
BIOGRAPHICAL SKETCH

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NAME Lisa K. Jacobs	POSITION TITLE Associate Professor of Surgery The Johns Hopkins University		
eRA COMMONS USER NAME (credential, e.g., agency login) ljacob14			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of Missouri, Columbia, MO	B.S.	1982-1986	Physical Therapy
University of Missouri, SOM, Columbia, MO	M.D.	1988-1992	Medicine
George Washington University, Washington, DC		1992-1998	Surgical Residency
University of Illinois-Chicago, Chicago, Ill		1998-2000	Fellowship

A. Personal Statement

My clinical expertise is in Breast Surgery and Surgical Oncology, and I am the Director of Clinical Breast Cancer Research with faculty appointments in the Departments of Surgery and Oncology. In Research Component 4 (RC4), I will collaborate with Dr. Khouri to perform the clinical study in Aim 3. This study will test the feasibility of using second harmonic generation (SHG) endomicroscopy of Collagen I (Col1) fibers as novel imaging biomarker to predict lymph node involvement. I will evaluate the predictive ability of Col1 fiber volume and distance to predict lymph node involvement by comparing these parameters obtained early in the management of breast cancer patients, namely during breast biopsy, with the sentinel lymph node procedures performed on the same patients by myself.

B. Positions and Honors

Professional Experience

1986-88	Physical Therapist and Clinical Instructor, St. Francis Medical Center, Cape Girardeau, Missouri
2000-04	Assistant Professor of Surgery, Department of Surgery, Division of Surgical Oncology, University of Missouri HealthCare, Columbia, MO
2001-04	Columbia Regional Hospital, Active staff
2001-04	Medical Director, Cancer Screening Services, University of Missouri, Ellis Fischel Cancer Center
2002-04	Interim Chief, Division of Surgical Oncology, Department of Surgery University of Missouri HealthCare.
2004-present	Assistant Professor of Surgery, Department of Surgery Handelsman Division, Johns Hopkins University, Baltimore, MD
2004-present	Director of Clinical Breast Cancer Research. Department of Surgery, Johns Hopkins University, Baltimore, MD

Advisory Committees, Review Groups

2002-09	Department of Defense Breast Cancer Research Program/Analytical Sciences, Inc., Peer Review Member.
2009-10	Ad hoc reviewer for NIH Cancer Center Support Grant Program.

Other Experience and Professional Memberships

2002-present	Fellow of The American College of Surgeons, member #03032204
2001-present	ACOSOG (American College of Surgeons Oncology Group)-member #4182
2004-present	American Society of Clinical Oncology
2004-present	Association of Academic Surgeons
2004-present	Society of Surgical Oncology
2009-present	Editorial Board Breast Section for the Annals of Surgical Oncology

