

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate			
1984-1988	Peking University Beijing, P.R. China	BS, 1988	Probability and Statistics
Graduate			
1991-1994	Peking University Beijing, P.R. China	MS, 1994	Probability and Statistics
1999-2004	Medical College of Wisconsin Milwaukee, WI	PhD, 2004	Biostatistics

APPOINTMENTS AND POSITIONS

Academic		
11/2020 - Present	Research Associate Professor (Primary)	Department of Biostatistics, GSPH, University of Pittsburgh, Pittsburgh, PA
9/2004 -10/2020	Research Assistant Professor (Primary)	Department of Biostatistics, GSPH, University of Pittsburgh, Pittsburgh, PA
8/2000 - 8/2004	Research Assistant	Children's Hospital of Wisconsin and Medical College of Wisconsin, Milwaukee, WI
9/1994 - 7/1999	Lecturer	Department of Applied Mathematics, Beijing Institute of Technology, Beijing, P.R. China
9/1988 - 8/1991	Lecturer	Department of Mathematics, Wuhu Teachers College, Wuhu, P.R. China

Non-Academic		
9/2004-Present	Interim Director	UPMC HCC Biostatistics Facility, University of Pittsburgh, Pittsburgh, PA
9/2004-Present	Biostatistician	UPMC HCC Biostatistics Facility, University of Pittsburgh, Pittsburgh, PA

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2002 - Present	Member, American Statistical Association (ASA)
2008 - 2009	Member, American Association for Cancer Research (AACR)
2009 - 2010	Member, American Society for Radiation Oncology (ASTRO)
2013 - Present	Member, The Eastern North American Region of the International Biometric Society (ENAR)

HONORS

1997	SMC Teaching Fellowship Beijing Institute of Technology, Beijing, China
2003	Student of the Year, Division of Biostatistics, Medical College of Wisconsin, Milwaukee, WI

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary/Coordinator
1988-1991	Advanced Calculus	3 credits, ~40 students	Lecturer
1988-1991	Advanced Algebra	3 credits,	Lecturer

		~40 students	
1994-1999	Probability and Statistics	3 credits, ~50 students	Lecturer
1996-1998	Linear Regression Analysis	2 credits, ~6 MS students	Lecturer
1998-1999	Advanced Statistics	2 credits, ~7 MS students	Lecturer
2011	Introduction to Statistics	11 hours, 6 medical residents	Lecturer
2019-Present	MED5715, Neoplasia & Neoplastic Disease	1 credit, 15-20 students	Guest Lecturer

b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
2009 - Present	Statistical Advisor	Hematology/Oncology Fellow's Journal Club; 20-30 fellows

c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Yi Yao	M.S. Biostatistics 2017	Thesis Title: Comparison of Novel Phase I Clinical Trial Designs Based on Toxicity Probability Intervals	Committee Chair

d. Service on Masters or Doctoral Committees

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
2019	Jie Yao	M.S.	Modelling Stillbirths with Natural Cubic Splines
2020	Huang Lin	PhD	Statistical Theory and Methodology for the Analysis of Microbial Compositions, with Applications

f. Supervision of Post-Doctoral Students, Residents, and Fellows

Dates Supervised	Name of Student	Position of Student
2019	Huang Lin	GSR

2. Research and Training

a. Grants and Contracts Received

Co-Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Total Cost	%Effort
8/1/04-7/31/22	2P30 CA47904 30 Cancer Center Support Grant (Biostatistics Facility)	NIH	\$36,252	29.5%
9/1/20-8/31/21	5U19A068021 CMCR - Mechanism-Directed Sequential Delivery of Radiation Mitigators	NIH	\$65,419	47.0%
9/1/05-8/31/20	1U19 AI068021 Mitochondrial Targets Against Radiation Damage	NIH/NIAID		47.0%
7/1/20-6/20/23	R01 CA232593-01A1 Three dimensional nanoscale nuclear architecture mapping based taxonomy of precursor lesions for predicting colorectal cancer risk	NIH	\$6,742	5.0%
1/4/20-12/31/21	R01 CA214018 Image guided immunotherapy & targeted radionuclide therapy of metastatic melanoma	NIH		5.0%
8/1/19 – 7/31/20	XXX415520XXX Mitigation of Intestinal Irradiation Damage by IL-22 Secreting Lactobacillus	NIH	\$4,038	3.0%
6/1/18-5/31/23	1R01 CA222203-01A Fecal Microbiota Transplant and PD-1 blockade in Melanoma	NCI	\$6,342	5.0%
6/1/18-5/31/23	1R01CA228281 Targeting TIGIT and PD-1 in melanoma	NCI	\$6,326	5.0%

