**Nikhat Jamal Siddiqi**

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**Senior Academician Profile**

**Teaching & Academics | Management Consultancy | Operational Excellence**

**Professional Experience**

**King Saud University, Riyadh, Saudi Arabia,** Professor, Biochemistry Department, College of Science, PO Box 22452, Riyadh-11495 Dec 2012- present

**Training**

* Writing scientific reviews “Introduction to Systematic Review and Meta Analysis” from Courseera offered online by John Hopkins University, 2021.
* Certified Publons academy peer reviewer, 2020.
* Getting started with SPSS from Statistics Solutions, 2020.
* Advanced Statistical Tests:Concepts and applications in SPSS, 2020

**Professional Affiliations**

* Member, British Society for Matrix Biology
* Life member, Indian society for Parasitology.
* Member, Indian Society of Biological Chemists

**Research Experience**

* Plan and carry out scientific experiments, write scientific proposals for research funding.
* Basic techniques of biochemistry viz., enzymology, electrophoresis, protein purification, etc
* Maintenance of malarial parasite (Plasmodium yoelii nigeriensis) in vivo in rodents.
* Knowledge of biochemistry of malaria parasite, parasite enzymes, and metabolic pathways as possible drug targets, the role of oxidative stress in causing pathology, biochemistry of collagen and hydroxyproline.
* Knowledge of molecular biology techniques like isolation of RNA, preparation of cDNA, PCR, RTPCR, etc.
* Using nanoparticles in vivo and in vitro study.
* Working knowledge of statistical programs like “Graph pad prism”.

