

## Curriculum Vitae

**ZAFAR RASHEED, MS., Ph.D., PGDCA.**

### *Current Position:*

Research Scientist,  
Department of Medical Biochemistry,  
College of Medicine, Qassim University, Saudi Arabia  
Mobile: +966-531269227  
Email: [zafarrasheed@qumed.edu.sa](mailto:zafarrasheed@qumed.edu.sa)



### **Research profile:**

- ❖ <https://scholar.google.com/citations?user=QqPr99cAAAAJ&hl=en>
- ❖ <https://orcid.org/0000-0002-8651-4218>
- ❖ <https://www.scopus.com/authid/detail.uri?authorId=15021472400>
- ❖ <https://publons.com/researcher/1516780/zafar-rasheed/>

## **RESEARCH INTERESTS**

Gene regulation by microRNAs; signal transduction; osteoarthritis biology; inflammation; cancer immunology; animal models of autoimmune diseases including arthritis, vitiligo; inhibition of cellular signaling by natural products; family/community-based cross-sectional studies; free radicals mediated autoimmunity of systemic lupus erythematosus, psoriatic arthritis, rheumatoid arthritis *etc.*

## **EDUCATIONAL QUALIFICATIONS**

**PhD. in Biochemistry** - Faculty of Medicine, J.N. Medical College, A.M.U. Aligarh, India. 2006.

Thesis was evaluated by Professor Betty Diamond: The Center for Autoimmune and Musculoskeletal Diseases, Feinstein Institute for Medical Research, Manhasset, New York, USA.

**Master of Science in Biochemistry**- 1<sup>st</sup> Division, Faculty of Life Sciences, AMU, Aligarh, India. 2003.

**Post Graduate Diploma in Computer Application**, 1<sup>st</sup> Division, Madurai Kamaraj University, Madurai, India. 2001.

**Bachelor of Science in Biochemistry**- 1<sup>st</sup> Division, Faculty of Life Sciences, AMU, Aligarh, India. 2000.

## **ACADEMIC EMPLOYMENTS**

Sept 2010-Present –**Research Scientist**, Department of Medical Biochemistry, College of Medicine, Qassim University, Buraidah, KSA.

Nov 2009- Aug 2010 - **Post-Doctoral Scholar**, Department of Medicine, Division of Rheumatology, Metro Health Medical Center, Cleveland, Ohio 44109, USA.

March 2008- Nov 2009 - **Post-Doctoral Fellow**, Department of Pathology, Microbiology & Immunology, School of Medicine, University of South Carolina, Columbia, SC-29209, USA.

Oct 2007- March 2008 - **Research Associate**, Department of Medicine, Division of Rheumatic Diseases, Case School of Medicine, Case Western Reserve University, Cleveland, Ohio-44106, USA.

July 2006- Sep 2007 – **University Lecturer**, Department of Biochemistry, Division of Life Sciences, SBS-PGI Medical College, Dehradun-248161, India.

## **PUBLICATIONS: Peer-Reviewed Journal Articles**

1. **Rasheed Z\***, Alharbi A, Alrakebeh A, Almansour K, Almadi A, Almuzaini A, Salem M, Alobody B, Alkobair A, Albegami A, Alhomaïdan HT, Rasheed N, Alqossayir FM, Musa KH, Hamad EM, Al Abdulmonem W. (2022). Thymoquinone provides structural protection of human hemoglobin against oxidative damage:

- Biochemical studies. *Biochimie* 192:102-110. DOI: 10.1016/j.biochi.2021.10.005 (\*Corresponding author). PMID: 34655671. <https://pubmed.ncbi.nlm.nih.gov/34655671/>
2. Ahmed SS, Nohair SFA, Abdulmonem WA, Alhomaïdan HT, Rasheed N, Ismail MS, Albatanony MA, **Rasheed Z\***. (2022) Honey polyphenolic fraction inhibits cyclooxygenase-2 expression via upregulation of microRNA-26a-5p expression in pancreatic islets. *European Journal of Inflammation* 20:1-16. (\*Corresponding author). <https://doi.org/10.1177/20587392221076473>
  3. Aljohani ASM, Zaki AK, Abdulmonem WA, **Rasheed Z**, Alhumaydhi FA, Abo-Aziza FAM. (2022). Therapeutic approach for osteoporotic animal model by bone marrow mesenchymal stem cells. *J Appl Pharm Sci.* 12(01):149-58. [https://www.japsonline.com/admin/php/uploads/3546\\_pdf.pdf](https://www.japsonline.com/admin/php/uploads/3546_pdf.pdf)
  4. **Rasheed Z**. (2022). Perspective of COVID-19 on children and teenagers: An update. *International Journal of Health Sciences* 16 (1), 1-2. PMID: 35024027 <https://pubmed.ncbi.nlm.nih.gov/35024027/>
  5. Khodeir, M. M., Shabana, H. A., **Rasheed Z\***, Alkhamiss, A. S., Khodeir, M., Alkhowailed, M. S., Alharbi, S., Alsoghair, M., Alsagaby, S. A., & Al Abdulmonem, W. (2021). COVID-19: Post-recovery long-term symptoms among patients in Saudi Arabia. *PloS one*, 16(12), e0260259. DOI: 10.1371/journal.pone.0260259 (\*Corresponding author). PMID: 34879074. <https://pubmed.ncbi.nlm.nih.gov/34879074/>
  6. Almohaileb F, **Rasheed Z\***. (2021) Comparing the efficacies of bisphosphonates' therapies for osteoporosis persistence and compliance: a systematic review. *Current Molecular Medicine* Apr 13. doi: 10.2174/1566524021666210414100227. (\*Corresponding author). PMID: 33855941 <https://pubmed.ncbi.nlm.nih.gov/33855941/>
  7. **Rasheed Z**, Shariq A, AlQefari GB, Alwahbi GS, Aljuaythin AI, Alsuhibani FS, Alotaibi DF, Aljohani SS, Alghasham R, Alsaeed T, Alharbi NA, Rugaie OA, Abdulmonem WA, Sharaf OF. (2021) Toxoplasmosis in immunocompetent Saudi women: Correlation with vitamin D. *Womens Health (Lond).* 2021;17:17455065211043844. doi:10.1177/17455065211043844. PMID: 34541980. <https://pubmed.ncbi.nlm.nih.gov/34541980/>
  8. Khodeir MM, Shabana HA, Alkhamiss AS, **Rasheed Z\***, Alsoghaire M, Alsagaby SA, Khan MI, Fernández N, Abdulmonem WA. (2021) Early prediction keys for COVID-19 cases progression: A meta-analysis. *J Infection Public Health.* 14(5):561-569. (\*Corresponding author). PMID: 33848885. <https://pubmed.ncbi.nlm.nih.gov/33848885/>
  9. Al Abdulmonem W, Aljohani ASM, Alhumaydhi FA, Mousa AHM, **Rasheed Z\***. (2021) Protective potential of uric acid, folic acid, glutathione and ascorbic acid against the formation of toxic met-myoglobin. *Protein Pept Lett.* 28(3):282-289. (\*Corresponding author). PMID: 32957872. <https://pubmed.ncbi.nlm.nih.gov/32957872/>
  10. Raga S, **Rasheed Z\***, Ahmed AA, Salem T, Al Robaee AA, Alzolibani AA. (2021) Missense, silent, non-sense and frame-shift mutations in exon 3 of the filaggrin gene in patients with bronchial asthma, atopic dermatitis, allergic rhinitis and mixed atopy. *Nucleosides, Nucleotides & Nucleic Acids.* 40(3):357-367. (\*Corresponding author). PMID: 33538231. <https://pubmed.ncbi.nlm.nih.gov/33538231/>
  11. Abdulmonem WA, **Rasheed Z**, Alsagaby SA, Aljohanid ASM, Alkhamiss AS, Ahmed AA (2021). Impact of ERCC2 Lys751Gln (rs13181), ERCC2 Asp312Asn (rs1799793) and XRCC1 Arg399Gln (rs25487) polymorphisms on the risk of prostate cancer among cases from the central region of Saudi Arabia. *Gene Reports.* 24:101278. <https://doi.org/10.1016/j.genrep.2021.101278>
  12. Althwab SA, Ahmed AA, **Rasheed Z**, Alkhowailed M, Hershian A, Alsagaby S, Alblihed MA, Alaqeel A, Alrehaili J, Alhumaydhi FA, Alkhamiss A, Abdulmonem WA (2021). ATP2B1 genotypes rs2070759 and rs2681472 polymorphisms and risk of hypertension in Saudi population. *Nucleosides Nucleotides Nucleic Acids.* 40;11:1075-1089. PMID: 34486947. <https://pubmed.ncbi.nlm.nih.gov/34486947/>
  13. Rehan M, Alsohim AS, Abidou H, **Rasheed Z**, Al Abdulmonem W (2021). Isolation, identification, biocontrol activity, and plant growth promoting capability of a superior streptomyces tricolor strain HM10. *Pol J Microbiol.* Jun;70(2):245-256. PMID: 34349814. <https://pubmed.ncbi.nlm.nih.gov/34349814/>
  14. Alhomaïdan HT, **Rasheed Z**, Alsudais MM, AlMutairi AM, Alzaben KA, AlMutairi SM, Alissa LI, Widyan AM, Alkhamiss AS, Alduraibi SK, Al Abdulmonem W. (2021) Physicians based emergency medical services

for the management of burn injuries in trauma centers of the center region of Saudi Arabia: evaluation of physicians' knowledge and experience. *Int J Burns Trauma*. Jun 15;11(3):184-190. PMID: 34336383. <https://pubmed.ncbi.nlm.nih.gov/34336383/>

