

Curriculum Vitae
Saleh A. Al-Bakheet, Ph.D.

NAME: Saleh Abdulrahman Ibrahim Al-Bakheet

CURRENT POSITION: Professor

BUSINESS ADDRESS: Department of Pharmacology and Toxicology
College of Pharmacy, King Saud University
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EDUCATION:

Doctor of Philosophy in Pharmaceutical Sciences (Pharmacology and Toxicology)

University of Rhode Island
Kingston, Rhode Island
2005

Title of Dissertation: Identification of Oct-2 Transcription Factor as a Mediator of Lead Neurotoxicity.

Master of Science in Pharmacology and Toxicology

University of Kansas
Lawrence, Kansas
1999

Master of Science in Pharmaceutical Sciences (Toxicology)

King Saud University
Riyadh, Saudi Arabia
1995

Bachelor of Science in Pharmaceutical Sciences

King Saud University
Riyadh, Saudi Arabia
1989

EMPLOYMENT:

2018-present	Professor, Department of Pharmacology and Toxicology College of Pharmacy, King Saud University
2012-2018	Associate Professor, Department of Pharmacology and Toxicology College of Pharmacy, King Saud University
2006-2012	Assistant Professor, Department of Pharmacology and Toxicology College of Pharmacy, King Saud University
1988-1996	Teaching Assistant, Department of Pharmacology and Toxicology College of Pharmacy, King Saud University

RESEARCH INTERESTS:

The major components of my research interests are:

- Adverse effects of chemicals on the regulation of gene expression.
- The effects of chemicals on developmental gene expression in the animal's brain.
- Elucidating the mechanism of the neurotoxicity of heavy metals toxic exposure.
- The involvement of the immune system in neurobehavioral diseases.

PUBLICATIONS:

1. Elevated IL-16 expression is associated with development of immune dysfunction in children with autism. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Al-Ayadhi LY, Attia SM. *Psychopharmacology (Berl)*. 2018 Nov 19. doi: 10.1007/s00213-018-5120-4. [Epub ahead of print].
2. Dysregulation of the expression of HLA-DR, costimulatory molecule, and chemokine receptors on immune cells in children with autism. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Al-Ayadhi LY, Alotaibi MR, Alhoshani AR, Al-Hosaini KA, Attia SM. *Int Immunopharmacol*. 2018 Dec;65: 360-365.
3. Increased oxidative stress in the cerebellum and peripheral immune cells leads to exaggerated autism-like repetitive behavior due to deficiency of antioxidant response in BTBR T + tf/J mice. Nadeem A, Ahmad SF, Al-Harbi NO, Attia SM, Alshammari MA, Alzahrani KS, **Bakheet SA**. *Prog Neuropsychopharmacol Biol Psychiatry*. 2018 Sep 25;89:245-253.
4. The PPAR δ agonist GW0742 restores neuroimmune function by regulating Tim-3 and Th17/Treg-related signaling in the BTBR autistic mouse model. Ahmad SF, Nadeem A, Ansari MA, **Bakheet SA**, Alshammari MA, Attia SM. *Neurochem Int*. 2018 Nov;120:251-261.
5. S3I-201, a selective Stat3 inhibitor, restores neuroimmune function through upregulation of Treg signaling in autistic BTBR T + Itpr3^{tf}/J mice. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Alshammari MA, Khan MR, Alsaad AMS, Attia SM. *Cell Signal*. 2018 Dec;52:127-136.
6. Protection by tyrosine kinase inhibitor, tyrphostin AG126, through the suppression of IL-17A, ROR γ t, and T-bet signaling, in the BTBR mouse model of autism. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Alshammari MA, Attia SM. *Brain Res Bull*. 2018 Sep;142:328-337.
7. Dysregulated enzymatic antioxidant network in peripheral neutrophils and monocytes in children with autism. Nadeem A, Ahmad SF, Attia SM, Al-Ayadhi LY, Al-Harbi NO, **Bakheet SA**. *Prog Neuropsychopharmacol Biol Psychiatry*. 2019 Jan 10;88:352-359.
8. Investigation of belinostat-induced genomic instability by molecular cytogenetic analysis and pathway-focused gene expression profiling. Attia SM, Al-Hamamah MA, Alotaibi MR, Harisa GI, Attia MM, Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**. *Toxicol Appl Pharmacol*. 2018 Jul 1;350:43-51.
9. Downregulation in Helios transcription factor signaling is associated with immune dysfunction in blood leukocytes of autistic children. Ahmad SF, Nadeem A, Ansari MA, **Bakheet SA**, Al-Ayadhi LY, Attia SM. *Prog Neuropsychopharmacol Biol Psychiatry*. 2018 Jul 13;85:98-104.
10. Resveratrol attenuates pro-inflammatory cytokines and activation of JAK1-STAT3 in BTBR T + Itpr3^{tf}/J autistic mice. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Alzahrani MZ, Alshammari MA, Alanazi WA, Alasmari AF, Attia SM. *Eur J Pharmacol*. 2018 Jun 15;829:70-78.

