



DEPARTMENT OF VETERINARY PARASITOLOGY

College of Veterinary Science & Animal Husbandry

Navsari Centre (Kamdhenu University), Gandhinagar

Eru Char Rasta, Vijalpore, Ta: Jalalpore, Dist. Navsari - 396450



Teaching Faculty in Department

Sr . No.	Name	Designation	Contact Details	Joining Year in NAU	Qualification	Total Experience	Publications Research Papers
1	Dr. J.B. Solanki	Professor & Head	9428488224 solankijb@kamdhenuuni.edu.in	2012	Ph.D.	23 Years	Research Papers: 39 Books/Booklets: 2
2	Dr. Niranjankumar	Associate Professor	8320415367 niranjankumar@kamdhenuuni.edu.in	2009	Ph.D.	12 Years	Research Papers: 30 Books/Booklets: 2

ABOUT THE DEPARTMENT

The animal parasites cause morbidity and mortality in wide variety of animals and thus limit the productivity of livestock sectors. Under the aegis of Veterinary Parasitology, the knowledge pertaining to different types of parasite and its diseases is helpful in improving the productivity of animals. The Department of Veterinary Parasitology came into existence during establishment of College of Veterinary Science and Animal Husbandry, Navsari phase I with the recruitment of one Assistant Professor in March 2009.

Research Projects (External agency / Institutional project)

- **GOG Plan Scheme (Running):** Establishment of regional animal disease diagnosis and research laboratory (From June-2012 to continue).
- **Departmental research schemes (Completed):**
 1. Study on prevalence of bacterial and parasitic causes of diarrhoea in bovines in Navsari district.
 2. Study on prevalence of important parasitic pathogens of fowl in and around Navsari district of south Gujarat.

3. Evaluation of gene specific primer sets in the molecular detection of *Anaplasma* organism in bovine.
4. Survey of gastro-intestinal parasites in captive animals at Surat Municipal corporation zoo.
5. Development of plastination technique for long term preservation of macroparasites.
6. *In-vitro* screening of indigenous medicinal plants for their acaricidal activity against the bovine ticks.
7. Molecular detection of theileriosis and anaplasmosis in bovine.

Publications:

• **Compendium:**

1. Kalyani, I.H., Solanki J.B., Sharma, K.K and Patel D.R. (2015). Strategies, approach and preparedness of veterinarians in control of emerging and re-emerging zoonoses.
2. Solanki J.B., Kumar, N. and Patel D.C. (2015). Improvement of animal health by exploiting novel diagnostic and control approaches for insidious parasitic diseases

• **Research/Review Papers:**

1. Kumar, N., Rao, T.K.S. Varghese, A. and Rathor, V.S. (2013). Internal parasite management in grazing livestock. *J. Parasit. Dis.*, 37(2): 151-157.
2. Patel, J.M., Patel, D.R., Mavadia, S.V., Solanki, J.B., Vihol, P.D., Sharma, K.K., Trangadia, B.J. and Kalyani, I.H. (2015). Clinicopathological investigation of an outbreak of peste des petits ruminants in small ruminants in South Gujarat, India. *J.Vet.Pathol.* 39 (1): 20-23.
3. Solanki, J.B., Kumar, N., Varghese, A., Thakre, B.J. and Puri, G. (2015). Prevalence of gastrointestinal parasitism in poultry in and around Navsari area of South Gujarat. *Livest. Res. Int.*, 3(1): 28-30.
4. Kumar, N., Jadav, M., Bhupamani, D. and Solanki, J.B. (2015). Staining of platyhelminthes by herbal dyes: An eco-friendly technique for taxonomist. *Vet. World.* 8: 1321-1325.
5. Thakre, B.J., Solanki, J.B., Kumar, N. and Varghese, A. (2016). Haematological changes in bovine cryptosporidiosis. *Indian Vet. J.*, 93 (06): 31-33.
6. Kumar, N., Sharma, K.K. and Varghese, A. (2016). Kinetics of *Fasciolagigantica* antibody response in naturally infected bovine ensuing levamisole and oxclozanide combination therapy. *J. Ani. Res.*, 6(3): 393-399.
7. Varghese, A., Raina, O.K., Chandra, D., Mirdha, B.R., Kelawala, N.H., Solanki, J.B., Kumar, N., Ravindran, R., Arun, A., Rialch, A., Lalrinkima, H., Kelawala, R. and Samanta, S. (2017). Sero-detection of *Toxocaracanis* infection in human with *T. canis* recombinant arginine kinase, cathepsin L-1 and TES-26 antigens. *Acta Parasitol.*, 62(4): 775-778.
8. Kumar, N., Varghese, A. and Solanki, J.B. (2017). Seroprevalence of *Fasciolagigantica* infection in bovines using cysteine proteinase dot enzyme-linked immunosorbent assay. *Vet. World*, 10(10): 1189-1193.
9. Kumar, N., Das, B., Solanki, J.B., Jadav, M.M. and Menaka, R. (2017). Plastination of macroparasites: An eco-friendly method of long-term preservation. *Vet. World*, 10(11): 1394-1400.
10. Das, B., Kumar, N., Jadav, M.M., Solanki, J.B. and Rao, T.K.S. (2017). Physio-biochemical parameters: a potential tool for target-selective treatment of haemonchosis in the small ruminants. *Trop. Anim. Health Prod.*, 49: 1577-1589.