15. Alqossayir FM, Alkhowailed MS, Alammar AY, Alsaeed AA, Alamri YY, **Rasheed Z**. (2021). Factors associated with patients bypassing primary healthcare centres in Qassim Region, KSA. *J Taibah University Medical Sci*. 16(6), 900–905. DOI: 10.1016/j.jtumed.2021.07.012. PMID: 34899136. <https://pubmed.ncbi.nlm.nih.gov/34899136/>
16. Alkhowailed MS, **Rasheed Z**, Shariq A, Elzainy A, El Sadik A, Alkhamiss A, Alsolai AM, Alduraibi SK, Alduraibi A, Alamro A, Alhomaidan HT, Al Abdulmonem W. (2020). Digitalization plan in medical education during COVID-19 lockdown. *Inform Med Unlocked*. 20:100432. doi: 10.1016/j.imu.2020.100432. PMID: 32959020. <https://pubmed.ncbi.nlm.nih.gov/32959020/>
17. Al Robaee AA, Alzolibani AA, **Rasheed Z\***. (2020) Autoimmune response against tyrosinase induces depigmentation in C57BL/6 black mice. *Autoimmunity*. Oct 21:1-8. (\*Corresponding author). PMID: 33084421. <https://pubmed.ncbi.nlm.nih.gov/33084421/>
18. Ahmed AA, **Rasheed Z\***, Salem T, Al-Dhubaibi MS, Al Robaee AA, Alzolibani AA. (2020). TNF- $\alpha$  – 308 G/A and IFN- $\gamma$  + 874 A/T gene polymorphisms in Saudi patients with cutaneous leishmaniasis. *BMC Medical Genetics*. 21(1):104. (\*Corresponding author). PMID: 32404058. <https://pubmed.ncbi.nlm.nih.gov/32404058/>
19. Alabdulmonem W, **Rasheed Z\***, Al Ssadh H., Alkhamiss A, Aljohani ASM, Fernandez N. (2020). Bacterial lipopolysaccharide induces the intracellular expression of trophoblastic specific CD74 isoform in human first trimester trophoblast cells: correlation with unsuccessful early pregnancy. *J Rep Immunology* 141: 103152. (\*Corresponding author). PMID: 32521377. <https://pubmed.ncbi.nlm.nih.gov/32521377/>
20. Abdellatif AAH, **Rasheed Z**, Alhowail AH, Alqasoumi A, Alsharidah M, Khan RA, Aljohani ASM, Aldubayan MA, Faisal W (2020). Silver citrate nanoparticles inhibit PMA-induced TNF $\alpha$  expression via deactivation of NF- $\kappa$ B activity in human cancer cell-lines, MCF-7. *Int J Nanomedicine*. 15:8479-8493. <https://pubmed.ncbi.nlm.nih.gov/33154638/>
21. Al Abdulmonem W, **Rasheed Z\***, Aljohani A, Omran OM, Rasheed N, Alkhamiss A, AM Al Salloom A, Alhumaydhi F, Alblihed MA, Al Ssadh H, Khan MI, Fernández N. (2020). Absence of CD74 Isoform at 41kDa Prevents the Heterotypic Associations between CD74 and CD44 in Human Lung Adenocarcinoma-derived Cells. *Immunological investigations* 1–15. (\*Corresponding author). PMID: 32646312. <https://pubmed.ncbi.nlm.nih.gov/32646312/>
22. Alkhowailed MS, Alqossayir F, **Rasheed Z**, Alkhamiss A, Alsalloom AA, Ali A, Shariq A, Alamer A, Almohaileb FI, Alharb MH, Alhomaidan HT, Alsulmi HA, Abdulmonem WA. (2020). Comprehensive review on novel COVID-19: a Saudi perspective. *Arab Journal of Basic and Applied Sciences* 27(1): 480-491. <https://www.tandfonline.com/doi/full/10.1080/25765299.2020.1852731>
23. Alabdulmonem W, Shariq A, Alqossayir F, AbaAlkhalil FM, Al-Musallam AY, Alzaaqi FO, Aloqla AA, Alodhaylah SA, Alsugayyir AH, Aldoubiab RK, Alsamaany AN, Alhammad SH, **Rasheed Z\***. (2020) Sero-prevalence ABO and Rh blood groups and their associated Transfusion-Transmissible Infections among Blood Donors in the Central Region of Saudi Arabia. *J Infect Public Health*. 13(2):299-305. (\*Corresponding author). PMID: 31953019. <https://pubmed.ncbi.nlm.nih.gov/31953019/>
24. **Rasheed Z\***, Shariq A, Alsalhi A, Almesned S, Alhussain S, Alshammari A, Almatrudi M, Alshammari S, Alkhuzayyim S, Alkhamiss A, Alharbi MH, Abdulmonem WA. Inverse Correlation between Stress and Adaptive Coping in Medical Students. *Open Access Maced J Med Sci*. 2020 Oct 03; 8(E):623-629.. (\*Corresponding author). <https://doi.org/10.3889/oamjms.2020.5115>
25. Alabdulmonem W, Shariq A, **Rasheed Z\***. (2020). COVID-19: A global public health disaster. *Int J Health Sci*. 14 (3):7-8. (\*Corresponding author). PMID: 32536842. <https://pubmed.ncbi.nlm.nih.gov/32536842/>
26. Alabdulmonem W, **Rasheed Z**, Aljohani ASM, Almakrami M, Al Ssadh H, Fernández N. (2020). LPS subtypes activate inflammatory signaling through CD-14 and TLR-4 in human monocytic cells. *Res J Immunol*. 13(1): 1-9. <https://scialert.net/abstract/?doi=rji.2020.1.9>

27. Alkhowaileda M, Shariq A, Alqossayir F, Alzahranid OA, **Rasheed Z**, Abdulmonem WA (2020). Impact of meteorological parameters on COVID-19 pandemic: A comprehensive study from Saudi Arabia. *Informatics Med Unlocked*. Aug 28:100418. PMID: 32875061. <https://pubmed.ncbi.nlm.nih.gov/32875061/>
28. **Rasheed Z\*** (2020). Why is cancer becoming a global endemic today? *Int J Health Sci*. 14 (5):1-2. (\*Corresponding author). PMID: 32952499. <https://pubmed.ncbi.nlm.nih.gov/32952499/>
29. **Rasheed Z\***, Al-Rashidy M, Al-Raqibah A, Al-Moqbel A, Al-Bakri A, Al-Harbi A, Rasheed N, Al Abdulmonem W. Experience of Cancer Patients for the Usage of Complementary and Alternative Medicine Therapy. *Open Access Maced J Med Sci*. 2020 Sep 03; 8(E):521-527. (\*Corresponding author). <https://doi.org/10.3889/oamjms.2020.5012>
30. **Rasheed Z\***, Shariq A, Alsalhi A, Almesned S, Alhussain S, Alshammari A, Almatrudi M, Alshammari S, Alkhuzayyim S, Alkhamiss A, Alharbi MH, Abdulmonem WA (2020) Inverse Correlation between Stress and Adaptive Coping in Medical Students. *Open Access Maced J Med Sci*. 2020 Sep.23; 8(E):623-9. 5115 (\*Corresponding author). <https://doi.org/10.3889/oamjms.2020>
31. Saqr M, Al-Mohaimed A, **Rasheed Z** (2020). Tear down the walls: disseminating open access research for a global impact. *Int J Health Sci*. 14 (5):43-49. PMID: 32952504. <https://pubmed.ncbi.nlm.nih.gov/32952504/>
32. **Rasheed Z\***, Rasheed N, Al Abdulmonem W, Khan MI. (2019) MicroRNA-125b-5p regulates IL-1 $\beta$  induced inflammatory genes via targeting TRAF6-mediated MAPKs and NF- $\kappa$ B signaling in human osteoarthritic chondrocytes. *Scientific Reports* May 3;9(1):6882. (\*Corresponding author). PMID: 31053727. <https://www.nature.com/articles/s41598-019-42601-3>
33. **Rasheed Z\***, Rasheed N, Al-Shaya O. (2018). Epigallocatechin-3-O-gallate modulates global microRNAs expression in interleukin-1 $\beta$ -stimulated human osteoarthritis chondrocytes: Potential role of EGCG on negative co-regulation of microRNA-140-3p and ADAMTS5. *Eur J Nutr*. Apr 57(3):917-928. (\*Corresponding author). PMID: 28110479. <https://link.springer.com/article/10.1007/s00394-016-1375-x>
34. **Rasheed Z\***, Rasheed N, Al-Shobaili HA. (2016). Epigallocatechin-3-O-gallate up-regulates microRNA-199a-3p expression by down-regulating the expression of cyclooxygenase-2 in stimulated human osteoarthritis chondrocytes. *J Cell Mol Med*. Dec;20(12):2241-2248. (\*Corresponding author). PMID: 27515563. <https://onlinelibrary.wiley.com/doi/10.1111/jcmm.12897>
35. **Rasheed Z\***, Al-Shobaili HA, Rasheed N, Al Salloom AAM, Al-Shaya O, Mahmood A, Alajez NM, Alghamdi ASS, Mehana EE (2016). Integrated study of globally expressed microRNAs in IL-1 $\beta$ -stimulated human osteoarthritis chondrocytes and osteoarthritis relevant genes: a microarray and bioinformatics analysis. *Nucleosides Nucleotides Nucleic Acids*. May 6:1-21. (\*Corresponding author). PMID: 27152662. <https://pubmed.ncbi.nlm.nih.gov/27152662/>
36. **Rasheed Z\***, Al-Shobaili HA, Rasheed N, Mahmood A, Khan MI (2016) MicroRNA-26a-5p regulates the expression of inducible nitric oxide synthase via activation of NF- $\kappa$ B pathway in human osteoarthritis chondrocytes. *Arch Biochem Biophys*. 594: 61-67. (\*Corresponding author) PMID: 26854724. <https://pubmed.ncbi.nlm.nih.gov/26854724/>
37. Rasheed N, Alghasham A, **Rasheed Z\*** (2016) Lactoferrin from *Camelus dromedarius* inhibits nuclear transcription Factor-kappa B activation, cyclooxygenase-2 expression and prostaglandin E2 production in stimulated human chondrocytes. *Pharmacognosy Res*. 8(2): 135-141. (\*Corresponding author) PMID: 27034605. <https://pubmed.ncbi.nlm.nih.gov/27034605/>
38. Alghasham A, **Rasheed Z\***. (2014) Therapeutic targets for rheumatoid arthritis: progress and promises. *Autoimmunity* 47:77-94. (\*Corresponding author). PMID: 24437572. <https://pubmed.ncbi.nlm.nih.gov/24437572/>
39. **Rasheed Z\***, Haqqi TM (2012) Endoplasmic Reticulum Stress Induces the Expression of COX-2 Through Activation of eIF2 $\alpha$ , p38-MAPK and NF- $\kappa$ B in Advanced Glycation End Products Stimulated Human Chondrocytes. *Biochim Biophys Acta (Mol Cell Structure)*. 1823(12):2179-2189. (\*Corresponding author). PMID: 22982228. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4509732/>
40. **Rasheed Z**, Akhtar N, Haqqi TM. (2011). Advanced glycation end products (AGEs) induce the expression of interleukin (IL)-6 and IL-8 by RAGE mediated activation of MAPKs and NF- $\kappa$ B in human osteoarthritis