11. Resveratrol Improves Neuroimmune Dysregulation Through the Inhibition of Neuronal Toll-Like Receptors and COX-2 Signaling in BTBR T₊ Itpr3^{tf}/J Mice. Ahmad SF, Ansari MA, Nadeem A, Alzahrani MZ, **Bakheet SA**, Attia SM. *Neuromolecular Med.* 2018 Mar;20(1):133-146.
12. Systemic inflammation in asocial BTBR T₊ tf/J mice predisposes them to increased psoriatic inflammation. Nadeem A, Ahmad SF, El-Sherbeeney AM, Al-Harbi NO, **Bakheet SA**, Attia SM. *Prog Neuropsychopharmacol Biol Psychiatry.* 2018 Apr 20;83:8-17.
13. Upregulation of peripheral CXC and CC chemokine receptor expression on CD4⁺ T cells is associated with immune dysregulation in children with autism. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Al-Ayadhi LY, Attia SM. *Prog Neuropsychopharmacol Biol Psychiatry.* 2018 Feb 2;81:211-220.
14. Dexrazoxane Averts Idarubicin-Evoked Genomic Damage by Regulating Gene Expression Profiling Associated With the DNA Damage-Signaling Pathway in BALB/c Mice. Attia SM, Alshahrani AY, Al-Hamamah MA, Attia MM, Saquib Q, Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**. *Toxicol Sci.* 2017 Nov 1;160(1):161-172.
15. Activation of IL-17 receptor leads to increased oxidative inflammation in peripheral monocytes of autistic children. Nadeem A, Ahmad SF, Attia SM, **Bakheet SA**, Al-Harbi NO, Al-Ayadhi LY. *Brain Behav Immun.* 2018 Jan;67:335-344.
16. Adenosine A2A receptor signaling affects IL-21/IL-22 cytokines and GATA3/Tbet transcription factor expression in CD4⁺ T cells from a BTBR T₊ Itpr3^{tf}/J mouse model of autism. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Almutairi MM, Attia SM. *J Neuroimmunol.* 2017 Oct 15;311:59-67.
17. Upregulation of IL-9 and JAK-STAT signaling pathway in children with autism. Ahmad SF, Nadeem A, Ansari MA, **Bakheet SA**, Al-Ayadhi LY, Attia SM. *Prog Neuropsychopharmacol Biol Psychiatry.* 2017 Oct 3;79(Pt B):472-480.
18. Toll-like receptors, NF-κB, and IL-27 mediate adenosine A2A receptor signaling in BTBR T₊ Itpr3^{tf}/J mice. Ahmad SF, Ansari MA, Nadeem A, **Bakheet SA**, Al-Ayadhi LY, Attia SM. *Prog Neuropsychopharmacol Biol Psychiatry.* 2017 Oct 3;79(Pt B):184-191.
19. Activation of adenosine A2A receptor signaling regulates the expression of cytokines associated with immunologic dysfunction in BTBR T₊ Itpr3^{tf}/J mice. Ansari MA, Attia SM, Nadeem A, **Bakheet SA**, Raish M, Khan TH, Al-Shabanah OA, Ahmad SF. *Mol Cell Neurosci.* 2017 Jul;82:76-87.
20. Adenosine A2A receptor modulates neuroimmune function through Th17/retinoid-related orphan receptor gamma t (RORγt) signaling in a BTBR T₊ Itpr3^{tf}/J mouse model of autism. Ansari MA, Nadeem A, Attia SM, **Bakheet SA**, Raish M, Ahmad SF. *Cell Signal.* 2017 Aug;36:14-24.
21. Immune Alterations in CD8⁺ T Cells Are Associated with Neuronal C-C and C-X-C Chemokine Receptor Regulation Through Adenosine A2A Receptor Signaling in a BTBR T₊ Itpr3^{tf}/J Autistic Mouse Model. Ahmad SF, Ansari MA,