6/1/18-5/31/22	W81XWH-18-1-0210 Metabolic remodeling of the tumor microenvironment to improve the efficacy of immunotherapy.	DOD		2.0%
7/1/17-6/30/19	Assessment of Tumor Micro-Environment and Type I IFN signaling with Pembrolizumab-Pegylated IRN combination in advanced Melanoma: Prognostic and therapeutic implications	Harry J. Lloyd Charitable Trust	\$6,282	7.0%
5/1/14 - 4/30/19	R01 CA185363-01 (PQC2) Alteration of 3D Nuclear Organization at Nanoscale in Breast Tumorigenesis	NIH/NCI	\$6001	5.0%
9/12/13 - 6/11/14	PHS 2013-1 A Novel Agent that Reduces Radiation Side Effects in Head & Neck Cancer Patients	SBIR/Colby Pharmaceutical		
9/1/13 - 6/30/19	P50 CA121973 10S2 SPORE in Skin Cancer	NIH/NCI		13.0%
4/1/13 – 3/31/18	R01GM102989-01A1 Rational Design of Lipidic Vectors for Mitochondria-Targeted Antioxidants	NIH/NCI	\$5,597	4.0%
9/1/12 - 8/31/14	NanoVision Diagnostics: Improved Cancer Diagnosis	Coulter Foundation		
5/1/12 - 4/30/14	R21 CA164433 Nano-architecture Based Biomarkers for Cervical Cancer Screening	NIH/NCI		
4/01/11 - 3/31/16	R01CA157467-01 Reversing Melanoma-induced T Cell Dysfunction	NIH/NCI		2.0%
9/10/08-7/31/13	R01 CA129557 Breast Cancer Risk: Analysis of Heightened HPA Axis Stress Responsivity	NIH/NCI		
7/1/08 – 5/31/13	R01 CA119927 Mechanism of Irradiation Pulmonary Fibrosis	NIH/NCI		

