CURRICULUM VITAE

NAME: **Katherine A. Sukalski**

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EDUCATION:

Universities Attended	Location	Date	Degrees
Bemidji State University	Bemidji, MN	1971-1976	B.S. in Chemistry 1976 (graduated Summa Cum Laude)
University of North Dakota	Grand Forks, ND	1976-1981	Ph.D. in Biochemistry 1981

PROFESSIONAL EXPERIENCE:

- Post-doctoral Fellow, Department of Biochemistry, University of North Dakota. December 1981 - December 1987, Robert Nordlie, Ph.D. postdoctoral mentor
- Research Assistant Professor, Department of Biochemistry and Molecular Biology, University of North Dakota, January 1988 - January 1989
- Assistant Professor, Department of Biochemistry and Molecular Biology, University of North Dakota, January 1989 - July 1995
- Associate Professor, Department of Biochemistry and Molecular Biology, University of North Dakota, July 1995 - present
- Assistant Director for Program Evaluation on the North Dakota Biomedical Research Infrastructure Network (BRIN), January 2002 - August 2004, 25% time commitment
- Assistant Director for Program Evaluation North Dakota IDeA Networks for Biomedical Research Excellence (INBRE) program, August 2004 – September 2005, 20% time commitment
- Director of Education, Department of Biochemistry and Molecular Biology, 2002 - present

CURRENT MEMBERSHIP IN PROFESSIONAL AND HONORARY ORGANIZATIONS:

American Society of Biochemistry and Molecular Biology
International Association of Medical Science Educators
Sigma Xi Research Society, University of North Dakota Chapter (President, 1989-1990)
North Dakota Academy of Science
Iota Sigma Pi - National Honor Society for Women in Chemistry

HONORS AND AWARDS:

Outstanding Student Organization Advisor Award (Memorial Union Leadership Award). For American Indian Science and Engineering Society Student Chapter Advisor. (2007)
Sigma Xi Graduate Award (1981)
Ya-Pin Lee Award "Outstanding Graduate Student" (1979)
Selected to participate in the UND Administrative Internship Program for the 2001 - 2002 academic year. Lillian Elsinga, Dean of Students, as mentor. Project involved assessment of the acquisition of leadership skills by undergraduate in outside-of-classroom environments.

EDUCATION ACTIVITIES

MEDICAL EDUCATION:

- Chair of the Block II (Year One) Design Committee (1997 - 2002) (Block Director)
- Conducted Patient Centered Learning Facilitator Training Sessions. March 1998, March and July 1999. Led a 7 hour training session for 4-5 faculty who were to function as small group facilitators in the first and second years of medical education.
- Facilitate small groups once per year with the following exceptions: 1999/0 (2) and 2001/2 (0)
- Case Editor 1998 -2000
- Co-author of 19 cases to-date
    - Coordinated with the Block Director, the choice of a case subject appropriate for the block and the identification of a physician to serve as co-author. Worked with the clinician to write the case. Block 1 (4 cases), Block 2 (9 cases), Block 8 (6 cases)
- Chaired a Nutrition Committee was appointed by the Medical Student Education Council to identify appropriate nutrition objectives and implement their inclusion in the curriculum by working through the Block Design Teams (2000 – 2001)
- Lectures given yearly since 1998:
    - Block 1 (4 Lectures)
        - Lipids as Storage Form of Energy
        - Fatty Acid Oxidation and Ketone Bodies
        - Cholesterol Metabolism
        - Blood Lipoproteins
    - Block 2
        - Muscle Proteins, Structure and Mechanics of Contraction (1998-2001)
        - Muscle Contraction: Regulation and Energy Provision (1998-2001)
        - Prostaglandins & Leukotrienes - Specialized Lipids
    - Nutrition Lectures Given Yearly since 1998
        - Nutrition and the Immune System (1998 – 2001 only)
        - Introduction to Nutrition (2005 – present)
        - Nutrition in the Neonate
        - Nutrition and the Older Adult
        - Nutrition and the Cardiovascular System
- Member, Block VI Design Team (1998 – 2001)

MEDICAL EDUCATION: MEDICAL SCHOOL FOR THE PUBLIC:

Oversaw the organization and implementation of "Infectious Diseases: Still Plaguing Us after All these Years," a six-week program for the public held in October and November 2004. At the conclusion of the series submitted a written summary and evaluation of the program which included a job description for the director. The report clearly defined the roles of all the units that must be involved for a successful event and contained suggestions for continued and improved success of the program in the future.