chondrocytes. *Rheumatology (Oxford)* 50(5):838-51.PMID: 21172926.  
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41. **Rasheed Z**, Akhtar N, Haqqi TM. (2010). Pomegranate extract inhibits the interleukin-1 $\beta$ -induced activation of MKK-3, p38 $\alpha$ -MAPK and transcription factor RUNX-2 in human osteoarthritis chondrocytes. *Arthritis Res Therapy* 18:12:R195. (Highly Accessed Article) PMID: 20955562. <https://arthritis-research.biomedcentral.com/articles/10.1186/ar3166>
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43. **Rasheed Z**, Anbazhagan AN, Akhtar N, Ramamurthy S, Voss FW, Haqqi TM. (2009) Green Tea Polyphenol epigallocatechin-3-gallate Inhibits Advanced Glycation End Product-Induced Expression of Tumor Necrosis Factor-Alpha and Matrix metalloproteinase-13 in Human Chondrocytes. *Arthritis Res Therapy* 11(3):R71. (Highly Accessed Article) PMID: 19445683. <https://arthritis-research.biomedcentral.com/articles/10.1186/ar2700>
44. **Rasheed Z**, Akhtar N, Anbazhagan AN, Ramamurthy S, Shukla M, Haqqi TM. (2009) Polyphenol-rich pomegranate fruit extract (POMx) suppresses PMACI-induced expression of pro-inflammatory cytokines by inhibiting MAP Kinases and NF- $\kappa$ B pathways in human KU812 cells. *J Inflammation (London)* 6:1. (Number one in top 10 most accessed articles; (Highly Accessed Article). PMID: 19133134. <https://journal-inflammation.biomedcentral.com/articles/10.1186/1476-9255-6-1>
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46. **Rasheed Z**\*. (2008) Hydroxyl radical damaged Immunoglobulin G in patients with rheumatoid arthritis: Biochemical and immunological studies. *Clinical Biochem* 41; 663-9. (\*Corresponding author) PMID: 18359293. <https://pubmed.ncbi.nlm.nih.gov/18359293/>
47. Shukla M, Gupta K, **Rasheed Z**, Khan KA, Haqqi TM. (2008) Consumption of hydrolyzable tannins-rich pomegranate extract suppresses inflammation and joint damage in rheumatoid arthritis. *Nutrition* 24; 733-43. PMID: 18490140. <https://pubmed.ncbi.nlm.nih.gov/18490140/>
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49. Alhomaidan HT, Rasheed N, Almatrafi S, Al-Rashdi FH, **Rasheed Z**\* (2019) Bisphenol A modified DNA: A possible immunogenic stimulus for anti-DNA autoantibodies in systemic lupus erythematosus. *Autoimmunity* 52(7-8):272-280. (\*Corresponding author). PMID: 31656085. <https://pubmed.ncbi.nlm.nih.gov/31656085/>
50. Rasheed N, **Rasheed Z**\* (2019) Oxidative biomolecular damage: A possible mechanism for systemic autoimmunity: Oxidative damaged induces autoimmunity. *Int J Health Sci.* 13(5):1-3. (\*Corresponding author). PMID: 31501645. <https://pubmed.ncbi.nlm.nih.gov/31501645/>
51. **Rasheed Z**\*, Ahmed AA, Salem T, Al-Dhubaibi MS, Al Robaee AA, Alzolibani AA. (2019) Prevalence of Leishmania species among patients with cutaneous leishmaniasis in Qassim province of Saudi Arabia. *BMC Public Health.* Apr 5;19(1):384. (\*Corresponding author). PMID: 30953481. <https://pubmed.ncbi.nlm.nih.gov/30953481/>
52. **Rasheed Z**\*. (2019) Molecular evidences on health benefits of drinking black tea. *Int J Health Sci.* 13 (3): 1-5. (\*Corresponding author). PMID: 31123432. <https://pubmed.ncbi.nlm.nih.gov/31123432/>
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## **BOOK CHAPTER**

**Rasheed Z**, Akhtar N, Haqqi TM. Cytokine networks and MAPKs – Toward new therapeutic targets for rheumatoid arthritis. Book: *Modern Insights into Disease from Molecules to Man: Cytokines*. Editors: Victor R. Preedy & Ross Hunter, Kings College London, Franklin-Wilkins Building, 150 Stamford Street, London, SE1 9NH, UK. International Standard Book Number (ISBN) 9781578086900; CAT# N10368; June 24; 2011; 31-47 pages. CRC Press: Taylor and Francis Group. SICIENCE Publishers, Enfield, USA. Online details- <http://www.crcnetbase.com/doi/abs/10.1201/b11037-5>

## **REVIEWS AND EDITORIAL ARTICLES**

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3. Khodeir MM, Shabana HA, Alkhamiss AS, **Rasheed Z\***, Alsoghaire M, Alsagaby SA, Khan MI, Fernández N, Abdulmonem WA. (2021) Early prediction keys for COVID-19 cases progression: A meta-analysis. *J Infection Public Health*. 14(5):561-569. PMID: 33848885. doi: 10.1016/j.jiph.2021.03.001. <https://pubmed.ncbi.nlm.nih.gov/33848885/>
4. Alkhowailed MS, Alqossayir F, **Rasheed Z**, Alkhamiss A, Alsalloom AA, Ali A, Shariq A, Alamer A, Almohaileb FI, Alharb MH, Alhomaïdan HT, Alsulmi HA, Abdulmonem WA. (2020). Comprehensive review on novel COVID-19: a Saudi perspective. *Arab Journal of Basic and Applied Sciences* 27(1): 480-491. <https://www.tandfonline.com/doi/full/10.1080/25765299.2020.1852731>

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## **RESEARCH GRANTS**

### **1. 11-BIO1885-09. Role of microRNAs modulations by green tea polyphenol EGCG in arthritis**

Agency: **King Abdulaziz City for Science and Technology (KACST) / National Science Technology Innovation Plan (NSTIP).**

**Role:** Principal Investigator and Director of Research.

Total Cost: SR. 1,882,000.

(This grant received an impact score of 12.3 out of 15).

**Status:** Completed

**Output:** (1) Scientific Reports 2019;9(1):6882. (2) Eur J Nutr. 2018;57(3):917-28. (3) J Cell Mol Med. 2016;20(12):2241-8. (4) Nucleosides Nucleotides Nucleic Acids 2016;6:1-21. (5) Arch Biochem Biophys 2016;594:61-7. (All published as corresponding author)

**2. SR-D-014-2549. Effect of camel lactoferrin on gene expression of cyclooxygenase-2 and production of prostaglandin E2 in stimulated human osteoarthritis chondrocytes**

**Role:** Principal Investigator and Director of Research.

**Agency:** Scientific Research Deanship, Qassim University, KSA.

**Total Cost:** SR 43,600.

**Status:** Completed

**Output:** Pharmacognosy Res. 2016;8(2): 135-141. (Published as corresponding author)

**2. 3827-med-2018-1-14-S. Evaluation of bisphenol A induced DNA damage and its associated autoimmunity in patients with systemic lupus erythematosus**

**Role:** Co-Investigator and Director of Research.

**Agency:** Scientific Research Deanship, Qassim University, KSA.

**Total Cost:** SR 53,000.

**Status:** Final Report submitted

**Output:** Autoimmunity 2019;52(7-8):272-280. (Published as corresponding author)

**3. Effects of camel milk on patients with autoimmune diabetes in Qassim Region, Saudi Arabia.**

**Role:** Co-Investigator and Director of Research.

**Agency:** Scientific Research Deanship, Qassim University, KSA.

**Category:** Multidisciplinary Scheme

2019-2021

**Role:** Co-investigator and Director of Research

**Total Cost:** SR 92,000.

**Status:** Ongoing (20% completed)

**4. Molecular Genetics of the Parasite and Human Host in Cases with Cutaneous Leishmaniasis and its Relation to Management and Prognosis**

**Agency:** *National Science Technology Innovation Plan (NSTIP).*

**Role:** Co-investigator and Director of Research

**Status:** Completed.

**Output:** (1) BMC Medical Genetics 2020;21(1):104. (2) BMC Public Health. 2019;19(1):384.

(Both published as corresponding author)

**5. Complete sequence analysis of filaggrin gene, association with allergic markers and environmental risk factors in Saudi subjects with atopic phenotypes**

**Agency:** *National Science Technology Innovation Plan (NSTIP).*

**Role:** Co-investigator and Director of Research

**Status:** Ongoing (80% completed)

**Output:** (1) Clin Mol Allergy. 2018;12;16:23. (2) Intractable Rare Dis Res. 2018;7(4):264-270. (3) Nucleosides Nucleotides Nucleic Acids – 2021 - (All published as corresponding author)

**6. SR-D-014-2829. Evaluation of functional role of interleukin-32 in patients with psoriasis and psoriatic arthritis**

**Role:** Principal Investigator and Director of Research.

**Agency:** Scientific Research Deanship, Qassim University, KSA.

Total Cost: SR 56,700.

**Status:** Completed

**Output:** (1) Int J Health Sci. 2018;12(3):26-34. (2) Diseases. 2018 Mar 14;6(1):21. (Both published as corresponding author)

**7. SR-D-013-2332. Toxoplasma gondii infection among patients at Prince Faisal bin Bandar Cancer Center, Qassim, Saudi Arabia.**

Role: Co-Investigator.

Agency: Research Deanship, Qassim University, KSA.

Total Cost: SR 30,600.

**Status:** Completed

**Output:** Saudi Med J. 2017;38(3):319-321.

**8. SR-D-012-1743. A clinical and immunological study of beta-lactam antibiotic hypersensitivity in Saudi children of the Qassim region.**

Role: Co-Investigator and Director of Research.

Agency: Scientific Research Deanship, Qassim University, KSA.

Total Cost: SR 49,200.

**Status:** Completed

**Output:** Int J Appl Basic Med Res. 2016;6(4):276-281. (Published as corresponding author)

**9. SR-D-014-2528. Evaluation of gene expression of Toll-like receptor (TLR)-2 and -4 on peripheral blood mononuclear cells in patients with alopecia areata**

Role: Co-Investigator and Director of Research.

Agency: Scientific Research Deanship, Qassim University, KSA.

Total Cost: SR 49,400.

**Status:** Completed

**Output:** Biochim Biophys Acta Clinical. 2016;5:134-142. (Published as corresponding author)

**11. SR-D-014-2551. Evaluation of cross reactivity of anti-ROS-modified-albumin with commonly occurring autoantigens of psoriasis: Role of ROS-induced epitopes in autoimmune reactions in patients with psoriasis.**

Role: Co-Investigator and Director of Research.

