

CURRICULUM VITAE

Shishir Shishodia, Ph.D.

Professor

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EDUCATION/TRAINING

B. S.	1991	Ranchi University, Ranchi, India.	Zoology (Honors)
M. S.	1993	Banaras Hindu University, Varanasi, India.	Zoology (Biochemistry)
Ph. D.	1997	Banaras Hindu University, Varanasi, India.	Biotechnology
PDF	2001-05	UT MD Anderson Cancer Center, Houston, TX	Cytokine Research

FIELDS OF INTEREST

- 1) Teaching: Cell Biology, Histology, Biochemistry, Experimental Biology
- 2) Research: Signal Transduction, Cancer Biology, Transcription Factors, Inflammation, Chemoprevention, Natural Products, Microgravity and Radiation Exposure

EMPLOYMENT

Interim Associate Dean for Academic Affairs, College of Science, Engineering and Technology, TSU, Sep 2012-onwards

Interim Chair, Environmental and Interdisciplinary Sciences

College of Science, Engineering and Technology, TSU, Sep 2015-onwards

Professor, Department of Biology, Texas Southern University, Sep 2016-onwards

Associate Professor, Department of Biology, Texas Southern University, Sep 2011-Aug 2016

Asst. Professor (Tenure-Track), Department of Biology, Texas Southern University, Houston, Texas, USA, Sep 2005- Aug 2011

Postdoctoral Fellow, Cytokine Research Section, Dept. of Bio-immunotherapy/ Experimental Therapeutics, The University of Texas MD Anderson Cancer Center, Houston, Texas, USA, Jul 2001 to Aug 2005

Lecturer (Tenured), Department of Zoology, Patna University, Patna, India, Nov 1996 to Jun 2001

Senior Research Fellow (CSIR-NET), School of Biotechnology, Banaras Hindu University, Varanasi, India, Sep 1996 to Nov 1996

Junior Research Fellow (CSIR-NET), School of Biotechnology, Banaras Hindu University, Varanasi, India, Sep 1994 to Aug 1996

ORGANIZATIONS: MEMBERSHIPS AND OFFICES HELD, DATES

American Association of Cancer Research, Associate Member, 2004

Texas Academy of Science, Member, 2009

Texas Association of Advisors of Health Professions, 2011

FELLOWSHIPS AND HONORS: DATES

2007 - Summer Research Fellowship, Texas Southern University and University of Texas Graduate School of Biomedical Sciences Undergraduate Collaborative Training Program in Prostate Cancer Research sponsored by the Department of Defense, USA.

2005 - The University of Texas M.D. Anderson Cancer Center Odyssey Special Fellow Award sponsored by the Theodore N. Law Award for Scientific Achievement.

1996 - Senior Research Fellowship Award, Joint University Grants Commission and the Council of Scientific and Industrial Research, New Delhi, India.

1994 - Junior Research Fellowship Award, Joint University Grants Commission and the Council of Scientific and Industrial Research, New Delhi, India.

AWARDS AND PRIZES: DATES

2014 – Distinguished Advisement Award, College of Science and Technology, Texas Southern University

2014 – Dean’s Leadership Award for Outstanding Contribution to the College of Science and Technology, Texas Southern University

2012 – Distinguished Service Award, College of Science and Technology, Texas Southern University

2011 – Dean’s Leadership Award for Developing the College of Science and Technology Annual Report, Texas Southern University

2010 – Certificate of Exceptional Merit in recognition of being awarded the Scholarly Research/Creative Activities Award, Texas Southern University

2010 – Distinguished Research Award, College of Science and Technology, Texas Southern University

2010 – Dean’s Leadership Award for Developing the College of Science and Technology Newsletter, Texas Southern University

2008 - 1st place in Faculty Oral Presentation, Texas Southern University Research Week.

1993 - BHU Medal for highest grades in M.S. (Zoology) program, Banaras Hindu University, Varanasi, India.

1993 - Ramakrishna Reddy Award for highest grade in Biochemistry special paper in the M. S. (Zoology) program, Banaras Hindu University, Varanasi, India.

1993 - AB Mishra Memorial Endowment Award, first in the order of merit in the M.S. (Zoology) program, Banaras Hindu University, Varanasi, India.

1993 - Book Award from Jawaharlal Nehru Memorial Fund for Academic Distinction in M.S. (Zoology) program at Banaras Hindu University, Varanasi, India.

GRANTS:

Active Support:

1. National Science Foundation Research Infrastructure in Science and Engineering (HRD 1829184)

Title: Characterization, Dynamics, and Biological Impact Indoor Airborne Dust Exposure Role in project: Co-PI (PI: Dr. Daniel Vranceanu)

Dates and costs of entire project: 10/01/18-09/30/21, \$1M (Total)

Major goals: Conduct basic science research that leads to improved understanding of the general biological principles guiding eukaryotic and prokaryotic cellular responses to indoor airborne dust.

2. National Science Foundation Research Infrastructure in Science and Engineering (HRD 1345173)

Title: Characterization of Bio-molecular Response to Environmental Stress

Role in project: PI

Dates and costs of entire project: 03/15/14-02/28/19, \$1M (Total)

Major goals: Conduct basic science research that leads to improved understanding of the general biological principles guiding eukaryotic and prokaryotic cellular responses to environmental stress.

3. National Science Foundation Targeted Infusion Project (HRD 1622993)

Title: Infusion of Geospatial Informatics to Enhance an Undergraduate Biological Science Program.

Role in project: Co-PI (PI: Dr. Maruthi Sridhar Balaji Bhaskar)

Dates and costs of entire project: 09/01/16-08/31/19, \$399,999.00 (Total)

Major goals: 1) promote student interest in geospatial informatics thereby addressing the global need for an increasingly diversified geospatial workforce, 2) foster critical thinking and enhance problem solving skills to better prepare students for future careers demanding geospatial skills in a range of fields, 3) equip students with cutting edge geospatial technology skills to collect field data, create and interpret geospatial maps, and 4) increase the number of underrepresented students applying for graduate programs and internships in geospatial-related STEM-fields.

4. Joint Admissions Medical Program (TMDAS, TX)

Role in project: TSU JAMP Faculty Director (2010-2019), \$13000/year

Major goals: Assist with recruitment and provide mentorship to JAMP students

Completed:

1. HCOP Grant (Sub-Award from UTMB, Galveston)(HCOP/MSMP; 1DH18HP23032-01-00)

Title: TSU and UTMB Medical School Matriculation Program

Role in project: TSU Project Director (PI: Dr. Lisa Cain)- 2011- 2015.

