

CURRICULUM VITAE**Bilal Bin Hafeez, Ph.D****Assistant Professor**

Department of Immunology and Microbiology

College of Medicine,

University of Rio Grande Valley-TX

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Email: bilal.hafeez@utrgv.edu**Education:**

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Roheilkhand University, Bareilly, U.P, India	B.Sc.	1996	Biology and Chemistry
Hamdard University, Delhi, India	M.Sc.	1998	Toxicology
Hamdard University, Delhi, India	Ph.D	Dec. 2002	Toxicology
Roswell Park Cancer Institute, Buffalo, NY	Post-doc Fellow	2003 - 2004	Cancer Biology/Therapeutics

M.Sc Dissertation Title: “Evaluation of anti-mutagenic activity of natural products” Toxicology Division, Central Drug Research Institute (CDRI), Lucknow, UP, India.

Ph.D Thesis Title “Studies on the immunomodulatory activity of some herbs used in Indian System of Medicine”

Positions and Employment

Post-doctoral Fellow:
(April 2003-Mar 2004)

Department of Pharmacology and Therapeutics, Roswell Park Cancer Institute Cancer Institute, Buffalo, NY, USA.

Research Associate:
(April 2004-Oct 2005)

Department of Medicine, Division of Rheumatic Diseases, Case Western Reserve University, Cleveland, OH, USA.

Assistant Researcher:
Nov (2005-Dec 2008)

Department of Dermatology, School of Medicine and Public Health, University of Wisconsin, Madison WI, USA.

Assistant Scientist:
(Jan 2009- Feb 2011)
WI, USA.

Department of Human Oncology,
School of Medicine and Public Health, University of Wisconsin, Madison, WI, USA.

Associate Scientist:
(Mar 2011- April 2015)

Department of Human Oncology
School of Medicine and Public Health, University of Wisconsin, Madison, WI, USA.

Associate Scientist:
(August 2015-Nov-2015)

Department of Pharmaceutical Sciences, UTHSC, Memphis, TN

Assistant Professor:
(Dec. 2016-May 31)

Department of Pharmaceutical Sciences, UTHSC, Memphis, TN

Assistant Professor (tenure-track): Department of Immunology and Microbiology, School of Medicine, UTRGV, TX
(June 2019 till now)

Awards/Honors

- Jan 1998-Sept 2000: **Senior Research Fellowship (SRF)**, Central Council for Research on Unani Medicine (CCRUM), Govt. of India.
- Aug 2000-Mar 2003: **Senior Research Fellowship (SRF)**, Council for Scientific and Industrial Research (CSIR), New Delhi, Ministry of Health and Welfare, Govt. of India.
- March 2012: **Investigator award**. Santa Cruz Biotechnology, USA

Memberships

- American Association for Cancer Research (**Active member**)
Indian Association for Cancer Research (**Life member**)

Peer-reviewed publications (2001-till date):

Summary: Total 58 (Original articles: **55**; Review article **2**; Book chapter:**1**).

1. **Hafeez BB**, Ahmad I, Haque R, Raisuddin. S. Protective effect of *Cassia occidentalis* L. on cyclophosphamide-induced suppression of humoral immunity in mice. **Journal of Ethnopharmacology** **2001**, 75; 13-18. PMID: 11282437.
2. Haque R, **Hafeez BB**, Ahmad. I, Parvez. S, Pandey. S, Raisuddin. S. Immunomodulatory and Glutathion inducing effects of *Embllica officinalis Gaertn* in cyclophosphamide-treated mice. **Human and Experimental Toxicology** **2001**, 20; 643-650. PMID: 11936579
3. Pandey S, Ahmad I, Parvez S, **Hafeez BB**, Haque R, Raisuddin. S. Effect of endosulfan on antioxidants of freshwater fish *Channa punctatus* Bloch. 1. Protection against lipid peroxidation in liver by copper pre-exposure. **Archives of Environmental Contamination and Toxicology** **2001**, 41; 345-352. PMID: 11503072
4. **Hafeez BB**, Haque R, Parvez S, Pandey S, Saeed I, Raisuddin S. Immunomodulatory effect of *Trigonella foenum graecum* in mice. **International Immunopharmacology** **2003**, 3; 257-265. PMID: 12586606
5. Haque R, **Hafeez BB**, Parvez S, Pandey S, Saeed I, Ali. M, Raisuddin S. Aqueous extract of walnut (*Juglans regia* L.) protects mice against cyclophosphamide induced biochemical toxicity. **Human and Experimental Toxicology** **2003**, 22; 473-480. PMID: 14580007
6. Sayeed I, Parvez S, Pandey S, **Hafeez BB**, Haque R, Raisuddin S. Oxidative stress biomarkers of exposure to deltamethrin in freshwater fish, *Channa punctatus* Bloch. **Ecotoxicology and Environmental Safety** **2003**, 56; 295-301. PMID: 12927561
7. Parvez S, Sayeed I, Pandey S, Ahmad A, Ahmad A, **Hafeez, BB**, Haque R, Raisuddin S. Modulatory effect of copper on non-enzymatic antioxidants in freshwater fish *Channa punctatus* (Bloch.). **Biological Trace Element Research** **2003**, 93; 237-48. PMID: 12835505
8. Pandey S, Parvez S, Sayeed I, Haque R, **Hafeez BB**, Raisuddin S. Biomarkers of Oxidative Stress: A Comparative Study of River Yamuna Fish *Wallago attu* (Bl. & Schn.) **Science of the Total Environment** **2003**, 309;105-115. PMID: 12798096

