

CANHUA XIAO, PhD, RN, FAAN
Acting Associate Professor
Nell Hodgson Woodruff School of Nursing
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EDUCATION

2013	Post-Doctoral	Emory University	Nursing
2011	PhD	University of Pennsylvania	Nursing
2005	MSN	First Military Medical University	Nursing
2000	BSN	Peking Union Medical College	Nursing

LICENSES & CERTIFICATIONS

2012-Present	RN, Georgia, License	#RN221864
2011-2012	RN, California, License	#RN800826

HONORS & AWARDS

2018	Fellow	American Academy of Nursing (FAAN)
2018	Distinguished alumni	University of Pennsylvania School of Nursing
2018	Young Investigator Award	Multinational Association of Supportive Care in Cancer (MASCC) and the International Society of Oral Oncology (ISOO)
2017	Distinguished alumni	Southern Medical University
2017	Protégée Award	Friends of National Institute of Nursing Research (FNINR)
2017	Fellowship	National Cancer Institute (NCI)-funded Transdisciplinary Research on Energetics and Cancer (TREC) Training Workshop
2016	Nominated, Presidential Early Career Award	Scientists and Engineers (PECASE)
2016	Victoria Mock New Investigator Award	Oncology Nursing Society (ONS)
2013	Lawrence S. Bloomberg Faculty of Nursing Emerging Scholars Program	University of Toronto
2012	Scholarship	ONS Foundation/ONS Connections Conference
2012	Sigma Theta Tau Alpha Epsilon Chapter Research Scholarship Award	Emory University
2008	First Place	151 Project in Guangdong Province for Modern Education Technique in Higher Education
2008	Travel Grant Award	University of Basel
2007-2011	PhD Scholarship	University of Pennsylvania School of Nursing
2007	Second Place	11th National Competition of Multimedia Software in Higher Education
2007	Fourth Place	11th National Competition of Multimedia Software in Higher Education
2006	First Place	Competition of Educational Media for Medicine in Guangdong Province

2005	Third Place, Academic Scholarship	Southern Medical University
2005	Principal Teacher	Provincial Excellence Course in Guangdong Province
2005	Second Place, Outstanding Teaching Achievement	Southern Medical University
2005	Second Place, Excellent Teaching	Southern Medical University
2003	Second Place, Outstanding Teaching Achievement	First Military Medical University
2003	First Place, Excellent Teaching	First Military Medical University (renamed Southern Medical University after 2004)

PROFESSIONAL EXPERIENCE

2019-2020	Associate Professor of Nursing and Psychiatry (with tenure)	Yale University School of Nursing
2018	Visiting Associate Professor	Yale University School of Nursing
2015-2018	Assistant Professor	Emory University School of Nursing
2014-2015	Assistant Professor (Research)	Emory University School of Nursing
2011-2013	Postdoctoral Fellow	Emory University School of Nursing
2009-2011	Teaching Assistant	University of Pennsylvania School of Nursing
2007-2011	Research Assistant	University of Pennsylvania School of Nursing
2005-2007	Associate Professor, RN	Southern Medical University School of Nursing
2004-2005	Lecturer	Southern Medical University School of Nursing
2000-2004	Lecturer	First Military Medical University School of Nursing

SCHOLARSHIP: GRANTS & OTHER FUNDING

Research Grants Under Review

Gynecologic Cancer Therapy, the Vaginal Microbiome and Patient Symptom Experience (Bruner)
 NIH NCI R01
 Submitted October 2020 to
 Co-Investigator

Obesity, Weight Loss and Epigenetic Age Among Breast Cancer Survivors (Xiao)
 Submitted August 2020 to Yale Cancer Center
 PI

Impact of Epigenetic Age and Inflammation on the Association Between Lifestyle and outcomes in HPV-
 Unrelated Head and Neck Cancer Survivors (Xiao)

NIH NCI UG3/UH3
Submitted July 2020
PI

The Role of the Gut Microbiome and Metabolome in the Regulation of Inflammation and Neuropsychological Symptoms in Patients with Head and Neck Cancer (Xiao, Fedirko)
NIH NINR R01
Re-submitted March 2020
Contact PI

Evaluation of Mechanisms and Effects of Exercise on Fatigue in Patients with Head and Neck Cancer (Xiao, Gary)
NIH NCI R01
Submitted November 2019
Contact PI

R01 competitive renewal: Gut Microbiome and Cancer-Related Fatigue: Epigenetic Mechanisms (Xiao)
NIH NINR R01
Submitted November 2019
PI

Research Grants Funded by the National Institutes of Health (NIH)

Epigenetic Mechanisms of Inflammation and Fatigue in Head and Neck Cancer Patients (Xiao)
Funded by NIH/NINR (R01NR015783)
PI
Total Costs: \$1,508,229
Funding Period: 4/22/2016 – 9/31/2020

Fatigue in Head and Neck Cancer: Role of pro- and anti-inflammatory signaling (Xiao)
Funded by NIH/NINR (K99/R00NR014587)
PI
Total Costs: \$886,196
Funding Period: 9/27/2013 – 6/30/2019

Research Grants Funded by other agencies

Progressing Towards Precision Medicine in Human Papillomavirus and Non-Human Papillomavirus Head and Neck Cancer Through High-Resolution Metabolomics (Eldridge)
Georgia CTSA KL2
Advisory Committee
Funding Period: 8/1/2019-7/31/2021

Joint, Randomized Phase III Study of Adjuvant Radiation Therapy with Cisplatin, Docetaxel-Cetuximab, or Cisplatin-Atezolizumab in High Risk Head and Neck Squamous Cell Carcinoma (Harari, Baunam, Rosenthal)
National Clinical Trials Cooperative Group (NRG Oncology) Protocols: Funded through NCI (RTOG1216)
Co-Investigator
Funding Period: 2020-Present

An Open-label, Phase III Study of Platinum-Gemcitabine with or without Nivolumab in the First-line Treatment of Recurrent or Metastatic Nasopharyngeal Carcinoma (Ma)

National Clinical Trials Cooperative Group (NRG Oncology) Protocols: Funded through NCI (HN007)
Co-Investigator
Funding Period: 2020-Present

A Randomized Phase II/III Trial of Reduced-Dose Reduced-Field Radiation Therapy Alone or in Combination with Chemotherapy or Immunotherapy for Patients with p16-Positive, Non-Smoking-Associated, Locoregionally Advanced Oropharyngeal Cancer (Yom)
National Clinical Trials Cooperative Group (NRG Oncology) Protocols: Funded through NCI (HN005)
Co-Investigator
Funding Period: 2019-Present

Gut Microbiome and Psychoneurological Symptoms in Head and Neck Cancer Patients (Xiao)
Yale School of Nursing pilot grant
PI
Total Costs: \$5,900
Funding Period: 1/1/2019-12/31/2019

SNP's Association with Fatigue and Physical Activity in Head and Neck Cancer Patients: A Pilot Study for Inflammatory Mechanisms as Associated with HPV (Xiao)
NRG Oncology NCORP and CPC Pilot Grant
PI
Total Costs: \$12,375
Funding Period: 8/1/2017 – 7/31/2019