PUBLICATIONS

1. Refereed Articles

1. Espinal A, Epperly MW, Mukherjee A, Fisher R, Shields D, Wang H, Huq MS, Hamade DF, Vlad AM, Coffman L, Buckanovich R, Yu J, Leibowitz BJ, van Pijkeren JP, Patel RB, Stolz D, Watkins S, Ejaz A, Greenberger JS. Intestinal Radiation Protection and Mitigation by Second-Generation Probiotic *Lactobacillus-reuteri* Engineered to Deliver Interleukin-22. *Int J Mol Sci*. 2022 May 17;23(10):5616. doi: 10.3390/ijms23105616. PMID: 35628427; PMCID: PMC9145862.
2. Shaikh SS, Yang X, Fortman DD, Wang H, Davar D, Luke JJ, Zarour H, Kirkwood JM, Najjar YG. A Retrospective Analysis of the Impact of the COVID-19 Pandemic on Staging at Presentation of Patients with Invasive Melanoma. *J Am Acad Dermatol*. 2022 May 9:S0190-9622(22)00798-8. doi: 10.1016/j.jaad.2022.05.008. Epub ahead of print. PMID: 35551967; PMCID: PMC9085439.
3. Hamade DF, Espinal A, Yu J, Leibowitz BJ, Fisher R, Hou W, Shields D, van Pijkeren JP, Mukherjee A, Epperly MW, Vlad A, Coffman L, **Wang H**, Huq MS, Patel R, Huang J, Greenberger JS. *Lactobacillus reuteri* Releasing IL-22 (LR-IL-22) Facilitates Intestinal Radioprotection for Whole-Abdomen Irradiation (WAI) of Ovarian Cancer. *Radiat Res*. 2022 Apr 21. doi: 10.1667/RADE-21-00224.1. Epub ahead of print. PMID: 35446961.
4. Matsumoto M, Wack S, Weinstock MA, Geller A, **Wang H**, Solano FX, Kirkwood JM, Ferris LK. Five-Year Outcomes of a Melanoma Screening Initiative in a Large Health Care System. *JAMA Dermatol*. 2022 Apr 6:e220253. doi: 10.1001/jamadermatol.2022.0253. Epub ahead of print. PMID: 35385051; PMCID: PMC8988026.
5. Karapetyan L, Yang X, Knight AD, Huang Z, **Wang H**, Sander CA, Minnier CP, Wilson M, Li A, Karunamurthy A, Storkus WJ, Kirkwood JM. Poorer survival outcomes in patients with multiple versus single primary melanoma. *Cancer*. 2022 Mar 23. doi: 10.1002/cncr.34169. Epub ahead of print. PMID: 35319783.
6. Bastacky ML, **Wang H**, Fortman D, Rahman Z, Mascara GP, Brenner T, Najjar YG, Luke JJ, Kirkwood JM, Zarour HM, Davar D. Immune-Related Adverse Events in PD-1 Treated Melanoma and Impact Upon Anti-Tumor Efficacy: A Real World Analysis. *Front Oncol*. 2021 Nov 26;11:749064. doi: 10.3389/fonc.2021.749064. PMID: 34900695; PMCID: PMC8662734.
7. Mukherjee A, Epperly MW, Shields D, Hou W, Fisher R, Hamade D, **Wang H**, Saiful Huq M, Bao R, Tabib T, Monier D, Watkins S, Calderon M, Greenberger JS. Ionizing irradiation-induced Fgr in senescent cells mediates fibrosis. *Cell Death Discov*. 2021 Nov 12;7(1):349. doi: 10.1038/s41420-021-00741-4. PMID: 34772919; PMCID: PMC8585734.
8. Mukherjee A, Epperly MW, Fisher R, Hou W, Shields D, **Wang H**, Greenberger JS, Ortiz LA. Silica Induced Lung Fibrosis Is Associated With Senescence, Fgr, and Recruitment of Bone Marrow Monocyte/Macrophages. *In Vivo*. 2021 Nov-Dec;35(6):3053-3066. doi: 10.21873/invivo.12601. PMID: 34697137; PMCID: PMC8627768.

