

Dr. ABDUL ARIF KHAN PhD, MNASc, MRSC (UK), MBSAC (UK), FRSPH (UK)



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Dr. Arif Khan is a Scientist E (Deputy Director Grade) at the ICMR-National Institute of Translational Virology and AIDS Research (ICMR-NITVAR), Pune, India and an Associate Professor at the Academy of Scientific and Innovative Research, India. Previously, he served as an Associate Professor of Microbiology at King Saud University, KSA. His administrative roles includes leading the Microbiology Division at ICMR-NITVAR (2022 to present), In-charge, BSL-3 Laboratory at ICMR-NITVAR (2022 to date), Coordinator for ICMR-NITVAR in the ICMR-NIV MSc Virology program (2020 to present), Warden, ICMR-NITVAR Hostel (2022 to date), and Nodal Officer for ICMR-NITVAR BSL-3 Laboratory construction under the PM-ABHIM and World Bank Project (2023 to date), Incharge- activities under National Family Health Survey (NFHS) at ICMR-NITVAR (2023 to date). He has over 21 years of research experience, including 17 years in teaching. He has recognized with several prestigious awards and fellowships, such as **Fellow of The Royal Society for Public Health (UK), Young Scientist Grant Award from FEMS, Netherlands, AIMS Award from Atomwise Inc, (USA), Ramanujan Fellowship..** He has published 3 books (Springer, CRCPress, and Elsevier) and over 75 articles including journal articles and book chapters (publications in journals with individual article impact factor up to 51.769, cumulative impact factor ~341.21, Clarivate Analytics 2022). Several journal articles under consideration. He is working as an **expert reviewer** in international funding bodies like, **National Science Centre, Poland**, South African Medical Research Council (**SA-MRC**), Cape Town, **Research Grant Council, Hong Kong**, King Abdulaziz City for Science and Technology (**KACST**), **Saudi Arabia**, Indian Council of Medical Research (**ICMR**), **India** serves as an editor for several respected journals, including Scientific Reports, Nature Publishing Group.

WORKHISTORY

Academic Positions

ASSOCIATE PROFESSOR, FACULTY OF BIOLOGICAL SCIENCES, ACADEMY OF SCIENTIFIC AND INDUSTRIAL RESEARCH (AcSIR), Ministry of Human Resource Development, India

2024-to date

SCIENTIST E (DEPUTY DIRECTOR GRADE), ICMR-NATIONAL AIDS RESEARCH INSTITUTE, INDIA

2023–todate

SCIENTIST D (ASST. DIRECTOR Grade), ICMR-NATIONAL AIDS RESEARCH INSTITUTE, INDIA

2019–2023

ASSOCIATE PROFESSOR, COLLEGE OF PHARMACY, KING SAUD UNIVERSITY, SAUDI ARABIA

2017–2019

ASSISTANT PROFESSOR, COLLEGE OF PHARMACY, KING SAUD UNIVERSITY, SAUDI ARABIA

2010–2017

FACULTY ASSOCIATE, SCHOOL OF BIOTECHNOLOGY, GAUTAM BUDDHA UNIVERSITY, INDIA

2009–2010

ASSISTANT PROFESSOR, COLLEGE OF LIFE SCIENCES, CANCER HOSPITAL & RESEARCH INSTITUTE, GWALIOR, INDIA

2005–2009

TEACHING FACULTY, GOVT. AUTONOMOUS K.R.G. COLLEGE, GWALIOR, INDIA

2003–2005

<p>WORKHISTORY <i>Administrative Roles</i></p>	<p>HEAD, MICROBIOLOGY DIVISION, ICMR-NATIONAL AIDS RESEARCH INSTITUTE, INDIA 2022–todate</p> <p>INCHARGE, BSL3 LABORATORY, ICMR-NATIONAL AIDS RESEARCH INSTITUTE, PUNE 2022–todate</p> <p>WARDEN, STUDENT HOSTEL, ICMR-NATIONAL AIDS RESEARCH INSTITUTE, PUNE 2022–todate</p> <p>COORDINATOR- NATIONAL INSTITUTE OF VIROLOGY, INDIA MSC (VIROLOGY) PROGRAM 2020–todate</p> <p>NODAL OFFICER- NATIONAL OUTBREAK RESPONSE NETWORK, ICMR, INDIA 2022–todate</p> <p>NODAL OFFICER- ICMR-NARI UNIVERSALLY ACCESSIBLE CAMPUS, “ACCESSIBLE INDIA CAMPAIGN” GOVT. OF INDIA 2020–todate</p> <p>NODAL OFFICER- BSL3 CONSTRICTION AT ICMR-NARI UNDER PM-ABHIM AND WORLD BANK 2023–todate</p> <p>NODAL OFFICER- NATIONAL FAMILY HEALTH SURVEY (NFHS) ACTIVITIES AT ICMR-NARI 2023–todate</p>
<p>WORK HISTORY <i>Consultation and Expert Roles</i></p>	<ul style="list-style-type: none"> • Consultant, Innoscience Research Sdn. Subang Jaya, Selangor, Malaysia (2017-2019) • Research Grant Evaluator (External Expert), The National Science Centre, Poland • Research Grant Evaluator (External Expert), South African Medical Research Council (SA-MRC), Cape Town, South Africa • Research Grant Evaluator (External Expert), Research Grants Council (RGC) of Hong Kong • Research Grant Evaluator (External Expert), King Abdulaziz City for Science and Technology (KACST) Riyadh, Saudi Arabia • Research Grant Evaluator (External Expert), Al-Imam Mohammad Ibn Saud Islamic University (IMSIU) Riyadh, Saudi Arabia • Grant Reviewer, Indian Council of Medical Research (ICMR), New Delhi, India
<p>EDUCATION (Degree)</p>	<ul style="list-style-type: none"> • Ph.D. (Doctor of Philosophy) Microbiology, Cancer Hospital & Research Institute, Jiwaji University, Gwalior, INDIA (2005-2008) Result: Research work was supported through my research project as PI, successfully defended thesis and degree awarded Title of thesis: Study of dental caries associated bacteria with special reference to <i>Streptococcus mutans</i> • M.Sc. (Master of Science) Applied Microbiology, College of Life Sciences, Cancer Hospital & Research Institute, Jiwaji University, Gwalior, INDIA (2000-2002) Result: 1st Division with securing position among top three students in university merit list • B.Sc. (Bachelor of Science) Biology, Government Autonomous Model Science College, Jiwaji University, Gwalior, INDIA (1997-2000) Result: 1st Division
<p>NON CREDIT COURSES (ACADEMIC)</p>	<ul style="list-style-type: none"> • Short Course on Translational Virology organized at Johns Hopkins Bloomberg School of Public Health and National Institute of Health, USA by Global Virus Network from July 15th-26th 2024 • Completed International course on Bioinformatics and comparative genome analysis organized by Institute of Pasteur Paris, European Molecular biology organization (UK), CNRS (France), Institute of Pasteur Tunis from 18-03-2007 to 07-04-2007 followed by a general conference on the same topic (Selected among 20 candidates globally and only two from Asia) for the course)

