

Curriculum Vitae
Norbert W. Seidler, Ph.D.

Professor and Chairman
Department of Biochemistry
Kansas City University of Medicine and Biosciences
1750 Independence Avenue
Kansas City, Missouri 64106
816-283-2207 (office)
816-283-2357 (fax)
nseidler@kcumb.edu

Protein Biochemist

Research Focus: Effects of glycation on protein structure
{diabetes mellitus, atherosclerosis, and the chronic diseases of aging}

Education

A.B. (Psychology) June 1981
Princeton University
Princeton, New Jersey

Ph.D. (Biochemistry) May 1988
University of Medicine and Dentistry of New Jersey
Graduate School of Biomedical Sciences
Newark, New Jersey

Postdoctoral Training

April 1988 to July 1991
Postdoctoral Research Associate: Prepared research protocols and conducted experiments independently; developed new methodologies; presented seminars; instructed lab personnel and med students. Studies involved the sarcoplasmic reticulum Ca^{2+} -ATPase and related ATPases.
Department of Biochemistry and Molecular Biology
State University of New York- Health Science Center at Syracuse
Syracuse, New York

Current Faculty Appointment

July 2004 to the Present
Chairman and Professor of Biochemistry: major responsibilities include teaching medical students, conducting research, mentoring student/resident researchers, section director, member of Appeals Board, chair of two University Committees (Promotion and Graduation and Academic Accessibility Committees) and chairing the Department of Biochemistry.
Department of Biochemistry
Kansas City University of Medicine and Biosciences
Kansas City, Missouri

Faculty Appointments (continued)

March 2000 to June 2004

Professor of Biochemistry: major responsibilities include teaching medical students, conducting research, mentoring student researchers, grant writing, drafting committee policies and chairing University Committees.

Department of Biochemistry

Kansas City University of Medicine and Biosciences (formerly University of Health Sciences)

Kansas City, Missouri

July 1995 to March 2000

Associate Professor of Biochemistry: major responsibilities include teaching medical students, conducting research, mentoring student researchers, coordinating/developing courses and chairing University Committees.

Department of Biochemistry

Kansas City University of Medicine and Biosciences (formerly University of Health Sciences)

Kansas City, Missouri

September 1991 to June 1995

Assistant Professor of Biochemistry: major responsibilities included teaching medical students, conducting research, mentoring student researchers and serving on the Faculty Senate and University Committees.

Department of Biochemistry

Kansas City University of Medicine and Biosciences (formerly University of Health Sciences)

Kansas City, Missouri

Research Publications

1. Freund TS, Hermann G, Hayes R, **Seidler N**: High affinity calcium binding proteins in human saliva. In Calcium Binding Proteins to Health and Disease (B. de Bernard et al., eds) 1983;71-72, Amsterdam: Elsevier Press.
2. Lea MA, Grasso SV, Hu J, **Seidler N**: Factors affecting the assay of histone H1 and polylysine by binding of Coomassie Blue G. *Anal Biochem* 1984;141:390-396.
3. Bennun A, **Seidler NW**, DeBari VA: Divalent metals in the regulation of hemoglobin affinity for oxygen. *Ann NY Acad Sci* 1985;463:76-79.
4. Bennun A, **Seidler NW**, DeBari VA: A model for the regulation of hemoglobin affinity for oxygen. *Biochem Soc Trans* 1985;13:364-366.
5. **Seidler NW**, Jona I, Vegh M, Martonosi A: Cyclopiazonic acid is a specific inhibitor of the Ca²⁺ ATPase of sarcoplasmic reticulum. *J Biol Chem* 1989;264:17816-17823
6. Molnar E, **Seidler NW**, Jona I, Martonosi A: The binding of monoclonal and polyclonal antibodies to the Ca²⁺ ATPase of sarcoplasmic reticulum; effects on interactions between ATPase molecules. *Biochim Biophys Acta* 1990;1023:147-167.

