

WENDY A. HENDERSON, PhD, MSN, CRNP, FAAN
Professor
Director, Center of Nursing Scholarship and Innovation
University of Connecticut School of Nursing
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Education and Training

2007-2009 Post-doctoral Training, Staff Scientist, National Institute of Nursing Research, National Institutes of Health, Department of Health and Human Services, Bethesda, MD
 Focus: Immuno-Genetic Bench Training in Gastroenterology, Hepatology and Nutritional Disorders

2007 Clinical & Translational Science Institute Fellow, School of Medicine, University of Pittsburgh, Pittsburgh, PA

2003-2007 PhD, University of Pittsburgh, PA
 Dissertation: Testing a Model of Health-related Quality of Life in Persons with HIV and Liver Disease

2005 Patient Safety Fellowship, Jewish Healthcare Foundation
 Pittsburgh, PA

1995-1999 MSN, Health Promotion and Development, Pediatrics, University of Pittsburgh, PA

1993 Brighton Technical Institute, University of Pittsburgh, Eastbourne, England

1989-1994 BSN, cum laude, University of Pittsburgh, PA

Certification

1999- present Certified Registered Nurse Practitioner (CRNP), Pediatric Primary Care

Employment History

Academic

2020- Professor, with tenure approved June 2020, University of Connecticut, School of Nursing, Storrs, CT

2019-present Director, Center for Nursing Scholarship and Innovation, University of Connecticut, School of Nursing, Storrs, CT

2019-present Special Volunteer, Laboratory of Host Pathogen Dynamics, PI Nihal Altan-Bonnet, National Heart Lung and Blood Institute, NIH, DHHS, Bethesda, MD

2019-2020 Visiting Professor, University of Connecticut, School of Nursing, Storrs, CT

2011-2019 Investigator and Lab Chief, Digestive Disorder Unit, Biobehavioral Branch, Division of Intramural Research, NINR, NIH, DHHS, Bethesda, MD

2011-2019 Director and Founder, Clinical and Translational Postdoctoral Fellowship Program, Biobehavioral Branch, Division of Intramural Research, NINR, NIH, DHHS, Bethesda, MD

2018-2019 Research Professor, University of Connecticut, School of Nursing, Storrs, CT
 2018-2019 Foundation for the Advancement of Education in Science, NIH Foundation, Microbiome, Immunology, Bethesda, MD
 2013- 2018 Adjunct Graduate Faculty, University of Connecticut, School of Nursing, Storrs, CT
 2009- 2011 Assistant Clinical Investigator, Biobehavioral Unit, Symptom Management Branch, Intramural Research Program, NINR, NIH, DHHS, Bethesda, MD
 2007-2009 Staff Scientist, Biobehavioral Unit, Symptom Management Branch, Intramural Research Program, NINR, NIH, DHHS, Bethesda, MD
 2005-2007 Faculty, Duquesne University, Instructor, School of Nursing Pittsburgh, PA
 2004-2006 Graduate Student Researcher, Managing HIV Medications Study, PI: Dr. Judith A. Erlen, University of Pittsburgh, School of Nursing, Pittsburgh, PA
 2000-2003 Clinical Faculty, University of Pittsburgh, Department of Pediatrics, Chair: Dr. David H. Perlmutter, School of Medicine, Pittsburgh, PA
 1997-1999 Graduate Student Assistant, University of Pittsburgh, School of Nursing, Learning Resources Center, Pittsburgh, PA
 1991-1994 Research Assistant, Learning Resources Center, University of Pittsburgh, School of Nursing, Pittsburgh, PA

Non- Academic

2008-2019 Clinical Consultant/Nurse Practitioner, Pediatric Gastroenterology, Hepatology and Nutrition, Consult Team, NIH Clinical Center, Bethesda, MD
 2003-2005 Research Coordinator, Children's Hospital of Pittsburgh, Division of Pediatric Gastroenterology, Hepatology, and Nutrition, Pittsburgh, PA
 1999-2003 Pediatric Nurse Practitioner, Division of Pediatric Gastroenterology, Hepatology and Nutrition, Children's Hospital of Pittsburgh, Pittsburgh, PA
 1997 Clinical Nurse, Emergency Department, Children's Hospital of Pittsburgh, Pittsburgh, PA
 1995-1997 Clinical Specialist II/ Recruitment Coordinator, Diabetes Prevention Program, NIDDK, NIH, University of Pittsburgh Medical Center, Western Psychiatric Institute and Clinic Pittsburgh, PA
 1994-1995 Clinical Nurse, Eye and Ear Hospital, Montefiore University Hospital, University of Pittsburgh Medical Center Pittsburgh, PA
 1993-1994 Nurse Intern, Cardiothoracic Intensive Care Unit, Ambulatory Surgery Center, HEENT, Family Practice Unit Shadyside Hospital, Pittsburgh, PA
 1993 Corporate Intern, Healthquest Community and Corporate Wellness Program, PNC, Pittsburgh, PA

Board Certification

2014 NIH Conscious Sedation Certification
 2010 National Provider Identifier, 1922328244
 2008 CRNP Prescriptive Authority Approval, MD, R181106 active 2020
 2008 Maryland RN Licensure, R181106 active 2020
 2003 CRNP Prescriptive Authority Approval, PA, SP-005687-D
 2001 Pediatric Advanced Life Support (PALS) Certified- through 7/2020
 1999 Pennsylvania Certified Registered Nurse Practitioner- (CRNP), SP-005687-D
 1994 Pennsylvania RN Licensure, RN-500382-L- inactive
 1990 Basic Life Support (Provider)- recommended renewal 6/2021

HONORS/AWARDS:

2019	Founders Award, In recognition of Excellence in Genomic Nursing Research, International Society of Nurses in Genomics
2019	Digestive Disease Week, Shark Tank, 2 nd Place International Innovation with Dr. Chang Hee Kim
2018	American Gastroenterological Association (AGA)- Future Leader Awardee
2018	AGA 2018 Tech Summit- 1 st Prize Innovation with Dr. Chang Hee Kim
2018	NINR Director's Award, Diversity Award
2018	NIH Merit Award (all years 2007-2019-for exceptional service 12 consecutive years)
2016	American Academy of Nursing, Inducted Fellow
2014	NINR Director's Award, Leadership Award
2010	NINR Director's Award, Innovation Award
2010	Nominee, Outstanding NIH Post-baccalaureate Mentorship Award
2007	Pennsylvania Higher Education Foundation Scholarship
2006	Association for Nurses in AIDS Care/Sigma Theta Tau International Research Award
2006	Rose Constantino Scholarship for doctoral studies
2006	Sigma Theta Tau, Epsilon Phi, Research Award
2006	Eastern Nursing Research Society, 2 nd place Doctoral paper
2006	Pennsylvania Higher Education Foundation grant
2005	Corrine Barnes Scholarship for pediatric graduate studies
2004	Corrine Barnes Scholarship for pediatric graduate studies
2000	Service Star – Children's Hospital of Pittsburgh
1994	Cum Laude Graduate/Golden Key
1994	Enid Goldberg Senior Leadership Award
1994	Ellen Chaffee Endowmentn Scholarship recipient
1993	National Student Nurses Association, Mary Olexa Scholarship
1993	Student Nurses Association of Pennsylvania Scholarship
1993	Study Abroad University of Pittsburgh Scholarship to study socialized medicine, nursing and healthcare in England

PUBLICATIONS

**A. Selected Full-Length Journal Articles, Refereed ([DB= data-based; [CA] = corresponding author
i10-index= 30; h-index= 17 (Google Scholar); Citations 1010
<https://scholar.google.com/citations?user=hOckyrUAAAAJ&hl=en>**

1. Diallo AF, Lockwook MB, Maki K, Franks AT, Roy A, Rosario JL, Joseph PV, **Henderson WA**, Chung SY, McGrath J, Green SJ, Fink AM. Metabolic profiling of blood and urine for exploring the microbiota role in human health. *Biological Research in Nursing*, February 5, 2020 in press.
2. Gonzalez-Mercado VJ, Pérez-Santiago J, Lyon D, Dilán-Pantojas I, **Henderson WA**, Susan C. McMillan SC, Groer M, B, Kane B, Marrero S, Pedro E & Saligan LN. The Role of Gut Microbiome Perturbation in Fatigue Induced by Repeated Stress from Chemo-Radiotherapy; A Proof of Concept Study. *Advances in Medicine*, 2020. Article ID 6375876 <https://doi.org/10.1155/2020/6375876> [DB]

3. Fu MR, Kurnat-Thoma E, Starkweather A, **Henderson WA**, Cashion AK, Williams JK, Katapodi MC, Reuter-Rice K, Hickey KT, Barcelona de Mendoza V, Calzone K, Conley YP, Anderson CM, Lyon DE, Weaver MT, Shiao PK, Constantino RE, Wung SF, Hammer MJ, Voss JG, Coleman B. Precision Health: A Nursing Perspective. *International Journal of Nursing Sciences*, 2020; 7(1):5-12.
<https://doi.org/10.1016/j.ijnss.2019.12.008>
4. Robinson JM, Turkington S, Abey SA, Kenea N, **Henderson WA**. Differential gene expression and gene-set enrichment analysis in Caco-2 monolayers during a 30-day timeline with Dexamethasone exposure. *Tissue Barriers*, 2019;7(3):e1651597. <https://doi.org/10.1080/21688370.2019.1651597>. Epub 2019 Aug 22. [DB] [CA]
5. Joseph PV, Jaime-Lara RB, Wang Y, Xiang L, **Henderson WA**. Comprehensive and Systemic Analysis of Gene Expression Patterns Associated with Body Mass Index. *Scientific Reports*, May 2019, 9: 7447.
<https://doi.org/10.1038/s41598-019-43881-5>. [DB] [CA]
6. Weaver KR, Melkus G, Fletcher J, **Henderson WA**. Relevance of sex and subtype in patients with IBS; An exploratory study of gene expression. *Biological Research For Nursing*, Online 2019 Dec 13; 2020 Jan;22(1):13-23. <http://doi.org/10.1177/1099800419889189>. PMID: 31833409. [DB] [CA]
7. Diallo AF, McGlothen-Bell K, Walsh S, Lucas R, Allen C, **Henderson WA**, Cong X, McGrath J. Feeding modes, duration and diarrhea in infancy: continued evidence of the protective effects of breastfeeding, *Public Health Nursing*, 2019 Nov 10, online, 2020; 37(2): 155-160. <http://doi:10.1111/phn.12683>. [DB]
8. Robinson JM, Boulineaux CM, Butler KR, Joseph PV, Murray MT, Pocock SN, Sherwin LB, Turkington SC, Weaver K, **Henderson WA**. Complete blood count with differential: An effective diagnostic for IBS subtype in the context of BMI? Preprint online April 18, 2019 *BioRxiv*. doi: <https://doi.org/10.1101/608208>. [DB] [CA]
9. Dorsey SG, Renn CL, Griffieon M, Lassiter CB, Zhu S, Huot-Creasy H, McCracken C, Mahurkar A, Shetty AC, Jackson-Cook CK, Kim H, **Henderson WA**, Saligan L, Gill J, Colloca L, Lyon D, Starkweather A. Whole blood transcriptomic profiles can differentiate vulnerability to chronic low back pain. *PLOS ONE*. 2019 May 16;14(5):e0216539. <https://doi:10.1371/journal.pone.0216539>. [DB]
10. Dorsey SG, Griffieon MA, Renn CL, Cashion AK, Colloca L, Jackson-Cook CK, Gill J, **Henderson WA**, Kim H, Saligan L, Starkweather AR, Lyon D. Working Together to Advance Symptom Science in the Precision Era. *Nursing Research*, 2019, 68 (2), 86-90.
11. **Henderson WA**, Xiang L, Fourie NH, Abey SK, Ferguson EG, Diallo AF, Kenea ND, Kim CH. Simple Lateral Flow Assays for Microbial Detection in Stool. *Analytical Methods*, 2018, September 20
<https://doi.org/10.1039/C8AY01475B>. [DB] [CA]
12. Alao H, Cam M, Keembiyehetty C, Zhang F, Serti E, Suarez D, Park H, Fourie NH, Wright EC, **Henderson WA**, Li Q, Liang TJ, Reherrmann B, Ghany MG. Baseline Intrahepatic and Peripheral Innate Immune Responses are Associated with Hepatitis C Virus Clearance During DAA Therapy. *Hepatology*, 2018 Apr 27. doi: 10.1002/hep.29921. [Epub ahead of print] PubMed PMID: 29704252. [DB]
13. *Joseph PV, *Abey SK, Wang D, Fourie NH, Kenea ND, Vishnyakova TG, Robinson JM, Weaver KW, Boulineaux CM, Davidson HR, Sherwin LB, Ozoji O, Diallo AF, Smyser PA, Patterson AP, **Henderson**