**Publications**

**Toxicology**

1. Gupta VK, Park U, Siddiqi NJ, Huh YS, Sharma B. Amelioration of Hepatotoxic and Neurotoxic Effect of Cartap by *Aloe vera* in Wistar Rats. Toxics. 2023 May 22;11(5):472
2. Alburaidi BS, AlSenaidy AM, Al Hasan M, **Siddiqi NJ**, Alrokayan SH, Odeibat HA, Abdulnasir AJ, Khan HA. Comparative evaluation of cadmium-induced oxidative stress in camel and bovine erythrocytes. J of KSU-Science, 2022, 34, 101772.
3. Abhishek Kumar, **Siddiqi NJ**,, Sara T. Alrashood, Haseeb A. Khan, Anchal Dubey, Bechan Sharma. Protective effect of eugenol on hepatic inflammation and oxidative stress induced by cadmium in male rats. Biomedicine and Pharmacotherapy, 2021, 139,11586,
4. Gupta VK, Kumar A, Pereira ML, **Siddiqi NJ**,, Sharma B. Anti-Inflammatory and Antioxidative Potential of Aloe vera on the Cartap and Malathion Mediated Toxicity in Wistar Rats. Int J Environ Res Public Health. 2020;17(14): E5177. Published 2020 Jul 17. doi:10.3390/ijerph17145177.
5. Gupta, V.K., **Siddiqi NJ**,. & Sharma, B. Ameliorative Impact of *Aloe vera* on Cartap Mediated Toxicity in the Brain of Wistar Rats. *Ind J Clin Biochem* (2021). https://doi.org/10.1007/s12291-020-00934-1.
6. [Al-Harbi NS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Al-Harbi%20NS%5BAuthor%5D&cauthor=true&cauthor_uid=31774720), [Alrashood ST](https://www.ncbi.nlm.nih.gov/pubmed/?term=Alrashood%20ST%5BAuthor%5D&cauthor=true&cauthor_uid=31774720), [Siddiqi NJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Siddiqi%20NJ%5BAuthor%5D&cauthor=true&cauthor_uid=31774720), [Arafah MM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Arafah%20MM%5BAuthor%5D&cauthor=true&cauthor_uid=31774720), Ekhzaimy A, [Khan HA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Khan%20HA%5BAuthor%5D&cauthor=true&cauthor_uid=31774720). Effect of naked and PEG-coated gold nanoparticles on histopathology and cytokines expression in rat liver and kidneys. [Nanomedicine (Lond).](https://www.ncbi.nlm.nih.gov/pubmed/31774720) 2020 Feb;15(3):289-302. doi: 10.2217/nnm-2019-0220. Epub 2019 Nov 27.
7. Alwelaie MA, Al-Mutary MG, **Siddiqi NJ,** Arafah MM, Alhomida AS, Khan HA. Time-Course Evaluation of Iminodipropionitrile-Induced Liver and Kidney Toxicities in Rats: A Biochemical, Molecular and Histopathological Study. Dose-Response. 2019:1-10.
8. Patel M, **Siddiqi NJ**, Sharma P, Alhomida AS, Khan HA. Reproductive Toxicity of Pomegranate Peel Extract Synthesized Gold Nanoparticles: A Multigeneration Study in C. elegans.  Journal of Nanomaterials, vol. 2019, Article ID 8767943, 7 pages, 2019. <https://doi.org/10.1155/2019/8767943>.
9. Gupta VK, **Siddiqi NJ,** Ojha AK, Sharma B. [Hepatoprotective effect of Aloe vera against cartap- and malathion-induced toxicity in Wistar rats.](https://www.ncbi.nlm.nih.gov/pubmed/30891764) J Cell Physiol. 2019 Mar 19. doi: 10.1002/jcp.28466. [Epub ahead of print].
10. Abdel-Daim MM, Zakhary NI, Aleya L, Bungǎu SG, Bohara RA, Siddiqi NJ. [Aging, Metabolic, and Degenerative Disorders: Biomedical Value of Antioxidants.](https://www.ncbi.nlm.nih.gov/pubmed/29849869) Oxid Med Cell Longev. 2018 Apr 10;2018:2098123. doi: 10.1155/2018/2098123. eCollection 2018.
11. Jaiswal SK, **Siddiqi NJ,** Sharma B. [Studies on the ameliorative effect of curcumin on carbofuran induced perturbations in the activity of lactate dehydrogenase in wistar rats.](https://www.ncbi.nlm.nih.gov/pubmed/30591774) Saudi J Biol Sci. 2018 Dec;25(8):1585-1592. doi: 10.1016/j.sjbs.2016.03.002. Epub 2016 Mar 11.
12. Sooad Saud Al-Otaibi, Maha Mohamad Arafah, Bechan Sharma, Abdullah Salih Alhomida, and Nikhat Jamal Siddiqi, “Synergistic Effect of Quercetin and α-Lipoic Acid on Aluminium Chloride Induced Neurotoxicity in Rats,” Journal of Toxicology, vol. 2018, Article ID 2817036, 8 pages, 2018. <https://doi.org/10.1155/2018/2817036>
13. Sunil Kumar Jaiswal, Vivek Kumar Gupta, Md. Dilshad Ansari, **Nikhat J. Siddiqi,** Bechan Sharma. Vitamin C acts as a hepatoprotectant in carbofuran treated rat liver slices in vitro. Toxicology Reports 4 (2017) 265–273.
14. Al-Qahtani FA, Arafah M, Sharma B, **Siddiqi NJ.** [Effects of alpha lipoic acid on acrylamide-induced hepatotoxicity in rats.](https://www.ncbi.nlm.nih.gov/pubmed/28968200) Cell Mol Biol (Noisy-le-grand). 2017 Jul 31;63(6):1-6. doi: 10.14715/cmb/2017.63.6.1.