- Nadeem A, **Bakheet SA**, Mohammad R, Attia SM. *Mol Neurobiol*. 2018 Mar;55(3):2603-2616.
22. Synaptic acid ameliorate cadmium-induced nephrotoxicity: In vivo possible involvement of oxidative stress, apoptosis, and inflammation via NF- κ B downregulation. Ansari MA, Raish M, Ahmad A, Alkharfy KM, Ahmad SF, Attia SM, Alsaad AMS, **Bakheet SA**. *Environ Toxicol Pharmacol*. 2017 Apr;51:100-107.
 23. Toll-like receptor 4 signaling is associated with upregulated NADPH oxidase expression in peripheral T cells of children with autism. Nadeem A, Ahmad SF, **Bakheet SA**, Al-Harbi NO, Al-Ayadhi LY, Attia SM, Zoheir KMA. *Brain Behav Immun*. 2017 Mar;61:146-154.
 24. Imbalance between the anti- and pro-inflammatory milieu in blood leukocytes of autistic children. Ahmad SF, Nadeem A, Ansari MA, **Bakheet SA**, Attia SM, Zoheir KM, Al-Ayadhi LY, Alzahrani MZ, Alsaad AM, Alotaibi MR, Abd-Allah AR. *Mol Immunol*. 2017 Feb;82:57-65.
 25. Gene expression profiling to identify the toxicities and potentially relevant human disease outcomes associated with environmental heavy metal exposure. Korashy HM, Attafi IM, Famulski KS, **Bakheet SA**, Hafez MM, Alsaad AMS, Al-Ghadeer ARM. *Environ Pollut*. 2017 Feb;221:64-74.
 26. Resveratrol treatment attenuates chemokine receptor expression in the BTBR T+tf/J mouse model of autism. **Bakheet SA**, Alzahrani MZ, Nadeem A, Ansari MA, Zoheir KMA, Attia SM, Al-Ayadhi LY, Ahmad SF. *Mol Cell Neurosci*. 2016 Dec;77:1-10.
 27. Correction: Utility of Dexrazoxane for the Attenuation of Epirubicin-Induced Genetic Alterations in Mouse Germ Cells. Attia SM, Ahmad SF, Ansari MA, Nadeem A, Al-Shabanah OA, Al-Harbi MM, **Bakheet SA**. *PLoS One*. 2016 Oct 27;11(10):e0165854.
 28. Synaptic acid mitigates gentamicin-induced nephrotoxicity and associated oxidative/nitrosative stress, apoptosis, and inflammation in rats. Ansari MA, Raish M, Ahmad A, Ahmad SF, Mudassar S, Mohsin K, Shakeel F, Korashy HM, **Bakheet SA**. *Life Sci*. 2016 Nov 15;165:1-8.
 29. STA-21, a STAT-3 inhibitor, attenuates the development and progression of inflammation in collagen antibody-induced arthritis. Ahmad SF, Ansari MA, Nadeem A, Zoheir KMA, **Bakheet SA**, Alsaad AMS, Al-Shabanah OA, Attia SM. *Immunobiology*. 2017 Feb;222(2):206-217.
 30. Utility of Dexrazoxane for the Attenuation of Epirubicin-Induced Genetic Alterations in Mouse Germ Cells. Attia SM, Ahmad SF, Ansaria MA, Nadeem A, Al-Shabanah OA, Al-Harbi MM, **Bakheet SA**. *PLoS One*. 2016 Sep 30;11(9):e0163703.
 31. The tyrosine kinase inhibitor tyrphostin AG126 reduces activation of inflammatory cells and increases Foxp3⁺ regulatory T cells during pathogenesis of rheumatoid arthritis. Ahmad SF, Ansari MA, Nadeem A, Zoheir KM, **Bakheet**

- SA, Al-Shabanah OA, Al Rikabi AC, Attia SM. *Mol Immunol*. 2016 Oct;78:65-78.
32. Resveratrol Ameliorates Dysregulation of Th1, Th2, Th17, and T Regulatory Cell-Related Transcription Factor Signaling in a BTBR T + tf/J Mouse Model of Autism. **Bakheet SA**, Alzahrani MZ, Ansari MA, Nadeem A, Zoheir KMA, Attia SM, Al-Ayadhi LY, Ahmad SF. *Mol Neurobiol*. 2017 Sep;54(7):5201-5212.
 33. Dysregulation of Th1, Th2, Th17, and T regulatory cell-related transcription factor signaling in children with autism. Ahmad SF, Zoheir KMA, Ansari MA, Nadeem A, **Bakheet SA**, Al-Ayadhi LY, Alzahrani MZ, Al-Shabanah OA, Al-Harbi MM, Attia SM. *Mol Neurobiol*. 2017 Aug;54(6):4390-4400.
 34. Alleviation of Aflatoxin B1-Induced Genomic Damage by Proanthocyanidins via Modulation of DNA Repair. **Bakheet SA**, Alhuraishi AM, Al-Harbi NO, Al-Hosaini KA, Al-Sharary SD, Attia MM, Alhoshani AR, Al-Shabanah OA, Al-Harbi MM, Imam F, Ahmad SF, Attia SM. *J Biochem Mol Toxicol*. 2016 Nov;30(11):559-566.
 35. β -1,3-Glucan reverses aflatoxin B1-mediated suppression of immune responses in mice. **Bakheet SA**, Attia SM, Alwetaid MY, Ansari MA, Zoheir KM, Nadeem A, Al-Shabanah OA, Al-Harbi MM, Ahmad SF. *Life Sci*. 2016 May 1;152:1-13.
 36. A Mechanistic Study on the Amiodarone-Induced Pulmonary Toxicity. Al-Shammari B, Khalifa M, **Bakheet SA**, Yasser M. *Oxid Med Cell Longev*. 2016;2016:6265853.
 37. Impact of dexrazoxane on doxorubicin-induced aneuploidy in somatic and germinal cells of male mice. Attia SM, Ahmad SF, **Bakheet SA**. *Cancer Chemother Pharmacol*. 2016 Jan;77(1):27-33.
 38. Histamine 4 receptor promotes expression of costimulatory B7.1/B7.2 molecules, CD28 signaling and cytokine production in stress-induced immune responses. Ahmad SF, Zoheir KM, Ansari MA, Nadeem A, **Bakheet SA**, Al-Hoshani AR, Al-Shabanah OA, Al-Harbi MM, Attia SM. *J Neuroimmunol*. 2015 Dec 15;289:30-42.
 39. Gene expression of IQGAPs and Ras families in an experimental mouse model for hepatocellular carcinoma: a mechanistic study of cancer progression. Zoheir KM, Abd-Rabou AA, Harisa GI, Ashour AE, Ahmad SF, Attia SM, **Bakheet SA**, Abdel-Hamied HE, Abd-Allah AR, Kumar A. *Int J Clin Exp Pathol*. 2015 Aug 1;8(8):8821-31.
 40. Design and Synthesis of N-Arylphthalimides as Inhibitors of Glucocorticoid-Induced TNF Receptor-Related Protein, Proinflammatory Mediators, and Cytokines in Carrageenan-Induced Lung Inflammation. Bhat MA, Al-Omar MA, Ansari MA, Zoheir KM, Imam F, Attia SM, **Bakheet SA**, Nadeem A, Korashy HM, Voronkov A, Berishvili V, Ahmad SF. *J Med Chem*. 2015 Nov 25;58(22):8850-67.
 41. Dexrazoxane mitigates epirubicin-induced genotoxicity in mice bone marrow cells. Attia SM, Ahmad SF, Saquib Q, Harisa GI, Al-Khedhairi AA, **Bakheet SA**. *Mutagenesis*. 2016 Mar;31(2):137-45.