7. Martonosi AN, Jona I, Molnar E, **Seidler NW**, Buchet R, Varga S: Emerging views on the structure and dynamics of the Ca^{2+} ATPase in sarcoplasmic reticulum. *FEBS Lett* 1990;268:365-370.
8. **Seidler NW**, Swislocki NI: Ca^{2+} transport activities of inside-out vesicles prepared from density-separated erythrocytes from rat and human. *Molec Cell Biochem* 1991;105:159-169.
9. Buchet R, Varga S, **Seidler NW**, Molnar E, Martonosi A: Polarized infrared attenuated total reflectance spectroscopy of the Ca^{2+} -ATPase of sarcoplasmic reticulum. *Biochim Biophys Acta* 1991;1068:201-216.
10. Molnar E, Varga S, Jona I, **Seidler NW**, Martonosi A: Immunological relatedness of the sarcoplasmic reticulum Ca^{2+} -ATPase and the Na^+ , K^+ ATPase. *Biochim Biophys Acta* 1992;1103:281-295.
11. **Seidler NW**, Swislocki NI: The effects of pentoxifylline on the plasma membrane Ca^{2+} ATPase in age-separated rat and human erythrocytes. *J Clin Pharmacol* 1992;32:332-337.
12. Russo PJ, Phillips JW, **Seidler NW**: The role of lipid peroxidation in McArdle's Disease: applications for treatment of other myopathies. *Med Hypotheses* 1992;39:147-151.
13. Russo PJ, **Seidler NW**: NSAID-induced gastroenteropathy: a biochemical dissection. *Hospital Practice* 1992;27:123-132.
14. Gatton-Umphress TL, Weber KA, **Seidler NW**: Methionine metabolism: a window on carcinogenesis? *Hospital Practice* 1993;28:83-90.
15. Rajguru SU, Yeargans GS and **Seidler NW**: Exercise causes oxidative damage to rat skeletal muscle microsomes while increasing cellular sulfhydryls. *Life Sciences* 1994;54:149-157.
16. Guichard PC, Burkhardt JE, **Seidler NW**: Diabetic cardiomyopathy: the significance of creatine. *Med Hypotheses* 1995;45:41-44.
17. Kraft A, Cassetta M, **Seidler NW**: Inhibition of the cardiac sarcoplasmic reticulum Ca^{2+} -ATPase by glucose 6-phosphate is Ca^{2+} dependent. *Life Sciences* 1998;62:283-291.
18. Fitzgerald C, Swearingin TA, Yeargans G, McWhorter D, Cucchetti B, **Seidler NW**: Non-enzymatic glycosylation (or glycation) and inhibition of the pig heart cytosolic aspartate aminotransferase by glyceraldehyde 3-phosphate. *J Enzym Inhib* 1999;15:79-89.

19. Swearingin TA, Fitzgerald C, **Seidler NW**: Carnosine prevents glyceraldehyde 3-phosphate-mediated inhibition of aspartate aminotransferase. *Arch Toxicol* 1999;73:307-309.
20. **Seidler NW**: Carnosine prevents the glycation-induced changes in electrophoretic mobility of aspartate aminotransferase. *J Biochem Molec Toxicol* 2000;14:215-220
21. **Seidler NW**, Seibel I: Glycation of aspartate aminotransferase and conformational flexibility. *Biochem Biophys Res Commun* 2000;277:47-50.
22. **Seidler NW**, Shokry SS, Nauth J: Properties of a glycation product derived from carnosine. *J Biochem Mol Biol Biophys* 2001;5:153-162.
23. **Seidler NW**, Yeargans GS: Effects of thermal denaturation on protein glycation. *Life Sci* 2002;70:1789-1800.
24. Southwell JL, Yeargans GS, Kowalewski C, **Seidler NW**: Effects of acrolein on cytosolic aspartate aminotransferase. *J Enz Inhib Med Chem* 2002;17:19-23.
25. **Seidler NW**, Kowalewski C: Methylglyoxal-induced glycation affects protein topography. *Arch Biochem Biophys* 2003;410:149-154.
26. Yeargans GS, **Seidler NW**: Carnosine promotes the heat denaturation of glycated protein. *Biochem Biophys Res Commun* 2003;300:75-80.
27. Hobart LJ, Seibel I, Yeargans GS, **Seidler NW**: Anti-crosslinking properties of carnosine: significance of histidine. *Life Sciences* 2004;75:1379-1389.
28. **Seidler NW**, Yeargans GS, Morgan TG: Carnosine disaggregates glycated α -crystallin: an in vitro study. *Arch Biochem Biophys* 2004;427:110-115.
29. **Seidler NW**, Yeargans GS: Albumin-bound polyacrolein: implications for Alzheimer's disease. *Biochem Biophys Res Commun* 2004;320:213-217.
30. Mehta, AD, **Seidler NW**: β -Alanine suppresses heat inactivation of lactate dehydrogenase. *J Enz Inhib Med Chem* 2004; 20(2):199-203.
31. **Seidler NW**: Carbonyl-induced enzyme inhibition: mechanisms and new perspectives. *Current Enzyme Inhibition* 2005; 1(1):21-27.

