

**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 Nail, Lillian M.	POSITION TITLE Professor and Senior Scientist		
eRA COMMONS USER NAME NAIL12			
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 Rochester, Rochester, NY	BS	1971	Nursing
University of Rochester, Rochester, NY	MS	1975	Med-Surg Nursing
University of Rochester, Rochester, NY	PhD	1985	Nursing

**A. POSITIONS AND HONORS****Positions and Employment**

1971-1972 Staff Nurse, SICU, University of Rochester Medical Center, Rochester, NY  
 1972-1973 Project Nurse, Myocardial Infarction Research Unit, Cardiology Unit, U. of Rochester Medical Center, Rochester, NY  
 1974-1975 Clinician I/II, Chronic Illness Research Project, U. of Rochester School of Nursing, Rochester NY  
 1975-1976 Clinician II, Hypertension Project, U. of Rochester School of Nursing, Rochester, NY  
 1976-1983 Asst. Prof. & and Div. Chair (beginning 1978), Rochester Div., Alfred U., Rochester, NY  
 1983-1985 Res. Assoc., Div. for Nursing Oncology, U. of Rochester Cancer Center, Rochester, NY  
 1985-1990 Asst. Prof. & Clinician II, U. of Rochester SON & Cancer Center, Rochester, NY  
 1990-1999 Assoc. Prof., U. of Utah College of Nursing, Salt Lake City, UT  
 1990-2000 Member, Huntsman Cancer Institute (formerly Utah Regional Cancer Center), SLC, UT  
 1999-2000 Peery Presidential Endowed Chair in Nursing, U. of Utah College of Nursing, SLC, UT  
 2000-present Rawlinson Distinguished Professor & Senior Scientist, School of Nursing and Member, OHSU Cancer Institute, Oregon Health & Science University, Portland, OR

**Honors and Awards (selected)**

1995 Fellow of the American Academy of Nursing  
 1996 Fatigue Initiative Excellence Award from the Oncology Nursing Foundation  
 1999 Oncology Nursing Society Excellence in Research Award to B. Walker, L. Nail & R. Croyle  
 1999 Joan Ashley Fiffick Award  
 2001 WIN Distinguished Research Lectureship  
 2001 Oncology Nursing Society Mara Mogensen Flaherty Memorial Lectureship  
 2002 Oncology Nursing Society Distinguished Researcher Award  
 2002 University of Rochester Distinguished Scholar Award

**B. PEER-REVIEWED PUBLICATIONS (selected)**

- Nail, L.M., Jones, L.S., Guiffre, M., & Johnson J.E. (1984). Sensations after mastectomy. *Am J Nurs*, 84, 1121-1124.
- King, K. B., Nail, L.M., Kreamer, K., Strohl, R. A., & Johnson, J. E. (1985). Patients' descriptions of the experience of receiving radiation therapy. *Oncology Nursing Forum*, 12, 55-61.
- Nail, L.M., King, K. B., & Johnson, J. E. (1986). Coping with radiation treatment for gynecologic cancer: Mood and disruption in usual function. *Journal of Psychosomatic Obstetrics and Gynecology*, 6, 271-281.
- Nail, L.M., & King, K. B. (1987). Fatigue. *Seminars in Oncology Nursing*, 3, 257-262.
- Johnson, J. E., Nail, L.M., Lauver, D., King, K. B., & Keys, H. (1988). Reducing the negative impact of radiation therapy on functional status. *Cancer*, 61, 46-51.
- Johnson, J. E., Lauver, D. R., & Nail, L.M. (1989). Process of coping with radiation therapy. *Journal of Consulting and Clinical Psychology*, 57, 358-364.
- Nail, L.M., Jones, L. S., Greene, D., Schipper, D. L., & Jensen, R. (1991). Use and perceived efficacy of self-care activities in patients receiving chemotherapy. *Oncology Nursing Forum*, 18, 883-887.