42. Prophylactic and Therapeutic Potential of Acetyl-L-carnitine against Acetaminophen-Induced Hepatotoxicity in Mice. Alotaibi SA, Alanazi A, **Bakheet SA**, Alharbi NO, Nagi MN. *J Biochem Mol Toxicol*. 2016 Jan;30(1):5-11.
43. Regulation of TNF- α and NF- κ B activation through the JAK/STAT signaling pathway downstream of histamine 4 receptor in a rat model of LPS-induced joint inflammation. Ahmad SF, Ansari MA, Zoheir KM, **Bakheet SA**, Korashy HM, Nadeem A, Ashour AE, Attia SM. *Immunobiology*. 2015 Jul;220(7):889-98.
44. Dominant lethal effects of nocodazole in germ cells of male mice. Attia SM, Ahmad SF, Okash RM, **Bakheet SA**. *Food Chem Toxicol*. 2015 Mar;77:101-4.
45. Stimulation of the histamine 4 receptor with 4-methylhistamine modulates the effects of chronic stress on the Th1/Th2 cytokine balance. Ahmad SF, Zoheir KM, Ansari MA, Korashy HM, **Bakheet SA**, Ashour AE, Attia SM. *Immunobiology*. 2015 Mar;220(3):341-9.
46. The role of poly(ADP-ribose) polymerase-1 inhibitor in carrageenan-induced lung inflammation in mice. Ahmad SF, Zoheir KM, Ansari MA, Korashy HM, **Bakheet SA**, Ashour AE, Al-Shabanah OA, Al-harbi MM, Attia SM. *Mol Immunol*. 2015 Feb;63(2):394-405.
47. Aneugenic effects of epirubicin in somatic and germinal cells of male mice. Attia SM, Ahmad SF, Okash RM, **Bakheet SA**. *PLoS One*. 2014 Oct 10;9(10):e109942.
48. Naringin attenuates the development of carrageenan-induced acute lung inflammation through inhibition of NF- κ b, STAT3 and pro-inflammatory mediators and enhancement of I κ B α and anti-inflammatory cytokines. Ahmad SF, Attia SM, **Bakheet SA**, Zoheir KM, Ansari MA, Korashy HM, Abdel-Hamied HE, Ashour AE, Abd-Allah AR. *Inflammation*. 2015 Apr;38(2):846-57.
49. Aroclor 1254-induced genotoxicity in male gonads through oxidatively damaged DNA and inhibition of DNA repair gene expression. Attia SM, Ahmad SF, Okash RM, **Bakheet SA**. *Mutagenesis*. 2014 Sep;29(5):379-84.
50. Mitogen-activated protein kinases pathways mediate the sunitinib-induced hypertrophy in rat cardiomyocyte H9c2 cells. Korashy HM, Al-Suwayeh HA, Maayah ZH, Ansari MA, Ahmad SF, **Bakheet SA**. *Cardiovasc Toxicol*. 2015 Jan;15(1):41-51.
51. Poly(ADP-ribose) polymerase-1 inhibitor modulates T regulatory and IL-17 cells in the prevention of adjuvant induced arthritis in mice model. Ahmad SF, Zoheir KM, **Bakheet SA**, Ashour AE, Attia SM. *Cytokine*. 2014 Aug;68(2):76-85.
52. Amelioration of autoimmune arthritis by naringin through modulation of T regulatory cells and Th1/Th2 cytokines. Ahmad SF, Zoheir KM, Abdel-Hamied HE, Ashour AE, **Bakheet SA**, Attia SM, Abd-Allah AR. *Cell Immunol*. 2014 Feb;287(2):112-20.
53. Role of a histamine 4 receptor as an anti-inflammatory target in carrageenan-induced pleurisy in mice. Ahmad SF, Zoheir KM, Abdel-Hamied HE, Alrashidi I,