Major goals: Provide academic enrichment, motivation, and clinical exposure to rising undergraduate pre-medical students

2. NASA Group 4 URC - NNX10AQ16A (Old: NNX08BA47A)

Title: Center for Bio-nanotechnology and Environmental Research

Role in project: Project Principal investigator (PI/PD: Dr. Olufisayo Jejelowo)

Percent Effort: 25%

Dates and costs of entire project: 10/01/08-09/30/14, \$5M (Total)

Major goals: To identify the effect of microgravity and radiation on carcinogenesis and develop countermeasures. Training and development of students in STEM area

3. DOD-CDMRP PCRP – W81XWH-09-1-0271 01 Sub Award 24712/98040255

Title: Texas Southern University (TSU) and the Graduate School of Biomedical Sciences (GSBS) Undergraduate Collaborative Training Program in Prostate Cancer

Role in project: TSU Project Director (PI: Dr. Timothy J McDonnell)

Percent Effort: 25%

Dates and costs of entire project: 2008-2011, \$173,217 (Total)

Major goals: Provide comprehensive training in prostate cancer to aspiring young scientists from Texas Southern University

4. TSU Seed Grant

Title: Role of TNF Signaling in Proliferation, Invasion and Metastasis of Melanoma

Role in project: Principal investigator

Dates and costs of entire project: 01/09-08/31/08, \$15,000 (Total)

Dates and costs of current year: \$15,000 (Total)

Major goals: The major goals of these studies are to identify the role of TNF signaling in melanoma

5. TSU Seed Grant

Title: Targeting FOXO Transcription Factors by Natural Dietary Agents.

Role in project: Principal investigator

Dates and costs of entire project: 01/14/08-08/31/08, \$30,000 (Total)

Dates and costs of current year: \$30,000 (Total)

Major goals: The major goals of these studies are to identify distinct roles for dietary agents on FOXO signaling.

6. TSU Graduate School Supplemental Grant

Title: Curcumin inhibits the proliferation of SPEC-2 cells, a uterine papillary serous carcinoma cell line.

Role in project: Principal Investigator

Dates and costs of entire project: 01/14/08-08/31/08, \$2,000 (Total)

Dates and costs of current year: \$2,000 (Total)

7. TSU Seed Grant

Title: Suppression of Cigarette Smoke-Induced Carcinogenesis by Dietary Phytochemicals

Role in project: Principal Investigator

Dates and costs of entire project: 01/26/06-08/31/06, \$9,000 (Total)

Dates and costs of current year: \$9,000 (Total)

Major goals: The major goals of these studies are to identify distinct and/or synergistic roles for dietary agents on cigarette smoke-induced activation of NF- κ B.

8. The University of Texas M.D. Anderson Cancer Center Odyssey Special Fellow Award.

Title: Mechanism of cigarette smoke-induced carcinogenesis and its suppression by celecoxib and phytochemicals.

Role in project: Odyssey Special Fellow (Mentor: Bharat B. Aggarwal, Ph.D.)

Dates and costs of completed project: 01/01/05-08/31/05, \$20,000

Major goals: The major objective of this project was to investigate the effects of celecoxib in combination with dietary agents on smoking-induced carcinogenesis.

SCHOLARSHIP

(a) Books and Monographs

Books

1. Aggarwal BB, Surh Y-J, **Shishodia S (Editors)** The Molecular Targets and Therapeutic Uses of Curcumin in Health and Disease, Springer Science, New York. 2007
2. Aggarwal BB and **Shishodia S (Editors)** Resveratrol in Health and Disease. CRC Press, New York. 2005

Book chapters

1. Aggarwal BB, Bharti AC and **Shishodia S.** (2009) Tumor Necrosis Factor and its Family Members. In Protein Discovery. (Eds. Wadih Arap, Ph.D., Renata Pasqualini, Ph.D., Guy Salvesen, Ph.D and Vishwa Mohan Dixit, Ph. D.) Marcel Dekker. Pp 15-54.
2. **Shishodia S.**, Misra K, and Aggarwal BB. (2008) Turmeric as Cure(cumin): Promises, Problems, and Solutions, In Dietary Modulation of Cell Signaling, (Eds. Young-Joon Surh, Ph. D. and Lester Packer Ph. D.) CRC Press, USA.
3. **Shishodia S.**, Singh T, Chaturvedi MM. (2007) Modulation of Transcription Factors by Curcumin, In The Molecular Targets and Therapeutic Uses of Curcumin in Health and Disease (Eds. BB Aggarwal, Y-J Surh, S Shishodia (Editors), Springer Publishing Company, New York. (Adv Exp Med Biol. 2007; 595:127-48).
4. **Shishodia S.**, Chaturvedi MM, and Aggarwal BB. (2007) Curcumin in Cancer Therapy, In Current Problems in Cancer (Ed. Peter AS Johnstone), Elsevier, USA.
5. Aggarwal BB, Bhatt ID, Ichikawa H, Ahn KS, Sethi G, Sandur SK, Natarajan C, Navindra Seeram N, and **Shishodia S.** (2007) Curcumin: Biological and Medicinal Properties, In Turmeric (Ed. P.N. Ravindran), CRC Press, New York, USA
6. **Shishodia S.**, Adams L, Bhatt ID, and Aggarwal BB (2006) Anticancer Potential of the Pomegranate and Its Components. In Pomegranate (Ed: Seeram N, Schulman R), CRC Press, New York, USA
7. **Shishodia S.** and Aggarwal BB (2005) Resveratrol: a polyphenol for all seasons. In Resveratrol in Health and Disease. (Ed. Bharat B. Aggarwal and Shishir Shishodia), CRC Press, New York, USA.
8. Aggarwal BB, **Shishodia S.**, Takada Y, Jackson-Bernitsas D, Ahn KS, Sethi G, and Ichikawa H (2005) TNF-Blockade: An Inflammatory Issue (Eds. Numerof R., Asadullah K., and Dinorello CA. Proceedings of the “Cytokines as Potential Therapeutic Targets for Inflammatory Skin Diseases”
9. Seeram NP, Ichikawa H, **Shishodia S.**, Aggarwal BB. (2005) Preventive and therapeutic effects of plant polyphenols through suppression of Nuclear Factor-Kappa B. In Proceedings of the International Symposium on Free Radicals and Health: Molecular Intervention and Protection of Lifestyle-Related Diseases (ed. By Midori Hiramatsu, Ph.D); Marcel-Dekker Publication
10. Aggarwal BB, Kumar A, Aggarwal MS and **Shishodia S.** (2004) Curcumin Derived From Turmeric (*Curcuma longa*): A Spice for All Seasons. In Phytochemicals in Cancer Chemoprevention.(Eds. Debasis Bagchi, Ph.D., and Harry G. Preuss, M.D.) CRC Press.

