Dr. Girish M. Bhopale

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Dr. D.Y. Patil Vidyapeeth
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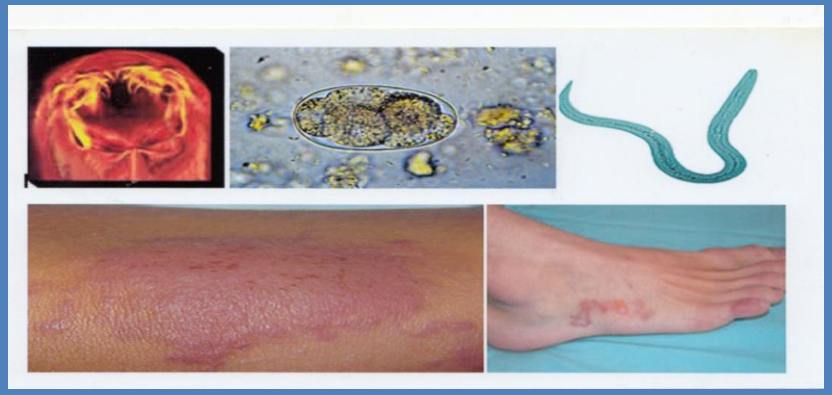
Experimental Ancylostomiasis – Chemotherapy – Immunology



Dr. Bhopale was recipient of junior research fellowship from Indian council of Medical Research , New Delhi, India and obtained his Ph. D degree from Vikram University, Ujjain. MP, India [year 1882]

*** Ancylostomiasis is a disease of world-wide distribution affecting both animals and man.**

• Cutaneous and visceral larva migrans caused by *Ancylostoma caninum are* zoonotically important .

•Several broad spectrum anthelmintics are available for the treatment of adult intestinal nematodes but very few are effective against migrating larvae.

• We evaluated various anthelmintics against the experimental larval infection of *Ancylostoma caninum* in mice. In addition, we also studied the serum protein changes after administration of effective anthelmintics and host immune response against homologous challenge infection after application of effective anthelmintics.

The research result outcomes has published

Selected research publications: [Google Scholar]

- **Bhopale G.M.** and Bhatnager B.S. Evaluation of the efficacy of anthelmintics against *Ancylostoma caninum in vitro*. Indian Veterinary Journal, (1984), 61,103-106. [IF 0.05] [Number of Citations 1].

* **Bhopale G. M.** and Bhatnagar B.S. The efficacv of some newer broad spectrum anthelmintics against third stage larvae of *Ancylostoma caninum* in the mice. Journal of Helminthology (1985), 59, 307-311. [IF 1.38] [Number of Citations 5].

* **Bhopale G.M.** and Bhatnagar B.S. Serum protein profile of mice during infection with larvae of *Ancylostoma caninum* and after the administration of tetramisole and levamisole. Journal of Hygiene Epidemiology Microbiology and Immunology (1984), 4, 455-459. [Number of Citations 4].

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>>>>> [Google Scholar]

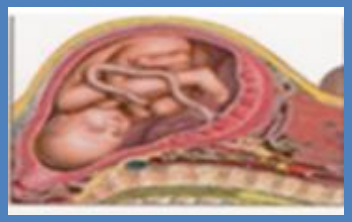
* Bhopale G. M. and Bhatnagar B.S. Host immune response against homologous challenge infection of *Ancylostoma caninum* after application of effective anthelmintics. Journal of Hygiene, Epidemiology, Microbiology and Immunology (1984), 28, 399-343.