- WA.** Colon Epithelial microRNA Network in Fatty Liver. *Canadian Journal of Gastroenterology and Hepatology*, 2018, online August 18, 2018,*co-first. [DB] [CA]
14. Robinson JM, Abey S, Kenea N, **Henderson WA.** A 14-day Dexamethasone timecourse exposure in Caco-2 monolayers results in differential expression of tight-junction and cytoskeleton regulatory pathway genes, 2018, preprint online June 22, 2018 *BioRxiv*. doi: <https://doi.org/10.1101/355552>. [DB] [CA]
 15. Kim CH & **Henderson WA.** ‘Can’t believe we won! (The AGA Shark Tank)’: Building sustainable careers in clinical and translational GI research. *The New Gastroenterologist*. July 26, 2018. [CA]
 16. Robinson JM & **Henderson WA.** Modelling the Structure of a ceRNA-Theoretical, Bipartite microRNA-mRNA Interaction Network Regulating Intestinal Epithelial Cellular Pathways Using R Programming. *BMC Research Notes*, January 2018, 11(1): 19. PMID:29329594. [DB] [CA]
 17. Joseph PV, Wang Y, Fourie NH, **Henderson WA.** A computational framework for predicting obesity risk based on optimizing and integrating genetic risk score and gene expression profiles. *PLOS ONE*, May 24, 2018. <https://doi.org/10.1371/JOURNAL.PONE.0197843>. [DB] [CA]
 18. **Henderson WA** & Mudd-Martin G. Genetics and Genomics in Nursing Science. *Biological Research For Nursing*, 2018 Mar;20(2):117. doi: 10.1177/1099800417754139. Epub 2018 Jan 24. [CA]
 19. Weaver KR, Melkus GD, Fletcher J, **Henderson WA.** Serum proteomics in African American Female Patients with IBS: An Exploratory Study. *Nursing Research*, 2018 May/Jun;67(3):261-267. <https://doi.org/10.1097/NNR.0000000000000281>. PubMed PMID: 29698332. [DB]
 20. Joseph PV, Davidson HR, Fourie NH, Boulineaux CM, Franks A, Abey SA, **Henderson WA.** Eating behavior, stress and adiposity: Discordance between perception and physiology. *Biological Research For Nursing*, 2018, Jan 1: <http://dx.doi.org/10.1177/1099800418779460>. [DB] [CA]
 21. Weaver KR, Melkus G, Fletcher J, **Henderson WA.** Perceived stress, physiological correlates and quality of life, in patients with irritable bowel syndrome. *Biological Research For Nursing*, 2018, Jan; <https://doi.org/10.1177/1099800418756733>. [DB]
 22. Sherwin LB, Ozoji OM, Boulineaux CM, Joseph PV, Fourie NH, Abey SK, Zhang X, **Henderson WA.** Gender and weight influence quality of life in irritable bowel syndrome. *Journal of Clinical Medicine*, 2017 Nov 1: 6 (11). [DB] [CA]
 23. Raizada MK, Joe B, Bryan NS, Chang EB, Dewhirst FE, Borisy GG, Galis ZS, **Henderson WA,** Jose PA, Ketchum CJ, Lampe JW, Pepine CJ, Pluznick JL, Faj D, Seals DR, Gioscia-Ryan RA, Wilson Tang WH, Oh YS. Report of the National Heart, Lung, and Blood Institute Working Group on the Role of Microbiota in Blood Pressure Regulation: Current Status and Future Directions. *Hypertension*, 2017, July 31. <http://dx.doi.org/10.1161/HYPERTENSIONAHA.117.09699>
 24. Xu W, Judge M, Maas K, Hussain N, McGrath JM, **Henderson WA,** Cong X. Systematic Review of the Effect of Enteral Feeding on Gut Microbiota in Preterm Infants. *Journal of Obstetric Gynecologic and Neonatal Nursing*, 2017 Oct 14. pii: S0884-2175(17)30407-0. doi: 10.1016/j.jogn.2017.08.009. [DB]

25. Weaver KR, Melkus G, **Henderson WA**. Irritable Bowel Syndrome: An evidence-based review of new diagnostic criteria and treatment recommendations. *American Journal of Nursing*, 2017 June, 117 (6) 48-55. <http://dx.doi.org/10.1097/01.NAJ.0000520253.57459.01>
26. Starkweather A, Coleman B, Barcelona de Mendoza V, Fu M, Taylor J, & **Henderson WA** (Genomic Nursing & Health Expert Panel) and Kenner C, Walker D, Amankwaa L, Anderson C (Maternal & Infant Expert Panel). Policy Brief: Improve Coverage of Newborn Genetic Screening to Include the Recommended Uniform Screening Panel and Newborn Screening Registry. *Nursing Outlook*, 2017 May 8, <http://dx.doi.org/10.1016/j.outlook.2017.04.009>
27. Cong X, Wu J, Vittner D, Xu Wanli, Hussain N, Galvin S, Fitzsimons M, McGrath JM, **Henderson WA**. The Impact of cumulative pain/stress on neurobehavioral development of preterm infants in the NICU. *Early Human Development*, 2017 Mar 23. <http://dx.doi.org/10.1016/j.earlhumdev.2017.03.003>.
28. Sherwin LB, Leary E, **Henderson WA**. The Association of Catastrophizing with Quality of life outcomes in Patients with Irritable Bowel Syndrome, *Quality of Life Research*, 2017 Mar 21. doi: 10.1007/s11136-017-1554-0. [DB]
29. Fourie NH, Wang D, Abey SK, Creekmore AL, Hong S, Martin C, Wiley JW, **Henderson WA**. Structural and functional alterations in the colonic microbiome in a rat model of stress induced irritable bowel syndrome. *Gut Microbes*, 2017 Jan 2;8(1):33-45. doi: 10.1080/19490976.2016.1273999. [DB] [CA]
30. Diallo AF, Cong X, **Henderson WA**, McGrath J. Management of childhood diarrhea by healthcare professionals in low income countries: An integrative review. *International Journal of Nursing Studies*, 2017 Jan ;66:82-92. <http://dx.doi.org/10.1016/j.ijnurstu.2016.08.014>. [DB]
31. **Henderson WA**, Rahim-Williams B, Kim KH, Sherwin LB, Abey SK, Martino AM, Fourie NH, Heitkemper MM, Zuccolotto AP. The Gastrointestinal Pain Pointer (GIPP): A Valid and Innovative Method to Assess Gastrointestinal Symptoms. *Gastroenterology Nursing*, 2017 PubMed PMID: 26657836; PubMed Central PMCID: PMC4902787. [DB] [CA]
32. Abey SK, Yuana Y, Joseph PV, Kenea ND, Fourie NH, Sherwin LB, Gonye GE, Smyser PA, Stempinski ES, Boulineaux CM, Weaver KR, Bleck CKE, **Henderson WA**. Lysozyme association with circulating RNA, extracellular vesicles, and chronic stress. *BBA Clinical*, 2016 Dec 20;7:23-35. doi: 10.1016/j.bbacli.2016.12.003. [DB] [CA]
33. Abey SK, Yuana Y, Joseph PV, Kenea ND, Fourie NH, Sherwin LB, Gonye GE, Smyser PA, Stempinski ES, Boulineaux CM, Weaver KR, Bleck CKE, **Henderson WA**. Data supporting the effects of lysozyme on mRNA and protein expression in a colon epithelial monolayer scratch wound model. *Data in Brief*, 2016 Dec 29;11:15-18. doi: 10.1016/j.dib.2016.12.043. [DB] [CA]
34. Joseph PV, Abey SK, **Henderson WA**. Emerging role of Nutri-epigenetics in Inflammation and Cancer. *Oncology Nursing Forum*, 2016 Nov 1;43(6):784-788. PubMed PMID: 27768134.
35. Fourie NH, Peace RM, Abey SK, Sherwin LB, Wiley JW, **Henderson WA**. Perturbations of Circulating miRNAs in Irritable Bowel Syndrome Detected Using a Multiplexed High-Throughput Gene Expression Platform. *Journal of Visualized Experiments*, 2016 Nov 30; 117. <http://www.jove.com/video/54693/perturbations-circulating-mirnas-irritable-bowel-syndrome-detected?status=a56699k>. [DB] [CA]

36. Cong X, Xu W, Romiher R, Poveda S, Forte S, Starkweather A, **Henderson WA**. Gut Microbiome and Infant Health: the Brain-Gut Microbiota Axis and Host Genetic Factors, *Yale Journal of Biology and Medicine*. 2016 Sep 30;89(3):299-308. Review. PubMed PMID: 27698614; PubMed Central PMCID: PMC5045139.
37. Sherwin LB, **Henderson WA**, Hansen L & Nail LM. Effect of Illness Representations and Catastrophizing on Quality of Life in Adults with Irritable Bowel Syndrome, *Journal of Psychosocial Nursing and Mental Health Services*, 2016 Sep 1;54(9):44-53. doi: 10.3928/02793695-20160803-01. PubMed PMID: 27576228. [DB]
38. Fourie NH, Wang D, Abey SK, Sherwin LB, Joseph PV, Rahim-Williams B, Ferguson EF, **Henderson WA**. The Microbiome of the Oral Mucosa in Irritable Bowel Syndrome. *Gut Microbes*, 2016 Jul 3;7(4):286-301. PubMed PMID: 26963804; PubMed Central PMCID: PMC4988452. [DB] [CA]
39. Cong X, Xu W, Janton S, **Henderson WA**, Matson A, McGrath JM, Mass K, Graf J. Gut Microbiome Developmental Patterns in Early Life of Preterm Infants: Impacts of Feeding and Gender. *PLoS One*, 2016 Apr 25;11(4):e0152751. doi: 10.1371/journal.pone.0152751. PubMed PMID: 27111847; PubMed Central PMCID: PMC4844123. [DB]
40. Weaver K, Sherwin LB, Walitt B, Melkus GD, **Henderson WA**. Neuroimaging the Brain-Gut Axis in Patients with Irritable Bowel Syndrome. *World Journal of Gastroenterology Pharmacology and Therapeutics*, 2016 May 6;7(2):320-33. doi: 10.4292/wjgpt.v7.i2.320. PubMed PMID: 27158548; PubMed Central PMCID: PMC4848255. [CA]
41. Hardy TM, McCarthy DO, Fourie NH, **Henderson WA**. Anti-Müllerian Hormone Levels and Urinary Cortisol in Women with Chronic Abdominal Pain. *Journal of Obstetric Gynecologic and Neonatal Nursing*, 2016 Sep 14. pii: S0884-2175(16)30292-1. doi: 10.1016/j.jogn.2016.06.012. PubMed PMID: 27639111; PubMed Central PMCID: PMC5107147. [DB] [CA]
42. Cashion AK, Gill J, Hawes R, **Henderson WA**, Saligan L. National Institutes of Health Symptom Science Model Sheds Light on Patient Symptoms. *Nursing Outlook*, 2016 Sep-Oct;64(5):499-506. doi: 10.1016/j.outlook.2016.05.008. PubMed PMID: 27349632; PubMed Central PMCID: PMC5014584.
43. Heitkemper MM, Han CJ, Jarrett ME, Gu H, Djukovic D, Shulman RJ, Raftery D, **Henderson WA**, Cain KC. Serum Tryptophan Metabolite Levels During Sleep in Patients with and without Irritable Bowel Syndrome (IBS). *Biological Research For Nursing*, 2016 Mar;18(2):193-8. doi: 10.1177/1099800415594251. PubMed PMID: 26156003. [DB]
44. Hardy TM, Fourie NH, Zhao X, McCarthy D, **Henderson WA**. The relationship of abnormal Anti-Müllerian hormone levels to chronic abdominal pain and urinary cortisol in women. *Psychoneuroendocrinology*, 2015 Nov;61:70. doi: 10.1016/j.psyneuen.2015.07.584. PubMed PMID: 26383470. [DB] [CA]
45. Cong X, **Henderson WA**, Graf J, McGrath JM. Early Life Experience and Gut Microbiome: The Brain-Gut-Microbiota Signaling System. *Advances in Neonatal Care*, 2015 Aug 3; PMID 26240939.
46. Del Valle-Pinero AY, Sherwin LB, Anderson EM, Caudle RM, **Henderson WA**. Altered Vasoactive Intestinal Peptides expression in Irritable Bowel syndrome Patients and Rats with Trinitrobenzene Sulfonic Acid-induced Colitis. *World Journal of Gastroenterology*, 2015 Jan 7;21(1):155-63. doi: 10.3748/wjg.v21.i1.155. PubMed PMID: 25574088; PubMed Central PMCID: PMC4284331. [DB] [CA]