(b) Articles (Peer-reviewed full-length research articles, 71)

1. Bado M, Azu N, Keita D, **Shishodia S.**, Rosenzweig JA (2018) Mixed Bacterial Responses to Dust Exposure in an A549 Eukaryotic Co-culture. Applied Microbiology and Biotechnology, Accepted AMAB-D-18-00367R1.
2. Rosenzweig JA, Balaji Bhaskar MS and **Shishodia S.** (2018) The Impact of Using Geographic Information Systems Technology on Students' Understanding of Epidemiology. The American Biology Teacher, Vol. 80, No 3, pages. 191–197.

3. Bado M, Kwende S, **Shishodia S**, Rosenzweig JA (2017). Impact of dust exposure on mixed bacterial cultures and during eukaryotic cell co-culture infections. *Appl Microbiol Biotechnol.* 2017 Sep;101(18):7027-7039.
4. Rosenzweig JA, Vranceanu D, Hwang H-M and **Shishodia S** (2016) Vertical Alignment of Educational Opportunities for STEM Learners: Evaluating the Effects of Road Dust on Biological Systems, *The American Biology Teacher* 78(9):710-716.
5. **Shishodia S**, Azu N, Rosenzweig JA, Jackson DA (2015) Guggulsterone for chemoprevention of cancer. *Current Pharmaceutical Design*, 2016;22(3):294-306.
6. Suraju MO, Lalinde-Barnes S, Sanamvenkata S, Esmaeili M, **Shishodia S**, Rosenzweig JA (2015) The effects of indoor and outdoor dust exposure on the growth, sensitivity to oxidative stress, and biofilm production of three opportunistic bacterial pathogens. *Science of the Total Environment*, 10; 538: 949-958.
7. **Shishodia S (2013)** Molecular mechanisms of curcumin action: Gene expression. *Biofactors*, 2013 Jan; 39(1):37-55.
8. Lewis A, Jejelowo OA, **Shishodia S** (2011) Role of curcumin against modeled microgravity-induced inflammatory pathways, *Proceedings of the 62nd International Astronautical Congress*, Cape Town, South Africa, IAC-11, A1, 7, 14, x11568.
9. Tariq MA, Sodipe A, Ramesh G, Wu H, Zhang Y, **Shishodia S**, Pourmand N, Jejelowo O. (2011) The effect of acute dose charge particle radiation on expression of DNA repair genes in mice. *Mol Cell Biochem.* 349(1-2):213-8.
10. **Shishodia S**, Harikumar KB, Dass S, Ramawat KG, Aggarwal BB (2008).The guggul for chronic diseases: ancient medicine, modern targets. *Anticancer Res.* 28:3647-64.
11. Aggarwal BB, Sethi G, Baladandayuthapani V, Krishnan S, **Shishodia S.** (2007) Targeting cell signaling pathways for drug discovery: An old lock needs a new key. *Journal of Cellular Biochemistry.* 102(3):580-92
12. **Shishodia S**, Chaturvedi MM, Aggarwal BB. (2007) Role of curcumin in cancer therapy. *Current Problems in Cancer.* 31(4):243-305.
13. **Shishodia S**, Singh T, Chaturvedi MM. 2007. Modulation of transcription factors by curcumin. *Adv Exp Med Biol.* 595:127-48.
14. Sandur SK, Ahn KS, Ichikawa H, Sethi G, **Shishodia S**, Newman RA, Aggarwal BB. (2007) Zylflamend, a polyherbal preparation, inhibits invasion, suppresses osteoclastogenesis, and potentiates apoptosis through down-regulation of NF-kappa B activation and NF-kappa B-regulated gene products. *Nutrition and Cancer.* 57(1):78-87.
15. **Shishodia S**, Sethi G, Ahn KS, and Aggarwal BB. (2007) Guggulsterone Inhibits Tumor Cell Proliferation, Induces S-Phase Arrest, and Promotes Apoptosis Through Activation of c-Jun N-Terminal Kinase, Suppression of Akt, and Downregulation of Antiapoptotic Gene Products in Human Leukemia Cells. *Biochemical Pharmacology* 2007 Jun 30;74(1):118-30. Epub 2007 Mar 30.
16. Shirisha K, Patole J, Padhye S, Sinn E, **Shishodia S**, Aggarwal BB. (2007) Copper complexes of Henna-sulforaphane conjugates as potent antiproliferative agents against human myeloma KBM-5 cells through blockade of transcription factor NF-κB. *Letters in Drug Design & Discovery* . 4(4): 257-262.
17. Sawhney M, Rohatgi N, Kaur J, **Shishodia S**, Sethi G, Gupta SD, Deo SV, Shukla, NK, Aggarwal BB, Ralhan R.(2007) Expression of NF-kappaB parallels COX-2 expression in oral precancer and cancer: Association with smokeless tobacco. *International Journal of Cancer.* 120(12):2545-56.
18. Aggarwal BB, Banerjee S, Bharadwaj U, Sung B, **Shishodia S**, Sethi G. (2007) Curcumin induces the degradation of cyclin E expression through ubiquitin-dependent pathway and up-regulates cyclin-dependent kinase inhibitors p21 and p27 in multiple human tumor cell lines. *Biochemical Pharmacology.* 73(7):1024-32.