11. Thakre, B.J., Solanki, J.B., Kumar, N. and Vargese, A. (2017). Comparative evaluation of conventional staining method and enzyme linked immunosorbent assay kits for the detection of bovine cryptosporidiosis. *Indian J. Anim. Res.*, 51(5): 916-921.
12. Sorathiya, L.M., Fulsoundar, A.B., Rao, T.K.S., Kumar, N. (2017). Prevalence and risk factors for gastrointestinal parasitism in traditionally maintained goat flocks of South Gujarat. *J. Parasit. Dis.*, 41(1):137-141.
13. Patel, M., Kumar, N., Rathod, P. and Tyagi. K. (2017). Incidence and haematological changes in haemoprotozoan infections in bovines of South Gujarat. *Indian J. Vet. Sci. Biotech.*, 13(2): 62-66.
14. Jadav, M.M., Kumar, N., Das, B. and Solanki, J.B. (2018). Immunodiagnostic potency of homologous antigens for natural *Paramphistomum epiclitum* infection in small ruminants in plate and paper enzyme linked immunosorbent assay. *India. Indian J. Anim. Res.*, 52(1): 83-91.
15. Das, B., Kumar, N., Jadav, M.M. and Solanki, J.B. (2018). Immunodiagnostic potency of homologous antigens for natural *Haemonchus contortus* infection in small ruminants in plate and paper enzyme linked immunosorbent assay. *Indian J. Anim. Res.*, 52 (4) 2018 : 591-598
16. Jadav, M.M., Kumar, N., Das, B. and Solanki, J.B. (2018). Morphological and molecular characterization of *Paramphistomum epiclitum* of small ruminants. *Acta Parasitol.*, 63(3): 586-594.
17. Patel, H.K., Patel, M.D., Kalyani, I.H., Kumar, N., Tyagi, K.K. and Sorathiya, L.M. (2018). Incidence of anaplasmosis in buffaloes in and around Navsari and efficacy of diagnostic tests. *Indian J. Vet. Sci. Biotech.*, 14(1): 17-21.
18. Patel, M.D., Patel H.K. and Kumar N. (2018). Clinico and hemato-biochemical studies on anaplasmosis in buffaloes. *Intas Polivet.*, 19(2): 231-235.
19. Patel, D.C., Solanki, J.B. and Kumar, N. (2019). Risk factors associated prevalence of hard tick in large ruminants of coastal areas of South Gujarat, India. *Indian J. Anim. Res.*, 53(11): 1514-1517.
20. Kumar, N., Solanki, J.B., Varghese, A., Jadav, M.M., Das, B., Patel, M.D., Patel, D.C. (2019). Molecular assessment of *Anaplasma marginale* in bovine and *Rhipicephalus (Boophilus) microplus* Tick of Endemic Tribal Belt of Coastal South Gujarat, India. *Acta Parasitol.*, 64(4):700-709.
21. Kumar, N., Solanki, J.B., Shil, P., Patel, D.C. Meneka, R., Chaurasia, S. (2019). Dry preservation of *Toxocara vitulorum* by plastination technique, *Vet. World*, 12(9): 1428-1433.
22. Patel, D.C., Solanki, J.B., and Kumar, N. (2020). *In-vitro* Detection of acaricidal resistance status of *Rhipicephalus (Boophilus) microplus* against commercial preparation of delta-methrin in coastal areas of South Gujarat, India. *Ind. J. Vet. Sci. and Biotech.*, 16(1): 32-36.

