



## **CURRICULUM VITAE**

**Shenyang Fang, MD, PhD**

### **PRESENT TITLE AND AFFILIATION**

#### **Primary Appointment**

Associate Professor, Department of Surgical Oncology - Research, The University of Texas  
MD Anderson Cancer Center, Houston, TX

#### **Dual/Joint/Adjunct Appointment**

N/A

### **CITIZENSHIP**

China, U.S. Permanent Resident

### **OFFICE ADDRESS**

The University of Texas MD Anderson Cancer Center  
1515 Holcombe Blvd  
Unit Number: 174  
Houston, TX 77030  
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### **EDUCATION**

#### **Degree-Granting Education**

Tongji Medical College of Huazhong University of Science and Technology, Wuhan, Hubei,  
China, MD, 1994, Preventive Medicine

The Fourth Military Medical University, Xi'an, Shaanxi, China, MS, 1999, Epidemiology

The University of Texas School of Public Health, Houston, TX, MS, 2004, Biostatistics

The University of Texas School of Public Health, Houston, TX, PHD, 2008, Biostatistics

#### **Postgraduate Training**

Postdoc, Statistical Genetics, The University of Texas MD Anderson Cancer Center, Houston, TX,  
2009-2011

### **CREDENTIALS**

#### **Board Certification**

N/A

#### **Licensures**

##### **Active**

N/A

##### **Inactive**

N/A

### **EXPERIENCE/SERVICE**

#### **Academic Appointments**

Editor, Chinese Journal of School of Health, Bengbu, China, 1994-1996

Assistant Professor, Epidemiology (Cost-effectiveness analysis of hepatitis B vaccination programs using decision-tree models), Beijing Institute of Microbiology and Epidemiology, Beijing, China, 1999-2002

Instructor, Department of Genetics, The University of Texas MD Anderson Cancer Center, Houston, TX, 2011-2012

Assistant Professor, Department of Surgical Oncology - Research, The University of Texas MD Anderson Cancer Center, Houston, TX, 2012-2019

Associate Professor, Department of Surgical Oncology - Research, The University of Texas MD Anderson Cancer Center, Houston, TX, 2019-present

**Administrative Appointments/Responsibilities**

N/A

**Other Appointments/Responsibilities**

N/A

**Endowed Positions**

N/A

**Consultantships**

N/A

**Military or Other Governmental Service**

N/A

**Institutional Committee Activities**

N/A

**HONORS AND AWARDS**

The first prize in student practicum, Tongji Medical University, 1992

The CLASS scholarship, Tongji Medical University, 1993

POSTER FINALIST for Trainee Research Day 2010, The University of Texas MD Anderson Cancer Center, 2010

**RESEARCH**

**Grants and Contracts**

**Funded**

Co-investigator, 10%, Integration of Clinical and Molecular Biomarkers for Melanoma Survival, 1 P01 CA206980-01, NIH/NCI, 7/1/2017-6/30/2022, \$9,447,902.

Principal Investigator, The skin microbiome and cutaneous melanoma, Institutional Research Grant, MD Anderson Cancer Center, 1/1/2018-12/31/2019, \$75,000.

**Pending**

N/A

**Other**

N/A

**Completed**

Principal Investigator, 1.5 months, Genetic polymorphisms of IL-12p35 and IL-23p19 in melanoma progression, 5 P50 CA093459 07(PC-CDP 3), NIH/NCI, 9/1/2011-8/31/2012, \$25,000 (\$25,000/year)

Principal Investigator, 10%, C-reactive protein and melanoma outcomes, 5 P50 CA093459 08(DRP), NIH/NCI, 9/1/2012-4/30/2014, \$25,000 (\$25,000/year)

Principal Investigator, 25%, Genetic determinants of Breslow tumor thickness and their impact on melanoma progression, 5 R03CA173792-02, NIH/NCI, 1/1/2013-12/31/2014, \$100,000 (\$50,000/year)

#### Protocols

##### Funded

N/A

##### Unfunded

N/A

#### Patents and Technology Licenses

##### Patents

N/A

##### Technology Licenses

N/A

#### Grant Reviewer/Service on Study Sections

2016-present National Science Center (NCN panel NZ7), Poland

2018-present National Science Foundation, China

## PUBLICATIONS

### Peer-Reviewed Original Research Articles

1. Su J, **Fang S**, Li Y. Analysis of Related Factors of Medical Care Costs Per Hospitalized Day for Viral Hepatitis Cases among Military Population. Journal of the Fourth Military Medical University 21(1):24-26, 2/1999.
2. **Fang S**. Decision Analysis of Hepatitis B Vaccination. Journal of Preventive Medicine of Chinese People's Liberation Army 17(2):153-156, 4/1999.
3. **Fang S**, Li Y, Su J. Analysis of Factors Influencing Medical Care Costs of Hepatitis Cases among Military Population. Chinese Journal of Hospital Statistics 6(3):135-138, 6/1999.
4. Su J, **Fang S**, Xu D. Analysis of Medical Care Costs and their related factors of Hepatitis Cases among Military Population. Journal of the Fourth Military Medical University 20(7):590-592, 7/1999.
5. Su J, **Fang S**, Xu D. Decision-Making Analysis of Hepatitis A Vaccination Strategy among Our Armies. China Public Health 15(suppl):1158-1161, 12/1999.
6. **Fang S**, Su J, Li Y. Survey and Analysis of Viral Hepatitis incidence between 1995-1997 in troops stationed in Shaanxi. Journal of the Fourth Military Medical University 20(6):472-474, 12/1999.
7. **Fang S**, Li Y, Su J. Screening and Determination of the Most Cost Effective Strategy for Test of Hepatitis B Virus Markers among PLA. China Public Health 16(7):579-581, 7/2000.
8. **Fang S**, Li Y, Su J. Cost-benefit Analysis of Hepatitis A Vaccination in Military Population. Journal of Preventive Medicine of Chinese People's Liberation Army 18(4):251-253, 8/2000.
9. **Fang S**, Li Y, Su J. Investigation of Cost Caused by Hepatitis B in the Army. Chinese Journal of Hospital Statistics 7(4):206-209, 8/2000.
10. Ba J, Cao W, **Fang S**. A meta-analysis of HV infection typing among HFRS patients in China. Journal of Chinese Medical Practice 2(11):16-19, 11/2003.
11. Du XL, Chan W, Giordano S, Geraci JM, Delclos GL, Burau K, **Fang S**. Variation in modes of chemotherapy administration for breast carcinoma and association with hospitalization for chemotherapy-related toxicity. Cancer 104(5):913-24, 9/2005. PMCID: PMC2566845.
12. Du XL, Lairson DR, Begley CE, **Fang S**. Temporal and geographic variation in the use of hematopoietic growth factors in older women receiving breast cancer chemotherapy: findings from a large population-based cohort. J Clin Oncol 23(34):8620-8, 12/2005. PMCID: PMC2572993.
13. Du XL, **Fang S**, Coker AL, Sanderson M, Aragaki C, Cormier JN, Xing Y, Gor BJ, Chan W. Racial disparity and socioeconomic status in association with survival in older men with