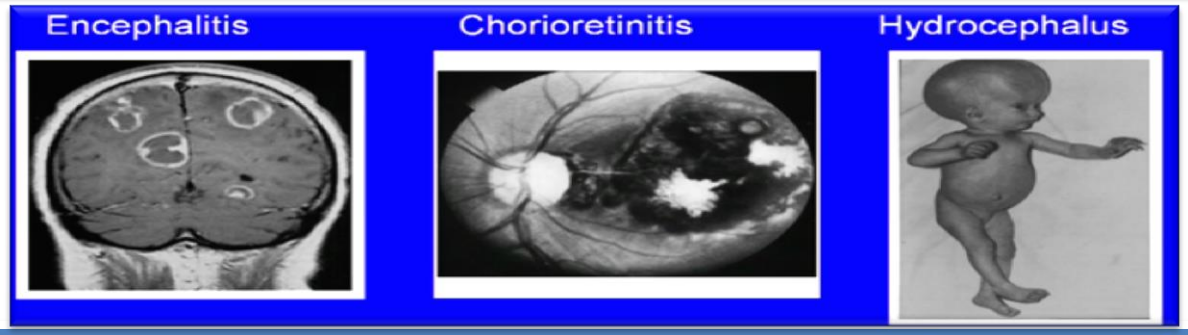
* Bhopale G.M. and Bhatnagar B.S. Efficacy of benzimidazoles against larval *Ancylostoma caninum* infection in mice. Folia Parasitologica (1986), 33, 148-150. [IF 1.812].

* Bhopale G. M. and Bhatnagar B. S. Efficacy of various anthelmintics against third stage larvae of *Ancylostoma caninum* in the brain of mice. Journal of Helminthology (1988), 62, 42-44. [IF 1.38] [Number of Citations 3].

* Bhopale G. M. , Arun Kumar and Nayar P. R. G. Development of host resistance to *Ancylostoma ceylanicum* after the elimination of primary infection with oxfendezole. Hindustan Antibiotics Bulletin (1984), 26,140-141. [Number of Citations 1].

Toxoplasmosis- Immunodiagnosis- Chemotherapy





Toxoplasmosis, caused by intracellular protozoan parasite, *Toxoplasma gondii* , is widely distributed throughout the world. The disease exhibited various clinical manifestation and therefore pose difficulty in diagnosis.

We have developed ELISA based diagnostic kits Toxokit-G and Toxokit-M using penicillilase as an enzyme marker for the diagnosis of toxoplasmosis.

The research result outcomes has published

Selected research publications: [Google Scholar]

* **Bhopale G. M.** and Naik S. R. Toxoplasmosis in India. Indian Practitioner (1992), 45,237-245. [Number of Citations 3].

- **Bhopale G.M.** and Naik S.R. Penicillinase as a potent enzyme marker for Enzyme link Immunosorbent Assay and its application in immunodiagnostic. Hindustan Antibiotics Bulletin (1993), 35, 257-17 [Number of Citations 2].

* **Bhopale G. M.** and Naik S. R. Strip ELISA for the detection of IgG antibodies to *Toxoplasma gondii.* Indian Journal of Medical Research (1994), 99, 68-70. [IF 1.83] [Number of Citations 1].

Bhopale G. M. Naik S. R. Bhave G. G. Naik S. S. and Gogate A. Assessment of Enzyme Linked Immunosorbent Assay based diagnostic kits (Toxokit-G and ToxoKit-M) for the detection of IgG and IgM antibodies to *Toxoplasma gondii* in human serum. Comparative Immunology Microbiology and Infectious Diseases (1997), 20, 309-314. [IF 2.337] [Number of Citations 5].

* **Bhopale G. M.** and Naik S. R. Detection of circulating antigens by ELISA using penicillinase in mice infected with *Toxoplasma gondii.* Rocz Akad Med Bialymst (2000), 45, 14-18. [Number of Citations 4].

VASVIK

संशोधनेन संवृद्धि:

VIVIDHLAXI AUDYOGIK SAMSHODHAN VIKAS KENDRA

INDUSTRIAL RESEARCH AWARDS

AWARD WINNERS

Biological Sciences & Technology

YEAR	WINNERS	SUBJECT OF RESEARCH
1995	**Dr. Suresh Ramnath Naik** **Dr. Girish Mahadeorao Bhopale** Hindustan Antibiotics Ltd, Pune	Development of toxoplasma detection kits for antibodies in toxoplasmosis diseases.