Agency: Scientific Research Deanship, Qassim University, KSA.

Total Cost: SR 54,000.

**Status:** Completed.

**Output:** Saudi Med J. 2015;36(12):1408-19. (Published as corresponding author)

**12. SR-D-012-1750. Evaluation of levels of inflammatory mediators TNF-alpha, IL-1beta and IL-6 in the serum of patients of vitiligo and their correlation with the risk of occurrence of diabetes mellitus as a co-morbid condition.**

Role: Co-Investigator and Director of Research.

Agency: Scientific Research Deanship, Qassim University, KSA.

Total Cost: SR 50,000.

**Status:** Completed

**Output:** British J Biomed Sci. 2014; 71(4):151-7. (Published as corresponding author)

**13. SR-D-012-1298. Immunochemical studies of peroxynitrite damaged mitochondrial DNA in patients with systemic lupus erythematosus and vitiligo**

Role: Principal Investigator and Director of Research.  
Agency: Scientific Research Deanship, Qassim University, KSA.  
Total Cost: SR 56,700.

**Status:** Completed

**Output:** (1) Human Immunology 2014;75(10):1053-61. (2) Lupus 2013; 22(10):1024-37. (Both published as corresponding author)

**14. SR-D-011-952. Immunological studies of peroxy-nitrite-modified thymidine-5'-monophosphate in patients with systemic lupus erythematosus**

Role: Principal Investigator and Director of Research.  
Agency: Research Deanship, Qassim University, KSA.  
Total Cost: SR 64,700.

**Status:** Completed

**Output:** (1) Nucleosides Nucleotides Nucleic Acids 2015;34(1):56-68. (2) Nucleosides Nucleotides Nucleic Acids 2012;31(10):736-51. (Both published as corresponding author)

**15. SR-D-011-1022. Detection of GAD65 and tyrosine phosphatase autoantibodies in type 1 diabetes patients**

Role: Co-Investigator and Director of Research.  
Agency: Research Deanship, Qassim University, KSA.  
Total Cost: SR 45,000.

**Status:** Completed

**Output:** J Diabetes Res Clin Met. 2013;2:24. (Published as corresponding author)

**16. Transdifferentiation of different types of adult stem cells into melanocyte-like cells as regenerative tissues candidate for depigmentation disorders**

Agency: *National Science Technology Innovation Plan (NSTIP)*.

**Role:** Co-investigator and Director of Research

**Status:** 80% Completed.

**Output:** Autoimmunity. 2020 Dec;53(8):459-466. doi: 10.1080/08916934.2020.1836489. (Published as corresponding author)

**17. RO1-AT-003267, RO1-AT-005520, R21-AT504615. Mechanisms of chondroprotection by pomegranate extract in arthritis**

Role: Post-Doctoral Researcher.

Agency: National Institute of Health/National Center for Complementary and Alternative Medicine grants, United States  
2007-2010.

**Status:** Completed

**Output:** (1) Biochim Biophys Acta. 2012 Dec;1823(12):2179-89. (2) Rheumatology (Oxford). 2011 May;50(5):838-51. (3) Arthritis Res Ther. 2010;12(5):R195. (4) J Pharmacol Exp Ther. 2010 May;333(2):354-63. (5) Arthritis Rheum. 2010 May;62(5):1361-71. (6) Arthritis Res Ther. 2009;11(3):R71. (7) J Inflamm (Lond). 2009 Jan 8;6:1. (8) Curr Rheumatol Rev. 2008 Nov 1;4(4):246. (9) J Inflamm (Lond). 2008 Jun 13;5:9. (10) Nutrition. 2008 Jul-Aug;24(7-8):733-43.

## AWARDS AND HONOURS

**2019 - Best Researcher Excellence Award** (SAR 50,000 or USD 13,331.5) for outstanding research performance in medicine from Qassim University on April 13, 2019. Award was given by the University Rector.

- 2018 – Best Oral Presentation Award**, 12<sup>th</sup> Medical Research Symposium organized by the Qassim University, Saudi Arabia on December 18, 2018. Topic - Autoantibodies against hydroxyl radicals modified histone in patients with systemic lupus erythematosus: Biochemical and immunological studies.
- 2017- Best Oral Presentation Award**, 11th Research Symposium organized by College of Medicine, Qassim University, Saudi Arabia on Dec 5, 2017. Topic: Protective potential of thymoquinone against peroxynitrite induced modifications in histone H2A: In vitro studies.
- 2009- Best Poster Award** (research team). American College of Rheumatology Scientific Meeting (ACR/ARHP), Philadelphia, USA on October 17-21, 2009. Topic of the poster - Regulation of MMP-13 Expression in Human Chondrocytes by MicroRNA-27b.
- 2009– Best Poster Award** (research team). Osteoarthritis Research Society International (ORRSI-World congress on osteoarthritis), Montreal, Canada on Sept 10-13, 2009. Topic of the poster - MicroRNA-27b (miR-27b) Regulates the Expression of MMP-13 in Human Osteoarthritis Chondrocytes.
- 2008 – Best Poster Award** (research team). Satellite Meeting of Society for Free Radical Research, India organized by All India Institute of Medical Sciences, New Delhi, India on Feb 11-12, 2008. Topic of the poster - Biochemical Analysis of Advanced Glycation end Products Damaged Immunoglobulin G.
- 2007 – Best Poster Award** (research team). 2nd Science Congress, Uttaranchal State Council for Science and Technology, organized by Kumaon University, Nainital, India on Nov 4, 2007. Topic of poster -Comparative study of two different methods of DNA isolation from human blood.
- 2007- Best Oral Presentation Award** (research team). National conference on Microbial diversity: Avenues and applications, held in SBSPGI, Dehradun, India on March 17-18, 2007. Topic of presentation - Hydroxyl radical damaged human serum albumin in patients with type 1 diabetes mellitus: biochemical and immunological studies.

## CONFERENCES AND INVITED TALKS

### Podium Presentations

- 2021 - Rasheed Z.** A lecture on ‘General lab biosafety rules during COVID-19 Pandemic’. Faculty Development Unit (FDU), College of Medicine, Qassim University, Saudi Arabia. November 23.
- 2019 - Rasheed Z.** A lecture on ‘The awareness of the lab safety procedures’. Faculty Development Unit (FDU), College of Medicine, Qassim University, Saudi Arabia. Dec 31st.
- 2019 – Rasheed Z.** A lecture on ‘Diabetes and methods of its prevention’ was given as a part of community service on Diabetes day Nov 14<sup>th</sup> in Buraidah Technical College, Buraidah, Qassim, KSA.
- 2018 - Rasheed Z.** MicroRNAs are novel regulators of inflammatory genes in osteoarthritis. Faculty Development Unit (FDU), College of Medicine, Qassim University, Saudi Arabia. May 1st.
- 2018 - Rasheed Z.** MicroRNAs modulation in interleukin-1 $\beta$ -stimulated human osteoarthritis chondrocytes. Department of Physiotherapy Program, College of Medical Rehabilitation, Qassim University, Saudi Arabia. April 11.
- 2018 - Rasheed Z.** Autoantibodies against hydroxyl radicals modified histone in patients with systemic lupus erythematosus: Biochemical and immunological studies. 12<sup>th</sup> Medical Research Symposium, Qassim University, Saudi Arabia. Dec 18th.
- 2017 - Rasheed Z.** MicroRNA hsa-miR125b-5p regulates the expression of MMP-13 via modulation of TRAF-6, p38-MAPK and NF- $\kappa$ B signaling events in IL-1 $\beta$ -stimulated human osteoarthritis chondrocytes. 11th Medical Research Symposium, College of Medicine, Qassim University, Saudi Arabia. Dec 5th.
- 2017 - Rasheed Z.** Protective potential of thymoquinone against peroxynitrite induced modifications in histone H2A: In vitro studies. 11th Research Symposium of College of Medicine, Qassim University, Saudi Arabia. Dec 5<sup>th</sup>.
- 2016 - Rasheed Z.** MicroRNAs modulation in IL-1 $\beta$ -stimulated human osteoarthritis chondrocytes. 10th Medical Research Symposium, College of Medicine, Qassim University, Saudi Arabia. March 28-29.

- 2015 - Rasheed Z.** Oxidized tyrosinase: a possible antigenic stimulus for non-segmental vitiligo autoantibodies. 9th Medical Research Symposium, College of Medicine, Qassim University, Saudi Arabia. May 3<sup>rd</sup>.
- 2014 - Rasheed Z.** Mitochondrial DNA acquires immunogenicity after exposure of nitrosative stress in patients with non-segmental vitiligo. 8th Medical Research Symposium, College of Medicine, Qassim University, Saudi Arabia. May 3-4th.
- 2013 - Rasheed Z.** Biochemical and immunological studies of ROS modified Histone-H2A in patients with systemic lupus erythematosus. 7th Medical Research Symposium, College of Medicine, Qassim University, Saudi Arabia. April 14th. (Also available – on YOUTUBE - [https://www.youtube.com/watch?v=Gj2wM096\\_Sc](https://www.youtube.com/watch?v=Gj2wM096_Sc))
- 2012 - Rasheed Z.** Role of oxidized albumin in the onset of autoimmunity in patients with systemic lupus erythematosus, type 1 diabetes mellitus and cancer. Journal Club Meeting organized by Pharmacy College, Qassim University, Saudi Arabia. Feb 13th.