- local/regional stage prostate carcinoma: findings from a large community-based cohort. *Cancer* 106(6):1276-85, 3/2006. PMID: 16475208.
14. Coker AL, Du XL, **Fang S**, Eggleston KS. Socioeconomic status and cervical cancer survival among older women: findings from the SEER-Medicare linked data cohorts. *Gynecol Oncol* 102(2):278-84, 8/2006. e-Pub 1/2006. PMID: 16434087.
  15. Berrios-Rivera JP, **Fang S**, Cabanillas ME, Cabanillas F, Lu H, Du XL. Variations in chemotherapy and radiation therapy in a large nationwide and community-based cohort of elderly patients with non-Hodgkin lymphoma. *Am J Clin Oncol* 30(2):163-71, 4/2007. PMID: 17414466.
  16. Cabanillas ME, Lu H, **Fang S**, Du XL. Elderly patients with non-Hodgkin lymphoma who receive chemotherapy are at higher risk for osteoporosis and fractures. *Leuk Lymphoma* 48(8):1514-21, 8/2007. PMID: 17701582.
  17. Du XL, **Fang S**, Vernon SW, El-Serag H, Shih YT, Davila J, Rasmus ML. Racial disparities and socioeconomic status in association with survival in a large population-based cohort of elderly patients with colon cancer. *Cancer* 110(3):660-9, 8/2007. PMID: 17582625.
  18. Patt DA, Duan Z, **Fang S**, Hortobagyi GN, Giordano SH. Acute myeloid leukemia after adjuvant breast cancer therapy in older women: understanding risk. *J Clin Oncol* 25(25):3871-6, 9/2007. e-Pub 7/2007. PMID: 17664457.
  19. Rohatgi N, Du XL, Coker AL, Moye LA, Wang M, **Fang S**. Chemotherapy and survival for patients with multiple myeloma: findings from a large nationwide and population-based cohort. *Am J Clin Oncol* 30(5):540-8, 10/2007. PMID: 17921717.
  20. Du XL, **Fang S**, Meyer TE. Impact of treatment and socioeconomic status on racial disparities in survival among older women with breast cancer. *Am J Clin Oncol* 31(2):125-32, 4/2008. PMID: 18391595.
  21. Badgwell BD, Giordano SH, Duan ZZ, **Fang S**, Bedrosian I, Kuerer HM, Singletary SE, Hunt KK, Hortobagyi GN, Babiera G. Mammography before diagnosis among women age 80 years and older with breast cancer. *J Clin Oncol* 26(15):2482-8, 5/2008. e-Pub 4/2008. PMID: 18427152.
  22. Giordano SH, **Fang S**, Duan Z, Kuo YF, Hortobagyi GN, Goodwin JS. Use of intravenous bisphosphonates in older women with breast cancer. *Oncologist* 13(5):494-502, 5/2008. PMID: 18515734.
  23. Liu L, Coker AL, Du XL, Cormier JN, Ford CE, **Fang S**. Long-term survival after radical prostatectomy compared to other treatments in older men with local/regional prostate cancer. *J Surg Oncol* 97(7):583-91, 6/2008. PMID: 18381603.
  24. Srokowski TP, **Fang S**, Duan Z, Buchholz TA, Hortobagyi GN, Goodwin JS, Giordano SH. Completion of adjuvant radiation therapy among women with breast cancer. *Cancer* 113(1):22-9, 7/2008. PMID: 18442124.
  25. Du XL, Sun CC, Milam MR, Bodurka DC, **Fang S**. Ethnic differences in socioeconomic status, diagnosis, treatment, and survival among older women with epithelial ovarian cancer. *International Journal of Gynecological Cancer* 18(4):660-669, 7/2008.
  26. Buchholz TA, Woodward WA, Duan Z, **Fang S**, Oh JL, Tereffe W, Strom EA, Perkins GH, Yu TK, Hunt KK, Meric-Bernstam F, Hortobagyi GN, Giordano SH. Radiation use and long-term survival in breast cancer patients with T1, T2 primary tumors and one to three positive axillary lymph nodes. *Int J Radiat Oncol Biol Phys* 71(4):1022-7, 7/2008. e-Pub 1/2008. PMID: 18234447.
  27. Wang M, Burau KD, **Fang S**, Wang H, Du XL. Ethnic variations in diagnosis, treatment, socioeconomic status, and survival in a large population-based cohort of elderly patients with non-Hodgkin lymphoma. *Cancer* 113(11):3231-41, 12/2008. PMID: 18937267.
  28. Srokowski TP, **Fang S**, Hortobagyi GN, Giordano SH. Impact of diabetes mellitus on complications and outcomes of adjuvant chemotherapy in older patients with breast cancer. *J Clin Oncol* 27(13):2170-6, 5/2009. e-Pub 3/2009. PMID: PMC2674004.
  29. **Fang S**, Pinney SM, Bailey-Wilson JE, de Andrade MA, Li Y, Kupert E, You M, Schwartz AG, Yang P, Anderson MW, Amos CI. Ordered subset analysis identifies loci influencing lung cancer risk on chromosomes 6q and 12q. *Cancer Epidemiol Biomarkers Prev* 19(12):3157-66, 12/2010. e-Pub 10/2010. PMID: PMC3249234.