CERTIFICATIONS and TRAININGS (ACADEMIC)	<ul style="list-style-type: none"> • ICH GOOD CLINICAL PRACTICE E6 (R2) with score 100% (The Global Health Network) • Introduction to GCLP with score 90% (The Global Health Network) • Industrial training on “Basics to Advanced data analysis for Bioinformatics, Genomics, Proteomics, and NGS datasets” organized by Nextgenhelper, India from 23 Jan 2021-30 Jan 2021.
CERTIFICATIONS and TRAININGS (ADMINISTRATIVE)	<p>Online certificate on Code of Conduct for Government Employee by iGotKarmyogi of Government of India (March 2023)</p> <p>Online certificate on Prevention of Sexual harassment (POSH) by iGotKarmyogi of Government of India (March 2023)</p> <p>A common coordination meeting to finalize the technicalities of tendering for establishment of regional NIV's at Bangalore, Dibrugarh, Jabalpur and National Institute for One Health, at Nagpur by ICMR-NIV (Jan 2023)</p> <p>Orientation program for BSL-3 laboratory organized by ICMR at ICMR-National Institute of Virology (Dec 2022)</p> <p>Science Communication for Scientists by Capacity Building Commission (CBC) of ICMR (Oct 2023)</p>
CLINICAL ACTIVITIES AND NATIONAL PROGRAMS	<p>National Tuberculosis Elimination Program (NTEP) - Supporting M. tuberculosis laboratory investigations of patients including AFB staining, Gene-expert, MGIT</p> <p>National Family Health Survey (NFHS) – Coordinating HBSAg and HCV detection on nationwide samples under NFHS activity.</p> <p>National AIDS Control Organization (NACO) – Supporting microbiological Investigations of patients attending ICMR-NARI ART centers and under research projects funded through different agencies.</p> <p>National Accreditation Board for Testing and Calibration Laboratories (NABL) – Coordinating activities for NABL accreditation as ISO15189: 2012 standards for diagnostic test conducted in Microbiology Division, ICMR-NARI including SOP review, approval, NABL audit, and external quality assurance related activities (EQAS) etc.</p>
PATENTS AND TECHNOLOGIES	<p>PATENT</p> <p>Jadaun P, Harshithkumar R, Dass D, Banerjee A, Wakchaure P, Khan AA, Nema V, Mukherjee A. A PHARMACEUTICAL COMPOSITION FOR THE TREATMENT OF HIV AND HSV INFECTION. Patent Application No. 202311055226, dt. Aug 17, 2023. (Used Computational modeling to optimize combinations for inhibition of viral infection)</p> <p>TOOLS DEVELOPED</p> <p>NSCLCPred (Click here) - AI-based tool for prediction of non-small cell lung cancer</p> <p>BMI Calculator (Click here) - My first tool with the help of LLM (Though basic but useful)</p> <p>NucleoInfo V1.0 (Click here) - Calculates basic information about any given nucleotide</p> <p>DATABASES DEVELOPED</p> <p>AlgaeScan (Click Here) - A database of bioactive compounds/chemicals obtained from algae</p> <p>HerpesWeb (Click here) - A database of information related to herpes virus and its infection</p>

AWARDS, HONOURS AND DISTINCTIONS

- Selected as **Editorial Board Member in Nature Publishing Group** Journal Scientific Reports to manage and take decision on manuscript published in this Nature group Journal (2024)
- Consecutively selected for Nomination of Universal Scientific Education and Research Network (**USERN**) **Prize** 2022 and 2023, due to publication(s) as first author in top rank (Q1) journals in last two years.
- **Elected Member** of Prestigious **British Society for Antimicrobial Chemotherapy, London (MBSAC, London, UK)** (Membership No. 102849) (2021)
- **Elected Member** of Prestigious **The Royal Society of Chemistry, London (MRSC, London, UK)** (Membership No. 699867) (2021)
- **Elected Fellow** of Prestigious **The Royal Society for Public Health, London (FRSPH, London, UK)** (Membership No. 126876) (2020)
- **Artificial Intelligence Molecular Screen (AIMS) Award** from Atomwise Inc. USA (2019)
- **Elected Member** of the **National Academy of Sciences (MNASc, India)** through NASI council, India (2019)
- Received **Ramanujan Fellowship** by the Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India (Year 2019).
- Received "**Certificate for Outstanding Research Achievement**" through Deanship of Scientific Research, King Saud University, Riyadh KSA (Year 2019)
- Received "**The 2017 Albert Nelson Marquis Lifetime Achievement Award**" through Marquis Who's Who, USA
- Received **Top 100 Scientists-2013** award by International Biographical Centre, Cambridge, England
- Received **Young Scientist Meeting Grant Award** from **Federation of European Microbiological Societies (FEMS), Netherlands**, for year 2007
- Received **Young Scientist Award** for Best Presentation in MP Science Congress, **Indian Science Congress Association, Bhopal Chapter** for the year 2004 (Sponsored by Asian Journal of experimental sciences)
- Selected in **Graduate Aptitude Test in Engineering (GATE) 2005** examination with 95.62 percentile (**All India Rank 286**) organized by IIT, Bombay
- Secured position among top three students in the **merit list of Jiwaji University MSc (Applied Microbiology) 2002** examination

PUBLICATIONS

BOOKS (INTERNATIONAL)

1. M.T. Ashraf, **Abdul Arif Khan**, F. Aldakheel (Ed) *Systems Biology Approaches for Host-pathogen Interactions Analyses*, **Elsevier** (In Press)
2. **Abdul Arif Khan** (Ed.) *Bacteria and Cancer*, **Springer Science Publisher, Netherlands** (2012) (ISBN 978-94-007-2584-3) (**Reviewed in *Oncology News* by Dr. Karin Baria, Consultant Clinical Oncologist, Lincoln County Hospital, UK**)
3. Sudhir Kumar Jain, **Abdul Arif Khan** and M. K. Rai (Ed.) *Geomicrobiology*, **Science Publisher, Taylors and Francis, CRC Press, USA** (2010) (ISBN 978-1-57808-665-8)

PUBLICATIONS [*First and/or corresponding author Publications (Cumulative impact factor ~346.21, Clarivate Analytics 2022)]

EDITED JOURNAL ISSUES

1. Edited research topic on **“Host-pathogen interactions interplay and cancer: understanding mechanisms and beyond” (2022)** (Frontiers in Oncology) (Impact factor 5.738). (Link: <https://tinyurl.com/2awx9y3z>)
2. Editing research topic on **“Microbiome in the Growth and Management of Different Types of Cancer” (2023)** (Frontiers in Molecular Biosciences) (Impact factor 6.113). (Link: <https://tinyurl.com/3sn3yawa>)
3. Editing special issue on **“Advances and Challenges in Understanding Microbial Pathogenesis through Systems Biology and Artificial Intelligence” (2023)** (Diagnostics) (Impact factor 3.992) (Link: https://www.mdpi.com/journal/diagnostics/special_issues/Z1J466LEWX).

