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Curriculum Vitae

NAME: CATHERINE M. BENDER, PhD, RN, FAAN

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Education and Training

Undergraduate

1971 - 1975	University of Akron College of Nursing Akron, OH	BSN 1975	Nursing
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Graduate

1977 – 1979	University of Pittsburgh School of Nursing Pittsburgh, PA	MN 1979	Masters in Nursing Oncology Clinical Nursing Specialty
1986 – 1994	University of Pittsburgh School of Nursing Pittsburgh, PA	PhD 1994	Nursing

Appointments and Positions

Academic

2018 - Present	UPMC Hillman Cancer Center	Co-Leader Biobehavioral Cancer Control Program
2016 - Present	University of Pittsburgh School of Nursing University of Pittsburgh Clinical and Translational Science Institute	Nancy Glunt Hoffman Endowed Chair in Oncology Nursing
2013 - 2016	University of Pittsburgh	Director, PhD Program

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2012 - Present	School of Nursing Pittsburgh, PA University of Pittsburgh School of Nursing Pittsburgh, PA	Professor Tenured
2011 - Present	University of Pittsburgh School of Nursing Pittsburgh, PA	Professor Tenured Oncology Nursing
2006 - 2011	University of Pittsburgh School of Nursing Pittsburgh, PA	Associate Professor Tenured Oncology Nursing
1998 - 2006	University of Pittsburgh School of Nursing Pittsburgh, PA	Assistant Professor Research Track Oncology Nursing
1995 - 1998	University of Pittsburgh School of Nursing/ University of Pittsburgh Cancer Institute	Assistant Professor Research Track Oncology Nursing Joint Appointment
1986 - 1995	University of Pittsburgh School of Nursing	Assistant Professor Responsible for the Graduate Program in Oncology Nursing
1984 - 1985	University of Pennsylvania School of Nursing Philadelphia, PA	Instructor
1983 - 1984	Frances Payne Bolton School of Nursing Case Western Reserve University Cleveland, OH	Adjunct Faculty for Graduate Oncology Nursing Program
Non-Academic		
1983 - 1984	Cleveland Metropolitan General Highland View Hospital Cleveland, OH	Assistant Director of Nursing for Oncology
1982 - 1983	Cleveland Metropolitan General	Clinical Nursing Specialist,

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	Highland View Hospital	Oncology
1979 - 1982	St. Vincent Charity Hospital Cleveland, OH	Clinical Nursing Specialist, Oncology
1976 - 1977	Akron General Medical Center Akron, OH	Staff Nurse, Oncology
1976	Akron City Hospital Akron, OH	Assistant Head Nurse Medical Nursing Unit
1975	The Johns Hopkins Hospital Baltimore, MD	Staff Nurse, Oncology

Licensure

1984 - Present	RN-265512-L	Pennsylvania
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Memberships in Professional and Scientific Societies

(Includes leadership activities for organizations)

2016 - Present	<u>American Society of Clinical Oncology</u>
2013 - 2017	<u>International Network for Doctoral Education in Nursing</u>
2015 – 2017	Secretary of the Board
2015	Chair, Biennial Conference Planning Committee
2012 – Present	<u>Eastern Nursing Research Society</u>
2008 – Present	<u>International Cognition and Cancer Task Force</u>
2006 - 2009	<u>North American Menopause Society</u>
2003 - Present	<u>American Nurses Association</u>
2001 - 2006	<u>Eastern Cooperative Oncology Group</u>
1979 – Present	<u>American Cancer Society</u>
1982 – 1984	Leader, I Can Cope Program of the American Cancer Society of Greater Cleveland Chapter
1979 – 1984	<u>Pennsylvania Cancer Control</u>
1979 – Present	<u>Oncology Nursing Society</u>
2010 – 2011	Leader, Planning Committee for the 11th Biennial Cancer Nursing Research Conference in February, 2011.
2010 – 2011	Leader, ONS Foundation Major Core Grant Review Team.

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- 2008 – 2010 **Ex-Officio Coordinator** of the Advanced Nursing Research Special Interest Group
- 2006 – 2008 **Elected Coordinator** of the Advanced Nursing Research Special Interest Group
- 2004 – 2006 Appointed to the Scientific Subgroup of the Research Advisory Panel
- 1999 – 2002 **Appointed Director**, Research Project Team for Biotherapy Research Initiatives for the Oncology Nursing Foundation/ Schering Biotherapy Research Grants. (Set biotherapy research agenda and established grant mechanisms for this funding mechanism)
- 1999 - 2002 **Appointed Director**, Research Project Team for Nausea and Vomiting Research Initiatives. (Set research agenda for research on nausea and vomiting and established grant mechanisms for this funding mechanism)
- 1979 - 1980 **Professional Education Committee of the Northern Ohio Hospice Association**
- 1978 – Present **Sigma Theta Tau International, National Honor Society of Nursing**
- 1999 – 2001 **Chair**, Research Committee

Honors

- 2022 Visiting Professor, Michigan State University College of Nursing
- 2021 Visiting Professor, University of North Carolina School of Nursing and UNC Lineberger Cancer Center.
- 2020-2022 Invited member, National Cancer Institute: Cancer-Related Cognitive Impairment Clinical Trials Planning Committee.
- 2017 Oncology Nursing Society Distinguished Researcher Award, May 2017
- 2012 Named #8 nationally in “75 Nursing professors you would be lucky to have teach your classes” by CAN Thrive
- 2011 Promoted to Professor, University of Pittsburgh School of Nursing
- 2009 Fellow, American Academy of Nursing
- 2007 Nightingale Awards of Pennsylvania, Nursing Research Award
- 2006 Awarded tenure and promoted to Associate Professor, University of Pittsburgh School of Nursing

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- 2006 Ruth Perkins Kuehn Award, University of Pittsburgh School of Nursing \$16,000.
- 2004 Leadership in Nursing Award from Sigma Theta Tau International, Eta Chapter in recognition for outstanding efforts in fostering high professional standards in nursing.
- 2003 Selected to present the State of the Science Lecture at the 7th National Biennial Conference on Cancer Nursing research, sponsored by the Oncology Nursing Society/American Cancer Society, San Diego, CA. \$2,000. February 7, 2003
- 1999 Leadership in Nursing Award from Sigma Theta Tau International, Eta Chapter, in recognition of outstanding efforts in Research.
- 1999 Ruth Perkins Kuehn Award, University of Pittsburgh School of Nursing \$5,000.
- 1993 Selected to present at the Research Short Course sponsored by the Oncology Nursing Society/National Cancer Institute at the 18th Annual Congress of the Oncology Nursing Society.
- 1993 American Cancer Society Scholarship for Doctoral Study, \$8,000 annually.
- 1993 Dean's Distinguished Teaching Award, University of Pittsburgh School of Nursing, \$500.
- 1993 Recipient of a Research Training Fellowship funded by the National Institute of Nursing Research, Individual National Research Service Award. (NOR 6871), \$12,800 annually.
- 1992 Nominated for the Oncology Nursing Society/Schering Excellence in Cancer Nursing Research Award.
- 1978 - Present Sigma Theta Tau International, National Honor Society of Nursing, Eta Chapter

Publications

Refereed Articles (*Denotes data-based; § Denotes senior author)

1. **Bender, C. M.**, (1984). Hepatic artery infusion: A patient teaching module. *Oncology Nursing Forum*, 11, 61-65.
2. Yasko, J. M., & **Bender, C. M.** (1987). Trends in cancer chemotherapy: treatment and care. *Cancer Nursing*, 10, 34-39.
3. ***Bender, C. M.** (1991). Uniting nursing and medical research in an interdisciplinary study of

- appetite stimulation. *Maintaining Nutritional Status in Persons with Cancer*, American Cancer Society, 28-30.
4. Egan, A., Taggart, J., & **Bender, C. M.** (1992). Chemotherapy-related nausea and vomiting using a serotonin antagonist: A research synthesis paper. *Oncology Nursing Forum*, 19, 791-795.
 5. **Bender, C. M.** (1994). Cognitive dysfunction associated with biological response modifier therapy. *Oncology Nursing Forum*, 21, 515-523.
 6. Cain, J., & **Bender, C. M.** (1995). Ifosfamide-induced neurotoxicity: Associated symptoms and nursing implications. *Oncology Nursing Forum*, 22, 659-668.
 7. Monti, E. J., Kerr, M. E., & **Bender, C. M.** (1995). Monitoring neuromuscular function. *Journal of Neuroscience Nursing*, 27, 252-257.
 8. **Bender, C. M.** (1995). Cognitive dysfunction associated with cancer and cancer therapy. *Medical Surgical Nursing*, 4398-400.
 9. **Bender, C. M.**, Monti, E. J., & Kerr, M. E. (1996). Potential mechanisms of interferon neurotoxicity. *Cancer Practice: A Multidisciplinary Journal of Cancer Care*, 4, 35-39.
 10. ***Bender, C. M.**, Yasko, J. M., Kirkwood, J. M., Ryan, C. M., Zullo, T., & Dunbar-Jacob, J. (2000). Cognitive function and quality of life in patients with melanoma receiving alpha interferon. *Clinical Nursing Research*, 9, 350-361.
 11. Kerr, M. E., **Bender, C. M.**, & Monti, E. J. (1996). An introduction to oxygen free radicals. *Heart and Lung*, 25, 200-210.
 12. **Bender, C. M.**, Paraska, K. K., Sereika, S. M., Ryan, C. M., & Berga, S. (2001). Cognitive function in women with breast cancer: A critical review. *The Journal of Pain and Symptom Management*, 21, 407-424.
 13. **Bender, C. M.**, McDaniel, R. W., Murphy-Ende, K., Pickett, M., Rittenberg, C. N., Rogers, M. P., Schneider, S. M., & Schwartz, R. N. (2002). Chemotherapy-induced nausea and vomiting. *Clinical Journal of Oncology Nursing*, 6, 94-102.
Note: This article was chosen for inclusion in an Oncology Nursing Society Clinical Reprint Series publication because it represents “cutting edge clinical information”.
 14. Kirkwood, J. M., **Bender, C. M.**, Agarwala, S., Tarhini, A., Shipe-Spotloe, J., Smelko, B., Donnelly, S., & Stover, L. (2002). Mechanisms and management of toxicities associated with high-dose interferon alfa-2b therapy. *Journal of Clinical Oncology*, 20, 3703-3718.
 15. *§Paraska, K. K. & **Bender, C. M.** (2003). Cognitive dysfunction following adjuvant chemotherapy for breast cancer: Two case studies. *Oncology Nursing Forum*, 30, 473-478.
 16. *Rosenzweig, M. Q., **Bender, C. M.**, & Brufsky, A. A. (2005). The nurse as principal investigator in a pharmaceutically sponsored drug trial: Considerations and challenges. *Oncology Nursing Forum*, 32, 293-299.
 17. *Rosenzweig, M. Q., **Bender, C. M.**, Lucke, J. P., Yasko, J. M., & Brufsky, A. M. (2004). The decision to prematurely terminate a trial of R-HuEPO due to thrombotic events. *Journal of Pain and Symptom Management*, 27, 184-189.
 18. ***Bender, C. M.**, Ergun, F. S., Rosenzweig, M. Q., Cohen, S. M., & Sereika, S. M. (2005). Symptom clusters in breast cancer across 3 phases of the disease. *Cancer Nursing*, 28, 219-225.