30. **Fang S**, Krahe R, Lozano G, Han Y, Chen W, Post SM, Zhang B, Wilson CD, Bachinski LL, Strong LC, Amos CI. Effects of MDM2, MDM4 and TP53 codon 72 polymorphisms on cancer risk in a cohort study of carriers of TP53 germline mutations. *PLoS One* 5(5):e10813, 2010. e-Pub 5/2010. PMID: PMC2877078.
31. Chavez-MacGregor M, Zhao H, **Fang S**, Srokowski TP, Hortobagyi GN, Giordano SH. Complications associated with erythropoietin-stimulating agents in patients with metastatic breast cancer: a Surveillance, Epidemiology, and End Results-Medicare study. *Cancer* 117(16):3641-9, 8/2011. e-Pub 2/2011. PMID: 21656514.
32. Barrett JH, Iles MM, Harland M, Taylor JC, Aitken JF, Andresen PA, Akslen LA, Armstrong BK, Avril MF, Azizi E, Bakker B, Bergman W, Bianchi-Scarrà G, Bressac-de Paillerets B, Calista D, Cannon-Albright LA, Corda E, Cust AE, Debniak T, Duffy D, Dunning AM, Easton DF, Friedman E, Galan P, Ghiorzo P, Giles GG, Hansson J, Hocevar M, Höiom V, Hopper JL, Ingvar C, Janssen B, Jenkins MA, Jönsson G, Kefford RF, Landi G, Landi MT, Lang J, Lubinski J, Mackie R, Malvey J, Martin NG, Molven A, Montgomery GW, van Nieuwpoort FA, Novakovic S, Olsson H, Pastorino L, Puig S, Puig-Butille JA, Randerson-Moor J, Snowden H, Tuominen R, Van Belle P, van der Stoep N, Whiteman GC, Zelenika D, Han J, **Fang S**, Lee JE, Wei Q, Lathrop GM, Gillanders EM, Brown KM, Goldstein AM, Kanetsky PA, Mann GJ, Macgregor S, Elder DE, Amos CI, Hayward NK, Gruis NA, Demenais F, Bishop JA, Bishop DT, GenoMEL Consortium. Genome-wide association study identifies three new melanoma susceptibility loci. *Nat Genet* 43(11):1108-13, 11/2011. e-Pub 10/2011. PMID: PMC3251256.
33. Chavez-MacGregor M, Zhao H, Kroll M, **Fang S**, Zhang N, Hortobagyi GN, Buchholz TA, Shih YC, Giordano SH. Risk factors and incidence of thromboembolic events (TEEs) in older men and women with breast cancer. *Annals of Oncology* 22(11):2394-402, 11/2011.
34. Amos CI, Wang LE, Lee JE, Gershenwald JE, Chen WV, **Fang S**, Kosoy R, Zhang M, Qureshi AA, Vattathil S, Schacherer CW, Gardner JM, Wang Y, Bishop DT, Barrett JH, GenoMEL Investigators, MacGregor S, Hayward NK, Martin NG, Duffy DL, Q-Mega Investigators, Mann GJ, Cust A, Hopper J, AMFS Investigators, Brown KM, Grimm EA, Xu Y, Han Y, Jing K, McHugh C, Laurie CC, Doheny KF, Pugh EW, Seldin MF, Han J, Wei Q. Genome-wide association study identifies novel loci predisposing to cutaneous melanoma. *Hum Mol Genet* 20(24):5012-23, 12/2011. e-Pub 9/2011. PMID: PMC3298855.
35. **Fang S**, Krahe R, Bachinski LL, Zhang B, Amos CI, Strong LC. Sex-specific effect of the TP53 PIN3 polymorphism on cancer risk in a cohort study of TP53 germline mutation carriers. *Hum Genet* 130(6):789-94, 12/2011. e-Pub 6/2011. PMID: 21688173.
36. **Fang S**, Fang X, Xiong M. Psoriasis prediction from genome-wide SNP profiles. *BMC Dermatol* 11:1, 2011. e-Pub 1/2011. PMID: PMC3022824.
37. Gorlov IP, Logothetis CJ, **Fang S**, Gorlova OY, Amos CI. Building a Statistical Model for Predicting Cancer Genes. *PLOS One* 7(11):e49175, doi:10.1371/journal.pone.0049175, 2012. PMID: PMC3499550.
38. Bodelon C, Pfeiffer RM, Bollati V, Debbache J, Calista D, Ghiorzo P, Fagnoli MC, Bianchi-Scarra G, Peris K, Hoxha M, Hutchinson A, Burdette L, Burke L, **Fang S**, Tucker MA, Goldstein AM, Lee JE, Wei Q, Savage SA, Yang XR, Amos CI, MariLandi MT. On the Interplay of Telomeres, Nevi and the Risk of Melanoma. *PLOS ONE* 7(12):e52466, doi:10.1371/journal.pone.0052466, 2012. e-Pub 2012. PMID: PMC3531488.
39. Iles MM, Law MH, Stacey SN, Han J, **Fang S**, Pfeiffer R, Harland M, Macgregor S, Taylor JC, Aben KK, Akslen LA, Avril MF, Azizi E, Bakker B, Benediktsdottir KR, Bergman W, Scarrà GB, Brown KM, Calista D, Chaudru V, Fagnoli MC, Cust AE, Demenais F, de Waal AC, Debniak T, Elder DE, Friedman E, Galan P, Ghiorzo P, Gillanders EM, Goldstein AM, Gruis NA, Hansson J, Helsing P, Hocevar M, Höiom V, Hopper JL, Ingvar C, Janssen M, Jenkins MA, Kanetsky PA, Kiemeny LA, Lang J, Lathrop GM, Leachman S, Lee JE, Lubinski J, Mackie RM, Mann GJ, Martin NG, Mayordomo JI, Molven A, Mulder S, Nagore E, Novakovic S, Okamoto I, Olafsson JH, Olsson H, Pehamberger H, Peris K, Grasa MP, Planelles D, Puig S, Puig-Butille JA, Randerson-Moor J, Requena C, Rivoltini L, Rodolfo M, Santinami M, Sigurgeirsson B, Snowden H, Song F, Sulem P, Thorisdottir K, Tuominen R, Van Belle P, van der Stoep N, van Rossum MM, Wei Q, Wendt J, Zelenika D, Zhang M, Landi MT, Thorleifsson G, Bishop DT, Amos CI, Hayward NK, Stefansson K, Bishop JA,