15. Jaiswal SK, Gupta VK, **Siddiqi NJ,** Sharma B. [Curcumin mediated attenuation of carbofuran induced toxicity in the heart of Wistar rats.](https://www.ncbi.nlm.nih.gov/pubmed/28968202) Cell Mol Biol (Noisy-le-grand). 2017 Jul 31;63(6):12-17. doi: 10.14715/cmb/2017.63.6.3.
16. Gupta VK, Pathak A, **Siddiqi NJ,** Sharma B. Carbofuran Modulating Functions of Acetylcholinesterase from Rat Brain In Vitro. Advances in Biology. Volume 2016 (2016), Article ID 3760967, 7 pages. <http://dx.doi.org/10.1155/2016/3760967>.
17. Zargar S, **Siddiqi NJ,** Ansar S, Alsulaimani MS, El Ansary AK. [Therapeutic role of quercetin on oxidative damage induced by acrylamide in rat brain.](http://www.ncbi.nlm.nih.gov/pubmed/26730789) Pharm Biol. 2016 Jan 5:1-5
18. Ansar S, **Siddiqi NJ,** Zargar S, Ganaie MA, Abudawood M. [Hepatoprotective effect of Quercetin supplementation against Acrylamide-induced DNA damage in wistar rats.](https://www.ncbi.nlm.nih.gov/pubmed/27576905) BMC Complement Altern Med. 2016 Aug 30;16(1):327. doi: 10.1186/s12906-016-1322-7.
19. [Zargar S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zargar%20S%5BAuthor%5D&cauthor=true&cauthor_uid=25856559), [**Siddiqi NJ**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Siddiqi%20NJ%5BAuthor%5D&cauthor=true&cauthor_uid=25856559)**,**[Al Daihan SK](http://www.ncbi.nlm.nih.gov/pubmed/?term=Al%20Daihan%20SK%5BAuthor%5D&cauthor=true&cauthor_uid=25856559), [Wani TA](http://www.ncbi.nlm.nih.gov/pubmed/?term=Wani%20TA%5BAuthor%5D&cauthor=true&cauthor_uid=25856559). Protective effects of quercetin on cadmium fluoride induced oxidative stress at different intervals of time in mouse liver. [Acta Biochim Pol.](http://www.ncbi.nlm.nih.gov/pubmed/25856559) 2015, 62(2); 207-213.
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22. El-Ansary AK, KotbM, Maha Zaki Rizk MZ, **Siddiqi NJ**. Editorial in Prooxidant Oxidant Mechanisms in Toxicology. BioMed Research International, 2014, Article ID 308625, 2 pages.
23. El-Ansary A, Shaker G, **Siddiqi NJ,** Al-Ayadhi LY. Possible ameliorative effects of antioxidants on propionic acid / clindamycin – induced neurotoxicity in Syrian hamsters. Gut Pathogens, 2013, 5:32.
24. Jaiswal SK, **Siddiqi NJ,** Sharma B. Carbofuran Induced Oxidative Stress in Rat Heart:Ameliorative Effect of Vitamin C. ISRN Oxidative Medicine, vol. 2013, Article ID 824102, 10 pages, 2013. doi:10.1155/2013/824102
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26. Sharma RK, Upadhyay G, **Siddiqi NJ,** Sharma B. Pesticides-induced biochemical alterations in occupational North Indian suburban population. Human and Experimental Toxicology, 2013, 1–15.
27. Sharma RK, Jaiswal SK, **Siddiqi NJ,** Sharma B. [Effect of carbofuran on some biochemical indices of human erythrocytes in vitro.](http://www.ncbi.nlm.nih.gov/pubmed/23273198) Cell Mol Biol (Noisy-le-grand). 2012, 2;58(1):103-9.
28. Sharma RK, **Siddiqi NJ,** Sharma B. Protective effect of silymarin on human erythrocytes against tertbutyl hydroperoxide induced oxidative stress in vitro. American Journal of Biochemistry and Molecular Biology 2012.
29. Al-Madani WA, **Siddiqi NJ,** Alhomida AS.  Renal Toxicity of Mercuric Chloride at Different Time Intervals in Rats.  Biochemistry Insights 2009:2 37-45.
30. [Al-Madani WA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Al-Madani%20WA%22%5BAuthor%5D), [**Siddiqi NJ**](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Siddiqi%20NJ%22%5BAuthor%5D)**,** [Alhomida AS](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Alhomida%20AS%22%5BAuthor%5D), [Khan HA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Khan%20HA%22%5BAuthor%5D), [Arif IA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Arif%20IA%22%5BAuthor%5D), [Kishore U](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kishore%20U%22%5BAuthor%5D). Increased urinary excretion of carnitine and acylcarnitine by mercuric chloride is reversed by 2,3-dimercapto-1-propanesulfonic acid in rats. [International Journal of Toxicol](javascript:AL_get(this,%20'jour',%20'Int%20J%20Toxicol.');) 2010; 29 (3):313-7.