9. Ahmed S, Wang Naizen, **Hafeez BB**, Haqqi TM. Punica granatum L extracts inhibits IL-1 beta induced expression of Matrix Metalloproteinases by inhibiting the activation of the mitogen activated protein kinesis and Nuclear Factor-kB activity in human chondrocytes in vitro. **Journal of Nutrition** **2005**, 135; 2096-102. PMID: 16140882
10. **Hafeez BB**, Ahmed S, Naizen W, Haqqi TM. Green tea polyphenols-induced apoptosis in human osteosarcoma SAOS-2 cells involves a caspase-dependent mechanism with downregulation of nuclear factor-kappaB. **Toxicology and Applied Pharmacology** **2006**, 216;11-9. PMID: 16797629
11. Ewens A, Luo L, Berleth E, Alderfer J, Wollman R, **Hafeez BB**, Kanter P, Mihich E, Ehrke MJ. Doxorubicin plus interleukin-2 chemoimmunotherapy against breast cancer in mice. **Cancer Research** **2006**, 66; 5419-26. PMID: 16707470
12. Saleem M, Kweon MH, Johnson JJ, Adhami VM, Elcheva I, Khan N, **Hafeez BB**, Bhat KM, Sarfaraz S, Reagan-Shaw S, Spiegelman VS, Setaluri V, Mukhtar H. S100A4 accelerates tumorigenesis and invasion of human prostate cancer through the transcriptional regulation of matrix metalloproteinase 9. **Proceeding of the National Academy of Sciences (PNAS) USA** **2006**, 103; 14825-30. PMID: 16990429
13. Siddiqui IA, Malik A, Adhami VM, Asim M, **Hafeez BB**, Sarfaraz S, Mukhtar H. Green tea polyphenols EGCG sensitizes human prostate carcinoma LNCaP cells to TRAIL-mediated apoptosis and synergistically inhibits biomarkers associated with angiogenesis and metastasis. **Oncogene** **2008**, 27(14):2055-63. PMID: 17998943
14. **Hafeez BB**, Imtiaz IA, Asim M, Malik A, Afaq F, Adhami VM, Saleem M, Mukhtar H. Delphinidin, a major anthocyanidin present in pigmented fruits and vegetables inhibits the prostate cancer cells xenograft in athymic nude mice. **Cancer Research** **2008**, 15; 68 (20):8564-72. PMID: 18922932
15. **Hafeez BB**, Asim M, Siddiqui IA, Adhami VA, Ahmad A, Jakka SA, Baniahmad A and Mukhtar H. Delphinidin, a dietary anthocyanidin in pigmented fruits and vegetables: A new weapon to blunt prostate cancer growth. **Cell Cycle** **2008**, 7(21):3320-6. PMID: 18948740
16. Siddiqui IA, Shukla Y, Adhami VM, Sarfaraz S, Asim M, **Hafeez BB**, Mukhtar H. Suppression of NF-kappaB and its Regulated Gene Products by Oral Administration of Green Tea Polyphenols in an Autochthonous Mouse Prostate Cancer Model. **Pharmaceutical Research** **2008**, 25(9): 2135-42. PMID: 18317887
17. Asim M, Siddiqui IA, **Hafeez BB**, Baniahmad A, Mukhtar H. Src Kinase potentiates androgen receptor transactivation function and invasion of androgen-independent prostate cancer C4-2 cells. **Oncogene** **2008**, 27(25):3596-604. 27(14):2055-63. PMID: 18223692
18. Saleem M, Maddodi N, Zaid MA, Khan N, **Hafeez BB**, Asim M, Suh Y, Yun J, Setaluri V, Mukhtar H. Lupeol inhibits growth of highly aggressive human metastatic melanoma cells in vitro and in vivo by inducing apoptosis. **Clinical Cancer Research** **2008**, 14: 2119-27. PMID: 18381953
19. Aziz MH, **Hafeez BB**, Sand JM, Pierce DB, Aziz SW, Dreckschmidt NE, and Verma AK. Protein kinase C epsilon mediates Stat3Ser727 phosphorylation, Stat3-regulated gene expression and cell invasion in various human cancer cell lines via integration with ERK1/2. **Oncogene** **2009**; 27;29(21):3100-9. PMID: 20228845
20. Murtaza I, Adhami VM, **Hafeez BB**, Saleem M and Mukhtar H. Fisetin, a natural flavonoid, targets chemoresistant human pancreatic cancer AsPC-1 cells through DR3 mediated inhibition of NF-kB. **International Journal of Cancer** **2009**, 125(10):2465-73. PMID: 19670328