JOURNAL ARTICLES

1. Khan A.A., Wakchoure P., Farooq F., Shiddiky M.J.A., Jain S.K. (2024) Host-pathogen interaction databases: tools for rapid understanding of molecular microbial pathogenesis. WIRE: Mech of Diseases (In Press)
2. Vidhate P, Wakchoure P, Borole S, **Khan AA***. *Lactobacillus* as probiotics: opportunities and challenges for potential benefits in female reproductive health. Am J Transl Res. 2024 Mar 15;16(3):720-729. doi: 10.62347/IGWR5474. PMID: 38586104; PMCID: PMC10994795 [Impact factor 2.2] **(Corresponding author)**
3. Banerjee A., Dass D., Dhotre K., Wakchoure P., More A., Rana S., **Khan A.A.***, Mukherjee A. (2023) Combinatorial Effects of miRNAs in HSV-2 Infection of Macrophages: An In Silico and In Vitro Integration Approach. Vaccines, 11, 1488. (<https://doi.org/10.3390/vaccines11091488>) [Impact factor 7.8] **(Co-corresponding author)**
4. **Khan AA**, Büsselberg D, de Oliveira GLV and Khan S (2023) Editorial: Microbiome in the growth and management of different types of cancer. Front. Mol. Biosci. 10:1249301. doi: 10.3389/fmolb.2023.1249301 [Impact factor 5] **(First author)**
5. ***Khan A.A. & Ahmad E.** (2023) Editorial: Host-Pathogen Interactions Interplay and Cancer: Understanding Mechanisms and Beyond. Frontiers in Oncology (Accepted) [Impact factor 5.738] **(First & Corresponding author)**
6. Wakchoure P., Momin K., ***Khan A.A.** (2023) Pathogenesis of Human Immunodeficiency Virus and *Mycobacterium tuberculosis* infection as revealed by transcriptome and interactome data. OMICS: A Journal of Integrative Biology (<https://doi.org/10.1089/omi.2022.0130>) [Impact factor 3.978] **(Corresponding author)**
7. ***Khan A.A.**, Nema V., Ashraf T. (2023) Host-microbiota interactions and Oncogenesis: crosstalk and its implications in etiology. Microbial Pathogenesis (<https://doi.org/10.1016/j.micpath.2023.106063>) [Impact factor 3.848] **(First & Corresponding author)**
8. ***Khan A.A.**, Jain S.K., Rai M., Panda S. (2022) Exploring SARS-CoV2 host-pathogen interactions and associated fungal infections cross-talk: screening of targets and understanding pathogenesis. Comp Struct Biotech J (<https://doi.org/10.1016/j.csbj.2022.08.013>) [Impact factor 6.155] **(First & Corresponding author)**
9. ***Khan A.A.**, Ashraf M.T., Aldakheel F.M., Yazgan A.S., Zaidi R. (2022) Deciphering the involvement of iron targets in colorectal cancer: A network biology approach. Am J Trans Res 14(1):440-451 [Impact factor 3.940] **(First & Corresponding author)**
10. ***Khan A.A.**, Khan Z. (2021) Comparative host-pathogen protein-protein interactions

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analysis of recent coronavirus outbreaks and important host targets identification. Briefings in Bioinformatics (<https://doi.org/10.1093/bib/bbaa207>) (**Impact factor 13.994**) (**First & Corresponding author**)

11. ***Khan A.A., Khan Z. (2021) Bacterial Nucleomodulins and Cancer: An unresolved enigma** (<https://doi.org/10.1016/j.tranon.2020.100922>) Trans Oncol (**Impact factor 4.803**) (**First & Corresponding author**)
12. ***Khan A.A. (2021) Exploring polyps to colon carcinoma voyage: can blocking the crossroad halt the sequence?** (doi: 10.1007/s00432-021-03685-5) J Cancer Res Clin Oncol (**Impact factor 4.322**) (**Sole author**)
13. ***Khan A.A., Bano Y. (2021) Salmonella enterica subsp. enterica host-pathogen interactions and their implications in gallbladder cancer. Microbial Pathogenesis** (<https://doi.org/10.1016/j.micpath.2021.105011>) (**Impact factor 3.848**) (**First & Corresponding author**)
14. ***Khan A.A., Sirsat A.T., Singh H., Cash P. (2021) Microbiota and cancer: current understanding and mechanistic implications. Clin Trans Oncol** (doi: 10.1007/s12094-021-02690-x) [**Impact factor 3.340**] (**First & Corresponding author**)
15. ***Khan A.A., Farooq F., Jain S.K., Golinska P., Rai M. (2021) Comparative host-pathogen interaction analyses of SARS-CoV2 and Aspergillus fumigatus, and pathogenesis of COVID-19 associated aspergillosis. Microbial Ecology** (<https://doi.org/10.1007/s00248-021-01913-6>) [**Impact factor 4.192**] (**First & Corresponding author**)
16. ***Khan A.A., Singh H., Bilal M., Ashraf M.T. (2021) Microbiota, probiotics and respiratory infections: the three musketeers can tip off potential management of COVID-19. Am J Transl Res** (<http://www.ajtr.org/files/ajtr0136096.pdf>) [**Impact factor 3.940**] (**First & Corresponding author**)
17. ***Khan A.A., Khan Z. (2020) COVID-2019 associated over-expressed Prevotella proteins mediated host-pathogen interactions and their role in coronavirus outbreak. Bioinformatics** (doi: 10.1093/bioinformatics/btaa285) (**Impact factor 6.931**) (**First & Corresponding author**)
18. ***Khan A.A., Abuderman A.A., Ashraf M.T., Khan Z. (2020) Protein-protein interactions of Human papilloma virus-Chlamydia trachomatis-Human and their potential in cervical cancer. Future Microbiology** (doi: <https://doi.org/10.2217/fmb-2019-0242>) (**Impact factor 3.553**) (**First & Corresponding author**)
19. ***Khan A.A., Nema V., Khan Z. (2020) Current status of probiotics for prevention and management of gastrointestinal cancers** (<https://doi.org/10.1080/14712598.2021.1828858>) Exp Opin Biol Ther (**Impact factor 5.589**) (**First & Corresponding author**)
20. ***Khan A.A. and Khan Z. (2020) System biological investigations of Hydroxychloroquine and Azithromycin targets and their implications in QT interval prolongation** (<https://doi.org/10.1016/j.cbi.2020.109299>) Chem Biol Interaction (**Impact factor 5.168**) (**First & Corresponding author**)
21. ***Khan A.A., Khan Z., Malik A., Kalam M.A., Cash P. Alshamsan A. (2017) Colorectal cancer-inflammatory bowel disease nexus and felony of Escherichia coli. Life Sci** (doi: <https://doi.org/10.1016/j.lfs.2017.05.016>) (**Impact factor: 6.780**) (**First & Corresponding author**)
22. ***Khan A.A., Khan Z., Kalam M.A., Khan A.A. (2016) Inter-kingdom prediction certainty evaluation of protein subcellular localization tools: microbial pathogenesis approach for deciphering host microbe interaction. Briefings in Bioinformatics** (doi: 10.1093/bib/bbw093) (**Impact factor 13.994**) (**First & Corresponding author**)