### **Poster Presentations & Refereed Conference Publications**

- 2016 - Rasheed N, Alsamaani AS, Mozah AAAB, **Rasheed Z.** Epigallocatechin-3-gallate inhibits inflammation via modulation of microRNAs expression in human osteoarthritis chondrocytes. 10th Research Symposium, College of Medicine, Qassim University, Saudi Arabia. March 28-29.
- 2015 - Rasheed N, Alghasham A, **Rasheed Z.** Lactoferrin inhibits IL-1 $\beta$  induced activation of NF- $\kappa$ B signaling events in human osteoarthritis chondrocytes: suppression of COX-2 expression and PGE2 production. 9th Research Symposium, College of Medicine, Qassim University, Saudi Arabia. May 3rd.
- 2010 - Akhtar N, **Rasheed Z,** Haqqi TM. Post-transcriptional regulation of cyclooxygenase-2 expression by microRNA-199a\* in human OA chondrocytes. Osteoarthritis Research Society International (OARSI-World congress on osteoarthritis). SQUARE-Brussels Meeting Centre, Brussels, Belgium. Oct. Cited: Osteoarthritis and Cartilage, Volume 18, Supplement 2, October 2010, Pages S88-S89. doi:10.1016/S1063-4584(10)60211-7.
- 2009 - **Rasheed Z,** Akhtar N, Anbazhagan AN, Voss FW, Haqqi TM. Green Tea Polyphenol EGCG Inhibits Advanced Glycation End Products-Induced Endoplasmic Reticulum Stress Stimulated Expression of COX-2 in Human Chondrocytes. American College of Rheumatology Scientific Meeting (ACR/ARHP), Philadelphia, USA. Oct 17-21. Cited: Arthritis Rheumatism 2009;60Suppl 10 :1303. DOI: 10.1002/art.26377.
- 2009 - Akhtar N, **Rasheed Z,** Anbazhagan AN, Voss FW, Haqqi TM. Regulation of MMP-13 Expression in Human Chondrocytes by MicroRNA-27b. American College of Rheumatology Scientific Meeting (ACR/ARHP), Philadelphia, USA Oct 17-21. Cited: Arthritis Rheumatism 2009;60Suppl 10 :1304. DOI: 10.1002/art.26378.
- 2009 - Akhtar N, **Rasheed Z,** Anbazhagan AN, Voss FW, Haqqi TM. Modulation of mir-27b Expression and Regulation of MMP-13 Production by EGCG in IL-1 $\beta$  Stimulated Human Osteoarthritic Chondrocytes. American College of Rheumatology Scientific Meeting (ACR/ARHP), Philadelphia, USA. October 17-21, 2009. Cited: Arthritis Rheumatism 2009; 60 Suppl 10 :1305. DOI: 10.1002/art.26379.
- 2009 - **Rasheed Z,** Akhtar N, Anbazhagan AN, Voss FW, Haqqi TM. Green Tea Polyphenol Epigallocatechin-3-Gallate (EGCG) Inhibits Advanced Glycation End Products-Induced Expression of Tumor Necrosis Factor- $\alpha$  and Matrix Metalloproteinase-13 in Human Osteoarthritis Chondrocytes. Osteoarthritis Research Society International (OARSI-World congress on osteoarthritis), Montreal, Canada. Sept 10-13. Cited: Osteoarthritis and Cartilage, Volume 17, Supplement 1, September 2009, Pages S119-S120. doi:10.1016/S1063-4584(09)60232-6.
- 2008 - Kumar L, Sajid, Ahmad R, **Rasheed Z.** Biochemical Analysis of Advanced Glycation end Products Damaged Immunoglobulin G. Satellite Meeting of Society for Free Radical Research, India organized by All India Institute of Medical Sciences, New Delhi, India. Feb 11-12.

- 2008 - Prasad I, **Rasheed Z**, Ahmad R. Biochemical Studies of Human DNA modified with Singlet Oxygen. Satellite Meeting of Society for Free Radical Research, India organized by All India Institute of Medical Sciences, New Delhi, India. Feb 11-12.
- 2007 - Kaushal E, Ahmad R, Chaurasia N, Singh D, Rajput K, **Rasheed Z**. Characterization of DNA modified with reactive nitrogen species. National conference on Microbial diversity: Avenues and applications, held in SBSPGI., Dehradun, India. March 17-18.
- 2007 - Kaushal E, Singh D, **Rasheed Z**, Ahmad R. Comparative study of two different methods of DNA isolation from human blood. 2nd Science Congress, Uttaranchal State Council for Science and Technology, organized by Kumaon University, Nainital, India. Nov.
- 2007 - Prasad I, Ahmad R, Misra AK, Chandel A, Upreti N, Barnwal G, **Rasheed Z**. Effect of photoillumination on bovine serum albumin modified with riboflavin. National conference on Microbial diversity: Avenues and applications, held in SBSPGI., Dehradun, India. March 17-18.
- 2007 - **Rasheed Z**, Kumar L, Sajid, Barthwal D, Chaudhary V, Ansari NA, Ahmad R. Reactive oxygen species damaged immunoglobulin G presents unique epitopes for type 1 diabetes autoantibodies. National conference on Microbial diversity: Avenues and applications, held in SBSPGI., Dehradun, India. March 17-18.
- 2007 - Ahmad R, **Rasheed Z**, Srivastava RK, Kausahl E, Singh D. In vitro modification of DNA by L-DOPA and Uric Acid. Souvenir 2007 national seminars organized by Doon P.G. College & Hospital, Dehradun, India. Feb 4-5.
- 2007 - Ahmad R, **Rasheed Z**, Singh A, Prasad I. Characterization of calf-thymus DNA modified with pyrogallol. Souvenir 2007 national seminars organized by Doon P.G. College & Hospital, Dehradun, India. Feb 4-5.
- 2007 - **Rasheed Z**, Ahmad R, Ali R. Role of reactive oxygen species damaged human serum albumin in the etiopathogenesis of systemic lupus erythematosus. 33rd Indian Immunology Society Conference, organized by All India Institute of Medical Sciences, New Delhi, India. Jan 28-31.
- 2006 - Ahmad R, **Rasheed Z**, Mittal RM, Kaushal E. Protein modification by uric acid and Cu (II): Studies on production of reactive oxygen species. 75th SBC meeting organized by JNU, New Delhi, India. Dec 8-11.
- 2006 - Ahmad R, **Rasheed Z**, Chandel A, Prasad I. Characterization of human DNA modified with singlet oxygen. 75th SBC meeting organized by JNU, New Delhi, India. Dec 8-11.
- 2006 - **Rasheed Z**, Ahmad R, .Kumar L, Triphati T. Reactive oxygen species modification of Immunoglobulin G and its implication type 1 diabetes patients. 75th SBC meeting organized by JNU, New Delhi, India. Dec 8-11.
- 2006 - Khan MWA, **Rasheed Z**, Ali R. Structural and Immunological Studies on in vitro Glycated Human Serum Albumin. National meeting on immunology in health and disease, organized by CSJMU. Kanpur, India. Jan 11-12.
- 2006 - **Rasheed Z**, Khan MWA, Ali R. Hydroxyl radical modification of human serum albumin generate cross reactive antibodies in experimental animals. National meeting on immunology in health and disease, organized by CSJMU. Kanpur, India. Jan 11-12.

### **Papers Presented**

- 2018** – “Autoantibodies against hydroxylradicals modified histone in patients with systemic lupus erythematosus: Biochemical and immunological studies”. 12<sup>th</sup> Medical Research Symposium, Qassim University, Saudi Arabia. December 18.
- 2018** – “MicroRNAs are novel regulators of inflammatory genes in osteoarthritis”. Faculty Development Lecture, College of Medicine, Qassim University, Saudi Arabia. May 1st.
- 2018** – “MicroRNAs modulation in interleukin-1 $\beta$ -stimulated human osteoarthritis chondrocytes”. Department of Physiotherapy Program, College of Medical Rehabilitation, Qassim University, Saudi Arabia. April 11th.

- 2017** – “MicroRNA hsa-miR125b-5p regulates the expression of MMP-13 via modulation of TRAF-6, p38-MAPK and NF- $\kappa$ B signaling events in IL-1 $\beta$ -stimulated human osteoarthritis chondrocytes”. 11th Research Symposium of College of Medicine, Qassim University, Saudi Arabia. December 5th.
- 2017** – “Protective potential of thymoquinone against peroxynitrite induced modifications in histone H2A: In vitro studies” 11th Research Symposium of College of Medicine, Qassim University, Saudi Arabia. December 5th.
- 2016** – “MicroRNAs modulation in IL-1 $\beta$ -stimulated human osteoarthritis chondrocytes”. 10th Research Symposium of College of Medicine, Qassim University, Saudi Arabia. March 28-29.
- 2016** – “Epigallocatechin-3-gallate inhibits inflammation via modulation of microRNAs expression in human osteoarthritis chondrocytes”. 10th Research Symposium of College of Medicine, Qassim University, Saudi Arabia. March 28-29.
- 2015** – “Oxidized tyrosinase: a possible antigenic stimulus for non-segmental vitiligo autoantibodies”. 9th Scientific Meeting in College of Medicine, Qassim University, Saudi Arabia. May 3rd.
- 2015** – “Lactoferrin inhibits IL-1 $\beta$  induced activation of NF- $\kappa$ B signaling events in human osteoarthritis chondrocytes: suppression of COX-2 expression and PGE2 production”. 9th Scientific Meeting in College of Medicine, Qassim University, Saudi Arabia. May 3rd.
- 2014** – “Mitochondrial DNA acquires immunogenicity after exposure of nitrosative stress in patients with non-segmental vitiligo”. 8th Scientific Meeting in College of Medicine, Qassim University, Saudi Arabia. May 3-4th.
- 2013** – “Biochemical and immunological studies of ROS modified Histone-H2A in patients with systemic lupus erythematosus”. 7th Scientific Meeting in College of Medicine, Qassim University, Saudi Arabia. April 19th.
- 2012** – “Role of oxidized albumin in the onset of autoimmunity in patients with systemic lupus erythematosus, type 1 diabetes mellitus and cancer”. Journal Club Meeting organized by Pharmacy College, Qassim University, Saudi Arabia. Feb 13th.
- 2009** – “Green Tea Polyphenol EGCG Inhibits Advanced Glycation End Products-Induced Endoplasmic Reticulum Stress Stimulated Expression of COX-2 in Human Chondrocytes”. American College of Rheumatology Scientific Meeting (ACR/ARHP), Philadelphia, USA. Oct 17-21. Cited: *Arthritis Rheumatism* 2009;60Suppl 10 :1303. DOI: 10.1002/art.26377.
- 2009** – “Regulation of MMP-13 Expression in Human Chondrocytes by MicroRNA-27b”. American College of Rheumatology Scientific Meeting (ACR/ARHP), Philadelphia, USA. Oct 17-21. Cited: *Arthritis Rheumatism* 2009;60Suppl 10 :1304. DOI: 10.1002/art.26378.
- 2009** – “Modulation of Mir-27b Expression and Regulation of MMP-13 Production by EGCG in IL-1 $\beta$  Stimulated Human Osteoarthritic Chondrocytes”. American College of Rheumatology Scientific Meeting (ACR/ARHP), Philadelphia, USA. Oct 17-21. Cited: *Arthritis Rheumatism* 2009;60Suppl 10 :1305. DOI: 10.1002/art.26379.
- 2009** – “Green Tea Polyphenol Epigallocatechin-3-Gallate (EGCG) Inhibits Advanced Glycation End Products-Induced Expression of Tumor Necrosis Factor- $\alpha$  and Matrix Metalloproteinase-13 in Human Osteoarthritic Chondrocytes”. Osteoarthritis Research Society International (OARSI-World congress on osteoarthritis),

Montreal, Canada. Sept 10-13. Cited: Osteoarthritis and Cartilage, Volume 17, Supplement 1, September 2009, Pages S119-S120.doi:10.1016/S1063-4584(09)60232-6.