19. Koul D, Shen R, **Shishodia S**, Takada Y, Bhat KP, Reddy SA, Aggarwal BB, Yung WK. (2007) PTEN down regulates AP-1 and targets c-fos in human glioma cells Via PI3-kinase/Akt pathway. *Molecular Cellular Biochemistry*. 300(1-2):77-87.
20. Bhardwaj A, Sethi G, Vadhan-Raj S, Bueso-Ramos C, Takada Y, Gaur U, Nair AS, **Shishodia S**, Aggarwal BB. (2007) Resveratrol inhibits proliferation, induces apoptosis, and overcomes chemoresistance through down-regulation of STAT3 and nuclear factor-kappaB-regulated antiapoptotic and cell survival gene products in human multiple myeloma cells. *Blood*. 109(6):2293-302.
21. Tang X, Liu D, **Shishodia S**, Ozburn N, Behrens C, Lee JJ, Hong WK, Aggarwal BB, Wistuba II. (2006) Nuclear factor-kappaB (NF-kappaB) is frequently expressed in lung cancer and preneoplastic lesions. *Cancer*. 107(11):2637-46.
22. Nair AS, **Shishodia S**, Ahn KS, Kunnumakkara AB, Sethi G, Aggarwal BB. (2006) Deguelin, an Akt Inhibitor, Suppresses I{kappa}B{alpha} Kinase Activation Leading to Suppression of NF-{kappa}B-Regulated Gene Expression, Potentiation of Apoptosis, and Inhibition of Cellular Invasion. *Journal of Immunology*. 177(8):5612-22.
23. Sharma C, Kaur J, **Shishodia S**, Aggarwal BB, Ralhan R. (2006) Curcumin down regulates smokeless tobacco-induced NF-kappaB activation and COX-2 expression in human oral premalignant and cancer cells. *Toxicology*. 228(1):1-15.
24. Ahn KS, Sethi G, **Shishodia S**, Sung B, Arbiser JL, Aggarwal BB. (2006) Honokiol potentiates apoptosis, suppresses osteoclastogenesis, and inhibits invasion through modulation of nuclear factor-kappaB activation pathway. *Molecular Cancer Research*. 4(9):621-33.
25. Aggarwal BB, **Shishodia S**, Sandur SK, Pandey MK, Sethi G. (2006) Inflammation and cancer: How hot is the link? *Biochemical Pharmacology*. 72(11):1605-21.
26. Ichikawa H, Takada Y, **Shishodia S**, Bolleddula Jayaprakasam B, Nair MG, and Aggarwal BB (2006) Diacetylwithaferin A Potentiates Apoptosis, Inhibits Invasion, and Abolishes Osteoclastogenesis through Suppression of Nuclear Factor NF-κB Activation and NF-κB-Regulated Gene Expression. *Molecular Cancer Therapeutics*. 5(6):1434-45.
27. Manna SK, Rangasamy T, Wise K, Sarkar S, **Shishodia S**, Biswal S, Ramesh GT (2005) Long Term Cigarette Smoke Activates Nuclear Transcription Factor kappa B, Activator Protein-1, and Stress Responsive Kinases in Mouse Brain. *Biochemical Pharmacology*. 71(11):1602-9
28. Aggarwal BB, **Shishodia S**. Molecular targets of dietary agents for prevention and therapy of cancer. *Biochemical Pharmacology*. 71(10):1397-421.
29. Koul D, Shen R, Bergh S, Sheng X, **Shishodia S**, Lafortune TA, Lu Y, de Groot JF, Mills GB, Yung WK. (2006) Inhibition of Akt survival pathway by a small-molecule inhibitor in human glioblastoma. *Molecular Cancer Therapeutics*. 5(3):637-44.
30. **Shishodia S**, Konopleva M, Andreeff M, and Aggarwal BB. (2006) A Synthetic Triterpenoid Methyl-2-cyano-3,12-dioxooleana-1,9-dien-28-oate (CDDO-Me) Inhibits IκBα Kinase And Enhances Apoptosis Induced by TNF and Chemotherapeutic Agents Through Downregulation of Expression of NF-κB-Regulated Gene Products in Human Leukemic Cells. *Clinical Cancer Research*. 12(6):1828-1838.
31. Aggarwal BB, Ichikawa H, Garodia P, Weerasinghe P, Sethi G, Bhatt I, Pandey MK, **Shishodia S**, and Nair MG (2006) From Traditional Ayurvedic Medicine to Modern Medicine: Identification of Therapeutic Targets For Suppression of Inflammation and Cancer. *Expert Opinions on Therapeutic Targets*. 10(1):87-118.
32. **Shishodia S** and Aggarwal BB (2006) Diosgenin Inhibits Osteoclastogenesis, Invasion, And Proliferation Through The Downregulation of Akt, IκB Kinase Activation And NF-κB-Regulated Gene Expression. *Oncogene*. 25(10):1463-73.
33. Aggarwal S, Ichikawa H, Takada Y, Sandur SK, **Shishodia S**, and Aggarwal BB (2006) Curcumin (Diferuloylmethane) Downregulates Expression of Cell Proliferation,

- Antiapoptotic and Metastatic Gene Products Through Suppression of I κ B α Kinase and AKT Activation. *Molecular Pharmacology*. 69(1):195-206.
34. **Shishodia S**, Sethi G, and Aggarwal BB (2005) Curcumin: getting back to the roots. Proceedings of the "First International Conference on Natural Products and Molecular Targets" to be published in *The Annals of the New York Academy of Sciences* 1056:206-17.
 35. **Shishodia S**, Gutierrez AM, Lotan R, and Aggarwal BB. (2005) Inhibition of I κ B α kinase by N-(4-hydroxyphenyl) retinamide downregulates NF- κ B-regulated angiogenic and antiapoptotic gene products; and enhances apoptosis. *Cancer Research*, 65:9555-65.
 36. Aggarwal BB, **Shishodia S**, Takada Y, Banerjee S, Newman R, Bueso-Ramos CE, and Price JE (2005) Curcumin Suppresses the Paclitaxel-induced NF- κ B Pathway in Breast Cancer Cells and Inhibits Lung Metastasis of Human Breast Cancer in Nude Mice. *Cinical Cancer Research*, 11(20):7490-8.
 37. **Shishodia S**, Amin HM, Lai R, and Aggarwal BB. (2005) Curcumin (Diferuloylmethane) Inhibits Constitutive NF- κ B Activation, Induces G1/S Arrest, Suppresses Proliferation and Induces Apoptosis in Mantle Cell Lymphoma. *Biochemical Pharmacology*. 70:700-713.
 38. Siwak DR, **Shishodia S**, Aggarwal BB, and Kurzrock R (2005) Curcumin-induced antiproliferative and proapoptotic effect in melanoma cells is associated with suppression of IKK and NF- κ B activity, and is independent of the B-Raf/MEK/ERK and Akt pathways. *Cancer*. 104:879-890.
 39. Amit-Vazina M, **Shishodia S**, Harris D, Van Q, Weber D, Alexanian R, Talpaz M, Aggarwal BB and Estrov Z. (2005) Atiprimod blocks STAT3 phosphorylation and induces apoptosis in multiple myeloma cells. *British Journal of Cancer*. 93:70-80.
 40. **Shishodia S**, Takada Y, and Aggarwal BB. (2005) Therapeutic Implications of Gene Deletion of Ligands and Receptors of Members of TNF Superfamily. *Medicinal Chemistry Reviews – Online*. 2(2):163-175.
 41. Aggarwal BB and **Shishodia S**. (2004) Suppression of Nuclear Factor- κ B activation pathway by spice-derived phytochemicals:reasoning for seasoning. *Annals of the New York Academy of Sciences*. 1030: 434-441.
 42. Aggarwal BB, Bhardwaj A, Aggarwal RS, Seeram NP, **Shishodia S**, and Takada Y (2004) Role of Resveratrol in Prevention and Therapy of Cancer: Preclinical and Clinical Studies. *Anticancer Research*. 24(5A):2783-840.
 43. Li L, Aggarwal BB, **Shishodia S**, Abbruzzese J, and Kurzrock R. (2004). Nuclear Factor- κ B and I κ B Kinase are Constitutively Active in Human Pancreatic Cells and their Down-regulation by Curcumin (diferuloyl methane) is Associated with Suppression of Proliferation and Induction of Apoptosis. *Cancer*. 101(10): 2351-62.
 44. **Shishodia S**, and Aggarwal BB. (2004) Guggulsterone Inhibits NF- κ B and I κ B α Kinase Activation, Suppresses Expression of Antiapoptotic Gene Products and Enhances Apoptosis. *Journal of Biological Chemistry*. 279(45): 47148-47158.
 45. **Shishodia S**, and Aggarwal BB. (2004). Cyclooxygenase (COX)-2 Inhibitor Celecoxib Abrogates Cigarette Smoke-Induced NF- κ B Activation Through Inhibition of Activation of I κ B α Kinase Human Non-small Cell Lung Carcinoma: Correlation with Suppression of Cyclin D1, COX-2, and Matrix Metalloproteinase-9. *Cancer Research* 64: 5004-5012.
 46. **Shishodia S**, Koul D and Aggarwal BB. (2004)) Cyclooxygenase (COX)-2 Inhibitor Celecoxib Abrogates Tumor Necrosis Factor-Induced NF- κ B Activation Through Inhibition of Activation of I κ B α Kinase and Akt in Human Non-small Cell Lung Carcinoma:Correlation with suppression of COX2 synthesis *Journal of Immunology*. 173(3):2011-22.
 47. **Shishodia S**, and Aggarwal BB (2004) Nuclear Factor- κ B: A Friend or a Foe in Cancer? *Biochemical Pharmacology*. 68(6), 1071-1080.