23. ***Khan A.A.**, Khan Z., Warnakulasuriya S. (2016) Cancer-associated toll-like receptor modulation and insinuation in infection susceptibility: association or coincidence? *Ann Oncol* (doi: 10.1093/annonc/mdw053) (**Impact factor 51.769**) (**First & Corresponding author**).
24. ¶Shrivastava A., ***¶Khan A.A.**, Khurshid M., Kalam M., Jain S.K., Singhal P.K. (2016) Recent developments in the field of L-asparaginase discovery: a potential anticancer agent [¶Equal Contribution] *Critical Reviews in Oncology/Hematology* (¶Both are first author) (doi:10.1016/j.critrevonc.2015.01.002) (**Impact factor 6.625**) (**First & Corresponding author**) (**Top cited journal article**)
25. Khan, Z.*, **Khan A.A.***, Yadav H., Prasad, G.B.K.S., Bisen P.S. (2017) Survivin, a molecular target for therapeutic interventions in squamous cell carcinoma. *Cell Mol Biol Lett* 22: 8. (doi:10.1186/s11658-017-0038-0) (**Impact factor 8.702**) (**Co-first author**)
26. ***Khan A.A.**, Khan Z., Malik A., Khan S., Shrivastava A., Jain S.K., Alshamsan A. (2015) Computational prediction of E. coli proteins host subcellular targeting and their implications in colorectal cancer etiology. *Cancer Letters* (doi: http://dx.doi.org/10.1016/j.canlet.2015.04.024) (**Impact factor 9.756**) (**First & Corresponding author**).
27. ***Khan A.A.** (2014) In silico prediction of E. coli proteins targeting the host cell nucleus, with special reference to their role in colon cancer etiology. *J Comp Biol* (DOI:10.1089/cmb.2014.0001) (**Impact factor 1.549**) (**Sole author**).
28. ***Khan A.A.**, Cash P. (2013) E. coli and colon cancer: Is mutY a culprit? *Cancer Letters* 341(2): 127-131 (**Impact factor 9.756**) (**First & Corresponding author**)
29. ***Khan A.A.**, Khurshid M., Khan S., Alshamsan A. (2013) Gut microbiota and probiotics: Current status and their role in cancer therapeutics. *Drug Dev. Res.* (DOI 10.1002/ddr.21087) (**Impact factor 5.004**) [**Invited article as subject expert**] (**First & Corresponding author**)
30. **Khan A.A.**, Khurshid M., Tawfik A.F. (2013) In vitro evaluation of vincristine and fluconazole combination against *Candida* spp. *Pak J Pharm Sci* 26(5): 1037-1040 (**Impact factor 0.863**)
31. ***Khan A.A.**, Shrivastava A., Khurshid M. (2012) Normal to cancer microbiome transformation and its implication in cancer diagnosis. *BBA Rev. Cancer* 1826(2): 331-337 (**Impact factor 11.414**) (**First & Corresponding author**)
32. ***Khan A.A.** and Shrivastava A. (2010) Bacterial infection associated with cancer: Possible implication in etiology with special reference to lateral gene transfer. *Cancer Metastasis Rev.* 29(2): 331-337 (**Impact factor 9.237**) (**First & Corresponding author**)
33. ***Khan A.A.** (2010). Intracellular mechanism of Apoptosis. *J. Biol. Sci.* 10(4):291-305
34. ***Khan A.A.**, Jain S.K., Shrivastav A. (2008) Prevalence of dental caries among the population of Gwalior (India) in relation of different associated factors, *Eur. J. Dent.* 2: 81-85 (**First & Corresponding author**)

AS CO-AUTHOR

35. Namdev G., Choudhari R., **Khan A.A.**, Shyamveer, Singh H.O. (2023) Impact of inflammatory cytokine and adipokine gene variations in development of HIV-associated Lipodystrophy. *J Gene Med.* (Accepted) (**Impact factor: 4.152**)
36. Shyamveer, , **Khan A.A.**, Singh, HO (2023). Effect of genetic variations in drug transporters, metabolizing enzyme and regulatory genes to the development of HIV-associated lipodystrophy. *J Gene Med* ;e3493 <https://doi.org/10.1002/jgm.3493> (**Impact factor: 4.152**)
37. Ahmed F., **Khan A.A.**, Ansari H.R., Haque A. A (2022). Systems Biology and LASSO-Based Approach to Decipher the Transcriptome–Interactome Signature for Predicting Non-Small

Cell Lung Cancer. Biology, 11, 1752. <https://doi.org/10.3390/biology11121752> (**Impact factor: 5.168**)

38. Shibata T., Cao D.-Y., Dar T.B., Ahmed F., Bhat S.A., Veiras L.C., Bernstein E.A., **Khan A.A.**, Chaum M., Shiao S.L., Tourtellotte W.G., Giani J.F., Bernstein K.E., Cui X., Vail E., Khan Z. (2022) miR766-3p and miR124-3p Dictate Drug Resistance and Clinical Out-come in HNSCC. Cancers 14, x. <https://doi.org/10.3390/xxxxx> (**Impact factor 6.575**)
39. Yang X., Siddiqui A., **Khan A.A.**, Wang Q., Malik A., Jan A.T., Rudyani H.A., Chaudhary A.A., Khan S. (2021) Chlamydia trachomatis infection: Their potential implications in the etiology of cervical cancer. J Cancer (doi:10.7150/jca.58582) (**Impact factor 4.478**)
40. Singh H., Jadhav S., **Khan A.A.**, Agrawal S.K., Choudhari R., Verma S., Agrawal S., Gupta V., Singh A., Nain S., Maan H.S. (2021) APOBEC3, TRIM5 α , and BST2 polymorphisms in healthy individuals of various populations with special references to its impact on HIV transmission, Microbial Path (<https://doi.org/10.1016/j.micpath.2021.105326>) (**Impact factor 3.848**).
41. Singh H., Choudhari R., **Khan A.A.** (2021) Immune mediating molecules and pathogenesis of COVID-19-associated neurological disease. Microbial Path. (doi: 10.1016/j.micpath.2021.105023) (**Impact factor 3.848**)
42. Singh H., Choudhari R., Nema V., **Khan A.A.** (2020) ACE2 and TMPRSS2 polymorphisms in various diseases with special reference to its impact on COVID-19 disease. Microbial Path. (DOI: <https://doi.org/10.1016/j.micpath.2020.104621>) (**Impact factor 3.848**)
43. Bagheri A.R., Aramesh N., **Khan A.A.**, Gul I., Ghotekar S., Bilal M. (2020) Molecularly imprinted polymers-based adsorption and photocatalytic approaches for mitigation of environmentally-hazardous pollutants -a review. J Env Chem Eng DOI: <https://doi.org/10.1016/j.jece.2020.104879> (**Impact factor 7.968**) (Article ID 104879)
44. Afzal M., Mazhar S.F., Sana S., Naeem M., Rasool M.H., Saqalein M., Nisar M.A., Rasool M., Bilal M., **Khan A.A.**, Khurshid M. (2020) Neurological and cognitive significance of probiotics: a holy grail deciding individual personality. Future Microbiol. DOI: <https://doi.org/10.2217/fmb-2019-0143> (**Impact factor 3.553**)
45. Munir S., Shah A.A., Rahman H., Bilal M., Rajoka M.S.R., **Khan A.A.**, Khurshid M. (2020) Nanozymes for medical biotechnology and its potential applications in biosensing and nanotherapeutics. Biotechnol Lett DOI: <https://doi.org/10.1007/s10529-020-02795-3> (**Impact factor: 2.716**)
46. Bhat M.A., Al-Omar M.A., Naglah A.M., **Khan A.A.** (2019) Enaminone derived pyrazoles with antimicrobial activity. Journal of Chemistry Article ID 2467970, DOI: <https://doi.org/10.1155/2019/2467970> (**Impact factor: 3.241**)
47. Alhowyan A.A., Altamimi M.A., Kalam M.A., **Khan A.A.**, Badran M., Binkhathlan Z., Alkholief M., Alshamsan A. (2019) Antifungal efficacy of Itraconazole loaded PLGA-nanoparticles stabilized by Vitamin-E TPGS: In vitro and ex vivo studies. J Microbiol Methods. pii: S0167-7012(18)30984-9. doi: 10.1016/j.mimet.2019.01.020. (**Impact factor: 2.622**)
48. Kalam M.A., **Khan A.A.**, Alshamsan A., Haque A., Shakeel F. (2018) Solubility of a poorly soluble immunosuppressant in different pure solvents: Measurement, correlation, thermodynamics and molecular interactions. J Mol Liquids (DOI: 10.1016/j.molliq.2017.11.028) (**Impact factor 6.633**)
49. Kalam M.A., **Khan A.A.**, Alshamsan A. (2017) Biodegradable polymeric nanoparticles and vesicular carriers for vaccine delivery via non-invasive routes of administration: A review. Am J Transl Res, 9(1):15-35 (**Impact factor 3.940**)
50. Bhat M.A., Khan A.A., Al-Omar M.A., **Khan A.A.** (2017) Synthesis and anti-Candidal activity of some new pyrazoline derivatives. Biomed Res 28 (7): 3082-3087
51. Khan A.A., Jabeen M., Alanazi A., **Khan A.A.** (2016) Antifungal efficacy of amphotericin B