21. Murtaza I, Saleem M, Adhami V, **Hafeez BB**, Mukhtar H. Suppression of cFLIP by Lupeol a dietary triterpene is sufficient to overcome resistance to TRAIL-mediated apoptosis in chemoresistant human pancreatic cancer cells. **Cancer Research** 2009, 69(3):1156-65. PMID: 19176377
22. **Hafeez BB**, Adhami VM, Asim M, Imtiaz IA, Saleem M, Kumar MR Bhat, Din M Sataluri VS, Mukhtar H. Targeted knockdown of Notch1 inhibits invasion of human prostate cancer cell concomitant with inhibition of matrix metalloproteinase-9 and urokinase plasminogen activator. **Clinical Cancer Research** 2009, 15(2);452-9. PMID: 19147749
23. Siddiqui IA, Adhami VM, Bharali DJ, **Hafeez BB**, Asim M, Khwaja SI, Ahmad N, Cui H, Mousa SA, Mukhtar H (2009). Introducing Nanochemoprevention as a Novel Approach for Cancer Control: Proof of Principle with Green Tea Polyphenol Epigallocatechin-3-Gallate. **Cancer Research** 2009, 69(5);1712-6. PMID: 19223530
24. Adhami VM, Siddiqui IA, Sarfaraz S, Khwaja SI, **Hafeez BB**, Ahmad N, Mukhtar H. Effective prostate cancer chemopreventive intervention with green tea polyphenols in the TRAMP model depends on the stage of the disease. **Clinical Cancer Research** 2009, 15(6);1947-53. PMID: 19276266
25. Saleem M, Murtaza I, Tarapore R, Suh Y, Adhami VM, Johnson JJ, Siddiqui IA, Khan N, Asim M, **Hafeez BB**, Shekhani MT, Li B, Mukhtar H. Lupeol Inhibits Proliferation of Human Prostate Cancer Cells by Targeting {beta}-catenin Signaling. **Carcinogenesis** 2009, 30(5);808-17. PMID: 19233958
26. Siddiqui IA, Asim M, **Hafeez BB**, Adhami VM, Tarapore RS, Mukhtar H. Green tea polyphenol EGCG blunts androgen receptor function in prostate cancer. **FASEB J** 2011, 25(4);1198-207. PMID: 21177307
27. Prasad AS, Mukhtar H, Beck FW, Adhami VM, Siddiqui IA, Din M, **Hafeez BB**, Kucuk O. Dietary zinc and prostate cancer in the TRAMP mouse model. **Journal of Medicinal Food** 2010, 13(1);70-6. PMID: 20136438
28. **Hafeez BB**, Zhong, W, Weichert J, Dreckschmidt NE, Jamal MS, Verma AK. Genetic ablation of PKC epsilon inhibits prostate cancer development and metastasis in transgenic mouse model of prostate adenocarcinoma. **Cancer Research** 2011. 71(6);2318-27. PMID: 21406403
29. Asim M, **Hafeez BB**, Siddiqui IA, Gerlach C, Patz M, Mukhtar H, Baniahmad A. LCoR acts as a novel androgen receptor corepressor, inhibits prostate cancer growth and its functionality inactivated by the Src kinase. **Journal of Biological Chemistry** 2011, 6 (43):37108-17. PMID: 2185674.
30. Sand JM, **Hafeez BB**, Aziz MH. Seibers EM, Verma AK. Ultraviolet radiation and 12-O-tetradecanoylphorbol-13-acetate-induced interaction of mouse epidermal protein kinase C ϵ with Stat3 involve integration with ERK1/2. **Molecular Carcinogenesis** 2012. Apr;51(4):291-302.PMID: 21480396.
31. Sand JM, **Hafeez BB**, Jamal MS, Witkowsky O, Siebers EM, Fischer J, Verma AK. Plumbagin (5-hydroxy-2-methyl-1,4-naphthoquinone), isolated from *Plumbago zeylanica*, inhibits Ultraviolet Radiation-Induced Development of Squamous Cell Carcinomas. **Carcinogenesis** 2012, 33(1):184-90. PMID: 22072620.
32. ***Hafeez BB**, Jamal S, Fischer J, Mustafa A, Verma AK. Plumbagin, a plant based naphthoquinone inhibits the growth of pancreatic cancer cells in vitro and in vivo via targeting EGFR, Stat3 and NF- κ B signaling networks. **International Journal of Cancer** 2012, 131(9):2175-86. PMID:22322442.

(*Corresponding author).

33. *Hafeez BB, Fischer J, Jamal S, Mustafa A, Verma AK. Plumbagin inhibits prostate cancer development in TRAMP mice via targeting PKC ϵ , Stat3 and neuroendocrine markers. **Carcinogenesis** **2012**, 33(12):2586-92. PMID: 22976928. (*Corresponding author).
34. *Hafeez BB, Zhong W, Fischer JW, Mustafa A, Shi X, Meske L, Hong H, Cai W, Havighurst T, Kim K, Verma AK. Plumbagin inhibits human prostate cancer PC3M luciferase cells derived xenograft tumors and metastasis in an orthotropic xenograft mouse model. **Molecular Oncology** **2013**, 7(3):428-39. PMID:23273564 (*Corresponding author).
35. *Hafeez BB, Mustafa A, Fischer JW, Singh A, Zhong W, Sheikhan MO, Meske L, Havighurst T, Kim K, Verma AK. α -Mangostin, a dietary anti-oxidant inhibits the growth of pancreatic cancer cells xenograft tumors in athymic nude mice. **Anti-oxidant and Redox signaling** **2013** Aug 10;21(5):682-99. PMID:24295217 (*Corresponding author).
36. Singh A, Singh A, Sand JM, Heninger E, Hafeez BB, Verma AK. Protein Kinase C ϵ , which is linked to ultraviolet radiation-induced development of squamous cell carcinomas, stimulates rapid turnover of adult hair follicle stem cells. **Journal of Skin Cancer** **2013**, 2013:452425. PMID 23738074.
37. Singh A, Bauer S, Singh A, Sand J M, Hafeez BB, Meske L, and Verma AK. Topically applied Hsp90 inhibitor 17AAG inhibits ultraviolet radiation-induced cutaneous wrinkles and squamous cell carcinomas. **Journal of Investigative Dermatology**, **2014** Oct 22 (Epub ahead of print). PMID:25337691
38. *Hafeez BB, Fischer JW, Singh A, Zhong W, Mustafa A, Meske L, Sheikhan MO, Verma AK. Plumbagin Inhibits Prostate Carcinogenesis in Intact and Castrated PTEN Knockout Mice via Targeting PKC ϵ , Stat3, and Epithelial-to-Mesenchymal Transition Markers. **Cancer Prev Res (Phila)**. **2015** May;8(5):375-86. PMID:25627799. (*Corresponding author).
39. Singh A, Willems E, Singh A, Hafeez BB, Ong IM, Mehta SL, Verma AK. Ultraviolet radiation-induced tumor necrosis factor alpha, which is linked to the development of cutaneous SCC, modulates differential epidermal microRNAs expression. **Oncotarget**. **2016** Apr 5;7(14):17945-56 PMID: 2691845.
40. Hafeez BB, Hafeez BB, Meske L, Singh A, Singh A, Zhong W, Powers P, John M, Griep AE, Verma AK. Tissue-specific conditional PKC ϵ knockout mice: a model to precisely reveal PKC ϵ functional role in initiation, promotion and progression of cancer. **Oncotarget**. **2016** May 31;7(22):33069-80. PMID: 27102301
41. Nagesh PKB., Johnson NR, Boya VKN, Chowdhury P, Othman SF, Khalilzad-Sharghi V, Hafeez BB, Ganju A, Khan S, Behrman SW, Zafar N, Chauhan SC, Jaggi M, Yallapu MM. PSMA targeted docetaxel-loaded superparamagnetic iron oxide nanoparticles for prostate cancer. **Colloids and Surfaces B: Biointerfaces** **2016** Aug 1;144:8-20. PMID:2705827.
42. Khan S, Sikander M, Ebeling MC, Ganju A, Kumari S, Yallapu MM, Hafeez BB, Ise T, Nagata S, Zafar N, Behrman SW, Wan JY, Ghimire HM, Sahay P, Pradhan P, Chauhan SC, Jaggi M. MUC13 interaction with receptor tyrosine kinase HER2 drives pancreatic ductal adenocarcinoma progression. **Oncogene**. **2016** Jan 26;36(4):491-500. PMID:27321183
43. Sikander M, Hafeez BB*, Malik S, Alsayari A, Halaweish FT, Yallapu MM, Chauhan, SC, Jaggi M. Cucurbitacin D exhibits potent anti-cancer activity in cervical cancer. **Scientific Report** **2016** (In

Press). (* Equally contributed).