19. *§Ergun, F. S., Oran, N. T., & **Bender, C. M.** (2005). Quality of life of cancer nurses. *Cancer Nursing, 28*, 193-199.
20. *Sevick, M. A., Piriano, B., Sereika, S., Starrett, T., **Bender, C.**, Bernardi, J., Stark, S., & Burke, L. (2005). A preliminary study of PDA-based dietary self-monitoring in hemodialysis patients. *Journal of Renal Nutrition, 15*(3), 304-311.
21. ***Bender, C. M.**, Sereika, S. M., Berga, S. L., Vogel, V. G., Brufsky, A. M., & Ryan, C. M. (2006). Cognitive impairment associated with adjuvant therapy in breast cancer. *Psycho-Oncology, 15*, 422-430.
22. **Bender, C.M.** (2006). Commentary: Chemotherapy may have small to moderate negative effects on cognitive functioning. *Cancer Treatment Reviews 32*, 316-319.
23. *Grabiak, B. R., **Bender, C.M.**, & Puskar, K. R. (2007). The impact of parental cancer on the adolescent: An analysis of the literature. *Psycho-Oncology, 16*:127-137.
24. *Bradley, S., Sherwood, P., Donovan, H., Hamilton, R., Rosenzweig, M., Hricik, A, Newberry, A, **Bender, C.M.** (2007). I could lose everything: Understanding the cost of a brain tumor. *Journal of Neuro-Oncology, 85*, 329-338.
25. ***Bender, C.M.**, Sereika, S.M., Brufsky, A.M., Ryan, C.M., Vogel, V.G., Rastogi, P., Cohen, S.M., Casillo, F.E., Berga, S.L., (2007). Memory Impairments With Adjuvant Anastrozole Versus Tamoxifen in Women With Early Stage Breast Cancer. *Menopause 14*, 995-998.
26. *§Sherwood, P., Donovan, H., Rosenzweig, M., Hamilton, R., & **Bender, C.** (2008). A house of cards: The impact of treatment costs on women with breast and ovarian cancer. *Cancer Nursing, 31*(6), 470-477
27. *Sherwood, P.R., Given, B.A., Donovan, H., Baum, A., Given, C.W., **Bender, C.M.**, Schulz, R. (2008). Guiding research in family care: A new approach to oncology caregiving. *Psycho-Oncology, 17*, 986-996.
28. ***Bender, C.M.**, Engberg, S.J., Donovan, H.S., Cohen, S.M., Houze, M., Rosenzweig, M.Q., Mallory, G.A., Dunbar-Jacob, J., Sereika, S.M. (2008). Symptom Clusters in Adults with Chronic Health Problems and Cancer as a Comorbidity, *Oncology Nursing Forum, 35*(1).
29. ***Bender, C.M.**, Pacella, M.L., Sereika, S.M., Brufsky, A.M., Vogel, V.G., Rastogi, P., Casillo, F.E., Richey, S.M., Ryan C.M. (2008). What do perceived cognitive problems reflect? *The Journal of Supportive Oncology, 6*, 238-242.
30. Garand, L., Matthews, J. T., Courtney, K.L., Davies, M., Lingler, J.H., Schlenk, E.A., Yang, K. **Bender, C.M.**, Burke, L. (2010). Development and Use of a Tool to Guide Junior Faculty in Their Progression Toward Promotion and Tenure. *Journal of Professional Nursing, 26*, 207-213.
31. *§Bernardo, L.M., Abt, K.L., Ren, D., **Bender, C.M.** (2010). Self-Reported Exercise During Breast Cancer Treatment: Results of a National Survey, *Cancer Nursing, 33*(4), 304-309.
32. * Stille, C.S., **Bender, C.M.**, Dunbar-Jacob, D. Sereika, S., Ryan, C.M. (2010). The impact of cognitive function on medication management: Three studies. *Health Psychology, 29*(1), 50-55.
33. *§Terhorst, L., Blair-Belansky, H., Moore, P.J., **Bender, C.M.** (2011). Evaluation of the Psychometric Properties of the BCPT Symptom Checklist with a Sample of Breast Cancer Patients Before and After Adjuvant Therapy. *Psycho-Oncology, 20*(9), 961-

968.

34. * Hricik, A., Donovan, H., Bradley, S.E., Given, B.A., **Bender, C.M.**, Newberry, A., Hamilton, R., Given, C.W., Sherwood, P. (2011). Changes in caregiver perceptions over time in response to providing care for a loved one with a primary malignant brain tumor. *Oncology Nursing Forum*, 38, 149-155.
35. *Crago, E. A., Thampatty, B.P., Sherwood, P. R., Kuo. C. J., **Bender, C.**, Balzer, J., Horowitz, M. Poloyac, S.M. (2011). Cerebrospinal fluid 20-HETE is associated with delayed cerebral ischemia and poor outcomes after aneurysmal subarachnoid hemorrhage. *Stroke*, 42, 1872-1877.
36. * Thampatty, B.P., Sherwood, P.R., Gallek, M.J., Crago, R.A., Ren, D., Hricik, A.J., Kuo, A.J., Klamerus, M.M., Alexander, S.A., **Bender, C.M.**, Hoffman, L.A., Horowitz, M.B., Kassam, A.B., Poloyac, S.M. (2011). Role of endothelin-1 in human aneurysmal subarachnoid hemorrhage: Associations with vasospasm and delayed cerebral ischemia. *Neurocritical care*, 15,19-27.
37. *§Wickersham, K., Happ, M.B., **Bender, C.M.** (2012). “Keeping the Boogie Man Away”: Medication Self-Management among Women Receiving Anastrozole Therapy. *Nursing Research and Practice*, 2012, 1 - 9.
38. ***Bender, C.M.**, Sereika, S.M., Ryan, C.M., Brufsky, A.M., Puhalla, S., Berga S.A. (2013). Does Lifetime Exposure to Hormones Predict Pretreatment Cognitive Function in Women Prior to Adjuvant Therapy for Breast Cancer? *Menopause*, 20(9), 922 – 930. PMC3745534
39. *§Wickersham, K.E., Sereika, S.M., **Bender, C.M.** (2013). Pretreatment Predictors of Short-term Nonadherence to Oral Hormonal Therapy for Women with Breast Cancer. *Nursing Research*, 62(4), 243-251.
40. Petras, D.M., Dudjak, L.A., **Bender, C.M.** (2013). Piloting patient rounding as a quality improvement initiative. *Nursing Management*, 44(7), 19-22.
41. *§Bell, M., Terhorst, L., **Bender, C.M.** (2013). Psychometric Analysis of the Patient Assessment of Own Functioning Inventory in Women with Breast Cancer. *Journal of Nursing Measurement* 21(2), 320-334.
42. *Newberry, A., Sherwood, P.R., Donovan, H.A.S., **Bender, C.M.**, Schulz, R. (2013). Exploring spirituality in family caregivers of patients with primary malignant brain tumors across the disease trajectory. *Oncology Nursing Forum*. 2013 May 1;40(3):E119-25. PMID: 23615145. PMCID: PMC3880559.
43. **Bender, C.M.**, Thelen (Nugent), B.D. (2013). Cancer and Cognitive Changes: The Complexity of the Problem. *Seminars in Oncology Nursing*, 29(4), 232–237.
44. *Donovan, H.S., Ward, S.E., Sereika, S., Knapp, J., Sherwood, P., **Bender, C.M.**, Edwards, R.P., Fields, M., Ingel, R. (2014). Web-Based Symptom Management for Women with Recurrent Ovarian Cancer: A Pilot Randomized Controlled Trial of the WRITE Symptoms Intervention. *Journal of Pain & Symptom Management*, 47(2), 218-230. Doi:10.1016/j.jpainsymman.2013.04.005. PMID: 24018206.
45. *Wesmiller, S.W., **Bender, C.M.**, Sereika, S.M., Ahrendt, G., Bonaventura, M, Bobbjerg, D.H., Conley, Y.P. (2014). Association between Serotonin Transport Polymorphisms and Post Discharge Nausea and Vomiting in Women following Breast Cancer Surgery. *Oncology Nursing Forum*, 41(2), 195-202.

46. Wickersham, K. E., Happ, M. B., **Bender, C. M.**, Engberg, S. J., Tarhini, A. and Erlen, J. A. (2014). Surviving with lung cancer: Medication-taking and oral targeted therapy. *Geriatric Nursing, 35*(2 Suppl.), S49-56.
47. Nugent BD, Weimer J, Choi CJ, Bradley CJ, **Bender CM**, Ryan CM, Gardner P, and Sherwood PR. (2014) Work productivity and neuropsychological function in persons with skull base tumors. *Journal of Neurooncology Practice* 1(3): 106-113. doi: 10.1093/nop/npu015.
48. ***Bender, C.M.**, Gentry, A.L., Brufsky, A.M., Casillo, F.E., Cohen, S.M., Donovan, H.S., Dunbar-Jacob, J., Jankowitz, R.C., Rosenzweig, M.Q., Sherwood, P.R., Sereika, S.M., (2014). The influence of the interaction between patient and illness/treatment factors on adherence to adjuvant endocrine therapy in breast cancer. *Oncology Nursing Forum, 41*(3), 274-285, PMC4090095.
49. * Koleck, T.A., **Bender, C.M.**, Sereika, S.S., Ahrendt, G., Jankowitz, R.C., McGuire, K.P., Ryan, C.M., Conley, Y.P. (2014). Apolipoprotein E Genotype and Cognitive Function in Postmenopausal Women With Early-Stage Breast Cancer, *Oncology Nursing Forum, 41*(6), E313-25. doi:10.1188/14.ONF. PMC4406250
50. **Bender, C.M.**, Merriman, J.D. (2014). Cancer- and treatment-related cognitive changes: What can we do now? What lies ahead? (Invited Commentary) *Oncology, 28*(9), 1-4. PMC4261918.
51. *Yousef KM, Balzer J, **Bender CM**, Hoffman LA, Poloyac SM, Ye F, Sherwood, PR (2015). Cerebral Perfusion Pressure and Delayed Cerebral Ischemia After Aneurysmal Subarachnoid Hemorrhage. *American Journal of Critical Care Nursing, 24*(24); E65-E71.
52. *Yousef KM, Balzer J, **Bender CM**, Hoffman LA, Poloyac SM, Ye F, Sherwood, PR (2015). Temporal profiles of cerebral perfusion pressure after subarachnoid hemorrhage. *Journal of Neuroscience Nursing, 47*(4), E2-E9.
53. Knobf, M.T, Cooley, M.E., Duffy, S., Doorenbos, A. Eaton, L., Given, B. Mayer, D.K., McCorkle, R., Miaskowski, C. Mitchell, S., Sherwood, P., **Bender, C.**, Cataldo, J. Hershey, D., Katapodi, M., Menon, U., Schumacher, K., Sun, V., Von Ah, D., LoBiondo-Wood, G., Mallory, G. (2015). The 2014 – 2018 Oncology Nursing Society Research Agenda. *Oncology Nursing Forum, 42*(5), 450-465.
54. *Crago, E.A., Sherwood, P.R., **Bender, C.**, Balzer, J., Ren, D., Polyac, S.M. (2015). Plasma estrogen levels are associated with severity of injury and outcomes after aneurysmal subarachnoid hemorrhage. *Biological Research in Nursing, 17*(5), 558-566.
55. ***Bender, C**, Merriman, J, Gentry, A., Ahrendt, G, Berga, S, Brufsky, A, Casillo, F, Dailey, M, Erickson, K, Kratofil, F, McAuliffe, P, Rosenzweig, M., Ryan, C, Sereika, S. (2015). Patterns of Change in Cognitive Function with Anastrozole Therapy. *Cancer. , 121*(15), 2627-2636. NIHMSID 678809. doi: 10.1002/cncr.29393
56. * Sherwood, P., Price, T., Weimer, J., Ren, D., Donovan, H., Given, C.W., Given, B., Schulz, R., Prince, J., **Bender, C.**, Boele, F. & Marsland, A. (2016). Oncology family caregivers are at risk for systemic inflammation. *Journal of Neuro-Oncology, 128*(1), 109-118.
57. *Jiang, Y., Sereika, S.M., **Bender, C.M.**, Brufsky, A.M., Rosenzweig, M.Q. (2016). Beliefs in chemotherapy and knowledge of cancer and treatment among African American women with newly diagnosed breast cancer. *Oncology Nursing Forum, 43*(2), 180-

