



RESEARCH, MEDICAL EDUCATION AND SCHOLARLY ACTIVITIES OF AUSOMA FACULTY 2020-2023

A. RESEARCH ACTIVITIES

A.1. PUBLICATIONS

A. ORIGINAL ARTICLES

1. Mishra, T. 2023. Evaluation of the rate of Neisseria meningitides Infection in the United States from 2010 to 2020. *Int J Med Micro Trop Dis.* 9(1):66-69.
2. Joshi, M., Dwibedi V., Rath, S.K., **Mishra, T.**, Kaur, S. 2023. Process Optimization of Antimicrobial Activity of Adhatoda Vasica Against MDR Pathogens Using Response Surface Methodology. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* /doi.org/10.1007/s40011-023-01504-0.
3. Verma S, Donovan J, **Bhat S**, Tunuguntla H, Tunuguntla R, Gupta B, et al. Intervention on depression and insomnia symptoms during the Covid-19 pandemic. *Ann Med Res Pract* 2021;2:5.
4. Khan S et al. 2020. The effect of freshwater acidification in the tissues of Cyprinus carpio. *Global Journal of Zoology* 5(1): 009-015
5. Yadav SK, Singh SAC, **Yadav R.** 2020. Determining the angle of femoral torsion and association with shaft length and mid circumference. *AJMS* 11(3): 58-61
6. **Yadav, R.**, Ghimire, N., Mukhopadhyay, S., & Yadav, S. (2020). Prevalence of anemia among medical students of nobel medical college and correlation with body mass index. *Asian Journal of Medical Sciences*, 11(3), 62-66.
7. **Khan S, Singh P**, Rashmi, Zefenkey Z, Ibrahim AA, Rana S. Clinical significance of Hepatitis B Virus - Genotypes and correlation of HBV-DNA with the liver enzyme in pregnant female. *Acta Scientific Women's health journal.* 2(4): 21-26
8. **Khan S, Singh P**, Rana S. 2020. Evolution of ECG Abnormalities in Immune Dysfunction Exacerbation Patients with Chronic Obstructive Pulmonary Disease. *Acta Scientific Microbiology* 3(4): 195-201
9. **Khan S, Singh P**, Zefenkey Z, Rana S. 2020. Novel Coronavirus-2019 (COVID-19)- A genetically mutant of Severe Acute Respiratory Syndrome β -Coronavirus. *Acta Scientific Microbiology* 3(4): 225-232