47. Reddy SY, Rasmussen NA, Fourie NH, Berger RS, Martino AC, Gill JM, Longchamps R, Wang XM, Heitkemper MM, **Henderson WA**. Sleep quality, BDNF genotype and gene expression in individuals with chronic abdominal pain. *BMC Medical Genomics*, 2014, 31-OCT, 7 (1):61. [DB] [CA]
48. Fourie N, Peace RM, Abey SA, Sherwin LB, Rahim-Williams B, Smyser PA, Wiley J, **Henderson WA**. Elevated miR-150 and miR-342-3p in Patients with Irritable Bowel Syndrome, *Experimental Molecular Pathology*, 2014, 21-APR, 96 (3), 422-25, PMID: 24768587. [DB] [CA]
49. Longchamps RJ, Abey SK, Martino AC, **Henderson WA**. Gender-associated cell-free microRNA profiles in non-alcoholic fatty liver disease. *Alimentary Pharmacology & Therapeutics*, 2014, 39(9), 997-98. [DB] [CA]
50. Del Valle-Pinero AY, van Deventer HE, Fourie N, Martino AC, Remaley AT, Patel NS, **Henderson WA**. Gastrointestinal permeability in patients with irritable bowel syndrome assessed using a four probe permeability solution. *Clinica Chimica Acta*, 2013, 14-JAN-2013 DOI: 10.1016/j.cca.2012.12.032. [DB] [CA]
51. **Henderson WA**, Shankar R, Taylor TJ, Del Valle-Pinero A, Kleiner DE, Kim KH & Youssef NN. Inverse relationship of interleukin-6 and mast cells in children with inflammatory and non-inflammatory abdominal pain phenotypes. *World Journal of Gastrointestinal Pathophysiology*, 2012,15-DEC-2012 DOI: 10.4291/wjgp.v3.i6.102. PMC3602438. [DB] [CA]
52. **Henderson WA**, Martino AC, Kitamura N, Kim KH, Erlen JA. Symptom Status Predicts Patient Outcomes in Persons with HIV and Comorbid Liver Disease. *AIDS Research and Treatment*, 2012, 169645. 11 pages DOI:10.1155/2012/169645. [DB] [CA]
53. Peterson VL, Martino AC, Del Valle- Pinero AY, Patel NS, Zhao X, **Henderson WA**. Weight Phenotype Diagnostic Test Method: Body Mass Index or Body Fat Percent for Gene Expression. *The Open Obesity Journal*, 2012, 4, 18-22. DOI: 10.2174/1876823701204010018. [DB] [CA]
54. Peace RM, Majors BL, Patel NS, Wang D, Del Valle-Pinero AY, Martino AC, **Henderson WA**. Stress and Gene Expression of Individuals with Chronic Abdominal Pain. *Biological Research For Nursing*, 2012; 14 (4) 405-411. DOI: 10.1177/1099800412458350. [DB] [CA]
55. **Henderson WA**, Thomas DA, Cantor FK, Hunter CM. News from NIH: Pain Management. *Translational Behavioral Medicine*, 2012; 25-JAN DOI: 10.1007/s13142-012-0116-9.
56. Del Valle-Pinero AY, Martino AC, Taylor TJ, Majors BL, Patel NS, Heitkemper MM, **Henderson WA**. Pro-Inflammatory Chemokine C-C Motif Ligand 16 (CCL-16) Dysregulation in Irritable Bowel Syndrome (IBS): A Pilot Study. *Neurogastroenterology and Motility*, 2011; 23(12) 1092-7. [DB] [CA]
57. Taylor TJ, Youssef NN, Shankar R, Kleiner DE, & **Henderson WA**. The Association of Mast Cells and Serotonin in Children with Chronic Abdominal Pain of Unknown Origin. *Biomed Central Gastroenterology, Research Notes*, 2010; 21-OCT; 3(1):265. [DB] [CA]
58. **Henderson WA** & Hadigan CM. In Reply: Liver Histology Damage in Children with Chronic Hepatitis C. *Pediatric Infectious Disease Journal*, 2010; 29 (2) 190.

59. **Henderson WA**, Schlenk EA, Kim KH, Hadigan CM, Martino AC, Sereika SM, & Erlen JA. Validation of the MOS-HIV as a Measure of Health-Related Quality of Life in Persons Living with HIV and Liver Disease. *AIDS Care*, 2010; 05 Feb.: 1-8. [DB] [CA]
60. **Henderson WA**, Shankar R, Gill JM, Kim KH, Ghany MG, Skanderson M, & Butt AA. Hepatitis C Progressing to Hepatocellular Carcinoma: The HCV Dialysis Patient in Dilemma. *Journal of Viral Hepatitis*, 2010; 17: 59-64. [DB] [CA]
61. **Henderson WA**, Shankar R, Feld JJ, & Hadigan CM. Symptomatic and Pathophysiologic Predictors of Hepatitis C Virus Progression in Pediatric Patients. *The Pediatric Infectious Disease Journal*, 2009; 28 (8): 724-27. [DB] [CA]
62. Gill J, Saligan LN, **Henderson WA**, & Szanton S. PTSD: Know the warning signs. *The Nurse Practitioner*, 2009; 34 (7): 30-37.
63. Sabri M, Di Lorenzo C, **Henderson WA**, Thompson, W, Barksdale, E, & Khan S. Colon Cleansing with Oral Sodium Phosphate in Adolescents: Dose, Efficacy, Acceptability and Safety. *American Journal of Gastroenterology*, 2008; 103: 1-7. [DB]
64. **Henderson WA**, Fall-Dickson JM, Schlenk EA, Kim KH, Matthews JT, & Erlen JA. Effects of Liver Disease on the Well-being of Persons Living with HIV. *Journal of the Association of Nurses in AIDS care*, 2008; 19(5): 368-74. [DB] [CA]
65. Youssef NN, Peters JM, **Henderson W**, Shultz-Peters S, Lockhart DK, & Di Lorenzo C. Dose response of Peg 3350 for the treatment of childhood fecal impaction. *Journal of Pediatrics*, 2002; 141(3): 410-4. [DB]
66. Khan S & **Henderson WA**. Treatment of Eosinophilic Esophagitis in Children. *Current Treatment Options in Gastroenterology*, 2002; 1 Oct 5 (5) 367-76.

Manuscripts under review/revision

67. Barandouzi ZA, Starkweather AR, **Henderson WA**, Gymafi A, Cong XS. Altered Composition of Gut Microbiota in Depression: A Review. *Frontiers in Psychiatry*, Invited-under review, February 18, 2020.
68. Butler KR, Harrell FR, Robinson JM, Rahim-Williams B, Zhang X, Gyamfi A, Erlen JA, **Henderson WA**. Symptoms and comorbidities differ based on Race and Weight status in individuals living with HIV and AIDS. *AIDS Care*, Under review, February 13, 2020. [DB] [CA]
69. Gonzalez-Mercado VJ, **Henderson WA**, Sakar A, Berk L, Sola C, McMillan S, Groer M, Kane B, Marrero S, Sephiri F, Pérez-Santiago J. Changes in Gut Microbiome Associated with Co-Occurring Symptoms Development during Chemo-radiation for Rectal Cancer; a Proof of Concept Study. *Biological Research For Nursing*, May 4, 2020 (In resubmission). [DB]
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71. Diallo AF, Walsh S, **Henderson WA**, Cong X, McGrath J. Impact of breastfeeding duration before 6 months on the reported incidence of diarrhea in infants between the ages of 7 to 12 months: A United States birth cohort study. *Maternal and Child Nutrition*. Under revision 2019. [DB]
72. Zhao W, Xu W, Chen J, **Henderson WA**, Cong X. The Association between Fecal Calprotectin and Neurobehavioral Outcomes of Preterm Infants in the NICU. *JPGN*, 2019, in revision. [DB]
73. Gonzalez-Mercado VJ, Saligan LN, **Henderson WA**, Solá-Morlá C, Berk L, McMillan S, Osorio S, Sepehri F, Marrero S & Pérez-Santiago J. Gut microbiota composition associated with depression during neoadjuvant chemotherapy and radiation therapy for rectal cancer; A Proof of Concept, 2020, under revision. [DB]

Manuscripts Under Development

74. Kurnat-Thoma E, Fu MR, **Henderson WA**, Voss JG, Hammer MJ, Williams J, Calzone K, Conley YP, Starkweather A, Cashion AK, Weaver MT, Shiao SP, Coleman B. U.S. Genomic Nursing Healthcare Policy—Current Status and Future Directions. For submission to *Nursing Outlook*, 2020.

Published works: (patents/book/chapters)

75. **Henderson WA** & Rahim-Williams B. *Genomics of Visceral Pain*, Chapter in Dorsey & Starkweather, *Genomics of Pain and Co-morbid Symptoms*, Springer Journal in editorial review. 2020.
76. Kim CH, **Henderson WA**, Abey SK, Fourie NH, Ferguson EG. Point of need testing device and methods of use thereof. 2018, US Patent App. 15/574,750
77. Heitkemper MM & **Henderson WA**. Gastrointestinal Symptom Science and Assessment. *Using Nursing Research to Shape Health Policy*, Editors Grady PA and Hinshaw AS, Springer Publishing Co., LLC, New York, 2017.
78. **Henderson WA**, Peace RM, Fourie NH, Abey SK. Detection and treatment of irritable bowel syndrome. 2017, US Patent 9,683,263.
79. **Henderson WA**. Testing a Model of Health-related Quality of Life in Persons with HIV and Liver Disease. University of Pittsburgh, Pittsburgh, Pennsylvania 2007.
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Published works: (abstracts)

1. Robinson J, Gong J, Liang Y, Ren X, Turkington S, Youssef NN, Beechem J, **Henderson WA**. A Novel Quantitative Protein Expression Profile for X-Linked Severe Combined Immunodeficiency Disease (X-SCID) Ffpe Samples Using Nanostring Digital Spatial Profiling. *Gastroenterology*, 2019, 156 (6), S-656-S-657. [DB] [CA]
2. Turkington S, Butler K, Robinson J, **Henderson WA**. Identifying Functional Pathway Associations Between Gene Expression Profiles, Cytoskeletal Morphology, and Barrier Function in Epithelial Cell Lines. *Gastroenterology*, 2019, 156 (6), S-963-S-964. [DB] [CA]

3. Weaver K, C Boulineaux, S Pocock, K Butler, M Heitkemper, **Henderson W**. The Hypothalamic-Pituitary-Ovarian Axis in Patients with IBS: A Pilot Study. *Nursing Research*, 2019, 68 (2), E52-E53. [DB] [CA]
4. Diallo AF, Fourie NH, Joseph PV, Sherwin LA, Walter EA, Boulineaux CM, Weaver KR, Harrell FR, Zhang X, Walter PJ, **Henderson WA**. Individual Differences in Intestinal Permeability: Utility of High Resolution Liquid Chromatography-Mass Spectrometry (LC-MS). *Gastroenterology*, 2018, 154(6), S-553. [DB] [CA]
5. Weaver K, Melkus G, Fletcher J, **Henderson W**. TRPV1 Differential Expression in Females with IBS: A Pilot Study. *Nursing Research*, 2018, 67(2), E23-E23. [DB] [CA]
6. Xu W, Maas K, Hussain N, McGrath J, **Henderson W**, X Cong. Stress and Gut Inflammatory Responses in Modulating Neurodevelopmental Outcomes in Preterm Infants. *Nursing Research* 2018, 67(2), E92-E93. [DB]
7. Fourie NH, Abey SK, Ferguson E, Kenea N, Diallo AF, Kim CH, **Henderson WA**. Direct Nucleic Acid Detection of Diarrheal Pathogens in Stool Using an Antibody-Free Lateral Flow Assay. *Gastroenterology*, 2017, 152 (5), s817. [DB] [CA]
8. Robinson J, Fourie NH, Boulineaux CM, Abey SK, Sherwin LB, Weaver KR, Joseph PV, Ozoji O, Prescott SM, Rahim-Williams B, Peace RM, **Henderson WA**. Hematological, IL-10, and Microrna Perturbations in Irritable Bowel Syndrome (IBS). *Gastroenterology*, 2017, 152(5), s723-4. [DB] [CA]
9. Sherwin LB, Abey SK, Joseph PV, Fourie NH, **Henderson WA**. Lysozyme Mrna Down-Regulation is Associated with Microbial Translocation and Symptom Severity in Adults with Irritable Bowel Syndrome. *Gastroenterology*, 2017, 152(5), s914-5. [DB] [CA]
10. Joseph PV, Abey S, Fourie N, Kenea N, Wang D, Vishnyakova T, Weaver HK, Boulineaux C, Sherwin LAB, Robinson J, Patterson A, **Henderson WA**. Epithelial Cell Junction miRNA Network in Metabolic Syndrome and Hepatic Steatosis. *Hepatology*, 2017, 66, 459A-459A. [DB] [CA]
11. Weaver K, Eramo MGD, Fletcher J, **Henderson WA**. Serum proteomics in African American females with IBS: A pilot investigation. *Neurogastroenterology and Motility*, 2017, 29, 51-51. [DB] [CA]
12. Xu W, Cong X, McGrath J, **Henderson W**. The Impact of Cumulative Pain/Stress on Neurodevelopment of Preterm Infants in the NICU. *Nursing Research*, 2017, 66 (2), E26-E27. [DB] [CA]
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15. Weaver K, Melkus G, Fletcher J, **Henderson W**. Stress Perceptions, Physiological Correlates and Quality of Life, in Patients with Irritable Bowel Syndrome. *Nursing Research*, 2017, 66(2), E10-E10. [DB]
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26. Fourie NF, Wang D, Creekmore AL, Hong S, Wiley JW, **Henderson WA**. Colonic Mucosa Microbiome and Host Gene Expression in a Rat Model of Experimentally Induced Visceral Hyperalgesia. *Gastroenterology*, 2015, 148 (4): s776-7. DOI:10.1016/S0016-5085(15)32648-2. (Awarded Poster of Distinction). [DB] [CA]
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28. Hardy T, McCarthy DO, Fourie N, **Henderson W**. The relationship of anti-Mullerian hormone levels and urine cortisol in women with chronic abdominal pain. *Psychoneuroendocrinology*. [DB] [CA]
29. Fourie NF, Wang D, Abey S, Ferguson E, Sherwin L, Rahim-Williams B, **Henderson WA**. Experimentally Induced Visceral Pain, Variation in the Microbiome, and Host Gene Expression in Irritable Bowel Syndrome. *Gastroenterology*, 2015, 148(4):s777. DOI: 10.1016/S0016-5085(15)32649-4. [DB] [CA]