Limited Stage Small Cell Lung Cancer: A Phase II/III Randomized Study of Chemoradiation Versus Chemoradiation Plus Atezolizumab (Higgins)
National Clinical Trials Cooperative Group (NRG Oncology) Protocols: Funded through NCI (LU005)
Co-Investigator
Funding Period: 2018-Present

Does Progressive Home-Based Aerobic and Resistance Exercise Reduce Fatigue and Inflammation in Patients with Head and Neck Cancer Receiving IMRT: A Pilot Study (Xiao, Gary)
Emory University Research Committee (URC)
PI
Total Costs: \$30,000
Funding Period: 5/1/ 2017 – 4/30/2018

Neurocognitive Impairment in Patients with Head and Neck Cancer Receiving IMRT (Waldrop-Valverde)
Emory University School of Nursing Center for Neurocognitive Studies (P30 00056484)
Pilot PI
Total Costs: \$10,000
Funding Period: 2016-2017

Inflammation-Induced CNS Glutamate Alterations in Patients Undergoing Chemoradiation for Head and Neck Cancer (Miller)
2014 Winship Cancer Prevention & Control Pilot Project
Co-Investigator
Total Costs: \$30,000
Funding Period: 2014-2015

Fatigue and NF-kB Related Inflammatory Mediators in Patients with Head and Neck Cancer: A Pilot Study (Xiao)

Oncology Nursing Society Foundation Research Grant

PI

Total Costs: \$25,000

Funding Period: 1/15/2013-1/15/2015

Fatigue and NF-kB Related Inflammatory Mediators in Patients with Head and Neck Cancer Undergoing Chemoradiotherapy (Xiao)

Sigma Theta Tau Alpha Epsilon Chapter Research Scholarship Award

PI

Total Costs: \$1,000

Funding Period: 2012-2013

The Comparison of Missing Data Handling Techniques on Factor Analysis (Xiao)

University of Pennsylvania School of Nursing PhD Mentored Research Award

Total Costs: \$5,000

Funding Period: 7/1/2010-6/30/2011

Identifying Symptom Clusters in Patients with Head and Neck Cancer Post Radiation Therapy (Xiao)

American Nurse Foundation

PI

Total Costs: \$5,000

Funding Period: 9/1/2010 – 8/31/2011

Building and Applying Subject-based Learning Website: Nursing History (Xiao)

Guangdong Province Government Research Grant

PI

Funding Period: 7/1/2005-6/30/2006

Building and Applying Subject-based Learning Website: Breast Cancer (Xiao)

Guangdong Province Government Research Grant

PI

Funding Period: 7/1/2004-6/30/2005

Teaching Reform Based on Online Resources for Fundamentals of Nursing (Xiao)

Guangdong Province Government Research Grant

PI

Funding Period: 7/1/2003-6/30/2004

SCHOLARSHIP: PUBLICATIONS (data-based denoted with *, senior or first author with +, student or corresponding authors underlined)

Peer-Reviewed Publications – Published

1. *Xiao C, Beitler JJ, Higgins KA, Chico CE, Withycombe JS, Zhu Y, Zhao H, Lin IH, Li F, Jeon S, Irwin M, Bruner DW, Miller AH, Gary R. Pilot Study of Combined Aerobic and Resistance Exercise on Fatigue for Patients with Head and Neck Cancer: Inflammatory and Epigenetic Changes. *Brain, Behavior, and Immunology* 2020 Apr 21;S0889-1591(19)31283-8.doi: 10.1016/j.bbi.2020.04.044. Online ahead of print

2. **Xiao C**, Hurst N, Morsas B. The State of the Science in Patient-Reported Outcomes for Patients with Lung Cancer. Issue on “Lung Cancer: Advances in Diagnosis and Management.” *Semin Respir Crit Care Med*. 2020;00:1–9.
3. ***Xiao C**, Eldridge RC, Beitler JJ, Higgins KA, Chico CE, Felger JC, Wommack EC, Knobf T, Saba NF, Shin DM, Bruner DW, Miller AH. Association among glucocorticoid receptor sensitivity, fatigue, and inflammation in patients with head and neck cancer. *Psychosomatic Medicine* 2020 April 21 - Publish Ahead of Print
4. *Eldridge RC, Pugh SL, Trotti A, Hu K, Spencer SA, Yom S, Rosenthal D, Read N, Desai A, Gore E, Shenouda G, Mishra MV, Bruner D, **Xiao C**. Changing Functional Status within Six Months Post-treatment is Prognostic of Overall Survival in Head and Neck Cancer Patients: an NRG Oncology Study. *Head and Neck Cancer* 2019; 41(11): 3924-3932. PMID: PMC6865821
5. *Beitler JJ, Switchenko JM, Dignam J, McDonald MW, Shin DM, Magliocca KR, El-Deiry MW, Patel MR, Steuer C, **Xiao C**, Rhyner P, Aiken A, Curran WJ, Le Q. Smoking, Age, Nodal Disease, T-Stage, P16 Status and Risk of Distant Metastases in Patients with Squamous Cell Cancer of the Oropharynx. *Cancer*. 2019; 125(5): 704-711. PMID: PMC6463275
6. ***Xiao C**, Dai T, Hanlon A, Guo Y, Bruner DW. Comparison of Missing Data Imputation Techniques in Factor Analysis. *Journal of Nursing Measurement*. 2019; 27(2): 313-334
7. ***Xiao C**, Beitler JJ, Higgins KA, Wommack EC, Saba NF, Shin DM, Bruner DW, Miller AH, Cole S. Differential regulation of NF- κ B and IRF target genes as they relate to fatigue in patients with head and neck cancer. *Brain, Behavior, and Immunology*. 2018 Nov;74:291-295. PMID: PMC6289813
8. ***Xiao C**, Moughan J, Movsas B, Konski AA, Hanks GE, Cox JD, Roach III M, Zeitzer KL, Lawton CA, Peters CA, Rosenthal SA, Hsu CJ, Horwitz EM, Mishra MV, Michalski JM, Parliament MB, D'Souza DP, Pugh SL, Bruner DW. Risk Factors for Late Bowel and Bladder Toxicities in NRG Oncology Prostate Cancer Trials of High Risk Patients: A Meta-analysis of Physician Rated Toxicities. *Advances in Radiation Oncology*. 2018;3(3):405-411. PMID: PMC6128023
9. ***Xiao C**, Beitler J, Higgins K, Glazer T, Huynh LK, Paul S, Felger J, Wommack EC, Saba NF, Shin DM, Bruner DW, Miller A. Associations among HPV, inflammation, and fatigue in head and neck cancer patients. *Cancer* 2018;124(15):3163-3170. PMID: PMC6097898
10. *Ferris MJ, Zhong J, Switchenko JM, Higgins KA, Cassidy RJ 3rd, McDonald MW, Eaton BR, Patel KR, Steuer CE, Baddour HM Jr, Miller AH, Bruner DW, **Xiao C**, Beitler JJ. Brainstem dose is associated with patient-reported acute fatigue in head and neck cancer radiation therapy. *Radiother Oncol*. 2018; 126(1):100-106. PMID: PMC5841457
11. ***Xiao C**, Miller A, Felger J, Mister D, Liu T, Torres M. Depressive symptoms and inflammation are independent risk factors of fatigue in breast cancer survivors. *Psychological Medicine*. 2017; 47(10):1733-1743. PMID: 28193310
12. Wang T, Yin J, Miller A, **Xiao C**. A systematic review of the association between fatigue and genetic polymorphisms. *Brain, Behavior, and Immunology*.2017; 62:230-244. PMID: PMC5947855
13. Miaskowski C, Barsevick A, Berger A, Casagrande R, Grady P, Jacobsen P, Kutner J, Patrick D, Zimmerman L, **Xiao C**, Matocha M, Marden S. Advancing Symptom Science Through Symptom Cluster Research: Expert Panel Proceedings and Recommendations. *Journal of the National Cancer Institute*. 2017; 109(4): djw253. PMID: PMC5939621
14. ***Xiao C**, Zhang Q, Nguyen-Tân PF, List M, Weber RS, Ang KK (Deceased), Rosenthal R, Filion EJ, Kim H, Silverman C, Raben A, Galloway T, Fortin A, Gore E, Winquist E, Jones CU, Robinson W, Raben D, Le QT, Bruner DW. (2017) Quality of life in a prospective phase III randomized trial of concurrent standard radiation vs. accelerated radiation plus cisplatin for locally advanced head and neck carcinoma: NRG Oncology RTOG 0129. *International Journal of Radiation Oncology • Biology • Physics*. 2017 Mar 15;97(4):667-677. PMID: PMC5266672
15. ***Xiao C**, Miller AH, Felger J, Mister D, Liu T, Torres M. (2016) A Prospective Study of Quality of Life in Breast Cancer Patients Undergoing Radiotherapy. *Advances in Radiation Oncology*. 1:10-16. PMID: PMC4950982