8. Nail, L.M. (1993). Coping with intracavitary radiation treatment for gynecologic cancer. *Cancer Practice*, 1, 218-224.
9. Greene, D., Nail, L.M., Fieler, V. K., & Jones, L. S. (1994). A comparison of patient-reported side effects among three chemotherapy regimens for breast cancer. *Cancer Practice*, 2, 57-62.
10. Winningham, M. L., Nail, L.M., Burke, M. B., Brophy, L., Cimprich, B., Jones, L. S., Pickard-Holley, S., Rhodes, V., St. Pierre, B., Beck, S., Glass, E. C., Mock, V., Mooney, K. H., & Piper, B. (1994). Fatigue and the cancer experience: The state of the knowledge. *Oncology Nursing Forum*, 21, 23-36.
11. Fieler, V. K., Nail, L.M., Greene, D., & Jones, L. S. (1995). Patients' use of preventive behaviors in managing side effects related to chemotherapy. *Oncology Nursing Forum*, 22, 713-716.
12. Nail, L.M., & Winningham, M. L. (1995). Fatigue and weakness in cancer patients: The symptom experience. *Seminars in Oncology Nursing*, 11, 272-278.
13. Nail, L.M. (1996). Differentiating fatigue and depression in cancer patients. In C. M. Hogan & R. Wickham (Eds.), *Issues in managing the oncology patient* (pp. 356-42). New York: Phillips Healthcare
14. Rutledge, D. N., Greene, P., Mooney, K., Nail, L.M., & Ropka, M. (1996). Use of research-based practices by oncology staff nurses. *Oncology Nursing Forum*, 23, 1235-1244.
15. Walker, B. L., Nail, L.M., Larsen, L., Magill, J., & Schwartz, A. (1996). Concerns, affects, and cognitive disruption following completion of radiation treatment for localized breast or prostate cancer. *Oncol Nurs Forum*, 23, 1181-1187.
16. Nail, L.M. (1997). Fatigue. In Groenwald, M. Frogge, M. Goodman, & C. Yarbro (Eds.), *Cancer nursing: Principles and practices* (4th ed., pp. 640-654). Boston: Jones & Bartlett.
17. Seegers, C., Walker, B. L., Nail, L.M., Schwartz, A. L., Larsen-Mudgett, L., & Stephen, S. (1998). Self-care and breast cancer recovery. *Cancer Practice*, 6, 339-345.
18. Walker, B. L., Nail, L.M., & Croyle, R. T. (1999). Does emotional expression make a difference in reactions to breast cancer? *Oncology Nursing Forum*, 26, 1025-1032.
19. Schwartz, A. L., Nail, L.M., Chen, S., Meek, P., Barsevick, A. M., King, M. E., & Jones, L. S. (2000). Fatigue patterns observed in patients receiving chemotherapy and radiotherapy. *Cancer Investigation*, 18, 11-19.
20. Meek, P. M., Nail, L.M., Barsevick, A., Schwartz, A. L., Stephen, S., Whitmer, W., et al. (2000). Psychometric testing of fatigue instruments for use with cancer patients. *Nursing Research*, 49, 181-190.
21. Schwartz, A.L., Mori, M., Gao, R, Nail, L.M., King, B., & Madsen, S. (2001). Exercise reduces daily fatigue in women with breast cancer receiving chemotherapy. *Med Sci Sports Exerc*, 33, 718-723.
22. Nail, L.M. (2001). Long-term persistence of symptoms. *Seminars in Oncology Nursing*, 17, 249-254.
23. Nail, L.M. (2002). Fatigue in patients with cancer. *Oncology Nursing Forum*, 29, 537-544.
24. Schwartz, A.L. Meek, P.M., Nail, L.M., Fargo, J., Lundquist, M., Donofrio, M., Grainger, M., Throckmorton, T., Mateo, M. (2002). Measurement of fatigue: Determining minimally important clinical differences. *J. Clinical Epidemiology*, 55, 239-244.
25. Barsevick, A. M., Whitmer, K., Sweeney, C. & Nail, L.M. (2002). A pilot study of an energy conservation intervention for cancer treatment-related fatigue. *Cancer Nursing*, 25(5), 333-341.
26. Barsevick, A. M., Dudley, W., Beck, S., Sweeney, C., Whitmer, K. & Nail, L. (2004). A randomized clinical trial of energy conservation for patients with cancer-related fatigue. *Cancer*, 100, 1302-1310.
27. Goodell, T.T. & Nail, L.M. (2005). Operationalizing symptom distress in adults with cancer. *Oncology Nursing Forum*, 32,2, online exclusive.
28. Bennett, J. A., Winters-Stone, K., Nail, L. (2006). Conceptualizing and measuring physical function in cancer survivorship studies. *Oncology Nursing Forum, Online*. 33, 41-49.
29. Nail LM. (2006). Cognitive changes in cancer survivors. *Am. J. Nurs.* 106 (3 Suppl):48-54.
30. Barsevick AM. Whitmer K. Nail LM. Beck SL. Dudley WN. (2006) Symptom cluster research: conceptual, design, measurement, and analysis issues. *Journal of Pain & Symptom Management*. 31(1):85-95.
31. Bennett, J.A., Winters-Stone, K., Nail, L.M., Scherer, J. (2006). Definitions of "sedentary" in physical activity intervention trials: A summary of the literature. *Journal of Aging and Physical Activity*, 14(4).
32. Gedaly-Duff, V. Lee, K. A., Nail, L. M., Nicholson, H. S., Johnson, K. P. (2006). Pain, sleep disturbance, and fatigue in children with leukemia and their parents: A pilot study. *Oncol Nurs Forum*, 33, 641-646.
33. Eldredge, D. H., Nail, L. M., Maziarz, R. T., Hansen, L. K., Ewing, D., Archbold, P. G. (2006). Explaining family caregiver role strain following autologous blood and marrow transplantation. *Journal of Psychosocial Oncology*, 24, 53-74.