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34. Fourie NH, Peace RM, Longchamps RJ, Martino AC, Majors B, **Henderson WA**. Elevated miRNA150 and miRNA342-3p in Patients with Irritable Bowel Syndrome. *Gastroenterology*, 2013, 144 (5), s723. [DB] [CA]
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41. Del Valle-Pinero AY, Majors BL, Martino AC, Patel NS, **Henderson, WA**. Gene Expression of Inflammatory Biomarkers in IBS Differs in Male and Female Patients. 494.14/SS18. 2011 Neuroscience Meeting Planner. Washington DC: Society for Neuroscience, 2011. Online. [DB] [CA]
42. Martino AC, Patel NS, Del Valle-Pinero AY, **Henderson WA**. Genetic Expression of Inflammatory Markers in Patients with Fatty Liver. *Gastroenterology*, 2011, Volume 140 (5), s704. [DB] [CA]

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48. Martino AC, **Henderson WA**, Rivera E, Liang TJ, Hoofnagle JH, & Ghany MG. Patient-Related Symptoms in Individuals with Chronic Hepatitis B Virus Treated with Lamivudine and Adefovir or Adefovir Monotherapy. *Hepatology* 2009, Volume 50 (4) 528-529A. [DB]
49. **Henderson WA**, Shankar R, Taylor TJ, Gill JM, Kleiner D, & Youssef NN. Immunohistological Differences of Pediatric GI Mucosa in Patients with and without Inflammation Presenting with Chronic Abdominal Pain. The Quest for Biomarkers. *Gastroenterology* 2009; 136 (5) A633. [DB] [CA]
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55. Khan S, **Henderson WA**, Sabri M, Cheung O, Wald A, & Di Lorenzo C. Gastric sensorimotor parameters in children with non-ulcer dyspepsia are comparable to children with organic dyspepsia. *Journal of Pediatric Gastroenterology and Nutrition* 2004;39, s439. [DB]

56. Khan S, **Henderson WA**, Sabri M, Cheung O, Wald A, & Di Lorenzo C. Gastric sensorimotor parameters in children with non-ulcer dyspepsia are comparable to children with organic dyspepsia. *Gastroenterology* 2004;126:A-43. [DB]
57. Sabri MT, Di Lorenzo C, **Henderson WA**, & Khan S. Dose, efficacy and acceptability of oral sodium phosphate solution for bowel preparation: a randomized single blinded study. *Journal of Pediatric Gastroenterology and Nutrition* 2004;39:s357. [DB]
58. Khan S, Sabri M, **Henderson WA**, Cheung O, Wald A, & Di Lorenzo C. Gastric Sensorimotor parameters in children with non-ulcer dyspepsia (NUD). *Journal of Pediatric Gastroenterology and Nutrition* 2003; 37:351. [DB]
59. **Henderson WA**, Khan S, & O'Brien C. Failure to thrive: A rare case of isolated lipase deficiency. *American Journal of Gastroenterology* 2002;97: s212-13.
60. Khan S, **Henderson WA**, Goyal A, Kocoshis SA, & Di Lorenzo C. Infliximab use in pediatric Crohn's disease: A longitudinal review. *Journal of Pediatric Gastroenterology and Nutrition* 2001;33:53. [DB]
61. Khan S, **Henderson WA**, Kocoshis SA, Goyal A, & Di Lorenzo C. The use of infliximab in pediatric Crohn's disease. *Gastroenterology* 2001;120: A210. [DB]

PATENTS

1. Xiang L, Kim CH, **Henderson WA**. (provisional filed 3/20/2018) Methods of Detecting Nucleic Acids Using Three-dimensional Paper Microfluidic Devices. US 62/645,449
2. Xiang L, Kim CH, **Henderson WA**. (filed 12/2017). Rapid nucleic acids separation/sample preparation via hollow-centered silica microsphere. US 62/593,59. Non-provisional submission December 1, 2018.
3. Kim CH, **Henderson WA**, Fourie NH, Abey SK, Ferguson EG (filed 2015) Multiplex Detection of Nucleic Acids from Multiple Species on Paper. US 62/162,668
4. **Henderson WA**, Abey S, Fourie NH, Peace RM (filed 2013) Altered Expressions Of Micro Ribonucleic Acid (mirna) And Messenger Rna Species For Phenotype Identification And Therapy In Digestive And Liver Disorders. Tracking number: E-349-2013/0-US-01, US provisional application/ US61825489, Signatures of Genetic Control in Digestive and Liver Disorders.
5. **Henderson WA**, Abey S, Fourie NH, Peace RM (filed 2013) PCT/US14/38638, Detection and Treatment of Irritable Bowel Syndrome.

INVENTIONS

1. *Show-n-Tell: Computerized Assessment of Pain in Children*, Pediatric pain and distress electronic measure, co-inventor with industry prior to federal employment. Phase II extramurally complete.
2. *Gastrointestinal Pain Pointer (GIPP)*, PHS Employee Invention Report #E-175-2010, Materials Transfer Agreement with Psychology Software Tools, Inc. with NINR, executed April 2010. Patent

opinion rendered plan with PST, Inc. for licensing agreement. Phase I complete validated NIH Clinical Center. Phase II cohort validation completed 2015.

CLINICAL TRIAL-COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT/LICENSE

1. Development of a Point-of-Use Pathogen Identification Tool and Biomarker Identification in Gastrointestinal and Diarrheal Disorders, Henderson/ NINR with GoDx, Inc., NR-CTCR-13-001 fully executed May 2013, ended October 2019.
2. CrossLife Technologies, 2014, Commercial Evaluation License to PCT phase (PCT/US14/38638)

TEACHING

2000-2004

**University of Pittsburgh, School of Medicine
Pittsburgh, PA**

Department of Pediatrics
Division of Gastroenterology, Hepatology & Nutrition
Primary Care of Common GI Problems- 3rd year medical students

**Duquesne University School of Nursing
Pittsburgh, PA**

2005-2007

Graduate Level
Research Practicum
Research Methods
Advanced Pathophysiology
Health Assessment for Advanced Practice

Undergraduate Level
Research Process
Health and Wellness
Pathophysiology- 2nd degree program
Health Assessment
Senior Concepts- ethical and legal issues

2007-2018

Faculty for NINR Boot Camp or Summer Genetics Institute (NINR/NIH)- alternating years

2010-2019

Founder and Director, Postdoctoral Fellowship Training Program
Biobehavioral Unit, NINR, NIH, DHHS
Bethesda, MD

2018-2019

**Foundation for Advanced Education in the Sciences
Bethesda, MD**
National Institutes of Health Foundation
Immunology and the Microbiome- developed and taught graduate course

2019-2020

**University of Connecticut, School of Nursing
Storrs, CT**

NURS 5811: Masters/Advances Practice Genomics Course-Lecturer: Application of Genetics to Healthcare, Pharmacogenomics

2020

NURS 3295: First year undergraduate- Lecturer: Special Topics in Nursing: Introduction to the discipline of nursing

NURS 4265: Fourth year- Lecturer: Nursing's Past is Prologue

Postdoctoral Fellow Mentees, NIH Postdoctoral Intramural Awards

Dr. Ravi Shankar
Dr. Arsemia del Valle Pinero
Dr. R. Michael Peace
Dr. Nicolaas H. Fourie
Dr. Sarah K. Abey
Dr. LeeAnne Sherwin
Dr. Bridgett Rahim-Williams
Dr. Paule V. Joseph
Dr. Jeffrey M. Robinson
Dr. Ana F. Diallo
Dr. Lichen Xiang
Dr. Emma Kurnat-Thoma

PhD Mentees- Predoctoral Students

Dr. Kristen R. Weaver, New York University, NIH Graduate Partnership Award
Dr. Stephanie Prescott, University of Virginia, NIH Graduate Partnership Award
Dr. Ana F. Diallo, University of Connecticut
Dr. Wanli Xu, University of Connecticut
Zahra Amirkhazadeh Barandouzi, University of Connecticut
Faye Harrell, The Catholic University of America

Postbaccalaureate Mentees, NIH Intramural Training Awardees

Tara Taylor
Ben Majors
Dr. Nayan Patel
Dr. Paul Smyser
Eric Ferguson
Ryan Longchamps
Natnael Kenea
Onyi Ozoji
Christina Boulineux
Kierra Butler
Simon Turkington

Summer Internship Students

Dr. Sarah K. Abey
V. Lynn Peterson
Onyi Ozoji
Hannah Davidson

Sabbatical Faculty in Residence

Dr. Mary Regan, Associate Professor, University of Maryland, School of Nursing

SERVICE

University of Connecticut

- Affiliate Member-Center for Advancement in Managing Pain (2020-present)
- Curriculum Committee, School of Nursing (2019-present)
- Diversity Committee, School of Nursing (2019-present)
- Athena Research Day Committee (2019-present)
- Advisory Board, Biobehavioral Laboratory (2019-present)

National Institutes of Health

- 2017-SIG Co-Founder and Chair- Psychoneuroendocrinology Special Interest Group
- 2012-2019 Earl Stadtman Search Committee, Social and Behavioral Sciences- Co-Chair 2017, 2018
- 2012-2019 NIH Women Scientist Advisors
- 2011-2015 Intramural Program of Research on Women's Health Steering Committee
- 2011-2014 Clinical Research Data Management System NIH Workgroup
- 2010-2019 Pediatric Formulations Initiative
- 2009-2012 NIH Biomedical Translational Research Information System, PI User group
- 2009-2015 Nurse Practitioner Group, Credentialing Committee
- 2008-2019 Best Pharmaceuticals for Children Act, NIH Liaison for NINR
- 2008-2015 Translational Research Interest Group
- 2008-2019 Undiagnosed Disease Program- Peds GI clinical consultant

American Gastroenterology Association

- Equity Project Task Force 2020-
- Councilor Neurogastroenterology Section- 2017-2019
- Future Leaders 2019-2020 cohort awardee- First Nurse Awarded

American Association for the Study of Liver Disease

- 2019-2021 Vice-Chair, Research Committee
- 2014- present -Nominated to Research Committee
- Member 2009

American Academy of Nursing

- Inducted Fellow- 2016
- Genetics/Genomics Expert Panel -2016-present, 2017-2020 Co-Chair

The Rockefeller University- Board Member

Heilbrunn Family Center for Research Nursing, Extramural Research Nursing Advisory Committee
2018-present

Eastern Nursing Research Society

- Biobehavioral Research Interest Group 2010-present
- Membership Committee

International Society for Nurses in Genetics

- Member/Research Committee Co-chair (2016-18) 2012-present

Duquesne University- School of Nursing

- Faculty Senate- elected representative 2006-2007
- Library Committee- alternate 2006-2007
- Faculty Development committee 2005-2007
- Masters Level committee 2006-2007
- Freshman level coordinator/lead 2006-2007