16. *Xiao C, Beitler J, Higgins K, Conneely K, Dwivedi B, Felger J, Wommack EC, Shin DM, Saba NF, Ong L, Kowalski J, Burner DW, Miller A. (2016) Fatigue is Associated with Inflammation in Patients with Head and Neck Cancer Before and After Intensity-Modulated Radiation Therapy. *Brain, Behavior, and Immunology*. 52:145-152. PMID: PMC4867228
17. *Bruner DW, Hunt D, Michalski J, Bosch W, Galvin J, Amin M, Xiao C, Bahary J, Patel M, Chafe S, Rodrigues G, Lau H, Duclos M, Baikadi M, Deshmukh S, Sandler H. (2015) Preliminary Patient Reported Outcomes Analysis of 3DCRT versus IMRT on the High Dose Arm of the Radiation Therapy Oncology Group (RTOG) 0126 Prostate Cancer Trial. *Cancer*. 121(14):2422-30. PMID: PMC4490066
18. *Xiao C, Hanlon A, Zhang Q, Movsas B, Ang K, Rosenthal DI, Nguyen-Tan PF, Kim H, Le Q, Burner DW. (2014). Risk Factors for Clinician-Reported Symptom Clusters in Patients with Advanced Head and Neck Cancer in a Phase III Randomized Clinical Trial: RTOG 0129. *Cancer*. 120(6):848-854. PMID: PMC3947661
19. Xiao C, Bruner DW, Jennings BM, Hanlon AL. (2014) Methods for Examining Cancer Symptom Clusters Over Time. *Research in Nursing & Health*. 37(1):65-74. PMID: 24414939
20. *Xiao C, Hanlon A, Zhang Q, Ang K, Rosenthal DI, Nguyen-Tan PF, Kim H, Movsas B, Burner DW. (2013). Symptom clusters in patients with head and neck cancer receiving concurrent chemoradiotherapy. *Oral Oncology*. 49(4):360-366. PMID: PMC3924732
21. Xiao C, Polomano R, Bruner DW. (2013). Comparison between Patient-reported and Clinician-observed Symptoms in Oncology. *Cancer Nursing*. 36(6): E1-E16. PMID: 23047799
22. *Fachko MJ, Xiao C, Bowles KH, Robinson KM, Libonati, JR. (2013). Cardiovascular Effects and Enjoyment of Exer-Gaming in Older Adults. *J Gerontol Nurs*, 39(12): 43-54. PMID: 23855328.
23. *Libonati JR, Sabri A, Xiao C, MacDonnell SM, Renna BF. (2011). Exercise training improves systolic function in hypertensive myocardium. *Journal of Applied Physiology*, 111(6): 1637-1643. PMID: 21921241
24. Xiao C. (2010). The state of science in the study of cancer symptom clusters. *European Journal of Oncology Nursing*, 14(5): 417-434. PMID: 20599421
25. *Wang L, Wang H, Xiao C. (2010). The effect of web-based teaching for Nursing History. *Chinese Journal of Nursing*, 45(8): 729-731.
26. Zeng L, Huang J, Lu A, Xiao C. (2009). Teaching an elective course named Interpersonal Relationship and Art of Intercourse in medical colleges. *Chinese Journal of Medical Education*, 29(1): 22-25.
27. *Wang L, Wang H, Xiao C, Mao J. (2008). Evaluation on effects of developing Nursing History learning website. *Nursing Journal of Chinese People's Liberation Army*, 25(23): 14-16.
28. *Zhou K, Shi L, Luo C, Xiao C. (2008). The effects of teaching in English for Fundamentals of Nursing. *Journal of Nurses Training*, 23(21): 1931-1933.
29. *Yang L, Wang H, Xiao C. (2007). The evaluation of web-based teaching for Breast Cancer. *Journal of Mudanjiang Medical College*, 28(3): 60-62.
30. *Yang L, Wang H, Xiao C. (2007). Effect analysis on using an online teaching model for Breast Cancer. *Chinese Journal of Practical Nursing*, 23(4): 1-3.
31. Wang L, Wang H, Xiao C. (2007). Design and development of a subject-based learning website on Nursing History. *Chinese Nursing Research*, 21(1): 75-76.
32. *Lu A, Xiao C. (2007). Teaching reform based on web-based materials for Fundamentals of Nursing. *Nursing Journal of Chinese People's Liberation Army*, 24(5): 28-29.
33. *Wang H, Yang L, Xiao C. (2006). Teaching reforms based on website of Breast Cancer. *Journal of Nurses Training*, 21(12): 1117-1119.
34. Wang H, Yang L, Xiao C, Bao L. (2006). Design and development of subject-based learning websites of Breast Cancer. *Chinese Nursing Research*, 20(7): 1773-1775.
35. *Xu X, Zhang S, Xiao C, Hu M. (2006). Job stressors of nurses hired in military hospitals and the relationship between job stressors and demographic characteristics. *Chinese Journal of Practical Nursing*, 22(4): 7-9.