Research Abstracts

(From 1992 to the Present)

1. Effects of aging and exercise on protein sulfhydryls in various tissues of the rat. SU Rajguru, GS Yeargans, **NW Seidler**. Presented at the Inaugural Symposium on Molecular Mechanisms of Aging sponsored by SEP (Marion Merrill Dow Foundation, University of Kansas and University of Missouri, Kansas City), Kansas City, Missouri, October 15-18, 1992.

2. Effects of exercise on the phospholipid and malondialdehyde levels in cardiac and skeletal muscle sarcoplasmic reticulum from sedentary young and old rats. GS Yeargans, SU Rajguru, **NW Seidler**. Presented at the Inaugural Symposium on Molecular Mechanisms of Aging sponsored by SEP (Marion Merrill Dow Foundation, University of Kansas and University of Missouri, Kansas City), Kansas City, Missouri, October 15-18, 1992.
3. NSAID-induced gastroenteropathy: the role of glutathione-reactive leukotrienes. PJ Russo, **NW Seidler**. Presented at the AOA 36th Annual Research Conference, San Diego, California, November 1-4, 1992. *Journal of the American Osteopathic Association* (1992) 92: 1131, abstr. 009.
4. Protein crosslinking in skeletal muscle after exhaustive exercise of sedentary rats. GS Yeargans, SU Rajguru, **NW Seidler**. Presented at Experimental Biology '93 (FASEB Meeting), New Orleans, Louisiana, March 28-April 1, 1993.
5. The role of lipid peroxidation in McArdle's disease. PJ Russo, JW Phillips, **NW Seidler**. Presented at the First Annual UHS Research Symposium, Kansas City, Missouri, April 23, 1993.
6. NSAID-induced gastroenteropathy. PJ Russo, **NW Seidler**. Presented at the First Annual UHS Research Symposium, Kansas City, Missouri, April 23, 1993.
7. The pathogenesis of cancer: a look at methionine. TL Gatton-Umphress, **NW Seidler**. Presented at the First Annual UHS Research Symposium. Kansas City, Missouri, April 23, 1993.
8. The effects of exercise on various tissues. SU Rajguru, **NW Seidler**. Presented at the First Annual UHS Research Symposium, Kansas City, Missouri, April 23, 1993.
9. Oxidative damage in aging. G Yeargans, **NW Seidler**. Presented at the First Annual UHS Research Symposium, Kansas City, Missouri, April 23, 1993.
10. The role of environmentally-induced inactivation of antithrombin III in cerebrovascular insufficiency. KA Weber, **NW Seidler**. Presented at the AOA 37th Annual Research Conference Boston, Massachusetts, October 10-14, 1993, *Journal of the American Osteopathic Association* (1993) 93:867, abstr. 002.
11. Substance P and increased intestinal permeability in inflammatory bowel disease. PJ Russo, **NW Seidler**. Presented at the AOA 37th Annual Research Conference. Boston, Massachusetts, October 10-14, 1993, *Journal of the American Osteopathic Association* (1993) 93:867, abstr. 003.
12. Effects of cytoprotective amines on cardiac tissue. JE Burkhardt, F Farokhi, CA Sites, PC Guichard, **NW Seidler**. Presented at the AOA 37th Annual Research Conference, Boston, Massachusetts, October 10-14, 1993, *Journal of the American Osteopathic Association* (1993) 93:867, abstr. 004.