- 189.
58. * Koleck, TA, **Bender, CM**, Sereika, S, Brufsky, A, Lembersky, B, McAuliffe, P, Puhalla, S, Rastogi, P, & Conley, YP (2016). Polymorphisms in DNA repair and oxidative stress genes associated with pre-treatment cognitive function in breast cancer survivors: an exploratory study. *SpringerPlus*, 5, 422. doi:10.1186/s40064-016-2061-4
 59. *§Nugent, B.D., Sereika, S.M., Rosenzweig, M.Q., McCue, M., Merriman, J.D., **Bender, C.M.** (2016). The association between pre-treatment occupational skill level and mood and symptom burden in early-stage, postmenopausal breast cancer survivors during the first year of anastrozole therapy. *Journal of Supportive Care in Cancer*, published online first, doi:10.1007/s00520-016-3161-y.
 60. *Crago, EA, Price, TJ, **Bender, CM**, Ren, D, Poloyac, SM, Sherwood, PR. (2016). Impaired work productivity after aneurysmal subarachnoid hemorrhage, *Journal of Neuroscience Nursing*, 48(5), 260-268.
 61. *§ Wesmiller, S.W., Conley, Y., Sereika, S., Bovbjerg, D., Ahrendt, G., Bonaventura, M., Waters, J., **Bender, C.M.** (2017). A Prospective Study of Nausea and Vomiting Following Breast Cancer Surgery. *Journal of PeriAnesthesia Nursing*, 32(3), 169-176.
 62. *§Merriman, J. D., Sereika, S. M., Brufsky, A. M., McAuliffe, P. F., McGuire, K. P., Myers, J. S., . . . Bender, C. M. (2017). Trajectories of self-reported cognitive function in postmenopausal women during adjuvant systemic therapy for breast cancer. *Psychooncology*, 26(1), 44-52. doi:10.1002/pon.4009
 63. *§ Myers, JS, Koleck, TA, Sereika, SM, Conley, YP, **Bender, CM.** (2017). Perceived Cognitive Function for Breast Cancer Survivors: Association of Genetic and Behaviorally-Related Variables for Inflammation. *Supportive Care in Cancer*, 8, 2475-2484. DOI 10.1007/s00520-017-3654-3.
 64. *Koleck, TA, **Bender, CM**, Clark, BZ, Ryan, CM, Ghotkar, P, Brufsky, A, McAuliffe, PF, Sereika, SM, Conley, YP. (2017). An exploratory study of host polymorphisms in genes that clinically characterize breast cancer tumors and pretreatment cognitive performance in breast cancer survivors, *Breast Cancer: Targets and Therapy*, 2017(9), 95-110, doi:10.2147/BCTT.S123785.
 65. *Yee, MK, Sereika, SM, **Bender, CM**, Brufsky, AM, Connolly, MC, Rosenzweig, MQ. (2017). Symptom incidence, distress cancer-related distress, and adherence to chemotherapy among African American women with breast cancer. *Cancer*, published online first, DOI: 10.1002/cncr.30575.
 66. *Wesmiller, S. Sereika, S., **Bender, C.**, Ahrendt, G., Bonaventura, M, Bovbjerg, D. & Conley, Y. (2017). Exploring the Multifactorial Nature of Postoperative Nausea and Vomiting in Women Following Surgery for Breast Cancer. *Autonomic Neuroscience: Basic and Clinical*. 202; 102-107.
 67. *Koleck, TA, **Bender, CM**, Sereika, SM, Ryan, CM, Ghotkar, P, Brufsky, AM, Jankowitz, RC, McAuliffe, PF, Clark, BZ, & Conley, YP (2017). Associations between pathologic tumor features and preadjuvant therapy cognitive performance in women diagnosed with breast cancer. *Cancer Medicine*, 6(2), 339-48. doi: 10.1002/cam4.964
 68. *Park, NJ., Chang Y, Bender C, Conley Y, Chlebowski RT, van Londen GJ, Foraker R, Wassertheil-Smoller S, Stefanick ML, Kuller LH. (2017). Cardiovascular disease and mortality after breast cancer in postmenopausal women: Results from the Women's

- Health Initiative. *PLoS ONE [Electronic Resource]*. 12(9):e0184174, 2017.
69. *Nugent, B.D., **Bender, C.M.**, Tersak, J.M., Sereika, S.M., Rosenzweig, M.Q. (2018). Cognitive and occupational function in survivors of adolescent cancer. *Journal of Adolescent and Young Adult Oncology*, 7(1), 79-87.
 70. *Wang, J.S., Conley, Y.P., Sereika, S.M., **Bender, C.M.**, Wesmiller S.W. (2018). Depressive Symptoms and Physical Function in women one year after initial Breast Cancer Treatment. *Journal of Supportive Care in Cancer* 27(2), 513-519.
 71. ***Bender, C.M.**, Merriman, J.D., Sereika, S.M., Gentry, A.L., Casillo, F., Koleck, T.A., Rosenzweig, M.Q., Brufsky, A.M., McAuliffe, P., Zhu, Y., Conley, Y.P. (2018). Trajectories of Cognitive Function and Associated Phenotypic and Genotypic Factors in Breast Cancer, *Oncology Nursing Forum*, 45(3), 308-326.
 72. §Gentry, A.L., Erickson, K.I., Sereika, S.M., Casillo, F.E, Crisafio, M.E., Donohue, P.T., Grove, G.A., Marsland, A.L., Watt, J.C., **Bender, C.M.** (2018). Protocol for Exercise Program in Cancer and Cognition (EPICC): A randomized controlled trial of the effects of aerobic exercise on cognitive function in postmenopausal women with breast cancer receiving aromatase inhibitor therapy, *Contemporary Clinical Trials*, 67,109-115.
 73. *§Myers, J.S., Erickson, K.I., Sereika, S.M., **Bender, C.M.** (2018). Exercise as an Intervention to Mitigate Decreased Cognitive Function From Cancer and Cancer Treatment: An Integrative Review, *Cancer Nursing*, 41(4), 327-343.
 74. *§Myers, J.S., Mitchell, M., Krigel, S., Steinhoff, A., Boyce-White, A., Van Goethem, K., Valla, M., Dai, J., He, J., Liu, W., Sereika, S.M., **Bender, C.M.** (2019). Qigong intervention for breast cancer survivors with complaints of decreased cognitive function. *Supportive Care in Cancer*, 27(4), 1395-1403.
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 76. *§Merriman JD; Sereika SM; Conley YP; Koleck TA; Zhu Y; Phillips ML; Bertocci MA; Brufsky AM; **Bender CM.** (2019). Exploratory Study of Associations Between DNA Repair and Oxidative Stress Gene Polymorphisms and Cognitive Problems Reported by Postmenopausal Women With and Without Breast Cancer, *Biological Research in Nursing*, 21(1), 50-60.
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Selected Published Abstracts

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8. ***Bender, C. M.** Cognitive Dysfunction in Cancer and Cancer Therapy. (2003). *Proceedings of the 7th National Biennial Conference on Cancer Nursing Research, Oncology Nursing Society/American Cancer Society, 107-109.*
9. ***Bender, C.M.**, Sereika, S. M., Ryan, C. M., Casillo, F.E., Vogel, V.G., Berga, S.L., Cohen, S.M., Rastogi, P., & Brufsky, A..M. (2005). Memory impairments with anastrozole versus tamoxifen therapy in women with early stage breast cancer. *Proceedings of the 28th Annual San Antonio International Breast Cancer Symposium, S274.*
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E582-E583.

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25. *§Myers JS, Koleck TA, Sereika SM, Conley YP, **Bender CM.** (2017). Genetic and Behavioral Factors Associated with Perceived Cognitive Function for Breast Cancer Survivors, Poster Presentation, Oncology Nursing Society Annual Congress, May 5, 2017, Denver, CO.
26. **Bender, C.M.**, Merriman, J.D., Koleck, T.A., Sereika, S.M., Zhu, Y., Conley, Y.P. (2017). Variants in DNA Repair genes associated with cognitive function in women in with breast cancer. Poster presentation, Oncology Nursing Society Congress, May, 2017, Denver., CO.
27. *§Zhu, Y., Sereika, S.M., Merriman, J.D., **Bender, C.M.** (2017). *Trajectories of Aromatase Inhibitor Associated Musculoskeletal Symptoms (AIAMS) for Breast Cancer over 18 Months*. Poster presentation, Oncology Nursing Society 42nd Annual Congress, May, 2017, Denver, CO.
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29. *Zhu, Y., **Bender, C.M.**, Koleck, T.A, Conley, Y.P. (2018). Genes Associated with *Musculoskeletal Symptoms during Treatment of Aromatase Inhibitor for Breast Cancer: A Literature Review with Biological Pathway Analysis*. Podium presentation, Oncology Nursing Society 43rd Annual Congress, May 2018, Washington D.C.
30. *§Li, H., Sereika, S.M., **Bender, C.M.** (2018). *Symptom Clusters in Women with Breast Cancer Before Endocrine Therapy*, Poster presented at the Oncology Nursing Society Congress, May 2018, Washington DC.
31. *Blaes, A. **Bender, C.**, Hudson, C., Smith, S., Fung, C., Watson, S., Dent, S., Abu-Khalaf, M., O'Rourke, M., Katta, S., Merrill, J. *Identifying Gaps in the Coverage of Survivorship Care Services*. DOI: 10.1200/JCO.2021.39.15_suppl.6583 *Journal of Clinical Oncology* 39, no. 15_suppl (May 20, 2021) 6583-6583.
32. *Chan, Y.N., Cho, Y., Anderson, R.A., **Bender, C.**, Hirschey, R., & Bryant, A.L. *Cognitive Impairment in Older Adults with Acute Myeloid Leukemia Who were Receiving Chemotherapy: A Preliminary Qualitative Analysis*. e-poster presentation at the Oncology Nursing Society 47th Annual Congress, Anaheim, April 27-May 1, 2022.
33. *You, K.L., **Bender, C.**, Fennimore, L., Rosenzweig, M., Raina, K., Dalby, A., Cummings, M., Hagan Thomas, T. A Scoping Review of Work-Related Studies in Nurses Diagnosed with Cancer. e-poster presentation at the Oncology Nursing Society 47th Annual Congress, Anaheim, United States. April 27-May 1, 2022.

