



**Department Of Microbiology,
GMC, Handwara**



DEPARTMENT OF MICROBIOLOGY GMC HANDWARA



Welcome to the Department Of Microbiology, GMC, handwara, Kashmir. Our department is home to multidisciplinary sections of microbiology. We are particularly focused on teaching, diagnosis, research and community service. Our staff members are enthusiastic and work hard to instill an interest in the subject to the young generation. Our central mission is teaching of microbiology and immunology to the professional students in the school of medicine of GMC, handwara. The research in the department focuses on areas related microbiology and immunology. Our faculty members are involved in various researches in different branches of clinical microbiology including Covid -19, TB, HIV etc.



DEPARTMENT OF MICROBIOLOGY GMC HANDWARA

Mission of the Department:

- ❖ Educating and Training Students in Field of Microbiology .
- ❖ Best Diagnostics Care for Patients.
- ❖ To Lead Infection Control and Antibiotic Stewardship Programs.
- ❖ Academic Research for Students and Faculty Members .



DEPARTMENT OF MICROBIOLOGY GMC HANDWARA

Vision of the Department

- Quality Education And Training of Students.
- Academic Progression .
- Patient Care Diagnostic Facility.
- Surveillance .
- Infection Control.



INFORMATION ABOUT STAFF

NAME	DESIGNATION	EMAIL	PHONE NUMBER
DR. SAQIB RISHI	ASSISTANT PROFESSOR	SAQIBRISHI25@GMAIL.COM	9797100330
DR. SEEMA ALEEM	ASSISTANT PROFESSOR	drseemaalim@GMAIL.COM	8221934559
DR. SASMITA PATTNAIK	DEMONSTRATOR	Sasmita.iari@GMAIL.COM	9906968595



INFORMATION ABOUT FACULTY



DR. SAQIB RISHI .
MBBS , MD, PGDCR.
ASSISTANT PROFESSOR

PUBLICATIONS:

- REVIEW ARTICLE : Inactivated vaccine covaxin/ BBV152: A systematic review.
- An overview of common organisms associated with community-acquired urinary tract infections and their antibiotic sensitivity: experience from government medical college and associated smhs hospital.
- Nosocomial candidemia in burn care unit at a tertiary care hospital in north india.

RESEARCH PUBLICATIONS OF THE STAFF MEMBERS/ PAPER PRESENTATION/ BOOK CHAPTERS

- Hospital-acquired MRSA sepsis in burn care unit of a tertiary care center in north India.
- Multidrug resistant pseudomonas aeruginosa and Klebsiella spp dual isolate, causing hospital acquired burn wound infection in burn care unit of a tertiary care hospital in north India
- Nosocomial vancomycin resistant staphylococcus aureus (VRSA) in a tertiary care teaching hospital; an emerging trend.
- Microbiology and drug resistance pattern in clinically significant isolates of urine from medical wards of a tertiary care hospital in north India.
- Correlation of Bacteriuria, Pyuria with Urine Culture in Symptomatic UTI Patients; a Study from a Tertiary Care Center in North India.
- Clinico-Demographic characteristics of Third Wave by Omicron (B.1.1.529) variant of SARS-CoV-2 at a Tertiary Care Center, J&K India
- CBNAAT Based Identification and Demographic Pattern of Drug Resistant Mycobacterium Tuberculosis in South Kashmir, India- a One Year Retrospective Study

PAPER/POSTER PRESENTATIONS:

CONFERENCE	TITLE OF THE PAPER PRESENTATION
NZMBICON (AMBI Haryana) Exploring Newer Avenues in Human Metabolic Health, by MM UNIVERSITY AMBALA.	NOSOCOMIAL VANCOMYCIN RESISTANT STAPHYLOCOCCUS AUREUS (VRSA) IN A TERTIARY CARE TEACHING HOSPITAL; AN EMERGING TREND.
NATIONAL SYMPOSIUM ON WORLD MICRBIOME DAY BY DEPARTMENT OF MICROBIOLOGY UNIVERSITY OF KASHMIR	Clinico-Demographic Analysis of Symptomatic versus Asymptomatic COVID -19 Patients: A One Year Retrospective Study from a Tertiary Care Center in Kashmir, India
“Bioradiance-The new dawn of covid 19: Are we still in the game”. Pushpagiri Research Centre and MACFAST, Tiruvalla, Kerala	“Multi drug resistant Pseudomonas aeruginosa and Klebsiella spp. dual isolate, causing hospital Acquired Burn Wound infection in Burn Wound infection in Burn.



INFORMATION ABOUT FACULTY



Dr. Seema Aleem
MBBS, MD.
Assistant Professor

PUBLICATIONS:

- **Aleem S**, Zahoor N, Jeelani A, Khan SMS. Diagnostic Accuracy of STANDARD Q COVID-19 Antigen Detection Kit in Comparison with RT-PCR Assay using Nasopharyngeal Samples in India J Clin of Diagn Res.2022; 16(1):DC01-DC05. <https://www.doi.org/10.7860/JCDR/2022/52286/15825>
- **Aleem S**, Multani H & Bashir H. (2021). Bacteriological profile and antimicrobial sensitivity pattern of isolates from diabetic foot of patients attending a teaching hospital in Northern India. Asian Journal of Medical Sciences, 12(5), 83-87.
- Multani H, VA Singh, Ishrat A, **Aleem S**. Biofilm producing pseudomonas aeruginosa isolated from infected wound: A Demagogue for clinicians. International journal of research, Vol 4, Issue 2.