Dr Abdul Arif Khan PhD

encapsulated fibrin microsphere for treating *Cryptococcus neoformans* infection in Swiss albino mice. *Brazilian J Infec Dis* (doi: 10.1016/j.bjid.2016.04.006) (**Impact factor 3.257**)

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53. Khan S., Imran A., **Khan A.A.**, Kalam M.A., Alshamsan A. (2016) Systems biology approaches for the prediction of possible role of *Chlamydia pneumoniae* proteins in the etiology of lung cancer. *PLOS One* (doi: 10.1371/journal.pone.0148530) (**Impact factor 3.752**)
54. Kalam M.A., **Khan A.A.**, Khan S., AlMalik A., Alshamsan A. (2016) Optimizing Indomethacin-loaded Chitosan nanoparticle size, encapsulation, and release using Box-Behnken experimental design. *Int J biol macromol* 87:329-340 (**Impact factor 8.025**).
55. Khan S., Ansari A.A., **Khan A.A.**, Ahmad R. (2016) In vitro evaluation of anticancer and biological activities of synthesized Manganese oxide nanoparticles. *Med Chem Comm* (doi: 10.1039/C6MD00219F) (**Impact factor 5.121**)
56. Khan S., Ansari A.A., **Khan A.A.**, Al-Kattan W., Al-Obaid O., Ahmad R. (2016) Design, synthesis and in-vitro evaluation of anticancer and antibacterial potential of surface modified Tb(OH)₃@SiO₂ core-shell nanoparticles. *RSC Advances* 6: 18667-18677 (**Impact factor 4.036**).
57. Bhat M.A., **Khan A.A.**, Ghabbour H.A., Quah C.K., Fun H.K. (2016) Synthesis, characterization, X-ray structure and antimicrobial activity of N-(4-Chlorophenyl)-2-(pyridin-4-ylcarbonyl) hydrazinecarbothioamide. *Trop J Pharm Res* 15 (8): 1751-1757 (**Impact factor 0.523**)
58. Khan Z., **Khan A.A.**, Prasad G.B.K.S., Khan N., Tiwari R.P., Bisen P.K. (2016) Growth inhibition and chemo-radiosensitization of head and neck squamous cell carcinoma (HNSCC) by Survivin-siRNA Lentivirus. *Radiotherapy and Oncology* 118(2):359-68 (**Impact factor 6.901**).
59. Khurshid M., Akbar R., Nisar M.A., Rahman H., Aslam B., **Khan A.A.**, Rasool M.H. (2015) Bacterial munch for infants: potential pediatric therapeutic interventions of probiotics. *Future Microbiology* 10(11):1881-95. (**Impact factor 3.553**)
60. Khan S., Ansari A.A., **Khan A.A.**, Ahmad R., Al-Obaid O., Al-Kattan W. (2015) In vitro evaluation of anticancer and antibacterial activities of cobalt oxide nanoparticles. *J Biol Inorg Chem*. 20(8):1319-26. (doi: 10.1007/s00775-015-1310-2) (**Impact factor 3.862**)
61. Muhammad S., Khurshid M., Saleem H.G., **Khan A.A.** (2015) Characteristic and antibiotic resistance of urinary tract pathogens in Punjab. *Jundishapur J Microbiol* 8(7): e19272. (doi: 10.5812/jjm.19272v2) (**Impact factor 0.820**)
62. Bhat M., **Khan A.A.**, Khan S., Abdl Aziz H.A., Alanazi A.M., Al-Omar M.A. (2014) Synthesis of new [1,2,4]triazolo[3,4-b][1,3,4]thiadiazines and study of their anti-Candidal and cytotoxic activities. *J Chem*, Article ID 897141 (**Impact factor 3.241**)
63. Bhat M., **Khan A.A.**, Khan S., Al-Omar M.A., Parvez M.K., Al Dosari M.S. (2014) Synthesis and anti-Candida activity of N- (4-aryl/cyclohexyl) -2-(pyridine-4-yl carbonyl) hydrazinecarbothioamide. *Bioorg Med Chem Letters* (DOI:10.1016/j.bmcl.2014.01.060) (**Impact factor 2.940**)
64. Farooq F., Rai M., Tiwari A., **Khan A.A.**, Farooq S. (2012) Medicinal potential of *Moringa oleifera*: An overview of promising healer. *J. Med. Plant. Res.* 6 (27): 4368-4374
65. Shrivastava A., **Khan A.A.**, Shrivastav A., Jain S.K., Singhal P.K. (2012) Kinetic study of purified L-asparaginase from *Penicillium* sp. *Prep. Biochem. Biotech.* 42: 574-581 (Impact factor 3.141)