- Barrett JH, GenoMEL Consortium, Q-MEGA and AMFS Investigators. A variant in FTO shows association with melanoma risk not due to BMI. *Nat Genet* 45(4):428-32, 432e1, 4/2013. e-Pub 3/2013. PMCID: PMC3640814.
40. Park JY, Amankwah EK, Anic GM, Lin HY, Walls B, Park H, Krebs K, Madden M, Maddox K, Marzban S, **Fang S**, Chen W, Lee JE, Wei Q, Amos CI, Messina JL, Sondak VK, Sellers TA, Egan KM. Gene variants in angiogenesis and lymphangiogenesis and cutaneous melanoma progression. *Cancer Epidemiol Biomarkers Prev* 22(5):827-34, 5/2013. e-Pub 3/2013. PMCID: PMC3708315.
  41. **Fang S**, Zhang M, Wang L, Wei Q, Amos CI, Lee JE. Joint effect of multiple common SNPs predicts melanoma susceptibility. *PLOS One*, doi:10.1371/journal.pone.0085642. e-Pub 12/2013. PMCID: PMC3877376.
  42. Xiao F, Ma J, Cai G, **Fang S**, Lee JE, Wei Q, Amos CI. Natural and orthogonal model for estimating gene-gene interactions applied to cutaneous melanoma. *Hum Genet* 133(5):559-74, 5/2014. e-Pub 11/2013. PMID: 24241239.
  43. Song F, Amos CI, Lee JE, Lian CG, **Fang S**, Liu H, MacGregor S, Iles MM, Lindeman NI, Montgomery GW, Duffy DL, Cust AE, Jenkins MA, Whiteman DC, Kefford RF, Giles GG, Armstrong BK, Aitken JF, Hopper JL, Brown KM, Martin NG, Mann GJ, Bishop DT, Newton Bishop JA, the GenoMEL consortium, Kraft P, Qureshi AA, Kanetsky PA, Hayward NK, Hunter DJ, Wei Q, Han J. Identification of a melanoma susceptibility locus and somatic mutation in TET2. *Carcinogenesis*. e-Pub 6/2014. PMID: 24980573.
  44. Yin J, Liu H, Liu Z, Wang LE, Chen WV, Zhu D, Amos CI, **Fang S**, Lee JE, Wei Q. Genetic variants in Fanconi Anemia Pathway Genes BRCA2 and FANCA Predict Melanoma Survival. *J Invest Dermatol*. e-Pub 9/2014. PMID: 25243787.
  45. **Fang S**, Wang Y, Chun YS, Liu H, Ross MI, Gershenwald JE, Cormier JN, Royal RE, Lucci A, Schacherer CW, Reveille JD, Sui D, Bassett RL, Wang LE, Wei Q, Amos CI, Lee JE. The relationship between blood IL-12p40 level and melanoma progression. *Int J Cancer*. e-Pub 9/2014. PMID: 25196740.
  46. Yang L, Lu X, Deng J, Zhou Y, Huang D, Qiu F, Yang X, Yang R, Fang W, Ran P, Zhong N, Zhou Y, **Fang S**, Lu J. Risk factors shared by COPD and lung cancer and mediation effect of COPD: two center case-control studies. *Cancer Causes Control*. 2015 Jan;26(1):11-24. doi: 10.1007/s10552-014-0475-2. Epub 2014 Dec 7.
  47. Yuan H, Liu H, Liu Z, Zhu D, Amos CI, **Fang S**, Lee JE, Wei Q. Genetic variants in Hippo pathway genes YAP1, TEAD1 and TEAD4 are associated with melanoma-specific survival. *Int J Cancer*. e-Pub 1/2015. PMID: 25628125.
  48. **Fang S**, Wang Y, Sui D, Liu H, Ross MI, Gershenwald JE, Cormier JN, Royal RE, Lucci A, Schacherer CW, Gardner JM, Reveille JD, Bassett RL, Wang LE, Wei Q, Amos CI, Lee JE. C-reactive protein as a marker of melanoma progression. *J Clin Oncol*. e-Pub 3/2015. PMID: 25779565. \*Accompanied by JCO commentary. Li Z, Feng J, Sun X. Is c-reactive protein a specific marker in melanoma? *J Clin Oncol*. 2015 Nov 1;33(31):3673-4. PMID: 26240228 \*Accompanied by NEJM news. Tsao H. C-reactive protein and melanoma outcome. *NEJM Journal Watch* 2015 May 20.
  49. **Fang S\***, Wang Y, Chun YS, Liu H, Ross MI, Gershenwald JE, Cormier JN, Royal RE, Lucci A, Schacherer CW, Reveille JD, Chen W, Sui D, Bassett RL, Wang LE, Wei Q, Amos CI, Lee JE. Association of Common Genetic Polymorphisms with Melanoma Patient IL-12p40 Blood Levels, Risk and Outcomes. *J Invest Dermatol*. e-Pub 4/2015. PMID: 25848976. \*Corresponding author.
  50. Brossard M, **Fang S(Co-first)**, Vaysse A, Wei Q, Chen WV, Mohamdi H, Maubec E, Lavielle N, Galan P, Lathrop M, Avril MF, Lee JE, Amos CI, Demenais F. Integrated pathway and epistasis analysis reveals interactive effect of genetic variants at TERF1 and AFAP1L2 loci on melanoma risk. *Int J Cancer*. e-Pub 4/2015. PMID: 25892537.
  51. Zhang W, Liu H, Liu Z, Zhu D, Amos CI, **Fang S**, Lee JE, Wei Q. Functional Variants in Notch Pathway Genes NCOR2, NCSTN, and MAML2 Predict Survival of Patients with Cutaneous Melanoma. *Cancer Epidemiol Biomarkers Prev*. e-Pub 5/2015. PMID: 25953768.
  52. Law MH, Bishop DT, Lee JE, Brossard M, Martin NG, Moses EK, Song F, Barrett JH, Kumar R, Easton DF, Pharoah PD, Swerdlow AJ, Kypreou KP, Taylor JC, Harland M, Randerson-Moor J, Akslen LA, Andresen PA, Avril MF, Azizi E, Scarrà GB, Brown KM, D'bnia T, Duffy