48. **Shishodia S**, and Aggarwal BB. (2004) Nuclear factor-kappaB activation mediates cellular transformation, proliferation, invasion angiogenesis and metastasis of cancer. **Cancer Treat. Res.** 119:139-73.
49. Bharti AC, **Shishodia S**, Reuben JM, Weber D, Alexanian R, Raj-Vadhan S, Estrov Z, Talpaz M, and Aggarwal BB. (2004) Nuclear Factor- κ B and STAT3 are Constitutively Active in CD138+ Cells Derived from Multiple Myeloma Patients and Their Suppression Leads to Apoptosis. **Blood** 103(8): 3175-3184.
50. Bueso-Ramos CE, Rocha FC, **Shishodia S**, Kantarjian HM, Medeiros LJ, Vadhan-Raj S, Estrov Z, Smith TL, Nguyen MH, and Aggarwal BB. (2004) High Expression of Constitutively Active Nuclear- κ B relA Transcription Factor is Present in Blasts of Acute Myeloid Leukemia. **Human Pathology**, 35(2): 246-53
51. Bharti AC, Takada Y, **Shishodia S**, and Aggarwal BB. (2004) Evidence that RANK Ligand can suppress cell proliferation and induce apoptosis through activation of a Nuclear Factor- κ B-independent and TRAF6-dependent mechanism. **Journal of Biological Chemistry**. 279, 6065-6076.
52. Donato NJ, Wu JY, Stapley J, Lin H, Arlinghaus R, Aggarwal BB, **Shishodia S**, Albitar M, Hayes K, Kantarjian H, and Talpaz M. (2004) Imatinib Mesylate Resistance Through BCR-ABL Independence in Chronic Myelogenous Leukemia. **Cancer Research**, 64(2): 672-7.
53. Ashikawa K, **Shishodia S**, Fokt I, Priebe W, and Aggarwal BB. (2004) Evidence That Activation of Nuclear Factor- κ B Is Essential for Doxorubicin-Induced Cell Death in Myeloid and Lymphoid Cells. **Biochemical Pharmacology**, 67, 353-364.
54. Aggarwal BB, Takada Y, **Shishodia S**, Gutierrez AM, Oommen OV, Ichikawa H, Baba Y, and Kumar A. (2004) Nuclear transcription Factor NF- κ B: Role in Biology and Medicine. **Indian Journal of Experimental Biology**. 42, 341-353.
55. Thompson MP, Aggarwal BB, **Shishodia S**, Estrov Z, and Kurzrock R. (2003) Autocrine lymphotoxin production in Epstein-Barr Virus (EBV)-immortalized B-cells: induction via NF- κ B activation mediated by EBV-derived Latent Membrane Protein 1. **Leukemia**, 17:2196-2201.
56. **Shishodia S**, Majumdar S and Aggarwal BB. (2003) Ursolic Acid Inhibits Nuclear Factor- κ B Activation Induced by Carcinogenic Agents Through Suppression of I κ B α Kinase and p65 Phosphorylation: Correlation with Downregulation of COX2, MMP-9 and CyclinD1. **Cancer Research** 63, 4375-4383.
57. **Shishodia S**, Potdar P, Gairola GC and Aggarwal BB (2003) Curcumin downregulates cigarette smoke condensate-induced NF-kappa B activation through inhibition of I κ B α kinase in human lung cancer cells: correlation with suppression of COX2 and MMP-9. **Carcinogenesis** 24(7), 1269-1279.
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(c) Abstracts in Conference Proceedings

1. Dayana Abdullah Smoot, Nkem Azu, and **Shishir Shishodia**. Assessment of DNA Damage response gene expression in normal lung cells post exposure to Road Dust. 2018 Emerging Researchers National Conference in STEM, Washington, DC, February 22-24, 2018.
2. Nkem Azu, Djene Keita, **Shishir Shishodia**, Identification of hypoxic genes induced in non-cancer lung cells after exposure to Platinum Group Metal Salts, 2017 AAAS Emerging Researchers Network Conference, Washington, DC, March 02-04, 2017.
3. Djene Keita, Nkem Azu, **Shishir Shishodia**. House Dust and Triclosan Activated MAP Kinase Pathways in Lung Epithelial Cells, 2016 Emerging Researchers National Conference in STEM, Washington, DC, February 25-27, 2016.
4. **Nkem Azu**, Selina Hernandez, Amrutha Immadi, Sachindra Sanamvenkata, **Shishir Shishodia**, Road Dust Containing Platinum Group Elements Activated, MAPK-JNK Pathway in Lung Epithelial Cells *in vitro*, 2015 AAAS Emerging Researchers Network Conference, Washington, DC, February 19-21, 2015. (**Nkem was place second for graduate students oral presentation**)
5. Nkem Azu and **Shishir Shishodia**, Road Dust Activated ERK in Lung Epithelial Cells *in vitro*, 118th Annual Meeting of the Texas Academy of Science, University of Incarnate Word at San Antonio, Texas, March 6-8, 2015