Book Chapters

1. **Bender, C. M.**, et al. (1985). Guidelines for nursing care of cancer patients with altered nutrition and hydration. In McNally, Stair, & Somerville (Eds). *Guidelines for Oncology Nursing Practice*. Orlando: Grune & Stratton, Inc.
2. **Bender, C. M.** (1986). Cancer Chemotherapy. Section VI-5, Chapter 5, *Oncology Nursing Society Core Curriculum*. Philadelphia: W.B. Saunders Company.
3. **Bender, C. M.** (1990). The immunocompromised cancer patient. *Oncology Patient Care*, 1(2).
4. **Bender, C. M.**, et al. (1990). *BRM Therapy: The Immune System and Biological Response Modifier Therapy. Information for Patients and Families*. Published by the Pittsburgh Cancer Institute.
5. **Bender, C. M.** & Dudjak, L. A. (1990). Neurological/Psychological toxicities associated with BRM therapy. In J. M. Yasko (Ed.) *Nursing Management of the Patients Receiving BRM Therapy*. (pp. 53-62). Cetus Co.
6. **Bender, C. M.** (1991). Emotional reactions to cancer and its treatment. *Oncology Patient Care*, 2, (pp. 1-12).
7. **Bender, C. M.** Cancer Chemotherapy. (1992). Chapter V in Clark and McGee (Eds). *The Core Curriculum for Oncology Nursing Practice, 2nd Edition*. (pp.329-340). Philadelphia: the W. B. Saunders Co., Inc.
8. **Bender, C. M.** (1993). Taste Alterations. in JM. Yasko (Ed.) *Nursing Management of Symptoms Associated with Chemotherapy*. Philadelphia: Meniscus Health Care Communications.
9. **Bender, C. M.** (1997). Implications of Antineoplastic Therapy for Nursing. In Itano, J. K. and Taoka, K. N. (Eds). *The Core Curriculum for Oncology Nursing Practice, 3rd*

Edition. (pp.641-656) Philadelphia: the W. B. Saunders Co., Inc.

10. **Bender, C. M.** Taste Changes. (1998). In J. M. Yasko (Ed.), *Nursing Management of Symptoms Associated with Chemotherapy*, (4th ed.). (pp. 55-62) Bala Cynwyd: Meniscus.
 11. **Bender, C. M.**, Kramer, P. A., Miaskowski, C. (2002). New Directions in the Management of Cancer-Related Cognitive Impairment, Fatigue, and Pain. *Ortho Biotech Oncology*, Published by Scientific Connections.
 12. **Bender, C. M.**, & Rosenzweig, M. Q. (2004). Nursing management: Cancer. In S. Lewis, M. Heitkemper, S. Dirksen, P. O'Brien, J. Giddens & L. Bucher (Eds.). *Medical-Surgical Nursing: Assessment and Management of Clinical Problems*, (6th edition). (pp. 290 - 329) New York: Mosby.
- Note:** Was the principal author of this chapter for editions three through six.
13. **Bender, C. M.** (2004). Cognitive impairment. In CG. Varricchio (Ed). *A Cancer Sourcebook for Nurses*, (8th edition) (pp. 415-422). Boston: Jones and Bartlett Publishers.
 14. **Bender, C.M.** (2017). Physical Activity for Cognitive Functioning, Chapter 9 in *Integrating Physical Activity into Cancer Care*, Bernardo, L.M. and Becker, B.J. Editors.
 15. **Bender, C.M.** (2018). Cognitive Dysfunction, Chapter 11 in *Handbook of Cancer Survivorship*, 2nd Edition.

Audiovisual Materials

Bender, C. M. (1986). *Cancer Chemotherapy*. Oncology Nursing Society Video Series.

Research

Grants Funded

Principal Investigator (PI) or Co PI

MPI: C. Bender, M. Rosenzweig, Y. Conley

Funding Agency: The Magee Women's Research Institute and UPMC Hillman Cancer Center
Pilot Project Funding on Breast Cancer Research

Title: Financial distress, symptoms/side effects and adherence to combination CDK4/6 inhibitor + endocrine therapy in women with breast cancer.

Years inclusive: 2022-2023

\$33,816

PI: Y. Conley, Co PIs: C. Bender, K. Erickson

Funding Agency: National Cancer Institute (CA221882)

Title: Epigenomics of Neurocognitive Function in Breast Cancer

Supplement: Understanding Aging Trajectories Among Cancer Survivors

Years Inclusive: 2021-2023

\$149,999

PI: C. Bender, Co PI: K. Erickson

Funding Agency: National Cancer Institute (1R01CA196762)

Title: Influence of Exercise on Neurocognitive Function in Breast Cancer

Years Inclusive: 2016 – 2023 (NCE)

November 2022

Percent Effort: 15%
\$2,495,791

PI: Y. Conley, Co PIs: C. Bender, K. Erickson
Funding Agency: National Cancer Institute (R01 CA 221882)
Title: Epigenomics of Neurocognitive Function in Breast Cancer
Years Inclusive: 2018-2023
Percent Effort 10%
\$2,265,791

PI: C. Bender, Co-PI: D. Bovbjerg
Funding Agency: National Cancer Institute (P30 CA047904)
Title: Biobehavioral Cancer Control Program
UPMC Hillman Cancer Center (R. Ferris, PI)
Years Inclusive: 2018 - present
Percent Effort 5%
\$170,570

PI: M. Wagner, Co-Sponsors: Y. Conley, C. Bender
Funding Agency: National Institute of Nursing Research (K99/R00 NR019080)
Title: Omics of Pain in the Context of Declining Estrogen
Years Inclusive: K99: 2020-2022
Contributed Effort
\$248,838

PI: C. Bender, Co PI: Y Conley
Funding Agency: University of Pittsburgh CTSI
Title: Symptoms and Adherence to Cancer Therapeutics
Years Inclusive: 2019-2020
Contributed Effort
\$50,000

PI: M. Nilsen, Co PI: C. Bender
Funding Agency: UPMC Hillman Cancer Institute Head and Neck Spore Research Development Grant
Title: The Influence of Multimodality Treatment on Cognitive Function in Head and Neck Cancer Patients
Years Inclusive: 2018-2019
Contributed Effort

PI: T. Hagan Thomas, Co-Sponsors: C. Bender, Y. Schenker
Funding Agency: American Cancer Society Career Development Award
Title: Strong Together: Piloting a Serious Game to Improve Self-Advocacy
Years Inclusive: 2018-2022

Contributed Effort

PI: S. Belcher, Sponsor: C. Bender
Funding Agency: NINR (K23NR019296)
Title: Understanding Oral Anticancer Medication Adherence among Patients with Multiple Myeloma
Years Inclusive: 2020-2023
Contributed Effort
\$368, 124

PI: M. McCall, Sponsors: C. Bender, Y. Conley
Funding Agency: NCI (F99CA253771)
Title: A Multi-omics Approach to Examine Symptoms and Medication Adherence in Women with Breast Cancer
Years Inclusive: 2020-2022
Contributed Effort
\$92,540

PI: Y. Zhu, Sponsors: C. Bender, Y. Conley
Funding Agency: NCI (F99CA234782)
Title: Musculoskeletal Pain Among Breast Cancer Survivors: Through Bio-behavioral and Imaging Lenses
Years Inclusive: 2019-2020
Contributed Effort
\$90,548

PI: M. Nilsen, Co PI: C. Bender
Funding Agency: UPMC Hillman Cancer Institute Head and Neck Spore Research Development Grant
Title: The Influence of Multimodality Treatment on Cognitive Function in Head and Neck Cancer Patients
Years Inclusive: 2018-2019

PI: J. Merriman, Primary Mentor (Bender)
Funding Agency: National Institute of Nursing Research, K99NR015473
Title: Brain biomarkers of cognitive and mood changes related to aromatase inhibitor use.
Years Inclusive: 2015 – 2017
\$190,295.

PI: C. Bender
Funding Agency: National Cancer Institute (2R01 CA 107408-01)
Title: Long Term Trajectory of Cognitive Function Related to Anastrozole Use in Women
Years Inclusive: 2011 – 2016
Percent Effort: 25%

Direct Costs: \$1,869,957

Co-Principal Investigators: Y. Conley and C. Bender
Funding Agency: Oncology Nursing Society Foundation
Title: Genomics of cognitive function in breast cancer.
Years Inclusive: 2009 – 2011
Percent Effort: 0%
Direct Costs: \$49,105

Co-Principal Investigators: C. Stilley and C. Bender
Funding Agency: National Institute of Nursing Research, (P01NR010949-01; Dunbar-Jacob, PI)
Title: A routinization intervention to improve adherence to complex medication regimens.
Years Inclusive: 2008 - 2013
Percent Effort: 20%
Direct Costs: \$2,307,254
PI: C. Bender
Funding Agency: Oncology Nursing Society Foundation
Title: Predictors of Adherence to Hormonal Therapy in Breast Cancer
Years Inclusive: 2008 - 2011
Percent Effort: 18%
Direct Costs: \$199,938

PI: C. Bender
Funding Agency: National Cancer Institute (R01 CA 107408-01)
Title: Cognitive Impairment Related to Anastrozole Use in Women.
Years Inclusive: 2005 – 2011
Percent Effort: 40%
Direct Costs: \$1,990,080

PI: C. Bender
Funding Agency: Ruth Perkins Kuehn Award
Title: Long Term Assessment of Cognitive Function in Women with Breast Cancer Receiving Anastrozole Therapy (AIM II)
Years Inclusive: 2006 - 2008
Percent Effort: 0%
Direct Costs: \$16,000

PI: C. Bender
Funding Agency: Oncology Nursing Society/Pennsylvania Tobacco Settlement
Title: Symptom Clusters in Patients with Chronic Disease and Cancer as a Comorbidity
Years Inclusive: 2005 - 2006
Percent Effort: 5%
Direct Costs: \$25,000

November 2022

PI: C. Bender

Funding Agency: The Center for Research and Evaluation University of Pittsburgh School of Nursing.

Title: A pilot study comparing cognitive function between women with breast cancer who receive tamoxifen versus anastrozole therapy

Years Inclusive: 2004 - 2005

Percent Effort: 0%

Direct Costs: \$4,238

PI: C. Bender

Funding Agency: Schering, Inc.

Title: Cumulative Dose of Interferon Received by Patients with Melanoma who are Pretreated with the Antidepressant Mirtazapine.

Years Inclusive: 2002 - 2008

Percent Effort: 0%

Direct Costs: \$50,000

PI: C. Bender

Funding Agency: Organon, Inc.

Title: A Pilot Study of a Double-Blind, Placebo Controlled Trial of Mirtazapine for the Prevention of Depression Associated with High-Dose Interferon Therapy in Patients with Melanoma

Years Inclusive: 2002 - 2008

Percent Effort: 0%

Direct Costs: \$100,000

PI: C. Bender

Funding Agency: Oncology Nursing Society Foundation

Title: Cognitive Function, Mood and Antidepressant with Interferon

Years Inclusive: 2002 - 2004

Percent Effort: 0%

Direct Costs: \$169,236

PI: C. Bender

Funding Agency: Department of Defense

Title: A Pilot Study of the Efficacy of an Intervention to Compensate for Learning, Memory and Attention Deficits Following Chemotherapy for Breast Cancer

Years Inclusive: 2001 - 2004

Percent Effort: 0%

Direct Costs: \$50,000

PI: C. Bender

Funding Agency: American Cancer Society

Title: Cognitive Function and Reproductive Hormones in Breast Cancer

Years Inclusive: 1998 - 2002

November 2022

Percent Effort:

Direct Costs: \$294,418

PI: C. Bender

Funding Agency: Ruth Perkins Kuehn Award

Title: Cognitive Function and Reproductive Hormones in Premenopausal Breast Cancer:
Expansion to a New Implementation Site

Years Inclusive: 1999 - 2000

Percent Effort: 0%

Direct Costs: \$5,000

PI: C. Bender

Funding Agency: Orthobiotech, Inc

Title: Fatigue and Quality of Life in Patients with Hepatocellular Carcinoma

Years Inclusive: 1998 - 1999

Percent Effort: 0%

Direct Costs: \$10,000

PI: C. Bender

Funding Agency: Oncology Nursing Foundation/Oncology Nursing Certification Corporation

Title: Cognitive Function and Estrogen in Breast Cancer Therapy

Years Inclusive: 1997 - 1999

Percent Effort: 0%

Direct Costs: \$10,000

PI: C. Bender

Funding Agency: Central Research Development Fund, University of Pittsburgh

Title: Cognitive Function and Reproductive Hormone Levels in Women with Breast Cancer
Receiving Adjuvant Chemotherapy

Years Inclusive: 1997 - 1999

Percent Effort: 0%

Direct Costs: \$14,000

PI: C. Bender

Funding Agency: Center for Research in Chronic Disorders, University of Pittsburgh School of
Nursing

Title: Cognitive Function, Stress and Quality of Life in Women with Breast Cancer

Years Inclusive: 1996 - 1998

Percent Effort: 0%

Direct Costs: \$5,836

PI: C. Bender

Funding Agency: American Cancer Society Institutional Grant from the University of Pittsburgh
Cancer Institute

Title: The Relationship Between Neuroendocrine Hormone Levels and Cognitive Function in

Patients with Melanoma Receiving Alpha Interferon

Years Inclusive: 1993 - 1995

Percent Effort: 0%

Direct Costs: \$9,789

PI: C. Bender

Funding Agencies: National Institute of Nursing Research (NRO 6871), \$12,800.00/year; American Cancer Society Scholarship, \$8,000.00/year; and Pittsburgh Cancer Institute funding for Behavioral Research, (\$1,000)

Title: Cognitive Function in Patients with Melanoma Receiving Alpha Interferon

Years Inclusive: 1993 - 1994

Co-Investigator

Funding Agency: National Cancer Institute

R37 (CA262025-01) (Hagan-Thomas, T. PI)

Title: Efficacy of a Self-Advocacy Serious Game Intervention for Women with Advanced Cancer.