- DL, Elder DE, **Fang S**, Friedman E, Galan P, Ghiorzo P, Gillanders EM, Goldstein AM, Gruis NA, Hansson J, Helsing P, Hocevar M, Höiom V, Ingvar C, Kanetsky PA, Chen WV, GenoMEL Consortium, Essen-Heidelberg Investigators, SDH Study Group, Q-MEGA and QTWIN Investigators, AMFS Investigators, ATHENS Melanoma Study Group, Landi MT, Lang J, Lathrop GM, Lubinski J, Mackie RM, Mann GJ, Molven A, Montgomery GW, Novakovic S, Olsson H, Puig S, Puig-Butlle JA, Qureshi AA, Radford-Smith GL, van der Stoep N, van Doorn R, Whiteman DC, Craig JE, Schadendorf D, Simms LA, Burdon KP, Nyholt DR, Pooley KA, Orr N, Stratigos AJ, Cust AE, Ward SV, Hayward NK, Han J, Schulze HJ, Dunning AM, Bishop JA, Demenais F, Amos CI, MacGregor S, Iles MM. Genome-wide meta-analysis identifies five new susceptibility loci for cutaneous malignant melanoma. *Nat Genet.* e-Pub 8/2015. PMID: 26237428.
53. Shen J, Gopalakrishnan V, Lee JE, **Fang S**, Zhao H. Mitochondrial DNA copy number in peripheral blood and melanoma risk. *PLoS One* 10(6):e0131649, 2015. e-Pub 6/2015. PMCID: PMC4482392.
  54. **Fang S**, Sui D, Wang Y, Liu H, Chiang YJ, Ross MI, Gershenwald JE, Cormier JN, Royal RE, Lucci A, Wargo J, Hu MI, Gardner JM, Reveille JD, Bassett RL, Wei Q, Amos CI, Lee JE. Association of Vitamin D Levels With Outcome in Patients With Melanoma After Adjustment For C-Reactive Protein. *J Clin Oncol.* e-Pub 3/2016. PMID: 27001565. \*Accompanied by JCO commentary. Sondak VK, McIver B, Kanetsky PA. Vitamin D and Melanoma: What Do We Tell Our Patients? *J Clin Oncol.* 2016 May 20;34(15):1713-4. PMID: 27044934.
  55. Yin J, Liu H, Yi X, Wu W, Amos CI, **Fang S**, Lee JE, Han J, Wei Q. Genetic Variants in the Vitamin D Pathway Genes VDBP and RXRA Modulate Cutaneous Melanoma Disease-Specific Survival. *Pigment Cell Melanoma Res* 29(2):176-85, 3/2016. e-Pub 1/2016. PMID: 26575331.
  56. Shen J, Wan J, Huff C, **Fang S**, Lee JE, Zhao H. Mitochondrial DNA 4977-base pair common deletion in blood leucocytes and melanoma risk. *Pigment Cell Melanoma Res.* e-Pub 3/2016. PMID: 26988264.
  57. **Fang S\***, Vaysse A, Brossard M, Wang Y, Deng D, Liu Q, Zhang P, Xu K, Li M, Feng R, Liu H, Dang Y, Chen W, Prieto V, Gershenwald JE, Ross MI, Matejka B, Malke J, Haydu LE, Reveille JD, Sui D, Bassett RL, Koshkina N, Avril MF, Lu M, Wei Q, Demenais F, Amos CI, Lee JE. Melanoma expression genes identified through genome-wide association study of Breslow tumor thickness. *J Invest Dermatol.* e-Pub 8/2016. PMID: 27506587. \*Corresponding author.
  58. Vaysse A, **Fang S(co-first)**, Brossard M, Wei Q, Chen WV, Mohamdi H, Vincent-Fetita L, Margaritte-Jeannin P, Lavielle N, Maubec E, Lathrop M, Avril MF, Amos CI, Lee JE, Demenais F. A comprehensive genome-wide analysis of melanoma Breslow thickness identifies interaction between CDC42 and SCIN genetic variants. *Int J Cancer* 139(9):2012-20, 11/2016. e-Pub 7/2016. PMID: 27347659.
  59. Karami S, Han Y, Pande M, Cheng I, Rudd J, Pierce BL, Nutter EL, Schumacher FR, Kote-Jarai Z, Lindstrom S, Witte JS, **Fang S**, Han J, Kraft P, Hunter DJ, Song F, Hung RJ, McKay J, Gruber SB, Chanock SJ, Risch A, Shen H, Haiman CA, Boardman L, Ulrich CM, Casey G, Peters U, Amin Al Olama A, Berchuck A, Berndt SI, Bezieau S, Brennan P, Brenner H, Brinton L, Caporaso N, Chan AT, Chang-Claude J, Christiani DC, Cunningham JM, Easton D, Eeles RA, Eisen T, Gala M, Gallinger SJ, Gayther SA, Goode EL, Grönberg H, Henderson BE, Houlston R, Joshi AD, Küry S, Landi MT, Le Marchand L, Muir K, Newcomb PA, Permuth-Wey J, Pharoah P, Phelan C, Potter JD, Ramus SJ, Risch H, Schildkraut J, Slattey ML, Song H, Wentzensen N, White E, Wiklund F, Zanke BW, Sellers TA, Zheng W, Chatterjee N, Amos CI, Doherty JA, GECCO and the GAME-ON Network: CORECT, DRIVE, ELLIPSE, FOCI, and TRICL. Telomere structure and maintenance gene variants and risk of five cancer types. *Int J Cancer* 139(12):2655-2670, 12/2016. e-Pub 9/2016. PMID: 27459707.
  60. Shen J, Song R, Wan J, Huff C, **Fang S**, Lee JE, Zhao H. Global methylation of blood leukocyte DNA and risk of melanoma. *Int J Cancer* 140(7):1503-1509, doi: 10.1002/ijc.30577, 4/2017. e-Pub 12/2016. PMID: 28006848.