6. Toluwani Adebayo and **Shishir Shishodia**, Effect of Platinum Group Elements from Road Dust on P38 Protein Expression, 2014 Texas Southern University Summer Research Program Closing Ceremonies, Texas Southern University, Houston, Texas, August 1st, 2014.
7. Anita Ofori, Jelili Adebisi, and **Shishir Shishodia**, Platinum Group Metals found in Road Dust activate p42/44 MAP Kinase Pathway, 2014 Texas Southern University Summer Research Program Closing Ceremonies, Texas Southern University, Houston, Texas, August 1st, 2014.
8. Selina Hernandez and **Shishir Shishodia**, Road dust activated Nuclear Factor kappa B in Lung Epithelial Cells, 2014 Texas Southern University Summer Research Program Closing Ceremonies, Texas Southern University, Houston, Texas, August 1st, 2014.
9. Amrutha Immadi and **Shishir Shishodia**, JNK Expression in Lung Epithelial Cells after Exposure to Platinum Group Elements found in Road Dust, 2014 Texas Southern University Summer Research Program Closing Ceremonies, Texas Southern University, Houston, Texas, August 1st, 2014.
10. Nkem Azu, Noella Ibekwe, **Shishir Shishodia**, Simulated Microgravity Induces Epigenetic Changes by Depleting DNMT1 in Murine Monocytes, 65th International Astronautical Congress, Toronto, Canada, September 29-October 3, 2014.
11. Nkem Azu, Noella Ibekwe, **Shishir Shishodia**. Simulated Microgravity Induces Epigenetic Changes by Depleting DNMT1 in Mouse Monocytes. TSU Research Week, Texas Southern University, Houston, TX, March 31-April 4, 2014.
12. Nkem Azu, Noella Ibekwe, **Shishir Shishodia**. Simulated Microgravity Induces Epigenetic Changes. 117th Annual Meeting of the Texas Academy of Science, Galveston, Texas, March 7, 2014.
13. Noella Ibekwe, Melissa Greene, Nkem Azu, **Shishir Shishodia**. Simulated Microgravity Induces Epigenetic Changes, UNT Research Symposium, University of North Texas Health Science Center, Fort Worth, TX, November 2, 2013.
14. Linda Noukeu, Noella Ibekwe, **Shishir Shishodia**. Simulated Microgravity Induced Apoptosis In Human T- Lymphocytes. TSU Research Week, Texas Southern University, Houston, TX, April, 2013.
15. Linda Noukeu, Noella Ibekwe, **Shishir Shishodia**. Simulated Microgravity Induced Apoptosis In Human T- Lymphocytes. North Texas Research Symposium, University of North Texas Health Science Center, Fort Worth, TX, November 3, 2012.
16. Anita Lewis, Sarah Munyu, Olufisayo A. Jejelowo, Ayodotun Sodipe, and **Shishir Shishodia**. Activation of Pro-inflammatory Transcription Factor by Modeled Microgravity and High-Energy Particle Radiation, 114th Annual Meeting of the Texas Academy of Science, St. Edwards University, Austin, Texas, March 3-5, 2011.
17. Sarah Munyu, Anita Lewis, Emmanuel Obi, Tuan Phan, Olufisayo A. Jejelowo, and **Shishir Shishodia**. Structure, mechanism, and anticancer potential of the isothiocyanate diruthenium complex (3,1) Ru₂(F3ap)₄(NCS) 1, 114th Annual Meeting of the Texas Academy of Science, St. Edwards University, Austin, Texas, March 3-5, 2011.
18. Jejelowo AO, Sodipe AO, Wu H, Zhang Y, Jejelowo OA, **Shishodia S**. High Energy Particle Radiation Activates Inflammatory Pathways, 18th IAA Humans in Space Symposium, Houston, TX, April 11-15, 2011.
19. Anita Lewis, Philys Johnson, Olufisayo A Jejelowo, Ayodotun Sodipe, and **Shishir Shishodia** "The Prospective Function of Curcumin Against the Negative Effects of Microgravity" Astrobiology Science Conference, Houston, Texas, April 26, 2010.
20. Georgette Rolle, Sarah Munyu, Olufisayo A Jejelowo, Ayodotun Sodipe, and **Shishir Shishodia** High Energy Radiation Induced Activation of COX-2 and MMP-9 is Mediated by NF-kappaB" Astrobiology Science Conference, Houston, Texas, April 26, 2010.
21. Muhammad Akram Tariq, **Shishir Shishodia**, Govindarajan Ramesh, Ayodotun Sodipe, Olufisayo Jejelowo, Nader Pourmand (2010). DNA Repair Genes Expression Analysis of

- Acute Dose charge Particle Radiation, Astrobiology Science Conference, Houston, Texas, April 26, 2010.
22. Anita Lewis, Philys Johnson, Olufisayo A Jejelowo, Ayodotun Sodipe, and **Shishir Shishodia** “Natural Products Against The Negative Effects Of Microgravity” 113th Annual Meeting of the Texas Academy of Science, Tarleton State University, Stephenville, Texas, March 4-6, 2010.
 23. Rolle, Georgette, Jejelowo, Olufisayo A, Sodipe, Ayodotun and **Shishodia, Shishir**. “High Energy Radiation and Microgravity- Induced Epigenetic Changes : Reversal and Suppression By Natural Agents”. 112th Annual Meeting of the Texas Academy of Science, Texas Tech University, Junction, Texas, March 5-7, 2009.
 24. Johnson, Philys, Jejelowo, Olufisayo A., Sodipe, Ayodotun and **Shishodia, Shishir**. “Potential role of natural products against High Energy Radiation”. 112th Annual Meeting of the Texas Academy of Science, Texas Tech University, Junction, Texas, March 5-7, 2009.
 25. Olufisayo Jejelowo, Osiyemi T, **Shishodia S**. Identification Of Novel Phytochemical For Suppression Of Breast Cancer. Association of Minority Health Professions Schools, New Orleans, Louisiana. March 19-22, 2008 (presenter number 42)
 26. Tang X, Soch E, **Shishodia S**, Ozburn N, Liu D, Lee JJ, Hong WK, Aggarwal BB, Wistuba II. Immunohistochemical Analysis Indicates that Nuclear Factor- κ B (NF- κ B) is Frequently Activated in Lung Cancer. American Association of Cancer Research Annual Meeting, Anaheim, California. April 16-20, 2005.
 27. Siwak DR, **Shishodia S**, Aggarwal BB, and Kurzrock, R. Curcumin-Induced Antiproliferative and Proapoptotic Effect in Melanoma Cells is Associated with Suppression of IKK and NF- κ B Activity, and is Independent of the B-Raf/MEK/ERK and Akt Pathways. American Association of Cancer Research Annual Meeting, Anaheim, California. April 16-20, 2005.
 28. **Shishodia S**, Ichikawa H, Takada Y, Ahn KS, Wu TT, Izzo JJ, Ajani JA, and Aggarwal BB. Targeting Transcription Factor NF- κ B for Treatment of Esophageal Cancer. American Association of Cancer Research Annual Meeting, Anaheim, California. April 16-20, 2005.
 29. **Shishodia S**, Potdar PD, and Aggarwal BB. Curcumin (diferuloylmethane) downregulates cigarette smoke condensate-induced NF- κ B activation through inhibition of I κ B α kinase in human bronchial epithelial cells. Trainee Recognition Day, The University of Texas MD Anderson Cancer Center, Houston, Texas. May 2003.
 30. Aggarwal BB, Bharti AC, Banerjee S, Aggarwal S, Ashikawa K, **Shishodia S**. Nuclear Factor- κ B as a therapeutic target for chemoprevention and chemosensitization. 22nd Annual Convention of the IACR and International Symposium on Recent Advances in Cancer Causes and Control, Thiruvananthapuram, Kerala, India. January 10-12th, 2002
 31. Shrivastava, A, **Shishodia, S**. and Sodhi, A. Activation of peritoneal macrophages with fMLP: Role of PKC and PTK. XXII Annual conference of Indian Immunology Society. Dec. 15-17, 1995 at JNU, New Delhi, pp113.
 32. Singh, RAK., Sodhi, A., **Shishodia, S**. and Shrivastava, A. Tyrosine phosphatase are downstream to Serine/Threonine phosphatases in the signal transduction pathways of murine peritoneal macrophages. Indo-French Symposium on Immunomodulation. Dec. 10-13, 1995 at National Institute of Immunology, New Delhi, pp37.