Years Inclusive: 2021-2026

Percent Effort: 5%

Funding Agency: National Institute of Nursing Research

R01NR016695 (Wesmler, S. PI)

Title: Genomic Underpinnings for Breast Cancer Treatment Induced Nausea and Vomiting

Years Inclusive: 02/01/2018 – 02/01/2021

Percent Effort: 5%

Funding Agency: American Cancer Society (RSGT-09-150-01-CPHPS, M. Rosenzweig, PI)

Title: The **ACTS** Intervention to reduce breast cancer treatment disparity.

Years Inclusive: 2009-2014

Percent Effort: 5%

Direct Costs: \$1,241,000

Funding Agency: National Institute of Nursing Research (R01NRO11044; P. Sherwood, PI)

Title: Patient and health care system outcomes following EEA

Years Inclusive: 2008 - 2013

Percent Effort: 5%

Direct Costs: \$1,839,462

Funding Agency: National Institute of Nursing Research (NR010735; H. Donovan, PI)

Title: Web-based Cancer Symptom Control: Nurse-Guided vs. Self-Directed

Years Inclusive: 2008 - 2013

Percent Effort: 5%

Direct Costs: \$2,901,291

November 2022

Funding Agency: National Cancer Institute (RO1CA118711-01A1 P. Sherwood PI)

Title: Mind-Body Interactions in Neuro-Oncology Family Caregivers

Years Inclusive: 2006 – 2011

Percent Effort: 5%

Direct Costs: \$2,672,547

Funding Agency: Oncology Nursing Society Foundation (M. Crighton, PI)

Title: Neutropenia symptoms: Communication and Self-Monitoring

Years Inclusive: 2007 - 2009

Percent Effort: 5%

Direct Costs: \$45,000

Funding Agency: Oncology Nursing Society Foundation (L. Bernardo, PI)

Title: Exercise knowledge and Practice in Oncology Nurses

Years Inclusive: 2007 - 2009

Percent Effort: 0%

Direct Costs: \$9,536

Other Research

Research Associated with National Clinical Trial

Quality of Life Associated with Adjuvant Ganglioside Vaccination Therapy versus High-Dose Interferon Therapy in Patients with Melanoma. Written by **C. Bender** and A. Baum. Supported by the Eastern Cooperative Oncology Group Melanoma Subcommittee for quality of life evaluation with this clinical trial.

1979 *The Influence of Staff Education on the Infection Rates of an Oncology Unit.* Master's Research Project. Presented to the Annual Oncology Nursing Seminar, University of Pittsburgh. A Teaching Guide was devised as a result of this study.

Other Scholarly Activities

Program Director: Training Grant

Funding Agency: National Institute of Nursing Research (T32 NRO11972)

Title of Grant: Interdisciplinary Training Program for Nurse Scientists in Cancer Survivorship Research

Years Inclusive: 2010 – 2016

Percent Effort: 10%

Direct Costs: \$1,572, 024

Leader: Cancer Survivorship Research HUB

Funding: University of Pittsburgh School of Nursing

Years inclusive: 2014 – present

Grant Reviewer

2015 – present	National Institute of Nursing Research Training Grant Review (Ad hoc) (F31/F32/K)
2015 – 2019	Oncology Nursing Society Foundation Major Core Grants
2014, 2020	National Cancer Institute Program Project (P01) Special Emphasis Panel.
2013, 2019	National Institute of Nursing Research (T32) Special Emphasis Panel.
2012	National Cancer Institute grant review, Small Grants for Behavioral Research for Cancer Control.
2008	National Cancer Institute grant review, Biomarker, Imaging and Quality of Life Studies of the NCI Clinical Trials Working Group.
2008 – 2011	Oncology Nursing Society Foundation Major Core Grants
2007 - 2010	Nursing Science: Adults and Older Adults Study Section, National Institutes of Health (Ad hoc reviewer)
2005	Oncology Nursing Society Grant Review Team for Symptom Management Research Grants
2003	Grant reviewer for Genesis Oncology Trust, a cancer research funding charity in New Zealand
2001	Oncology Nursing Society Grant Review Team for Symptom Management Research Grants.
2000 - 2003	American Cancer Society Institutional Research Grant Review Committee, University of Pittsburgh Cancer Institute.
2000	Oncology Nursing Society Grant Review Team for Schering Biotherapy Research Grants.

Editorial Review Board

1995 - 1999	Oncology Nursing Forum
1990 - 1991	Oncology Patient Care - a quarterly journal for oncology nurses, published by Wyeth Ayerst.

Invited Reviewer

2020	Contemporary Clinical Trials
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2016	European Journal of Cancer Care
2011 to Present	Journal of Pain and Symptom Management
2006 to Present	Journal of Clinical Oncology
2005 - Present	Psycho-Oncology
2000, 2005	Cancer
2002	British Journal of Cancer
2002	Oncology Nursing Society, Standards of Oncology Nursing Education Generalist and Advanced Practice Levels and The Masters Degree with a Specialty in Advanced Practice Oncology Nursing 4 th Edition
1999	Journal of Applied Social Psychology
1999	Cancer Care Ontario, Education Advisory Committee

Doctoral Scholarship Review

1997-2000	Reviewer, Doctoral Scholarship Applications for the Oncology Nursing Foundation.
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Consultation

2002 - Present	Research Consultation Service of the Oncology Nursing Society.
1983	Barberton Citizens Hospital, Barberton, OH. Consulted to advise the Department of Nursing on the development of a program for the orientation of inpatient oncology nurses.

Selected Presentations

International

1. Bender, C.M., (1999, August). *Cognitive Impairment and Reproductive Hormones in Breast Cancer*, Paper presented as part of a Symposium at the International Conference on Research in Women's and Children's Health Issues: A Global Perspective. Maui, Hawaii.
2. Bender, C.M. (1999, September). *Cognitive Function and Reproductive Hormones in Breast Cancer*, Poster presented at the International State of the Science Conference sponsored by the American Academy of Nursing and Sigma Theta Tau International, Washington, D.C.
3. Bender, C.M., Sereika, S.M., Ryan, C.M., Casillo, F.E., Vogel, V., Berga, S.L., Cohen, S.M., Rastogi, P, Brufsky, A.M. (2005, June). *Memory Impairment Associated with tamoxifen use in women with breast cancer*. Poster presented at Vas-Cog: 2nd Congress of the International Society for Vascular Behavioral and Cognitive Disorders. Florence, Italy.
4. Bender, C.M., Sereika, S.M., Ryan, C.M., Casillo, F.E., Vogel, V.G., Berga, S.L., Cohen, S.M., Rastogi, P, Brufsky, A.M. (2005, December). Memory impairments with anastrozole versus tamoxifen therapy in women with early stage breast cancer. A poster presented at the 28th Annual San Antonio International Breast Cancer Symposium. San Antonio, TX.
5. Bender, C.M., Cohen, S.M., Donovan, H.D., Rosenzweig, M.Q., Sherwood, P.R. (2007, September). *Perceived cognitive impairments in women with breast cancer*. Presented as part of a symposium, Barriers to Optimal Well-Being for Women with Cancer, at the 9th World Congress on Psycho-Oncology, London, U.K.
6. Bender, C.M., Berga, S.L., Brufsky, A.M., Cohen, S.M., Dunbar-Jacob, J. Vogel, V., Ryan,

November 2022

- C.M. (2008, October). *Cognitive Impairment Related to Anastrozole Use in Women*. Paper presented at the Biennial Cognitive Workshop of the International Cognition and Cancer Task Force, Amsterdam, Netherlands.
7. Bender, C.M., Sereika, S.M., Houze, M.P., Brufsky, A.M. Berga, S.L. Richey, S.M., Casillo, F.E., Ahrendt, G.M., Bonaventura, M.A., Evans, S., Johnson, R.R., Lembersky, B.C., Malay, M.B., Puhalla, S., Rastogi, P., Ryan, C.M. (2010, March). *Deterioration in Cognitive Function with Anastrozole Therapy in Women with Breast Cancer*. Paper presented at the Biennial Cognitive Workshop of the International Cognition and Cancer Task Force, New York, NY.
 8. Bender, C.M., Sereika, S.M., Ryan, C.M., Brufsky, A.M., Berga, S.L. (2011, December). *Cognitive Function and Reproductive Hormones In Women Receiving Anastrozole*. Podium Discussion Session at the 34th Annual San Antonio International Breast Cancer Symposium. San Antonio, TX.
 9. Bender, C.M. *Doctoral Education in the United States*. (2013, October). Podium presentation at the 2nd Capital International Nursing Conference, Capital Medical University, Beijing, China.
 10. Bender, C.M., Sereika, S.M., Merriman, J.D., Brufsky, A.M., Ryan, C.M. (2014, February). Verbal Memory Related to Anastrozole Use in Postmenopausal Women with Breast Cancer. Paper presented at the Biennial International Cognition in Cancer Task Force Meeting, Seattle, WA.
 11. **Bender, C.M.** (2017). Variants in DNA Repair genes associated with cognitive function in women in with breast cancer, Podium presentation at the US Sino Nursing Conference, June 5, 2017, Pittsburgh, PA.
 12. **Bender, C.M.**, Sereika, S. Erickson, K. (2020, February) Physical activity, cardiorespiratory fitness, cognitive function in postmenopausal women with breast cancer. 7th Biennial International Cognition in Cancer Task Force Conference, Denver, CO.

National

1. Bender, C.M., (1987, May). Development of a Tool for the Documentation of Home Chemotherapy Teaching. *Paper presented at the 12th Annual Congress of the Oncology Nursing Society*, Denver, CO.
2. Bender, C.M., (1989, December). Uniting Nursing and Medical Research in an Interdisciplinary Pilot Study of Appetite Stimulation. *Invited presentation at the First National Conference on Cancer Nursing Research of the American Cancer Society*. Atlanta, GA.
3. Bender, C.M., (1991, May). Cognitive Deficits Associated with Biological Response Modifier. *Paper presented at the 16th Annual Congress of the Oncology Nursing Society*, San Antonio, Texas.
4. Bender, C.M., (1992, May). A Pilot Study of Cognitive Deficits in Patients with Renal Cell Carcinoma Receiving Tumor Necrosis Factor and Interleukin-2. *Paper presented at the 17th Annual Congress of the Oncology Nursing Society*, San Diego CA.