UNDERGRADUATE EDUCATION:

BMB 301	Biochemistry Lecture Course Director and Lecturer (17 of 35 lectures)	Spring 1998 – 2007
BMB 401	The Biochemistry of Proteins and Information Flow Course Director, one of several lecturers	Fall 2004 – present
BMB 403	Advanced Biochemistry Laboratory Course Director	Fall 2004 – present

GRADUATE EDUCATION:

BIMB 500	Cellular and Molecular Foundations of Biomedical Science 3 – 5 lectures, metabolism of carbohydrates, amino acids, lipids and lipoproteins	Fall 1999 – present
BIMD 500	Lab (1) Ethics III – Compliance	Fall 2000, 2001
BMB 531	Research Ethics – 2 credits	Spring 1998
BMB 531	Membrane Biogenesis – 1 credit	Spring 2001
BMB 533	Research Ethics – 1 credit	Spring 2005
BMB 595	Research Ethics – 1 credit (taught as Directed Studies)	Summer 2005
BMB 521	Seminar	Fall 1998 – present
BMB 514	Current Literature (Journal Club)	Spring 1998 – present

MEMBERSHIP ON GRADUATE ADVISORY COMMITTEES

Current Graduate Advisory Committees

Thomas Henderson, Microbiology and Immunology, Ph.D. candidate
Yvonne Bongfen, Chemistry Ph.D. candidate
Neville Forlemu, Chemistry Ph.D. candidate
Valeria Stepanova, Chemistry Ph.D. candidate

Major Advisor for Degrees Awarded

Karen A. Pinto, MS awarded May 1991
Joan L. Berntson, MS awarded May 1992
Thomas P. LaBerge, MS awarded May 1995
Robin K. Arneson, MS awarded October 1997
Michelle K. LeMon, MS awarded October 1997
Karl A. Wald, Ph.D. awarded May 2002

Service on Other Graduate Committees since 1998

James Johnson, BMB Ph.D. awarded Fall 1998
Jay Wiederman, BMB Ph.D. awarded spring 2000
Karen Boeshan, BMB Ph.D. May 2001
Benchaporn Pananusorn, BMB M.S. May 2001
Michelle Appleby, Chemistry, Ph.D. December 2000
Ulf Bronas, Physical Education and Exercise Science, M.S. August 2001
Laura Sumner, BMB Ph.D. awarded August 2002
Mark Romanick, Physiology, Pharmacology, & Therapeutics, Ph.D. awarded May 2002
Melissa Kennedy, Physiology, Pharmacology, & Therapeutics, MS awarded May 2002
Hui Liu, Chemistry, Ph.D. awarded May 2003
Mary Jean Formati, Counseling Physchology, Ph.D. awarded May 2003
David Relling, Pharmacology, Physiology, and Therapeutics, Ph.D. awarded May 2003
Shaleen Metselaar, Microbiology and Immunology, Ph.D. awarded August 2005
Victor Waingeh, Chemistry Ph.D. awarded May 2006
Kristopher Keusman, Chemistry Ph.D. awarded December 2006
Lata Balakrishnan, BMB Ph.D. awarded August 2007

SERVICE ACTIVITIES

UNIVERSITY OF NORTH DAKOTA COMMITTEES:

Chaired an Ad-Hoc committee on Communication Proficiency during the fall of 2005. Committee drafted a Communications Proficiency Policy for UND and submitted it to Victoria Beard, Associate Provost for Academic Affairs in January of 2006.
Student Relations Committee (January 1999 - present; Co-chair 2003 - present)
Institutional Animal Care and Use Committee (1994 - 2002)
Committee on Conflict of Interest (1997 - 2000)
Faculty Senate (1998 - 1999, 2002 - 2004)
Faculty Ambassadors (Recruitment and Retention, 1998 - present)
Committee on Honorary Degrees (1991 - 1996, 2001 - 2003)
Presidential Advisory Committee on Women - Campus Climate Subcommittee (1995 - 1998)
University Senate Special Review Committee (2001 - 2002)

UND SCHOOL OF MEDICINE AND HEALTH SCIENCES COMMITTEES:

Admissions Committee (1993 - present; Vice-chair 1994 - 1996, 2006, Chair 1999 – 2006. Two years off from service in this period)
Committee on Academic and Professional Qualifications (1996 - 1999; Chair of Tenure Track Subcommittee and Full CAPQ (1997 - 1999)
Medical Curriculum Committee (2006 – present)
Faculty Academic Council, (1993 - 1996, 1998 - 2001)
Library Advisory Committee (1991 - 1996; Chair 1992 - 1995)
LCME Self Study Committee - Medical Students (1998 - 1999); Finance (2005 - 2006)
Committee on Continuing Medical Education (1996 - 1998)
Nominating Committee (1997 - 2000)
Pathophysiology Task Force Member (1996 - 1997)
Department of Physiology CAPQ (1996 - 1997)

PARTICIPATION IN CAREER DEVELOPMENT ACTIVITIES

EDUCATION AND FACULTY DEVELOPMENT WORKSHOPS ATTENDED:

- International Association of Medical Science Educators Faculty Development Webcast "Maximizing Your Leadership Potential" Fall 2007
  - Leadership and the Complexity of Change presented by Nehad El Sawi, Ph.D., A.T. Still University. October 2, 2007
  - Effective Committees/Meetings presented by Franklin J. Medio, PhD., Consulting Services for the Health Professions October 9, 2007
  - Negotiations and Conflict Management presented by Elza Mylona, PhD, Associate Dean of Educational Development and Evaluation State University of New York, Stony Brook, School of Medicine October 16, 2007
  - Leadership in a Changing Environment: Inspiring a Shared Vision presented by Alison Lintner, M.A., The University of Texas Medical Branch October 23, 2007
  - Multi-disciplinary Team Building presented by Stephen Bogdewic, Ph.D., Indiana University School of Medicine October 30, 2007
  - Aspiring to a Leadership Position presented by Thomas Schmidt, PhD Carver College of Medicine, University of Iowa November 13, 2007
- Donald D. Gehring Campus Judicial Affairs Institute (2006). June 28-July 1, University of Utah, Salt Lake City. Attendance made possible by UND Assoc. VP Student Services, Lillian Elsinga

- "The Ethics of Biomedical Research and Practice: The Social Consequences of the New Biology and two other concurrent conferences" Convened by James W. Thomasson, Ph.D. Executive Director of the Woodside Center for Interdisciplinary Studies. Alerus Center, Grand Forks October 24-26, 2005
- AAMC Faculty Affairs Professional Development Conference, July 30 – August 2, 2005, Ottawa Canada
- University of Pittsburgh "11th Annual Conference on Teaching Survival Skills and Ethics." June 12 – 17, 2005, Snowmass CO. Attendance supported by fellowship from the University of Pittsburgh and UND Office of Research Development and Compliance.
- International Association of Medical Science Educators Faculty Development Webcast "Learner Centered Education" Spring 2005
    - A Cognitive Perspective on Learning: Implications for Teaching. Presented by Dr. Geoff Norman, McMaster University
    - Portfolios for Assessing Professional Competence and Promoting Reflective Practice. Presented by Dr. Elaine Dannefer, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
    - Learning Styles . Presented by Dr. Lynn Curry, CurryCorp Inc.
    - Assessing Learning Environments: Context Matters. Presented by Dr. Lynn Robins, University of Washington School of Medicine
    - Concept Mapping – A Tool For Teaching Integrative Thinking. Presented by Dr. John Pelley Texas Tech University Medical Center
- AAMC Faculty Affairs Professional Development Conference in Tampa, FL, January 24 - 27, 2004.
- Biomedical Research Infrastructure Network Primary Investigator Meeting. October 2003 and 2004. NIH Campus
- "Evaluating Teaching: A Workshop for UND Faculty and Departments" by Peter Seldin. October 24, 2003, 9 - noon. University of North Dakota
- International Association of Medical Science Educators Faculty Development Audio Series "Recent Trends in Basic Science Education"
    - Innovative Educational Uses for the Internet. Presented by: Harry Goldberg, Ph.D. December 2, 2003
    - "Merging Basic Science Departments: Improvement or Impairment?" William T. Mallon, Ed.D.Director of Organization and Management Studies Association of American Medical Colleges Washington, DC. January 14, 2003
    - "Defining and Implementing Competency in Basic Science Education" Regina Kreisle, M.D.,Ph.D., Associate Professor of Pathobiology Purdue University and Lafayette Center for Medical Education Lafayette, IN December 5, 2002
    - "Surviving Medical School in the Electronic Age" Presented by Laura Thomas, MS 4 Wayne State University School of Medicine. November 20, 2002
- International Association of Medical Science Educators Faculty Development IAMSE Audio Seminar Series "Learner Centered Education" Spring 2005
    - "A Cognitive Perspective on Learning: Implications for Teaching" Presented by Dr. Geoff Norman, McMaster University, March 8, 2005.
    - "Portfolios for Assessing Professional Competence and Promoting Reflective Practice." Presented by Dr. Elaine Dannefer, Cleveland Clinic Lerner College of Medicine of
    - Case Western Reserve University March 22, 2005
- Sixth Annual Conference on the Reform of Undergraduate Science and Mathematics Education: "Inquiry in the Science and Mathematics Classroom" May 19 21, 2003. Bismarck ND.
- Experimental Biology 2002, New Orleans LA. April 20 - 23, 2002. Attended ASBMB session on Undergraduate Education in Biochemistry
- Project Kaleidoscope (PKAL) 2002 Summer Institute, May 29 - June 1, 2002 Discussions of Effective and Innovative Undergraduate Sciences, Technology, Engineering and Mathematics