36. *Xu X, **Xiao C**, Hu M. (2006). The relationship between job stress and copying style for temporary nurse in military hospitals. *Journal of Nurses Training*, 21(6): 532-533.
37. *Xu X, **Xiao C**, Zhang S, Hu M. (2006). Study on nurses' job stress and copying style in the cadre wards of military hospitals. *Journal of Nursing Administration*, 6(8): 15-16.
38. *Zhou H, Li Y, Zhou C, Xiang F, **Xiao C**. (2005). Status quo of investigations on community rehabilitation and prevention of cerebral apoplexy patients with sequela. *Chinese Nursing Research*, 19(16): 1419-1421.
39. Yang X, Zhai H, Wang H, **Xiao C**, Wang X, Zeng Y. (2005). Research progress in the evaluation of clinical nursing specialists. *Chinese Nursing Research*, 19(1): 7-10.
40. Yang L, Wang H, **Xiao C**. (2005). Teaching design for "Breast Cancer" website in "Surgical Nursing Care". *Chinese Nursing Research*, 19(10): 2047-2049.
41. Yang L, Wang H, **Xiao C**. (2005). Establishing subject-based learning website for Breast Cancer. *Chinese Journal of Nursing*, 40(12): 924-925.
42. ***Xiao C**, Lu A, Luo C. (2005). Online teaching research for Pressure Ulcer. *Chinese Journal of Nursing*, 40(8): 614-616.
43. *Lu A, **Xiao C**, Luo C, Huang Z. (2005). The effect of internet resources on classroom teaching in Fundamentals of Nursing. *Nanfang Journal of Nursing*, 12(8): 78-80.
44. ***Xiao C**, Wang H. (2005). The impact of social support and coping styles on the mood of post-operative breast cancer patients. *Nanfang Journal of Nursing*, 12(5): 80-82.
45. **Xiao C**, Wang H. (2005). The effects of psychological intervention on emotion and immunity for patients with breast cancer (review). *Chinese Mental Health Journal*, 19(10): 691-693.
46. **Xiao C**, Wang H. (2004). Developing and using psychological stress animal models. *Nanfang Journal of Nursing*, 11(7): 72-74.
47. Lu A, **Xiao C**. (2004). Building a teaching resource bank for "Fundamentals of Nursing". *Chinese Journal of Nursing*, 39(3): 208-209.
48. *Zhou K, **Xiao C**, Luo C, Lu A. (2004). A practice and discussion of bilingual teaching on "Nursing Basic". *Nanfang Journal of Nursing*, 11(4): 52-54.
49. *Zhou K, Luo C, **Xiao C**, Shi L. (2004). Attempt to bilingual teaching in Fundamental Nursing. *Journal of Nursing Science*, 19(21): 59-61.
50. **Xiao C**, Huang Z. (2004). The value of teachers in using modern teaching techniques for "Fundamentals of Nursing". *Chinese Nursing Research*, 18(10A): 1773-1774.
51. **Xiao C**, Liu J. (2002). Holistic nursing for breast cancer patients using Orem Theory. *Journal of Nursing Science*, 17(8): 152-153.
52. ***Xiao C**. (2002). The effect of teaching "Fundamentals of Nursing" for medical students. *Journal of First Military Medical University*, 22(12): 172-173.
53. ***Xiao C**, Lu A, Zhou K. (2002). The effect of using video multimedia instruction on skill training of "Fundamental Nursing" in a large classroom. *Journal of Nurses Training*, 17(9): 654-656.
54. **Xiao C**, Liu J. (2002). The urgency of cultivating critical thinking in nursing education in China. *Chinese Journal of Nursing*, 37(4): 304-306.
55. ***Xiao C**, Gao Y. (2002). The comparison between clinical teaching and school teaching on Fundamentals of Nursing for medical students. *Modern Nursing*, 8(11): 862-863.
56. ***Xiao C**, Guo A. (2001). The health education needs for the relatives of patients with PTCA. *Chinese Journal of Nursing*, 36(7): 543-545.
57. **Xiao C**, Lu A. (1999). Discussion on the cultivation of aesthetic feeling in secondary education of nursing. *Chinese Journal of Nursing*, 34(6): 357-359.

Peer-Reviewed Publications – Accepted

1. *Bai J, Bruner DW, Fedirko V, Beitler J, Zhou C, Gu J, Zhao H, Lin I, Chico CE, Higgins K, Shin DM, Saba N, Miller A, **Xiao C**. Gut Microbiome Associated with the Psychoneurological Symptom Cluster in Patients with Head and Neck Cancers with Radiation Therapy. *Cancers* (accepted)

Peer-Reviewed Publications – Submitted/Under review

1. ***Xiao C**, Beitler JJ, Peng G, Levine M, Conneely KN, Zhao H, Felger JC, Wommack EC, Chico CE, Jeon S, Higgins KA, Shin DM, Saba NF, Burtness B, Bruner DW, Miller AH. Epigenetic Age Acceleration, Inflammation, and Cancer-Related Fatigue: A Longitudinal Study of Head and Neck Cancer Patients. Submitted to JCO August 2020.
2. *Williamson Lewis R, Effinger KE, Wasilewski-Masker K, Mertens A, **Xiao C**. Self-Reported Late Effect Symptom Clusters Among Young Pediatric Cancer Survivors. Submitted to JCO August 2020.
3. ***Xiao C**, Fedirko V, Beitler JJ, Bai J, Peng G, Zhou C, Gu J, Zhao H, Lin IH, Chico CE, Jeon S, Knobf TM, Conneely KN, Higgins KA, Shin DM, Saba NF, Miller AH, Bruner DW. The Role of the Gut Microbiome in Cancer-Related Fatigue: Pilot Study on Epigenetic Mechanisms. Supportive care in cancer (submitted at May 2020 and under review)
4. *VR Dhere, CE Escott, JM Switchenko, JP Bell, MW McDonald, WA Stokes, CB Hess, KR Magliocca, BJ Boyce, AS Kaka, NF Saba, CE Steuer, DM Shin, **C Xiao**, L Ottenstein, MR Patel, JJ Beitler. Omission of Intentional Op-Bed Radiation The Omission of Intentional Primary Site Radiation Following Transoral Robotic Surgery (TORS) in 59 Patients: No Local-Regional Failures. Cancer (submitted at May 2020 and under revision)

Other Publications (please label as book chapter, book review, research abstract, software, video, etc.)