C. Selected Peer-reviewed Publications (selected from 26 peer-reviewed publications)

Most relevant to the current application

1. You YN, Jacobs L, Martinez ED, Budinger SC, Wittlief EJ, Myles SK, Ota DM. Improved Surgeon Performance In Clinical Trials - An Analysis Of Quality Assurance Audits From The American College Of Surgeons Oncology Group. J Am Coll Surg, 2006; 203(3): 269-276.
2. You YN, Jacobs L, Martinez E, Ota DM. The audit process and how to ensure a successful audit. Cancer Treat Res. 2007; 132: 179-97.
3. Jain A, Haisfield-Wolfe ME, Lange J, Ahuja N, Mezban S, Khouri N, Tsangaris TN, Zhang Z, Balch C, Jacobs LK. The role of ultrasound guided fine needle aspiration of axillary nodes in the staging of breast cancer. Ann Surg Oncol. 2008 Feb;15(2):462-71. PMC Journal - In Process.
4. Lum YW, Chang D, Haisfield-Wolfe ME, Gabrielson E, Jacobs L, Lange J, Balch C, Tsangaris TN, Ahuja N. A 30-year review of primary breast sarcomas evaluated at a single institution. Archives of Surgery, In Press.
5. Rosson GD, Singh NK, Ahuja N, Jacobs LK, Chang DC. Multilevel analysis of the impact of community vs patient factors on access to immediate breast reconstruction following mastectomy in Maryland. Arch Surg. 2008 Nov;143(11):1076-81; discussion 1081. PMC Journal - In Process.
6. Jacobs LK, Kelley KA, Rosson GD, Detrani ME, Chang DC. Disparities in urban and rural mastectomy populations : the effects of patient- and county-level factors on likelihood of receipt of mastectomy. Ann Surg Oncol. 2008 Oct;15(10):2644-52. Epub 2008 Jul 29 PMC Journal - In Process.
7. Voltura AM, Tsangaris TN, Rosson GD, Jacobs LK, Flores JI, Singh NK, Argani P, Balch CM. Nipple-sparing mastectomy: critical assessment of 51 procedures and implications for selection criteria. Ann Surg Oncol. 2008 Dec;15(12):3396-401. Epub 2008 Oct 16. PMC Journal - In Process.
8. Jacobs LK, Kelley KA, Chang DC. Disparity in Adjuvant Radiation Therapy in Urban versus Rural Breast Cancer Populations. Submitted to ASO. Abstract selected for ASCO Breast meeting Press Release Program. Not NIH Funded.
9. Zellars RC, Stearns V, Frassica D, Asrari F, Tsangaris T, Myers L, Dipasquale S, Lange JR, Jacobs LK, Emens LA, Armstrong DK, Fetting JH, Garrett-Mayer E, Davidson NE, Wolff AC. Feasibility Trial of Partial Breast Irradiation With Concurrent Dose-Dense Doxorubicin and Cyclophosphamide in Early-Stage Breast Cancer. J Clin Oncol. 2009 Jun 10;27(17):2816-22. Epub 2009 Mar 30. PMC Journal - In Process.
10. Jacobs L, Sukumar S, Stearns V. Intraductal therapy for the prevention of breast cancer. Current Opinion in Investigational Drugs. 2010 Jun;11(6):646-52. PMC Journal - In Process.
11. Ahuja N, Stojadinovic A, Nazarian SM, Segev D, Jacobs L, Wang Y, Eberhardt J, Zeiger MA. Translational Research in Surgical Diseases. Archives of Surgery. 2010 Feb;145(2):187-96. PMC Journal - In Process.

D. Research Support

Ongoing Research Projects

2P50CA103175-06A2 (Bhujwalla)

09/22/11 - 07/31/16

NCI JHU ICMIC Program

This center grant funds an *in vivo* Cellular and Molecular Imaging Center at Johns Hopkins. The program consists of four research components, four developmental projects, one career development award and four resources.

NIH/NCCR (Ford)

09/17/07-05/31/12

UL1-RR02005

The Johns Hopkins Institute for Clinical and Translational Research (ICTR)

The ICTR supports clinical and translational research throughout Johns Hopkins. It includes support for education and training of new translational investigators, facilities in which clinical research can take place and infrastructure support of patient recruitment, bioinformatics, biostatistics and translation core centers.

Completed Projects Within Last Three Years

American College of Surgeons Oncology Group (Jacobs) 12/01/07-11/30/10

Chairman of Audit Committee

The purpose of this project is to provide administrative support and leadership to the audit committee of the American College of Surgeons Oncology Group. It also includes serving as a member of the Executive Committee.

1-2008-01 (Sukumar)

07/01/08-06/30/10

Avon Foundation

Johns Hopkins Avon Breast Center of Excellence

The goal of this grant is a renewed and enhanced partnership for the understanding, treatment, and cure of breast cancer.

ACSOG Z1031 (Jacobs)

07/01/06-06/30/09

American College of Surgeons Oncology Group

A Randomized Phase III Trial Comparing 16 to 18 Weeks of Neoadjuvant Exemestane (25 mg daily) ,Letrozole (2.5 mg). or Anastrozole (1 mg) in Postmenopausal women with Clinical Stage II and III Estrogen Receptor Positive Breast Cancer

The purpose of this project is to evaluate which of three aromatase inhibitors is most effective at reducing the size of estrogen receptor positive breast cancer and identify the best candidate as a treatment alternative to neoadjuvant chemotherapy.