

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME V. Suzanne Klimberg, M.D.		POSITION TITLE Muriel Balsam Kohn Chair in Breast Surgical Oncology	
eRA COMMONS USER NAME Vsklimberg			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Miami, Miami, FL	PhD	Candidate	Biochemistry
Univ. of FL, College of Medicine, Gainesville, FL	MD	1984	Medicine
Univ. of FL, College of Medicine, Gainesville, FL	Residency	1985-1988	General Surgery
American Cancer Society, Univ. of FL, Gainesville, FL	Fellow	1988-89	Clinical Oncology
Univ. of AR for Medical Sciences, Little Rock, AR	Fellow	1990-91	Diseases of the Breast

A. Personal Statement

In this application, we propose to validate the diagnostic fingerprint we have identified in a prospective study and examine the tear proteome of an additional 50 breast cancer patients and benign controls (25 of each, samples already collected) and to identify the sequence of the 3 kDa protein family. We hypothesize that the validated diagnostic fingerprint will discriminate a blinded test set with high sensitivity and specificity. The specific peaks (<4kDa) that discriminate cancer patient tears from controls will be sequenced and will provide new biomarkers for the early detection of breast cancer. I will serve as the co-PI and will supervise the recruitment and consenting of potential subjects, and coordinate all the clinical aspects of the study. As Director of the Division of Breast Surgical Oncology and Director of the Breast Cancer Program for our Cancer Institute, I have an excellent opportunity to recruit subjects and encourage my faculty members to recruit subjects for this trial. We have an exceptional translational breast program at UAMS and the Rockefeller Cancer Institute in Breast Cancer Treatment and Prevention. We have a long history of biomarker identification at this institution including the discovery of CA-125 and now a novel protein marker in tears for breast cancer.

B. Positions and Honors.Positions and Employment

1989-90 Chief Resident, Dept. of Surgery, University of Florida College of Medicine, Gainesville, FL
 1990-91 Breast Fellowship, Department of Surgery, University of Arkansas for Medical Sciences (UAMS)
 1991-2001 Chief of Women's Oncology Service, UAMS, John L. McClellan Memorial VA Medical Center
 1993-present Director of Fellowship in Diseases of the Breast, UAMS and John L. McClellan VA Hospital
 1991-96 Assistant Professor of Surgery, Dept of Surgery and Pathology, Div of Surgical Oncology, UAMS
 1996-99 Associate Professor, Department of Surgery, Department of Pathology, UAMS, Little Rock, AR
 1999-present Professor of Surgery and Pathology, Department of Surgery and Pathology, UAMS
 2000-present Director, Division of Breast Surgical Oncology
 2001-present Director, Breast Cancer Program, Winthrop P. Rockefeller Cancer Institute
 2003-2005 Adjunct Assistant Professor, Department of Applied Science, UALR, Little Rock, AR
 2008 Muriel Balsam Kohn Chair in Breast Surgical Oncology, UAMS

Other Experience and Professional Memberships

1999 President, Association of American Surgeons
 1999 Executive Committee, Society of Surgical Oncologists
 1997-99 Chairperson, Committee on Issues and Governmental Affairs, SSO
 2001 Fellow, American Surgical Association
 2005 – Present Member, Executive Council, Society of Surgical Oncology

2006 – Present	Member, National Accreditation Program for Breast Centers (NAPBC)
2007 – 2013	Director, American Board of Surgery (ABS)
2008 – Present	Treasurer, Society of Surgical Oncology (SSO)
2008 – Present	Board Member, American Society of Breast Surgeons (ASBS)

Honors

1999	Outstanding Faculty, Wall of Fame, University of Florida Medical School
1999-2010	The Best Doctors in America
1991-98,01-03, 08 3/19/99	Red Sash Award, UAMS Student Teaching Award College of Medicine Good Housekeeping – Top Cancer Specialists in the USA
1998	Outstanding Faculty Teaching Award presented by Junior Medical Students
2002	Distinguished Professor, Winthrop P. Rockefeller Cancer Institute
2002-10	Arkansas Best Doctors
2002	Ladies Home Journal – Top Doctor for Women
2003	Hickingbotham Award of Service, Arkansas Affiliate Komen Foundation