1. Book chapter: **Xiao C**, Torres M. (2019). ‘Cancer-related fatigue’ in Wright J.L. (ed.) Toxicities of Radiation Treatment for Breast Cancer - Risks and Management Strategies. Springer publisher.
2. Research abstract: *Higgins KA, Hu C, Ross H, Jabbour S, Kozono D, Owonikoko T, Movsas B, **Xiao C**, Solberg T, Williams T, Simko J, Wang X, Stinchcombe T, Bradley J. P2.12-20 NRG Oncology/Alliance LU005: A Phase II/III Randomized Study of Chemoradiation Versus Chemoradiation Plus Atezolizumab in LS-SCLC. Journal of Thoracic Oncology. 2019;14(10):S821
3. Research abstract: ***Xiao C**, Eldridge RC, Beitler JJ, Higgins KA, Cynthia CE, Withycombe JS, Wommack EC, Felger J, Knobf TM, Miller AH, Bruner DW. Latent class analysis of fatigue and its association with quality of life and inflammation in patients with head and neck cancer who have undergone definitive radiation. Quality of Life Research. 2019, 28 (Supplement).
4. Research abstract: ***Xiao C**, Beitler JJ, Higgins KA, Zhu Y, Zhao H, Bruner DW, Miller AH, Gary R. Pilot Study of Combined Aerobic and Resistance Exercise on Fatigue for Patients with Head and Neck Cancer: Inflammatory and Epigenetic Changes. Brain, Behavior, and Immunity. 2019 (Supplement).
5. Research abstract: *Eldridge RC, Flanders WD, Adler C, Bruner DW, **Xiao C**. Are We Underestimating Cancer Mortality?: A Mediation Model Reveals a Larger Impact from Smoking. AACR Proceedings. 2019.
6. Research abstract: ***Xiao C**, Eldridge RC, Higgins KA, Saba NF, Shin DM, Miller AH, Bruner DW, Beitler JJ. Latent class analysis of fatigue in patients with head and neck cancer. Quality of Life Research. 2018, 27(1, Supplement).
7. Research abstract: *Ferris M, Switchenko J, **Xiao C**, McDonald M, Eaton B, Higgins K, Press R, Tian S, Steuer C, Baddour H, Miller AH, Bruner DW, Beitler JJ. Medulla Dose is Positively Associated with Sensation of Thirst & Midbrain Dose is Inversely Associated with Pain: Prospectively-Collected Patient-Reported Toxicities and Brainstem Dose in Head and Neck Cancer Radiation Therapy. International Journal of Radiation Oncology • Biology • Physics. 2018, 102(3 Supplement):e198.
8. Research abstract: *Eldridge RC, Miller AH, Bruner DW, Beitler JJ, Higgins KA, Wommack EC, Huynh L, Saba NF, Shin DM, **Xiao C**. Predicting fatigue levels of head and neck cancer patients with gene expression using machine learning. AACR Proceedings. 2018.
9. Research abstract: *Higgins KA, Saba NF, Shin DM, Beitler JJ, Chen G, **Xiao C**, Wang D, Tang S, Wang Y. Circulating Pre-treatment miRNAs as Potential Biomarkers to Predict Radiation Toxicity. International Journal of Radiation Oncology • Biology • Physics. 2017, 99: E596.

10. Research abstract: *Torres M, Miller AH, **Xiao C**, Lin J, Godette KD, Kahn ST, Han T, Mister D, Henry S, Yang X, Liu T. A Prospective Longitudinal Study of Radiation Therapy Induced Skin Toxicity and Long-term Fatigue in Breast Cancer Patients. *International Journal of Radiation Oncology • Biology • Physics*. 2017. 99: S4.
11. Research abstract: ***Xiao C**, Beitler JJ, Higgins KA, Glazer T, Huynh LK, Paul S, Wommack EC, Nabil F, Saba NF, Shin DM, Bruner DW, Miller AH. HPV status is associated with fatigue and inflammation in patients with squamous cell carcinoma of the Head and Neck from pre to up to 3 Months Post. *Brain, Behavior, and Immunity*. 2017, 66(Supplement): e36.
12. Research abstract: ***Xiao C**, Beitler JJ, Higgins KA, Saba NF, Huynh LK, Glazer T, Paul S, Shin DM, Miller AH, Bruner DW. HPV status is associated with fatigue at one year post IMRT for patients with head and neck cancer. *Quality of Life Research*. 2017, 26(1, Supplement).
13. Research abstract: ***Xiao C**, Miller A, Felger J, Mister D, Liu T, Torres M. Depression and inflammation are independent predictors of fatigue in breast cancer survivors. *Brain, Behavior, and Immunity*. 2016, 57(Supplement):e.6.
14. Research abstract: ***Xiao C**, Beitler JJ, Higgins KA, Nabil F, Saba NF, Shin DM, Glazer T, Kowalski J, Miller AH, Bruner DW. Risk factors for fatigue changes during acute phase of IMRT for patients with head and neck cancer. *Quality of Life Research*. 2016, 25:156.
15. Research abstract: ***Xiao C**, Beitler JJ, Higgins KA, Glazer T, Wommack EC, Shin DM, Saba NF, Bruner DW, Miller AH. Persistent Fatigue is Associated with Persistent Peripheral Inflammation in Patients with squamous cell carcinoma of the Head and Neck Cancer up to 3 Months Post IMRT. *International Journal of Radiation Oncology • Biology • Physics*. 2016, 96(2S):E348.
16. Research abstract: *Beitler JJ, Switchenko JM, Dignam JJ, Higgins KA, Eaton BR, El-Deiry MW, Saba NF, Magliocca KR, Kendi ATK, **Xiao C**, Hudgins PA, Le QT, Curran WJ. Distant Metastatic Rate in Oropharyngeal Squamous Cell Cancer Was Associated with Age, Smoking Status, and Nodal Disease in an NRG Secondary Analysis. *International Journal of Radiation Oncology • Biology • Physics*. 2016, 96(2S).
17. Research abstract: *Ferris MJ, Zhong J, Switchenko JM, Higgins KA, McDonald MW, Eaton BR, Miller AH, Bruner DW, **Xiao C**, Beitler JJ. CNS Dose is Not Associated with Treatment-Related Fatigue in Patients Undergoing Radiation Therapy for Head and Neck Cancer. *International Journal of Radiation Oncology • Biology • Physics*. 2016, 96(2S):E357.
18. Research abstract: ***Xiao C**, Beitler J, Higgins K, Felger J, Conneely K, Dwivedi B, Kowalski J, Burner DW, Miller A. Gene expression changes and fatigue during IMRT in Patients with Head and Neck Cancer. *Brain, Behavior, and Immunity*. 2015, 49(Supplement):e28-e29.
19. Research abstract: ***Xiao C**, Beitler J, Higgins K, Felger J, Ong L, Shin DM, Saba NF, Burner DW, Miller A. Increased Fatigue is Associated with TNF and NFκB-Regulated Inflammatory Signaling in Patients with Head and Neck Cancer Receiving IMRT. *International Journal of Radiation Oncology • Biology • Physics*. 2014, 90: S571.
20. Research abstract: ***Xiao C**, Beitler J, Higgins K, Felger J, Bruner J, Flynn T, Burner DW, Miller A. The Relationship between Inflammation and Fatigue Development in Patients with Head and Neck Cancer Receiving IMRT. *Brain, Behavior, and Immunity*. 2014 (Supplement): e37.
21. Research abstract: ***Xiao C**, Beitler JJ, Ong L, Miller AH, Burner DW. Risk Factors of IMRT Induced Fatigue in Head and Neck Cancer Patients. *Oncology Nursing Forum*. 2013, 40(6):E440-E441.
22. Research abstract: *Small W, Lin L, Strauss J, **Xiao C**, Bruner DW. Vaginal Length after Vaginal Brachytherapy for Endometrial Cancer. *Journal of Sexual Medicine*. 2012, 9:198.
23. Research abstract: ***Xiao C**, Hanlon A, Zhang Q, Ang K, Rosenthal DI, Nguyen-Tan PF, Kim H, Movsas B, Burner DW. Predictors on longitudinal changes of clinician reported symptom clusters identified in patients with head and neck cancer treated on RTOG trials. *International Journal of Radiation Oncology • Biology • Physics*. 2011, 81(2):S534.
24. Book chapter: Zhou K, **Xiao C**, Luo C, Shi L. (2006) *Basic Nursing Skills (Bilingual: Chinese and English)*. Science publisher.