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B. REVIEWS

1. Singh, P., Khan, S., Ahmed, S. 2023. Management of infected Urachal Cyst and the pattern of drug resistance in the isolate. *Onkologia i Radioterapia*. 17 (2) : 68-72
2. Mishra, T. 2023. Impact of Diet on Gut Microbiome. *G.J. Nut. Food*. DOI: 10.33552/GJNFS.2023.04.000586
3. Singh, P., Khan, S., Salieva, R., Ahmed, S., Navarrete, F.M., Khan, A.A., Leon, T.C., Verma, M.K. 2023. Differential diagnosis of bronchial obstructive syndrome; *Int. J. Clinical Skills*. 2023;17 (1): 031-040.
4. Maity S, Nauhria S, Nayak N, Nauhria S, Coffin T, Wray J, Haerianardakani S, Sah R, Spruce A, Jeong Y, Maj MC, **Sharma A**, Okpara N, Ike CJ, Nath R, Nelson J, Parwani AV. 2023. Virtual Versus Light Microscopy Usage among Students: A Systematic Review and Meta-Analytic Evidence in Medical Education. *Diagnostics*. 13(3):558.
5. Bhat MS et al. 2020. Role of Zinc in Mucosal Health and Disease: A Review of Physiological, Biochemical, and Molecular Processes. *Cureus*. 12(5):e8197.
6. Rao, M. V. Raghavendra, Chennamchetty, Vijay K, Mathai Dilip, Verma Mahendra Kumar, Leon Tiara Calvo, Igman Pamphil, Bhat Surekha, Nizami Mohammad Ismail, Agarwal Sanjay Kumar, Billa Lakshmi Hitesh, Khan Abrar A. The Portrayal of Microbes in Respiratory Medicine. *Mustansiriya Medical Journal* 19(2):p 66-72, Jul–Dec 2020. | DOI: 10.4103/MJ.MJ_24_20
7. Rao MVR, Khan AA, Apacible G, Apacible A. 2020. Salmonella Typhi Research Program to the Next Generation world. *Int J Recent Sci Res*. 11(07), pp. 39072-39076.
8. Rao MVR, Khan AA, Apacible G, Apacible A, Igman P, Bhat S (2020). Are the pulmonary macrophages acting as key players in pneumonia? *IJSR* 9(9): doi: <https://www.doi.org/10.36106/ijsr>
9. Rao MVR, Rajeswari MR, Chennamchetty VK, Mathai D, Khan AA, Bhat S, Navarrete FM, Leon TC, Apacible A, Verma MK. (2020). An indigenous substitute for peptone as the basic ingredient of culture media. *Advance research journal of multidisciplinary discoveries*. 50(1), 1–5. <http://doi.org/10.5281/zenodo.4015920>
10. Rao MVR, Khan AA, Kumar V, Apacible G, Apacible A, Igman P, Leon TC, Navarrete FM. 2020. Are the respiratory organs repository for viruses? *IJSRM* 16(3): 44-60
11. Rao MVR, Khan AA, Mathai D, Kumar CV, Junaidy KH, Leon TC, Igman P, Bhat S, Nizami MI, Verma MK (2020). Mind boggling lower airway fungal infections. *Global journal for research analysis* 9(9): DOI:10.36106/gjra
12. Rao MVR, Khan AA, Mathai D, Chennamchetty VK, Leon TC, Igman P, Bhat S, Agarwal SK (2020). Death and Grief of Viral Myocarditis and Exciting Portrayal of Viruses. *EC Microbiology* 16 (7): 32-46.
13. Rao MVR, Khan AA, Mathai D, Junaidy KH, Ramanaiah CJ, Khan AA. Sepsis– An Impedence That Needs a Global Solution Know Safety – No Infection *Indian Journal of Clinical Practice*, Vol. 30, No. 11, April 2020 (MCI, PubMed, ICMR)
14. Rao MVR, Khan AA, Mathai D, Khaleel M, Junaidy KH, Naik JK, Khan AA. Typhoid Fever – An Overview Good Hygiene is the Key to Prevent Typhoid Fever. *Indian Journal of Clinical Practice*, Vol. 31, No. 1, June 2020 (MCI, PubMed, ICMR).



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15. Rao MVR, Khan AA, Khaleel M, Junaidy KH, Hamza A, Verma MK, Ponnusamy K, Dorababu P, Mathai D. 2020. The mitochondrial sugar disease and molecular mechanism, IERJ ,6(3)
16. Rao MVR, Khan AA, Igman P, Bhat S, Leon TC (2020). Parasitic Disease of the Liver and Biliary Tree - Historical Background and Current Scenario. IJPPR 18(2): 500-16
17. Rao MVR, Mathai D, Leon TC, Khaleel M, Khan AA, Kumari BA, Verma MK. 2020. A reflection on HIV/AIDS research. IJCMR 6(4): 5084-5091
18. Rao MVR, Verma MK, Ponnusamy K, Rao S, Leon TC, Bhat S, Igman P, Mathai D (2020). The Hypercholesterolemia activity of common (Fagopyrum esculentum) buckwheat. Advance research journal of multidisciplinary discoveries 47(1): 17-24
19. Rao MVR, Khan AA, Igman P, Bhat S, Leon TC (2020). Translational medicine and biomarkers; bench to bedside- an overview. IERJ 6(5): 10-4
20. Rao MVR, Naik JK, Balaramiah S, Jayalaksmi G, Pallavi SP, Reddi R, Ponnusamy K, Khan AA. 2020. The Phenyl Ketouria (PKU) and Teratogenic Risks (Congenital Defects), Human Journals IJPPR Journal, 17(4)
21. Rao MVR, Khan AA, Mathai D, Verma MK, Kumari BA. 2020. Prevalence and risk factors for hospital-acquired infections "Clean Care is Safer Care." International Journal of Recent Scientific Research 11(4A), pp. 38021-38028
22. Rao MVR, Khan AA, Khaleel M, Junaidy KH, Hamza A, Verma MK, Ponnusamy K, Dorababu P, Mathai D. 2020. Breaking the silence about the biofilm, International education and research journal, 6(1)
23. Rao MVR, Khan AA, Khaleel M, Junaidy H, Hamza A, Verma MK, Dorababu P, Mathai D. 2020. The values and vision of artificial intelligence, International Journal of Current Advanced Research ISSN: No: 2319-6475, ISSN: P: 2319-6505, 9 (3B)
24. Verma MK, Rao MVR. "Mapping Immunity; Vertebrates Versus Invertebrates". Acta Scientific Biotechnology 1.8 (2020): 42-43.
25. Verma MK et al. Carbon Nanotubes: A review on risks assessment, mechanism of toxicity and future directives to prevent health implication, Bio-Cell; 2020. (Revision Submitted).
26. Verma MK, Rao MVR et al. In Silico approach for therapeutic profiling and physiochemical findings of Serratiopeptidase an anti-inflammatory enzyme. Research Journal of Biotechnology. April 2020 (Accepted for publication).
27. Verma, M.K et al. LRP-1 Mediated Endocytosis of EFE across the Blood–Brain Barrier; Protein– Protein Interaction and Molecular Dynamics Analysis. Int J Pept Res Ther (2020). <https://doi.org/10.1007/s10989-020-10065-z>
28. Verma MK et al. Genetic variation in Chemokines receptor 5 gene and course of HIV infection; Review on genetics and immunological aspect. Gene and Disease 2020, S2352-3042(20)30059-3
29. Verma MK. Challenges in the Management of Resistant Hypertension; Major Risk Factor for CVD". Acta Scientific Biotechnology 1.4 (2020): 01-02.