Natural Products

1. Jaiswal J, **Siddiqi NJ**, Fatima S, Abudawood M, AlDaihan SK, Alharbi MG, de Lourdes Pereira M, Sharma P, Sharma B. Analysis of Biochemical and Antimicrobial Properties of Bioactive Molecules of *Argemone mexicana*. Molecules. 2023 May 30;28(11):4428.
2. Abdul Rahman MS, Kanakarajan S, Selvaraj R, Kamalanathan A, Fatima S, Abudawood M, **Siddiqi NJ**, Alanazi H, Sharma B, de Lourdes Pereira M. Elucidation of the Anticancer Mechanism of Durian Fruit (*Durio zibethinus*) Pulp Extract in Human Leukemia (HL-60) Cancer Cells. Nutrients. 2023 May 22;15(10):2417.
3. Fatima S, Altwaijry H, Abulmeaty MMA, Abudawood M, **Siddiqi NJ**, Alrashoudi RH, Alsobaie S. Combined Supplementation of *Clostridium butyricum* and *Bifidobacterium infantis* Diminishes Chronic Unpredictable Mild Stress-Induced Intestinal Alterations via Activation of Nrf-2 Signaling Pathway in Rats. Int J Mol Sci. 2023 May 5;24(9):8264.
4. Patel A, Soni A, **Siddiqi NJ,** Sharma P. [An insight into the anticancer mechanism of *Tribulus terrestris* extracts on human breast cancer cells](https://www.ncbi.nlm.nih.gov/pubmed/30729082). 3 Biotech. 2019 Feb;9(2):58. doi: 10.1007/s13205-019-1585-z. Epub 2019 Jan 29.