- Attia SM, **Bakheet SA**, Ashour AE, Abd-Allah AR. *Immunology*. 2014 Jul;142(3):374-83.
54. Attenuation of the progression of adjuvant-induced arthritis by 3-aminobenzamide treatment. Ahmad SF, Attia SM, Zoheir KM, Ashour AE, **Bakheet SA**. *Int Immunopharmacol*. 2014 Mar;19(1):52-9.
55. Involvement of histamine 4 receptor in the pathogenesis and progression of rheumatoid arthritis. Abd-Allah AR, Ahmad SF, Alrashidi I, Abdel-Hamied HE, Zoheir KM, Ashour AE, **Bakheet SA**, Attia SM. *Int Immunol*. 2014 Jun;26(6):325-40.
56. Thymoquinone suppression of the human hepatocellular carcinoma cell growth involves inhibition of IL-8 expression, elevated levels of TRAIL receptors, oxidative stress and apoptosis. Ashour AE, Abd-Allah AR, Korashy HM, Attia SM, Alzahrani AZ, Saqib Q, **Bakheet SA**, Abdel-Hamied HE, Jamal S, Rishi AK. *Mol Cell Biochem*. 2014 Apr;389(1-2):85-98.
57. Anti-inflammatory effect of *Euphorbia hirta* in an adjuvant-induced arthritic murine model. Ahmad SF, Attia SM, **Bakheet SA**, Ashour AE, Zoheir KM, Abd-Allah AR. *Immunol Invest*. 2014;43(3):197-211.
58. Genotoxic evaluation of chloroacetonitrile in murine marrow cells and effects on DNA damage repair gene expressions. Attia SM, Ahmad SF, Zoheir KM, **Bakheet SA**, Helal GK, Abd-Allah AR, Al-Harbi NO, Al-Hosaini KA, Al-Shabanah OA. *Mutagenesis*. 2014 Jan 1;29(1):55-62.
59. Grape seed proanthocyanidin extract protects against carrageenan-induced lung inflammation in mice through reduction of pro-inflammatory markers and chemokine expressions. Ahmad SF, Zoheir KM, Abdel-Hamied HE, Attia SM, **Bakheet SA**, Ashour AE, Abd-Allah AR. *Inflammation*. 2014 Apr;37(2):500-11.
60. Germ cell mutagenicity of topoisomerase I inhibitor topotecan detected in the male mouse-dominant lethal study. Attia SM, Ahmad SF, Abd-Ellah MF, Hamada FM, **Bakheet SA**. *Food Chem Toxicol*. 2013 Dec;62:470-4.
61. Wogonin attenuates etoposide-induced oxidative DNA damage and apoptosis via suppression of oxidative DNA stress and modulation of OGG1 expression. Attia SM, Ahmad SF, Harisa GI, Mansour AM, El Sayed el SM, **Bakheet SA**. *Food Chem Toxicol*. 2013 Sep;59:724-30.
62. Effect of long-term human exposure to environmental heavy metals on the expression of detoxification and DNA repair genes. Al **Bakheet SA**, Attafi IM, Maayah ZH, Abd-Allah AR, Asiri YA, Korashy HM. *Environ Pollut*. 2013 Oct;181:226-32.
63. Beryllium chloride-induced oxidative DNA damage and alteration in the expression patterns of DNA repair-related genes. Attia SM, Harisa GI, Hassan MH, **Bakheet SA**. *Mutagenesis*. 2013 Sep;28(5):555-9.
64. Grape seed proanthocyanidin extract has potent anti-arthritis effects on collagen-induced arthritis by modifying the T cell balance. Ahmad SF, Zoheir KM, Abdel-