SCHOLARSHIP: PRESENTATIONS (invited presentations denoted with #,
podium presentations denoted with ^)

International Presentations (if conference is run by an international organization)

1. #Xiao C. Epigenetic Age, Inflammation, and Fatigue in Cancer Patients. West China-Yale Nursing Development Online Conference, July 2020.
2. Eldridge RC, Bai J, Castellino SM, Xiao C, Withycombe J. Fatty acid and amino acid metabolic pathways are linked to psychoneurological symptoms (i.e., pain, fatigue, anxiety, depression) in children with cancer. Metabolomics Association of North America conference. 2020
3. K. Higgins, C. Hu, H. Ross, S. Jabbour, D. Kozono, T. Owonikoko, B. Movsas, C. Xiao, T. Solberg, T. Williams, J. Simko, X. Wang, T. Stinchcombe, J. Bradley. NRG Oncology/Alliance LU005: A Phase II/III Randomized Study of Chemoradiation Versus Chemoradiation Plus Atezolizumab in LS-SCLC. World Conference on Lung Cancer. Barcelona, Spain. September 2019
4. Xiao C, Beitler JJ, Higgins KA, Zhu Y, Zhao H, Bruner DW, Miller AH, Gary R. Pilot Study of Combined Aerobic and Resistance Exercise on Fatigue for Patients with Head and Neck Cancer: Inflammatory and Epigenetic Changes. The 26th PNIRS annual conference. Berlin, Germany. June 2019
5. Xiao C, Eldridge RC, Higgins KA, Saba NF, Shin DM, Miller AH, Bruner DW, Beitler JJ. Latent class analysis of fatigue in patients with head and neck cancer. The ISOQOL 25th Annual Conference. Dublin, Ireland. October 2018.
6. Xiao C, Smith A, Conneely K, Beitler JJ, Higgins KA, Wommack EC, Shin DM, Saba NF, Bruner DW, Miller AH. Epigenetic Mechanisms of Inflammation and Fatigue in Patients with Cancer. Accepted as a **symposium** at the Sigma Theta Tau International's 29th International Nursing Research Congress. Melbourne, Australia, July 2018.
7. Xiao C, Eldridge RC, Beitler JJ, Higgins KA, Felger J, Wommack EC, Saba NF, Shin DM, Bruner DW, Miller AH. The association between glucocorticoid receptor sensitivity and fatigue in patients with head and neck cancer. Accepted as a **Proffered Paper** at the Multinational Association of Supportive Care in Cancer (MASCC) and the International Society of Oral Oncology (ISOO). Vienna, Austria, June 2018.
8. #Xiao C. Fatigue and Inflammation in Patients with Head and Neck Cancer. Nanfang Hospital, Guangzhou, China, July 2017.
9. #Xiao C. Fatigue and Inflammation in Patients with Head and Neck Cancer. Southern Medical University, Guangzhou, China, July 2017.
10. Xiao C, Beitler JJ, Higgins KA, Saba NF, Huynh LK, Glazer T, Paul S, Shin DM, Miller AH, Bruner DW. HPV status is associated with fatigue at one-year post IMRT for patients with head and neck cancer. The International Society for Quality of Life Research (ISOQOL). Philadelphia, PA, October 2017.
11. Xiao C, Beitler JJ, Higgins KA, Nabil F. Saba NF, Shin DM, Glazer T, Kowalski J, Miller AH, Bruner DW. Risk factors for fatigue changes during acute phase of IMRT for patients with head and neck cancer. The International Society for Quality of Life Research (ISOQOL). Copenhagen, Denmark, October 2016.
12. Xiao C, Miller A, Felger J, Mister D, Liu T, Torres M. Depression and inflammation are independent predictors of fatigue in breast cancer survivors. Psychoneuroimmunology Research Society. Brighton, England, June 2016.
13. Xiao C, Beitler J, Higgins K, Ong L, Miller A, Bruner DW. IMRT-Induced Acute Fatigue in Patients with Head and Neck Cancer: a Prospective Study. The Honor Society of Nursing, Sigma Theta Tau International Research Conference. Hong Kong, China, July 2014.
14. #Xiao C. Symptom clusters in patients with head and neck cancer receiving concurrent chemoradiotherapy. Lawrence S. Bloomberg Faculty of Nursing Emerging Scholars Forum, University of Toronto, Toronto, Canada, November 2013.

15. Small W, Lin L, Strauss J, **Xiao C**, Bruner DW. Vaginal Length after Vaginal Brachytherapy for Endometrial Cancer. Oral Abstract Presented at the World Meeting on Sexual Medicine, Chicago, IL, Aug 26-30, 2012

National Presentations (if conference is run by a national organization)

1. Eldridge RC, Uppal K, Beitler J, Higgins K, Wommack EC, Shin DM, Saba NF, Miller AH, Bruner DW, **Xiao C**. Metabolic differences between smoking-associated and human papillomavirus-associated head and neck cancer independently predicts overall patient survival. AACR. 2020
2. H. Ross, C. Hu, K. Higgins, S. Jabbour, D. Kozono, T. Owonikoko, B. Movsas, **C. Xiao**, T. Solberg, T. Williams, J. Simko, X. Wang, T. Stinchcombe, J. Bradley. NRG Oncology/Alliance LU005: A Phase II/III Randomized Clinical Trial of Chemoradiation Versus Chemoradiation Plus Atezolizumab in Limited Stage Small Cell Lung Cancer. ASCO Virtual. May 2020
3. Bauman JE, Torres-Saavedra PA, Harari PM, Rosenthal DI, Yao M, Hristov D, Chen J, Ferrarotto R, Myers J, Divi V, Ferris RL, Karam SD, Jordan RC, Truong MT, **Xiao C**, Le QT. NRG Oncology RTOG 1216: Joint, Randomized Phase III Study of Adjuvant Radiation Therapy (RT) with Cisplatin, Docetaxel-Cetuximab, or Cisplatin-Atezolizumab in High Risk Head and Neck Squamous Cell Carcinoma (HNSCC). 2019 ASCO
4. **Xiao C**, Eldridge RC, Beitler JJ, Higgins KA, Cynthia CE, Withycombe JS, Wommack EC, Felger J, Knobf TM, Miller AH, Bruner DW. Latent class analysis of fatigue and its association with quality of life and inflammation in patients with head and neck cancer who have undergone definitive radiation. The ISOQOL 26th annual conference. San Diego, CA. October 2019
5. **#Xiao C**. Cancer-Related Fatigue and Inflammation. Yale University Smilow Cancer Center Cancer Prevention and Control group, September 2019.
6. Ferris M, Switchenko J, **Xiao C**, McDonald M, Eaton B, Higgins K, Press R, Tian S, Steuer C, Baddour H, Miller AH, Bruner DW, Beitler JJ. Medulla Dose is Positively Associated with Sensation of Thirst & Midbrain Dose is Inversely Associated with Pain: Prospectively-Collected Patient-Reported Toxicities and Brainstem Dose in Head and Neck Cancer Radiation Therapy. ASTRO. San Antonio, TX. October 2018.
7. Lewis WR, Effinger KE. Wasilewski-Masker K, Mertens A, **Xiao C**. Self-reported late effect symptom clusters among pediatric cancer survivors. Society of Epidemiological Research. Baltimore, MD. June 2018.
8. Eldridge RC, Miller AH, Bruner DW, Beitler JJ, Higgins KA, Wommack EC, Huynh L, Saba NF, Shin DM, **Xiao C**. Predicting fatigue levels of head and neck cancer patients with gene expression using machine learning. AACR. Chicago IL. April 2018.
9. **#Xiao C**. Cancer-Related Fatigue and Inflammation: The Omics Approach. Scientific colloquium: Sleep, Chronic Fatigue and Autoimmune Disease, American Autoimmune Related Disease Association, Washington DC, April 2018.
10. Osunsanya O, **Xiao C**, Eldridge R, Huynh LK. Albumin Levels Affect How Predictive Hemoglobin Levels are of Fatigue in Head and Neck Cancer Patients. Annual Biomedical Research Conference for Minority Students (ABRCMS). Phoenix, AZ, November 2017.
11. Higgins KA, Saba NF, Shin DM, Beitler JJ, Chen G, **Xiao C**, Wang D, Tang S, Wang Y. Circulating Pre-treatment miRNAs as Potential Biomarkers to Predict Radiation Toxicity. 59th ASTRO. San Diego, CA. September 2017.
12. Torres M, Miller AH, **Xiao C**, Lin J, Godette KD, Kahn ST, Han T, Mister D, Henry S, Yang X, Liu T. A Prospective Longitudinal Study of Radiation Therapy Induced Skin Toxicity and Long-term Fatigue in Breast Cancer Patients. 59th ASTRO. San Diego, CA. September 2017.
13. **Xiao C**, Beitler JJ, Higgins KA, Glazer T, Huynh LK, Paul S, Wommack EC, Nabil F, Saba NF, Shin DM, Bruner DW, Miller AH. HPV status is associated with fatigue and inflammation in patients with