(STEM) Education

- AWhat Do the Best Medical Educators Do?@ Fifth annual International Institute, Searle Center for Teaching Excellence and office of Medical Education, Northwestern University. June 2 - 4, 2000
- AIntermediate/Advanced Workshop on Cooperative Learning@ presented by Karl A. Smith, University of Minnesota. UND - Memorial Union, Sioux Room. January 30, 1998 - Noon - 3 p.m.
- "Options in Health Science Education" University of New Mexico Health Sciences Center, Office of Continuing Medical Education, Albuquerque, New Mexico. Topics covered included Problem-based, student centered learning, student assessment, innovative approaches to teaching and learning in an integrated curriculum. February 9 - 14, 1997
- "Critical Thinking Across the Curriculum." February 2, 1996. Ramada Inn University of North Dakota Workshop
- "Cooperative Learning: Effective Teamwork for Engineering Classrooms" presented by Karl A. Smith, University of Minnesota. UND - Witmer Hall room 114. September 14, 1996 - 8:45 - noon
- "Improving Assessment in Basic Science Courses and Clinical Clerkships". By Douglas F. Becker at the UND School of Medicine. December 9, 1993

SERVICE RELATED WORKSHOPS ATTENDED:

- "A Conversation for Change" Campus Climate and Complexion Conference. March 11, 2003. Sponsored by PAC W at the University of North Dakota
- ATraining for Conflict Resolution Center Facilitators@ June 27, 2002. 8:30 - 12:30. Memorial Union, University of North Dakota
- Basic Mediation Seminar offered by the UND Conflict Resolution Center. River Valley Room, Memorial Union on May 14 - 18, 2001 (40 hours).
- AWomen and Leadership in Higher Education Conference@ October 2, 2001 8:30 - 1:00.
- “Analyzing Conflict” Workshop presented by the UND Conflict Resolution Center. April 7, 1998, 8:30 - 4 p.m. Memorial Union, University of North Dakota
- AUnderstanding Stalkers and Stalking@ and AAdjudicating Sexual Assault Cases@ Presented by Nona Wood, M.S. Ed., Associate Director of Student Rights and Responsibilities at North Dakota State University. Co-sponsored by Student Relations Committee, Student Policy Committee, UND Hearing Officers, UND Crisis Team, Vice President Student and Outreach Services, Dean of Students Office, UND Housing Office. River Valley Room, Memorial Union 4:00 - 7:30 pm January 20, 2000
- The 1st Annual Sexual Misconduct Judicial Training Video Seminar. Facilitated by Brett A. Sololow, J.D. Risk Management Consultant. Sponsored by the Student Relations Committee and others. River Valley Room, Memorial Union 12:00 - 4:00 pm September 27, 2000
- “Sexual Harassment in the Work Place. . . Identify. Stop. Prevent.” Sponsored by PAC-W. Fred Orth Lecture Bowl. July 14, 1998, 8:00 am - 12:30
- "Professional Development Seminar for Senior Women in Medicine" sponsored by the American Association of Medical Colleges. Workshops on grant and manuscript writing, job searches, abuse of power in academic settings, and strategies for change in administrative policies. ANA Hotel, Washington D. C. June 29 - July 2, 1996
- "Internal Audits of the Animal Care and Use Program" National Animal Welfare Education Workshop presented by the Office for Protection from Research Risks and the Office of Extramural Research, the National Institutes of Health and Albany State College and the Medical College of Georgia. Augusta Georgia, September 14 -15, 1995
- "Science, Technology and the Christian Faith" sponsored by the CHARIS Ecumenical Center at Concordia College, Moorhead, MN, July 26-29, 1993. Plenary speakers included Troy Duster, of the Institute of Social Change at UC Berkeley ("Social Implications of New Biomedical Technologies") and Karen Lebacqz of the Pacific School of Religion, Berkeley ("Gender, Science and Technology")
- "Creating a Positive Attitude for Lesbians, Gays and Bisexuals" A UND Summer Staff

Development Workshop. Presented by MaryAnne Lustgraaf, Director of the Memorial Union. August 4, 1993

SCIENTIFIC WORKSHOPS ATTENDED:

- AResearch Day >99: Angiogenesis@ Sponsored by the Faculty of Medicine, University of Manitoba. Winnipeg. June 2, 1999, 8:30 am - 6 pm.
- ANorth Dakota EPSCOR Conference on Protein-Protein Interactions@ Presentations by internationally recognized scientists on the approaches to and biological implications of protein protein interactions. University of North Dakota, Grand Forks, ND. May 28-31, 1998
- "New approaches, endpoints, and paradigms for RDAs of mineral elements". Presented jointly by the USDA ARS Human Nutrition Research Center and the School of Medicine, University of North Dakota, Grand Forks North Dakota. September 10 - 12, 1995
- "Vitamin C and Vitamin E in Free Radical Reactions". Federation of American Societies of Experimental Biology Summer Research Conference at Saxon's River, Vermont July 18-24, 1992
- "Protein Sequencing and Peptide Synthesis; Principals, Methods and Applications" at Catholic University in Washington D.C. July 2-7, 1990. Travel award ($1,935) from the Bush Foundation Grant for Faculty Development and Renewal
- "Antioxidants and Degenerative Diseases" UC Berkeley January 26-27, 1990. Travel award ($940) from the Bush Foundation Grant for Faculty Development and Renewal

RESEARCH ACTIVITIES

ACTIVE RESEARCH:

North Dakota Bridges to the Baccalaureate. NIH 1 R25 GM075319-01. Approximately $600,000 over three years. August 2005 – July 2008. K. A. Sukalski, PI.