- Hamied HE, Ashour AE, **Bakheet SA**, Attia SM, Abd-Allah AR. *Int Immunopharmacol*. 2013 Sep;17(1):79-87.
65. The influence of lentinan on the capacity of repair of DNA damage and apoptosis induced by paclitaxel in mouse bone marrow cells. Attia SM, Harisa GI, Abd-Allah AR, Ahmad SF, **Bakheet SA**. *J Biochem Mol Toxicol*. 2013 Jul;27(7):370-7.
 66. Comet-FISH studies for evaluation of genetic damage of citalopram in somatic cells of the mouse. Attia SM, Ashour AE, **Bakheet SA**. *J Appl Toxicol*. 2013 Sep;33(9):901-5.
 67. The role of aryl hydrocarbon receptor signaling pathway in cardiotoxicity of acute lead intoxication in vivo and in vitro rat model. Ansari MA, Maayah ZH, **Bakheet SA**, El-Kadi AO, Korashy HM. *Toxicology*. 2013 Apr 5;306:40-9.
 68. Effect of dihydrokainate on the capacity of repair of DNA damage and apoptosis induced by doxorubicin. Attia SM, **Bakheet SA**. *Mutagenesis*. 2013 May;28(3):257-61.
 69. TNF- α inhibitory effect of *Euphorbia hirta* in rats. Ahmad SF, Bani S, Sultan P, Ali SA, **Bakheet SA**, Attia SM, Abd-Allah AR. *Pharm Biol*. 2013 Apr;51(4):411-7.
 70. Citalopram at the recommended human doses after long-term treatment is genotoxic for male germ cell. Attia SM, **Bakheet SA**. *Food Chem Toxicol*. 2013 Mar;53:281-5.
 71. Modulation of Th1 cytokines and inflammatory mediators by *Euphorbia hirta* in animal model of adjuvant-induced arthritis. Fayaz Ahmad S, Sultan P, Ashour AE, Khan TH, Attia SM, **Bakheet SA**, Abd-Allah AR. *Inflammopharmacology*. 2013 Oct;21(5):365-75.
 72. Immunosuppressive effects of *Euphorbia hirta* in experimental animals. Ahmad SF, Khan B, Bani S, Kaul A, Sultan P, Ali SA, Satti NK, **Bakheet SA**, Attia SM, Zoheir KM, Abd-Allah AR. *Inflammopharmacology*. 2013 Apr;21(2):161-8.
 73. Desferrioxamine attenuates doxorubicin-induced acute cardiotoxicity through TFG- β /Smad p53 pathway in rat model. Al-Shabanah OA, Aleisa AM, Hafez MM, Al-Rejaie SS, Al-Yahya AA, **Bakheet SA**, Al-Harbi MM, Sayed-Ahmed MM. *Oxid Med Cell Longev*. 2012;2012:619185.
 74. Assessment of anti-cytogenotoxic effects of quercetin in animals treated with topotecan. **Bakheet SA**. *Oxid Med Cell Longev*. 2011;2011:824597.
 75. Salubrious effects of dexrazoxane against teniposide-induced DNA damage and programmed cell death in murine marrow cells. **Bakheet SA**, Attia SM, Al-Rasheed NM, Al-Harbi MM, Ashour AE, Korashy HM, Abd-Allah AR, Saquib Q, Al-Khedhairi AA, Musarrat J. *Mutagenesis*. 2011 Jul;26(4):533-43.
 76. Increased urinary losses of carnitine and decreased intramitochondrial coenzyme A in gentamicin-induced acute renal failure in rats. Al-Shabanah OA, Aleisa AM, Al-Yahya AA, Al-Rejaie SS, **Bakheet SA**, Fatani AG, Sayed-Ahmed MM. *Nephrol Dial Transplant*. 2010 Jan;25(1):69-76.

77. Progression of diethylnitrosamine-induced hepatic carcinogenesis in carnitine-depleted rats. Al-Rejaie SS, Aleisa AM, Al-Yahya AA, **Bakheet SA**, Alsheikh A, Fatani AG, Al-Shabanah OA, Sayed-Ahmed MM. *World J Gastroenterol.* 2009 Mar 21;15(11):1373-80.
78. Molecular cytogenetic evaluation of the mechanism of micronuclei formation induced by camptothecin, topotecan, and irinotecan. Attia SM, Aleisa AM, **Bakheet SA**, Al-Yahya AA, Al-Rejaie SS, Ashour AE, Al-Shabanah OA. *Environ Mol Mutagen.* 2009 Mar;50(2):145-51.
79. Reversal of cisplatin-induced carnitine deficiency and energy starvation by propionyl-L-carnitine in rat kidney tissues. Aleisa AM, Al-Majed AA, Al-Yahya AA, Al-Rejaie SS, **Bakheet SA**, Al-Shabanah OA, Sayed-Ahmed MM. *Clin Exp Pharmacol Physiol.* 2007 Dec;34(12):1252-9.
80. Effect of metformin on clastogenic and biochemical changes induced by adriamycin in Swiss albino mice. Aleisa AM, Al-Rejaie SS, **Bakheet SA**, Al-Bekari AM, Al-Shabanah OA, Al-Majed A, Al-Yahya AA, Qureshi S. *Mutat Res.* 2007 Dec 1;634(1-2):93-100.
81. Lead exposure: expression and activity levels of Oct-2 in the developing rat brain. **Bakheet SA**, Basha MR, Cai H, Zawia NH. *Toxicol Sci.* 2007 Feb;95(2):436-42.
82. The fetal basis of amyloidogenesis: exposure to lead and latent overexpression of amyloid precursor protein and beta-amyloid in the aging brain. Basha MR, Wei W, **Bakheet SA**, Benitez N, Siddiqi HK, Ge YW, Lahiri DK, Zawia NH. *J Neurosci.* 2005 Jan 26;25(4):823-9.
83. Increased toxicity of methamphetamine in morphine-dependent mice. Ginawi OT, al-Shabanah OA, **Bakheet SA**. *Gen Pharmacol.* 1997 May;28(5):727-31.