**Hydroxyproline / Collagen**

1. **Siddiqi NJ**, Zargar S. Quercetin protects mice kidney collagen against the damage induced by cadmium fluoride. Proc. Natl. Acad. Sci., India, Sect. B Biol. 2017, 87 (2), 431-436. Sci. DOI 10.1007/s40011-015-0611-0.July 30,2015,1-6.
2. **Siddiqi NJ**, Zargar S. [Effect of quercetin on cadmium fluoride induced alterations in hydroxyproline/collagen content in mice liver](http://www.ncbi.nlm.nih.gov/pubmed/24588693). Connect Tissue Res. 2014; 55(3):234- 238. (1.854)
3. **Siddiqi NJ.** Effect of sodium fluoride and magnesium chloride on different hydroxyproline fractions in rat liver. Indian Journal of Biochemistry and Biophysics 2012, 49: 130-133. (1.026)
4. **Siddiqi NJ.** Studies on the comparative effect of sodium fluoride on collagen content in various rat organs. African Journal of Biotechnology 2011, 10(79): 18252- 18255. (0.57)
5. **Siddiqi NJ**, Al-Omireeni EA, Alhomida AS. Effect of different doses of sodium fluoride on various hydroxyproline fractions in rat serum. Cellular and Molecular Biology 2011, 57(1): 93-99.
6. **Siddiqi NJ.** Protective effect of magnesium chloride on sodium fluoride induced alterations in various hydroxyproline fractions in rat lungs. Cellular and Molecular Biology 2011, 57(1): 87-92.
7. Al-Omireeni EA, **Siddiqi NJ**, Alhomida AS.  Effect of different doses of sodium fluoride on various hydroxyproline fractions in rat kidneys.  Kidney Research Journal 2011; 33-40. ISSN 1819 - 3374 (USA).
8. Al-Omireeni EA, **Siddiqi NJ**, Alhomida AS. Biochemical and histological studies on the effect of sodium fluoride on rat kidney collagen. Journal of Saudi Chemical Society 2010, 14: 413-416. 
9. Al-Omireeni EA, **Siddiqi NJ,** Alhomida AS. Effect of magnesium chloride and sodium fluoride on various hydroxyproline fractions in rat kidneys. Canadian Journal of Pure and Applied Sciences 2011;4(2): 1163-1168.
10. Abdelhalim MA, **Siddiqi NJ,** Alhomida AS, Al-Ayed MS. The changes in various hydroxyproline fractions in aortic tissue of rabbits are closely related to the progression of atherosclerosis. Lipids Health Dis. 2010 Mar 9;9:26.
11. AL-Omireeni EA, Al-Afaleg NO, **Siddiqi NJ**.  Use of Collagen breakdown products in the diagnosis of some connective tissue diseases.  J of King Saud University 2009; 21, 67-73.
12. **Siddiqi NJ**, Alhomida AS.  A study on hydroxyproline concentration in human erythrocytes. Saudi Journal of Biological Sciences 2008; 12 (2): 149-154.
13. Abdelhalim MAK, **Siddiqi NJ,** Alhomida AS, Al-Ayed MS.  Effects of feeding periods of high cholesterol and saturated fat diet on blood biochemistry and hydroxyproline fractions in rabbits.  Bioinformatics and Biology Insights 2008: 2, 239 - 244.
14. **Siddiqi NJ**. Free, peptide bond, protein bond, total hydroxyproline and total collagen in rat tissues.  Egyptian Pharmaceutical Journal 2007; 6 (1), 77-85.
15. **Siddiqi NJ,** Alhomida AS.  Changes in various hydroxyproline fractions in rat kidneys after mercuric chloride treatment.  International journal of Biological Chemistry 2007; 1 (2), 84 – 90.
16. **Siddiqi NJ**, Alhomida AS. Effect of mercuric chloride on urinary excretion of free hydroxyproline. Medical Science Monitor 2006; 12 (3), 95-101.
17. **Siddiqi NJ,** Alhomida AS. Effect of mercuric chloride on various hydroxyproline fractions in rat serum. Molecular and Cellular Biochemistry 2005; 271, 159-165.
18. **Siddiqi NJ,** Alhomida AS. Hydroxyproline concentrations in ocular tissues of Arabian camel ( *Camelus dromedaries Linn.* ). Indian Journal of Biochemistry & Biophysics 2003; 40, 451-454.
19. **Siddiqi NJ**, Alhomida AS. Investigation into the Distribution of Total, Free, Peptide-bound, Protein-bound, Soluble- and Insoluble-Collagen Hydroxyproline in Various Bovine Tissues. Journal of Biochemistry and Molecular Biology 2003; 36, 154 - 158.
20. **Siddiqi NJ**, Alhomida AS, Pandey VC. Hydroxyproline distribution in the Plasma of Different Mammals. Journal of Biochemistry, Molecular Biology and Biophysics 2002; 6 (2), 159-162.
21. **Siddiqi NJ.** A Comparitive Study on the distribution of Hydroxyproline in the tissues of two desert animals viz., Arabian Camel (*Camelus dromedarius*) and Arabian Sand Gazelles (*Gazella* *subgutturosa marica*). Journal of Saudi Chemical Society 2002; 6, 21-26.
22. **Siddiqi NJ**, Alhomida AS. Distribution of total, free, peptide-bound and protein bound hydroxyproline in the erythrocytes from different species. Comparitive Clinical Pathology. 2002; 11: 123-128.
23. **Siddiqi NJ,** Alhomida AS. A study of the distribution of total, free, peptide-bound and protein-bound hydroxyproline in the plasma of Arabian camel (*Camelus dromadarius*). Comparitive Haematology International. 2000; 10: 144-147.
24. **Siddiqi NJ,** Sharma B, Alhomida AS. A study on distribution of different hydroxyproline fractions in bovine ocular tissues. Molecular and Cellular Biochemistry 2001; 217 (1-2): 67-71.
25. **Siddiqi NJ,** Al-Jafari AA, Alhomida AS. Investigation of total, free, peptide-bound, protein-bound, soluble and insoluble collagen hydroxyproline content in tissues from the Arabian camel (*Camelus dromadarius*). Cell Biochemistry Function 2000; 18 (4): 243-248.
26. **Siddiqi NJ.** Determination of total, free, peptide-bound, protein-bound, soluble and insoluble collagen hydroxyproline content in tissues from Arabian sand gazella (Gazella subgutturosa marica). Saudi Journal of Biological Sciences 2000; 7 (1): 104-112.