9. Epperly MW, Shields D, Fisher R, Hou W, **Wang H**, Hamade DF, Mukherjee A, Greenberger JS. Radiation-Induced Senescence in p16⁺/LUC Mouse Lung Compared to Bone Marrow Multilineage Hematopoietic Progenitor Cells. *Radiat Res.* 2021 Sep 1;196(3):235-249. doi: 10.1667/RADE-20-00286.1. PMID: 34087939; PMCID: PMC8456367.
10. Davar D, Dzutsev AK, McCulloch JA, Rodrigues RR, Chauvin JM, Morrison RM, Deblasio RN, Menna C, Ding Q, Pagliano O, Zidi B, Zhang S, Badger JH, Vetizou M, Cole AM, Fernandes MR, Prescott S, Costa RGF, Balaji AK, Morgun A, Vujkovic-Cvijin I, **Wang H**, Borhani AA, Schwartz MB, Dubner HM, Ernst SJ, Rose A, Najjar YG, Belkaid Y, Kirkwood JM, Trinchieri G, Zarour HM. Fecal microbiota transplant overcomes resistance to anti-PD-1 therapy in melanoma patients. *Science.* 2021 Feb 5;371(6529):595-602. doi: 10.1126/science.abf3363. PMID: 33542131; PMCID: PMC8097968.
11. Karapetyan L, Yang X, **Wang H**, Sander CA, Moyer A, Wilson M, Karunamurthy A, Kirkwood JM. Indoor tanning exposure in association with multiple primary melanoma. *Cancer.* 2021 Feb 15;127(4):560-568. doi: 10.1002/cncr.33307. Epub 2020 Nov 10. PMID: 33170961.
12. Thermozi S, Hou W, Zhang X, Shields D, Fisher R, Bayir H, Kagan V, Yu J, Liu B, Bahar I, Epperly MW, Wipf P, **Wang H**, Huq MS, Greenberger JS. Anti-Ferroptosis Drug Enhances Total-Body Irradiation Mitigation by Drugs that Block Apoptosis and Necroptosis. *Radiat Res.* 2020 May;193(5):435-450. doi: 10.1667/RR15486.1. Epub 2020 Mar 5. PMID: 32134361.
13. Thomas J, **Wang H**, Clump DA, Ferris RL, Duvvuri U, Ohr J, Heron DE. Long-Term Patient-Reported Quality of Life After Stereotactic Body Radiation Therapy for Recurrent, Previously-Irradiated Head and Neck Cancer. *Front Oncol.* 2020 Feb 5;10:83. doi: 10.3389/fonc.2020.00083. PMID: 32117738; PMCID: PMC7013096.
14. Zhang X, Fisher R, Hou W, Shields D, Epperly MW, **Wang H**, Wei L, Leibowitz BJ, Yu J, Alexander LM, VAN Pijkeren JP, Watkins S, Wipf P, Greenberger JS. Second-generation Probiotics Producing IL-22 Increase Survival of Mice After Total Body Irradiation. *In Vivo.* 2020 Jan-Feb;34(1):39-50. doi: 10.21873/invivo.11743. PubMed PMID: 31882461.
15. Epperly MW, Fisher R, Zhang X, Hou W, Shields D, Wipf P, **Wang H**, Thermozi S, Greenberger JS. Fanconi Anemia Mouse Genotype-specific Mitigation of Total Body Irradiation by GS-Nitroxide JP4-039. *In Vivo.* 2020 Jan-Feb;34(1):33-38. doi: 10.21873/invivo.11742. PubMed PMID: 31882460.
16. Mehta KD, Siddappa Malleshappa SK, Patel S, Giri S, **Wang H**, Smith R, Parikh RA. Trends of Inpatient Venous Thromboembolism in United States Before and After the Surgeon General's Call to Action. *Am J Cardiol.* 2019 Sep 15;124(6):960-965. PMID: 31324359.
17. Thermozi S, Zhang X, Hou W, Fisher R, Epperly MW, Liu B, Bahar I, **Wang H**, Greenberger JS. Radioresistance of Serpinb3a^{-/-} Mice and Derived Hematopoietic and Marrow Stromal Cell Lines. *Radiat Res.* 2019 Sep;192(3):267-281. PMID: 31295086; PMCID: PMC6759811.
18. Epperly MW, Fisher R, Rigatti L, Watkins S, Zhang X, Hou W, Shields D, Franicola D, Bayir H, **Wang H**, Thermozi S, Henderson A, Donnelly C, Wipf P, Greenberger JS. Amelioration of Amyotrophic Lateral Sclerosis in SOD1(G93A)

Mice by M(2) Microglia from Transplanted Marrow. *In Vivo*. 2019 May-Jun;33(3):675-688. PMID: 31028184. PMCID: PMC6559904.