- squamous cell carcinoma of the Head and Neck from pre to up to 3 Months Post. Psychoneuroimmunology Research Society. Galveston, TX, June 2017.
14. **Xiao C**, Beitler JJ, Higgins KA, Glazer T, Wommack EC, Shin DM, Saba NF, Bruner DW, Miller AH. Persistent Fatigue is Associated with Persistent Peripheral Inflammation in Patients with squamous cell carcinoma of the Head and Neck Cancer up to 3 Months Post IMRT. The American Society for Therapeutic Radiology and Oncology (ASTRO). Boston, MA, September 2016.
 15. Beitler JJ, Switchenko JM, Dignam JJ, Higgins KA, Eaton BR, El-Deiry MW, Saba NF, Magliocca KR, Kendi ATK, **Xiao C**, Hudgins PA, Le QT, Curran WJ. Distant Metastatic Rate in Oropharyngeal Squamous Cell Cancer Was Associated with Age, Smoking Status, and Nodal Disease in an NRG Secondary Analysis. The American Society for Therapeutic Radiology and Oncology (ASTRO). Boston, MA, September 2016.
 16. Ferris MJ, Zhong J, Switchenko JM, Higgins KA, McDonald MW, Eaton BR, Miller AH, Bruner DW, **Xiao C**, Beitler JJ. CNS Dose is Not Associated with Treatment-Related Fatigue in Patients Undergoing Radiation Therapy for Head and Neck Cancer. The American Society for Therapeutic Radiology and Oncology (ASTRO). Boston, MA, September 2016.
 17. **Xiao C**, Miller A, Felger J, Mister D, Liu T, Torres M. Depression and inflammation are independent predictors of fatigue in breast cancer survivors. Diagnosis, Mechanisms, and Management of Cancer Treatment-Induced Neurotoxicity: Neuropathy, Fatigue and Cognitive Impairment. Houston, Texas, January 2016.
 18. **Xiao C**, Beitler J, Higgins K, Felger J, Conneely K, Dwivedi B, Kowalski J, Burner DW, Miller A. Gene expression changes and fatigue during IMRT in Patients with Head and Neck Cancer. Psychoneuroimmunology Research Society. Seattle, WA, June 2015.
 19. **Xiao C**, Beitler J, Higgins K, Felger J, Ong L Shin DM, Saba NF, Burner DW, Miller A. Increased Fatigue is Associated with TNF and NFκB-Regulated Inflammatory Signaling in Patients with Head and Neck Cancer Receiving IMRT. The American Society for Therapeutic Radiology and Oncology (ASTRO). San Francisco, CA, September 2014.
 20. **Xiao C**, Beitler J, Higgins K, Felger J, Bruner J, Flynn T, Burner DW, Miller A. The Relationship between Inflammation and Fatigue Development in Patients with Head and Neck Cancer Receiving IMRT. Psychoneuroimmunology Research Society. Philadelphia, PA, May 2014.
 21. Ong, L. Xiao, C, Bruner, DW. Gender Disparities in NIH Funding of Female vs Male Sexual Function Research. Southern Nursing Research Conference, San Antonio, TX, February 12-15, 2014.
 22. **Xiao C**, Felger J, Mister D, Liu T, Miller A, Torres M. A prospective study on behavioral symptoms' impact to the quality of life in early stage patients receiving radiotherapy. Breast Cancer Symposium American Society of Clinical Oncology (ASCO). San Francisco, CA, September 2013.
 23. **Xiao C**, Beitler JJ, Ong L, Miller AH, Burner DW. Risk Factors of IMRT Induced Fatigue in Head and Neck Cancer Patients. ONS the Connections: Advancing Care through Science Conference. Dallas, TX, November 2013.
 24. **Xiao C**, Hanlon A, Zhang Q, Ang K, Rosenthal DI, Nguyen-Tan PF, Kim H, Movsas B, Burner DW. Identifying clinician reported symptom clusters in patient with head and neck cancer post combined chemoradiation therapy. ONS the Connections: Advancing Care through Science Conference. Phoenix, AZ, November 2012.
 25. **Xiao C**, Hanlon A, Burner DW. Comparison of Missing Data Imputation Techniques in Factor Analysis. Council for the Advancement of Nursing Science Conference. Washington, DC, September 2012.
 26. **Xiao C**, Hanlon A, Zhang Q, Ang K, Rosenthal DI, Nguyen-Tan PF, Kim H, Movsas B, Burner DW. Predictors on longitudinal changes of clinician reported symptom clusters identified in patients with head and neck cancer treated on RTOG trials. The American Society for Therapeutic Radiology and Oncology (ASTRO) 53rd Annual Meeting. Miami Beach, FL, October 2011.
 27. **Xiao C**. Bruner, D.W., & Hanlon, A. Measuring longitudinal changes of symptom clusters based on factor analysis. ONS 11th National Conference on Cancer Nursing Research. Los Angeles, CA, February 2011.

28. **Xiao C.** The impact of symptoms on quality of life for patients with head and neck cancer after radiotherapy. ENRS 22nd Annual Scientific Sessions, Providence, RI, March 2010.
29. **Xiao C.** The state of science in the study of cancer symptom clusters. ENRS 21st Annual Scientific Sessions. Boston, MA, March 2009.