C. Selected Peer-Reviewed Publications (in chronological order) (selected from 259 peer-reviewed publications, books, and commentaries)

1. Klimberg VS, Souba WW, Dolson DD et al: Oral glutamine supports crypt cell turnover and accelerates intestinal healing following abdominal radiation. *J of Parenteral and Enteral Nutrition*, 35[Suppl 13(1)]: 1989.
2. Souba WW, Klimberg VS, Hautamaki RD, Plumley DA, Salloum RM, Dolson DD, Kasper ME, Mendenhall WM, Bova FJ, Howard RJ, Bland KI, Copeland EM: Oral glutamine supplementation prevents bacterial translocation following abdominal radiation. *J of Surg Res*, 48:1-5, 1990.
3. Klimberg VS, Nwokedi E, Hutchins LH, Pappas AA, Lang NP, Broadwater JR, Read RC, Westbrook KC: Glutamine facilitates chemotherapy while reducing toxicity. *JPEN*, 16(6):1606, 1992.
4. Klimberg VS, Kornbluth J, Cao Y, Dang A, Blossom S, Schaeffer R: Glutamine suppresses PGE2 synthesis and breast cancer growth. *J of Surg Res*, 63(1): 293-297, 1996.
5. Cao Y, Wang J, Henry-Tillman RS, Klimberg VS. Effect of 7,12 Dimethylbenz[a] anthracene (DMBA) on Gut Glutathione Metabolism. *Journal of Surg Research*, 100:135-140, 2001.
6. Kaufmann YC, Luo S, Johnson AT, Babb K, Klimberg VS. Timing of oral glutamine on DMBA-induced Tumorigenesis. *Journal of Surgical Research*, 111(1):158-165 2003.
7. Johnson AT, Kaufmann YC, Luo S, Todorova V, Klimberg VS. Effect of Glutamine on Glutathione, IGF-1 and TGF- β_1 . *Journal of Surgical Research*, 111(2):222-228, 2003.
8. Johnson, AT, Kaufman Y, Lui S, Klimberg VS. Gut Glutathione Metabolism and Changes with 7,12-Dimethylbenz(a)anthracene (DMBA) and Glutamine. *Journal of the Surgical Research*, 115(2):242-6, 2003.
9. Todorova V, Kaufmann Y, Luo S, Babb K, Harms S, Klimberg VS. Oral glutamine supplementation inhibits PI-2K/AKT signaling pathway in experimental breast cancer. *Journal of Surgical Research*, Nov-Dec;27(6):404-10, 2003
10. Todorova V, Kaufmann Y, Luo S, Babb K, Klimberg VS. Effect of dietary glutamine on tumor glutathione levels and apoptosis-related proteins in DMBA-induced breast cancer of rats. *Breast Cancer Research and Treatment*, Dec;88(3):247-56, 2004.
11. Kaufmann Y, Klimberg VS. Glutamine Affects Glutathione Recycling Enzymes in a DMBA-Induced Breast Cancer Mode. *Nutrition and Cancer*, July-August, 60(4):518-25, 2008.
12. Todorova VK, Kaufmann Y, Hennings LJ, Klimberg VS. Glutamine regulation of doxorubicin accumulation in hearts versus tumors in experimental rats. *Cancer Chem Pharmacol*, 2009 [Epub ahead of print November 2009]
13. Todorova V, Kaufmann Y, Hennings L, Klimberg VS. Protective effects of glutamine against acute doxorubicin cardiotoxicity in tumor-bearing rats. *J Nutrition*. Jan;140(1):44-8, 2009. [Epub 2009 Nov 4].
14. Todorova V, Vanderpool D, Blossom S, Nwokedi E, Hennings L, Mrak R, Klimberg VS. Oral glutamine protects against cyclophosphamide-induced cardiotoxicity in experimental rats through increase of cardiac glutathione. *Nutrition*, 25 (7): 812-817, 2009.