- 2009** – “MicroRNA-27b (miR-27b) Regulates the Expression of MMP-13 in Human Osteoarthritis Chondrocytes. Osteoarthritis Research Society International (OARSI-World congress on osteoarthritis), Montreal, Canada. Sept 10-13. Cited: Osteoarthritis and Cartilage, Volume 17, Supplement 1, September 2009, Page S12.doi:10.1016/S1063-4584(09)60030-3.
- 2008** – “Biochemical Analysis of Advanced Glycation end Products Damaged Immunoglobulin G”. Satellite Meeting of Society for Free Radical Research, India organized by All India Institute of Medical Sciences, New Delhi, India. Feb 11-12.
- 2008** – “Biochemical Studies of Human DNA modified with Singlet Oxygen”. Satellite Meeting of Society for Free Radical Research, India organized by All India Institute of Medical Sciences, New Delhi, India. Feb 11-12.
- 2007** – “Characterization of DNA modified with reactive nitrogen species”. National conference on Microbial diversity: Avenues and applications, held in SBSPGI., Dehradun, India. Mar 17-18.
- 2007** – “Comparative study of two different methods of DNA isolation from human blood”. 2nd Science Congress, Uttaranchal State Council for Science and Technology, organized by Kumaon University, Nainital, India. Nov.
- 2007** – “Effect of photoillumination on bovine serum albumin modified with riboflavin”. National conference on Microbial diversity: Avenues and applications, held in SBSPGI., Dehradun, India. Mar 17-18.
- 2007** – “Hydroxyl radical damaged human serum albumin in patients with type 1 diabetes mellitus: biochemical and immunological studies”. National conference on Microbial diversity: Avenues and applications, held in SBSPGI., Dehradun, India. Mar 17-18.
- 2007** – “Reactive oxygen species damaged immunoglobulin G presents unique epitopes for type 1 diabetes autoantibodies”. National conference on Microbial diversity: Avenues and applications, held in SBSPGI., Dehradun, India. Mar 17-18.
- 2007** - In vitro modification of DNA by L-DOPA and Uric Acid. Souvenir 2007 national seminars organized by Doon P.G. College & Hospital, Dehradun, India. Feb 4-5.
- 2007** - Ahmad R, Rasheed Z, Singh A, Prasad I. Characterization of calf-thymus DNA modified with pyrogallol. Souvenir 2007 national seminars organized by Doon P.G. College & Hospital, Dehradun, India. Feb 4-5.
- 2007** - Role of reactive oxygen species damaged human serum albumin in the etiopathogenesis of systemic lupus erythematosus. 33rd Indian Immunology Society Conference, organized by All India Institute of Medical Sciences, New Delhi, India. Jan 28-31.
- 2006** - Protein modification by uric acid and Cu (II): Studies on production of reactive oxygen species. 75th SBC meeting organized by JNU, New Delhi, India. Dec 8-11.
- 2006** – “Characterization of human DNA modified with singlet oxygen”. 75th SBC meeting organized by JNU, New Delhi, India. Dec 8-11.

2006 – “Reactive oxygen species modification of Immunoglobulin G and its implication type 1 diabetes patients”. 75th SBC meeting organized by JNU, New Delhi, India. Dec 8-11.

2006 – “Structural and Immunological Studies on in vitro Glycated Human Serum Albumin”. National meeting on immunology in health and disease, organized by CSJMU. Kanpur, India. Jan 11-12.

2006 – “Hydroxyl radical modification of human serum albumin generate cross reactive antibodies in experimental animals”. National meeting on immunology in health and disease, organized by CSJMU. Kanpur, India. Jan 11-12.

## INTERNATIONAL AND NATIONAL RESEARCH COLLABORATION

- (1). Faculty of Medicine, School of Public Health, University of Queensland, Brisbane, Australia.
- (2). School of Biological Sciences, University of Essex, Colchester, United Kingdom.
- (3). School of Computing, University of Eastern Finland, Joensuu Campus, Yliopistokatu, Joensuu, Finland.
- (4). Department of Biotechnology and Genetic Engineering, Bharathidasan University, Tiruchirappalli, India
- (5). Central Laboratories, Egyptian Ministry of Health, Tanta, Egypt.
- (6). Institute of Genetics, School of Biology, Queens Medical Center, Medical School, Nottingham, United Kingdom.
- (7). Department of Orthopedics, King Fahd Medical City, Riyadh, Saudi Arabia.
- (8). Stem Cell Unit, Department of Anatomy, College of Medicine, King Saud University, Riyadh, Saudi Arabia.
- (9). Department of Dermatology, College of Medicine, King Saud University, Riyadh, KSA.
- (10). College of Medicine, Al-Baha University, Baha, Saudi Arabia
- (11). Department of Medical Biochemistry, School of Medicine Taif University, Taif, Saudi Arabia.
- (12). Biochemistry Department, College of Medicine, Imam Abdulrahman Bin Faisal University, Saudi Arabia.

### **Evidences of collaboration: Publication Outcomes**

1. Alabdulmonem W, Rasheed Z\*, Al Ssadh H., Alkhamiss A, Aljohani ASM, Fernandez N. (2020). Bacterial lipopolysaccharide induces the intracellular expression of trophoblastic specific CD74 isoform in human first trimester trophoblast cells: correlation with unsuccessful early pregnancy. *Journal of Reproductive Immunology* 141: 103152. (\*Corresponding author). PMID: 32521377.  
<https://www.sciencedirect.com/science/article/abs/pii/S0165037820300735?via%3Dihub>
2. Al Abdulmonem W, Rasheed Z\*, Aljohani A, Omran OM, Rasheed N, Alkhamiss A, AM Al Salloom A, Alhumaydhi F, Alblihed MA, Al Ssadh H, Khan MI, Fernández N. (2020). Absence of CD74 Isoform at 41kDa Prevents the Heterotypic Associations between CD74 and CD44 in Human Lung Adenocarcinoma-derived Cells. *Immunological investigations* 1–15. (\*Corresponding author). PMID: 32646312.  
<https://pubmed.ncbi.nlm.nih.gov/32646312/>
3. Alkhawaileda M, Shariq A, Alqossayir F, Alzahrani OA, Rasheed Z, Abdulmonemf WA (2020). Impact of meteorological parameters on COVID-19 pandemic: A comprehensive study from Saudi Arabia. *Informatics Med Unlocked*. Aug 28:100418. PMID: 32875061  
<https://www.sciencedirect.com/science/article/pii/S2352914820305682>
4. Saqr M, Al-Mohaimed A, Rasheed Z (2020). Tear down the walls: Disseminating open access research for a global impact. *Int J Health Sci*. 14 (5):43-49.  
<https://ijhs.org.sa/index.php/journal/article/view/5427/1020>

5. Rasheed Z\*, Rasheed N, Al Abdulmonem W, Khan MI. (2019) MicroRNA-125b-5p regulates IL-1 $\beta$  induced inflammatory genes via targeting TRAF6-mediated MAPKs and NF- $\kappa$ B signaling in human osteoarthritic chondrocytes. *Scientific Reports (NATURE)* May 3;9(1):6882. (\*Corresponding author). PMID: 31053727.  
<https://www.nature.com/articles/s41598-019-42601-3>
6. Ssadh HA, Abdulmonem WA, Rasheed Z, Madar IH, Alhoderi J, Eldeen SKN, Alradhwan A, Alasmael N, Alkhamiss A, Fernández N.(2019) Knockdown of CD-74 in the Proliferative and Apoptotic Activity of Breast Cancer Cells. *Open Access Maced J Med Sci.* Oct 14;7(19):3169-3176. PMID: 31949511.  
<https://pubmed.ncbi.nlm.nih.gov/31949511/>
7. Rasheed Z\*, Rasheed N, Al-Shaya O. (2018). Epigallocatechin-3-O-gallate modulates global microRNAs expression in interleukin-1 $\beta$ -stimulated human osteoarthritis chondrocytes: Potential role of EGCG on negative co-regulation of microRNA-140-3p and ADAMTS5. *Eur J Nutr.* Apr 57(3):917-928. (\*Corresponding author). PMID: 28110479.  
<https://link.springer.com/article/10.1007/s00394-016-1375-x>
8. Rasheed Z\*, Al-Shobaili HA, Rasheed N, Al Salloom AAM, Al-Shaya O, Mahmood A, Alajez NM, Alghamdi ASS, Mehana EE (2016). Integrated study of globally expressed microRNAs in IL-1 $\beta$ -stimulated human osteoarthritis chondrocytes and osteoarthritis relevant genes: a microarray and bioinformatics analysis. *Nucleosides Nucleotides Nucleic Acids.* May 6:1-21. (\*Corresponding author). PMID: 27152662.  
<https://pubmed.ncbi.nlm.nih.gov/27152662/>
9. Rasheed Z\*, Alzolibani AA!, Saif GB, Al-Dhubaibi MS, Al Robaee AA (2016). Altered expression of intracellular Toll-like receptors in peripheral blood mononuclear cells from patients with alopecia areata. *Biochim Biophys Acta Clinical.* 5:134-142. !As co-first authors. (\*Corresponding author). PMID: 27114923.  
<https://www.sciencedirect.com/science/article/pii/S2214647416300101?via%3Dihub>
10. Rasheed Z\*, Al-Shobaili HA, Rasheed N, Mahmood A, Khan MI (2016) MicroRNA-26a-5p regulates the expression of inducible nitric oxide synthase via activation of NF- $\kappa$ B pathway in human osteoarthritis chondrocytes. *Arch Biochem Biophys.* 594: 61-67. (\*Corresponding author) PMID: 26854724.  
<https://www.sciencedirect.com/science/article/abs/pii/S0003986116300224?via%3Dihub>
11. Rasheed Z\*, Alzolibani AA, Al-Shobaili HA, Ghada SB, Al Robaee AA. (2014). Biochemical and immunological studies on erythrocytes superoxide dismutase modified by nitric oxide in patients with alopecia areata: Implications in alopecia patchy persistent and alopecia universalis. *Immunology Letter* 160 (1): 50-57. (\*Corresponding author) (Highly Accessed Article) PMID: 24694751.  
<https://www.sciencedirect.com/science/article/abs/pii/S0165247814000534?via%3Dihub>

## TEACHING EXPERIENCE

**Sept 2010 - Present.** Involving in teaching of the following Biochemistry subjects to Undergraduate Medical Students of College of Medicine, Qassim University, Buraidah, KSA.