(d) Invited Lectures

06/17/2014: Critical Issues in STEM Education: A Cache in the Brain or How to Study STEM, TSU Annual Conference on International Trends in Evidence Based Research on Teaching, Learning, and STEM Education, Marriott Westchase Hotel, 2900 Briarpark Drive, Houston, Texas, June 16-19, 2014.

- 04/07/2014:** Therapeutic Plants, TSU Research Week, Awards Function Lecture, Texas Southern University, Houston, Texas.
- 01/22/2014:** Medicinal Plants, Environmental and Interdisciplinary Sciences Seminar Series, Texas Southern University, Houston, Texas.
- 02/27/2012:** Natural Products Against Prevention and Therapy of Cancer, CBER Seminar Series, Texas Southern University, Houston, Texas.
- 04/13/2011:** High Energy Particle Radiation Activates Inflammatory Pathways, 18th IAA Humans in Space Symposium, Houston, Texas.
- 08/17/2010:** Round Table on the Professoriate: Strategies for Success in the Academy, 2010 Fall Opening Faculty Meetings, Texas Southern University, Houston, Texas.
- 03/05/2010:** Mechanism Of High Energy Radiation Induced Inflammation, 113th Annual Meeting of the Texas Academy of Science, Tarleton State University, Stephenville, Texas, March 4-6, 2010.
- 03/06/2009:** Natural products countermeasures against the adverse effects of radiation and microgravity. 112th Annual Meeting of the Texas Academy of Science, Texas Tech University, Junction, Texas, March 5-7, 2009.
- 08/10/2007:** FGF9 in Prostate Cancer Bone Metastases, Texas Southern University and University of Texas Graduate School of Biomedical Sciences Undergraduate Collaborative Training Program in Prostate Cancer Research, UTGSBS, Houston, Texas 77030.
- 11/13/2006:** Curcuminoids, Sabinsa on Wheels Trade Show, Frankfurt, Germany.
- 09/19/2006:** Curcuminoids in Health and Disease, Sabinsa on Wheels Trade Show, Sydney, Australia.
- 11/10/2005:** Curcumin: The Indian Solid Gold, Supply Side West Show, (Sabinsa Corporation), The Venetian, Las Vegas, NV.
- 06/17/2005:** Mechanism of cigarette smoke-induced carcinogenesis and its suppression, Odyssey Mini Symposium, The University of Texas MD Anderson Cancer Center, Houston, Texas 77030.
- 11/14/2004:** Curcumin derived from turmeric (*Curcuma longa*): a spice for all seasons. Third International Conference on Mechanisms of Action of Nutraceuticals, November 12-14, 2004, Haywood County, North Carolina.
- 01/16/2004:** Targeting Transcriptional Factors by Plant Polyphenols: Role in Prevention and Therapy of Cancer, Institutional Grand Rounds, The University of Texas MD Anderson Cancer Center, Houston, Texas 77030.
- 11/25/2003:** Identification of Novel Triterpenoids as Suppressor of Transcription Factor: Potential Role in Chemoprevention. Bioimmunotherapy Lecture Series, Department of Bioimmunotherapy, The University of Texas MD Anderson Cancer Center, Houston, Texas 77030.
- 03/25/2003:** NF- κ B as a Target for Cigarette Smoke-Induced Carcinogenesis of the Lung and Head and Neck Cancers, Bioimmunotherapy Lecture Series, Department of Bioimmunotherapy, The University of Texas MD Anderson Cancer Center, Houston, Texas 77030.

(e) Patents

Guggulsterone: an inhibitor of nuclear factor - κ B and I κ B α kinase activation and uses thereof. (01/26/06; #20060019907)

The present invention provides an inhibitor of NF- κ B, guggulsterone and its analogs. Guggulsterone suppresses NF- κ B activation induced by TNF, phorbol ester, okadaic acid, cigarette smoke, H₂O₂ and IL-1 β , as well as constitutive NF- κ B activation expressed in most tumor cells. One mechanism by which guggulsterone inhibits activation of NF- κ B is through suppression of I κ B α phosphorylation and I κ B α

degradation. NF- κ B-dependent gene transcription is modulated by guggulsterone and its analogs. In particular, induction by TNF, TNFR1, TRADD, TRAF2, NIK and IKK, is modulated by guggulsterone and its analogs. In addition, guggulsterone decreased the expression of genes involved in anti-apoptosis (IAP1, XIAP, Bfl-1/A1, bcl-2, cFLIP, survivin), proliferation (cyclin D1, c-myc) and metastasis (MMP-9, COX2 and VEGF).