:: ACHIEVEMENTS ::

AWARD:

1. Dr. Niranjana Kumar awarded with Prof. M.B. Mirza young scientist award by Indian Society of Parasitology in 2013.

RECOMMENDATIONS TO SCIENTIFIC COMMUNITY:

1. The msp5 gene primers (forward: 5'-gtgttctctgggtactcctatgtg-3' and reverse: 5'-AAGCATGTGACC GCT GAC AAA C-3') are useful for specific detection of *Anaplasma marginale* in bovines with 576 bp amplicon using PCR".

2. The cytochrome b gene primers (Forward 5'- tttggaggccaaacagttgg - 3': Reverse 5'- cctgccattgccaaaagtcc- 3') are useful for the specific detection of *Theileria annulata* in bovine with 401 bp amplicon using PCR.
3. The *Anaplasma marginale* is distributed in infected whole, anterior and posterior half of the body of *Rhipicephalus (Boophilus) microplus* and also in its eggs, indicative of transovarian transmission.

:: FUTURE PLANS ::

Research in following areas

1. Epidemiological studies of parasitic infections of South Gujarat of economically important parasitic diseases.
2. Use of the marker gene for the species level identification of the parasites of veterinary importance.
3. Standardization and validation of conventional, immunological and molecular parasitological in order to identify the parasitic disease at an early stage.
4. Development of integrated control measures employing chemotherapy, chemo or immuno prophylaxis, managemental practices and biological control techniques for sustainable control of parasitic diseases.
5. In vitro evaluation of locally available medicinal plant as candidate agent for the development of anti-parasitic drugs.



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FACULTY PROFILE

Name	Dr. J.B. Solanki	
Designation	Professor & Head	
Qualification	Ph.D. (Veterinary Parasitology)	
Contact No.	9428488224	
Email ID	solankijb@kamdhenuuni.edu.in	
Joining date	10-11-1997 in GAU 24-01-2012 in NAU	
Professional Experience	23 Years	
Job profile	Teaching, Research, Extension	
Publication	Teaching Manual: 10	Books/Booklets: 2
	Review Papers: 2	Lead Papers: 4
	Research Papers: 39	Vernacular Articles: 14
	Abstracts: 38	Scientific Recommendations: 3
Research Scheme	Co-PI- Establishment of regional animal disease diagnosis and research laboratory (From June-2012 to continue).	
Competence building	Summer School/Winter School/CAFT: 1	
	Seminar/Symposium/Conference: 30	
	Short courses/Training/Orientation/Workshop : 5	
Professional Membership	Indian Association for the Advancement of Veterinary Parasitology (IAAVP)	
	Alumni Association of Veterinary College Anand (AAVCA)	
	All Gujarat Veterinarians' Social Security Trust (AGVSST)	
	Gujarat Veterinary Association (GVA)	
	The Gujarat Association of Agricultural Sciences (GAAS)	





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Name	Dr. Niranjan Kumar	
Designation	Associate Professor	
Qualification	Ph.D. (Veterinary Parasitology)	
Contact No.	8320415367	
Email ID	niranjankumar@kamdhenuuni.edu.in	
Joining date	23-03-2009	
Professional Experience	12 Years	
Job profile	Teaching, Research, Extension	
		
Award	Prof. M.B. Mirza young scientist award by Indian Society of Parasitology (2013)	
Publication	Teaching Manual: 10	Books/Booklets: 2
	Review Papers: 3	Lead Paper: 2
	Research Papers: 30	Vernacular Articles: 3
	Abstracts: 35	Scientific Recommendations: 3
Research Scheme	Member- Establishment of regional animal disease diagnosis and research laboratory (From June-2015 to continue).	
Competence building	Summer School/Winter School/CAFT/Orientation: 3	
	Seminar/Symposium/Conference: 35	
	Short courses/Training: 2	
Professional Membership	Indian Association for the Advancement of Veterinary Parasitology (IAAVP)	
	The Indian Society for Parasitology (ISP)	
	Indian Association of Veterinary Public health Specialists (IAVPH)	
	Indian Association for the Advancement of Veterinary Research (IAAVR)	
	Indian Society for Sheep and Goat production and Utilization (ISSGPU)	
	All Gujarat Veterinarians' Social Security Trust (AGVSST)	
	Gujarat Veterinary Association (GVA)	

NON TEACHING STAFF::

Name	Kajal V. Ghetiya	
Designation	Laboratory Technician	
Qualification	B.Sc., DMLT	
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:: CONTACT US ::

Professor & Head

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Photo Gallery



Parasites' Museum



UG laboratory



UG laboratory



UG laboratory



PG laboratory



ASCAD seminar



ASCAD seminar



UG teaching



VCI inspection team visit



VCI inspection team visit



ICAR inspection team visit