

PERSONAL
INFORMATION

SURENDRA KUMAR MADHUP

📍 Current: Gwarko, Lalitpur, Nepal
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✉ sur2036@hotmail.com

Sex Male | Date of birth 01/07/1979 | Nationality Nepalese

WORK EXPERIENCE

March 2020 - Present

Incharge, COVID-19 Molecular Laboratory
Dhulikhel Hospital, Kathmandu University Hospital

Responsibilities:

- Performing and supervising detection of SARS-CoV-2 through RT-PCR
- Performing and supervising report dispatch and data management
- Validating various PCR and Extraction Kit
- Procurement of supplies for COVID related activities

1 July 2009 - Present

Lecturer/ Medical Microbiologist/ Department Incharge
Dhulikhel Hospital, Kathmandu University Hospital, Dhulikhel, Kavre, Nepal
GPO 11008, Ph. +977 11 490497 Ext. 413

microbiology@dhulikhelhospital.org, www.dhulikhelhospital.org

Responsibilities:

- Course Coordinator for BSc Laboratory Medicine, Kathmandu University, School of Medical Sciences (KUSMS)
- Teaching undergraduate students at Kathmandu University, School of Medical Sciences (KUSMS)
- Laboratory Incharge at Department of Microbiology and Molecular Diagnostic Lab, Dhulikhel Hospital
- Microbiologist at Department of Microbiology and Molecular Diagnostic Lab, Dhulikhel Hospital
- Member of Institutional Review Committee of KUSMS
- Member of Infection Control Committee, Dhulikhel Hospital

License: NHPC A-18 Diagnostic Medical Microbiology

10 May 2005- 30 June 2007

Instructor/ Microbiology Laboratory Incharge
Dhulikhel Hospital, Kathmandu University Hospital, Dhulikhel, Kavre, Nepal
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- Teaching intermediate level students at Dhulikhel Medical Institute
- Incharge of Microbiology Laboratory, Dhulikhel Hospital

1 April 2003- 7 May 2005

Laboratory Incharge/ Medical Laboratory Technologist
Manipal Teaching Hospital, Pokhara, Nepal
Incharge of the Microbiology Laboratory, Manipal Teaching Hospital

EDUCATION

- July 2007- July 2009 **M.Sc.MT Medical Microbiology**
Post Graduate Institute of Medical Education and Research (PGI MER), Chandigarh, India
Molecular Biology, Bacteriology, Mycology, Virology, Pathology, Infectious Disease
- August 1999- Jan 2003 **B.Sc. MLT**
Jawaharlal Nehru Medical College, Belgum, Karnataka, India (Affiliated to Rajiv Gandhi University of Health Sciences, Bangalore, India)
- July 1997- August 1999 **I.Sc**
Bihar Intermediate Council, Patna, India
- 1995 **S.L.C.**
Koteshwor Saraswati Secondary School, Koteshwor, Kathmandu
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SHORT COURSES/TRAINING

- 16 August – 18 August 2022 **Training on bioinformatics analysis and scientific interpretation of SARS-CoV-2 genomic data**
WHO and NPHL with CSIR-IGIB, India
- 10 February-28 February 2020 **Rapid Response Training on Methodology and Practice of Metagenomic Next Generation Sequencing Techniques: Bioinformatics Applications for metagenomic data analysis using IDSeq Global Portal**
Chan Zuckerberg Biohub, San Francisco, CA, USA
- 3rd February 2011- 2nd March 2011 **Advanced course in molecular sequencing and viral molecular diagnosis**
Department of Laboratory Medicine, NTNU, Norway
- December 2008 (Two weeks) **Advanced course in Molecular Epidemiology**
Department of Microbiology, PGIMER, Chandigarh, India
- May 2008 (One week) **Fungal identification and it's Molecular Diagnosis**
Department of Microbiology (Subdivision Mycology), PGIMER, Chandigarh, India
- December 2007 **Hospital Infection Control**
All India Institute of Medical Science (AIIMS), New Delhi, India
- December 2020 **PBMC isolation and cryopreservation**
Dhulikhel Hospital, Kathmandu, Ketotifen and Indomethacin Combination treatment Clinical Trial for COVID-19 (KICC)

PUBLICATIONS AND ACHIEVEMENTS

Madhup SK, Shrestha R, Katuwal N, Magar SR, Shrestha S, Bhandari S, et al. Seroprevalence of Scrub Typhus in patients attending Dhulikhel Hospital, Kavre. Kathmandu Univ Med J. 2021: 76(4); 494-98

Madhup SK, Shrestha R, Panta R, Chauguthi L, Katuwal N, Shrestha S. Prevalence of pathogenic bacteria in meat products and their antimicrobial resistance pattern. Ann. Clin. Chem. Lab. Med. 2021:4(1); 13-19.