13. Methionine metabolism and carcinogenesis. TL Gatton-Umphress, KA Weber, **NW Seidler**. Presented at the 1st Annual Meeting of The Oxygen Society, Charleston, South Carolina, November 12-17, 1993.
14. Diabetic cardiomyopathy: the significance of creatine. P Guichard, **NW Seidler**. Presented at the Second Annual UHS Research Symposium, Kansas City, Missouri, April 1, 1994.
15. Molecular modeling of antithrombin and its interactions. KA Weber, **NW Seidler**. Presented at the AOA 38th Annual Research Conference, San Fransico, California, November 13-17, 1994, Journal of the American Osteopathic Association (1994) 94:675, abstr. 004.
16. Effects of acetaldehyde on cardiac cytosolic proteins. PC Guichard, **NW Seidler**. Presented at the AOA 38th Annual Research Conference, San Fransico, California, November 13-17, 1994, Journal of the American Osteopathic Association (1994) 94:675, abstr. 005.
17. Chemical modification of cardiac cytosolic components by acetaldehyde. F Farokhi, **NW Seidler**. Presented at the American College of Physicians Annual Session, Atlanta, Georgia, March 17-19, 1995.
18. Decrease in amines in cardiac cytosols following incubation with acetaldehyde. F Farokhi, PC Guichard, **NW Seidler**. Presented at Experimental Biology '95(FASEB Meeting), Atlanta, Georgia, April 9-13, 1995, FASEB Journal (1995) 9:A895, abstr. 5197
19. Evidence for a carbohydrate-mediated inhibition of cardiac sarcoplasmic reticulum Ca²⁺-ATPase activity. **NW Seidler**, A Kraft, P Freeman. Presented at the 2nd Annual Meeting of The Oxygen Society, Pasadena, California, November 16-20, 1995.
20. A model implicating S-adenosylmethionine depletion as a causal factor in carcinogenesis. **NW Seidler**, WC Snider. Presented at the 2nd Annual Meeting of The Oxygen Society, Pasadena, California, November 16-20, 1995.
21. Evidence for a carbohydrate-mediated inhibition of cardiac sarcoplasmic reticulum Ca²⁺-ATPase activity. A Kraft, **NW Seidler**. Presented at the Fourth Annual UHS Research Symposium, Kansas City, Missouri, May 10, 1995.
22. A model implicating S-adenosylmethionine depletion as a causal factor in carcinogenesis. WC Snider, **NW Seidler**. Presented at the Fourth Annual UHS Research Symposium, Kansas City, Missouri, May 10, 1995.
23. Effects of glyceraldehyde 3-phosphate on rat cardiac microsomes. **NW Seidler**, M Cassetta. Presented at the 3rd Annual meeting of The Oxygen Society, Miami, Florida, November 21-25, 1996.
24. Reactivity of glyceraldehyde 3-phosphate on diverse amines. M Cassetta, L Smith, G Yeargans, **NW Seidler**. Presented at the Fifth Annual UHS Research Symposium, Kansas City, Missouri, May 9, 1997.

25. Glyceraldehyde 3-phosphate reacts with non-protein amines and protein amino groups. M Cassetta, L Smith, G Yeargans, A Kraft, **NW Seidler**. Presented at the AOA 41st Annual Research Conference, San Antonio, Texas, October 19-23, 1997, Journal of the American Osteopathic Association (1997) 97:543, abstr. P49.
26. α , β , and γ -Amino acids as model compounds for cardioprotective agents. **NW Seidler**. Presented at the UHS Seminar Series, University of Health Sciences, Kansas City, Missouri, November 7, 1997.
27. Aldehyde scavengers: a potentially new category of cardioprotective agents. **NW Seidler**. Presented at Cardiovascular Day V, University of Missouri- Columbia, Columbia, Missouri, February 9, 1998.
28. Analysis of rat cardiac microsomal proteins following incubation with calpain. B Cucchetti, **NW Seidler**. Presented at the Sixth Annual UHS Research Symposium, Kansas City, Missouri, February 27, 1998.
29. Changes in differential centrifugation affect the yield and purity of cardiac transverse tubules. C Fitzgerald, T. Swearengin, **NW Seidler**. Presented at the Sixth Annual UHS Research Symposium, Kansas City, Missouri, February 27, 1998.
30. Proteolysis of the cardiac sarcoplasmic reticulum Ca^{2+} -ATPase by calpain. **NW Seidler**, B Cucchetti. Presented at the 42nd Annual Meeting of the Biophysical Society, Kansas City, Missouri, February 22-26, 1998, Biophysical Journal (1998) 74:A360.
31. Inhibition of porcine heart cytosolic aspartate transaminase by glyceraldehyde 3-phosphate. C Fitzgerald, T Swearengin, D McWhorter, G. Yeargans, B Cucchetti, **NW Seidler**. Presented at the 42nd Annual AOA Research Conference, New Orleans, Louisiana, October 5-9, 1998, Journal of the American Osteopathic Association (1998) 98:454, abstr. B21.
32. Modulation of the inhibitory effects of glyceraldehyde 3-phosphate on cardiac aspartate aminotransferase. T. Swearengin, C Fitzgerald, G Yeargans, D McWhorter, S Shokry, **NW Seidler**. Presented at the Seventh Annual UHS Research Symposium, Kansas City, Missouri, January 15, 1999.
33. Carnosine has a high affinity to cardiac aspartate aminotransferase. G Yeargans, **NW Seidler**. Presented at the 1st Annual Southwest Missouri Collegiate Chemistry Symposium, Southwest Missouri State University, Springfield, Missouri, March 27, 1999.
34. Carnosine prevents glyceraldehyde 3-phosphate mediated inhibition of the cardiac aspartate aminotransferase. **NW Seidler**, TA Swearengin, GS Yeargans. Presented at the 16th American Peptide Symposium, Minneapolis, Minnesota, June 26 - July 1, 1999.
35. Carnosine preserves protein structure. T. Swearengin, **NW Seidler**. Presented at the 43rd Annual AOA Research Conference, San Francisco, California, October 24-28, 1999, Journal of the American Osteopathic Association (1999) 99:483, abstr. B18.