19. Zhang X, Fisher R, Shields D, Hou W, Franicola D, **Wang H**, Epperly MW, Rigatti L, Greenberger JS. Malignant Transformation of Fanconi Anemia Complementation Group D2-deficient (Fancd2 (-/-)) Hematopoietic Progenitor Cells by a Single HPV16 Oncogene. *In Vivo*. 2019 Mar-Apr;33(2):303-311. PMID: 30804107. PMCID: PMC6506306.
20. Kenny EM, Fidan E, Yang Q, Anthonymuthu TS, New LA, Meyer EA, **Wang H**, Kochanek PM, Dixon CE, Kagan VE, Bayir H. Ferroptosis Contributes to Neuronal Death and Functional Outcome After Traumatic Brain Injury. *Crit Care Med*. 2019 Mar;47(3):410-418. PMID: 30531185; PMCID: PMC6449247.
21. Davar D, **Wang H**, Chauvin JM, Pagliano O, Fourcade JJ, Ka M, Menna C, Rose A, Sander C, Borhani AA, Karunamurthy A, Tarhini AA, Tawbi HA, Zhao Q, Moreno BH, Ebbinghaus S, Ibrahim N, Kirkwood JM, Zarour HM. Phase Ib/II Study of Pembrolizumab and Pegylated-Interferon Alfa-2b in Advanced Melanoma. *J Clin Oncol*. 2018 Oct 25;JCO1800632. PMID: 30359157; PMCID: PMC6286160.
22. Dar HH, Tyurina YY, Mikulska-Ruminska K, Shrivastava I, Ting HC, Tyurin VA, Krieger J, St Croix CM, Watkins S, Bayir E, Mao G, Armbruster CR, Kapralov A, **Wang H**, Parsek MR, Anthonymuthu TS, Ogunsola AF, Flitter BA, Freedman CJ, Gaston JR, Holman TR, Pilewski JM, Greenberger JS, Mallampalli RK, Doi Y, Lee JS, Bahar I, Bomberger JM, Bayir H, Kagan VE. Pseudomonas aeruginosa utilizes host polyunsaturated phosphatidylethanolamines to trigger theft-ferroptosis in bronchial epithelium. *J Clin Invest*. 2018 Oct 1;128(10):4639-4653. PMID: 30198910; PMCID: PMC6159971.
23. Sutera P, Clump DA, Kalash R, D'Ambrosio D, Mihai A, **Wang H**, Petro DP, Burton SA, Heron DE. Initial Results of a Multicenter Phase 2 Trial of Stereotactic Ablative Radiation Therapy for Oligometastatic Cancer. *Int J Radiat Oncol Biol Phys*. 2019 Jan 1;103(1):116-122. PMID: 30149056.
24. Sutera PA, Bernard ME, **Wang H**, Heron DE. Prognostic Factors for Elderly Patients Treated With Stereotactic Body Radiation Therapy for Pancreatic Adenocarcinoma. *Front Oncol*. 2018 Jul 27;8:282. PMID: 30101127; PMCID: PMC6072866.
25. Fourcade J, Sun Z, Chauvin JM, Ka M, Davar D, Pagliano O, **Wang H**, Saada S, Menna C, Amin R, Sander C, Kirkwood JM, Korman AJ, Zarour HM. CD226 opposes TIGIT to disrupt Tregs in melanoma. *JCI Insight*. 2018 Jul 26;3(14). PMID: 30046006; PMCID: PMC6124410.
26. Willis J, Epperly MW, Fisher R, Zhang X, Shields D, Hou W, **Wang H**, Li S, Wipf P, Parmar K, Guinan E, Steinman J, Greenberger JS. Amelioration of Head and Neck Radiation-Induced Mucositis and Distant Marrow Suppression in Fanca(-/-) and Fancg(-/-) Mice by Intraoral Administration of GS-Nitroxide (JP4-039). *Radiat Res*. 2018 Jun;189(6):560-578. PMID: 29584588. PMCID: PMC5973476.
27. Sutera P, Bernard ME, **Wang H**, Bahary N, Burton S, Zeh H, Heron DE. Stereotactic Body Radiation Therapy for Locally Progressive and Recurrent Pancreatic Cancer after Prior Radiation. *Front Oncol*. 2018 Mar 7;8:52. PMID: 29564223; PMCID: PMC5845878.