44. Ganju A, Khan S, **Hafeez BB**, Behrman SW, Yallapu MM, Chauhan SC, Jaggi M. miRNA nanotherapeutics for cancer. **Drug Discov Today**. 2017 Feb;22(2):424-432. PMID:27815139
45. Chowdhury P, Roberts AM, Khan S, **Hafeez BB**, Chauhan SC, Jaggi M, Yallapu MM. Magnetic Nanoformulations for Prostate Cancer. **Drug Discov Today**. 2017 May 16. pii: S1359-6446(16)30468-8.
46. **Hafeez BB**, Ganju A, Sikander M, Kashyap VK, Chauhan N, Malik S, Massey AE, Tripathi MK, Halaweish FT, Zafar N, Singh MM, Yallapu MY, Chauhan SC, Jaggi M. Ormeloxifene suppresses prostate tumor growth and metastatic phenotypes *via* inhibition of oncogenic β -catenin signaling and EMT progression. **Molecular Cancer Therapeutics** 2017. 2017 Oct; 16(10):2267-2280.
47. Chowdhury P, Roberts AM, Khan S, **Hafeez BB**, Chauhan SC, Jaggi M, Yallapu MM. Magnetic nanoformulations for prostate cancer. **Drug Discov Today**. 2017 Aug; 22(8):1233-1241. PMID:28526660
48. Chowdhury P, Prashanth K.B. Nagesh, Sheema Khan, **Hafeez BB**, Chauhan SC, Jaggi M, Yallapu MM*. Development of polyvinylpyrrolidone/paclitaxel self-assemblies for breast cancer, **Acta Pharmaceutica Sinica B**, 2018 Jul;8(4):602-614. PMID: 30109184.
49. Ganju A, Chauhan SC, **Hafeez BB**, Doxtater K, Tripathi MK, Zafar N, Yallapu MM, Kumar R, Jaggi M. Protein kinase D1 regulates subcellular localization and metastatic function of metastasis-associated protein 1. **Br J Cancer**. 2018 Feb 20; 118(4):587-599. PMID:29465084
50. Nagesh PKB, Hatami E, Chowdhury P, Kashyap VK, Khan S, **Hafeez BB**, Chauhan SC, Jaggi M, Yallapu MM. Tannic Acid Induces Endoplasmic Reticulum Stress-Mediated Apoptosis in Prostate Cancer. **Cancers (Basel)**. 2018 Mar 7; 10(3).
51. Nagesh PKB, Chowdhury P, Hatami E, Boya VKN, Kashyap VK, Khan S, **Hafeez BB**, Chauhan SC, Jaggi M, Yallapu MM. miRNA-205 Nanoformulation Sensitizes Prostate Cancer Cells to Chemotherapy. **Cancers (Basel)**. 2018 Aug 25;10(9).
52. Kashyap VK, Wang Q, Setua S, Nagesh PKB, Chauhan N, Kumari S, Chaudhury P, Miller DD, Yallapu MM, Li W, Jaggi M, ***Hafeez BB**, Chauhan SC. Therapeutic efficacy of a novel β III/ β IV-tubulin inhibitor (VERU-111) in pancreatic cancer. **Journal of Experimental & Clinical Cancer Research** 2019 38:29. ***Co-corresponding author**
53. ***Hafeez BB**, Sikander M, Chauhan N, Kumari S, Setua S, Shetty AB, Mandil H, Kashyap VK, Khan S, Jaggi M, Yallapu MM, ***Hafeez BB**, Chauhan SC. Next-generation Paclitaxel-nanoparticle formulation for pancreatic cancer treatment. **Nanomedicine**. 2019 Jun 4;20:102027. ***Equally Contributed**

Abstracts in National/International Conferences:

1. **Hafeez BB**, Ahmad I, Haque R and Raisuddin S. Immunomodulatory activity of *Trigonella Foenum Graecum* (METHI) in swiss albino mice. XIV Annual Conference of Society of Toxicology (STOX) India, Palampur, HP. India Nov. 9-10, 2000.
2. Mihich E, Ito Y, **Hafeez BB**, and Ehrke MJ. Study of the preventive effects of protein-bound polysaccharide K (PSK) in the transgenic adenocarcinoma of mouse prostate (TRAMP) model. AACR Meeting Abstracts, Mar 2004; 169.