66. Shrivastava A., **Khan A.A.**, Jain S.K., Singhal P.K., Jain S., Marotta F., Yadav H. (2010) Biotechnological advancement in isolation of anti-neoplastic compounds from natural origin: a novel source of L-asparaginase. *Acta Biomedica* 81(2):104-108
67. Bhatnagar P., **Khan A.A.**, Jain M. Kaushik S. & Jain S.K. (2007). Microbiological study of khoa sold in chambal region (Madhya Pradesh): A case study. *Indian J. Microbiol.* 47(3): 263-266 (Impact factor 2.461)
68. Bhatnagar P., **Khan A.A.**, Jain M. & Jain S.K. Shrivastav A. (2007). Bacteriological study of khoa sold in Gwalior & Morena city (Madhya Pradesh) in relation to public health. *Asian J. Exp. Sci.* 21(1): 55-62
69. Jain M., **Khan A.A.**, Gupta A., Pandey M., Bhatnagar P., Jain S.K. (2008) An epidemic of typhoid fever in a hostel, *Indian J. Field Vet.* 4(1):46-47
70. **Khan A.A.**, Shrivastava A. Jain S.K. (2009) In vitro susceptibility of antibiotics against pathogenic bacteria, *BIOZONE Int. J. Life Sci.* 1(1): 24-27

BOOK CHAPTER

71. Shahid A., Hayat S., Munir S., Ashfaq U.A., **Khan A.A.**, Bilal M., Shaukat I., Khurshid M. (2022) Chapter 16- Modulation of human microbiome and drug metabolism. In: Akash M.S.H., Rehman K. (eds) *Biochemistry of Drug Metabolizing Enzymes*, Academic Press, Pages 375-397, DOI: <https://doi.org/10.1016/B978-0-323-95120-3.00012-9>.
72. Jha S., **Khan A.A.**, Ashraf M.T. (2019) Designing of Artificial Metalloenzymes. In: Husain Q., Ullah M. (eds) *Biocatalysis*. Springer, Cham DOI https://doi.org/10.1007/978-3-030-25023-2_9
73. **Khan A.A.**, Khan S. (2015) "Probiotics and cancer". *Encyclopedia of Cancer* (Ed) Manfred Schwab, Springer
74. Shrivastava A., **Khan A.A.**, Jain S.K., Singhal P.K. (2012) Bacterial asparaginase: A potential therapeutic agent for leukemia. "Bacteria and Cancer (Ed) Abdul Arif Khan, Springer Science Publisher, Netherlands
75. Bhatnagar P, **Khan A.A.**, Jain S.K. and Rai M.K. (2010) "Biodeterioration of archaeological monuments: An approach for restoration". *Geomicrobiology* (Ed) Sudhir K. Jain, A. Arif Khan, M.K. Rai, Science Publisher, CRC Press, USA
76. ***Khan A.A.**, Bhatnagar P., Jain S.K., Deshmukh S.K., Rai M.K. (2006) "Recent methods for fungal community analysis with special reference to TGGE and DGGE". *Current Advances in Fungal Biotechnology*" (Ed.) M. K. Rai Publisher- I. K. International Pvt Ltd. New Delhi, pp. 450-462

MAGAZINE ARTICLES

77. Sharma E., Rochlani D., ***Khan A.A.** (2011) Automated liver function test: An important advancement in rapid testing of liver function. *Med Equipments & Automation* Oct 2011, pp. 55-57
78. ***Khan A.A. (2010)** Automated antibacterial susceptibility testing in clinical laboratories. *Med Equipments & Automation* May-June 2010: pp. 44-47
79. Khan A.R., Farooq F., ***Khan A.A.** (2010) Clinical microbiology laboratory automation: A Way towards improving clinical microbiology diagnosis. *Med Equipments & Automation* Nov-Dec 2010: pp. 76-80
80. **Khan AA***. "एंटीबायोटिक रेजिस्टेंस एवं मानव जाती का भविष्य " In *Dainik Shramasadhna News Paper* 30th March 2023

FINANCIAL GRANTS

WEB TOOLS/RESOURCES DEVELOPED

81. Ansari H.R., Ahmad F., Haque A., **Khan A.A.** (2022) "NSCLCPred- Machine Learning based Tool for prediction of non small cell lung cancer" <https://hifzuransari.shinyapps.io/NSCLCPred/>
82. Jha S., Ashraf M.T., **Khan A.A.**, Ahmad S. (2016) "Algae Scan" <http://www.algaescan.org/index.aspx>
83. Shankar V., Khan A.A. (2009) "Herpes Web" <http://herpes.page.tl/>

ABSTRACT PUBLISHED

1. **Khan A.A.**, Shrivastava A., Jain S.K. (2018) Prevalence of Dental caries and effects of dietary habits: understanding effects of oral acid-base balance published in abstract book of 5th International Virtual Science Congress.
2. **Khan A.A.** (2014) "E. coli and colon cancer: Who is the culprit?" published in abstract book of 3rd TM World Cancer Conference, USA
3. **Khan A.A.** (2012) "Normal to Cancer Microbiome transformation: Giving clue for cancer detection" published in abstract book of 2nd TM World Cancer Conference, USA
4. **Khan A.A.** (2012) "Bacteriology and Cancer: An old association revisited" published in abstract book of 1st international conference on Biosciences and Bioengineering: A collaborative approach, India
5. **Khan A.A.** and Shrivastava A. (2009) "Medical waste disposal system: An integral part of hospital" published in abstract book National seminar on Recent Advances in Environmental Sciences, organized by PG Department of Life Sciences, IASCA, ITM Universe, Gwalior (M.P.)
6. **Khan A.A.** (2006) *Phylogenetic Analysis of Teeth Decaying Oral Bacteria through CLUSTAL W* published in Abstract book of 4th Annual Rocky Mountain Bioinformatics conference, Colorado USA
7. **Khan A.A.**, Jain M., Shrivastav A., Jain S.K. (2006) "*Bacterial infections jeopardizing patients to cancer*" published in Abstract book 47th AMI conference, Bhopal
8. Bhatnagar P., Mishra A., **Khan A.A.**, Shrivastav A., Jain S.K. (2006) "*TGGE & DGGE: An approach for molecular study of microbial community*" published in Abstract book 47th AMI conference, Bhopal
9. **Khan A.A.** & Shrivastava A. (2004) "*Effects of leaf extracts on the growth of E. coli*" published in M.P. Science Congress, Indian science congress association, Bhopal chapter

RESEARCH PROJECTS AS PRINCIPAL INVESTIGATOR

- Research Project approved for funding by Indian Council of Medical Research (ICMR), Government of India entitled "**Prevalence and factors associated with oncogenic Human Papillomavirus infection among female sex workers and men having sex with men**" with the value of INR 5872200 including three Project Staff) (2024-2026).
- National Program project under NFHS5 titled "**Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)**" sanctioned through NCDC, New Delhi with the value INR 23119110 (including nearly 10 research staff) (2023-2024)
- Startup Research Project (SRG) sanctioned by Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India through latter no. D/About/AFR/Khan/118

SRG/2021/000330 dated 10th Nov 2021 titled **“Host-pathogen interactions of HIV and associated common opportunistic infections: identification of important therapeutic targets and their modulators”** with the value of INR 3190000 including One Project Staff) (2022-2024) (Completed)

- Research Grant sanctioned by Indian Council of Medical Research (ICMR), New Delhi entitled **“Diagnostic validation of oral swab specimen for *Mycobacterium tuberculosis* detection with the indigenous molecular test Truenat among pulmonary tuberculosis suspects”** for one year INR 1145000 (3 Project Staffs) (2023-24)
- Artificial Intelligence Molecular Screen (AIMS) Award from Atomwise Inc. USA for **artificial intelligence based single molecule development for simultaneous management of cancer and associated Candida infection** (2019)
- Ramanujan Fellowship project sanctioned by Dept of Science and Technology, New Delhi, India for **evaluation of role of microflora in colorectal cancer** for five years. Sanctioned by latter F. No.SB-S2/RJN-102/2018 dated 21 Jan 2019 with the value of **INR 11900000**.
- Minor research project sanctioned by University Grants Commission, New Delhi, India titled **“Amelioration of dental caries: evaluation of indigenous plant products”** for two years. Sanctioned by latter F. No. 4S-02/2005-06 (MRP/CRO)/105003 dated 24 Feb 2006 with the value of **INR 100000**.