Principal Investigator/Program Director (Last, First, Middle):

34. Wood, L. J., Nail, L. M., Gilster, A., Winters, K. A., Elsea, C. R. (2006). Cancer chemotherapy-related symptoms: Evidence to suggest a role for proinflammatory cytokines. *Oncology Nursing Forum*. Online. 33, 535-42.
35. Wood, L. J., Nail, L. M., Perrin, N. A., Elsea, C. R., Fischer, A., Druker, B. J. (2006). The cancer chemotherapy drug etoposide (VP-16) induces proinflammatory cytokine production and sickness behavior-like symptoms in a mouse model of cancer chemotherapy-related symptoms. *Biol Res Nurs*, 8, 157-169.
36. Bennett, J. A., Lyons, K. S., Winters-Stone, K., Nail, L. M., Scherer, J. (2007). Motivational interviewing to increase physical activity in long-term cancer survivors: A randomized controlled trial. *Nursing Research*, 56, 18-27.
37. Davidson, B., Blum, D., Cella, D., Hamilton, H., Nail, L., Waltzman, R. (2007). Communicating about chemotherapy-induced anemia. *Journal of Supportive Oncology*, 5, 36-41.
38. Friedman, J. H., Brown, R. G., Comella, C., Garber, C. E., Krupp, L. B., Lou, J. S., Marsh, L., Nail, L., Shulman, L., Taylor, C. B. Working Group on Fatigue in Parkinson's D. (2007). Fatigue in Parkinson's disease: A review. *Movement Disorders*, 22, 297-308.
39. Lee-Lin, F., Menon, U., Pett, M., Nail, L., Lee, S., Mooney, K. (2007). Breast cancer beliefs and mammography screening practices among Chinese American immigrants. *JOGNN-Journal of Obstetric, Gynecologic, and Neonatal Nursing*, 36, 212-221.
40. Bennett, J. A., Young, H. M., Nail, L. M., Winters-Stone, K., Hanson, G. (2008). A telephone-only motivational intervention to increase physical activity in rural adults: A randomized controlled trial. *Nursing Research*, 57, 24-32.

**C. RESEARCH SUPPORT**

**Ongoing Research Support**

Type: 1KL 2RR024141 (PI Orwoll)

Agency: NIH NCRR

Period: 09/30/06-06/30/11

Title: Oregon Clinical and Translational Science Institute

The purpose of this award is the expand clinical/translational science at OHSU by creating and organizational infrastructure and resources for clinical/translational research development. The project includes a partnership with Kaiser Permanente's Center for Health Research and builds on our existing strengths in community and institutional efforts to support research coordination and development.

Role: Program Member, Community Engagement

Type: 1R01 CA107374 (PI: Nail)

Agency: NCI, NIH

Period: 6/1/04-4/30/08

Title: Identifying Symptom Clusters in People with Cancer

The purpose of this project is to begin changing the research paradigm to a multiple symptom approach by identifying symptom clusters among people during cancer treatment, determining if specific demographic and clinic variables predict symptom cluster membership, and examining the relationship of symptom cluster membership to mood and ability to function in day-to-day life at different points during or following cancer treatment.

Role: Principal Investigator

Type: 5 R01 NR008570 (PI: Gedaly-Duff)

Period: 7/22/05 – 5/31/10

Agency: NINR, NIH

Title: Chemotherapy, Pain, Sleep, Fatigue in Children and Parents

This longitudinal, comparison study will describe in detail the patterns of pain, sleep, fatigue and well-being of children with acute lymphoblastic leukemia and their parents across the course of chemotherapy.

Role: Co-Investigator

Type: 1 R01 NR009784 (PI: Hickman)

Period: 9/20/05 – 6/30/08

Agency: NINR, NIH

Title: Converting Treatment Wishes into Orders at End of Life

Principal Investigator/Program Director (Last, First, Middle):

In order to learn whether the POLST (Physician Orders for Life-Sustaining Treatment) Program offers advantages over traditional advance care planning approaches, a multi-state study of the POLST Program will be conducted. Nursing facilities in Oregon, West Virginia, and Wisconsin will participate in this research.

