

Curriculum Vitae

Dr. SACHIN MANIKRAO KUMTHEKAR

Present working address & post held:

Associate Professor & Co-course director

Clinical Pathology,

Pathobiology academic program,

School of Veterinary Medicine,

SGU (West Indies),

Ph.No. 1-473-4444175 (Ext, 3673),

Cell No. 1-473-4180061

E-mail: skumthekar@sgu.edu

1. Objectives:

To broaden my knowledge and skills in the disciplines of veterinary pathology and clinical pathology, and in so doing, advance my career, and contribute to the development of this university.

2. Educational Qualifications:

Area of research during Master of Science in Veterinary Pathology (MVSc): DESSERTATION.

Title: Immunopathology of Bovine Ocular Squamous Cell Carcinoma

| Sr | Degree | Year | Class & Grade Points | Institute & University/Board | Subjects |
|-----------|---|---------------|---|---|---|
| 1. | B.V.Sc. & A.H. (Equivalent to DVM) | December 1998 | First Class (8.47 /10) | Udgir veterinary college, MAU (Parbhani, INDIA) | All Essential |
| 2. | Master of Science in Veterinary Pathology (MVSc) | November 2001 | First Class With distinct. (8.61 /10) | Bombay Veterinary College, Mumbai.INDIA BSKKV, Dapoli | PATHOLOGY Toxicology, parasitology, zoonoses, biochemistry |

3. Employment History: (Total years of experience : 10 YRS)

| <u>Position</u> | <u>Period</u> | <u>Institute</u> |
|--|-------------------------------|--|
| Associate Professor (Clinical Pathology) | July 2011 till this date | Pathobiology academic program, School of Vet. Medicine St. Georges University, Grenada |
| Co-course director for Clinical pathology | September 2010 till this date | Pathobiology academic program, School of Vet. Medicine St. Georges University, Grenada |
| Assistant Professor (Clinical Pathology) | June 2008 to June 2011 | Pathobiology academic program, School of Vet. Medicine St. Georges University, Grenada |
| Instructor (Clinical Pathology) | June 2006 To June 2008 | Pathobiology academic program, School of Vet. Medicine St. Georges University, Grenada |
| Teaching Associate (Clinical Pathology) | Aug 2004 to June 2006 | Pathobiology academic program, School of Vet. Medicine St. Georges University, Grenada |
| Research Associate (Veterinary Pathology) | 2001 to July 2004 | Department of veterinary Pathology, Bombay veterinary College, Mumbai INDIA |

4. Professional Experience:

a) **At SVM, SGU, Grenada:** (From 2004 to this date)

Teaching: (Courses taught)

- PTBH532 Veterinary clinical pathology 4 credits DVM Term-4
- LAMS531 Laboratory Diagnostics 1 credit DVM Term-6
- PTBH532 Veterinary clinical pathology 4 credits DVM Term-3
- During Aug 2004 to Dec 2004, worked in Parasitology section, at Purdue University, Indiana, USA and assisted Dr. Pinckney in preparing laboratory sessions in that discipline.

Notes preparation:

- Co-author for Clinical pathology notes for DVM students (Term-4) at St. Georges University, Grenada

Diagnostic Laboratory:

- Actively involved in daily diagnostic services for clinical pathology. Analysis & interpretation of various types of samples e.g. blood, serum, urine, cytology etc.
- Very good experience of handling various sophisticated lab equipments for automated CBC, biochemistry, coagulation & acid-base analysis.
- Contributed in the preparation of centralized sample submission system, data storage etc. for the future development of the Veterinary Diagnostic Laboratory. Special interest in cyto-pathology

Advisory work:

- Worked as an Academic advisor for DVM students from different terms.

b) At Bombay Veterinary College, Mumbai (India): For 3 years

- **Worked as a Research Associate** on the project “Metabolic diseases in cattle”. & performed biochemical analysis on the cattle from the area of Konkan region of India, collected data and towards development of a Metabolic Profile Testing system.
- **Worked** in the Pathology department, Bombay veterinary College, actively involved in routine diagnostic and laboratory activities. Daily analysis of blood, urine and biochemistry samples from various sources.
- **Conducted** hundreds of necropsies on several animal species including dogs, cattle, sheep, goats and many wild animals.
- **Taught:** practical classes for clinical pathology, general pathology and systemic pathology for undergraduate students (BVSc).