INFORMATION ABOUT FACULTY

- Jeelani A, Majeed M, **Aleem S**, S.M Salim, Malik W R. Adverse events following CHADOX1-NCOV-19 (COVISHIELD) vaccine in Kashmir valley: Findings from follow-up of vaccine recipients using active surveillance. International Journal of Scientific Research: Volume-10/ Issue-9/ September -2021
- Nazir A, Bashir A, **Aleem S**, Shoaib MK. Aerobic Bacteriology of Burn Wound Infections in Burn Patients and Their Antibiotic Susceptibility Pattern in a Tertiary Care Hospital in Kashmir Valley. Journal of Advances in Medicine and Medical Research.
- Burnout among doctors working at a tertiary care hospital during pandemic of COVID-19 in Kashmir Valley, India. Nazir U , **Aleem S** , Jeelani A. International Journal of Occupational Safety and Health (IJOSH). 12(3), 215–223.
- Multani H, Bashir H, **Aleem S**. Asymptomatic Bacteriuria in pregnant women attending a tertiary hospital in northern India: prevalence, risk factors, causative organisms and antimicrobial sensitivity pattern. Asian Journal of Medical Sciences, Vol 12, Issue 9.
- Bashir H, Farhana A, **Aleem S**, Shoaib MK. Detection of catheter related blood stream infections in an ICU of a tertiary care center in Northern India. Indian journal of Microbiology Research, vol 8, Issue 2.
- Bashir H, Farhana A, **Aleem S**, Shoaib MK. Detection of catheter related blood stream infections in an ICU of a tertiary care center in Northern India. Indian journal of Microbiology Research, vol 8, Issue 2.



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- Jeelani A, Malik W R, Haq I, **Aleem S**, Mujtaba M, Syed N. Cross-sectional studies published in Indian journal of community medicine: Evaluation of adherence to strengthening the reporting of observational studies in epidemiology statement. Ann Med Health Sci Res 2014;4:875-8.
- Jeelani A, Irfan N, Ahmad MM, Malik WR, **Aleem S**. Prevalence of chronic obstructive pulmonary disease among adults in Kashmir (North India): a population-based survey. **International Journal of Community Medicine and Public Health (IJCMPH)**.

BOOK PUBLICATION:

- Authored a book on practical microbiology “**Handbook of practical microbiology**” ISBN NO978 - 93 - 91478 - 99 – 5.
- Authored a book titled “**Handbook of Laboratory Animals and Zoonotic Diseases**” ISBN: 978-93-5574-259-9



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PAPER/POSTER PRESENTATIONS:

- **IPHACON2021: National conference, JIPMER Pondicherry, 24th – 26th September 2021:** Diagnostic accuracy of one SARS-CoV2 antigen detection kit in comparison with RT-PCR assay using nasopharyngeal samples in India. Oral presentation.
- 20th Haryana State AOI Conference 2014, 8-9 November 2014, Venue: Government Medical College. Khanpur Kalan, Sonapat, Haryana. Title: Frequency of candida species in precancerous and Cancerous Oropharyngeal lesions.
- CME on Infectious diseases held in Punjab Institute of Medical Science, Jalandhar on 13 may 2015. Title: Uropathogen associated with asymptomatic urinary tract infection in diabetes mellitus patients.
- 40th Annual Conference of Indian Association of Medical Microbiologists 23rd-27th November 2016, PGIMER, Chandigarh.
- GISICON 2015 at GMC, Jammu, from 6-7 November 2015.



INFORMATION ABOUT FACULTY

DR. SASMITA PATTNAIK
DEMONSTRATOR
Sasmita.iari@GMAIL.COM
9906968595

Publications:

- Clinico-radiological profile of COVID-19 in Kashmiri population: A descriptive study. Shahnawaz M, Wani AH, Upadhyay S, Pattnaik S, Mustafa H, Azad AM, et al. 2021; J Family Med Prim Care.
- Nipah Virus: Outbreaks, Diagnosis and Prevention, Wani S, Farhana A, Nasir R, Pattnaik S, Fazli T and Zahoor D (2019) 9: 60-64 Journal of Research and Development.
- Seroprevalence of Herpes simplex virus 1 & 2 in high risk behavior individuals in a tertiary care centre. Wani, S., Farhana, A., Pattnaik, S., Nasir, R., Fazli, T., Zahoor, D., Mohiuddin, Z. and Rashid, K., 2019 24(3-4), p.23. JK-Practitioner
- The draft genome of Chorchorus olitorius cv. JRO524 (Navin) Debabrata Sarkar, Nisha Singh, N.k.singh....Sasmita pattnaik et al. (2017) 12:151-154 Genomics Data



INFORMATION ABOUT FACULTY

- Variation in Phenotypic Performance of Recombinant Inbred Lines of Rice (*Oryza Sativa* L.) Under Reproductive Stage Drought. C Prakash, S Pattnaik, D Nagaich, S.V. A Mithra, N K Singh (2016) 5(16) *Advances in Life Sciences*.
- Identification of a diverse mini-core panel of Indian rice germplasm based on genotyping using microsatellite markers K K. Tiwari, A Singh, S Pattnaik, et al., (2015), 134: 164-171 *Plant Breeding*.
- Evaluating the influence of novel cyanobacterial biofilmed biofertilizers on soil fertility and plant nutrition in wheat K Swarnalakshmi, R Prasanna , A Kumar, S Pattnaik, K Chakravarty , Y S Shivay , R Singh , A K Saxena (2013), 55; 107-116 *European journal of Soil biology*.
- Development of cyanobacterium based biofilms and their invitro evaluation for useful traits as potential bioinoculants R Prasanna, S Pattnaik, T.C.K Sugitha, L Nain and A K Saxena (2011), 56(1): 49-58 *Folia Microbiologica*