PREVIOUS RESEARCH SUPPORT:

1995 – 1998 NSF North Dakota EPSCOR CoPI's H. Knull, J. Shabb, R.C. Nordlie, P.D. Ray, D.O. Lambeth, B.I. Milavetz, S. Detke, K. Sukalski, K. Thomasson, D. Killilea, and D.K. Srivastava. KAS $17,000 over the three years.

1995 – 1996	UND Faculty Research Committee.	$ 4,500.
1993 – 1995	USDA NRICGF Seed Grant.	$50,000.
1990 – 1992	NSF Cluster Grant	$23,500
1989 – 1993	SMHS BRSG S07 RR05 407-22	$14,459
	Matching funds from UND	$ 2,275

RESEARCH COLLABORATION:

1. "Dietary trace metals and protection against oxidative damage to intracellular proteins." USDA Agricultural Research Service: Individual Memorandum of Understanding. July 30, 1991-June 30, 1996. William Thomas Johnson USDA, ARS, Grand Forks Human Nutrition Research Center, Collaborator. Manuscript in Free Radicals in Biology and Medicine from work conducted by Thomas LaBerge, BMB MS (1995)

PUBLICATIONS:

Full-Length Manuscripts: Summary: 17 peer-reviewed publications, including original research, reviews, and chapters

1. Vari, R.C., Borg, K.E., McCleary, V.L., McCormack, J.T., Ruit, K.G., **Sukalski, K.A**., and Olson, L.M. (2001) Endocrine physiology in a patient centered learning curriculum. Adv. Physiol. Educ. 25: 241-8.
2. Dumaswala, U.J., Zhuo, L.M., Jacobsen, D.W.. Jain, S.K. and **Sukalski, K.A**. (1999) Protein and lipid oxidation of banked human erythrocytes: role of glutathione. Free Rad. Biol. Med. 27: 1041-9.
3. **Sukalski, K. A**., LaBerge, T.P. and Johnson, W.T. (1997) In vivo oxidative modification of erythrocyte membrane proteins in copper deficiency. Free Rad. Biol. Med. 22: 835-42.
4. **Sukalski, K.A**., Pinto, K.A. and Berntson, J.L. (1993) Decreased susceptibility of liver mitochondria from diabetic rats to oxidative damage and associated increase in _-tocopherol. Free Rad. Biol. Med. 14: 57-65.
5. Nordlie, R.C., **Sukalski, K.A**. and Johnson, W.T. (1993) Human microsomal glucose-6-phosphatase system. Eur. J. Pediatr. 152 [Suppl 1]: S1-S6.
6. Nelson-Rossow, K.L., **Sukalski, K.A.** and Nordlie, R.C. (1993) Hystersis at near-physiologic substrate concentrations underlies apparent sigmoid kinetics of the glucose-6-phosphatase system. Biochim. Biophys. Acta 1163: 297-302.
7. Foster, J.D., Nelson, K.L., **Sukalski, K.A**., Lucius, R.W. and Nordlie, R.C. (1991) Hysteretic behavior of the hepatic microsomal glucose-6-phosphatase system. Biochim. Biophys. Acta 1118: 91-98.
8. Ness, G.C., **Sukalski, K.A**., Sample, C.E., Pendleton, L.F., McCreery, M.J., and Nordlie, R.C. (1989) Radiation inactivation of rat liver microsomal glucose-6-phosphatase. J. Biol. Chem. 264, 7111-4.
9. **Sukalski, K.A**. and Nordlie, R.C. (1989) Glucose-6-phosphatase: Membrane/function interrelationships. Advances in Enzymology, 62, 93-117.
10. Nordlie, R.C. and Sukalski, K.A. (1986) Multiple forms of type I glycogen storage disease: Underlying mechanisms. Trends in Biochemical Sciences, 11, 88-93.
11. **Sukalski, K.A**. and Nordlie, R.C. (1986) Implications of distinct inhibitory effects of N-Acetylglucosamine on glucose uptake by an isolated perfusion system incorporating erythrocytes with livers from fed and 48-hour fasted rats. J. Biol. Chem. 261, 6860-7.
12. Nordlie, R.C., Singh, J., and **Sukalski, K.A**. (1986) N-acetylglucosamine-insensitive glucose phosphorylation in isolated hepatocytes from 48-hour fasted rats. Biochim. Biophys. Acta, 889, 179-82.
13. Nordlie, R.C. and **Sukalski, K.A.** (1984) Multifunctional glucose-6-phosphatase: A critical review. in Martonosi, A.N. (ed.), The Enzymes of Biological Membranes, 2nd edition, Plenum Press, New York, pp. 349-98.
14. Nordlie, R.C., **Sukalski, K.A**., Munoz, J.M., and Baldwin, J.J. (1983). Type Ic, a novel glycogenosis: Underlying mechanism. J. Biol. Chem. 258, 9739-44.
15. Nordlie, R.C. and **Sukalski, K.A.** (1982) Multifunctional glucose-6-phosphatase and the regulation of metabolic flux through the glucoseWglucose-6-phosphate cycle in liver. in Biochemistry of Metabolic Processes, (Lennon, D., Stratman, F.W., and Zahlten, R.N. eds.), Elsevier, New York, pp. 125-38.
16. Nordlie, R.C., Alvares, F.L., and **Sukalski, K.A**. (1982) Stimulation by 3-mercaptopicolinate of net glucose uptake by perfused livers from diabetic rats. Biochim. Biophys. Acta, 719, 244-50.
17. Nordlie, R.C., **Sukalski, K.A**., and Alvares, F.A. (1980) Responses of glucose-6-phosphate levels to varied glucose loads in the isolated perfused rat livers. J. Biol. Chem. 255, 1834-8.