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5. Bender, C.M. (1993, April). The Biology of Cancer. *Paper presented at the American Cancer Society, Kentucky Division Cancer Nursing Course*, Louisville, Kentucky.
6. Bender, C.M., (1993, May). Cognitive Function in Patients with Melanoma Receiving Interferon. *Paper presented at the Research Short Course, sponsored by the Oncology Nursing Society and the National Cancer Institute at the 18th Annual Congress of the Oncology Nursing Society*, Orlando, Florida.
7. Bender, C.M., (1994, May). Cognitive Dysfunction in Patients with Advanced Cancer Receiving High-Dose, Rapid-Bolus Interleukin-2. *Poster presented at the 19th Annual Congress of the Oncology Nursing Society*, Cincinnati, OH.
8. Bender, C.M., (1999, October). Cognitive Function and Reproductive Hormones in Breast Cancer, *Poster presented at the Jiler-American Cancer Society Research Professors Meeting*, Westchester, NY.
9. Bender, C.M., (2001, June). Antidepressant Therapy for Interferon-Induced Neuropsychological Dysfunction. *An invited presenter at the National Meeting of the Eastern Cooperative Oncology Group*. Pittsburgh, PA.
10. Bender, C.M., (2001, May). Impairment in Cognitive Function Associated with Cancer and Cancer Therapy. *An invited presenter at the Annual Oncology Nursing Society National Congress*, San Diego.
11. Bender, C.M., (2002, April). Biotherapy. *Paper presented at the 27th Annual Congress of the Oncology Nursing Society*, Washington, D.C.
12. Bender, C.M., (2003, February). Cognitive Dysfunction in Cancer and Cancer Therapy, *Competitively Selected for the State of the Science Lecture at the 7th National Biennial Conference on Cancer Nursing Research, sponsored by the Oncology Nursing Society/American Cancer Society*, San Diego, CA.
13. Bender, C.M., (2004, April). Advanced Research Session, A Critique of the paper, Decreasing Symptom Limitations: *Effects of a Cognitive Behavioral Intervention, one of the three highest ranking research abstracts presented at the 29th Annual Congress of the Oncology Nursing Society*. An invited presentation, Anaheim, CA.
14. Bender, C.M., (2004, October). Symptom Clusters in Women with Early Stage Breast Cancer Post-Surgery and Pre-Chemotherapy, *Paper presented at the National Congress on the State of the Science in Nursing Research*. Washington, D.C.
15. Bender, C.M., (2004, October). Symposium organizer, Symptom Cluster Identification and Description Across the Breast Cancer Continuum, *Presented at the National Congress on the State of the Science in Nursing Research*. Washington, D.C.
16. Bender, C.M., (2006, May). Cognitive function related to adjuvant therapy for breast cancer, invited presentation for Grand Rounds in the Department of Obstetrics and Gynecology, Emory University School of Medicine.
17. Bender, C.M., (2006, October). Symptom Clusters in Adults with Chronic Disease and Cancer as a Comorbidity. *Paper presented at the National State of the Science Congress in Nursing Research*. Washington, DC.
18. Bender, C.M., (2007, April). Moderated the Advanced Nursing Research Critique Session *at the Oncology Nursing Society 32nd Annual Congress*. Las Vegas, Nevada.

19. Bender, C.M., (2007, February). What do perceived cognitive impairments reflect? *Presented at the 9th National Biennial Conference on Cancer Nursing Research, sponsored by the Oncology Nursing Society*. Hollywood, CA.
20. Bender, C.M., (2008, May). Beyond the science in cognition after cancer, Insights for the evidence based clinical practitioner, A symposium presented at the *at the Oncology Nursing Society 33rd Annual Congress*. Philadelphia, PA.
21. Bender, C.M., (2010, May). Changes in cognitive function associated with cancer and cancer therapy. Presented the Center for Cancer Research Grand Rounds of the National Cancer Institute. Bethesda, MD.
22. Bender, C.M. & Sereika, S.M. (2010, June). Perceived impact of deteriorations in cognitive function on everyday functioning in women with breast cancer. *Poster* presented at the 5th Biennial Cancer Survivorship Research Conference: Recovery and Beyond*. Washington, D.C.
***Note:** Awarded, "Certificate of Merit," in recognition of being among the six poster abstracts with the best reviewer scores.
23. Bender, C.M., Stille, C., Sereika, S.M. (2012, September). *Health Literacy and Chronic Disease Management. Podium presentation*, part of a symposium presented at the Annual Meeting of the Council for the Advancement of Nursing Science, Washington DC.
24. Bender, C.M. (2012, November). Cognitive Impairment & Symptom Clusters in Breast Cancer. Invited presentation at the Oncology Nursing Society Connections Conference. Phoenix, AZ.
25. Bender, C.M., Donovan, H.S., Dunbar-Jacob, J. Gentry, A., Rosenzweig, M.Q., Sherwood, P.R., Sereika, S. (2013, November). Do Illness/Treatment Factors Moderate the Influence of Patient Factors on Adherence to Hormonal Therapy in Women with Breast Cancer? Oncology Nursing Society Connections Conference. Dallas, TX.
26. Bender, C.M., Kitutu, J, Dunbar-Jacob, J. (2014, January). PhD Student and Postdoctoral Scholar Mentoring in an Undergraduate Research Mentorship Program. Poster presented at the Annual Doctoral Education Conference of the American Association of Colleges of Nursing, Naples, FL.
27. Donovan, H.S., Sereika, S.M., Zhu, Y., Campbell, G.B., Cohen, S.M., Given, C.W., Rosenzweig, M.Q., Bender, C.M., Bovbjerg, D.H., Merriman, J. (2015). Overcoming measurement challenges in a pooled analysis of longitudinal data of symptoms and adherence to cancer therapy. Poster presented at the 2015 Pittsburgh Conference on The Science of Medication Adherence, Pittsburgh, PA.
28. Bender, C.M. (2015, January). What can schools of nursing do to support successful PhD student grantsmanship? An invited presentation at the Annual Doctoral Education Conference of the American Association of Colleges of Nursing, Coronado, CA.
29. Schneider, J., Bender, C.M., Madigan, R., Nola, M. (2016, January). Facilitating the Academic Success of International Students. Symposium presentation at the Annual Doctoral Education Conference of the American Association of Colleges of Nursing, Naples, FL.
30. Bender, C.M., Merriman, Gentry, A.L., Ahrendt, G., Brufsky, A.M., J.D., Sereika, S.M.

November 2022

- (2016, January). Predictors of trajectories of cognitive change in women with breast cancer. Poster presented at the ASCO: Cancer Survivorship Symposium: Advancing Care and Research, San Francisco, CA.
31. Bender, C.M. (2020, February). Why should we study caregivers? Session moderator. Cancer and Cancer Caregiving Research Conference. Pittsburgh, PA.
 32. Bender, C.M. (2021, April). Physical activity to attenuate cognitive decline: State of the evidence and underlying mechanisms. Invited presentation: American Association of Cancer Researchers. Offered remotely due to COVID.
 33. Bender, C.M. (2021, March). Outcomes related to cognitive function in cancer: Potential mechanisms and interventions. Invited presentation: University of North Carolina School of Nursing and UNC Lineberger Cancer Center. Offered remotely due to COVID.
 34. Bender, C.M. (2021, March). Cognitive function in cancer: Implications for oncology clinicians, Invited presentation: University of North Carolina School of Nursing and UNC Lineberger Cancer Center. Offered remotely due to COVID.
 35. Bender, C.M. (2021, May). Physical Activity and Cancer-Related Cognitive Impairment: Samples and Mechanisms. Invited presentation: National Cancer Institute Clinical Trials Planning Meeting on Cancer-Related Cognitive Impairment. Offered remotely due to COVID.

Regional

1. Bender, C.M., (1980). Pain, Associated Factors and Therapeutic Nursing Interventions. Presented at: *"Hospice--The Full Circle of Care"*, sponsored by the American Cancer Society of Cleveland. Certified by the Ohio Nurses' Association.
2. Bender, C.M., (1980). Nursing Care of the Adult Diabetic. A presentation at the Diabetic Care Conference, certified by the Greater Cleveland Hospital Association.
3. Bender, C.M., (1981). Nursing Care of the Patient with Lung Cancer. Coordinator and moderator. Certified by the Ohio Nurses' Association.
4. Bender, C.M., (1981). Hypercalcemia in Malignant Disease. Presented to Oncology Nurses of Cleveland, Cleveland, OH.
5. Bender, C.M., (1981, August). The Hospice Concept. Presented to a class, *Death and Dying*, at Ursuline College, Cleveland, OH.
6. Bender, C.M., (1981, October). Nursing Management of Patients in Pain. Coordinator and presenter of conference at St. Vincent Charity Hospital, Cleveland, OH.
7. Bender, C.M., (1982, September). Cancer: Strategies for Coping. Paper presented at Cleveland Metropolitan General/Highland View Hospital, Cleveland, OH.
8. Bender, C.M., (1982, September). Cancer: Strategies for Coping. Paper presented at Cleveland Metropolitan General/Highland View Hospital, Cleveland, OH.
9. Bender, C.M., (1982). Nursing Grand Rounds: A Patient With Cancer of the Esophagus. Paper presented to Cleveland Chapter of the Oncology Nursing Society.
10. Bender, C.M., (1983). Nursing Strategies for Pain Control. Paper presented at Veterans' Administration Hospital, Cleveland, OH.
11. Bender, C.M., (1983). Breast Cancer, Nurse's Role. Paper presented at the Fourth Cancer

Conference for Health Professional Students, Case Western Reserve University, Cleveland, OH.

12. Bender, C.M., (1986, September). Home Chemotherapy. *Nursing East Conference. Pennsylvania Nurses' Association, Hershey, PA.*
13. Bender, C.M., (1988, October). Pain: The Nurses Response. *Paper presented at the Annual Conference of the Greater Cleveland Chapter of the National Association of Orthopaedic Nurses, Tumors, Their Impact on Orthopaedic Nursing.*
14. Bender, C.M., (1993, March). A Pilot Study of Cognitive Function in Patients Receiving Interferon. *Poster resented at the Midwest Nursing Research Society Conference. Cleveland, OH.*
15. Bender, C.M., (2004, March). Cognitive Dysfunction in Cancer and Cancer Therapy, *Paper presented at the Nursing Horizons Conference sponsored by the University of Pittsburgh School of Nursing.*
16. Bender, C.M., Sereika, S.M., Ryan, C.M., Brufsky, A.M., Berga, S.L. (2014). Are changes in reproductive hormone levels related to changes in cognitive function in women with breast cancer? Paper presented at the Eastern Nursing Research Society Conference, Philadelphia, PA.
17. Bender, C.M., Merriman, J.D., Gentry, A.L., Sereika, S.M. (2016). Predictors of trajectories of change in executive function in women with breast cancer, Paper presented at the Eastern Nursing Research Society Conference, Pittsburgh, PA.
18. Bender, C.M., (2018). Invited plenary presentation, Research Experts Panel, Eastern Nursing Research Society Conference, Newark, NJ.
19. Bender, C.M. (2018, June). Invited Keynote: Program of research in Neurocognitive Function in cancer. Roswell Park Cancer Center Annual Research Conference.

Teaching (Last five years)

NUR 3286: Theoretical Foundations for Research
NUR 3066: State of the Science: Cancer Survivorship
NUR 3071: PhD Research Apprenticeship
NUR 3010: PhD Dissertation
NUR 0001: First Year Freshman Seminar
NUR 0053: Introduction to Inclusion, Equity and Diversity in Health Care

Masters Theses

Committee Chair – 20

Connie M. Bonner (Defended 1988) Study entitled, Utilization of Spiritual Resources by Patients Experiencing a Recent Cancer Diagnosis.