3. **Hafeez BB**, Ahmed S, Wang N, Gupta S, and Haqqi TM. Green tea polyphenols (GTP) induce apoptosis in human osteosarcoma SAOS-2 cells through inhibition of nuclear factor- κ B (NF- κ B) activation. AACR Meeting Abstracts, Apr 2005; 1230.
4. Afaq F, **Hafeez BB**, Syed DN, Kweon MH, and Mukhtar H. Oral feeding of pomegranate fruit extract inhibits early biomarkers of UVB radiation-induced carcinogenesis in SKH-1 hairless mouse epidermis. The 67th Annual Meeting of the Society for Investigative Dermatology, Philadelphia, PA, USA, 2006.
5. Saleem M, Khan N, **Hafeez BB**, Kweon M, and Mukhtar H. Lupeol, a dietary triterpene, inhibits Wnt/ β -catenin/TCF signaling pathway with concomitant G2/M cell cycle arrest in human prostate cancer cells AACR Meeting Abstracts, Apr 2006;925.
6. Afaq F, **Hafeez BB**, Syed DN, Kweon M-H, and Mukhtar H. Oral feeding of anthocyanin- and hydrolyzable tannin-rich pomegranate fruit extract modulates early biomarkers of photocarcinogenesis in SKH-1 hairless mouse epidermis. The 33rd Annual Meeting of American Society for Photobiology, July 8-12, 2006 (Rio Grande, Puerto Rico).
7. **Hafeez BB**, Adhami VM, Afaq F, Saleem M, Sarfaraz S, Khan N, Din M, and Mukhtar H. Delphinidin induces apoptosis and growth inhibition of prostate cancer PC-3 cells via inhibition of Notch-1 and NF- κ B/PI3K pathways AACR Meeting Abstracts, Apr 2007; 1578. **(Oral presentation)**
8. Afaq F, Zaid MA, Khan N, Syed DN, **Hafeez BB**, Yun JM, Sarfaraz S, and Mukhtar H. Pomegranate fruit extract inhibits UVB-induced activation of NF- κ B and MAPK leading to decreased expression of matrix metalloproteinases in SKH-1 mouse skin AACR Meeting Abstracts, Apr 2007; 2007: 2571.
9. Siddiqui IA, Adhami VM, Malik A, Sarfaraz S, **Hafeez BB**, and Mukhtar H. EGCG sensitizes human prostate cancer LNCaP cells to TRAIL induced apoptosis through modulation of extrinsic and intrinsic pathways and synergistically inhibits angiogenesis and metastasis. AACR Meeting Abstracts, Apr 2007; 2007: 2343.
10. **Hafeez BB**, Adhami VM, Bhat K, Afaq F, Siddiqui IA, Din M, Vijayasradhi Setaluri, and Hasan Mukhtar. Silencing of NOTCH-1 inhibits invasion and metastasis of human prostate cancer PC-3 cells via inhibition of matrix metalloproteinase and urokinase plasminogen activator. AACR Meeting Abstracts, Apr 2007; 4940. **(Oral presentation)**.
11. **Hafeez BB**, Adhami VM, Asim M, Saleem M, Zhong W, Siddiqui IA, Din M, Mukhtar H. Over-expression of Notch1 in human prostate cancer and its role in tumor invasion: Evidence based on tissue and cDNA gene arrays. AACR Annual Meeting April 2-16, 2008, San Diego, CA, USA.
12. Asim M, **Hafeez BB**, Siddiqui IA, Baniahmad A, Mukhtar H. Regulation of corepressor LCoR functions by Src kinase in prostate cancer. 2008 AACR Annual Meeting April 2-16, 2008, San Diego, CA, USA.
13. Saleem M, Suh Y, **Hafeez BB**, Johnson JJ, Murtaza I, Mukhtar H. Lupeol, a novel diet-based triterpene modulates insulin growth factor receptor 1 and β -catenin signaling in human prostate cancer cells 2008 AACR Annual Meeting April 2-16, 2008, San Diego, CA, USA.
14. Murtaza I, Saleem M, **Hafeez BB**, Sonkarley P, Adhami VM, Siddiqui IA, Mukhtar H. Lupeol, a dietary triterpene, inhibits the proliferation of human prostate cancer cells: modulation of microtubule assembly and inhibition of proteasome. 2008 AACR Annual Meeting April 2-16, 2008, San Diego, CA, USA.

15. Siddiqui IA, Adhami VM, **Hafeez BB**, Asim M, Khwaja SI, Bharali D, Mousa SA, Mukhtar H. Nanochemoprevention: Introducing a novel concept in cancer chemoprevention with a proof of principle for superior activity of green tea polyphenol epigallocatechin-3-gallate encapsulated in PLGA/PVA nanoparticles. 2008 AACR Annual Meeting, April 2-16, 2008, San Diego, CA, USA.
16. Asim M, **Hafeez BB**, Siddiqui IA, Mukhtar H. Green tea polyphenol EGCG antagonizes androgen function: Novel insight into the mechanism of chemopreventive effects of green tea on prostate cancer 2008 AACR Annual Meeting April 2-16, 2008, San Diego, CA, USA.
17. **Hafeez BB**, Asim M, Siddiqui IA, Adhami VM, Ahmad A, and Mukhtar H. Dietary anthocyanidin delphinidin interacts with androgen receptor and accelerates its degradation in human prostate cancer cells and in a xenograft mouse model. AACR Annual Meeting April 17-21, 2009, Denver, CO, USA
18. **Hafeez BB**, Colson LA, Verma AK. Plumbagin, a non-toxic natural agent induces apoptosis and inhibits the growth of prostate cancer LNCaP and C4-2 cells via blocking both androgen and non-androgen activation of androgen receptor signaling. AACR Annual Meeting April 17-21, 2010, Washington DC, USA.
19. **Hafeez BB**, Dreckschmidt NE, Colson LA and Verma AK. Dietary agent alfa Mangostin inhibits the growth of pancreatic cancer BxPC3 and PANC1 cells and arrests the cell cycle in G0/G1 Phase: Involvement of K-Ras, Hedgehog, NF-kB and Stat3 signaling networks. AACR Annual Meeting April 17-21, 2010, Washington DC, USA.
20. **Hafeez BB**, Dreckschmidt NE, Colson LA and Verma AK. Plumbagin, A plant derived natural compound inhibits the pancreatic cancer cell growth in vitro and in vivo xenograft mouse model systems via targeting NF-kB and Stat3 signaling. AACR Annual Meeting April 17-21, 2010, Washington DC, USA.
21. **Hafeez BB**, Zhong, W, Weichert J, Verma AK. PKC epsilon link to the development and metastasis of prostate cancer. 30th Annual Conference of the Society of Toxicology (STOX) India, Hamdard University, New Delhi, India, Dec 9-11, 2010.
22. **Hafeez BB**, Zhong, W, Weichert J, Dreckschmidt NE, Jamal MS, Verma AK. Genetic loss of PKC epsilon inhibits development and metastasis of prostate cancer in transgenic adenocarcinoma of mouse prostate model. AACR Annual Meeting April 2-6, 2011, Orlando, FL, USA.
23. **Hafeez BB**, Zhong, W, Verma AK. PKC epsilon modulated miRNAs profiling during development of prostate cancer in transgenic adenocarcinoma of mouse prostate model. AACR Annual Meeting April 2-6, 2011, Orlando, FL, USA.
24. Jamal S, **Hafeez BB**, Verma AK. Chronic ultraviolet radiation exposure of mouse skin activates GATA and PAX families of transcription factors, which regulate expression of cell survival genes. AACR Annual Meeting April 2-6, 2011, Orlando, FL, USA.
25. Jamal S, **Hafeez BB**, Verma AK. Ultraviolet radiation modulates distinct mouse epidermal miRNAs expression profile. AACR Annual Meeting April 2-6, 2011, Orlando, FL, USA.
26. **Hafeez BB**, Zhong W, Weichert J, Jamal MS, Haque A, Verma A. PKCε-activated Stat3 and subsequent AR interaction are potential molecular targets for prevention of late stage prostate cancer. Frontiers in Cancer Prevention Research, October 22-25, 2011, Boston, Massachusetts, USA. **(Oral**