Abstracts: Summary: 25 published abstracts

1. **Sukalski, K.A**., Fox, L., Moulton, P., Flower, A.M., Burns, E. B., McHugo, J., Larson, A. (2008) A career management program for basic science junior faculty. Submitted to Experimental Biology 2008. April 5-9, 2008. San Diego CA. FASEB J. XX
2. Fox, L., Moulton, P., **Sukalski, K.A**., Flower, A.M., Burns, E. B., McHugo, J., Larson, A. Developing a Career Management Program in a Community-based Medical School. Poster presentation at the 2007 AAMC Annual Meeting Women in Medicine Reception. November 4,

2007, Washington D.C.

3. **Sukalski, K.A.**, Schwert, D. P., and Montplaisir, L.M. (2006) Graduate Teaching Internships: Using an NIH Bridges to the Baccalaureate Program to Benefit both Tribal Colleges and Graduate Education in the Sciences FASEB J. 21 479.8.
4. **Sukalski, K.A.**, Rieke, J.L., and Shabb, J.B. (2003) Improving access to electronic resources at undergraduate baccalaureate college and tribal colleges and promoting their use in science education. FASEB J. 17(5): A817.
5. **Sukalski, K.A.**, Schwert, D.P., and Shabb, J.B. (2003) Biomedical Research Capacity Building at Predominately Undergraduate Institutions in North Dakota. Proc. ND Acad. Sci. 57.
6. van Gijssel, H.E., Shabb, J.B., Schwert, D. P., **Sukalski, K.A**. (2003) Improving Accessibility and Participation of Students of Small Baccalaureate and Tribal Colleges to Research Seminars Using an Interactive Video Network (IVN). Molecular & Cellular Proteomics 2, 749 (abstract 37.5).
7. **Sukalski, K.A.**, Schwert, D. P., Shabb, J.B. (2003) Graduate Teaching Internships: A Means of Enhancing Science Instruction and Research at Predominately Undergraduate Institutions in North Dakota. Molecular & Cellular Proteomics 2, 749 (abstract 37.4).
8. Dumaswala, U.J., Wilson, M., Zhuo, L., Wykle, J., **Sukalski, K**. and Daleke, D. (1999) Loss of glutathione in aged erythrocytes results in modification of membrane proteins and lipids. FASEB J. 13: A562.
9. Dumaswala, U.J., Zhuo, L.M. and **Sukalski, K.A**. (1998) Bands 3 and 4.1 Protein Loss in Banked Red Blood Cells (RBCs) is a Result of Oxidative Stress. FASEB J. 12: A1010.
10. **Sukalski, K.A**., Arneson, R.K., and LeMon, M.K. (1997) Association of GAPDH with actin or tubulin fails to protect the enzyme from iron/ascorbate-induced loss of activity. FASEB J. 11: A122.
11. Johnson, W.T. Arya, A. and **Sukalski, K.A**. (1995) Copper deficiency increases hepatic reductase activities. FASEB J. 9 A735.
12. Foster, J.D., Pederson, B.A., **Sukalski, K.A**., Robbins, B.L., Nordlie, M.A. Hartman, F.C. and Nordlie, R.C. (1994) Inhibition of the glucose-6-phosphatase system by N-bromoacetylethanolamine phosphate (BAEP) FASEB J. 8 A1449.
13. **Sukalski, K.A.** and Sierra, M. (1994) 2,2'-Azobis(2-amidinopropane-induced modification of protein in egg phosphatidylcholine liposomes. FASEB J. 8 A804.
14. **Sukalski, K.A**. and Sierra, M. (1993) 2,2'-Azobis(2-amidinopropane-induced modification of protein in egg phosphatidylcholine liposomes. Free Rad. Biol. Med. 15 540.
15. **Sukalski, K.A**., Bode, A.M., Berntson, J.L. and Fry, D. (1992) The involvement of _-tocopherol and other antioxidants in preventing in vitro oxidant damage to liver and kidney mitochondria from diabetic rats. FASEB J. 6 A1952.
16. Berntson, J.L. and **Sukalski, K.A.** (1992) Levels of _-tocopherol in liver mitochondria from diabetic and normal rats and their relationship to oxidative status. Proc. ND Acad. Sci. 46, 43.
17. **Sukalski, K.A.** and Pinto, K. (1991) Liver and kidney mitochondrial antioxidant enzymes and the susceptibility of mitochondria to oxidant damage in vitro FASEB J. 5 A1281.
18. **Sukalski, K.A**. and Pinto, K. (1990) Diabetic rat liver mitochondrial susceptibility to in vitro oxidation FASEB J. 4 A2210.
19. **Sukalski, K.A**., Nelson, K.L. and Nordlie, R.C. (1989) Hysteresis of glucose-6-phosphatase of intact microsomes. J. Cell. Biol. 107, 399a.
20. Nelson, K.L., **Sukalski, K.A**., and Nordlie, R.C. (1989) Glucose-6-phosphatase as a site of regulation of blood glucose in two model systems: The diabetic rat and tumor-bearing mouse. Proc. N. Dak. Acad. Sci., 43, 66.
21. Nordlie, R.C., Traxinger, R.R. and **Sukalski, K.A.** (1987) Sigmoid kinetics of glucose-6-phosphatase: Physiological significance. Abstracts of Canadian Federation of Biological Societies/Pan-American Association of Biochemical Societies, p. 20 (Abst. TU-PA-65).
22. Ness, G.C., Sample, C.E., McCreery, M.J., **Sukalski, K.A**., and Nordlie, R.C. (1986) Functional molecular weight of rat liver glucose-6-phosphatase. Fed. Proc., 45, 1841.
23. Nordlie, R.C., Singh, J., and **Sukalski, K.A**. (1985) N-acetylglucosamine-insensitive glucose phosphorylation in isolated hepatocytes from 48-hour fasted rats. Abstracts of 13th Intl.