- ❖ Amino acids and Protein. Block - Man and his environment and metabolism block.
- ❖ Electron transport chain. Block - Man and his environment and metabolism block.
- ❖ Enzymes. Block - Man and his environment and metabolism block.
- ❖ Krebs cycle. Block - Man and his environment and metabolism block.
- ❖ Biochemical, glassware, sampling in laboratories. Block - Man and his environment and metabolism block.

- ❖ DNA replication. Block - Growth and Development block.
- ❖ Biochemical basis of cancer. Block - Principles of Diseases
- ❖ Bioenergetics for cardiac muscle. Block - Cardiovascular System
- ❖ Immunology

**July 2006 - Sep 2007.** Worked as a *Lecturer* in Biochemistry Department, SBS Post Graduate Institute, Dehradun-248161, India. Involved in the teaching of the following subjects to Graduate and Undergraduate Students.

- ❖ Enzymology - Master of Science Biochemistry First Year Students.
- ❖ Enzymology - Master of Science Microbiology First Year Students.
- ❖ Clinical Biochemistry - Master of Science Biochemistry Final Year Students.
- ❖ Biochemical Techniques - Master of Science Biochemistry Final Year Students.
- ❖ Basic Biochemistry – Nucleic Acids and Protein - Under-graduate students of Bachelor Medical Lab. Technology (BMLT).

**Sept 2003 - July 2006.** Worked as a *Lecturer* (part-time) in MAS College of Para-Medical Sciences, Taj Hospital Complex, Aligarh, India.  
General Biology and Chemistry - Undergraduate students.

## RESEARCH EXPERIENCE

**Sept 2010 – Present.** Assistant Professor/Director of Research, Department of Medical Biochemistry, College of Medicine, Qassim University, Buraidah, KSA.

Working as a *Research Group Leader* for many research projects. Work concerned with microRNA regulations in various cell types, osteoarthritis, human cartilage biology, inflammation, arthritis, free radicals mediated autoimmunity in patients with vitiligo, systemic lupus erythematosus, autoimmune diabetes, psoriasis, psoriatic arthritis, alopecia areata, acne vulgaris and various cancers patients. Studies are also focusing on anti-disease action of active constituents of natural products on various cell types, mechanisms behind their action and the signaling pathways are involving, effect of these products on micro RNA regulation covering the base of the work.

**Nov 2009- Aug 2010.** Post-Doctoral Scholar. Department of Medicine, Division of Rheumatology, Metro Health Medical Center, Cleveland, Ohio 44109, USA.  
(Mentor: Professor N. Singer).

Worked as a *Senior Post-Doctoral Scholar*, work concerned with human osteoarthritic chondrocytes biology, human rheumatoid arthritic synoviocytes biology, inflammation and arthritis including working with animal models using surgical instability models of osteoarthritis-destabilization of the medial meniscus (DMM) in the mouse knee joints and rabbit *anterior cruciate ligament transaction (ACLT) surgery*. Besides these, also supervised Juniors' Fellows, the Rheumatology Residents and the Summer Students.

**March 2008- Nov 2009.** Post-Doctoral Fellow. Department of Pathology, Microbiology & Immunology, School of Medicine, University of South Carolina, Columbia, SC-29209, USA.  
(Mentor: Professor T.M. Haqqi).

Worked as a *Post-Doctoral Fellow*, Studies focused on anti-arthritic action of the natural products and their active constituents on osteoarthritic chondrocytes, human mast cells, human bone cancer cells etc., mechanism behind their action and the signaling pathways involved, effect of these products on micro RNA regulation covers the base of the work using modern molecular-cellular and immunological techniques. Besides these, also supervised Juniors' Fellows, the Rheumatology Residents and the Summer Students.

**Oct 2007- March 2008.** Research Associate. Department of Medicine, Division of Rheumatic Diseases, Case School of Medicine, Case Western Reserve University, Cleveland, Ohio-44106, USA.

(Mentor: Professor T.M. Haqqi).

Worked as a **Research Associate**, studies concerned human chondrocytes biology, inflammation and arthritis including working with animal models. Studies were identified the molecular events affected by natural products like green tea, pomegranate fruit extract and their active constituents that inhibit the spectrum of cell signal transduction pathways and the downstream pathogenic cellular responses in exerting their anti-inflammatory and anti-arthritic effects. (Lab moved to USC, Columbia). Besides these, also supervised Juniors' Fellows, and the Summer Students.

**July 2006- Sep 2007.** Lecturer. Department of Biochemistry, Division of Life Sciences, SBS (PGI) Medical College, Dehradun-248161, India.

Worked as a *Lecturer and Researcher*: Supervised four Masters' Biochemistry students for their MS thesis. Students' names: Amar Deep Thakur, Vaishali Rani Garg, Lokendra Kumar and Sajid Khan. Thesis work was divided into two projects entitled: "Role of glycated Immunoglobulin G in patients with type 1 diabetes" and "Peroxynitrite damaged human serum albumin in patients with type 1 & 2 diabetes mellitus: biochemical and immunological studies".

**July 2003- Aug 2006.** Doctoral Research. Lab. of Immunology, Department of Biochemistry, Faculty of Medicine, A.M.U. Aligarh-202002, India.

(Mentor: Professor R. Ali).

Worked on "Reactive oxygen species modification of different plasma proteins and nucleic acids: biochemical and immunological studies" for Ph.D. thesis.

**July 2002- June 2003.** Molecular Biology Lab., Department of Biochemistry, Faculty of Life Sciences, AMU, Aligarh, India.

(Mentor: Professor S.M. Hadi).

Worked on project entitled "Partial purification and characterization of single-strand-specific nucleases from gram and pea seedlings" as a part of MS. Curriculum.

#### **TECHNIQUES ACQUANTED WITH:**

- **DMM surgery of mice or rats knee:** Surgical instability model of osteoarthritis - destabilization of the medial meniscus (DMM) in mice & rats knee joints. (This surgical training was taken from Dr. Sonya S. Glasson, Wyeth Research Center, Cambridge, Massachusetts, USA).
- **ACLT surgery in rabbit knee:** Anterior cruciate ligament transection (ACLT) model of osteoarthritis in rabbits knee joints. (This surgical training was taken from Dr. Jean Walter at Case Western Reserve University, Ohio, USA).
- **Cell Culture:** Extensive experience in handling and maintenance various cell culture including PBMCs, melanocytes, human sarcoma cell line SAOS2, HTB94, human leukemia cell line KU812, human mast cell line

HMC-1, human macrophage cell line U937, mice macrophage cell line RAW264, etc. Isolation & maintenance of chondrocytes from human knee and hips for primary culture. Isolation & maintenance of chondrocytes from mice femur and tibia. Isolation & maintenance synoviocytes from human rheumatoid arthritis synovium. Transfection of cells by electroporation, lipofectamine, calcium chloride reagents. Drug inhibition assay in cell culture.

- **Animal Models:** Collagen induced arthritis (CIA) model for autoimmune arthritis, Vitiligo model, Breast cancer model and Skin cancer model.
- **Immunological Techniques:** Western immunoblotting, ELISA, Counter immunoelectrophoresis, Immunodiffusion, Gel retardation assays, Dot blot assays, Immunoprecipitation, In-vitro kinase assays, Zymography, Cytokine array, etc.
- **Molecular Biology Techniques:** Micro-RNA analysis, Microarray, Real time-PCR, Gene cloning methods, Competent cell preparation, Transfection, Transformation, Restriction digestion, etc.
- **RNA Biology:** Total RNA isolation by Trizol, Mirvana, Qiagen and Quick gene methods, cDNA synthesis and RT-PCR.
- **Bioinformatics Tools:** MicroRNA target prediction methods (Target Scan, PicTar, Miranda, RNA hybrid), Oligo software for primer designing, Blast Search, DNA tools, Gene finder, NCBI BLAST.
- **Laboratory Skills:** Enzyme assays, Protein purification, DNA/RNA extraction, Native/Denaturing PAGE, Circular dichromism, Fluorescence & UV. Spectroscopy, HPLC, Serology, Affinity chromatography, Ion-exchange chromatography, Gel exclusion chromatography, etc.

#### **ONLINE RESEARCH PROFILES**

Web of Science Researcher ID: J-6135-2018; ORCID: 0000-0002-8651-4218

Direct link to the Research profile:

- ❖ <https://scholar.google.com/citations?user=QqPr99cAAAAJ&hl=en>
- ❖ <https://orcid.org/0000-0002-8651-4218>
- ❖ <https://www.scopus.com/authid/detail.uri?authorId=15021472400>
- ❖ <https://publons.com/researcher/1516780/zafar-rasheed/>

#### **SERVICES**

##### **SERVICE - EDITORIAL BOARD MEMBER**

**2018 – Present. EXECUTIVE EDITOR.** International Journal of Health Sciences (IJHS), ISSN 1658-3639, Thomson Reuters Indexed Journal. IJHS is a PUBMED indexed journal started in 2006. It is a peer-reviewed publication covering all areas of medical sciences from basic to clinical research. <https://ijhs.org.sa/index.php/journal/about/editorialTeam>

Assigned duties are:

- (a) Responsible for making all major editorial decisions.
- (b) Responsible for revising journal policies.
- (c) Monitoring of ALL article processing from submission to publication.
- (d) Responsible to solve all types of editorial issues.
- (e) Initial screening of ALL submitted articles.
- (f) Final screening of ALL articles after editorial processing.
- (g) Reviewing of all articles on molecular biology, immunology, biochemistry, molecular genetics etc.
- (h) Making of Journal Issues and sending for publication.

**2021 – Present.** Editorial Member. Pharmacognosy Magazine [ISSN: Print -0973-1296, Online - 0976-4062]  
<https://www.phcog.com/editorialboard.asp>- Recorded on 2/2/2021

**2019 – Present.** Editorial Member. International Journal of Biochemistry & Physiology  
<https://medwinpublishers.com/IJBP/editorial-board.php> - Recorded on 4/15/2020

**2019 – Present.** Editorial Member. Biomed Research and Health Advances.  
<http://www.medtextpublications.com/biomed-research-and-health-advances-editorial-board.php>– Recorded on 3/23/2020.