BOOK CHAPTER:

- **Bakheet, S. A.** and Zawia, N. H. (2004). The role of POU domain transcription factors in lead neurotoxicity. In (Ed: N.H. Zawia) *Molecular Neurotoxicology: Environmental Agents and Transcription-Transduction coupling*, CRC press, USA: 183-198.

AWARD:

- **Dr. Walid Alkayyali Price.** 2nd place award in Pharmaceutical Basic Science. **February 20, 2018 at AlFaisaliah Hotel, Riyadh, Saudi Arabia.**
- **Pre-doctoral Poster Presentation Award** (2nd place) in the Neurotoxicology Specialty Section in **the 43rd Annual Meeting of the Society of Toxicology (SOT), Baltimore, MD, Mar. 2004.**

Membership in Scientific Societies:

- Saudi Pharmaceutical Society (**SPA**).
- Society of Toxicology (**SOT**).
- American Association of immunologists (**AAI**).

Symposia/conferences attended:

- Northeast Chapter of the Society of Toxicology Meeting, Groton, CT, Oct. 2000.
- New England Pharmacologists 30th Annual Meeting, Newport, RI, Jan. 2001.
- 40th Annual Meeting of Society of Toxicology (**SOT**), San Francisco, CA, March. 2001.
- 41st Annual Meeting of Society of Toxicology (**SOT**), Nashville, TN, March. 2002.
- Northeast Chapter of the Society of Toxicology Meeting. Millennium, MA, Nov. 2003.
- 43rd Annual Meeting of Society of Toxicology (**SOT**). Baltimore, MD, March. 2004.
- Northeast Chapter of the Society of Toxicology Meeting. University of Southern Maine, Maine, Oct. 2004.
- The 9th International Pharmaceutical Sciences Conference & Exposition. Riyadh, Saudi Arabia, Dec. 2005.
- The 7th International Saudi Pharmaceutical Conference. Riyadh, Saudi Arabia, March, 2007.
- Cosmetic product formulation (The center for professional advancement). Amsterdam - the Netherlands, Nov. 2007.
- The 1st International Conference on Drug Design & Discovery (**ICDD**). Dubai, UAE, Feb. 2008.
- The 1st international conference in biotechnology. Riyadh, Saudi Arabia, Feb. 2009.
- 48th Annual Meeting and ToxExpoTM of Society of Toxicology (**SOT**). Baltimore, MD, March. 2009.
- The 3rd International Conference on Drug Discovery & Therapeutics (**ICDDT**). Dubai, UAE, Feb. 2011.
- The 41st European Environmental Mutagen Society (**EEMS**) Annual Conference. Barcelona, Spain, July 2011.
- 51th Annual Meeting and ToxExpoTM of Society of Toxicology (**SOT**). San Francisco, CA, March. 2012.
- The 1st International Conference on Frontiers in Pharmaceutical Sciences: Global Perspectives. The University of Rhode Island, Kingston, RI, USA. Sep. 2012.
- 52th Annual Meeting and ToxExpoTM of Society of Toxicology (**SOT**). San Antonio, TX, March. 2013.
- IMMUNOLOGY 2013TM The American Association of Immunologists (AAI) meeting. Honolulu, HI, May, 2013.
- Milestones Annual Autism Spectrum Disorder Conference. Cleveland, OH, June 2013.
- 11th International Conference on Environmental Mutagens. Foz Do Iguacu, Brazil, Nov. 2013.
- 53rd Annual Meeting and ToxExpoTM of Society of Toxicology (**SOT**). Phoenix, AZ, March 2014.
- The Nucleic Acid Summit, San Diego. CA. June 2014.

- 45th Annual Meeting of the Environmental Mutagenesis and Genomics Society, Orlando, Fl. Sept. 2014.
- 54th Annual Meeting and ToxExpo™ of Society of Toxicology (SOT). San Diego, CA. March 2015.
- Keystone Symposia on Molecular and Cellular Biology: MicroRNAs and Noncoding RNAs in Cancer. Keystone, CO. June 2015.
- 46th Annual Meeting of the Environmental Mutagenesis and Genomics Society. New Orleans, LA, Sep 2015.