RESEARCH PROJECTS AS CO-INVESTIGATOR

- Core Research Grant (SRG) from Department of Science and Technology, SERB, Government of India through letter CRG/2021/000190 dated 09th Dec 2021, titled **“miRNA Loaded Nanoparticles: Investigation and Validation of Targeted miRNA Delivery as A Prospective Antiviral Approach Against HSV-2 Infection”** PI: Dr. Anupam Mukherjee, Co-PI: **Dr. Abdul Arif Khan**, with the value 4900000INR and one JRF (Project staff)
- Research Project approved for funding by Indian Council of Medical Research (ICMR), Government of India entitled **“Diagnostic validation of First Catch Urine and Self-collected Vaginal Swab specimens for molecular detection of Sexually Transmitted Infections among HIV positive women”** with the value of INR 6953692 including four Project Staffs) (2024-2026). Research Team: PI: Dr. Pallavi Shidhaye, Co-PI: Dr. Manisha Ghate, Dr. Sheela Godbole, **Dr. Abdul Arif Khan**

OTHER GRANTS

- Received Travel grant from **Department of Science and Technology (DST)**, Govt. of India, for participation in “International conference on Bioinformatics and Comparative genome analysis” held at Institute of Pasteur, Tunisia from 18-03-2007 to 07-04-2007, sanctioned by latter number SR/PF/66/2007-08 dated 14-03-2007
- Received **FEMS young scientist meeting grant** for participation in International conference on “Campylobacter Helicobacter and related organism 2007 (CHRO 2007)” at Rotterdam, Netherlands, through **Federation of European Microbiological Societies, Netherlands**

APPOINTED EXAMINERS AND OTHER ACADEMIC RESPONSIBILITIES

- **Approved PhD Supervisor** Faculty of Biological Research, Academy of Scientific and Innovative Research (AcSIR), India (19/07/2024)
- **Approved PhD Supervisor** (Biotechnology), Savitri Bai Phule Pune University, India (05/07/2022)

Dr Abdul Arif Khan PhD

INVITED SPEAKER

- **Approved PhD & MPhil Supervisor (Microbiology)** Savitri Bai Phule Pune University, India (24/02/2023)
- **Member for national advisory committee for National Seminar on Environmental Stress and Management (ESIM-2023)** at Govt. Autonomous KRG PG college, Gwalior, India from 16-17 February, 2023.
- **Examiner of PhD thesis (Microbiology)** for candidate in School of Studies in Microbiology, Vikram University, Ujjain (MP) India 2022
- **Examiner of MSc thesis (Applied Biology)** for candidate affiliated to University of Mumbai, Maharashtra, India Jan 2023
- **Program technical committee member for 3rd ScienceOne conference on Drug Discovery and Development** organized on January 21-23, 2014 at Dubai
- **External examiner** for B.Sc. practical examination in St. Alloysius College, Affiliated to Rani Durgavati University, Jabalpur (MP) INDIA on 19th February 2007
- **External examiner** for B.Sc. practical examination in P.G.V. College affiliated to Jiwaji University, Gwalior (MP) INDIA on 13th and 22nd February 2007
- **External examiner** for B.Sc. practical examination in M.G.M. College Morena (MP) affiliated to Jiwaji University, Gwalior (MP) INDIA
- **Examiner** in Bundelkhand University, Jhansi (UP) INDIA and Devi Ahilya University, Indore (MP) INDIA
- **Executive member in** Indian Council of Medical Research (ICMR), New Delhi sponsored conference "Recent trends in Molecular biology" held on 27-28th February 2006 in College of life Sciences, Cancer Hospital & Research Institute, Gwalior (MP)

- **Invited speaker** in 3rd World Cancer Online Conference, Organized in USA (21-24 Jan 2014).
- **Title of invited talk: *E. coli* and colon cancer: Who is culprit?**
- **Invited speaker** in 2nd World Cancer Online Conference, Organized in USA. (8-11 Jan 2013)
- **Title of invited talk: Normal to cancer microbiome transformation: Giving clue for cancer detection**
- **Invited speaker** in 1st International Conference on Biosciences and Bioengineering: A collaborative approach, India (06-07 July 2012)
Title of invited talk: Bacteriology and Cancer: An old association revisited
- For M.Sc. Microbiology and Biotechnology students for Bioinformatics subject in Department of Microbiology and Biotechnology, Dr. H. S. Gaur University (Now Central University), Sagar (M.P.) India

EDITORIAL AND REVIEWER RESPONSIBILITIES

Technical Editor - Research Journal of Microbiology

Editorial Board Member

Scientific Reports (Nature Group)

World Journal of Biological Chemistry

Journal of Tumor

Dr Abdul Arif Khan PhD

Journal of Immunology and Vaccine Technology

Elyns Journal of Cancer Research

Special Issue Editor

Frontier in Oncology

Frontiers in Molecular Biosciences

Diagnostics (MDPI)

Reviewer

Adsorption Science & Technology

Annals of Saudi Med

Archives of Medical Sciences

African Health Science Journal

Briefings in Bioinformatics

Cancer Biomarkers (IOS Press)

Cancer Letters (Elsevier)

Computational and Structural Biology Journal

Critical Review in Food Science and Nutrition

Crit Reviews in Microbiology (Taylor and Francis)

Diseases (MDPI)

Diagnostics (MDPI)

Environ, Dev Sustainability

FASEB J

Future Virology (Future Science Group)

Frontiers in Oncology

Funct food and human health (Springer India)

Inflammation Research

Iranian Journal of Kidney Diseases

International Journal of Phytomedicine

Journal of Biomedicine and Biotechnology

Journal of Clinical Medicine (MDPI)

npj Biofilms and Microbiomes (Nature Group)

Oncotarget

Pakistan Journal of Biological Sciences

Pak Journal of Zoology

Pharmaceutics (MDPI)

Protein and Peptide Letters (Bentham)

RADS J of Biol Research and Applied Sciences

Saudi J Biol Sciences (Elsevier)

Trends in Bioinformatics

Toxicology Mechanisms and Methods

Tumor Biology (Springer), World J Gastroenterology (Baishideng Publisher)

MEMBERSHIP OF
PROFESSIONAL SOCIETIES

Fellow - The Royal Society for Public Health (RSPH), London (UK)