27. **Hafeez BB**, Fischer J, Mustafa A, Verma AK. Plumbagin, a plant derived naphthoquinone inhibits the metastatic growth of human prostate cancer PC-3M luciferase cells in an orthotopic xenograft mouse model. 4th International Conference on Translational Cancer Research - India (Dec 16-19, 2011), Udaipur, Rajasthan, India. **(Oral presentation)**.
28. **Hafeez BB**, Fischer JW, Mustafa A, Zhong W, Verma AK. α -Mangostin, a dietary xanthone, inhibits ectopic xenograft growth of pancreatic cancer cells in an athymic nude mice. AACR Annual Meeting March 31-April 4, 2012, Chicago, IL, USA.
29. **Hafeez BB**, Zhong W, Fischer JW, Mustafa A, Verma AK. Plumbagin, a plant derived naphthoquinone, inhibits the metastatic growth of human prostate cancer PC-3M luciferase cells in an orthotopic xenograft mouse model. AACR Annual Meeting March 31-April 4, 2012, Chicago, IL USA.
30. Haque A, Jamal MS, Meske L, **Hafeez BB**, and Verma AK. Protein Kinase C ϵ and Protein Kinase C η , which are linked to skin carcinogenesis, associate with Hsp90 α . AACR Annual Meeting March 31-April 4, 2012, Chicago, IL, USA.
31. **Hafeez BB**, Zhong W, Fischer JW, Verma AK. PKC ϵ induced Stat3- AR interaction involved in castration resistant prostate cancer. Workshop on Lipid signaling pathways in cancer 1-7 July 2012, Steamboat, CO, USA.
32. Singh A, Bauer S, Singh A, Sand J M, **Hafeez BB**, Meske L, and Verma AK. Topically applied Hsp90 inhibitor 17-(allylamino)-17-demethoxygeldanamycin inhibits ultraviolet radiation-induced development of cutaneous squamous cell carcinomas. AACR meeting abstracts Proceedings of the 104th Annual Meeting of the American Association for Cancer Research; 2013 Apr 6-10; Washington, DC., USA.
33. Khan MK, Vaqar MA, Lall RK, Syed DN, Siddiqui IA, **Hafeez BB**, Verma AK, Mukhtar H. Grb10, a negative regulator of insulin signaling, is a tumor suppressor in prostate cancer. Proceedings of the 104th Annual Meeting of the American Association for Cancer Research; 2013 Apr 6-10; Washington, DC., USA.
34. Chaiswing L, Mcmillan A, **Hafeez BB**, Verma AK, Oberley TD, Zhong W. Oxidized redox state, a potential biomarker for aggressive prostate cancer. Oxygen radicals from detection to disease Feb 9-14, 2014 Ventura, CA, USA.
35. **Hafeez BB**, Fischer JW, Singh A, Mustafa A, Meske L, Verma AK. Plumbagin, a medicinal plant-derived 1,4-naphthoquinone, inhibits prostate carcinogenesis in intact and castrated *Pten* knockout mice by modulation of tumor microenvironment. Proceedings of the 105th Annual Meeting of the American Association for Cancer Research; 2014 Apr 5-9; San Diego, CA.
36. Khan MK, Vaqar MA, Haidar MH, **Hafeez BB**, Verma AK, Mukhtar H. PTEN deficiency in prostate epithelial cells is associated with increased CAD phosphorylation and is inhibited by fisetin. Proceedings of the 105th Annual Meeting of the American Association for Cancer Research; 2014 Apr 5-9; San Diego, CA.
37. **Hafeez BB**, Meske L, Singh A, Singh A, Verma AK. Generation and characterization of tissue specific conditional PKC epsilon knock out mice. PKC. Workshop on Lipids and Lipids regulated kinase in cancer. July 27-August 2014, Steamboat, CO, USA.