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A.2. PARTICIPATION AT CONFERENCES / WEBINARS/ CMEs/ WORKSHOPS

1. Apacible Abigail. "World-Wide Experience on COVID-19 in People Living with Diabetes," June 5, 2020 - Harvard Medical School
2. Apacible Abigail. "COVID-19 Contact Tracing" by Johns Hopkins University June 11, 2020
3. Bhat Malpe Surekha. Open Science and the reward system: how they can be aligned. Online webinar organized on July 2, 2020, by Researcher Connect, Bright Talk, Elsevier

B. MEDICAL EDUCATION

B.1. RESOURCE PERSON AT MEDICAL EDUCATION WORKSHOPS/ WEBINARS

External resource person

1. Bhat MS. "Integration ladder and curriculum navigator"- online webinar on July 3, 2020 for Faculty of Manipal Academy of Higher Education (MAHE) organized by Department of Biochemistry, Melaka Manipal Medical College (MMMC)

Internal resource person

1. Bhat MS. "Curriculum navigator"- Medical education online session for Faculty of AUSOMA on September 1, 2020
2. Bhat MS. "Standard setting"- Medical education online session for Faculty of AUSOMA on September 1, 2020
3. Bhat MS. "Item analysis"- Medical education online session for Faculty of AUSOMA on September 1, 2020
4. Bhat MS. "Outcome based education"- Medical education online session for Faculty of AUSOMA on September 1, 2020

B.2. PUBLICATIONS IN MEDICAL EDUCATION

1. Vashe A , Devi V , Pallath V , **Abraham RR** , Kamath A. Development and validation of Manipal Inventory for Curriculum Evaluation (MICE): A comprehensive tool for evaluation of hybrid medical curriculum. Bangladesh Journal of Medical Science, 22 (01): 47-56, 2023.
2. Asha Vashe, Vasudha Devi, Raghavendra Rao, **Reem R Abraham**. Establishing links between assessments and expected learning outcomes through curriculum mapping in a dental physiology curriculum. NMJI, 34, (1): 40-45, 2021.
3. Bhat M S et al (2020). A holistic approach to Henry Peach Robinson's 'Fading Away' for a medical humanities class. Research & Humanities in Medical Education, 7, 8-14.



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B.3. PARTICIPATION AT MEDICAL EDUCATION CMEs, WORKSHOPS, WEBINARS

1. Bhat MS. Covid-19: Assessment, professionalism and progression. Part 3 – New normal, new future in assessment- Medical education webinar organized by AMEE on 16 June 2020
2. Bhat MS. Covid-19: Assessment, professionalism and progression. Part 2 – Maintaining professionalism during on-line assessment - Medical education webinar organized by AMEE on 4 June 2020 (Accessed offline recorded webinar)
3. Bhat MS. Covid-19: Assessment, professionalism and progression. Part 1 – Best practice in online assessment - Medical education webinar organized by AMEE on 27 May 2020 (Accessed offline recorded webinar)
4. Bhat MS. FuturistForum 2020 -Adapting learning/CPD in a crisis: What is the implication of Covid-19 on professional educators?- Medical education webinar organized by AMEE on 5 May 2020
5. Bhat MS. Challenges and opportunities with online presenting and teaching: A question and answer webinar organized by AMEE on 17 April 2020
6. Bhat MS. COVID-19 Students' and teachers wellbeing journey: struggling, embracing, empowering- Medical education webinar organized by AMEE on 16 April 2020
7. Bhat MS. Adapting to the impact of COVID-19: Making the most of digital and online presenting and teaching- Medical education webinar organized by AMEE on 9 April 2020