Mary A. McLaughlin (Defended 1988) Study entitled, *Evaluation of a Visual Teaching Aid in Instructing Nurses about Central Venous Catheterization and Venous Access Devices.*

November 2022

Ruth A. Sattler (Defended 1988) Study entitled, *The Relationship Between Oncology Nurses' Health-Promoting Behavior and Their Use of Recommended Self-Protective Practices in Various Clinical Settings.*

Mary E. Davidson (Defended 1989) Study entitled, *Quality of Life Perceptions of Women with Advanced Ovarian Cancer.*

Jena V. Morey (Defended 1989) Study entitled, *Taste and Smell Alterations Described by Patients Receiving Alpha and Gamma Interferon Treatment*

Ruth V. Cook (Defended 1989) Study entitled, *Descriptions of Needs of Patients Participating in a Phase I Tumor Necrosis Factor Clinical Trial.*

Geraldine W. Fox, (Defended 1989) Study entitled, *Levels of Anxiety, Depression and Knowledge of Individuals with Cancer Anticipating Participation in Clinical Needs.*

Jennifer, L. Aikin, (Defended 1991). Study entitled, *A Phenomenological Study of the Experience of Pain for Women with Recurrent Breast Cancer.*

Kelly A. Angeletti (Defended 1991) Study entitled, *Sleep Alterations Described by Oncology Patients Receiving Necrosis Factor and Mitomycin C Treatment.*

Jacqueline L. Barnes, (Defended 1991) Study entitled, *A Pilot Study: Measuring the Flu-Like Syndrome Experienced by Patients with Hepatocellular Carcinoma Receiving Alpha-Interferon.*

Jacquelyn A. Spangler, (Defended 1991) Study entitled, *A Comparison of Dry Gauze and Tape Versus Transparent Dressing for Central Venous Catheter Exit Sites in Terms of Cost, Infection Rates, and Nurse and Patient Preference.*

Jean R. Taggart, (Defended 1991) Study entitled, *Self Care Needs of Patients Experiencing Cognitive Deficits and Aphasia Associated with Tumor Necrosis Factor and Interleukin-2 Therapy.*

Joyce M. Pfab-Tokarski, (Defended 1991) Study entitled, *Alterations in Appetite, Taste, Smell and the Self-Care Needs of Patients with Metastatic Renal Cell Carcinoma Receiving Tumor Necrosis Factor and Interleukin-e Therapy.*

James W. Cain, (Defended 1992) Study entitled, *External Factors Influencing the Early Detection of Cancer in a Rural Community Setting.*

November 2022

Linda Whitehead Carter. (Defended, 1992) Study entitled, *A Descriptive Study of Changes Over Time in Cognition and Mood in Persons with Cancer Receiving High-Dose, Rapid Colus Interleukin-2 Therapy.*

Sr. Carole Langhauser, (Defended 1992) Study entitled, *Quality of Life in Women with Advanced Breast Cancer Participating in a Clinical Trial Comparing Navelbine and Alkeran.*

Carolyn R. Ressler, (Defended 1992) Study entitled *Determination of Reliability and Validity of a Mini-Assessment Tool for Screening for Depression in Persons with Cancer.*

Elaine A. Kimmel, (Defended 1993) Study entitled, *Cognitive Dysfunction and Its Relationship to Fatigue in Persons with Refractory Ovarian Cancer Receiving Taxol Alone and Taxol with G-CSF.*

Ellen Wander, (Defended 1993) Study entitled, *Development of an Instrument to Measure and Document Skin Alterations Related to Cancer Therapy*

Gloria E. Gotaskie, (Defended 1994) Study entitled, *The Impact of a Body Image Program on the Body Image and Quality of Life of Women with Cancer.*

Master Theses Committee Member – 26

PhD Dissertations

Committee Chair:

Maura McCall: (Defense July 2022). *A multiomics approach to examine symptoms and medication adherence in women with breast cancer.* Completing postdoctoral training at Case western Reserve University.

Co-Chair: Kai-Lin You: Completed Overview 2022, Return-to-work in nurse cancer survivors: A national cross-sectional survey of self-reported work limitations, cancer-related symptoms, emotional distress, and health-related well-being.

Zhu, Yehui: (Defense: December 2020). *Musculoskeletal Symptoms with Endocrine Therapy for Breast Cancer: Trajectory and Predictors.* Completing postdoctoral training at Harvard University School of Medicine.

Co-Chair: Elizabeth Skrovanek: (Defense 2020). *The Emotional States Associated with Reproductive Decision Making in Women with a BRCA Pathogenic variant.* Assistant Professor, Duquesne University School of Nursing.

Hongjin Li: (Defense: 2019) *The psychological symptom cluster among women with breast cancer receiving endocrine therapy.* Completed postdoctoral training at the University of Illinois

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at Chicago School of Nursing, now Assistant professor at UIC School of Nursing.

Meredith Cummings: Completing coursework.

Myeong-ga Cho: Completing coursework.

Karen Paraska (Defense 2005). Study entitled, *Mammography screening behaviors in relation to the Health Belief Model in a sample of homebound women with multiple sclerosis*. Retired

Margaret Rosenzweig (Defense 2001). Study entitled, *Erythropoietin vs. usual care in the treatment of cancer related anemia in women with metastatic breast cancer: comparison of hemoglobin and health related quality of life*. Distinguished Service Professor of Nursing, Professor of Medicine, University of Pittsburgh.

Linda Goodfellow (Defense 2000). Study entitled, *The effects of therapeutic back massage on psychophysiologic variables and immune function in spouses of cancer patients*. Currently Clinical Associate Professor, Duquesne University School of Nursing.

Committee Member:

Ya-Ning Chan – (University of North Carolina Chapel Hill School of Nursing. Defense 2022) *Cancer-Related Cognitive Impairment in older adults with acute myeloid leukemia receiving chemotherapy: Perspectives from patients and their caregivers*. Research Project Director, UNC.

Halia Melnyk – (New York University School of Nursing. Completed Overview, 2022). *Employment and quality of life in post-menopausal women with breast cancer treated with anastrozole*.

Rachelle Brick – (School of Health and Rehabilitation Sciences. Defense 2021). *Developing a Stakeholder-Driven Cancer Rehabilitation Intervention for Older Adults with Breast Cancer*. Completing postdoctoral training at the National Cancer Institute

Hyejin Kim – (Defense 2019) Study entitled, *Illness perceptions and self-management in late-life chronic disorders*. Assistant Professor, Rush University College of Nursing.

Junyi Li – (School of Pharmacy, Defense 2018) *Local estrogen production in the brain and its regulation under pathological conditions*. Principle Scientist, Clinical Pharmacology, Genentech

Bethany Thelen-Nugent – (Defense 2016) Study entitled, *Cognitive and Occupational Function in Survivors of Adolescent Cancer*. Nurse Scientist, Freelance Clinical Research Consultant and Medical Writer

Theresa Timcheck Koleck – (Defense 2016). Study entitled, *Cognitive Function and*

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Breast Cancer: Genomics and Disease Characteristics. Assistant Professor, University of Pittsburgh School of Nursing.

Khalil Yousef – (Defended June 5, 2013). Study entitled, Evaluating Indices of Delayed Cerebral Ischemia and Poor Outcomes after Subarachnoid Hemorrhage: *The Role of Cerebral Perfusion Pressure in Disease Pathogenesis*. Associate Professor, University of Jordan, Amman, School of Nursing.

Karen Wickersham (Defended September 21, 2012). Study entitled, *A study of medication-taking for patients with non-small cell lung cancer taking oral targeted therapy*. Assistant Professor, University of South Carolina, College of Nursing

Elizabeth Crago – (Defense 2012). Study entitled, *Determining the effect of estradiol on the incidence of delayed cerebral ischemia after aneurysmal subarachnoid hemorrhage*. Associate Professor, University of Pittsburgh School of Nursing.

Joyce Grayter (School of Social Work, Defense, 2005). Study entitled, *Impact of health care provider-caregiver interaction on caregiver burden in elderly female caregivers of oncology patients*. Retired

Nancyann Falvo (Defense 2000). Study entitled, *A grounded theory study of maternal grief*. Retired

Linda Dudjak (Defense 1997). Study entitled, *A study of factors influencing the decision to participate in a cancer control clinical trial*. Formerly Associate Professor, University of Pittsburgh School of Nursing. Retired

University Honors College

Justine Wang, BSN Honors Thesis, (Defended March 29, 2019). Study entitled, *Examining the effect of tumor features, BDNF, and 5-HTT genotypes on depressive symptoms in breast cancer*.

DNP Capstone Project

Committee Member:

Karen Congelio (Defense 2011). Study entitled, *Using Patient Data to Inform Practice: The Development of Malignant Melanoma Educational Tools for Middle Aged Men*. Currently Advanced Practice Nurse in Dermatology.

Denise Petras (Defense 2009). Study entitled, *Patient rounding in the LTAC setting: An opportunity to positively impact patient call light use, patient satisfaction, and patient safety*. Currently employed in Staff Education at the University of Pittsburgh Medical Center.

Other Mentoring Activities

Mentor for K Scholars

- 2020-2023 Primary Mentor for Sarah Belcher, PhD, RN. Assistant Professor, University of Pittsburgh School of Nursing, for her K23, *Understanding oral anticancer medication adherence among patients with multiple myeloma*. (K23 NRO19296).
- 2020-2022 Co-Sponsor(Y. Conley, C. Bender) for Monica Wagner PhD, RN Funding Agency: National Institute of Nursing Research (K99/R00 NR019080)
Title: Omics of Pain in the Context of Declining Estrogen
- 2015 – 2017 Primary Mentor for John Merriman, PhD, RN. For his K99; Brain biomarkers of cognitive and mood changes related to aromatase inhibitor use. (K99NR015473). Dr. Merriman is now an Assistant Professor at the Rory Meyers College of Nursing, New York University.
- 2014 – 2015 Primary K12 mentor for Na Jin Park, PhD, RN, Assistant Professor University of Pittsburgh School of Nursing for her study of cardiovascular risk associated with adjuvant therapy in women with breast cancer.

Primary Mentor for Postdoctoral Fellows

- 2014 – 2016 Mentor for Jamie Myers, PhD, RN, a Postdoctoral Scholar with the T32, Interdisciplinary Training Program for Nurse Scientists in Cancer Survivorship Research, (T32 NRO11972). Now Research Associate Professor, University of Kansas School of Nursing.
- 2013 – 2015 Mentor for John Merriman, PhD, RN, a postdoctoral scholar with the T32, Interdisciplinary Training Program for Nurse Scientists in Cancer Survivorship Research, (T32 NRO11972). Now Assistant Professor, New York University School of Nursing.
- 2011 – 2013 Mentor for Susan Wesmiller, PhD, RN, a Postdoctoral Scholar with the T32, Interdisciplinary Training Program for Nurse Scientists in Cancer Survivorship Research, (T32 NRO11972). Dr. Wesmiller is now an Associate Professor with tenure, University of Pittsburgh School of Nursing.
- 2003 - 2004 Mentor for Fisun Senuzun Ergun, PhD, RN a Postdoctoral Fellow (International Scholar) from Ege University, Izmir, Turkey. Dr. Ergun is now Dean and Professor with tenure at Ege University, School of Nursing.