38. **Hafeez BB**, Singh A, Verma AK. Plumbagin, a medicinal plant derived naphthoquinone, may restore the efficacy and reduce intolerable toxicity of prostate anticancer drug docetaxel. EACR-AACR-SIC Special Conference to be held in Florence, Italy 20-23 June 2015.
39. **Hafeez BB**, Meske L, Singh A, Singh A, Zhong W, Powers P, John M, Griep AE, Verma AK. Tissue-specific conditional PKC ϵ knockout mice: model to precisely reveal PKC ϵ functional role in initiation, promotion and progression of cancer Proceedings of the 106th Annual Meeting of the American Association for Cancer Research; 2015 Apr 18-20; Philadelphia, Pennsylvania.
40. Kashyap VK, **Hafeez BB**, Q. Wang, N. Chauhan, Nagesh P. K. B., Dan N, Kumari S, Malik S, Setua S, A. Ganju A, Yallapu MM, D. D. Miller DD, Li W, Jaggi M, Chauhan SC, April 15, 2018, 1:00 PM - 5:00 PM, AACR 2018, Chicago, Illinois.
41. **Hafeez BB**, A. E. Massey, V. K. Kashyap, M. Sikander, A. Shetty, M. Chaib, H. Mandil, M. Yallapu, M. Jaggi, S. C. Chauhan, Novel nano-formulation of paclitaxel for pancreatic cancer therapy, April 15, 2018, 1:00 PM - 5:00 PM, AACR 2018, Chicago, Illinois.
42. Nagesh PB, Chowdhury P, Hatami E, Kashyap VK, **Hafeez BB**, Khan S, Chauhan SC, Jaggi M, Yallapu M, Docetaxel nanoformulation reverts drug resistance in prostate cancer, April 17, 2018, 1:00 PM - 5:00 PM, AACR 2018, Chicago, Illinois.
43. Hatami E, Nagesh, PB. Chowdhury P, Kashyap VK, Khan S, **Hafeez BB**, Jaggi M, Chauhan SC, Yallapu M. Tannic acid induces prostate cancer cell death via unfolded protein response (UPR) and modulation of CHOP, April 18, 2018, 8:00 AM - 12:00 PM, AACR 2018, Chicago, Illinois.
44. **Hafeez BB**, Massey AE, Kashyap VK, Sikander M, Shetty A, Chaib M, Mandil H, Malik S, M.. Yallapu MM, Jaggi M, Chauhan SC; Ormeloxifene augments the therapeutic response of enzalutamide via targeting androgen receptor splice variant 7, April 18, 2018, 8:00 AM - 12:00 PM AACR 2018, Chicago, Illinois.
45. Sikander M, Malik S, **Hafeez BB**, Mandil H, Halaweish FT, Jaggi M, Chauhan SC. Cucurbitacin D enhances the therapeutic efficacy of docetaxel via targeting cancer stem cells and miR-145, Chauhan; April 16, 2018, 1:00 PM - 5:00 PM, AACR 2018, Chicago, Illinois.
46. Kashyap VK, **Hafeez BB**, Wang Q, Chauhan N, Prashanth KB, Dan N, Malik S, Setua S, Ganju A, Yallapu MM, Miller D, Li W, Jaggi M, Chauhan SC, ABI-231: A novel microtubule inhibitor suppresses tumor growth and metastatic phenotypes of cervical cancer cells via targeting HPV E6 and E7, Poster Forum 6 - Wednesday - 09:00 am, AAPS 2017, San Diego.
47. Chaib M, **Hafeez BB**, Kumari S, Sikander M, Mendil H, Shetty A, Hatami I, Yallapu MM, Meena Jaggi M, Chauhan S. Ferrichrome suppresses pancreatic tumor growth *via* inducing M1 macrophages and infiltration of CD8+ T-cells. AACR 2019 Atlanta, Georgia.

Book Chapter

1. Ahmad S. **Hafeez BB** and Haqqi TM. Green Tea and the prevention of Arthritis. Protective effects of Tea on Human Health, Volume1, Editor: Jain NK, Siddiqi MA and Weisburger JH. 158-171, 2006.

Seminars/Conference Presentations/Invited Lectures

1. “*Delphinidin, a natural dietary agent against prostate cancer*” Department of Dermatology, UW-Madison, WI (March 15, 2006). **(Department Presentation)**
2. “*Targeted deletion of Notch1 inhibits the invasion of PCa via inhibiting MMP9 and uPA*”. Mini symposia at Annual Meeting of AACR, Los Angeles, CA, (April 6, 2007). **(Conference Presentations)**
3. “*Delphinidin induces apoptosis and growth inhibition of prostate cancer PC-3 cells via inhibition of Notch-1 and NF- κ B/PI3K pathways*”. Mini symposia at Annual Meeting of AACR Los Angeles, CA (April 10, 2007). **(Presentation)**
4. “*Plumbagin inhibits growth of androgen-independent prostate cancer cells C4-2 drive tumors in xenograft mouse model: Targeting androgen receptor signaling*” UW-Madison Prostate group meeting, (October 10, 2009).
5. “*Genetic ablation of PKC ϵ inhibits prostate cancer development and metastasis* W-Madison Prostate group meeting, (November 10, 2010).
6. “*Genetic loss of PKC ϵ inhibits prostate cancer development and metastasis in TRAMP mice model*” at Indian Society of Toxicology meeting, Jamia Hamdard (Hamdard University), New Delhi, INDIA, Dec 9-11, 2010. **(Oral Presentation)**
7. “*Plumbagin, a plant derived naphthoquinone inhibits the metastatic growth of human prostate cancer PC-3M luciferase cells in an orthotropic mouse model*”. Forth International Symposium on Translational Cancer Research meeting, Udaipur, Rajasthan, India (December 16-19th, 2011). **(Invited talk)**
8. “*PKC ϵ is a novel molecular target against prostate: Genetic and Pharmacologic evidence*” UW-Madison Prostate group meeting, (February 1, 2012).
9. “*Plumbagin: A nature’s gift for prostate cancer treatment*” Prostate group meeting, UW-Madison, WI (March 1, 2013).
10. PKC ϵ : “*A molecular target for the treatment of prostate cancer*” School of Environmental Science, Jawaharlal Nehru University, New Delhi, India, (November 21, 2013). **(Invited talk)**
11. PKC ϵ : “*A key player for the development and metastasis of prostate cancer*”. Jamia Millia Islamia (JMI), New Delhi, India (December 5, 2013). **(Invited talk)**
12. “*Plumbagin: A medicinal plant-derived naphthoquinone, an anti-cancer drug of future*” Prostate group meeting, UW-Madison, WI (March 7, 2014).
13. “*PKC ϵ : Role in Prostate tumor microenvironment* prostate group meeting”. UW-Madison, WI (February 7, 2015).
14. PKC ϵ : “*A novel molecular target for the prevention and treatment of prostate cancer*”. UTHSC, Memphis, TN, Department of Pharmaceutical Sciences Seminar Series. (August 23).

15. *Genetic and pharmacological evidence of the role of PKCε in prostate cancer development and metastasis*". Department of Biomedical Sciences, University of Chicago, Rockford, IL. (September 13, 23).
16. *PKCε: "A novel molecular target for the prevention and treatment of prostate Cancer* Research Seminar Series, UTHSC, Memphis, TN (April 30, 2017).

Teaching Experience

2001-2003 Guest lecturer, Department of Toxicology, Hamdard University, New Delhi, India Prepared and taught a Chemical Carcinogenesis and Food Toxicology courses.