Congress of Biochemistry, p. 529, Abstr. TH-338.

24. Nordlie, R.C., Stepanik, P.A., Traxinger, R.A., and Sukalski, K.A. (1985) Comparative latencies of microsomal Glucose-6-phosphatase with carbamyl-P and glucose-6-P: Underlying mechanisms. Fed. Proc., 44, 1405.
25. Nordlie, R.C., **Sukalski, K.A**., and Robbins, B.L. (1984) Some unique aspects of multifunctional glucose-6-phosphatase. Fed. Proc., 43, 1960.
26. **Sukalski, K.A.** and Nordlie, R.C. (1983) Absence of inhibition by N-acetyl-glucosamine of net glucose uptake in perfused livers of fasted rats: Mechanistic basis. Fed. Proc. 42, 2165.
27. Nordlie, R.C., **Sukalski, K.A.,** and Singh, J. (1982) Identity of enzymes involved in glucose/ glucose-6-phosphate cycling in liver. Fed. Proc. 41, 509.
28. Nordlie, R.C. and **Sukalski, K.A**. (1980) Glucose-stimulated flux from glucose to glycogen in the presence of elevated hepatic glucose-6-phosphatase: Roles of glucose-6-phosphatase. Fed. Proc. 39, 2146.

Invited Extramural Talks:

1. Oxidative modification of cellular proteins: Importance of macromolecular associations. (1996) Grand Forks USDA Human Nutrition Research Center Seminar Series
2. Antioxidant status and oxidative damage in diabetes. (1991) North Dakota State University Chapter of Sigma Xi in Fargo North Dakota.
3. Antioxidant status and oxidative damage to membranes in diabetes. (1991) Sigma Xi Exchange with the University of Manitoba, Winnipeg.

Other Presentations:

1. **Sukalski, K.A**.*, McCleary, V.L.*, O'Neill, P, Schill, M. J., Moreno, J. "Teaching in a Second Language: Steps to Success" a panel discussion presented at UND Reflecting on Teaching, an All Campus Colloquium. September 23, 2005. *Co-facilitators.
2. **Sukalski, K.A** and Guy, M. (2004) Distance Learning and Laboratory Science Curriculum Enhancement. American Indian Higher Education Conference. (Oral presentation)
3. **Sukalski, K.A**., Schwert, D.P., Shabb, J.B. (2003) Graduate Teaching Internships: A Means of Enhancing Science Instruction and Research at Predominately Undergraduate Institutions in North Dakota. Poster presented at "Reflecting on Teaching: An All Campus Colloquium" Sponsored by University of North Dakota Office of Instructional Development.
4. **Sukalski, K.A.,** McCleary, V.L., and Vari, R.C. (2002) Incorporation of Nutrition into the First and Second Years of a Newly Established Integrated Medical Curriculum. UNDSM Frank Low Research Day (Poster)
5. **Sukalski, K.A**., McCleary, V.L., and Vari, R.C. (2001) Incorporation of Nutrition into the First and Second Years of a Newly Established Integrated Medical Curriculum. 5th Annual Meeting of the International Association of Medical Science Educators (IAMSE) (Poster).
6. **Sukalski, K.A.,** LeMon, M.K., and Arneson, R.K. (1997) Iron/ascorbate-mediated changes in glycolytic enzyme-cytoskeletal protein interactions. Joint North Dakota/South Dakota State EPSCOR Conference. (Platform Talk)
7. **Sukalski, K.A.,** Arneson, R. K. and LeMon, M.K. (1997) Modification of aldolase and glyceraldehyde-3-phosphate dehydrogenase by 4-hydroxynonenal: effect on protein-protein interaction. Joint North Dakota/South Dakota State EPSCOR Conference (Poster)
8. **Sukalski, K.A**., LeMon, M.K., and Arneson, R.K. (1997) Iron/ascorbate-mediated changes in protein-protein interactions. Oxygen '97 (Poster)
9. **Sukalski, K.A**., Arneson, R. K. and LeMon, M.K. (1997) Modification of glycolytic enzymes by 4-hydroxynonenal: effect on protein-protein interaction. Oxygen '97 (Poster)
10. Sierra, M.A. and **Sukalski, K.A**. (1995) 2,2'-Azobis(2-amidinopropane-induced modification of cytochrome b5 in egg phosphatidylcholine liposomes. UNDSM Frank Low Research Day. (Poster)
11. LaBerge, T. P. and **Sukalski, K.A** (1995) Age-related changes of antioxidant enzyme levels in copper deficient rats. UNDSM Frank Low Research Day (Poster)
12. Sierra, M.A. and **Sukalski, K.A**. (1995) Modification of histidine residues in liposomally-

associated cytochrome b5 exposed to 2,2'-Azobis(2-amidino-propane). Oxygen '95. (Poster)

13. **Sukalski, K. A**., LaBerge, T.P. and Johnson, W.T. (1995) In vivo oxidative modification of erythrocyte membrane proteins in copper deficiency. Oxygen ’95 (Poster)
14. **Sukalski, K.A**., Pinto, K.A. and Berntson, J.L. (1993) Antioxidant Status and Oxidative Damage in Diabetes. UND SMHS Frank Low Research Day (Poster)
15. **Sukalski, K.A.** (1990) Sulfhydryl loss of liver mitochondrial and microsomal preparations upon in vitro oxidation. UND SMHS Frank Low Research Day (Poster)
16. **Sukalski, K.A**., Traxinger, R.R., and Nordlie, R.C. (1987) Sigmoid kinetics of glucose-6-phosphatase at near physiological glucose-6-phosphate concentrations. UND SMHS Frank Low Research Day (Platform Presentation)
17. Nordlie, R.C., **Sukalski, K.A**., Munoz, J.M., and Baldwin, J.J. (1983) Type Ic, a novel glycogenosis. UND SMHS Frank Low Research Day. (Poster)
18. Nordlie, R.C., **Sukalski, K.A**., Singh, J., and Alvares, F.L. (1982) Mechanisms of hepatic glucose phosphorylation. Abstr. 12th Intl. Congress of Biochem., p. 121, Abstr. 001-117. (Poster)

OTHER ACTIVITIES

Recent Presentations:

- "Active Learning in Secondary and College Science Classrooms" written by Joel Michael and Harold Modell. September and October 2005, Co-Facilitator with Vikki McCleary of a 5-part discussion of the book. Six SMHS faculty regularly attended the discussion. Dr. McCleary arranged for Joel Michael to visit UND and give a presentation
- “Teaching in a Second Language: Steps to Success” a panel discussion presented at UND Reflecting on Teaching, an All Campus Colloquium. September 23, 2005. Presenters were Kathy Sukalski*, Vikki McCleary,* Patrick O’Neill, Mary Jo Schill, and Juana Moreno. *Co-facilitators.
- “Professional Ethics: A Perspective for Incoming Graduate Students” presented at the UND Graduate School Orientation on August 18, 2005
- “Responsible Conduct of Research.” UND Department of Physics, Research Experience for Undergraduates, July 14, 2007. Ten to noon Room 215. Seven undergraduates, Tim Young and Dr. William Schwalm (Physics Faculty)

Science Fairs

- Coordinated group of five from UND to serve as judges at the North Dakota Central Region Science Fair in March 1991 - 2003. Fair held at UND-Lake Region Junior College in Devils Lake.
- Participated as a judge at the Northeast Region Science Fair held in the Memorial Union at the University of North Dakota. March 1998 - 2003.

Campus Community

- Co-Advisor to the UND American Indian Science and Engineering Society (AISES) Chapter. 2005 - present.
- Member of Christus Rex Coordinating Ministry (ELCA Lutheran Campus Ministry at the University of North Dakota). Member of Education Ministry of the same. Long term involvement.