Sigma Theta Tau, Epsilon Phi

- Board member, Recording Secretary 2006-2008
- Research committee 2006-2007

Editor Guest Editor: Biologic Research in Nursing, Genetics/ Genomics Issue (2017-2018)

Reviewer Gut Microbes
 Biological Research in Nursing
 Journal for the Association of Nurses in AIDS care
 Nursing Research
 AIDS Care

Media Links:

Modifying an At-Home Tool to Monitor COVID-19 Symptoms

<https://research.uconn.edu/covid-19-research-and-grants/>

Dr. Wendy Henderson Selected as Future Leader of the American Gastroenterological Association

<https://www.ninr.nih.gov/newsandinformation/newsandnotes/dr-wendy-henderson-future-leader-aga#:~:text=Wendy%20Henderson%20Selected%20as%20Future%20Leader%20of%20the%20American%20Gastroenterological%20Association,-April%205%2C%202019&text=Wendy%20A.,Dr.>

NIH Kudos- NINR's Henderson Honored with 'Shark Tank' Award July 2018

<http://ddir.nih.gov/Kudos.html>

NIH Catalyst: A Sampling of Intramural Pain Research; NINR Henderson Lab:

<https://irp.nih.gov/catalyst/v26i5/a-sampling-of-intramural-pain-research>

NCATS Story of Discovery August 2018: <https://ncats.nih.gov/pubs/features/sbir-godx>

American Gastroenterological Association, The New Gastroenterologist

<https://www.mdedge.com/gihepnews/article/171233/mixed-topics/cant-believe-we-won-aga-shark-tank-building-sustainable>

NIH Record- July 2018- NINR Nurse Scientist Co-Invention Honored with "Shark Tank" Award

https://nihrecord.nih.gov/newsletters/2018/07_13_2018/milestones.htm

NINR News & Notes feature May 11, 2018:

<https://www.ninr.nih.gov/newsandinformation/newsandnotes/henderson-shark-tank>

AGA Shark Tank May 2018- see American Gastroenterological Association website

NIH Women in Science

<https://www.edi.nih.gov/people/sep/women/wocis/themes/advice-and-encouragement03>

<https://www.edi.nih.gov/people/sep/women/wocis/themes/challenges04>

<https://www.edi.nih.gov/people/sep/women/wocis/themes/stories03>

National Native American Youth Initiative Summer 2018, posted November 13, 2018

<https://nimhd.nih.gov/news-events/features/training-workforce-dev/native-american-recruitment.html>

NINR Symptom Symposium April 25, 2017- Henderson enter 24 minutes 30 seconds.

<https://www.youtube.com/watch?v=DtvYGUHVwY>

NINR Council Meeting-September 2017—Henderson enter 8 minutes 14 second marker

https://www.youtube.com/watch?v=A_g4_kQzOQA

NIH Grand Rounds 2011- Henderson enter 30 minute

<https://videocast.nih.gov/Summary.asp?File=15798&bhcp=1>

GRANTS

1ZIANR000018

Henderson, W.A. (PI)

2009 – 2019

NIH/NINR

\$4,331,970

Symptom Distress Mechanisms in Digestive Disorders, Digestive Disorder Unit, Biobehavioral Branch, Division of Intramural Research, National Institute of Nursing Research, National Institutes of Health, Department of Health and Human Resources. Role: PI

1ZIANR000023

Henderson, W.A. (PI)

2012 – 2019

NIH/NINR

\$1,180,408

Testing Interventions for Gastrointestinal Dysfunction in a Murine Model, Digestive Disorder Unit, Biobehavioral Branch, Division of Intramural Research, National Institute of Nursing Research, National Institutes of Health, Department of Health and Human Resources. Role: PI

Note: IACUC #A094-12-04, *The Effect of Physical Activity on the Progression of established Colorectal Cancer in a Murine Model*, Institutional Animal Care & Use Committee, HHMI Mentee RM Peace, Collaborator Lee Jones, Duke University, approved April 26, 2012., External support to Henderson Lab, from Burroughs Wellcome Fund (\$50,000, included in above \$595,334) to support mentee RM Peace. Role: Collaborator

1R43TR001912-01A1

Kim/ Henderson (Co-PIs)

2018-2020

NIH/NCATS

\$1,090,000

SBIR: Rapid and Simple Paper Strip Test for the Multiplexed Detection of Gastrointestinal Pathogens at the Point-of-Need. Clinical CRADA collaboration with GoDX, Inc. Role: Co-PI Phase 2 and inventor of technology, awarded 08/01/2018, Co-I Phase 1 2017-2018.

5 R01 NR016928 01A1

Cong, X.S. (PI)

2017-2021

NIH/NINR

\$657,200

Multi-Omics Analysis of Pain/Stress Impact on Neurodevelopment in Preterm Infants, University of Connecticut, School of Nursing, Role: Co-investigator

1 R01 HL123351 01

Lo, J. (PI)

2014-2019

NIH/NHLBI

\$4,050,000

Targeting GI Epithelial Integrity to Improve Arterial Inflammation in HIV. Massachusetts General Hospital, Harvard University. Randomized controlled drug trial aimed to regenerate the GI epithelium to decrease microbial translocation and ultimately arterial inflammation. Role: Collaborator.

1 U01 AI 115711 02

Grinspoon /Hadigan (co-PIs)

2014-2017

NIH/NIAID

\$1,272,924

Tesamorelin Effects on Liver Fat and Histology in HIV: A Collaborative U01 Grant, Massachusetts General Hospital. My role is collaborator and site Associate Investigator to quantify liver fibrosis via Fibroscan.

- NIH CC Bench to Bedside Hadigan (PI) 2014-2016
\$270,000
Cardiometabolic Effects of Eplerenone in HIV Infection, collaboration with NIAID (Hadigan), NIH Clinical Center (Bluemke, Liu, and Morse), NINR (Henderson), and Massachusetts General Hospital (Grinspoon and Stanley). Funded through the Office of AIDS Research. My role is a Co-investigator.
- 1R43NR010663-01A1 Zuccolotto, A. (PI) 2009-2010
SBIR
NIH/NINR
Show-n-Tell: Computerized Assessment of Pain in Children, SBIR, Psychology Software Tools, INC.,
Role: Co-I and inventor of technology prior to federal employment
- 1 RC2 NR011959-01/02 Heitkemper, M.M. (PI) 2009-2011
NIH/NINR
Abdominal Symptom Phenotypes: Pathways to New Biomarkers. University of Washington, School of Nursing. Role: Significant Contributor
- Rockefeller University Joseph, P.V. (PI) 2016-2017
Heilbrunn Family Nurse Scholar Award \$25,000
Personalized predictive models of brain-gut interactions of factors underlying human eating behavior, insulin dysregulation and obesity. NINR, Role Primary Mentor.
- Rockefeller University Weaver, K.R. (PI) 2016-2017
Heilbrunn Nurse Scholar Award \$25,000
An exploratory investigation of sex hormones, leptin and BDNF in modulating the brain-gut axis of patients with IBS. NINR, Role Primary Mentor.
- 1 R43 TR001912-01A1 Kim, C.H. (PI) 2017-2018
NIH/NCATS \$299,726
Rapid and Simple Paper Strip Test for the Multiplexed Detection of Gastrointestinal Pathogens at the Point-of-Need. Role: Co-I, CRADA Collaborator and Co-Inventor of technology. Phase I SBIR.
- 5 K23 NR014674 03 Cong, X.S. (PI) 2013-2016
NIH/NINR \$396,363
Early Life Experience Imprints Gut Microbiome in Preterm Infants, University of Connecticut, School of Nursing, Role: Co-Sponsor/ Collaborator

INTERNAL UNIVERSITY OF CONNECTICUT

1. Experiential Entrepreneurship Research Experience for Undergraduates. (E2REU) Project PIs. Kinsey S & Henderson WA. No free lunch: Does cannabis disrupt gut function?, PI Bozorgmanesh H & Burkey D, UConn School of Engineering.
2. Principal Investigator, Stool Tool. Clinical Protocol. Funded by UConn School of Nursing, Dean's Discretionary funds. Graduate Student Summer Support.

COMPLETED RESEARCH

1. Principal Investigator, *Quality of life in persons with HIV and Liver Disease*. Analysis of data from NIH R01 NR04749, PI: Judith Erlen, PhD. Funded by Sigma Theta Tau International, Epsilon Phi Research Award, 2006-2007; Association of Nurses in AIDS care/Sigma Theta Tau International 2006-2007, and funded by Clinical and Translational Science Fellowship at the University of Pittsburgh, School of Medicine (1TL1 RR024155-01).
2. Co-investigator, *Oral Sodium Phosphate Solution: Dose, Efficacy and acceptability for bowel preparation in children and adolescents*; NIH M01 RR00084 and C.B. Fleet Company, Inc., 2002-2005, \$89,275, PI: M. Sabri MD.
3. Co-investigator, *Evaluation of Gastric Sensory and Motor Parameters Using Barostat Techniques in Children with Non-ulcer Dyspepsia (NUD)*. 19520- GT501 Research Advisory Committee “Faculty Start-Up” funds- Children’s Hospital of Pittsburgh 2001-2004 (\$50,000), 2004-2005 (\$30,000), PI: S. Khan MD.

RECENTLY FUNDED GRANT

Funded July 2019

Title: A Rapid and Highly Sensitive, Point-of- Care, Simple Paper-Based Neonatal Sepsis Test, SBIR Phase 1, Henderson (Intramural PI). Award not transferred to extramural position.

Research Presentations (Selected/Limited)

1. Weaver KR, Melkus G, Fletcher J, **Henderson WA**. TRPV1 Differential Expression in females with IBS: A Pilot Study. ENRS, 30th Annual ENRS Scientific Sessions, Newark, NJ. April 12, 2018.
2. Fourie NH, Abey SK, Joseph PV, Walter PJ, Robinson JM, Kenea N, Leggio L, **Henderson WA**. Microbiome and Chronic Stress effects on the Brain-Gut Axis. Microbiome in Health & Disease, NIH Cytokine Interest Group Sponsored Symposium, December 2015, NIH, Bethesda, MD.
3. Hardy TM, Fourie NH, McCarthy DL, **Henderson WA**. The relationship of anti-Mullerian Hormone levels and urine cortisol in women with chronic abdominal pain. 45th Annual International Institute for Psychoneuroendocrinology Conference, Stress and the Brain: from Fertility to Senility, September 2015, Edinburgh, Scotland.
4. Fourie NF, Wang D, Creekmore AL, Hong S, Wiley JW, **Henderson WA**. Colonic Mucosa Microbiome and Host Gene Expression in a Rat Model of Experimentally Induced Visceral Hyperalgesia. Digestive Diseases Week, May 2015, Washington DC. (Awarded Poster of Distinction).
5. Fourie NF, Wang D, Abey S, Ferguson E, Sherwin L, Rahim-Williams B, **Henderson WA**. Experimentally Induced Visceral Pain, Variation in the Microbiome, and Host Gene Expression in Irritable Bowel Syndrome. Digestive Diseases Week, May 2015, Washington DC.
6. Abey SK, Fourie NF, Smyser PS, Sherwin LB, **Henderson WA**. Altered Levels Of Epithelial Tight Junction Indicators And Regulators In Non-alcoholic Fatty Liver Disease Patients. ISONG World Congress on Nursing and Genomics, November 2014, Scottsdale, AZ.