Supervisory Experience

1. **(2006-2007) Maria Din**, Undergraduate Student, University of Wisconsin-Madison, WI. Currently a Medical Student at University of Chicago, IL, USA.
2. **(2009-2010) Lauri Colson**, Research Trainee, 2009-2010, University of Wisconsin- Madison, WI, Currently working as Teaching Assistant at Department of Chemistry, UW Madison, WI, USA.
3. **(2009-2010) Marian**, Undergraduate Student, 2009-2010, University of Wisconsin-Madison, WI, USA.
4. **(2009-2011) Olya Witkowsky**, Undergraduate Student, University of Wisconsin-Madison, WI. Currently a D. Pharm student at UW-Madison WI, USA.
5. **(2011-2013) Ala Mustafa**, Undergraduate Student, University of Wisconsin-Madison, WI, USA, Received best poster presentation award in Undergraduate symposium, UW Madison, WI, USA.
6. **(2011-2013) Joe Fischer**, Undergraduate Student, Received best poster presentation award in undergraduate symposium at annual AACR meeting 2012, Chicago, IL, USA. Currently pursuing his Ph.D from John Hopkins Research Institute, Baltimore.
7. **(2013-2014) Mohammad Ozair Shekhani**, Post-graduate Student University of Wisconsin-Madison, WI, USA.
8. **(2010-2012) Mohammad Sarwar Jamal, Ph.D**, Post-doctoral Fellow, University of Wisconsin-Madison, WI, USA. Currently, Assistant Professor, King Abdul Aziz University Science and Technology, Saudi Arabia.
9. **(2010-2015) Ashok Singh, Ph.D**, Post-doctoral Fellow, Department of Human Oncology, University of Wisconsin-Madison, WI, USA.
10. **(2010-2015) Anupma Singh, Ph.D**, Post-doctoral Fellow, Department of Human Oncology, University of Wisconsin-Madison, WI, USA.
11. **(2013-2015) Maggie Jones**, Undergraduate student, UW-Madison, WI.
12. **(2015-2017) Aditya Ganju**, Graduate Student, Pharmaceutical Sciences, UTHSC, Memphis
13. **(2015-till date): Vivek Kumar Kashyap, Ph.D**, Post-doctoral Fellow, Pharmaceutical Sciences, UTHSC, Memphis
14. **(2015-till date): Mohammad Sikander, Ph.D**, Post-doctoral Fellow, Pharmaceutical Sciences, UTHSC, Memphis
15. **(2017-till date): Advit Shetty**, Graduate Student, Pharmaceutical Sciences, UTHSC, Memphis
16. **(2017-till date): Mehdi Chaib**, Graduate Student, Pharmaceutical Sciences, UTHSC, Memphis
17. **(2016-till data): Andrew Messy**, Graduate Student, Pharmaceutical Sciences, UTHSC, Memphis.

Professional Development and Service

1. Chaired in a scientific conference on "Impact of environment toxicants on human health", 30th Annual Conference of the Society of Toxicology (STOX) India, Hamdard University, New Delhi, India, Dec 9-11, 2010.
2. Editorial board member of **1) Cancer and Clinical Research**, **2) Journal of Endocrine disorders**, and **3) Indian Journal of Pathology and Oncology**.

3. Adhoc reviewer of **1)** Cancer Research, **2)** Molecular Cancer Therapeutics, **3)** Clinical Cancer Research, **4)** Cancer Prevention Research, **5)** Food and Chemical Toxicology, **6)** FASEB Journal, **7)** Life Science, **8)** Mutation Research, **9)** Cancer Letter, **10)** Toxicology and Applied Pharmacology, **11)** PLoS One, **12)** Molecules, **13)** Drug Design Development and Therapy, **14)** Onco Targets and Therapy, **15)** International Journal of Nanomedicine, **16)** Biochemical Pharmacology, **17)** International Journal of Oral Science, **18)** Tumor Biology, **19)** Nutrition, **20)** The Journal of Clinical & Experimental Oncology, **21)** Molecular Oncology, **22)** Oncotarget, and **23)** CellProliferation

Completed grant:

UTHSC Seed grant (\$35,000) 06/01/17 -05/30/19 -

Title: α -Mangostin: A novel therapeutic agent for pancreatic cancer treatment

Role: PI

Dean Seed grant (\$15, 000) (PI: Hafeez BB) 11/01/18 – 10/31/19

Title: Targeting ribosome biogenesis and tumor microenvironment for pancreatic cancer treatment

Role: PI

DOD PC130870 (Chauhan-PI) 09/21/2014-08/20/2018

Title: A Novel Therapeutic Modality for Advanced Stage Prostate Cancer Treatment

Role: Collaborator

1R01CA210192-01 (Chauhan-PI)

Ongoing Research Support

DOD PC130870 (Chauhan-PI) 09/21/2014-08/20/2018

Title: A Novel Therapeutic Modality for Advanced Stage Prostate Cancer Treatment

Role: Collaborator

1R01CA210192-01 (Chauhan-PI)

Dean Seed grant (\$15, 000) (PI: Hafeez BB) 11/01/18 – 10/31/19

Title: Targeting ribosome biogenesis and tumor microenvironment for pancreatic cancer treatment

Role: PI

Oxnard Foundation (\$225,000) 03/01/19-02/28/21

Title: Targeting ribosome biogenesis and tumor microenvironment for pancreatic cancer treatment

Role: Co-PI

UTRF grant (\$15,000) (PI: Kurosu M) 01/01/19 -10/30/19

Role: Co-investigator

Grants Under Review 2019

DOD MPI (PI: Hafeez; Co-PI: Chauhan SC; Co-PI: Jaggi M)

Title: Novel therapeutic strategy for metastatic castration resistant prostate cancer

Role: Co-PI

NIH/R01 (PI: Chauhan S)

Title: Molecular determinants in liver cancer health disparity

Role: Co-Investigator

DOD Prostate cancer health disparity 2018 (**PI: Hafeez BB**)

Title: Role of PKC ϵ in prostate cancer health disparity

NIH/R01

Title: Novel Therapeutic strategy for metastatic castration resistant prostate cancer (MPI

Role: Co-PI

NIH/R21/2019 (PI: Hafeez BB)

Targeting ribosome biogenesis and tumor microenvironment for pancreatic cancer treatment

Role: PI