28. Mehta K, Im A, Rahman F, **Wang H**, Veldkamp P. Epidemiology and Outcomes of Hematopoietic Stem Cell Transplant in HIV (+) Patients from 1998 to 2012: A Nationwide Analysis. *Clin Infect Dis*. 2018 Jun 18;67(1):128-133. PMID: 29325063.
29. Achkar T, Arjunan A, **Wang H**, Saul M, Davar D, Appleman LJ, Friedland D, Parikh RA. High-dose interleukin 2 in patients with metastatic renal cell carcinoma with sarcomatoid features. *PLoS One*. 2017 Dec 20;12(12):e0190084. eCollection 2017. PMID: 29261796; PMCID: PMC5738119.
30. Steinman J, Epperly M, Hou W, Willis J, **Wang H**, Fisher R, Liu B, Bahar I, McCaw T, Kagan V, Bayir H, Yu J, Wipf P, Li S, Huq MS, Greenberger JS. Improved Total-Body Irradiation Survival by Delivery of Two Radiation Mitigators that Target Distinct Cell Death Pathways. *Radiat Res*. 2018 Jan;189(1):68-83. PMID: 29140165; PMCID: PMC5808408.
31. Eiseman JL, Sciullo M, **Wang H**, Beumer JH, Horn CC. Estimation of body surface area in the musk shrew (*Suncus murinus*): a small animal for testing chemotherapy-induced emesis. *Lab Anim*. 2017 Oct;51(5):534-537. PMID: 28948895; PMCID: PMC5654602.
32. Boyiadzis M, Agha M, Redner RL, Sehgal A, Im A, Hou JZ, Farah R, Dorritie KA, Raptis A, Lim SH, **Wang H**, Lapteva N, Mei Z, Butterfield LH, Rooney CM, Whiteside TL. Phase 1 clinical trial of adoptive immunotherapy using "off-the-shelf" activated natural killer cells in patients with refractory and relapsed acute myeloid leukemia. *Cytotherapy*. 2017 Oct;19(10):1225-1232. PMID: 28864289.
33. Epperly MW, Zhang X, Fisher R, Hou W, Franicola D, Shields D, Quickel M, Hankey-Giblin P, **Wang H**, Greenberger JS. Reduced Competitive Repopulation Capacity of Multipotential Hematopoietic Stem Cells in the Bone Marrow of Friend Virus-infected Fv2-resistant Mice. *In Vivo*. 2017 May-Jun;31(3):313-320. PMID: 28438857; PMCID: PMC5461439.
34. Epperly MW, Rhieu BH, Franicola D, Dixon T, Cao S, Zhang X, Shields D, **Wang H**, Wipf P, Greenberger JS. Induction of TGF- β by Irradiation or Chemotherapy in Fanconi Anemia (FA) Mouse Bone Marrow Is Modulated by Small Molecule Radiation Mitigators JP4-039 and MMS350. *In Vivo*. 2017 Mar-Apr;31(2):159-168. PMID: 28358695; PMCID: PMC5411740.
35. Epperly MW, Sacher JR, Krainz T, Zhang X, Wipf P, Liang M, Fisher R, Li S, **Wang H**, Greenberger JS. Effectiveness of Analogs of the GS-Nitroxide, JP4-039, as Total Body Irradiation Mitigators. *In Vivo*. 2017 Jan 2;31(1):39-43. PMID: 28064218; PMCID: PMC5267945.
36. Zhang X, Hou W, Epperly MW, Rigatti L, **Wang H**, Franicola D, Sivanathan A, Greenberger JS. Evolution of malignant plasmacytoma cell lines from K14E7 Fancd2-/- mouse long-term bone marrow cultures. *Oncotarget*. 2016 Oct 18;7(42):68449-68472. PMID: 27637088; PMCID: PMC5356567.
37. Mehta K, Appleman L, **Wang H**, Tarhini AA, Parikh RA. Annual Hospital Volume of High Dose Interleukin-2 and Inpatient Mortality in Melanoma and Renal Cell Carcinoma Patients. *PLoS One*. 2016 Jan 22;11(1):e0147153. eCollection 2016. PMID: 26799322; PMCID: PMC4723120.