Mentor for PhD Students

- 2014 – 2017 Co-Sponsor, Bethany Thelen Nugent, Ruth F. Kirschstein National Research Service Award (1F31NR014958-01), *Cognitive Function and Work Productivity in Survivors of Adolescent Cancer*, National Institute of Nursing Research, Period: 05/01/2009-4/30/12.
- 2013 – 2016 Co-Sponsor, Theresa Timcheck Koleck, Ruth F. Kirschstein National

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Research Service Award (F31NR014590), *Cognitive Function and Breast Cancer: Genomics and Disease Characteristics*.

2007 – 2012 Mentor for Karen Wickersham, Primary Mentor for American Cancer Society Doctoral Scholarship and Co-Sponsor Ruth F. Kirschstein National Research Service Award (1F31NR011261-01), *A Study of Medication Taking for NSCLC Patients Receiving Oral Targeted Therapy*, National Institute of Nursing Research, Period: 05/01/2009-4/30/12.

Mentor for Junior Faculty and Clinicians

2019 – present Marci Nilsen, PhD, RN, Assistant Professor, University of Pittsburgh School of Nursing

2012 – 2014 Pamela Ginex, EdD, RN, OCN, Nurse Researcher, Memorial Sloan-Kettering Cancer Center.

2010 – 2012 Amanda Sherrod, MD, a 3rd year resident in Internal Medicine in the area of cognitive function with taxanes.

2010 – 2011 Marcia Boemke, PhD, RN, Assistant Professor, State University of New York, at Buffalo, School of Nursing in the area of peripheral neuropathy related to cancer therapy.

2007 - 2009 Grace Dean, PhD, RN, Assistant Professor, State University of New York, at Buffalo, School of Nursing in the area of sleep disturbances in cancer.

2006 - 2009 Karen Courtney, PhD, RN, an Assistant Professor in the Department of Health and Community Systems, University of Pittsburgh School of Nursing. Dr. Courtney received funding from multiple sources in her first year as a faculty member including from the RAND Corporation.

2006 - 2009 Margaret Crighton, PhD, RN, a post-doctoral fellow and newly appointed Assistant Professor at the University of Pittsburgh School of Nursing, studying neutropenia in patients with lymphoma and leukemia. Dr. Crighton has received funding from the Oncology Nursing Society.

2006 - 2010 Lisa Bernardo, PhD, RN, an Associate Professor at the University of Pittsburgh School of Nursing with a new avenue of research in the area of exercise in women with breast cancer.

2006 - 2009 Linda Penwarden, RN, MN, AOCN, St. Lukes Mountain State Tumor Institute, Boise, Idaho, consulted in the development of her study, “Accuracy of Protime/INR results using peripheral venipuncture as compared to those drawn from implanted ports using the push-pull method.” Funded by the Oncology Nursing Society.

2005 Versea, APRN, Oncology Research Coordinator, The Whittingham Cancer Center at Norwalk Hospital, Norwalk, CT.

2002 - 2011 Catherine Jansen, RN, PhD, graduate of the doctoral program at the University of California San Francisco studying cognitive function related to cancer therapy.

2001 - 2004 Co-Founder and Chair, Health and Community Systems Department Scholarship Group. A group that mentors junior faculty on scholarly activities and facilitates review of grant applications, papers and presentations prior to submission.

Service

University Committees

2022 - Present	Member, Chancellor's Distinguished Research Award Selection Committee
2021 - Present	Provost's Council on Tenure and Promotion
2021 – Present	Member, Women in Medicine and Science Forum Planning Committee
2018 – 2020	Faculty, Faculty Mentor Training Workshops
2016 – 2020	Advisory Board, Clinical and Translational Science Institute CTS Fellowship (TL1) Program.
2013-2015	Member University Council on Graduate Studies
2008-2012	Member, Building Interdisciplinary Research Careers in Women's Health Internal Advisory Committee
2010–2012	Member University Council on Graduate Studies
2008-2012	Faculty Representative, Property and Facilities Committee of the Board of Trustees
2000-2004	Member, University Senate Educational Policy Committee
1998-2001	Member, Scientific Protocol Review Committee for the University of Pittsburgh Cancer Institute (Reviewed and presented clinical research proposals for scientific merit and rigor prior to Institutional Review Board Review)
1990-1995	Member, Nursing Research Committee, University of Pittsburgh Medical Center

School of Nursing

2021 – Present	Member, PhD Program Advisory Committee
2012	Chair , Theoretical Underpinnings Task Force of the PhD Program.
2011 – Present	Member, Appointment, Reappointment, Promotion and Tenure
2010 – 2012	Member, Planning and Budget Committee
2010 – 2011	Member, Learning Outcomes Review Group
2010 – 2011	Faculty Advisor, Project conducted by Katz School of Business MBA students to improve national recruitment to the PhD Program
2010 – 2011	Chair , DNP/PhD Task Force
2010	Chair , Faculty Tenure and Promotion Committee
2009 – 2010	Chair , PhD Program Progression and Graduation Committee
2009 – 2010	Member, Appointment, Reappointment, Promotion & Tenure Committee
2006	Chair , Task Force for Improving Alignment of Research Interests Between Doctoral Students and Faculty

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2006 - 2007 **Chair**, PhD Program Progression and Graduation Committee
2005 - 2006 Member, Evidenced Based Practice Preferences Task Force
2005 - 2006 Member, Progression and Graduation Committee of the PhD Program Council
2004 - 2006 Member, NIH Task Force
2003 - 2004 Member, School of Nursing 65th Anniversary Planning Committee
2003 Member, School of Nursing, NIH Task Force
2001 - 2004 **Co-Founder and Chair**, Health and Community Systems Department Scholarship Group
2001-2004 Member, Department Financial Advisory Group
2000 - 2002 **Chair**, Curriculum Committee of the Doctoral Program Successfully evaluated and revised the doctoral program
1999 - 2001 Member, Ad hoc Reappointment Subcommittee
1999 **Chair**, Ad hoc Committee on Academic Integrity
1998 - 1999 Member, Curriculum Committee of the Doctoral Program
1998 - 2000 Member, Policy Committee
1996 - 2000 Member, PhD Program Council
1993 - 1995 Member, Bylaws Committee
1990 - 1993 Member, Masters Program Curriculum Committee
1990 - 1992 Member, Graduate Program Admissions Committee
1990 - 1991 Member, Health and Safety Committee
1988 - 1989 Member, Graduate Bylaws Committee
1988 - 1989 Member, Recruitment Task Force
1986 - 1989 Graduate Academic Policy and Procedure Committee
1980 - 1984 Preceptor for Graduate Oncology Nursing Students from Kent State University and Frances Payne Bolton School of Nursing.

International and National Committees and Working Groups

2020-2022 **National Cancer Institute**
Member, National Cancer Institute Cancer-Related Cognitive Impairment Clinical Trials Planning Committee

2016-Present **American Society of Clinical Oncology**
Member, 2017 and 2018 Cancer Survivorship Symposium Planning Committees
2017-2020 Member, Cancer Survivorship Committee
2018-2021 Liaison to Cancer Prevention Committee

2014-2016 **Eastern Nursing Research Society**
Member, Awards Committee
Member, 2016 Conference Planning Committee

2013 – 2017	<p><u>International Network for Doctoral Education in Nursing</u> 2015 - 2017 Secretary Chair, 2015 INDEN Conference Planning Committee Member 2017 INDEN Conference Planning Committee</p>
2008 - Present	<p><u>International Cognition and Cancer Task Force</u> Member, Cognitive Assessment Workgroup</p>
2001 - 2005	<p><u>Eastern Cooperative Oncology Group:</u> Member, Melanoma Committee</p>
1979 - Present	<p><u>Oncology Nursing Society:</u></p>
2018-2021	Member, Research Advisory Board
2016	Selected as one of four faculty for the Oncology Nursing Society Foundation Oncology Nurse Scientist Intensive.
2015 – Present	Member, Oncology Nursing Society Foundation Major Core Grant Review Team
2014 – 2015	Member, Advisory Panel for Determining ONS Research Priorities
2010 – 2011	Appointed Leader , ONS Foundation Major Core Grant Review Team.
2010 – 2011	Appointed Leader , Planning Committee for the 11 th Biennial Cancer Nursing Research Conference in February, 2011.
2008 – 2010	Member, ONS Foundation Major Core Grant Review Team.
2008 – 2009	Member, Planning Committee for the 10 th Biennial Cancer Nursing Research Conference in February, 2009.
2008 – 2010	Ex-Officio Coordinator of the Advanced Nursing Research Special Interest Group
2006 - 2008	Coordinator of the Advanced Nursing Research Special Interest Group (Provides a forum for networking among advanced oncology nursing researchers, provides educational colloquia for continuing education of advanced nursing researchers and promotes collaborative, multi-site research)
2006	Reviewer, <i>Cancer Nursing</i> 2006 Research Award
2006 - 2008	Member, Core Data Set Project Team.
2005	Member, Faculty Selection Committee, International Society of Nurses in Cancer Care and the Oncology Nursing Society
2004 - 2006	Appointed to the Scientific Subgroup of the Research Advisory Panel
2004 - 2005	Reviewer, Applications for 2005 Distinguished Researcher Award
2002 - Present	Research Consultation Service (Serve as a mentor for oncology clinicians and junior faculty who are developing a program of research)

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- 1999 - 2002 **Invited Director**, Research Project Team Director for Biotherapy Research Initiatives for the Oncology Nursing Foundation/ Schering Biotherapy Research Grants, Appointed.
(Set biotherapy research agendas and established grant mechanisms for this new research funding mechanism)
- 1999 - 2002 **Invited Director**, Research Project Team for Nausea and Vomiting Research Initiatives for the Oncology Nursing Society, Appointed.
(Set research agendas for research related to nausea and vomiting and established grant mechanisms for this new research funding mechanism)
- 1997 - 2000 Member, Committee for Review of Doctoral Scholarship Applications for the Oncology Nursing Foundation
- 1997 - 2000 Member, Committee for Review of Denied Certification Applications of the Oncology Nursing Society.
- 1995 - Present Member, Advanced Nursing Research Special Interest Group.
- 1995 - 1999 Member, Editorial Review Board, Oncology Nursing Forum, official publication of the Oncology Nursing Society.
- 1993 - 2000 Member, Continuing Education Approval, Core Committee.
(Reviewed appeals of denials of CEU approval)
- 1987 - 2000 Continuing Education Approval Committee.
(Reviewed applications for CEU approval)
- 1979 - 1984 Greater Cleveland Chapter of the Oncology Nursing Society, Cleveland.

American Cancer Society:

- 1998 Member, Selection Panel for American Cancer Society Nurse of Hope
- 1987 - 1997 Member, American Cancer Society, Allegheny County Nursing Education Committee
- 1984 - 1986 Nursing Education Committee, American Cancer Society, Philadelphia
- 1983 - 1984 Professional Nursing Education Committee of the American Cancer Society, Ohio Division
- 1982 - 1984 **Leader**, I Can Cope Program of the American Cancer Society of Greater Cleveland Chapter
- 1979 - 1984 Nursing Education Board of the American Cancer Society, Cuyahoga County Unit, Cleveland, OH

1978 to Present **Sigma Theta Tau:**

- Member, Eta Chapter
- 2005 Abstract Review Committee, Greater Pittsburgh 17th Annual Nursing Research Conference
- 1999 - 2001 **Chair**, Research Committee, Sigma Theta Tau, Eta Chapter.
- 1989 - 1991 Application Review Committee, Sigma Theta Tau, Eta Chapter

1984 - 1986 **Pennsylvania Cancer Control:**

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Member, Rehabilitation Committee

Other

2008 – 2015

Nightingale Awards of Pennsylvania – Member Awards Committee

1996 - 1998

Volunteer, University of Pittsburgh Medical Center, Health Care for the Homeless