7. Cong, X, **Henderson WA**, McGrath JM. Brain-Gut-Microbiota Axis in Regulation of Early Life Experience and Advanced Technologies of Microbiome Genomic Sequencing, ISONG World Congress on Nursing and Genomics, November 2014, Scottsdale, AZ.
8. Rahim-Williams B, Erlen JA, Kim KH, Sherwin LB, Fourie NH, **Henderson WA**. Health Disparities and Gastrointestinal Symptoms in Individuals Living with the Human Immunodeficiency Virus (LWHIV). 2014 NIH Research Festival, NIH, September 2014, Bethesda, MD.
9. Fourie NH, Wang D, Smyser PA, Abey SK, Sherwin LB, Rahim-Williams B, **Henderson WA**. Differences in the Oral Mucosa-Adherent Microbiome in Persons with Irritable Bowel Syndrome and Healthy Controls. 2014 NIH Research Festival, NIH, September 2014, Bethesda, MD.
10. Abey SK, Fourie NF, Smyser PS, Sherwin LB, **Henderson WA**. Altered Epithelial Tight Junction Indicators in Non-alcoholic Fatty Liver Disease. 2014 NIH Research Festival Poster Session, September 2014, Bethesda, MD.
11. Sherwin LB, Fourie NH, Abey SK, Rahim-Williams B, Smyser PA, Wu X, Sun D, **Henderson WA**. Lysozyme, Microbial Translocation and Symptom Severity in Irritable Bowel Syndrome. 2014 NIH Research Festival Poster Session, September 2014 Bethesda, MD.
12. **Henderson WA**, Peace RM, Rahim-Williams, Fourie NH, Sherwin LB, Abey SK. Symposium with Cashion AC, Gill J, Saligan L. Specific Genomic/Proteomic Signatures in Patients with Complex Gastrointestinal Symptom Phenotypes, 2014 State of the Science Congress on Nursing Research, September 2014, Washington, D.C.
13. Fourie NF, Wang D, Smyser PA, Abey SK, Sherwin LB, Rahim-Williams B, **Henderson WA**. Microbiome, Differences in the Oral Mucosa-Adherent Microbiome in Persons with Irritable Bowel Syndrome and Healthy Controls. 2014 State of the Science Congress on Nursing Research, September 2014, Washington, D.C.
14. Joseph PV, Fourie NH, Abey SK, Reddy SK, Wang D, Smyser PA, Rahim-Williams B, Reed DR, **Henderson WA**. Gene Expression and Human Eating Behavior Profile, 2014 State of the Science Congress on Nursing Research, September 2014, Washington, D.C.
15. Fourie NH, Heitkemper MM, Sherwin LB, Abey SK, Weaver KR, **Henderson WA**. Hypothalamic-pituitary-adrenal (HPA) axis dysfunction in patients with Irritable Bowel Syndrome (IBS), 2014 State of the Science Congress on Nursing Research, September 2014, Washington, D.C.
16. Joseph PV, Fourie NH, Abey SK, Reddy SK, Wang D, Smyser PA, Martino AC, Rahim-Williams B, Reed DR, **Henderson WA**. Obesity Gene Expression Profile, Human Eating Behavior (HEB) and Clinical Outcomes. 2014 State of the Science Congress on Nursing Research, September 2014, Washington, D.C. Invited presentation of regional posters.
17. Abey SK, Smyser P, Fourie NF, Longchamps RJ, and **Henderson WA**. Elevated Lipopolysaccharide Binding Proteins and Dysregulation of mRNAs and microRNAs Associated with Immune and Inflammatory Response to Endotoxin in Non-alcoholic Fatty Liver Disease. NINR Council September 2014, Bethesda, MD.
18. Rahim-Williams B, Abey SK, Fourie NH, Joseph PV, Smyser PA, Sherwin LB, **Henderson WA**. Effect of Interleukin-10 (IL-10) and Weight on Intestinal Permeability Test Solution Response. Pain Consortium 2014, The 9th Annual NIH Pain Consortium Symposium on Advances in Pain Research. May 2014 Invited Poster, Invited. NIH, Bethesda, MD.

19. Rahim-Williams B, Kim KH, Abey SK, Fourie NH, Joseph PV, Smyser PA, **Henderson WA**. The Weight of Pain and Health Disparities Among Individuals with Gastrointestinal Symptom Disorders, Network for Minority Investigators, 12th Annual Workshop, April 2014. NIH, Bethesda, MD.
20. Joseph PV, Fourie NH, Abey SK, Reddy SK, Wang D, Smyser PA, Martino AC, Rahim-Williams B, Reed DR, **Henderson WA**. Obesity Gene Expression Profile, Human Eating Behavior (HEB) and Clinical Outcomes. Eastern Nursing Research Society, April 2014, Philadelphia, Pennsylvania.
21. Smyser PA, Abey SA, Fourie NF, Sherwin LS, Rahim-Williams B, Schetter AJ, **Henderson WA**. Profiling Hepatocellular Carcinoma with microRNA Expression. Postbacc Poster Day. NIH, May 2014, Bethesda, Maryland.
22. Fourie NH, Wang D, Smyser PA, Abey S, Sherwin L, Rahim-Williams B, **Henderson WA**. Dysbiosis of the Mucosa-Adherent Microbiome in Patients with Irritable Bowel Syndrome. Digestive Diseases Week, May 2014, Chicago, Illinois.
23. Smyser PA, Abey SA, Fourie NF, Sherwin LS, Rahim-Williams B, Schetter AJ, **Henderson WA**. Differential MicroRNA expression in Hepatocellular Carcinoma and Non-tumor Adjacent Tissue. Translational Science Meeting 2014, April 2014, Washington, D.C.
24. Rahim-Williams B, Erlen JA, Kim KH, Henderson WA. Predictors of Functional Health Status among Women Living with HIV. NIH Research Festival, October 2013, Bethesda, MD.
25. Fourie NH, Peace RM, Abey SK, Sherwin LB, Rahim-William B, Smyser PA, Wiley JW, **Henderson WA**. Elevated Circulating miRNA150 and miRNA342-3p in Patients with Irritable Bowel Syndrome. NIH Research Festival, October 2013, Bethesda, MD.
26. Abey SK, Martino AM, Del Valle Pinero A, **Henderson WA**. Nitric oxide synthase gene expression in patients with Non-alcoholic Fatty Liver evidence. NIH Research Festival, October 2013, Bethesda, MD.
27. Joseph PV, Fourie NH, Abey SA, Reddy SK, Wang D, Smyser PA, Martino AC, Rahim-Williams B, Reed DR, **Henderson WA**. Obesity Genetic Risk, Human Eating Behavior (HEB) and Clinical Outcomes. Summer Student Research Festival. NIH, August 2013, Bethesda, MD.
28. **Henderson WA**, Rasmussen N, Berger R, Wang X, Martino AC, Reddy S, Longchamps R, Fourie N, Heitkemper MM. Sleep, Gene Expression and Chronic GI Symptoms. Clinical & Translational Science, April 2013, Washington D.C.
29. Abey S, Longchamps RJ, Martino AC, Reddy S, **Henderson WA**. Nitric Oxide Synthase Gene Expression in Patients with Nonalcoholic Fatty Liver Disease. Asian Pacific Association for the Study of the Liver, 2013, Singapore.
30. Fourie NH, Peace RM, Longchamps RJ, Martino AC, Majors B, **Henderson WA**. Elevated miRNA150 and miRNA342-3p in Patients with Irritable Bowel Syndrome. Digestive Diseases Week, 2013. May 2013, Orlando, FL. Awarded Poster of Distinction.
31. Hardy, TM, Fourie, NH, Martino AC, Kitamura N, Longchamps, RJ, Reddy S, **Henderson WA**. Effect of Chronic Pain, Stress, and Body Fat on Anti-Müllerian Hormone Levels in Females: A pilot study. Eastern Nursing Research Society, April 2013 Boston, MA. Oral Presentation.

32. Longchamps R, Abey S, Martino AC, Del Valle-Pinero A, Majors B, **Henderson WA**. SPRED, CD24, and MMP8 expression: Potential Markers for Fatty Liver Progression to Hepatocellular Carcinoma. The Liver Meeting, November 2012, Boston, MA.
33. **Henderson WA**. Charting Genetic Discovery: Nurse-Led Personalized Car Maps for the Future. International Society of Nurses in Genetics, Invited Keynote, , October 2012, Philadelphia, PA.
34. **Henderson WA**, Peace RM, Fourie N, Martino AC, Del Valle-Pinero AY, Majors BL, Wang D, Reddy S. Circulating miRNAs and interleukin-10 levels in patients with and without chronic abdominal pain. NIH Research Festival, October 2012, Bethesda, MD.
35. Martino AC, Heitkemper MM, Zuccolotto AP, **Henderson WA**. Biobehavioral Abdominal Discomfort Assessment. 2012 State of the Science Congress on Nursing Research, September 2012, Washington, D.C.
36. Chasens ER, **Henderson WA**, Redeker NS, and Ulrich C. Invited Symposium: Issues and Challenges Surrounding the Use of Control Groups in Biobehavioral Research. **Henderson WA**: Lessons learned from a Longitudinal Natural History Protocol, Eastern Nursing Research Society, March 2012, New Haven, CT.
37. **Henderson WA**, Abey S, Del Valle Pinero AY, Martino AC, Patel NS. Differential Gene Expression in Individuals with and without Fatty Liver. Eastern Nursing Research Society, March 2012, New Haven, Connecticut.
38. Martino AC, Heitkemper MM, Zuccolotto AP, **Henderson WA**. Abdominal Discomfort after Ingesting Intestinal Permeability Test Solution. 45th Annual Western Institute of Nursing, Communicating Nursing Research Conference, April 2012, Portland, Oregon.
39. Peace RM, Del Valle Pinero AY, Patel NS, Martino AC, Majors BL, Reddy S, **Henderson WA**. Circulating miRNAs in IBS. Translational Science 2012 Meeting, April 2012, Washington, DC. Won CTSA fellow poster award.
40. **Henderson WA**, Martino AC, Del Valle Pinero AY, Peace RM, Abey S. The Expression of miRNA-142-3p in Fatty Liver. Digestive Diseases Week, May 2012, San Diego, California.
41. Del Valle-Pinero AY, Majors BL, Martino AC, Anderson EM, Caudle RM, **Henderson, WA**. Altered Vasoactive Intestinal Peptide (VIP) Expression in Patients with Chronic Abdominal Pain (CAP). Digestive Diseases Week, May 2012, San Diego, CA.
42. Peace RM, Del Valle-Pinero AY, Landis RE, Martino AC, Patel NS, Majors BM, **Henderson, WA**. Correlation of Circulating MiRNAs and Interleukin-10 Levels in Patients with and without Chronic Abdominal Pain. Digestive Diseases Week, May 2012, San Diego, CA.
43. Martino AC, Heitkemper MM, Zuccolotto AP, **Henderson WA**. Biobehavioral Abdominal Discomfort Assessment. 2012 State of the Science Congress on Nursing Research, Washington, DC, September 2012.
44. Peace RM, Del Valle-Pinero AY, Martino AC, Majors BL, **Henderson WA**. Advancing Therapies for Chronic Abdominal Pain through Immuno-Genetic Mechanistic Biobehavioral Research. NIH Pain Consortium, May 2012.
45. Del Valle- Pinero AY, Majors BL, Martino AC, Patel NS, **Henderson WA**. Gene Expression of Inflammatory Biomarkers in IBS Differs in Male and Female Patients. Society for Neuroscience, November 14, 2011, Washington DC.
46. Del Valle- Pinero AY, Van Deventer H, Martino AC, Patel NS, Remaley A, **Henderson WA**. Intestinal Permeability in Patients with Digestive Disorders. 2011 NIH Research Festival, October 2011. Bethesda, MD.
47. Peace RM, Patel NS, Wang D, Majors BL, Martino AC, **Henderson WA**. Stress and Gene Expression in Chronic Abdominal Pain. 2011 NINR Symposium, October 2011. Bethesda, MD. Won NINR Award.

48. Martino AC, Patel NS, Del Valle-Pinero AY, **Henderson WA**. Expression of Inflammation Related Genes in Patients with Fatty Liver. 2011 NINR Symposium, October 2011. Bethesda, MD.
49. Peterson VL, Martino AC, Del Valle-Pinero AY, Patel NS, Chen K, **Henderson WA**. BMI or Body Fat Percentage for Gene Expression Analysis. 2011 NINR Symposium, October 2011. Bethesda, MD.
50. Del Valle-Pinero AY, Martino AC, Majors BL, Patel NS, Heitkemper M, **Henderson WA**. Gene Expression of Inflammatory Biomarkers Differs in IBS-Constipation and IBS-Diarrhea Patients. 2011 NINR Symposium, October 2011. Bethesda, MD.
51. Majors BL, Peace RM, Martino AC, Del Valle Pinero AY, **Henderson WA**. Gene Expression of Stress and Toxicity Markers in Patients with Fatigue. 2011 NINR Symposium, October 2011. Bethesda, MD.
52. Del Valle-Pinero AY, Van Deventer HE, Martino AC, Patel NS, Remaley AT, **Henderson WA**. Development of a Mass Spectrometry Protocol for Determination of Sugar Concentration in Urine of Patients with Chronic Abdominal Pain (CAP) after Ingestion of a Test Solution. 43rd IUPAC World Chemistry Congress, August 2011. San Juan, Puerto Rico.
53. Martino AC, Del Valle-Pinero AY, Zuccolotto AP, Heitkemper MM, Chen K, Kim KH, Berger A, **Henderson WA**. Abdominal Pain Symptom Measurement: The Gastrointestinal Pain Pointer. The NINR and NIH Clinical Center Joint Conference on Symptom Mechanisms, Measurement, and Management, May 2011, Bethesda, Maryland.
54. Martino AC, Patel NS, Del Valle-Pinero AY, **Henderson WA**. Genetic Expression of Inflammatory Markers in Patients with Fatty Liver. Digestive Diseases Week, May 2011, Chicago, Illinois.
55. Peace RM, Patel NS, Wang, D, Martino AC, Majors BL, **Henderson WA**. Stress and Genetic Mechanisms in Chronic Abdominal Pain. Digestive Diseases Week, May 2011. Chicago, Illinois.
56. Peace RM, Patel NS, Wang D, Majors BL, Martino AC, **Henderson WA**. Chronic Abdominal Pain and Stress affect Gene Expression. Collaborating with CTSA's to Advance Pain Research, April 2011. National Institutes of Health, Bethesda, Maryland.
57. Martino AC, Del Valle-Pinero AY, Shankar R, Chen K, Kim KH, Berger A, Zuccolotto AP, Heitkemper MM, **Henderson WA**. Gastrointestinal Pain Pointer (GIPP): A New Computerized Tool for the Assessment of Abdominal Pain. Pain Consortium 2011, April 2011, Bethesda, Maryland.
58. Del Valle-Pinero AY, Taylor TJ, Martino AC, Wang D, **Henderson WA**. Genetic Expression of Inflammatory Biomarkers in Irritable Bowel Syndrome (IBS). Society for Neuroscience, November 2010, San Diego, California.
59. Del Valle-Pinero AY, Martino AC, Wang D, **Henderson WA**. Inflammatory Biomarker Chemokine C-C Motif Ligand 16 (CCL-16) is Overexpressed in Irritable Bowel Syndrome (IBS) Patients. National Institutes of Health. 2010 NIH Research Festival, October 2010, Bethesda, Maryland.
60. Peterson VL, Del Valle-Pinero AY, Martino AM, Chen K, **Henderson WA**. Genetic Expression of Obesity Biomarkers in Patients with Low and high Percentage of Body Fat. National Institutes of Health, National Institute of Nursing Research. 25th Anniversary scientific symposium, *Bringing Science to Life*. September 2010, Bethesda, Maryland.