36. L-Carnosine (β -alanyl-L-histidine) and L-histidine but not β -alanine prevent protein glycation. **NW Seidler**, SS Shokry, J Nauth. Presented at the 6th Annual Meeting of The Oxygen Society, New Orleans, Louisiana, November 21-25, 1999, Free Radical Biology and Medicine (1999) 27:S98, abstr. 302.
37. Aspartate aminotransferase as a model system for studying glycation reactions: implications for ageing, atherosclerosis and Alzheimer's disease. **NW Seidler**. Pharma-Transfer (Online Publishing Group), Ballantyne Ross, Ltd., www.pharma-transfer.com, April 4, 2000.
38. Glycation in skeletal muscle: a comparison of extensor digitorum longus and soleus muscles from swim exercised rats. DL McWhorter, **NW Seidler**, GS Yeargans. Presented at Experimental Biology 2000, San Diego, California, April 15-18, 2000, FASEB Journal (2000) 14:A620, abstr. 455.21.
39. Glycation-Induced Modification of L-Carnosine. SS Shokry, **NW Seidler**. Presented at the Eighth Annual UHS Research Symposium, Kansas City, Missouri, April 28, 2000.
40. Appearance of a Fluorescent Glycation Product Following Incubation of L-Carnosine with Glyceraldehyde 3-Phosphate. J Nauth, **NW Seidler**. Presented at the Eighth Annual UHS Research Symposium, Kansas City, Missouri, April 28, 2000.
41. Aspartate aminotransferase interactions with carnosine. GS Yeargans, **NW Seidler**. Presented at the 44th Annual AOA Research Conference, Orlando, Florida, October 29-November 1, 2000. Journal of the American Osteopathic Association (2000) 100:583, abstr. B17.
42. Absorbance properties of a carnosine-containing glycation product. SS Shokry, **NW Seidler**. Presented at the 44th Annual AOA Research Conference, Orlando, Florida, October 29-November 1, 2000. Journal of the American Osteopathic Association (2000) 100:585, abstr. B23.
43. A fluorescent glycation product derived from carnosine. J Nauth, SS Shokry, **NW Seidler**. Presented at the 44th Annual AOA Research Conference, Orlando, Florida, October 29-November 1, 2000. Journal of the American Osteopathic Association (2000) 100:583, abstr. B16.
44. Effects of protein glycation on 1-anilinoanthracene 8-sulphonate binding. **NW Seidler**, I Seibel. Presented at the 7th Annual Meeting of the Oxygen Society, San Diego, California, November 16-20, 2000, Free Radical Biology and Medicine (2000) 29:S85, abstr. 262.
45. Association between acrolein and hydrogen peroxide on protein modification. JL Southwell, **NW Seidler**. Presented at the Ninth Annual UHS Research Symposium, Kansas City, Missouri, April 13, 2001.
46. Lipoxidation of cytosolic aspartate aminotransferase. JL Southwell, **NW Seidler**. Presented at the 45th Annual AOA Research Conference, San Diego, California, October