61. Zhang W, Liu H, Yin J, Wu W, Zhu D, Amos CI, **Fang S**, Lee JE, Li Y, Han J, Wei Q. Genetic variants in the PIWI-piRNA pathway gene DCPA predict melanoma disease-specific survival. *Int J Cancer* 139(12):2730-2737. E-PUB 09/2016. PMID: 27578485.
62. Li H, Wang Y, Liu H, Shi Q, Xu Y, Wu W, Zhu D, Amos CI, **Fang S**, Lee JE, Han J, Wei Q. Genetic variants in the integrin signaling pathway genes predict cutaneous melanoma survival. *Int J Cancer* 140(6):1270-1279, doi: 10.1002/ijc.30545, 3/2017. e-Pub 12/2016. PMID: PMC5272783.
63. Luo L, Orlov I, Kanetsky PA, Thomas NE, **Fang S**, Lee JE, et al. (2017) No prognostic value added by vitamin D pathway SNPs to current prognostic system for melanoma survival. *PLoS One* 12(3):e0174234, 2017. e-Pub 3/2017. PMID: PMC5360355.
64. Telomeres Mendelian Randomization Collaboration, Haycock PC, Burgess S, Nounu A, Zheng J, Okoli GN, Bowden J, Wade KH, Timpson NJ, Evans DM, Willeit P, Aviv A, Gaunt TR, Hemani G, Mangino M, Ellis HP, Kurian KM, Pooley KA, Eeles RA, Lee JE, **Fang S**, Chen WV, Law MH, Bowdler LM, Iles MM, Yang Q, Worrall BB, Markus HS, Hung RJ, Amos CI, Spurdle AB, Thompson DJ, O'Mara TA, Wolpin B, Amundadottir L, Stolzenberg-Solomon R, Trichopoulou A, Onland-Moret NC, Lund E, Duell EJ, Canzian F, Severi G, Overvad K, Gunter MJ, Tumino R, Svenson U, van Rij A, Baas AF, Bown MJ, Samani NJ, van t'Hof FN, Tromp G, Jones GT, Kuivaniemi H, Elmore JR, Johansson M, McKay J, Scelo G, Carreras-Torres R, Gaborieau V, Brennan P, Bracci PM, Neale RE, Olson SH, Gallinger S, Li D, Petersen GM, Risch HA, Klein AP, Han J, Abnet CC, Freedman ND, Taylor PR, Maris JM, Aben KK, Kiemeny LA, Vermeulen SH, Wiencke JK, Walsh KM, Wrensch M, Rice T, Turnbull C, Litchfield K, Paternoster L, Standl M, Abecasis GR, SanGiovanni JP, Li Y, Mijatovic V, Sapkota Y, Low SK, Zondervan KT, Montgomery GW, Nyholt DR, van Heel DA, Hunt K, Arking DE, Ashar FN, Sotoodehnia N, Woo D, Rosand J, Comeau ME, Brown WM, Silverman EK, Hokanson JE, Cho MH, Hui J, Ferreira MA, Thompson PJ, Morrison AC, Felix JF, Smith NL, Christiano AM, Petukhova L, Betz RC, Fan X, Zhang X, Zhu C, Langefeld CD, Thompson SD, Wang F, Lin X, Schwartz DA, Fingerlin T, Rotter JI, Cotch MF, Jensen RA, Munz M, Dommisch H, Schaefer AS, Han F, Ollila HM, Hillary RP, Albagha O, Ralston SH, Zeng C, Zheng W, Shu XO, Reis A, Uebe S, Hüffmeier U, Kawamura Y, Otowa T, Sasaki T, Hibberd ML, Davila S, Xie G, Siminovich K, Bei JX, Zeng YX, Försti A, Chen B, Landi S, Franke A, Fischer A, Ellinghaus D, Flores C, Noth I, Ma SF, Foo JN, Liu J, Kim JW, Cox DG, Delattre O, Mirabeau O, Skibola CF, Tang CS, Garcia-Barcelo M, Chang KP, Su WH, Chang YS, Martin NG, Gordon S, Wade TD, Lee C, Kubo M, Cha PC, Nakamura Y, Levy D, Kimura M, Hwang SJ, Hunt S, Spector T, Soranzo N, Manichaikul AW, Barr RG, Kahali B, Speliotes E, Yerges-Armstrong LM, Cheng CY, Jonas JB, Wong TY, Fogh I, Lin K, Powell JF, Rice K, Relton CL, Martin RM, Davey Smith G. Association Between Telomere Length and Risk of Cancer and Non-Neoplastic Diseases: A Mendelian Randomization Study. *JAMA Oncol* 3(5):636-651, 5/2017. PMID: PMC5638008.
65. **Fang S\***, Wang Y, Dang Y, Gagel A, Ross MI, Gershenwald JE, Cormier JN, Wargo J, Haydu LE, Davies MA, McQuade JL, Sui D, Bassett RL, Reveille JD, Wei Q, Amos CI, Lee JE. Association between body mass index, C-reactive protein levels and melanoma patient outcome. *J Invest Dermatol* 137(8):1792-1795, 8/2017. e-Pub 4/2017. PMID: 28442307.  
\*Corresponding author.
66. Shi Q, Liu H, Han P, Li C, Wang Y, Wu W, Zhu D, Amos CI, **Fang S**, Lee JE, Han J, Wei Q. Genetic Variants in *WNT2B* and *BTRC* Predict Melanoma Survival. *J Invest Dermatol* 137(8):1749-1756, doi: 10.1016/j.jid.2017.04.023, 8/2017. e-Pub 5/2017. PMID: PMC5548422.
67. Liu S, Wang Y, Wu W, Zhu D, Amos CI, **Fang S**, Lee JE, Han J, Wei Q. Genetic variants in the genes encoding Rho GTPases and related regulators predict cutaneous melanoma-specific survival. *Int J Cancer* 141(4):721-730, doi: 10.1002/ijc.30785, 8/2017. e-Pub 6/2017. PMID: PMC5512872.
68. Li H, Wang Y, Liu H, Shi Q, Li H, Wu W, Zhu D, Amos CI, **Fang S**, Lee JE, Li Y, Han J, Wei Q. Genetic variants of PDGF signaling pathway genes predict cutaneous melanoma survival. *Oncotarget* 8(43):74595-74606, doi: 10.18632/oncotarget.20245, 8/2017. PMID: PMC5650365.