61. Martino AC, Ghany MG, Rivera E, Liang TJ, Hoofnagle J, **Henderson WA**. Symptoms in Patients with Chronic Hepatitis B Treated with Nucleos(t)ide Analogue Therapy. National Institutes of Health, National Institute of Nursing Research. 25th Anniversary scientific symposium, *Bringing Science to Life*. September 2010, Bethesda, Maryland.
62. Del Valle-Pinero AY, Martino AC, Wang D, **Henderson WA**. Overexpression of Chemokine C-C Motif Ligand 16 (CCL-16) in Irritable Bowel Syndrome (IBS) Patients. National Institutes of Health, National Institute of Nursing Research. 25th Anniversary scientific symposium, *Bringing Science to Life*. September 2010, Bethesda, Maryland.
63. Del Valle-Pinero AY, Martino AC, Wang D, **Henderson WA**. Inflammatory Biomarker Chemokine C-C Motif Ligand 16 (CCL-16) is Overexpressed in Irritable Bowel Syndrome (IBS) Patients. National Institutes of Health. 2010 NIH Research Festival, October 2010, Bethesda, Maryland.
64. **Henderson WA**, Shankar R, Feld J, Hadigan C. Symptomatic Presentation in Pediatric Hepatitis C. Symposium, Liver Diseases Across the Lifespan: Symptoms, Illness Uncertainty and Decision Making. Invited Symposium at 2010 State of the Science Congress on Nursing Research, September 2010, Washington D.C.
65. **Henderson WA**, Taylor TJ, Shankar R, Anver MR, Butcher DO, Youssef NN. Relationship between Pediatric Gastrointestinal Pain, Mast Cells, Serotonin, and Substance P. Ruth L. Kirschstein, Inspiring the best in Others, May 2010.
66. **Henderson WA**, Martino AC, Taylor TJ, Shankar R, Chen K, Kim KH, Berger A, Zuccolotto AP, Heitkemper M. Validation of the Gastrointestinal Pain Pointer (GIPP) as a Measure of Symptom Severity in Person with Abdominal Pain. Digestive Diseases Week 2010 International Meeting, May 2010, New Orleans, Louisiana.
67. **Henderson, WA**, Taylor TJ, Shankar R, Anver MR, Butcher DO, Youssef NN. The Role of Substance P and Mast Cells as Immunohistologic Biomarkers for Chronic Abdominal Pain in Children. Digestive Diseases Week 2010 International Meeting, May 2010, New Orleans, Louisiana.
68. **Henderson WA**. Symptom Distress Mechanisms in Digestive Disorders. NIH Clinical Center Grand Rounds, Outstanding Science: Past, Present, and Future. April 2010, Bethesda, Maryland.
69. Taylor, TJ, St. John, L, Martino, AC, Shankar R, **Henderson WA**. Association of IL-6, TNF-Alpha, and Body Mass Index in Women after Gastrointestinal Test Solution Ingestion. Women's Health 2010 Conference, Crystal City, Virginia, March 2010.
70. Danley KM, **Henderson WA**, Ibrahim T, Hadigan CM, & Han JC. Acute Pancreatitis after Propofol Administration in a Child with WAGR Syndrome. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition, Potomac, Maryland, November 2009.
71. Martino AC, **Henderson WA**, Rivera E, Liang TJ, Hoofnagle JH, & Ghany MG. Patient-related symptoms in individuals with Hepatitis B Virus treated with Adefovir or Lamivudine and Adefovir. The Liver Meeting 2009 meeting, Boston, Massachusetts, November 2009.
72. **Henderson WA**, Shankar R, Taylor TJ, Gill JM, Kleiner D, & Youssef NN. Immunohistological Differences of Pediatric GI Mucosa in Patients with and without Inflammation Presenting with Chronic

- Abdominal Pain. The Quest for Biomarkers. Digestive Diseases Week 2009 International Meeting, June 2009. Chicago, Illinois.
73. **Henderson WA**, Taylor TJ, Shankar RS, Gill JM, Kleiner DE, & Youssef NN. Interleukin-6, Mast Cell, and 5-HT Correlation with Abdominal Pain Intensity in a Pediatric Cohort. Digestive Diseases Week 2009 International Meeting, June 2009. Chicago, Illinois.
74. Shankar R, Taylor TJ, Martino AC, & **Henderson WA**. Basic and Clinical Review of Gastrointestinal Pain. Presentation to the Intramural Research Program of the National Institute of Nursing Research, April 2009, Bethesda, Maryland.
75. Alexander S, Founds S, & **Henderson WA**. Bringing Genetics into your Program of Nursing Research. Invited symposium presentation to the Eastern Nursing Research Society 2009, March 2009, Annual Meeting in Boston, Massachusetts.
76. Taylor TJ, Youssef NN, Gill JM, Shankar R, Langseder A, Kleiner D, & **Henderson WA**. Comparison of abdominal pain intensity between inflammatory and non-inflammatory pediatric patients. Poster presentation to the Eastern Nursing Research Society 2009 Annual Meeting in Boston, Massachusetts.
77. **Henderson WA**, Schlenk EA, Kim KH, Hadigan CM, Sereika SM & Erlen JA. Validation of the MOS-HIV as a Measure of Health-Related Quality of Life in Persons Living with HIV and Liver Disease. Presented at the Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America, 48th Annual Meeting, October 2008, Washington, D.C.
78. **Henderson WA**, Gill JM, Taylor TJ, Langseder A, Wang XM, Kleiner D, Dise CA & Youssef NN. Genetic Correlates and Abdominal Pain in Pediatric Gastrointestinal Mucosa. Presented at the 2008 National State of Science Congress on Nursing Research, October 2008, Washington, D.C.
79. Dionne, RA, Kim HS, **Henderson WA**, Saligan L, Gill JM. A Model of Biobehavioral Research: (Henderson WA) Development of Individualized Treatment Algorithms in Clinical and Translational Biobehavioral Research. Symposium presentation presented at the 2008 National State of Science Congress on Nursing Research, October 2008, Washington, D.C.
80. **Henderson WA**, Hadigan CM, Feld JJ, & Khan S. Symptomatic and Physiologic Presentations in a Cohort of Pediatric Patients with Hepatitis C. Presented at Digestive Diseases Week International Meeting, May 2008, San Diego, California.
81. Taylor TJ, Wang XM, Youssef NN, Langseder A, Gill JM, Kleiner D, Dise CA, & **Henderson WA**. Isolation of RNA from paraffin embedded pediatric gastrointestinal mucosa: Quest in understanding recurrent abdominal pain in children. Presented at National Institutes of Health, Spring Research Festival, Postbac Poster Day, May 2008, Bethesda, Maryland.
82. **Henderson WA**, Gill JM, Kim KH, Skanderson M, & Butt AA. Relationship of Hepatitis C Virus to Hepatocellular Carcinoma in Dialysis Patients. Presented at European Association for the Study of Liver Diseases International Annual meeting, April 2008, Milan, Italy.
83. **Henderson WA**, Gill JM, Kim KH, Skanderson M, & Butt AA. Specific Predictors of Hepatocellular Carcinoma in Dialysis Patients with Hepatitis C Virus. Presented to transplant medical staff at Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione, April 2008, Palermo, Italy.

84. **Henderson WA.** Clinical and Translational Collaboration: “Promoting Healthy Communities.” Talk for Suburban General/ Intramural National Institute of Nursing Research meeting, April 2008, Bethesda, Maryland.
85. **Henderson WA,** Wang XM, & Youssef NN. Added collaborators after abstract submission. Order on poster Henderson, Gill, Taylor, Langseder, Wang, Kleiner, Dise, Youssef. Gastrointestinal Mucosa Genetic Correlates in Pediatric Functional Gastrointestinal Disorders. Eastern Nursing Research Society, March 2008, Philadelphia, Pennsylvania.
86. **Henderson, WA.** Clinical and Translational Symptom-based Research. Presented at the NIH-University of Oxford and University of Cambridge GPP poster session, February 2008, Bethesda, Maryland.
87. **Henderson WA,** Khan S, Wald A, Sabri M, Cheung O, & Di Lorenzo C. Impaired Gastric Accommodation in Children with Non-ulcerative Dyspepsia. Presented at the National Institute of Health 1st Annual Nurse Practitioner Week Research Festival, November 2007, Bethesda, Maryland.
88. **Henderson WA,** Erlen JA, Kim KH, Schlenk EA, Matthews JT, Lu X , & Martino A. Testing a Predictive Model of Health-Related Quality of Life in Persons with HIV and Liver Disease. Oral presentation at the Association of Nurses in AIDS Care Annual Meeting, November 2007, Orlando, Florida.
89. **Henderson WA,** Erlen JA, Kim KH, Schlenk EA, Matthews JT, D’Ambrosia E, Martino A, & Lu X. Testing a Model of Quality of Life in Persons with HIV and Liver Disease. Oral presentation at the Annual Sigma Theta Tau, Epsilon Phi meeting, May 2007, Pittsburgh, Pennsylvania.
90. **Henderson WA,** Erlen JA, & Kim KH. Missed clinic appointments and altered cognitive function associated with HIV and Liver Disease. Oral presentation at the 19th Annual Scientific Sessions of the Eastern Nursing Research Society, April 2007, Providence, Rhode Island.
91. Thurkettle MA, Goodfellow L, & **Henderson WA.** Building an On-line Community of Scholars in a Small Research Intensive University. Symposium presentation at the 19th Annual Scientific Sessions of the Eastern Nursing Research Society, April 2007, Providence, Rhode Island.
92. **Henderson WA.** Model Testing: Linking Biologic Indicators with Health Related Quality of Life, National Institute of Nursing Research Intramural Program, December 2006, Bethesda, Maryland.
93. **Henderson WA,** Thurkettle MA, Kim KH, Patrick T, Skanderson M, & Butt A. Predictors of Hepatocellular Carcinoma in Dialysis Patients with Hepatitis C Virus. National State of the Science Congress in Nursing Research, October 2006, Bethesda, Maryland (poster).
94. **Henderson WA,** Erlen JA, Caruthers D,& Sereika SM. Validity of a measure of Health-related Quality of Life in Individuals with HIV and Liver Disease. Eastern Nursing Research Society, April 2006, Cherry Hill, New Jersey (oral presentation).
95. **Henderson WA,** Caruthers D, & Erlen JA. Quality of Life in Individuals with HIV and Liver Disease. Eastern Nursing Research Society, April 2005, New York, New York (oral paper presentation).
96. **Henderson WA,** Caruthers D, & Erlen JA. Predictors of quality of life in individuals with HIV and liver disease. Sigma Theta Tau Scientific Session, February 2005, Pittsburgh, Pennsylvania (poster).

