

PRAKASH GHIMIRE, Ph D

Central Department of Microbiology

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PROFILE

A professional microbiologist completed doctorate degree with good academic and practical skills combined with active social life. I have been involved in tropical, infectious and vaccine preventable disease research including Malaria, Leishmania, Tuberculosis, Meningitis, Antimicrobial screening & resistance, HIV, Japanese encephalitis, Measles, Poliomyelitis etc. My task involved the immunodiagnostic technology development, validation and transfer of technology at Tribhuvan University. I have worked for 4 years as Ph D Scholar at All India Institute of Medical Sciences in a collaborative research work between AIIMS, National Institute of Immunology, Malaria Research Center, New Delhi & Tribhuvan University, Kathmandu. I have been involved in teaching Post graduate Medical Microbiology, Designing & Supervision of Masters, Ph D Level Research at Tribhuvan University. I have been involved in WHO/ GFATM/ HMG collaborative Projects involving Malaria control through improved access of early Diagnostics prompt treatment, anti-malarial drug efficacy & drug resistance studies, Capacity building for Vaccine evaluation laboratory at National Drugs Control Authority in Nepal. I have been presently working as a Microbiologist in capacity strengthening of National Laboratories for vaccine preventable disease surveillance with WHO/HMG collaborative program in Nepal.

Key personal skills	Can work independently still being a part of team Good presentation and communication Can produce good reports Responsible, organized, able to adapt in US & Eurasia region easily
Key laboratory skills	Microbiology (Diagnostic, Pharmaceutical, Molecular and Epidemiological studies involving bacteriological and parasitological works following GLP procedures) Vector borne (Insect borne) diseases research: Surveillance, Drug efficacy, Drug evaluation, Diagnostics development & evaluation, epidemiology Immunology (ELISA, ELISPOT, FACS) Cell line & Tissue culture (Hela, Vero, SP2O, Hybridoma) Molecular biology (PCR, RT PCR) Biotechnology (DNA extraction, purification, analysis, quantification) Biochemistry (Protein Purification from natural / recombinant system and analysis) Fermentation (batch and fed-batch culture for production of recombinant protein) Epidemiology (Outbreak investigation and characterization etc) Vaccinology (Vaccine development & Trials)

ACADEMIC ACHIEVEMENT

1998- 2003	<i>Ph D – “Production of Murine monoclonal antibody to Pf HRP-II for the development of an immunodiagnostic assay and study its comparative efficacy for the diagnosis and prognosis of malaria in human beings.”</i> April 2003- Department of Microbiology, All India Institute of Medical Sciences, New Delhi, India
1993-1995	M. Sc. Microbiology in First Class with distinction with dissertation entitled “ Urinary Tract Infection in Nepalese Women ” from Central Department of Microbiology, Tribhuvan University, Nepal.
1991-1992	B. Sc. (Microbiology/Chemistry/Zoology) in First Class from Tri-Chandra Multiple Campus, Trivhuban University, Kathmandu, Nepal.

TRAININGS:

- November 2005 *Laboratory Diagnosis of Hemophilus influenzae b for surveillance in Nepal; WHO-IPD/ NPHL,*
- October 2005 *Laboratory based Surveillance of antimicrobial resistance in Nepal; USAID/NPHL, Kathmandu*
- September 2005 *Epi-INFO- Epidemiological data analysis and management package – WHO-IPD/ Health Net Nepal*
- July 11-14, 2005 *Emergency Preparedness for Health in Nepal– WHO HAC ; WHO Kathmandu*
- Dec- 2003 *Tuberculosis Laboratory Management Training; SAARC Tuberculosis Centre/WHO/ Health Canada,*
- 8-11th Dec- 2003 *Editing Skills to Editors of Scholarly Journals; INSAP/PERI/Tribhuvan University, Kathmandu*
- Sept - Oct 2002 *Advanced course on Immunology, Vaccinology & Biotechnology applied to infectious Diseases, WHO IRTC, SDC, Univ. Lausanne, Geneva, Lausanne, Annecy*
- Aug - Sept 2002 *Surveillance of Transmissible Diseases; Swiss Tropical Institute, Basel, WHO IRTC & SDC*
- April-May 2002 *South East Asian Bioinformatics training course applied to Tropical Diseases , WHO TDR/ ICGEB*
- Dec 1999 *International Training & Research in emerging infectious diseases, Univ. of Washington, Asian Regional Workshop on Intra-cellular Pathogens*

