest Management Strategies. Parents' Weekend, Whitman College, Walla Walla, WA.

Golden, Kendra, Shane Beck and Elizabeth Guild. 1992. Presented background information and research findings concerning the effects of nicotine and *Bacillus thuringiensis* spores on tobacco hornworm larvae to Whitman College Overseers, Whitman College, Walla Walla, WA

Golden, Kendra, Scott Schindell, Karin Rainey and Chris Perdue. 1992. Role of Glucose Dehydrogenase Activity in Successful Moth Eclosion. Presented at: 1) American Chemical Society, Agrochemical Division meeting, Snowbird, UT and 2) Murdock Charitable Trust meeting, Portland, OR.

Golden, Kendra, Scott Schindell, Jeff Grimm and Karin Rainey. 1992. Role of Glucose Dehydrogenase Activity in Successful Moth Eclosion. Presented at 1) American Association for the Advancement of Science Annual Meeting, Chicago, IL and 2) Pacific Branch, Entomological Society of America Annual Meeting, Kona, HI.

Posters, cont.

Golden, Kendra and Jeff Schnabel. 1992. Aphidicidal Extract Derived from Cashew Nuts. American Chemical Society, Agrochemical Division meeting, Snowbird, UT.

Cox-Foster, D.L., Kendra Golden and M. Briggs. 1989. Glucose Dehydrogenase: Evolutionary Conservation of a Molting Fluid Enzyme in Diptera and Lepidoptera. Presented at 1)National Entomological Society of America meeting, San Antonio, TX and 2)International Symposium on Molecular Insect Science, Tucson, AZ.

Bernlohr, R.W., K.J. Golden and C. Young. 1988. Nutrient-Stimulated Methylation of a Membrane-Associated Protein in *Bacillus subtilis* and *Bacillus licheniformis*. Tenth International Spores Conference, Woods Hole, MA.

Golden, K.J. and R.W. Bernlohr. 1987. A Membrane Protein in *Bacillus* spp. is Methylated in Response to Nitrogen in the Medium. FASEB, Philadelphia, PA.

Awards

2006. A.E. Lange Award for Distinguished Science Teaching. Whitman College, Walla Walla, WA.

Funding

Murdock Charitable Trust, Summer Research Funding, 1992, 1993, 1994, 1998.

Howard Hughes Medical Institute, Summer Research Funding, 1991, 1992, 1993, 1998, 2009.

Sally Ann Abshire Award for Faculty/Student Research, 1992 and 1993.

Partners in Science Grant, Research Corporation, 1993 and 1994.

Rall Summer Research Funds, 1998.

Louis B. Perry Summer Research Scholarship, 1999, 2008, 2010, 2012, 2013

NASA Space Consortium, 2008.