69. Xu Y, Wang Y, Liu H, Shi Q, Zhu D, Amos CI, **Fang S**, Lee JE, Hyslop T, Li X, Han J, Wei Q. Genetic variants in the metzincin metallopeptidase family genes predict melanoma survival. *Mol Carcinog* 57(1):22-31. E-Pub 8/2017. PMID: PMC5716892.
70. Li B, Wang Y, Xu Y, Liu H, Bloomer W, Zhu D, Amos CI, **Fang S**, Lee JE, Li X, Han J, Wei Q. Genetic variants in RORA and DNMT1 associated with cutaneous melanoma survival. *Int J Cancer*, doi: 10.1002/ijc.31243. [Epub ahead of print]. e-Pub 1/2018. PMID: 29313974.
71. McQuade JL, Daniel CR, Hess KR, Mak C, Wang DY, Rai RR, Park JJ, Haydu LE, Spencer C, Wongchenko M, Lane S, Lee D-Y, Kaper M, McKean M, Beckermann KE, Rubinstein SM, Rooney I, Musib L, Budha N, Hsu J, Nowicki TS, Avila A, Haas T, Puligandla M, Lee S, **Fang S**, Wargo JA, Gershenwald JE, Lee JE, Hwu P, Chapman PB, Sosman JA, Schadendorf D, Grob J-J, Flaherty KT, Walker D, Yan Y, McKenna E, Legos JJ, Carlino MS, Ribas A, Kirkwood JM, Long GV, Johnson DB, Menzies AM, Davies MA: Association of body-mass index and outcomes in patients with metastatic melanoma treated with targeted therapy, immunotherapy, or chemotherapy: a retrospective, multicohort analysis. *Lancet Oncol* 19(3):310-322, doi: 10.1016/S1470-2045(18)30078-0, 3/2018. e-Pub 2/2018. PMID: PMC5840029.
72. **Fang S\***, Xu T, Xiong M, Zhou X, Wang Y, Haydu LE, Ross MI, Gershenwald JE, Prieto VG, Cormier JN, Wargo J, Sui D, Wei Q, Amos CI, Lee JE. Role of immune response, inflammation and tumor immune response-related cytokines/chemokines in melanoma progression. *J Invest Dermatol* 2019 Jun 7. doi: 10.1016/j.jid.2019.03.1158. \* Corresponding author.
73. **Fang S\***, Lu J, Zhou X, Wang Y, Ross MI, Gershenwald JE, Cormier JN, Wargo J, Sui D, Amos CI, Lee JE. Functional annotation of melanoma risk loci identifies novel susceptibility genes. *Carcinogenesis*. 2019 Oct 21. pii: bgz173. doi: 10.1093/carcin/bgz173. [Epub ahead of print]. \* Corresponding author.

#### Invited Articles

1. **Fang S\***, Wang Y, Lu M, Dang Y, Li M, Koshkina N, Feng R, Liu H, Xu K, Sui D, Wei Q, Amos CI, Lee JE. Association of Inflammation-related Genetic Variants with Melanoma Development. *Journal of Experimental Dermatology and Research* 1(3):012, 5/2015. \* Corresponding author.

#### Editorials

N/A

#### Other Articles

N/A

#### Abstracts

1. Fang S, Fang X, Xiong M. Psoriasis prediction from genome-wide SNP profiles, The 59th Annual Meeting of the American Society of Human Genetics, Honolulu, 10/21/2009.
2. Fang S, Pinney SM, Bailey-Wilson JE, de Andrade MA, Li Y, Kupert E, You M, Schwartz AG, Yang P, Anderson MW, Amos CI. Ordered subset analysis identifies loci influencing lung cancer risk on chromosomes 6q and 12q. The 19th Annual Meeting of the International Genetic Epidemiology Society, 10/2010.
3. Fang S, Wang L, Gershenwald J, Chen W, Schacherer CW, Gardner JM, Wang Y, Bishop DT, Barrett JH, Grimm EA, McHugh C, Laurie C, Doherty KF, Pugh EW, Wei Q, Amos CI, Lee JE. Genome-Wide Association Study of Melanoma Progression and Blood Biomarkers (**Platform**). 12th International Congress of Human Genetics/61st ASHG Annual Meeting, 10/2011.
4. Fang S, Wang Y, Sui D, Liu H, Schacherer CW, Gardner JM, Ross MI, Gershenwald JE, Reveille JD, Wang L, Wei Q, Amos CI, Lee JE. C Reactive Protein as a Prognostic Marker in Melanoma Progression. The American Society of Human Genetics Conference, 10/2012.
5. Fang S, Han J, Zhang M, Wang L, Wei Q, Amos CI, Lee JE. Joint Effect of Multiple Common SNPs Predicts Melanoma Susceptibility. American Society of Human Genetics 63rd Annual Meeting, 10/2013.
6. Fang S, Wang Y, Deng D, Liu Q, Feng R, Xu K, Liu H, Ross MI, Gershenwald JE, Cormier JN, Royal, Lucci A, Wargo J, Schacherer CW, Reveille JD, GenoMEL group, Demenais F,

Wang L, Lu M, Wei Q, Amos CI, Lee JE. Genetic determinants of Breslow tumor thickness and their impact on melanoma progression. American Society of Human Genetics 64th Annual Meeting, 10/2014.