Shrestha R, Katuwal N, Adhikari N.....**Madhup SK**.....et al. Whole Genome Sequence Analysis to Identify SARS-CoV-2 Variant in, Nepal. Kathmandu Univ Med J. 2021;74(2):237-42.

Andrews JR, Vaidya K, Bern C, Tamrakar D, Wen S, **Madhup S**, Shrestha R, Karmacharya B, Amatya B, Koju R, Adhikari SR, Hohmann E, Ryan ET, Bogoch II. High Rates of Enteric Fever Diagnosis and Lower Burden of Culture-Confirmed Disease in Peri-urban and Rural Nepal. J Infect Dis. 2018 Nov 10;218(suppl_4):S214-S221

Singh, S.D., **Madhup, S.K.** (2013) Clinical Profile and Antibiotics Sensitivity in Childhood Urinary Tract Infection at Dhulikhel Hospital. KUMJ. 11(44): 319-24

I. L. Lee, T. C. Tan, P.C. Tan, D.R. Nanthiney, M.K. Biraj, K.M. **Surendra**, K.G Suresh (2012) Predominance of Blastocystis sp. subtype 4 in rural communities, Nepal Parasitol Res 110:1553–62

Acharya, D., Trakulsomboon, S., **Madhup, S.K.**, Korbsrisate, S. (2012) Antibiotic susceptibility pattern and the indicator of decreased ciprofloxacin susceptibility of Salmonella enterica serovar Typhi isolated from Dhulikhel Hospital, Nepal. Jpn J Infect Dis. 65:264-7.

Gautam, V., Arora, A., **Madhup, S.K.**, Das, A., Vandamme, P., Ray, P. (2010) Burkholderia Cepacia Complex in septicaemia non-cystic fibrosis cases of two tertiary care hospital in north India. IJMR. 131: 829-32

Chatterjee, S.S., Karmacharya, R., **Madhup, S.K.**, Gautam, V., Das, A., Ray, P. (2010) High Prevalence of Co-expression of Newer β -lactamases (ESBLs, Amp-C- β -lactamases and metallo- β -lactamases) in Gram negative bacilli, IJMM. 28(-3): 267-8

Gautam, V., Ray, P., Vandamme, P., Chatterjee, S.S., Das, A., Sharma, K., Rana, S., Garg, R.K., **Madhup, S.K.**, Mahajan, M. and Sharma, M. (2009) Identification of Lysine Positive Non-fermenting Gram Negative bacilli (*Stenotrophomonas maltophilia* and *Burkholderia cepacia* complex). IJMM. 27(2): 128-33

Gautam, V., Ray, P., Puri, G.D., Sharma, K., Vandamme, P., **Madhup, S.K.**, Das, A., Malhotra, P., Trehan, A., Garg, R.K., Rana, S., Koushal, V., Kumar, A. (2009) Investigation of *Burkholderia cepacia* complex in Septicaemic Patient in a Tertiary Care Hospital, India. NMCJ. 11(4): 222-4

Shrestha, S., Dongol, S.S., Shrestha, N.C., Shrestha, R.P.B., **Madhup, S.K.** (2013) Comparison of Clinical and Laboratory Parameters in Culture Proven and Unproven Early Onset Sepsis in NICU. KUMJ. 11(44): 310-4

PERSONAL SKILLS

Language(s) English, Nepali, Maithali (Mother Tongue)

Communication Skills - Excellent Teaching and Communication Skills obtained as a part of my work as Lecturer
- Excellent Presentation Skills obtained from work as Researcher and Lecturer

Job-related skills - Next Generation Sequencing (NGS): Dry and Wet Lab Techniques
- PBMC isolation and cryopreservation during KICC project.
- Laboratory experience in detection of SARS-CoV-2 RT- PCR
- Bioinformatics Tool (Genome Analysis, Primer Design)
- Internal Quality Control of Microbiology Laboratory
- Polymerase Chain Reaction for the amplification of extracted Microbial DNA
- Statistical Analysis Software (SPSS)

Driving licence ▪ A (Motorbike)

Declaration:

I hereby declare that the particulars furnished above are true, complete and correct to the best of my knowledge and belief.