38. Shinde A, Berhane H, Rhieu BH, Kalash R, Xu K, Goff J, Epperly MW, Franicola D, Zhang X, Dixon T, Shields D, **Wang H**, Wipf P, Parmar K, Guinan E, Kagan V, Tyurin V, Ferris RL, Zhang X, Li S, Greenberger JS. Intraoral Mitochondrial-Targeted GS-Nitroxide, JP4-039, Radioprotects Normal Tissue in Tumor-Bearing Radiosensitive Fancd2(-/-) (C57BL/6) Mice. *Radiat Res*. 2016 Feb;185(2):134-50. PMID: 26789701; PMCID: PMC4773657.
39. Gomez-Casal R, Epperly MW, **Wang H**, Proia DA, Greenberger JS, Levina V. Radioresistant human lung adenocarcinoma cells that survived multiple fractions of ionizing radiation are sensitive to HSP90 inhibition. *Oncotarget*. 2015 Dec 29;6(42):44306-22. PMID: 26517240; PMCID: PMC4792558.
40. Mehta K, Appleman L, **Wang H**, Tarhini AA, Parikh RA. Impact of annual hospital volume of high dose interleukin-2 infusions on in-patient mortality in patients with melanoma and renal cell carcinoma. *Journal for ImmunoTherapy of Cancer*. Nov 2015 3(Suppl 2):P234. DOI: 10.1186/2051-1426-3-S2-P234.
41. Dickson R, Kim JO, Huq MS, Bednarz G, Suyama J, Yealy DM, **Wang H**, Greenberger JS. A Mobile Alert System for Preparing the Delivery of Radiation Mitigators. *In Vivo*. 2015 Sep-Oct;29(5):505-13. PMID: 26359406.
42. Gomez-Casal R, Bhattacharya C, Epperly MW, Basse PH, **Wang H**, Wang X, Proia DA, Greenberger JS, Socinski MA, Levina V. The HSP90 Inhibitor Ganetespib Radiosensitizes Human Lung Adenocarcinoma Cells. *Cancers (Basel)*. 2015 May 22;7(2):876-907. PMID: 26010604; PMCID: PMC4491689.
43. Maxwell JH, Rath TJ, Byrd JK, Albergotti WG, **Wang H**, Duvvuri U, Kim S, Johnson JT, Branstetter BF 4th, Ferris RL. Accuracy of computed tomography to predict extracapsular spread in p16-positive squamous cell carcinoma. *The Laryngoscope*. 2015 Jul;125(7):1613-8. PMID: 25946149.
44. Chauvin JM, Pagliano O, Fourcade J, Sun Z, **Wang H**, Sander C, Kirkwood JM, Chen TH, Maurer M, Korman AJ, Zarour HM. TIGIT and PD-1 impair tumor antigen-specific CD8⁺ T cells in melanoma patients. *The Journal of Clinical Investigation*. 2015 May 1; 125 (5):2046-58. PMID: 25866972.
45. **Wang H**, Zhang X. Confidence Band for the Difference between Two Direct Adjusted Survival Curves. *Journal of Statistical Software* 2016. 70: 1-17
46. Gill BS, Beriwal S, Rajagopalan MS, **Wang H**, Hodges K, Greenberger JS. Quantitative evaluation of radiation oncologists' adaptability to lower reimbursing treatment programs. *Practical Radiation Oncology*. 2015 Jul-Aug;5(4):267-73. PMID: 25544552.
47. Rhieu BH, Shinde A, Epperly MW, Dixon T, **Wang H**, Chaillet R, Greenberger JS. Organ-specific responses of total body irradiated doxycycline-inducible manganese superoxide dismutase Tet/Tet mice. *In Vivo*. 2014 Nov-Dec;28(6):1033-43. PMID: 25398796; PMCID: PMC6436100.
48. Shinde A, Epperly MW, Cao S, Holt D, Goff J, Shields D, Franicola D, Wipf P, **Wang H**, Greenberger JS. Improved hematopoiesis in GS-nitroxide (JP4-039)-treated mouse long-term bone marrow cultures and radioresistance of derived bone marrow stromal cell lines. *In Vivo*. 2014 Sep-Oct;28(5):699-708. PMID: 25189880; PMCID: PMC6477534.

49. Ling DC, Kabolizadeh P, Heron DE, Ohr JP, **Wang H**, Johnson J, Kubicek GJ. Incidence of hospitalization in patients with head and neck cancer treated with intensity-modulated radiation therapy. *Head & Neck*. 2015 Dec;37(12):1750-5. PMID: 24986324.
50. Shinde A, Epperly MW, Cao S, Franicola D, Shields D, **Wang H**, Wipf P, Sprachman MM, Greenberger JS. Effects of the bifunctional sulfoxide MMS350, a radiation mitigator, on hematopoiesis in long-term bone marrow cultures and on radioresistance of marrow stromal cell lines. *In Vivo*. 2014 Jul-Aug;28(4):457-65. PMID: 24982210; PMCID: PMC6591577.
51. Rhieu BH, Epperly MW, Cao S, Franicola D, Shields D, Goff J, **Wang H**, Greenberger JS. Increased hematopoiesis in long-term bone marrow cultures and reduced irradiation-induced pulmonary fibrosis in Von Willebrand factor homologous deletion recombinant mice. *In Vivo*. 2014 Jul-Aug;28(4):449-56. PMID: 24982209; PMCID: PMC6591578.
52. Rhieu BH, Epperly MW, Cao S, Goff J, Shields D, Franicola D, **Wang H**, Greenberger JS. Improved longevity of hematopoiesis in long-term bone marrow cultures and reduced irradiation-induced pulmonary fibrosis in Toll-like receptor-4 deletion recombinant-negative mice. *In Vivo*. 2014 Jul- Aug;28(4):441-8. PMID: 24982208; PMCID: PMC6436103.
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2. Books and Book Chapters

Wang H. Sign Test. In: Salkind NJ, editor. *Encyclopedia of Research Design*. Newbury Park, CA: Sage Publications, 2010.