PUBLICATIONS:

- **Ghimire Prakash**, Dhungel S, MacDonald M, Modulation of Whole Blood Immune Responses to Phenolic Glucolipid (PGL-I) of *Mycobacterium Leprae*. *Scientific World*, **2005 July; 3:62-64**
- **Ghimire Prakash**, Rijal B P, Tuladhar N R, Comparison of Acid fast bacilli smear and culture for the diagnosis of extra-pulmonary tuberculosis. *Journal of Nepal Medical Association*, **2004; 43:235-238.**
- **Ghimire Prakash**, Pandey B, Agrawal VP, Studies on the antimicrobial activity of the actinomycetes isolated from the Khumbu region of Nepal. **CNR 2004.**
- **Ghimire Prakash**, Sapkota D, Manandhar SP, Cryptosporidiosis: Opportunistic infection in HIV/AIDS Patients in Nepal. *Journal of Tropical Medicine & Parasitology*, **2004; 27:7-10**
- **Ghimire Prakash**, Sapkota D, Manandhar SP, Enteric Parasitosis in patients with HIV/AIDS infection in Nepal. *Journal of Nepal Health Research Council*, **2004; 2 (1) 7:9-13**
- **Ghimire Prakash**, Malla B, Sharchand JB, BC Rajendra Kumar, Gauchan P. Prevalence of intestinal parasitosis in malnutrition among children in rural community. *Journal of Nepal Health Research Council*, **2004; 2 (1) 7:55-58**
- **Ghimire P**, Tiwari KB, Rijal B, Sharma AP. Pleocytosis and Bacterial growth in patients visiting TUTH. *Journal of Institute of Medicine*, **2004,26:23-24**
- **Ghimire P**, Dhungana JR, Bam DS, Rijal B. Tuberculosis and HIV Co-infection status in United Mission Hospital, Tansen-Western Nepal. *SAARC Journal of Tuberculosis, Lung Diseases and HIV/AIDS*, **2004; 1(1): 32-38.**
- **Ghimire Prakash¹**, Puspa Raj Pande, Deepak Joshi, Yogan Khatri, Keshab Parajuli. Evaluation of the rapid immunochromatographic test (Optimal) for the diagnosis of malaria in Nepal. *Scientific World*, Ministry of Science & Technology, HMG Nepal-**2004; 2(2): 40-44.**
- **Ghimire P**, Bhattarai NR, Shrestha B, Rijal B. Resistance to anti-TB drugs in Kathmandu. *SAARC Journal of Tuberculosis, Lung Diseases and HIV/AIDS*, **2004; 1(1): 39-42.**
- **Ghimire P**, Banjara MR, Sharma AP, Joshi AB, Tuladhar NR, Bhatta DR. Microbial analysis of air & water of Tribhuvan University Teaching Hospital as a source of nosocomial Infection. *Journal of Institute of Science & Technology, Kathmandu.* Dec 2003; **13:77-83.**
- **Ghimire Prakash¹**, Upadhaya S¹, Thakur GD², Sharma S, Parajuli K¹. Prevalence of lymphatic filariasis in Parsha, a LF endemic district of Nepal. *Scientific World* Ministry of Science & Technology, HMG Nepal-*July 2004; 2(2): 69-72.*
- **Ghimire P**, Parajuli K, Sharma S, Neupane BP. Intestinal Parasitosis in school children of Nepal during 2001. *Journal of Institute of Science & Technology, Kathmandu.* July 2004; **13:124-129.**
- **Ghimire Prakash¹**, Deepak Joshi, Puspa Raj Pande, Yogan Khatri, Keshab Parajuli. Falciparum malaria outbreak in Kanchanpur District, Nepal. *Journal of Nepal Association of Medical Laboratory Sciences-2004; 6: 28-31.*
- **Ghimire Prakash¹**, Thakur GD², Yadav NP¹, Bhatta DR¹, Parajuli K¹, Pokharel RK³. Prevalence of lymphatic filariasis in an endemic district of Nepal. *The Journal of Tropical Medicine & Parasitology, Bangkok, Thailand, Dec-2003; 26*