97. **Henderson WA**, Sacco SD, & Khan S. The impact of Hepatitis C in adolescents and young adults: A pilot study. Greater Pittsburgh Sixteenth Annual Nursing Research Conference, October 2004, Pittsburgh, Pennsylvania (poster).
98. Khan S, **Henderson WA**, Sabri M, Cheung O, Wald A, & Di Lorenzo C. Gastric sensorimotor parameters in children. World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition, July 2004, Paris, France.
99. Sabri M, Di Lorenzo C, **Henderson WA**, & Khan S. Dose, efficacy and acceptability of oral sodium phosphate solution for bowel preparation: a randomized single blinded study. World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition, July 2004, Paris, France.
100. Khan S, **Henderson WA**, Sabri M, Cheung O, Wald A, & Di Lorenzo C. Gastric Sensorimotor Parameters in children with non-ulcer dyspepsia are comparable to children with organic dyspepsia. American Gastroenterological Association Meeting, May 2004, New Orleans, Louisiana. Platform presentation with merit award.
101. **Henderson WA**, Sacco D, & Khan S. Assessing the Magnitude of Hepatitis C in Adolescents and Young Adults; A Pilot Feasibility Study. University of Pittsburgh, School of Nursing, Scientific Sessions, May 2004, Pittsburgh, Pennsylvania (poster).
102. Khan S, Sabri M, **Henderson WA**, Cheung O, Wald A, & Di Lorenzo C. Gastric Sensorimotor parameters in children with non-ulcer dyspepsia (NUD). North American Society of Pediatric Gastroenterology and Nutrition Meeting, October 2003, Montreal, Canada (poster).
103. **Henderson WA**, Khan S, & O'Brien C. Failure to thrive: A rare case of isolated lipase deficiency. American College of Gastroenterology Annual Scientific meeting, October, 2002, Seattle, WA (poster).
104. Khan S, **Henderson WA**, Kocoshis SA, Goyal A, & Di Lorenzo C. The use of infliximab in pediatric Crohn's disease. American Gastroenterological Association Meeting, May 2001, Atlanta, GA (poster).

INVITED PRESENTATIONS (selected)

- 2019 Kaplan D & **Henderson WA**. Moderators. Grant Writing Symposium. The Liver Meeting. AASLD, Boston, MA
- 2019 Genomics and Health Care Expert Panel, Symposium, American Academy of Nursing, Washington, DC.
- 2019 **Henderson WA** et al., NINR Panel Discussion. ENRS Annual Meeting
- 2019 Kim CH & **Henderson WA**. Innovation Competition. Digestive Disease Week. Shark Tank Oral presentation, San Diego, CA. Placed 2nd in International Competition
- 2018 **Henderson WA**. Keynote: Professional Collaboration in Nurse Led Innovations. 9th Annual NewYork-Presbyterian Hospital, Nursing Research, Evidence-Based Practice and Innovation Symposium, New York.
- 2018 **Henderson WA**. A Precision Medicine Approach to Pain. Chronic Abdominal Pain: Imagine, Innovate, Implement Interventions. UConn, Storrs, CT.
- 2018 Kim CH et al. **Henderson WA**. 2018 AGA Innovation Summit, Boston, MA.
- 2017 **Henderson WA**. Brain-Gut-Microbiota interactions and intestinal health. 3rd International Workshop on Microbiome in HIV Pathogenesis, Prevention and Treatment, Keynote speaker, Rockville, MD.
- 2017 **Henderson WA**. Getting Gutsy: The Impact of the Microbiome on Gastrointestinal Health, Mt. Sinai Research Day Keynote, NY.
- 2017 **Henderson WA**. Genetics and Genomics Boot Camp, NINR, NIH, Bethesda, MD.
- 2016 **Henderson WA**. Brain-Gut-Microbiota Axis in obesity and metabolic disorders & Personalized Health in a Symptom Science Model. Research Institute of Nursing Science & College of Nursing, Keimyung University, Republic of Korea. Invited keynotes.
- 2016 **Henderson WA**. Innovation Keynote. Athena Conference. University of Connecticut.
- 2016 **Henderson WA**. Eastern Nursing Research Society.
- Henderson WA**. Oncology Nursing Society. Epigenetics and Cancer.
- 2016 **Henderson WA**. NHLBI, Microbiome Work Group
- 2015 **Henderson WA**. & Joseph PV. University of Pennsylvania Board of Overseers.
- 2015 **Henderson WA**. Brain-Gut Genomic Interactions of the Host and the Microbiome, International Society of Nurses in Genetics. Pittsburgh, PA.
- 2014 **Henderson WA**. Brain-Gut Genomic Signatures in a Symptom Science Model. NYU College of Nursing. New York, New York.
- 2014 **Henderson Lab**. “The Scientist Is In” Smithsonian Institute, Washington, DC. Invited back in 2015.
- 2014 **Henderson WA**. Data Driven Science to Guide Practice and Improve Patient Related Outcomes. 2014 Intensive Winter Institute American Nurses Association and the American Psychiatric Association Minority Fellowship Program, Arlington, Virginia.
- 2013 **Henderson WA**. International Society for Nurses in Genetics, panel discussion. Unable to present due to government furlow.
- 2013 **Henderson WA**. NINR Council Meeting. (also 2016, 2017)

- 2012 **Henderson WA.** Charting Genetic Discovery: Nurse-Led Personalized Care Maps for the Future. International Society for Nurses in Genetics, Invited Keynote Address.
- 2012 **Henderson WA.** Genetics Alliance. Washington, DC.
- 2012 **Henderson WA.** Immuno-Genetic Biomarker Discovery in Patients with Gastrointestinal Symptom Distress. Nurse Practitioner Special Interest Group Talk, February 13, 2012. Clinical Center, NIH, Bethesda, Maryland.
- 2011 **Henderson WA.** Bringing Genetics into your Program of Clinical and Translational Research, NINR Summer Genetics Institute, June 26, 2011, NINR, NIH, Bethesda, Maryland.
- 2011 **Henderson WA.** What's next (in Nursing Education). Association of Student Nurses, Annual Meeting, January 29, 2011, University of Maryland Baltimore Campus, Baltimore, Maryland.
- 2010 **Henderson WA.** Gastrointestinal Pain Measurement. Pain Boot Camp, July 20, 2010, NINR, NIH, Bethesda, Maryland.
- 2010 **Henderson WA.** Summer Genetics Institute, NINR, NIH, Bethesda, Maryland.
- 2009 **Henderson WA, Mitchell S, et al.** Choices, Challenges, and Career Changes: Doctoral Education for Advanced Practice Nurses. Sponsored by the Nurse Practitioner Group at the NIH. November 19th, 2009, NIH, Bethesda, Maryland.
- 2009 **Henderson WA.** Developing Scientific Poster Presentations. Presented to the Summer Internship Program NINR students and Intramural Research Program. July 7, 2009, National Institute of Nursing Research, NIH, Bethesda, Maryland.
- 2008 **Henderson WA.** Clinical and Translational Collaboration "Promoting Healthy Communities." Presented to the administration from Suburban Hospital and the National Institute of Nursing Research, Intramural Research Program, April 2, 2008, NINR, NIH, Bethesda, Maryland.
- 2007 **Henderson WA.** Functional Gastrointestinal Disorders. Presented to visiting nurse scholars from Thailand, November 7, 2007, The National Institute of Nursing Research, National Institutes of Health, Bethesda, Maryland.
- 2007 **Henderson WA, Thurkettle MA, Schumacher G, & Risco K.** Tag You're IT! Online research literature tag. Technology to increase nurses' ability to conduct literature searches. Panel at Blackboard Conference for Innovative Teaching Technologies, March 5-6, 2007, Duquesne University, Pittsburgh, Pennsylvania.
- 2006 **Henderson WA.** Co-infection literature review for HIV and Hepatitis C Virus. Journal Club, Center for Research in Chronic Disorders, University of Pittsburgh, School of Nursing, Pittsburgh, Pennsylvania.
- 2004 **Henderson WA & Sebbens D.** Advanced Practice Management for the Primary Care Clinician, Management of GI Problems in Children, University of Pittsburgh, School of Nursing, Pittsburgh, Pennsylvania.
- 1999-2003 **Henderson WA.** Clinical Instructor, 3rd year medical students, Common GI Problems, University of Pittsburgh, School of Medicine, Pittsburgh, Pennsylvania.
- 1996/1997 **Henderson WA.** American Diabetes Association, Diabetes Update, Indiana, Pennsylvania
- 1997 Matilda Theiss, Senior Group, Diabetes Prevention, Pittsburgh, Pennsylvania.
- 1996/1997 Squirrel Hill HealthPLACE, Diabetes Prevention, Pittsburgh, Pennsylvania.
- 1993/1994 Project 2000, Parent's Day, Pinning Ceremony, Keynote student speaker for Deans' Convocation, University of Pittsburgh, School of Nursing, Pittsburgh, Pennsylvania.

MEMBERSHIPS: PROFESSIONAL

- American Academy of Nursing, American Nursing Association, Inducted Fellow
- American Association for the Study of Liver Diseases
- American Gastroenterological Association
- American Neurogastroenterology and Motility Society
- Society for Clinical and Translational Science
- Council for the Advancement of Nursing Science
- Eastern Nursing Research Society
- Sigma Theta Tau International Honor Society of Nursing

Past

- National Association of Nurse Practitioner Faculties
- Society of Gastroenterology Nurses and Associates, Inc.
- National Association of Pediatric Nurse Associates & Practitioners
- Association of Nurses in AIDS care

MENTEE AWARDS

1. **Dr. Paule Joseph**, Post-doctoral funding from the NIH Office of Workforce Diversity (2015-2016) renewed (2016-2017), NIH Community College Summer Enrichment Program mentee award, 2016 & 2017. Rockefeller Grant, 2016. Amgen Summer Mentor Award 2017. NIH Future Research Leaders Awardee 2016. Current Position: Assistant Clinical Investigator 2018 & Lab Chief NINR Division of Intramural Research. DDW Poster of Distinction 2016. NIH Loan Repayment Award 2018, 2019. **Lasker Award** recipient 2019. Distinguished Scholars Award, NIH 2019.
2. **Dr. Nicolaas Fourie**, Digestive Diseases Week, Poster of Distinction 2013 & 2015. Amgen Scholar mentee awarded to Dr. Fourie, 2015. NIH Community College Summer Enrichment Program Mentor award, 2016.
3. **Dr. Kristen Weaver**, NINR/NYU Graduate Partnership Program 2015-2017: ENRS Co-first prize doctoral paper presentation. American Gastroenterology Association Travel Award, 2016. Rockefeller Grant, 2016. American Association of Colleges of Nursing Outstanding Dissertation Award winner 2018.
4. **Dr. LeeAnne Sherwin**, NIH Community College Summer Enrichment Program mentee award, 2015. Internal funding, University of Missouri, Junior Faculty award 2016. PCORI funding 2017. Midwestern Mid-Career Awardee 2020.
5. **Dr. Bridgett Rahim-Williams**, National Institute on Minority Health & Health Disparities, NIH fellowship **DREAM award**, 1K22MD006143-01, NIH Loan Repayment Award. Current Position: fully tenured Professor & Associate Dean for Research, College of Health Sciences at Bethune-Cookman University.
6. **Dr. Xiaomei Cong**, University of Connecticut, 1K23NR014674-01, 09/27/2013-07/31/2016, Early Life Experience Imprints Gut Microbiome in Preterm Infants; Institute for Systems Genomics Affinity Research collaboratives- Internal funding award University of Connecticut Health Center, School of Medicine, 7/24/2013, Early Life Physiological and Psychosocial Stress Imprints Gut Microbiome in Preterm Infants. RO1 funding 9/2017 position tenured Professor of Nursing, University of Connecticut.

7. **Dr. Ralph Michael Peace**, Howard Hughes Medical Institute Fellow, NINR 25th Anniversary Intramural Poster Award, 2011; Burroughs Wellcome Foundation funding for Post-doctoral fellowship 2012-2013; Clinical and Translational Poster Award 2012.
8. **Dr. Yesy Del Valle Pinero**, Puerto Rican Young Scientist Award, 2011. Current position: FDA Scientist.
9. **Ms. Onyi Ozoji** (IRTA) first prize poster presentation for undergraduate nurses, ENRS, 2016. Full tuition scholarship for second degree BSN at University of Maryland.
10. **Mr. Natneal Kenea**, (IRTA) full presidential scholarship to Georgetown School of Medicine 2016-2020.
11. **Dr. Ana Diallo**, Sigma Theta Tau, Research Grant 2016 (chair Dr. J. McGrath, UConn). NCATS fellowship, Office of Dietary Supplements Fellowship 2017. NINR/NIH Summer Genetics Institute Fellow 2018.
12. **Dr. Wanli Xu**, American Nurses Foundation Research Grant 2016 (chair Dr. X. Cong, UConn).
13. **Dr. Stephanie Prescott**, NINR, Graduate Partnership Program NIH 2016-2019, UVA doctoral student. Doctoral student dissertation award. NCI Cancer Training Postdoctoral Fellowship Award, National Cancer Institute 2019-2021.