3. Published Proceedings

Chen J, **Wang H**. On the confidence limits for the mean of exponential distribution in the life tests with fixed stopping time. *Proceedings of the Second International Conference on Reliability, Maintainability and Safety*. International Academic Publishers. 1994: 307-311.

7. Presentations

1. **Wang H**. Inference for the Power Variance Function Frailty Model. Poster presented at: Joint Statistical Meetings; 2003 Aug; San Francisco, CA.

2. **Wang H.** Analysis of SMAD3 (+/+, -/-, +/-) Cell. Presented at: Biostatistics Seminar; 2005 Oct; University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA.
3. **Wang H.** Comparison of Storer's and mTPI Designs with Simulation. Presented at: JSM 2014; 2014 Aug 2-7; Boston, MA
4. **Wang H.** Metrics for comparison of phase I dose-finding designs Contributed Oral Presentation at: Joint Statistical Meetings; 2015 Aug; Seattle, WA.
5. **Wang H** and Yao Y. Simulation Study of Several Bayesian Approaches to Phase I Clinical Trials. Oral presentation in contributed papers session "Bayesian Methods, Clinical Trials and Biopharmaceutical Applications". ENAR spring meeting, 2017 Mar; Washington, DC.

SERVICE

1. Service to School and University

2006 - Present	The UPMC HCC protocol review committee (PRC, standing)	Statistical Reviewer (appointed)
2011 - Present	UPMC HCC Department of Radiation Oncology Data and Safety Monitoring Committee (standing)	Committee member (appointed)
2013 - Present	UPMC HCC Prostate/Renal Data and Safety Monitoring Committee (standing)	Committee member (appointed)
2014 – Present	GSPH Dean's Day Judging Group (ad hoc)	Judge (appointed)
2015 - 2016	Department of Biostatistics Web Committee (standing)	Committee member (appointed)
2019 - Present	UPMC HCC Melanoma-Sacoma Data and Safety Monitoring Committee (standing)	Committee member (appointed)
2022 - Present	UPMC HCC Lung Data and Safety Monitoring Committee (standing)	Committee member (appointed)

2. Service to Field of Scholarship

a. Editorial Boards, Editorships

Date	Position	Organization
10/20/2014 - Present	Member	Austin Biometrics and Biostatistics

b. Manuscript and Other Document/Publication Review

Dates	Journal Title
2005	Preventive Medicine
2006	Annals of Surgical Oncology
2008-Present	Journal of Clinical Oncology
2014	Computational Statistics and Data Analysis
2015	Austin Biometrics and Biostatistics
2016, 2017, 2021	International Journal of Radiation Oncology, Biology, Physics
2016	Current Cancer Drug Targets
2016, 2018	Communications in Statistics - Theory and Methods
2017	Computational and Mathematical Methods in Medicine
2018	Journal of Probability and Statistics
2018	Toxicology
2018-2020	JAMA Oncology
2019	International Journal of Hyperthermia
2020	Pharmacology
2020	PLOS ONE
2020	Bioengineered
2020	Frontiers
2020	Genome Medicine
2021	Nature Communications
2021	JAMA Network Open
2022	Cytotherapy
2022	PNAS

c. Study Sections, Review Panels, and Advisory Boards

Date	Position	Organization and Nature of Activity
2012	Statistical Reviewer	Bankhead-Coley Cancer Research Program, Managed by the Florida Department of Health. New Investigator Research (NIR) grant review
2021	Statistical Reviewer	Traumatic Brain Injury and Psychological Health Research Program on the Detection, Diagnosis, and Prognosis - 1 (DDP-1) panel. Congressionally Directed Medical Research Programs (CDMRP) of DoD.

d. Leadership in Scholarly and Professional Organizations and Honorary Societies**3. Service for Practice and Policy-Making, including Consultantships**

a. Governmental Organizations

b. Non-Governmental and Community-Based Organizations

Date	Position	Type of Service and/or Organization
2006 - 2009	Member	UPMC Hillman Writing Group