7. Fang S, Wang Y, Ross MI, Gershenwald JE, Cormier JN, Royal RE, Reveille JD, Wei Q, Amos CI, Lee JE. CDKN2A germline mutation and somatic mutation show opposite associations with clinical outcomes in melanoma patients. American Society of Human Genetics 67th Annual Meeting, 10/2017.

**Book Chapters**

N/A

**Books (edited and written)**

N/A

**Letters to the Editor**

1. Fang S, Wang Y, Amos CI, Lee JE. Reply to Z. Li et al. J Clin Oncol 33(31):3674-5, doi: 10.1200/JCO.2015.63.2133, 11/2015. e-Pub 8/2015. PMID: 26240223.

**Manuals, Teaching Aids, Other Teaching Publications**

N/A

**Other Publications**

N/A

**EDITORIAL AND REVIEW ACTIVITIES**

**Editor/Service on Editorial Board(s)**

Academic editor, PLOS ONE, 2014-present

**Member of Editorial Review Board**

Editorial Board Member, Advances in Public Health, 2013-present

Editorial Board Member, Jacobs Journal of Experimental Dermatology, 2014-present

**Journal Reviewer**

- 1, BMC-central, 2010
- 2, Carcinogenesis, 2011-present
- 4, International Journal of Cancer, 2011-present
- 5, Journal of investigative dermatology, 2011-present
- 1, American Journal of Human Genetics, 2012
- 4, PLOS ONE, 2012-present
- 1, Human Molecular Genetics, 2016
- 1, PLOS Genetics, 2016
- 3, Current Genomics, 2016-2018
- 1, Scientific Reports, 2017
- 2, Molecular Carcinogenesis, 2017-present
- 1, Gene, 2018
- 1, Journal of National Cancer Institute, 2018
- 1, OncoTargets and Therapy, 2019

**Other Editorial and Review Activities**

N/A

**TEACHING**

Teaching Within Current Institution -

**Formal Teaching**

**Courses Taught**

N/A

**Training Programs**

N/A

**Other Formal Teaching**

N/A

**Supervisory Teaching**

**Committees**

**Advisory Committees**

N/A

**Supervisory Committees**

N/A

**Examining Committees**

N/A

**Direct Supervision**

**Undergraduate and Allied Health Students**

N/A

**Medical Students**

N/A

**Graduate Students**

Yifang Dang, Bioinformatics, The University of Texas Health Science Center.

**Postdoctoral Research Fellows**

N/A

**Clinical Residents and Fellows**

N/A

**Other Supervisory Teaching**

N/A

**Teaching Outside Current Institution**

**Formal Teaching**

**Courses Taught**

N/A

**Training Programs**

Teaching assistant, Epidemiologic study using claims-based healthcare data, UTHSC,  
Course Number: PH2998  
Spring, 2/2005

**Other Formal Teaching**

N/A

**Supervisory Teaching**

**Committees**

**Advisory Committees**

N/A

**Supervisory Committees**

N/A

**Examining Committees**

N/A

**Direct Supervision**

**Undergraduate and Allied Health Students**

N/A

**Medical Students**

N/A

**Graduate Students**

N/A

**Postdoctoral Research Fellows**

N/A

**Clinical Residents and Fellows**

N/A

**Other Supervisory Teaching**

N/A

**CONFERENCES AND SYMPOSIA**

**Organization of Conferences/Symposia (Include chairing session)**

N/A

**Presentations at National or International Conferences**

**Invited**

N/A

**Other, Including Scientific Exhibitions**

1. Fang S, Su J, Li Y. Cost-effectiveness Analysis of Hepatitis A Vaccination, The Fourth Military Medical University, The Fourth Conference of Clinical Epidemiology, Xi'an, Shaanxi, China, 10/25/2000
2. Du XL, Fang S, Coker AL, Sanderson M, Aragaki C, Cormier JN, Xing Y, Gor BJ, Chan W. Racial Disparities and Socioeconomic Status in Association with Survival in Older Men with Local/Regional Stage Prostate Cancer, Academy Health Annual Meeting, Seattle, 6/25/2006
3. Du XL, Fang S, Meyer TE. Impact of Treatment and Socioeconomic Status on Racial Disparities in Survival among Older Women with Breast Cancer, Academy Health annual meeting, Orlando, 6/3/2007
4. Song S, Burau KD, Fang S, Wang H, Du XL, Wang L. Ethnic Variations in Diagnosis, Treatment, Socioeconomic Status and Survival in a Large Population-Based Cohort of Elderly Patients with Non-Hodgkin's Lymphoma, American Society of Hematology 50th Annual Meeting, San Francisco, 12/6/2008

**Seminar Invitations from Other Institutions**

Genetic Variants and Clinical Phenotypes for Melanoma Outcome, The Third Military Medical University, The Third Military Medical University, Chongqing, China, 5/2013

Genetic Epidemiology of Melanoma and Outcome Research. Wuhan University of Technology and Science, Wuhan, China, 7/2016

Genetic Determinants of Cutaneous Melanoma Predisposition & Progression. The University of Texas School of Public Health, Houston, Texas, USA, 01/2017

Genetic Epidemiology of Melanoma and Outcome Research. The University of Texas MD Anderson Cancer Center, Houston, Texas, USA, 05/2017

Genetic Epidemiology of Melanoma and Outcome Research. Guangzhou Medical University, Guangzhou, P.R. China, 08/2018

**Lectureships and Visiting Professorships**

N/A

**Other Presentations at State and Local Conferences**

N/A

**PROFESSIONAL MEMBERSHIPS/ACTIVITIES**

**Professional Society Activities, with Offices Held  
National and International**

American Statistical Association  
Member, 6/2008-6/2010

American Society of Human Genetics  
Member, 8/2009-present

American Association of Cancer Research  
Member, 1/2016-present

**Local/State**

N/A

**UNIQUE ACTIVITIES**

N/A

**DATE OF LAST CV UPDATE**

02/21/2020