**2019 – Present.** Editorial Member. Annals of Stem Cell Research.  
[https://www.somatopublications.com/annals\\_stem\\_cell\\_research/editorial\\_board.php](https://www.somatopublications.com/annals_stem_cell_research/editorial_board.php) – Recorded on 3/23/2020.

**2018–Present.** Editorial Member. United Journal of Biochemistry and Biotechnology.  
<https://www.untprimepub.com/united-journal-of-biochemistry-and-biotechnology/editor.php> – Recorded on 3/23/2020.

**2018 – Present.** Editorial Member. Journal of Integrative Medicine.  
<https://ojs.bilpublishing.com/index.php/jim/about/editorialTeam> – Recorded on 3/23/2020.

**2018 – Present.** Editorial Member. CPQ Orthopedics.  
<https://www.cientperiodique.com/journal/editorboard/orthopaedics> – Recorded on 3/23/2020.

**2018 – Present.** Editorial Member. Annals of Bone and Joint Surgery.  
<http://www.remedypublications.com/annals-of-bone-and-joint-surgery/editorialboard.html>– Recorded on 3/23/2020.

**2018 – Present.** Editorial Member. Clinics in Foot and Ankle Surgery.  
<http://www.remedypublications.com/clinics-in-foot-ankle-surgery/editorialboard.html> – Recorded on 3/23/2020.

**2018 – Present.** Editorial Member. The General Surgeon.  
<http://www.medtextpublications.com/the-general-surgeon-editorial-board.php> – Recorded on 3/23/2020.

**2018 – Present.** Editorial Member. CPQ Microbiology.  
<https://www.cientperiodique.com/journal/editorboard/microbiology> - Recorded on 3/23/2020.

**2018 – 2019.** Editorial Member of ‘Annals of Short Reports’.  
<http://www.remedypublications.com/annals-of-short-reports-editorial-board.php> - Recorded on 3/23/2020.

**2017 – 2018.** ASSOCIATE EDITOR-IN-CHIEF. International Journal of Health Sciences.

**2015 – 2017.** SECTION EDITOR. International Journal of Health Sciences.

### **SERVICE - REVIEWER**

Updated information is also available on <https://publons.com/researcher/1516780/zafar-rasheed/>

### **MANUSCRIPTS REVIEWED ON RECORD**

Reviewed: Jan 2021 for Molecular Medicine Reports  
Reviewed: Jan 2021 for European Journal of Inflammation  
Reviewed: Jan 2021 for Science Progress  
Reviewed: Jan 2021 for Autoimmunity  
Reviewed: Dec 2020 for Experimental and Therapeutic Medicine  
Reviewed: Dec 2020 for Immunopharmacology and Immunotoxicology  
Reviewed: Dec 2020 for Autoimmunity  
Reviewed: Dec 2020 for Molecular Medicine Reports  
Reviewed: Nov 2020 for Journal of Pain Research  
Reviewed: Nov 2020 for Oncology Reports  
Reviewed: Nov 2020 for Autoimmunity  
Reviewed: Nov 2020 for Clinical Interventions in Aging  
Reviewed: Nov 2020 for Current Molecular Pharmacology  
Reviewed: Aug 2020 for Molecular Medicine Reports  
Reviewed: Aug 2020 for Journal of Cellular and Molecular Medicine  
Reviewed: Aug 2020 for Autoimmunity  
Reviewed: Jul 2020 for Current Molecular Pharmacology  
Reviewed: Jun 2020 for Cell Biology International  
Reviewed: Jun 2020 for Cell Biology International  
Reviewed: Jun 2020 for Molecular Medicine Reports  
Reviewed: May 2020 for Biocell  
Reviewed: May 2020 for Gene Reports  
Reviewed: May 2020 for Clinical Interventions in Aging  
Reviewed: May 2020 for Informatics in Medicine Unlocked  
Reviewed: May 2020 for International Journal of Dermatology and Clinical Research  
Reviewed: May 2020 for Current Molecular Pharmacology  
Reviewed: Apr 2020 for Genetic Testing and Molecular Biomarkers  
Reviewed: Apr 2020 for Journal of Infection and Public Health  
Reviewed: Apr 2020 for Current Molecular Pharmacology  
Reviewed: Apr 2020 for Journal of International Medical Research  
Reviewed: Apr 2020 for Mediators of Inflammation  
Reviewed: Apr 2020 for Inflammation Research  
Reviewed: Apr 2020 for Journal of Medical Science  
Reviewed: Apr 2020 for Clinical Interventions in Aging  
Reviewed: Mar 2020 for Yale Journal of Biology and Medicine  
Reviewed: Mar 2020 for Japanese Journal of Gastroenterology and Hepatology  
Reviewed: Mar 2020 for Current Molecular Pharmacology  
Reviewed: Mar 2020 for International journal of health sciences  
Reviewed: Mar 2020 for International journal of health sciences  
Reviewed: Mar 2020 for IUBMB Life  
Reviewed: Jul 2018 for Biomolecular Detection and Quantification  
Reviewed: Jul 2018 for Scientific Reports

#### STUDENTS SUPERVISED

**2019- Present.** Supervisor of NINE medical undergraduate students (Adel Alharbi, Abdullah Alrakebeh, Khaled Almansour, Abdulaziz Almadi, Ahmed Almozini, Mohammed Salem, Basem Alabodi, Abdulsalam Alkobair,

Ahmed Albogami) for Human and Illness in Community (HIC-2) group 3, Dept. of Family & Community Medicine, College of Medicine, Qassim University, KSA.

**Project of Title:** Evaluation of the protective potential of black seed component thymoquinone against reactive oxygen species induced damage in human hemoglobin.

**2018-2020.** Supervisor of FIVE medical undergraduate students (Mohammed Al-Rashidy, Anas Al-Raqibah, Abdulrahman Al-Moqbel, Abdulmajeed Al-Bakri, Abdulaziz Al-Harbi) for Human and Illness in Community (HIC) group 7, Dept. of Family & Community Medicine, College of Medicine, Qassim University, KSA.

**Project of Title:** Knowledge and Awareness of Complementary and Alternative Medicine among Cancer Patients Visiting in King Fahd Specialist Hospital, Buraidah, Al-Qassim, Saudi Arabia

**2018-2020.** Supervisor of SEVEN medical undergraduate students (Mohammad I. Aldekhail, Turki S. Alayed, Abdullah K. Altuwayjiri, Fahad A. Alolayan, Musa M. Almuhanha, Ahmed A. Alorini, Majed A. Almutairy) for basic techniques for antigen preparation and screen of autoantibodies in patients with systemic lupus erythematosus to medical students. College of Medicine, Qassim University, KSA.

**2017-2018.** Supervisor of NINE medical undergraduate students (Abdulilah S. Al-Bossiera, Nasser A. Alnassera, Omar S. Alkharraza, Khalid M. Altuwayjiria, Abdulaziz S. Alobaida, Ahmad K. Alsaifa, Yazeed H. Alanazia, Bassam A. Alghidania, Muath A. Alduayjia, Sultan A. Alsuhaibanib) for basic techniques for antigen preparation and screen of autoantibodies in patients with various autoimmune diseases to undergraduate medical students, College of Medicine, Qassim University, KSA.

**2016-2018.** Sultan A. Alsuhaibanib. Employee of Qassim University KSA. Teaching and supervising basic techniques for cell culture and treatment, preparation of RNA and cDNA, real-time PCR, Western blotting, ELISAs *etc.* Supervision of all research basic techniques for antigen preparation and screen of autoantibodies in patients with various autoimmune diseases.

**2017-2018.** Abdullah AA. Altorbag, Rafi S. Alaboutdi and Abdulaziz A. Alabdullgader. Undergraduate medical students, College of Medicine, Qassim University, KSA. Teaching and supervision of basic techniques for cell culture and treatment, preparation of RNA and cDNA, real-time PCR, Western blotting, ELISAs *etc.*

**2015-2017.** Badr S. Al-Harbi and Fahad O. Al-Harbi. Undergraduate medical students. College of Medicine, Qassim University, KSA. Teaching and supervision of basic techniques for antigen preparation and screen of autoantibodies in patients with various autoimmune diseases.

**2013-2015.** Ali Ayesha Bu Mozah and Mohammad S. Alsamaani. Undergraduate medical students, College of Medicine, Qassim University, KSA. Teaching and supervision basic techniques for cell culture and treatment, preparation of RNA and cDNA, real-time PCR.

**2011-2013.** Mohammad Al-Anazi and Ahmad S. Al-Ghamdi. Undergraduate medical students, College of Medicine, Qassim University, KSA. Teaching and supervision of basic techniques for free radicals mediated autoimmunity of systemic lupus erythematosus.

**2009-2010.** Alexa Magyari, Graduate Student (2009-10) MetroHealth Medical Center, Cleveland, Ohio, USA. Teaching and supervising for basic techniques involved in human chondrocytes/synoviocytes biology, inflammation and arthritis.

**2006-2007.** Lokender Kumar, MSc Student SBSPGI Dehradun, India. Teaching and supervision for Post Graduate Biochemistry thesis entitled "Role of glycosylated Immunoglobulin G in patients with type 1 diabetes".

**2006-2007.** Sajid Khan, MSc. Student SBSPGI Dehradun, India. Teaching and supervision for Post Graduate Biochemistry thesis entitled “Role of glycated Immunoglobulin G in patients with type 1 diabetes”.

**2006-2007.** Vaishali Rani Garg, MSc. Student SBSPGI Dehradun, India. Teaching and supervision for Post Graduate Biochemistry thesis entitled “Peroxynitrite damaged human serum albumin in patients with type 1 & 2 diabetes mellitus: biochemical and immunological studies”.

**2006-2007.** Amar Deep Thakur, MSc. Student SBSPGI Dehradun, India. Teaching and supervision for Post Graduate Biochemistry thesis entitled “Peroxynitrite damaged human serum albumin in patients with type 1 & 2 diabetes mellitus: biochemical and immunological studies”.

**2005-2006.** Trevendra Tripathi, MSc. Student, Faculty of Medicine, AMU, Aligarh, India. Teaching and supervision (with Dr. Rashid Ali) for Post Graduate Biotechnology thesis entitled “Hydroxyl radical modified IgG in patients with non-insulin dependent diabetes”.