(2): 57-61

- **Ghimire Prakash**, Keshab Parajuli, Yogan Khatri, Ram Bahadur Shrestha, Madan Kaji Shrestha, Hari Govind Shrestha. Diagnosis of malaria suspected patients attending TUTH, Kathmandu. *Journal of Nepal Association of Medical Laboratory Sciences-2004*; **6**: 14-18
- **Ghimire Prakash**¹, Samantaray JC², Mirdha BR², Patra AK³, Panda AK³, Purification and partial characterization of Pf HRP-II protein of *Plasmodium falciparum*. *Southeast Asian Journal of Tropical Medicine and Public Health, Bangkok, Thailand*, Dec 2003; 34(4): 739-743
- Shrestha D¹, **Ghimire Prakash**¹, Shrestha SM². Status of bacterial infection in Acute Hepatitis in different health facilities of Kathmandu Valley. *Journal of Nepal Health Research Council, Kathmandu. Dec 2003*; **3**:34-37.
- **Ghimire Prakash**, Sushil Chandra Regmi. Rapid Diagnostic Tests in diagnosis of Urinary Tract Infection. *Journal of Nepal Association of Medical Laboratory Sciences, 2004*; **6**: 32-34.
- **Ghimire Prakash**¹, Samantaray JC², Mirdha BR², Patra AK³, Panda AK³. Antibody development kinetics of *Plasmodium falciparum* HRP-II. *Journal of Nepal Health Research Council, Kathmandu. April 2003*; **2**:7-15.
- Banjara MR, **Ghimire P**, Joshi AB, Tuladhar NR, Bhatta DR. Post Operative wound infection in TUTH. *Journal of Nepal Health Research Council, Kathmandu. April 2003*; **2**:41-45.
- **Ghimire P**, Banjara MR, Sharma AP, Joshi AB, Tuladhar NR. Nosocomial infections of burn wound at TUTH. *Nepalese Journal of Microbiology, Kathmandu. Dec 2003*; **1**:7-10
- **Ghimire P**, Rai DR, Sharma BK, Bhatta DR, Rai SK. Status of intestinal protozoan parasitic infection in Northern part of Kathmandu, Nepal. *Nepalese Journal of Microbiology, Kathmandu, Dec 2003*; **1**:16-20.
- **Ghimire P**, Tiwari KB, Rijal BP. Turbid CSF: Indicator of Pyogenic Meningitis. *Nepalese Journal of Microbiology, Kathmandu. Dec 2003*; **1**:21-23
- **Ghimire P**, Parajuli K, Neupane BP. Prevalence of intestinal protozoan in Nepalese Children. *Nepalese Journal of Microbiology, Kathmandu. Dec 2003*; **1**:24-27
- **Ghimire P**, Subedi RP, Bhatta DR, Pandey B, Acharya P, Sharma U. A Survey on ambient air bacterial flora from different traffic load zones of Kathmandu. *Nepalese Journal of Microbiology, Kathmandu. Dec 2003*; **1**:24-27
- **Ghimire Prakash**, Samantaray JC, Mirdha BR. Antigen detection test, a tool for rapid diagnosis of malaria. *Journal of Institute of Science & Technology, Tribhuvan University, 2002, 12*:9-16.
- **Ghimire Prakash**, Tiwari BR, Baral MP, H Matsuoka. Blue formazon spot test: A simple screening method for Glucose-6- Phosphatase dehydrogenase deficiency. *Journal of Institute of Science & Technology, Tribhuvan University, 2002, 12*:83-87.
- **Ghimire Prakash**, Karki A, Amatya S. Epidemiological survey of Cholera in Kathmandu valley during outbreak season 1997, *Journal of Institute of Science & Technology, Tribhuvan University, 2002, 12*:119-123.
- **Ghimire Prakash**, Joshi M, Manandhar SP. Seroprevalence of Hepatitis B & C infections among blood donors of Kathmandu valley. *Journal of Institute of Science & Technology, Tribhuvan University, 2002, 12*: 43-50.
- **Ghimire Prakash**, Samantaray JC, Mirdha BR. Diagnosis of *Plasmodium falciparum* infection by detecting PfHRP-II antigen using Parasight-F test in blood and urine samples of malaria patients. *Journal of Nepal Medical Association, Oct. 2001, 40*; **140**:201-208
- **Ghimire Prakash**, Samantaray JC, Mirdha BR. Comparative evaluation of four different techniques used in the diagnosis of malaria. *Journal of Institute of Medicine, Tribhuvan University, 2001*; **23**:46-54
- Mirdha BR, Samantaray JC, Burman D and **Ghimire Prakash**, Quantitative Buffy Coat: A special adjunct for the diagnosis of malaria. *Journal of Communicable Diseases* **1998**; **31**(1): 19-22.
- **Ghimire Prakash**, Sharma AP, Adhikari M. Prevalence of UTI in Pregnant Women of Nepal. *Journal of Nepal Medical Association. 1995*; **33**:232-235.