**Nanoparticles**

1. Khan HA, Lee YK, Shaik MR, Siddiqi NJ, Siddiqui MR, Alrashood ST, Alharbi AS, Ekhzaimy AA. Hybrid Nanoparticles of Manganese Oxide and Highly Reduced Graphene Oxide for Photodynamic Therapy. Front Biosci (Landmark Ed). 2023 Jan 18;28(1):19.
2. **Siddiqi NJ.** Effect of gold nanoparticles on superoxide dismutase and indoleamine 2,3-dioxygenase in various rat tissues. Indian J of Biochemistry and Biophysics, 2014,51:156-159.
3. **N.J. Siddiqi,** M.A.K. Abdelhalim, Y.A. AlYafee, A.S Alhomida. Studies on the effect of gold nanoparticles on oxidative stress and antioxidants defense indices in various rat tissues. African Journal of Pharmacy and Pharmacology, 2012; 6(47): 3246-3251.
4. **Siddiqi NJ,** M.A.K. Abdelhalim, A. K. El-Ansary, A.S. Alhomida, W.Y. Ong. Identification of potential biomarkers of gold nanoparticle toxicity in rat brains. Journal of Neuroinflammation 2012, 9:123.
5. Abdelhalim MAK, Siddiqi NJ, Alhomida AS, AlAyed MS. Size effect of gold nanoparticles on various trace elements levels in different tissues of rats. African J of Microbiology Research 2012, 6(10): 2246-2251.
6. Chew WS, Poh KW, **Siddiqi NJ,** Alhomida AS, Liya E. Yu LE, Wei-Yi Ong WY. Short- and long-term changes in blood miRNA levels after nanogold injection in rats—potential biomarkers of nanoparticle exposure. Biomarkers, 2012; 17(8): 750–757.

**Enzymology**

1. Doharey PK, Verma P, Dubey A, Singh SK, Kumar M, Tripathi T, Alonazi M, Siddiqi NJ, Sharma B. Biophysical and *in-silico* studies on the structure-function relationship of *Brugia malayi* protein disulfide isomerase. J Biomol Struct Dyn. 2023 Apr 20:1-11.
2. Chauhan AS, Kumar A, **Siddiqi NJ**, Sharma B. Extracellular 𝛼-Galactosidase from Trichoderma sp. (WF-3): Optimization of Enzyme Production and Biochemical Characterization. Biotechnology Research International, vol. 2015, Article ID 860343, 6 pages, 2015. doi:10.1155/2015/860343.
3. Gupta VK, Pal R, **Siddiqi NJ**, Sharma B. Acetylcholinesterase from Human Erythrocytes as a Surrogate Biomarker of Lead Induced Neurotoxicity. Enzyme Research Volume 2015, Article ID 370705, 7 pages, http://dx.doi.org/10.1155/2015/370705
4. [Chauhan A](http://www.ncbi.nlm.nih.gov/pubmed?term=Chauhan%20A%5BAuthor%5D&cauthor=true&cauthor_uid=25126562), [**Siddiqi NJ**](http://www.ncbi.nlm.nih.gov/pubmed?term=Siddiqi%20NJ%5BAuthor%5D&cauthor=true&cauthor_uid=25126562), [Sharma B](http://www.ncbi.nlm.nih.gov/pubmed?term=Sharma%20B%5BAuthor%5D&cauthor=true&cauthor_uid=25126562). A Novel Promising Strain of Trichoderma evansii (WF-3) for Extracellular α-Galactosidase Production by Utilizing Different Carbon Sources under Optimized Culture Conditions. [Biomed Res Int.](http://www.ncbi.nlm.nih.gov/pubmed/25126562) 2014;2014:461624. doi: 10.1155/2014/461624. Epub 2014 Jul 13.
5. Zargar S, **Siddiqi NJ,** Khan TH, Elredah IE. Effect of cadmium fluoride and quercetin on in vivo activity of indoleamine 2,3-dioxygenase in mice liver and kidney. Fluoride 2014,47(1): 31-42.
6. Yang H, Siddiqi NJ, Alhomida AS, OngWY. Expression and Localization of sPLA2-III in the Rat CNS. Neurochemical Research 2013; DOI 10.1007/s11064-013-0974-7.
7. **Siddiqi NJ**. Effect of fluoride and magnesium chloride on in vivo activity of indoleamine 2, 3- dioxygenase in rat lungs. Fluoride 2010; 43(1), 52 –56.
8. **Siddiqi NJ,** Alhomida AS.  Determination of indoleamine 2, 3-dioxygenase activity in tissues of Arabian Camel (*Camelus dromedarius*).  Arabian Journal of Chemistry 2008: 1(2), 2-13.
9. Srivastava S, Alhomida AS, **Siddiqi NJ,** Puri SK, Pandey VC. Methemoglobin reductase activity and in vitro sensitivity towards oxidant induced methemoglobinemia in Swiss mice and Beagle dogs erythrocytes. Molecular and Cellular Biochemistry 2002; 232: 81-85.
10. **Siddiqi NJ,** Saxena JK, Tripathi LM, Dutta GP, Pandey VC. Partial purification and characterization of hepatic xanthine oxidase of *Plasmodium yoelii nigeriensis* infected mice. J Parasitic Dis. 1996; 20 (2): 155-158.