ABSTRACTS:

- Bakheet, S. and Zawia N.H. (2001). Microarray analysis of transcription factors in the hippocampus of lead-exposed rats. *Proceedings of New England Pharmacologists 30th Annual Meeting*, Newport, RI.
- Bakheet, S., Bookland, M., and Zawia, N.H. (2001). Analysis of the effects of lead exposure on developmental gene expression in the rat hippocampus using Microarray techniques. *The Toxicologist* 60:863.
- Bakheet, S. and Zawia, N.H. (2001). Identification of OCT as a new target for lead neurotoxicity in the developing hippocampus using macroarray analysis. *Proceedings of Annual meeting of North East Chapter of the Society of Toxicology*. Biogen, MA.
- Bakheet, S. and Zawia, N.H. (2002). Temporal changes in the expression of transcription factors in the developing lead-exposed hippocampus as determined by macroarray analysis. *The Toxicologist* 66:1647.
- Bakheet, S. A. and Zawia, N.H. (2004). The influence of lead on the expression of Oct-2 and the regulation of its target genes. *The Toxicologist* 78: 896.
- Alharbi, K. Helal, G. and Albakheet, SA. (2009). Role of metallothionein induction in hepatoprotection against carmustine toxicity in normal and glioma-bearing rats. *The Toxicologist* 108: 1148.
- Al-shammery, B. Khalifa, M. and Albakheet, SA. (2009). A mechanistic study on the amidarone-induced pulmonary toxicity in rats. *The Toxicologist* 108: 2116.
- Bakheet, SA. Attia, SM and AL-Rasheed, NM. (2011). Assessment of anti-genotoxic effect of quercetin in animals treated with topotecan. The 3rd international conference on drug discovery & therapeutics. Dubai, UAE.
- Attia, SM and Bakheet, SA. (2011). Influence of resveratrol on oxidative genomic DNA damage and apoptosis induced by cisplatin. The 41st European environmental mutagen society. Barcelona, Spain.
- Al-Suwwayeh, HA., Al-Bakheet, SA., and Korashy, HM. (2012). Trosine kinase inhibitor, induced cardiac hypertrophic genes through mitogen-activated protein kinases-dependent pathway in H9C2 cells. *The Toxicologist* 126: 425.
- Sabry M. Attia and Saleh A. Bakheet (2012). MUTAGENICITY OF CITALOPRAM IN MOUSE GERMINAL CELL AND ITS PROSPECTIVE TRANSMISSION THROUGH THE MALE GERMLINE. 1st International Conference on Frontiers in Pharmaceutical Sciences: Global Perspectives.
- Ibraheem M. Attafi, Saleh A. Al-Bakheet and Hesham M. Korashy (2013) ffect of long-term exposure of heavy metals on the expression profile of cytoprotective

- genes among individuals living in mining areas. 52nd Annual Meeting and ToxExpo™ of Society of Toxicology (SOT)
- Saleh A. Bakheet, Sheikh Fayaz Ahmad (2013). Flowcytometric evaluation of T lymphocyte suppression by *Euphorbia hirta*. IMMUNOLOGY 2013™ The American Association of Immunologists (AAI) meeting.
 - Sabry M. Attia, Sheikh Fayaz Ahmad, Gamaleldin I. Harisa, Ahmed M. Mansour, El Sayed M. El Sayed, Saleh A. Bakheet (2013). WOGONIN ATTENUATES ETOPOSIDE-INDUCED OXIDATIVE DNA DAMAGE AND APOPTOSIS VIA SUPPRESSION OF OXIDATIVE DNA STRESS AND MODULATION OF OGG1 EXPRESSION. 11th International Conference on Environmental Mutagens.
 - Sabry M. Attia, Fayaz S. Ahmad, and Saleh A. Bakheet (2014). Aneuploidogenic effects of epirubicin in somatic and germinal cells of male mice. 45th Annual Meeting of the Environmental Mutagenesis and Genomics Society.
 - Ibraheem M. Attafi, Saleh A. Al-Bakheet, Konrad S. Famulski and Hesham M. Korashy (2014). GENE EXPRESSION PROFILING IN SAUDI INDIVIDUALS EXPOSED TO ENVIRONMENTAL HEAVY METALS. 53rd Annual Meeting and ToxExpo™ of Society of Toxicology (SOT).
 - Saleh A. Al-Bakheet and Sabry M. Attia (2015). Effects of grape seed extract against aflatoxin B1-induced DNA damage in rats. 54th Annual Meeting and ToxExpo™ of Society of Toxicology (SOT).

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Examining committees:

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2. Member of examining committee for M.Sc. Thesis in Pharmacology and Toxicology entitled: Evaluation of DNA Damage and Repair in Mice after Exposure to Parp-1 Inhibitors and Cisplatin by Khaled Alanazi (19/7/1434).

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