- 20-24, 2001. Journal of the American Osteopathic Association (2001) 101:550, abstr. B18.
47. Methylglyoxal-induced changes in protein conformation. C Kowalewski, **NW Seidler**. Presented at the Tenth Annual UHS Research Symposium, Kansas City, Missouri, January 18, 2002.
48. L-Carnosine: an anti-ageing nutrient. **NW Seidler**. Presented at the UHS Grand Rounds seminar series, Kansas City, Missouri, April 17, 2002.
49. Kowalewski C, **Seidler NW**. Effects of methylglyoxal on the conformation of aspartate aminotransferase. Presented at the 46th Annual AOA Research Conference, Las Vegas, Nevada, October 7-11, 2002. Journal of the American Osteopathic Association (2002) 102:502, abstr. B01.
50. Yeargans GS, **Seidler NW**. Carnosine promotes thermal instability of glycated proteins. Presented at the 46th Annual AOA Research Conference, Las Vegas, Nevada, October 7-11, 2002. Journal of the American Osteopathic Association (2002) 102:505, abstr. B13.
51. L Hobart, **NW Seidler**. Carnosine: properties of a neuroprotective agent. Presented at the Eleventh Annual UHS Research Symposium, Kansas City, Missouri, January 17, 2003.
52. **NW Seidler**. Carnosine: thermal unfolding of glycated protein. Presented at the Eleventh Annual UHS Research Symposium, Kansas City, Missouri, January 17, 2003.
53. Morgan TG, Yeargans GS, **Seidler NW**. De-aggregation of glycated α -crystallin by carnosine. Presented at the 47th Annual AOA Research Conference, New Orleans, Louisiana, October 12-16, 2003. Journal of the American Osteopathic Association (2003) 103:442, abstr. B06.
54. Hobart LJ, **Seidler NW**. Anti-crosslinking activity of anserine. Presented at the 47th Annual AOA Research Conference, New Orleans, Louisiana, October 12-16, 2003. Journal of the American Osteopathic Association (2003) 103:443, abstr. B07.
55. **NW Seidler**, Yeargans GS. The scorpion model: carnosine stabilizes a glycation-derived pyrazinium radical. Presented at the Twelfth Annual UHS Research Symposium, Kansas City, Missouri, January 16, 2004.
56. Morgan TG, Yeargans GS, **NW Seidler**. Carnosine disaggregates glycated α -crystallin. Presented at the Twelfth Annual UHS Research Symposium, Kansas City, Missouri, January 16, 2004.
57. **NW Seidler**, GS Yeargans. Can histidines stabilize a carnosine-derived pyrazinium radical? Presented at the 8th International Symposium on the Maillard Reaction, Charleston, South Carolina, August 28, 2004.
58. AD Mehta, **NW Seidler**. β -Alanine suppresses heat inactivation of lactate dehydrogenase. Presented at the 3rd Annual AMA-MSS Research Poster Session, Atlanta, Georgia, December 4, 2004

59. AD Mehta, **NW Seidler**. β -Alanine reactivates thermally denatured lactate dehydrogenase. Presented at the Thirteenth Annual KCUMB Research Symposium, Kansas City, Missouri, February 25, 2005.
60. **NW Seidler**, GS Yeargans. Proposed mechanism for Alzheimer's disease: endogenous formation of plastic. Presented at the Thirteenth Annual KCUMB Research Symposium, Kansas City, Missouri, February 25, 2005.
61. TA Swearingin, EE Fibuch, **NW Seidler**. Sevoflurane modulates the activity of glceraldehyde 3-phosphate dehydrogenase. Presented at Midwest Anesthesiology Resident's Conference 2005, Madison, Wisconsin, April 1, 2005.
62. BJ Pieters, EE Fibuch, **NW Seidler**. Sevoflurane inhibits oligomerization of human serum albumin. Presented at Midwest Anesthesiology Resident's Conference 2005, Madison, Wisconsin, April 1, 2005.
63. TA Swearingin, EE Fibuch, **NW Seidler**. Sevoflurane modulates the activity of glceraldehyde 3-phosphate dehydrogenase. Presented at KCALSI Research Day, Kansas City, Missouri, April 6, 2005.
62. BJ Pieters, EE Fibuch, **NW Seidler**. Sevoflurane inhibits oligomerization of human serum albumin. Presented at KCALSI Research Day, Kansas City, Missouri, April 6, 2005.