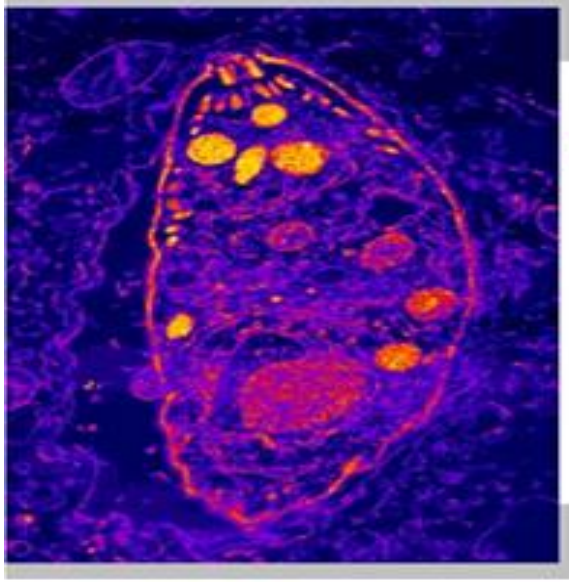
The most cited articles:

[Google Scholar]

* **Bhopale G.M.** Pathogenesis of toxoplasmosis. Comparative Immunology Microbiology and Infectious Diseases. (2003), 26, 213-222 **[IF 2.337] [Number of Citations 63].** [**Rated in Top 25 articles by Scopus]**

* **Bhopale G.M.** Development of vaccine for toxoplasmosis: Current status. Microbes and Infection (2003), 5,457-462**.** **[IF 3.101] [Number of Citations 118].**

MEDICAL ADVOCATES
Toxoplasmosis



Pathogenesis

Journal Papers, Abstracts, and Commentaries

Pathogenesis of toxoplasmosis.
Bhopale GM.
Comp Immunol Microbiol Infect Dis 2003 Jul;26(4):213-22

Vaccine

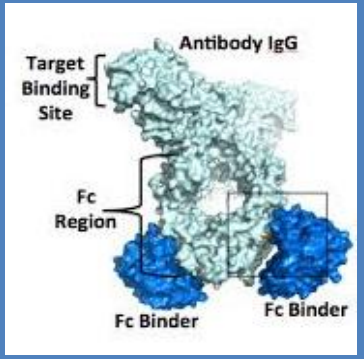
Journal Papers, Abstracts, and Commentaries

Development of a vaccine for toxoplasmosis: current status.
Bhopale GM.
Microbes Infect 2003 Apr;5(5):457-62

Protein A production

*Protein A has potential applications in immunodiagnosis, affinity purification of monoclonal antibodies and in the extracorporeal removal of IgG from plasma.

Protein A is quantitified according to its ability to interact with the FC protein of IgG employing different immunological method.



* We developed ELISA method for estimating the protein A concentration in fermented and extracted samples.

Selected research publications:

Muniaswamy N, **Bhopale G.M**. Ambedkar S.S. and Naik. S.R. Protein A quantitation by competitive ELISA using peniciollinase. Biotechnology Techniques (1996), 10, 779-782. **[Number of Citations 2].**

Immunodiagnosis of *Trypanosoma evansi*

- Trypanosomiasis commonly known as surra caused by *Trypanosoma evansi* is most widely distributed in Asia, Africa and Central & South America affecting domesticated livestock.

An ELISA based test was developed for the detection of IgG antibodies in sera of *Trypanosoma evansi* infected rabbits.

The developed assay was reproducible and simple as end results assessed visually.

The research result outcomes has published

Bhopale G.M. and Naik S.R. ELISA using enzyme penicillinase for the detection of IgG antibodies to *Trypanosoma evansii* in sera of experimentally infected rabbits. Hindustan Antibiotics Bulletin (1998), 40, 47-50

Antidiabetic drugs screening

* Diabetes is one of the most common metabolic disorder in the world and mainly characterized by hyperglycemia. In recent years many medicinally important plants have been reported for their antidiabetic effects.

- The antihyperglycemic activity of *Phyllanthus reticulatus* leaves extract was investigated in normal and alloxan induced diabetic mice.

- The results of the present experiments revealed that leaf extract of *P. reticulatus* has a significant antihyperglycemic activity in normal as well as in alloxan induced diabetic mice.