6. Awards, Honors & Scholarships:

- Received honorary membership of the **Phi Zeta Society** (Alpha Delta Chapter, SGU), 2010.
- Received **Young Scientist Award** in the Pathology Conference held at Palampur (India), in September 2002, for the best paper entitled “Immunopathology of Squamous cell carcinoma.”
- Recipient of **Gold Medal** for securing highest C.G.P.A. during B.V.Sc., 1999, INDIA
- Recipient of **ICAR merit scholarship** during BVSc& AH, 1994-1998, INDIA
- Acquired second place in **Merit list** for MVSc admissions in the state of Maharashtra, INDIA.

7. Scientific & academic Training Attendance:

- Successfully completed a 2 credit course , "**Practical Application of Molecular Diagnostic Assay**" (**VSGP -812**), conducted at WINDREF (SGU, Grenada), October 2007
- Seven days training in **PCR techniques**, at Molecular Biology Lab, IVRI, Bangalore (India), 2002.
- Practical training on **High Performance Liquid Chromatography (HPTLC)**, at Anchrom Diagnostics, Mumbai (India), 2001.
- Training in **Educational Methodology & Instructional Technology**, Conducted by National Academy of Agricultural Research Management, Hyderabad (India) , 2003.
- Successfully completed a Short course on **Lets improve teaching**, as a part of faculty development, at SGU, Grenada, 2007.
- **Continuing Education (CE) Programs attended:**
 - Online CE provided by Dechra Laboratories (DechraCE.com), equivalent to 1 hr.
 - Online CE (Clinical Pathology) provided by Abaxis University, equivalent to 4 hrs.
 - Total 24 hrs. of CE sessions attended at NAVC, 2011, Orlando (USA)
 - Online CE provided by IDEXX Laboratories (idexx.com), equivalent to 0.5 hr.

8. Professional Memberships:

- Life Membership:- **Indian Association Of Veterinary Pathologists (IAVP)**
- Life Membership:- **Indian Association for the Advancement in Veterinary Research (IAAVR)**
- **(in process:** Membership for American Veterinary Medical Association, AVMA)

9. Committee Appointments:

- Curriculum Review Committee, SVM, SGU, Grenada. Member, 2009-2012
- Faculty Affairs Committee, SVM, SGU, Grenada, Member, 2009-2012
- Graduate Affairs Committee, Pathobiology Academic Program, SVM, SGU, 2010.
- Judiciary Board for the SVM, SGU, Member, 2010
- **Graduate Faculty Memberships:** Member on Graduate Advisory Committee, Pathobiology Academic Program, SVM, SGU, Grenada
 - (Student) Ross Peterson, for MS in veterinary microbiology, 2010

- (Student) Allison Inga for MS in Veterinary Pathology, 2011
- (Student) Marta Lanza for MS in Veterinary Clinical Pathology, 2011
- (Student) Traci Vogler For MS in Veterinary Pathology, 2011

10. Conference, Workshops, Scientific meetings attended:

- **“Workshop on Recent Advances in Canine & Feline practice”** held at Udgir Veterinary College, INDIA, July 2011
- **North American Veterinary Conference (NAVC)**, January 2011, Orlando, Florida (USA)
- **“Workshop on Recent Advances in wildlife & domestic animal medicine”** held at Udgir Veterinary College, INDIA, July 2010
- **The 24th Biennial Caribbean Veterinary Medical Association International Conference**, held at Grenada (West-Indies), Oct 2006
- **“XVII annual conference of Indian Association Of Veterinary Pathologists (IAVP)”**, held in Akola (India)
- **“XIX annual conference of Indian Association Of Veterinary Pathologists (IAVP)”**, held in Palampur (India)
- Annual workshop on **“Recent Advances in Laboratory Science & Technology”**, organized by Maharashtra Institute of Science & Technology, Mumbai (India).
- **XVII Annual convention of Indian association of veterinary anatomists & national symposium**, held at Mumbai (India), in November 2009.

11. RESEARCH :

A) Research Interests:

- Veterinary oncology
- Squamous cell carcinoma in bovines.
- Ehrlichia and other Rickettsial infections.
- Johne’s disease and other infections of small ruminants.
- Cytopathology in veterinary practice.

B) Research Projects: (At St.Georges University, Grenada, W.I.)