Role: Co-Investigator

Type: 1R03CA113135 (PI: Bennett)

Period: 9/24/04 – 8/31/06

Agency: NCI, NIH

Title: The goal of this randomized controlled trial is to increase physical activity in rural adults using recruitment in rural health clinics combined with a motivational telephone intervention from a single location.

Role: Co-Investigator

Type: Research Grant (PI: Winters)

Period: 1/1/06 – 12/31/08

Agency: Lance Armstrong Foundation

Title: POWIR Exercise During Treatment for Prostate Cancer: A Randomized Trial

The goal of this randomized controlled trial is to test the effect of an exercise program on bone, muscle, and fat mass and on physical function in men undergoing treatment for prostate cancer.

Role: Co-Investigator

Type: 1R21 CA115374 (PI: Eldredge)

Period: 9/14/05 – 8/31/07

Agency: NCI, NIH

Title: Customizing Family's Symptom Management Skills Post HSCT

The purpose of this project is to develop, feasibility test, and pilot test a new intervention designed to prepare Family Care Givers with skills for assuming post transplant care of the hemotopoetic stem cell transplant (HSCT) recipient.

Role: Co-Investigator

Type: Research Grant (PI: Wood)

Period: 7/1/05 – 6/30/09

Agency: American Cancer Society

Title: The Role of Cytokine Deregulation in Cancer Treatment Related Fatigue

Our long-range goal of this program of research is to develop targeted therapies to effectively treat and manage cancer related symptoms, including fatigue. To this end, we have developed an innovative murine model to experimentally evaluate the associations among cancer and its treatment.

Type: Research Grant (PI: Winters)

Period: 1/1/06 – 12/31/08

Agency: American Cancer Society

Title: Optimizing Body Composition & Health after Breast Cancer: An Exercise Study

The goal of this randomized controlled trial is to prevent loss of bone density using a weighted-vest exercise intervention in premenopausal breast cancer survivors.

### **Completed Research Support**

Type: Oncology Nursing Foundation (PI: Nail)

Agency: Oncology Nursing Foundation

Period: 11/1/04 – 10/31/07

Title: Connecting Symptoms with Function

The purpose of this pilot study is to describe the trajectory of changes in self-report and performance tests of physical function following neurotoxic chemotherapy and examine relationships among symptom intensity and physical function.

Role: Principal Investigator

Type: 1K24 CA98442 (PI: Nail)

Period: 09/01/00-08/31/06

Agency: NCI, NIH

Title: Clinical Research in Supportive Care for Cancer

The mid-career patient-oriented research award supports research activities and research mentorship for investigators studying supportive care in cancer.

Role: Principal Investigator

Type: P20 NR07807-01 (PI: Nail)

Period: 09/01/01-08/31/05

Agency: NINR, NIH

Title: Symptom Management in Life-Threatening Illness

This exploratory center grant supports five one-year pilot projects on symptom management in life-threatening illness. Two of these projects have a sole focus on cancer patients and two others include cancer patients along with others receiving end-of-life care.

Role: Principal Investigator

Type: KO7 CA82121 (PI: Kinney at U of Utah)

Period: 09/01/99-08/31/04

Agency: NIH

Title: Preventive Oncology Award-Cosponsor for Dr. Anita Kinney's KO7 preventive oncology award.

The primary aims of this project are to enhance the candidate's clinical and research training to include the study of the effects of targeted psychosocial factors on colon cancer-related outcomes; acquire in-depth training in psychosocial methods, statistical analysis, bioethics, and health policy at the intersection of epidemiology and the behavioral and biological sciences; and gain experience teaching about cancer prevention and issues related to genetic testing of cancer.

Type: OHSU Subcontract with Fox Chase Cancer Center

Period: 02/15/99-01/31/03

R01 NR04573 (PI: Barsevick, Co-Investigator: Nail)

Agency: NINR, NIH

Title: Energy Conservation and Cancer Treatment-Related Fatigue (CRF)

The primary aim of this project is to test a telephone-based energy conservation/activity management (ECAM) intervention with regard to its effects on perceived level of fatigue and selected domains of quality of life (level of functioning and negative mood).

Role: Co-Investigator

Type: 5P30 CA69533-04 (PI: Bagby, PI for pilot study: Nail)

Period: 06/01/00-5/31/05

Agency: NCI, NIH

Pilot dates 11/00-5/02

Title: Core Grant to OHSU Cancer Institute/pilot: Relationship Between Hemoglobin Level and Fatigue in Patients Receiving Myelosuppressive Cancer Chemotherapy

Purpose: This short-term pilot project funding provides support for data collection for a study of physiologic correlates of fatigue in patients receiving chemotherapy.

Role: Pilot Study Principal Investigator