(f) Reviewing of papers submitted for publication to professional journals

Cancer Gene Therapy, Chemical Biology and Drug Design, Carcinogenesis, Cancer Letters, Arthritis Research and Therapy, FEBS Letters, Cancer, European Journal of Cancer, Acta Biomaterialia, PLoS ONE, Environmental Toxicology and Pharmacology, International Wound Journal, Biochemical Pharmacology

(g) Reviewing of grants proposals

NASA EPSCoR
NASA MUREP
NASA EONS
Israel Science Foundation
National Science Foundation
Fanconi Anemia Foundation
Raine Medical Research Foundation, Australia

TEACHING (CLASSROOM, GRADUATE AND PROFESSIONAL):

BIO 241: Cell Biology
BIOL 401: Undergraduate Research
BIOL 441: Histology Lecture and Lab
BIOL 648: Experimental Biology Lecture and Lab
BIOL 725: Biochemical Ecology
BIOL 861: Research Problems
ES 724: Environmental Science Thesis
ES 925: Environmental Science Dissertation

**GRADUATE CONTRIBUTIONS AS SUPERVISOR/ADVISOR-THESES AND DISSERTATIONS:
NAMES OF STUDENTS, TITLES OF PROJECTS, AND DATES**

1. Jianbang Du (Supervisor: Dr. Fengxiang Qiao) Temporal Characteristics of Particulate Matter 2.5 Concentration and Their Correlations With Weather Condition And Traffic Volume, MS Research Thesis, June 28, 2018
2. Mariam Bado (Supervisor: Dr. Jason Rosenzweig) Evaluation of Bacterial Responses to Dust in A Eukaryotic Co-Culture Systems. Ph.D. Research Dissertation, Oct 3, 2017.
3. Nkem Azu (**Supervisor: Dr. Shishir Shishodia**) The Mechanistic Impact of Platinum Group Metal Exposure On Lung Epithelia Cells. Ph.D. Research Dissertation, May 2017.
4. Kimyattia L. Smith (Supervisor: Dr. Jason Rosenzweig) Evaluation of Local Environmental Isolates and their Response to Dust. MS Research Thesis, May 1, 2017.
5. Brittany Hudson (**Supervisor: Dr. Shishir Shishodia**) DNA Methyltransferase Expression in Lung Epithelial Cells Exposed to Road Dust, M.S. Research Thesis, May 2016.
6. Shari Galvin (Supervisor: Ayodotun Sodipe) Radiation Tolerance in the Tardigrade Milnesium tardigradum, 03/27/2015
7. Sandeel Ahmad (Supervisor: Dr. Jason Rosenzweig) The Role of Ribonucleases in Various Yersinia Shear Response, 03/26/2015
8. Mohammed Suraju (Supervisor: Dr. Jason Rosenzweig) Evaluation Of The Impact Of Dust Containing Platinum Group Elements On Bacterial Growth, Oxidative Stress Sensitivity And Biofilm Formation.03/27/2015

9. Kimberly Gilkes (**Supervisor: Dr. Shishir Shishodia**), Apoptotic Effects Of A Novel Diruthenium Compound 04/12/2014
10. Nkem Azu (**Supervisor: Dr. Shishir Shishodia**) Simulated Microgravity Induces Epigenetic Changes, 03/03/2014
11. Jing Fang (Supervisor: Dr. Yuanjian Deng) Syntheses And Characterization Of Advanced Nano-Composites And Platinum Complexes, 09/26/2013.
12. Melissa Greene (**Supervisor: Dr. Shishir Shishodia**) Curcumin Suppresses Simulated Microgravity-Induced Epigenetic Changes, 06/25/2013.
13. Amanda Henry (Supervisor: Dr. Jason A. Rosenzweig) Characterization of Yersinia Pseudotuberculosis Abiotic Stress Responses. 05/05/2013
14. Linda Noukeu (**Supervisor: Dr. Shishir Shishodia**) Simulated Microgravity Induces Apoptosis In Human T-Lymphocytes, 04/23/2013.
15. Abidat Lawal (Supervisor: Dr. Jason A. Rosenzweig) The Impact Of Low-Shear Modelled Microgravity On Proliferation And Virulence Potential Of Yersinia Pestis, Ph.D. Dissertation, 10/16/2012.
16. Sharika S. Lewis (Supervisor: Dr. Barbara Hayes) The Effects Of PPAR alpha ligands on inflammatory pathways in cellular models of endometrial and prostate cancer, 10/08/2012.
17. Jyothi Mallepally (Supervisor: Dr. Yuanjian Deng) Synthetic and Chemical Studies on Platinum(II) Complexes with 4-Aminomethyl Benzene Sulphonamide, 03/29/2012.
18. Tashaineya Merrell (Supervisor: Dr. Olufisayo Jejelowo) Comparison Of Aspergillus Nidulans Following Exposure To Microgravity, 12/06/2011.
19. Nellen Nwaobasi (Supervisor: Dr. Olufisayo Jejelowo) The Effect of Simultaneous Exposure of both Microgravity and Radiation to the Candida albicans Fungi: Cytoskeleton and Membrane Proteins, 12/03/2011.
20. Anu Mathew (Supervisor: Dr. Olufisayo Jejelowo) Effects of radiation on *Candida albicans*, 12/03/2011.
21. Sharlene Law (Supervisor: Dr. Olufisayo Jejelowo) Comparative Study of *Aspergillus nidulans* Growth Under Normal Gravity and Simulated Gravity Using High Aspect to Ratio Vessel and Slow Turning Lateral Vessel, 12/1/2011
22. Nene Abogunde (Supervisor: Dr. Jason Rosenzweig), Evaluation of *Escherichia coli* and *Bacillus Subtilis* after Space Flight On Board Atlantis STS-129, 11/17/2011.
23. Yasmeen Rizwi (Supervisor: Dr. Adebayo Oyekan) Interaction of PPAR α and adenosine receptors in hypoxia-induced angiogenesis, 10/24/2011.
24. Anita Lewis, (**Supervisor: Shishir Shishodia**) Modulation of Transcription Factors in Space Related Stress. 03/23/2011.
25. Tierra Spencer (Supervisor: Dr. Hector Miranda) Molecular Phylogeny Of Aspergillus Species Based On The Internal Transcribed Spacer Region, 03/25/2011.
26. Ayodeji Jejelowo (**Supervisor: Shishir Shishodia**) The Effects of High Energy Particles on Protein Expression in Mice Intestinal Tissue, 12/17/2010
27. Stephen Hayes (Supervisor: Dr. Hector Miranda), Phylogenetics of Asian Hornbill Based on Mitochondrial Cytochrome b DNA Sequences, 08/01/2010.
28. Philys Johnson (**Supervisor: Dr. Shishir Shishodia**), Countermeasures against the negative effects of microgravity, 04/06/2010.
29. Georgette Rolle (**Supervisor: Dr. Shishir Shishodia**), High Energy Radiation Activates Nuclear Factor-Kappa B In Mice, 11/24/2009.
30. Leighann Pollard (Supervisor: Dr. Hector Miranda), Molecular Phylogeny of Asian Passerine Birds (Order Passeriformes) using Mitochondrial Cytochrome Oxidase (CO1) DNA sequences, 11/13/2009.
31. Lyndon Lyons (Supervisor: Dr. Olufisayo Jejelowo), Molecular Targets of Dietary Agents in Prostate Cancer, 04/30/08.
32. Gloria Wade (Supervisor: Dr. James W DuMond), Increased Mutation Rates As a model For Sporadic Fluxes in Evolution, 02/22/2008.