WORK EXPERIENCE:

Microbiologist

Feb 2005- Till date

WHO-Program for immunization
Preventable diseases, Kathmandu

Duties: Strengthening Laboratory capacities for Surveillance of vaccine preventable diseases including Japanese encephalitis, Poliomyelitis, Measles, and Bacterial Meningitis etc.

Malaria Specialist (Parasitology)

Aug. 2004- March 2005

Global Fund Malaria Control Project
M & E Unit, Ministry of Health, Nepal

Duties: Monitoring, Supervision and planning of Malaria Control Programme in Nepal

Associate Professor

Feb 2005 – till date

Central Department of Microbiology
Tribhuvan University, Kathmandu

Duties: Academic activities involving PG teaching, evaluation & supervision of Post graduate Medical Microbiology and immunology course. Tropical & Infectious Disease diagnostics / drug and vaccine research.

Asst. Prof. Microbiology March 1996 – Jan 2005

University Campus, **Tribhuvan University, Kathmandu**

Duties: Teaching post graduate medical Microbiology, Immunology, Mol biology, Tropical & Infectious Disease Research

Microbiologist (Visiting)

July 1996- Dec 1997

Siddhartha Apollo Hospital, Kathmandu

Duties: Laboratory Diagnosis of infectious and other microbial diseases.

Lecturer, Microbiology Nov 1995-Nov1996

Kathmandu Medical College, Kathmandu

Duties: Teaching under graduate medical Microbiology, Immunology to Medical Students

Junior Microbiologist Jan 1993 – June 1996

Infertility Centre, Kathmandu

Duties: Laboratory diagnostic works related to reasons for infertility.

AWARDS

- **Crown prince young scientist award –2002** – Royal Nepal Academy of Science & Technology
Research in malaria diagnostics
- **Young Bio-Medical Scientist Award -2002**– Nepal Health Research Council
PCR in the diagnosis of malaria in Nepal
- **Research Grant from IOST, Tribhuvan University** -“*Molecular analysis of antibiotic resistance in Kirtipur*”
- **B. P. Koirala India Nepal Foundation- Ph. D. Fellowship** - 1998-2001.
- **RONAST** - M. Sc. Research Grant Award- 1994, for M. Sc Microbiology Thesis Preparation.
- **Genius Student Fellowship**- M. Sc. Microbiology- Tribhuvan University –1993
- **Travel Grant** – 12th Molecular Parasitology Meeting, Conference Travel Grant sponsored by University of Pennsylvania, USA and MPM, Sept. 2001.
- Dwaraka Prasad Trust Grant-1999, All India Institute of Medical Sciences- 22nd IAMM congress Travel Grant for research paper presentation.
- **NORAD/ IAMLT- IAMLT** 22nd world congress Travel Grant for research paper presentation.

MEMBERSHIP

Member-American Society for Microbiology

1998-Till date

Member-American Society for Tropical Medicine & Hygiene

1998-Till date

Member-International society for Infectious Diseases

2001- Till date

Life Member- Biotechnology Society of India.

2000- Onwards

Life Member – Nepalese Society for Microbiology

2002 – onwards

Life Member- Nepal Pharmaceutical Association

2002 – onwards

REFERENCES:**Dr Bijoy Ranjan Mirdha**

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Epidemiology & Disease Control Division,

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Epidemiologist & Head

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