State/Regional Presentations (if conference is run by a stat/regional organization)

1. Eldridge RC, Flanders WD, Adler C, Bruner DW, **Xiao C.** Are We Underestimating Cancer Mortality?: A Mediation Model Reveals a Larger Impact from Smoking. Atlanta, GA. 2019 AACR.
2. Reynolds K, **Xiao C.** Risk Factors for Depressive Symptoms in HPV Positive Patients with Oropharyngeal Cancer. 32nd SNRS. Atlanta GA. March 2018.
3. Osunsanya O, **Xiao C.** Analysis of the Correlation between Fatigue and Hb Levels in Head and Neck Cancer Patients. Emory Undergraduate Research Symposium, Atlanta, GA, April 2017.
4. **Xiao C.** Fatigue and Inflammation in Patient with Head and Neck Cancer: The Omics Approach. Emory School of Nursing Research Roundtable, October 4, 2016.
5. **Xiao C.** Fatigue and Inflammation in Patient with Head and Neck Cancer. Emory School of Medicine Department of Radiation Oncology, August 10, 2016.
6. Domin B, **Xiao C.** Severity of head and neck symptom clusters in response to inflammatory signaling during radiotherapy. Emory Undergraduate Research Symposium, Atlanta, GA, April 2016.
7. Dallara M, **Xiao C.** Cognitive Impairment and Inflammation in Head and Neck Cancer Patients. Emory Undergraduate Research Symposium, Atlanta, GA, April 2016.
8. Kadwalwala M, **Xiao C.** Predictors for Post-IMRT Fatigue in Head and Neck Cancer Patients. Emory Undergraduate Research Symposium, Atlanta, GA, April 2015.
9. **Xiao C.** Fatigue and Inflammation in Patient with Head and Neck Cancer. Emory Winship Cancer Institute Cancer Prevention and Control group, February 19, 2015.
10. **Xiao C.** Treatment-related symptoms and symptom clusters in patients with head and neck cancer. Emory University Department of Otolaryngology Grand Rounds. Atlanta, GA, March 2013.

TEACHING ACTIVITIES

Courses Taught

Semester, Year	Name of Course	Role in Course
Spring, 2020	NURS909, Science, Scholarship and Communication of Knowledge	Instructor
Fall, 2019	NURS908, Science, Scholarship and Communication of Knowledge	Instructor
Summer, 2018	NRSG204: Introduction to Biostatistics (online course)	Coordinator
Spring, 2018	NRSG204: Introduction to Biostatistics (online course)	Coordinator
Fall, 2017	NRSG204: Introduction to Biostatistics (online course)	Coordinator
Spring, 2017	NRSG204: Introduction to Biostatistics (online course)	Coordinator
2016-2017	NRSG732: Theoretical and Conceptual Bases for the Study of Clinical Phenomena	Guest Lecturer
2016-2017	EPI585: Advanced Topics in Cancer Epidemiology	Guest Lecturer
Fall, 2016	NRSG204: Introduction to Biostatistics (online course)	Coordinator
Spring, 2016	NRSG371, Professional Development II:	Seminar Leader

Fall, 2015	Evidence Based Nursing Practice NRSG736, Quantitative Analysis of Clinical Research Data (Using SPSS)	Instructor
Spring, 2015	NRSG371: Evidence Based Nursing Practice	Seminar Leader
Spring, 2015	NRSG505: Research and Evidence Based Practice	Seminar Leader
Fall, 2014	NRSG450: Human Clinical Genetics	Coordinator
2013-2015	NRSG730: Measurement and Design in Clinical Research	Guest Lecturer
2013-2014	NRSG705: Endogenous and Exogenous Determinants of Human Health	Guest Lecturer

PROFESSIONAL AND UNIVERSITY SERVICE ACTIVITIES

Membership in Professional Organizations

Year(s)	Name of Organization	Role
2018-2020	Membership Committee, International Society for Quality of Life Research (ISOQOL)	Co-chair
2019	Psychoneuroimmunology Research Society conference	Mentor
2018-Present	Psychoneuroimmunology Research Society conference abstracts	Reviewer
2018	Multinational Association of Supportive Care in Cancer (MASCC)	Member
2018	International Society of Oral Oncology (ISOO)	Member
2017-Present	ISQOL conference	Abstract and symposium Reviewer
2017-2019	New Investigator SIG, ISOQOL	Co-chair
2017-Present	Oncology Nursing Society (ONS)	Grant Reviewer
2015-Present	ISQOL	Member
2014-Present	NRG Oncology Group Head and Neck Cancer	Committee Member
2014-Present	Psychoneuroimmunology Research Society	Member
2013-2018	Southern Nursing Research Society (SNRS)	Member
2010-Present	American Nursing Association (ANA)	Member
2010	ONS	Member
2009-2011	Eastern Nursing Research Society (ENRS)	Member
2008-Present	Honor Society of Nursing, Sigma Theta Tau International	Member

Manuscript Reviewer

2020-Present	Physiology & Behavior	Reviewer
2020-Present	Genetic Epidemiology	Reviewer
2018-Present	Quality of Life Research	Reviewer
2017-Present	Cancer	Reviewer
2016-Present	International Journal of Radiation Oncology	Reviewer
2015-Present	Brain, Behavior, and Immunity	Reviewer
2015-Present	Supportive Cancer in Cancer	Reviewer
2015-Present	Journal of Oncology Practice	Reviewer
2014-Present	Western Journal of Nursing Research	Reviewer
2013-Present	Oncology Nursing Forum	Reviewer
2013-Present	Research in Nursing & Health	Reviewer

2013-Present	European Journal of Oncology Nursing	Reviewer
2013-Present	Cancer Nursing	Reviewer

Emory University Service

2017-2018	Winship Faculty and Trainee Development Committee Nominations Subcommittee	Member
2016-2018	Emory University Library Policy Committee	Member
2015-2018	Emory University Winship Cancer Institute Pilot Grant (Winship Invests) Review Committee	Grant Reviewer
2014-2018	Emory Winship Cancer Institute	Core Member

Nell Hodgson Woodruff School of Nursing Service

2018	T32 Recruitment Committee	Member
2017-2018	PhD Admission Committee	Member
2017-2018	Research Committee	Co-chair
2015-2018	Research Committee	Member
2011-2012	Search Committee for Associate Dean for Research	Member

Prior Service at Other Universities

2020-Present	Yale Center for Immuno-Ocology	Member
2019-Present	Yale University School of Nursing Faculty Search Committee	Chair
2019-Present	Yale University School of Nursing Faculty Appointment and Promotion Committee	Member
2019-Present	Yale University School of Nursing Board of Permanent Officers	Member
2019-Present	Yale Cancer Center	Full Member
2019-2020	Yale University School of Nursing Curriculum Council	Member
2019-2020	Yale University School of Nursing Curriculum Council	Member
2017-2018	American Cancer Society Institutional Research Grant (ACS IRG)	Executive Committee Member
2008-2009	University of Pennsylvania School of Nursing, Doctoral Student Association	Treasurer