The research result outcomes has published

Bhopale G. M., Damame M, More S.M. and Nanda R.K. Antihyperglycemic activity of *Phyllanthus reticulates* leaves extract in normal and alloxan induced diabetic mice. Indian Drugs. (2007), 44, 615-617. **[Number of Citations 7].**

Analysis of recombinant DNA products

- Analyzed bulk and formulated recombinant Erythropoietin using electrophoresis techniques for identification and stability studies. Human sera samples were also analyzed by electrophoresis techniques and carryout toxicity studies in laboratory animals.

The research result outcomes has published

Bhopale GM. and Nanda R.K. Recombinant DNA expression products for human therapeutic use. Current Science (2005), 89, 614-622. **[IF - 0.897] [Number of Citations 16]**

Bhopale G.M. and Nanda R.K. Recombinant human erythropoietin: An overview. Indian Drugs (2004), 707- 713, **[Number of Citations 2].**

Bhopale G.M. and Nanda R.K. Analysis of recombinant DNA expression products. Pharma Bioword (2003),104-110.

Invited speaker:

- Delivered lecture on **"Recombinant human therapeutic products - Current status "** during International Conference " Advances in Biotechnology and Bioinformatics " ICABB 2013 held at Pune, Nov 25-27,2013.

- Delivered lecture on "**Recent advances in the development of HIV drugs"** during UGC sponsored one day National seminar " Advances in Microbiology and their impact on public health" organized by the Dept. of Microbiology , J.M. Patel College, Bhandara, Oct 26,2013.

- Delivered guest Lecture on "**Prospects for Hepatitis C Vaccine**" during the International symposium on Management of Vector born viruses and Annual conventional of Indian Virological Society held at International Crop Research Institute for Semi-Arid Tropics, Hyderabad, Feb.7, 2006.

- Delivered guest lecture on "**Recombinant DNA expression products for human therapeutic use**" during seminar "Present Advances in Industrial Pharmaceutical Biotechnology" at Alard College of Pharmacy, Hinjewadi, Pune, Feb.16, 2008.

Development of Narcotic drugs detection and Precursor chemical detection kits

“ Exemplary Performance Award”– Hindustan Antibiotics Limited, Pimpri, Pune, (Jan. 2012), for the Development & commercially manufactured of **Narcotic Drugs Detection Kits and Precursor Chemical Detection Kits** as per the requirement of Narcotic Control Bureau, New Delhi.

HINDUSTAN ANTIBIOTICS LTD.
(A Government of India Enterprise)
PIMPRI, PUNE - 411018,INDIA.

PPC/2011-12

26th January 2012

EXEMPLARY PERFORMANCE AWARD

This Certificate is awarded to ***Dr. Girish M. Bhopale****, Manager (R&D)I/C, Research & Development, on the occasion of Republic Day in recognition of* ***Exemplary Performance carried out by him for the development, modifications and manufacture of Narcotic Drugs Detection kit & Precursor Chemicals Detection kit as per the requirements of Narcotic Control Bureau (Govt. of India) and bagging the discontinued order.***

Management expects that the same spirit will be continued in future too for such meaningful work, beneficial to the organization.

PRAVEEN KUMAR
MANAGING DIRECTOR

Dr.G.M.Bhopale
S.R.No. – 4894
MGR(R&D)
R&D

Other important research publications

Bhopale G.M. and Nanda R.K. Blood coagulation factor VIII: An overview. J. Bioscience, (2003), 28,783- 789**.** **[IF 1.648] [Number of Citations 27].**

Bhopale G.M. and Nanda R.K. Prospects for hepatitis C vaccine. Acta Virologica (2004), 48, 215-221.**[IF 0.644], [Number of Citation 15].**

Bhopale G.M. and Nanda R.K. Emerging drugs for hepatitis C. Hepatology Research (2005), 32, 146-153. **[IF 2.199] [Number of Citations 25].**

[Rated in Top 25 articles by Scopus].

Journal of Infectious Diseases and Therapy

- Bacteriology & Parasitology
- Clinical Microbiology: Open Access
- Virology & Antiviral Research
- Virology & Mycology

Journal of Infectious Diseases and Therapy

- 2nd International Congress on Bacteriology and Infectious Diseases
- 3rd International Conference on Clinical Microbiology & Microbial Genomics

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