C. SCHOLARLY ACTIVITIES

C.1. CERTIFICATION COURSES

1. Ahmed Shakeel. Certificate in Health Professions Education (CHPE). Baqai Medical University, Karachi August 2023
2. Ahmed Shakeel. BLS and ACLS by Heart and Stroke Foundation, Canada, Aug 2022
3. Navarrete Frank Michael. AHA-BLS and ACLS recertification workshop, Oct 2020.
4. Leon Tiara Calvo. AHA-BLS and ACLS recertification workshop, Oct 2020.
5. Apacible Abigail. "Writing in the sciences" from Stanford University on Coursera (Completed on May 8, 2020
<https://coursera.org/share/6504556ea411ed8da9932547086ba5ef>)



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C.2. CME CREDIT COURSES

1. Ahmed Shakeel Diabetes, The Urgent Chronic Conditions. AstraZeneca . The Caribbean College of Family Physicians May 2023
2. Ahmed Shakeel. Covid-19 & its Sequelae- Arthritis Management. CME Accredited Caribbean Arthritis Foundation & ReumaZorg Nederland Oct 2022.
3. Ahmed Shakeel. Disaster Management - Masterclass ACCME Accredited. The Aga Khan University, Karachi September 2022.
4. Shakeel Ahmed. Clinical Simulation Educators Program, ACCME Accredited. The Aga Khan University, Karachi July 2022
5. Navarrete Frank Michael and Leon Tiara Calvo.. Longitudinal Management of Chronic Rhinosinusitis With Nasal Polyps, Dec 2020
6. Navarrete Frank Michael and Leon Tiara Calvo.. COVID-19: Strategies in Caring for Critically Ill Patients. Dec 2020, 1.0 AMA PRA Credit
7. Navarrete Frank Michael and Leon Tiara Calvo. The ADHD Care Transition from Adolescence to Adulthood: Tips for Lifelong Management, Aug 2020, 0.50 AMA PRA Credit
8. Navarrete Frank Michael and Leon Tiara Calvo.. Managing Comorbidities in ADHD: A focus on the Future. Aug 2020, 0.50 AMA PRA Credit
9. Navarrete Frank Michael and Leon Tiara Calvo.. Myth-Busting the use of NSAIDS in the Era of COVID-19. Aug 2020, 0.50 AMA PRA Credit
10. Navarrete Frank Michael and Leon Tiara Calvo.. Multiple Sclerosis Updates from the 2020 Annual Meeting. Aug 2020, 0.75 AMA PRA Credit
11. Navarrete Frank Michael and Leon Tiara Calvo.. Clinical and Real-life Perspectives in MS: Evidence Based Decision Making, Aug 2020, 0.25 AMA PRA Credit
12. Navarrete Frank Michael and Leon Tiara Calvo.. Updates in Chronic Inflammatory Demyelinating Polyneuropathy From the Peripheral Nerve Meeting, Aug 2020, 0.50 AMA PRA Credit
13. Navarrete Frank Michael and Leon Tiara Calvo.. Does a Low-Fat Diet Equal Low Mortality? March 2020

C.3. MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

1. Apacible Abigail. Member, Philippine Dental Association
2. Bhat MS. Member of Association of Medical Educationists of Europe (AMEE)
3. Bhat MS. Regular member of American Society of Biochemistry and Molecular Biology
4. Navarrete FM. Member of Association Colegio de Medicos y Cirujanos of Costa Rica, MED7630
5. Ahmed Shakeel. Member, College of Physicians and Surgeons, Pakistan
6. Ahmed Shakeel. Member, Pakistan Pediatric Society, Pakistan
7. Ahmed Shakeel. Member, Association of International Physicians & Surgeons, Ontario

C.3. EDITORIAL BOARD

1. Khan Salman. Acta Scientific Microbiology, India.
2. Leon Tiara Calvo. Standard operating procedure manual for Covid-19