Senior Member - The Asia Society of Researcher, Hong Kong

Senior Member - International Association of Educators and Researchers, UK

Senior Member - Hong Kong Chem, Bio & Environmental Engineering Society

CURRENT RESEARCH
TEAM AND STUDENT
SUPERVISION

Life Member- The National Academy of Science (NASI), India
Life Member - Society for Immunology and Immunopathology (SIIP), INDIA
Life member - Association of microbiologist of India (AMI)
Life Member - The Biotech Research Society of India (BRSI)
Life Member - Healthcare & Biological Sci Research Association (HBSRA)
Member - British Society for Antimicrobial Chemotherapy (BSAC), UK
Member- The Royal Society for Chemistry (RSC), UK
Member- Asian Council of Science Editor (ACSE), UAE
Member- International Association of Engineers, UK
Member - The Science Advisory Board, USA

CURRENT RESEARCH TEAM

- **Mr. Ajay Naitam, MPharm** (Intern) from Indian Institute of Science Education and Research, Kolkata
- **Ms. Fatima Attar**, Project Technical Support-III under “Diagnostic validation of First Catch Urine and Self-collected vaginal swab specimens for molecular detection of Sexually Transmitted infections among HIV positive women sanctioned through ICMR, New Delhi
- **Ms. Jagriti Pandey**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Ms. Siddhi Hire**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Mr. Shatadru Ghosh**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Ms. Astha Chouhan**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Ms. Zubiya Mirza**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Mrs. Pallavi Bansode**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Mr. Puttubala Lokesh**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Ms. Komal Raskar**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)” sanctioned through NCDC, New Delhi
- **Ms. Aiman Mujawar**, Research Assistant, working under Estimation of seroprevalence for

Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)" sanctioned through NCDC, New Delhi

- **Ms. Ashwini Godase**, Research Assistant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)" sanctioned through NCDC, New Delhi
- **Mr. Yashpal Gaikwad**, Laboratory Attendant, working under Estimation of seroprevalence for Hepatitis B and C among adults in India: National Family Health Survey (NFHS-5)" sanctioned through NCDC, New Delhi
- **Ms. Payal Ghanghav, INSPIRE Fellow**, B.Sc., D.Y. Patil University, working to understand drug resistance in Neisseria using molecular docking studies.

RESEARCH SUPERVISION

- **Mr. Sushrut Bhawe**, PhD student, worked as doctoral student under AcSIR PhD program funded through ICMR-Junior Research Fellowship, New Delhi
- **Mr. Zubiya Mirza** (M.Sc. Microbiology) MIT World Peace University, Pune working for understanding molecule mechanisms of HPV associated oral cancer and development of diagnostic tool using transcriptome-interactome signatures and AI/ML
- **Ms. Pooja Wakchoure (M.Sc. Bioinformatics)**, Project Associate –I, working under SERB funded research project to understand host-pathogen interactions of HIV associated opportunistic infections.
- **Ms. Tulika Ghosh (M.Sc. Microbiology)** , Research Intern, Uttaranchal P.G college of Biomedical Sciences and Hospital, India working on systems biology based host-pathogen interaction analysis
- **Ms. Samiksha Borole (M.Pharm)**, Research Intern, Poona College of Pharmacy, Maharashtra, worked on identification of natural inhibitors against HIV associated STIs and using network pharmacology approaches (Recently joined)
- **Ms. Khizra Momin** (M.Sc. Microbiol) Abeda Inamdar College, Savitribai Phule Pune University (2023)

Title: System Biology based understanding of HIV- Neisseria infection pathogenesis.

- **Ms. Neetu Sharma** (M.Sc. Microbiol)Jiwaji University, Gwalior (MP) INDIA
Title: Study of dental caries associated bacteria and analysis of conserved sequences in glucosyltransferase through bioinformatics tools.
- **Mr. Sandeep Nagaich**(M.Sc. Biotechnol)Jiwaji University, Gwalior (MP) INDIA
Title: Study of dental caries associated bacteria and conserved sequence prediction in glucosyltransferase
- **Mr. Mahesh Rathore** (M.Sc. Biotechnol) CSJM University, Kanpur (UP) INDIA
Title: Study of teeth decaying bacteria (with special reference to Streptococci spp.) and their phylogenetic analysis through bioinformatics tools.
- **Mr. Ankur Garg**(M.Sc. Biotechnol) Jiwaji University, Gwalior (MP) INDIA (2005)
Title: Study of amylase activity by B. megaterium at different pH value
- **Ms. Jyoti Sharma** (M.Sc. Microbiol) Jiwaji University, Gwalior (MP) INDIA (2008)
Title: In silico analysis of Paramyxovirus F protein with special reference to its antigenic and vaccine potential
- **Ms. Vinita Shankar** (M.Sc. Microbiol) Bundelkhand University, Jhansi (UP) INDIA (2009)
Title: Development of web resource for Herpes virus and its associated diseases
- **Mrs. Pinki Kushwaha** (M.Sc. Microbiol) Bundelkhand University, Jhansi (UP) INDIA (2009)
Title: Web resource development for anthrax

Dr Abdul Arif Khan PhD

ADMINISTRATIVE COMMITTEES	<ul style="list-style-type: none"> Ms. Naila(M.Sc. Microbiology) Jiwaji University, Gwalior (MP) INDIA (2009) Title: <i>In silico</i> analysis of adenovirus penton protein with special reference to its antigenic and vaccine potential
	<p>Bid Opener - Central Public Procurement Portal (CPPP)</p> <p>Member - ICMR-NARI PM-ABHIM for construction of new BSL3</p> <p>Member - ICMR-NARI Quality Management Committee</p> <p>Chairman - Local Purchase committee, ICMR-NARI</p> <p>Chairman - Tender Opening Committee, ICMR-NARI</p> <p>Member - Maintenance and Permit to Work Committee</p> <p>Member- ICMR NARI Foundation Day Organizing Committee</p> <p>Member - JRF and students selection Committee, ICMR-NARI</p> <p>Member - Residential Quarter Allotment Committee, ICMR-NARI</p> <p>Member - Hostel Allotment Committee, ICMR-NARI</p> <p>Member- BSL2/BSL3 Technical Committee, ICMR-NARI</p> <p>Member - Internal Proprietary Article Certificate evaluation Committee</p> <p>Member- AIDS Day Organizing Committee, ICMR-NARI</p> <p>Member - Committee for data collection for SAC specialist</p> <p>Member - SAC 2021 Minute writing Committee</p> <p>Member - Negotiation Committee for Rate Contract</p> <p>Member- Building Handover Committee, ICMR-NARI</p> <p>Member - Construction work monitoring Committee, ICMR-NARI</p> <p>Member - Constitution Day Organizing Committee 2019, ICMR-NARI</p> <p>Member - For digitalization of dissertation student selection at ICMR-NARI</p> <p>Member - For making cloud sheet for facilitating purchase at ICMR-NARI</p>
SCIENTIFIC INTERESTS	<p>Computational biology</p> <p>Systems Biology</p> <p>Host-pathogen interactions</p> <p>Artificial Intelligence and Machine Learning</p> <p>Network biology</p> <p>Cancer associated infections</p> <p>Cancer systems biology</p>
LANGUAGES KNOWN	<p>English (Fluent)</p> <p>Hindi (Native)</p> <p>Urdu (Good)</p> <p>Arabic (Elementary)</p>

Countries Visited (All Academic/Professional visits)	United States of America Kingdom of Saudi Arabia Tunisia
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