**Carnitine**

1. **Siddiqi NJ,** Alhomida AS, Khan HA, Ong WY. A study on the distribution of different carnitine fractions in various tissues of bovine eye. [Cell Mol Biol (Noisy-le-grand).](http://www.ncbi.nlm.nih.gov/pubmed/23273193) 2012, 22;58(1):66-70.
2. AL-Madani HA, Al-Jafari AA, Alhomida AS, **Siddiqi NJ**, Sobki SH, AL-Khader AA. A comparative study of carnitine removal rate during haemodialysis with two different membranes. Medical Science Research 2000; 28: 23-27.
3. Al-Madani HA, AL-Jafari AA, Alhomida AS, **Siddiqi NJ**, Sobki SH, Al-Khader AA, Popovich WF. Impact of haemodialysis membranes on human serum total, free, short-chain acyl and long-chain acyl carnitine concentrations. Medical Science Research 1999; 27: 485-488.

**Malaria / Parasitology**

1. Ayaad TH, Ahmed AM, Al-Ghamdi MS, **Siddiqi NJ**, Al-Ghamdi AA, Ansari MJ. Mohamed AA. 2018. Histopathological impact in the larval gut of the honeybee, Apis mellifera jemenitica, upon infection with the American foulbrood bacterium, Paenibacillus larvae. Indian J. Pharmaceut. Educ. Res. 52, 268–276.
2. Al-Dakhil AA, Al-Ajmi RA, **Siddiqi NJ,** Ayaad TH. Molecular typing of phlebotomine sand flies in al-madinah and asir regions, Saudi Arabia using PCR–RFLP of 18S ribosomal RNA gene. Saudi Journal of Biological Sciences (2017) 24, 1697–1703.
3. **Siddiqi NJ**, Alhomida AS, Dutta GP, Pandey VC. Antagonist effect of Chloroquine and Tumor Necrosis Factor on Hepatic Oxidative Stress and Antioxidant Defense in normal and *Plasmodium yoelii* *nigeriensis* infected mice. In Vivo. 2002; 16: 67- 70.
4. Srivastava S, Alhomida AS, **Siddiqi NJ**, Pandey VC. Changes in rodent-erythrocyte Methemoglobin reductase system produced by two malaria parasites, viz. *Plasmodium yoelii nigeriensis* and *Plasmodium berghei.* Comparative Biochemistry and Physiology Part B 2001; 129: 725-731
5. Srivastava S, Alhomida AS, **Siddiqi NJ**, Pandey VC, Puri SK. Effect of beta-arteether treatment on erythrocytic methemoglobin reductase in *Plasmodium yoelii nigeriensis* infected mice. Drug and Chemical Toxicology. 2001; 24 (2): 181-190.
6. **Siddiqi NJ**, Alhomida AS, Maheshwari RK, Pandey VC. Effect of poly ICLC treatment on hepatic oxidative stress and antioxidant defense indices in *Plasmodium yoelii nigeriensis* infected mice. In Vivo. 2001; 15 (1): 77-80.
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8. Srivastava S, Alhomida AS, **Siddiqi NJ**. Studies on erythrocytic methemoglobin reductase systems in *Plasmodium yoelii nigeriensis* infected mice. In Vivo. 2000; 14 (4): 547-550.
9. **Siddiqi NJ,** Alhomida AS. Status of hepatic oxidative stress and antioxidant defense systems during chloroquine treatment of *Plasmodium yoelii nigeriensis* infected mice. In Vivo. 1999; 13 (6): 547-550.
10. **Siddiqi NJ**, Pandey VC. Studies on hepatic oxidative stress and antioxidant defense systems during arteether treatment of *Plasmodium yoelii nigeriensis* infected mice. Molecular and Cellular Biochemistry 1999; 196: 169-173.
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**Reviews**

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