Scholarly Activity

Founder:

Annual KCUMB Research Symposia (formerly called `UHS Research Day`)

KCUMB (formerly UHS-COM) required course titled "Fundamental Principles of Cell and Molecular Biology"

KCUMB (formerly UHS-COM) elective course titled: "Biochemical Toxicology"

Author of KCUMB Policies:

Sabbatical Policy

Policy for Requesting Accommodations for Students with Disabilities

Several policies for the UHS Research Committee

Scientific Chairman:

First Annual KCUMB (formerly UHS) Research Symposium, April 23, 1993

Second Annual KCUMB (formerly UHS) Research Symposium, April 1, 1994

Third Annual KCUMB (formerly UHS) Research Symposium, May 4, 1995

Fourth Annual KCUMB (formerly UHS) Research Symposium, May 10, 1996

Fifth Annual KCUMB (formerly UHS) Research Symposium, May 9, 1997

Sixth Annual KCUMB (formerly UHS) Research Symposium, February 27, 1998

Seventh Annual KCUMB (formerly UHS) Research Symposium, January 15, 1999

44th Annual AOA Research Conference, Oct 26-Nov 1, 2000, Orlando, Florida

Committee Experience

Institution: Kansas City University of Medicine and Biosciences, Kansas City, Missouri

Research Committee:

1992-1999: Member
1999-2001: Chairman

Academic Accessibility Committee:

1992-1997: Member
1997-Present: Chairman

Promotion and Graduation Committee:

1992-1995: Member
2001-Present: Chairman

Institutional Review Board:

1992-1999: Member

Research Peer Review Panel:

1999-Present: Member

Appeals Board:

2001-Present: Member

Faculty Senate Executive Committee:

1991-1996 (President from 1993-1995)

Memberships in professional organizations

Sigma Xi Research Society, since 1981
Biochemical Society (London), since 1983
American Society for Biochemistry and Molecular Biology, since 1991
Society for Free Radical Biology and Medicine, since 1993

Honors and awards

Awarded honorary membership in Sigma Xi Research Society, May 1981

Instructor of the Year 1994, University of Health Sciences, May 1994

Faculty Research Publication Award, University of Health Sciences, April 2000

Faculty Outstanding Oral Presentation Award, 11th Annual UHS Research Symposium, January 2003

Governor's Excellence in Teaching Award, Governor Bob Holden, Springfield, Missouri, December 2004

Faculty Outstanding Oral Presentation Award, 12th Annual UHS Research Symposium, January 2004

Faculty Outstanding Oral Presentation Award, 13th Annual KCUMB Research Symposium, February 2005

Dr. Seidler's student research trainees received awards:

KCUMB Basic Science Research Award: (Honors and Awards Committee, KCUMB)

Shailesh U. Rajguru, Class of 1995
Paul C. Guichard, Class of 1996
William Snider, Class of 1998
Michael Cassetta, Class of 1999
Catherine Fitzgerald, Class of 2000
Timothy A. Swearingin, Class of 2001
Justin Nauth, Class of 2002
Sharagim S. Shokry, Class of 2002
James L. Southwell, Class of 2003
Catherine Kowalewski, Class of 2004

KCUMB Clinical Research Award: (Honors and Awards Committee, KCUMB)

Brad Cucchetti, Class of 2001
Laura Hobart, Class of 2005

Outstanding Oral Presentation at Annual Research Symposium: (Division of Research, KCUMB)

Shailesh U. Rajguru, Class of 1995 (1st Place)
Paul C. Guichard, Class of 1996 (1st Place)
William Snider, Class of 1998 (1st Place)
Justin Nauth, Class of 2002 (1st Place)

Sharagim S. Shokry, Class of 2002 (3rd Place)
Laura J. Hobart, Class of 2005 (2nd Place)
Tim G. Morgan, Class of 2006 (3rd Place)
Ankur Mehta, Class of 2007 (1st Place)

1993 Burnett Osteopathic Student Research Award: (American Osteopathic Association, Bureau of Research)
Joseph E. Burkhardt, Class of 1995

1995 Medical Student Research Competition Finalist: (American College of Physicians, Philadelphia, PA)
Farhad Farokhi, Class of 1996.

2001 AOA Student Research Competition Finalist: (American Osteopathic Association, Bureau of Research)
James L. Southwell, Class of 2003

Extramural research grants

NIH National Research Service Award, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMSD), AR08089-02, September 1989-June 1991

Beginning Grant-In-Aid, American Heart Association, Kansas Affiliate, KS-95-GB-13, July 1995-January 1997