| N o. | Title | Sponsor | Period | Amount | P.I. | Role | Students supported |
|------|---|-----------|-----------|----------|-------|------|--------------------|
| 1 | Comparative study on Paratuberculosis in ruminants from Grenada & Carriacou | SRGI, SGU | 2009-2011 | USD 3000 | ----- | P.I. | One (Completed) |

| | | | | | | | |
|---|--|--|-----------|----------|---|-----------------|--------------------|
| 2 | Hematological & Biochemical changes in dogs affected with Transmissible venereal Tumor (TVT) from Grenada | SRGI, SGU | 2010-2012 | USD 3000 | _____ | P.I. | One |
| 3 | Seroprevalence of Canine Leishmaniasis & American Trypanosomiasis in dogs from Grenada, West Indies. | SRGI SGU | 2011-2012 | USD 4000 | _____ | P.I. | Two (Completed) |
| 4 | Serological studies on Brucellosis and Toxoplasma in Sheep & Goats from Grenada | SRGI, SGU | 2010-2011 | USD 3000 | Dr.A. Chikweto | Member | Completed |
| 5 | Coxiella & Chlamydomphila in sheep and Goats | SRGI, SGU | 2010-2011 | USD 3000 | Dr. D. Stone | Co-investigator | Completed |
| 6 | The use of doxycycline in asymptomatic dogs with positive <i>Ehrlichia</i> antibody titers. | SRGI, SGU | 2008-2010 | USD 3000 | Dr.M. Lanza | Co-investigator | Completed |
| 7 | Cytogenetic studies on Transmissible Venereal Tumor in dogs from Grenada (World genetic study Project of Dr.Elizabeth Murchinson, UK | SRGI, SGU & World genetic study Project of Dr.Elizabeth Murchinson, UK | 2010-2012 | USD 3000 | Dr.Corrigan/ Dr.Lanza And Dr. Murchinson, UK | Member | Five |
| 8 | Studies on Expression pattern of certain molecular tumor markers in the tumors of dogs & cats in Grenada, W.I. | SRGI, SGU | 2010-2012 | ----- | Dr.R. Pawaiya | Co-investigator | Project underway |
| 9 | Seroprevalence of Canine Brucellosis in dogs from Grenada, West Indies. | SRGI, SGU | 2011-2012 | USD 5813 | Dr. K.P. Tiwari | Co-investigator | (Completed) |

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|----|--|-----------|-----------|----------|--------------|------------|-------------------|
| | | | | | | | |
| 10 | Seroprevalence of PRRS in pigs in Grenada (WI) | SRGI, SGU | 2012-2013 | USD 2349 | Dr.kumthekar | P.I | Recently approved |

Research Projects: (At Bombay Veterinary College, INDIA.)

| N o. | Title | Sponsor | Period | Amount | P.I. | Role |
|------|---|---|--------------------|----------------------------|----------------------|---------------------------------------|
| 1 | Metabolic & Nutritional Diseases in Cattle in Konkan Region of India | Indian Council of Agricultural Research, INDIA | 2001 - 2004 | Equi. to USD 25000 | Dr.P.S.Lonkar | Research Associate |
| 2 | Immunopathology and Epidemiology of Bovine Squamous Cell Carcinoma with sp. Ref to eye and horn cancer. | Indian Council of Agricultural Research, INDIA | 1999 - 2001 | Equi. to USD 40,000 | Dr.R.S.Nehete | As a Pathology Resident (MVSc) |

Relevant skills and accomplishments:

Research / innovation:-

- Successfully separated and characterized protein fractions from squamous cell carcinoma (SCC) antigens from bovine eye cancer cases by SDS-PAGE electrophoresis.
- Researched assessment of cell mediated & humoral immune responses in cattle affected by squamous cell carcinoma affected cattle

12. Publications and Presentations :

Presentations at the scientific meetings (National, international, Local meetings)

1. **(POSTER) : A. Chikweto**, S.Kumthekar et al; Transmissible Venereal Tumor (TVT) in Extragenital tissues of dogs in Grenada, 2011. Presented at Annual ACVP meeting (46th), Dec 3-7, 2012, Nashville, Tennessee (USA)
2. Detection of antibodies against Paratuberculosis (Johne's disease) in sheep & goats from Grenada and Carriacou using ELISA technique, SGU research day program, 2010
3. Characteristics of Transmissible Venereal Tumors in Grenada, west indies, Presented at World Veterinary congress, held at Vancouver, Canada, July 2008

4. Extragenital occurrence & metastasis of Transmissible Venereal Tumor in dogs in Grenada, Annual Clinical Meeting, SVM, SGU, 2008.
5. **M.V.Sc. dissertation Abstract:** Immunopathology of ocular squamous cell carcinoma in bovines, Indian Journal Of Veterinary Pathology, 26 (1&2): 102, 2002 (Presented at the XVII annual conference of IAVP, Sept. 2002, India, which received **Young scientist award**)
6. Veterinary cytological findings and some histological comparisons, 24th Biennial Caribbean Veterinary Medical Association International Conference, Grenada, Nov 2006

PUBLICATIONS

Research articles:

1. Exposure to Zoonotic abortifacients among sheep and goats in Grenada, Diana M Stone, Sachin Kumthekar et al; *** Recently submitted to *Journal of Animal and Veterinary Advances, 2012*
2. Seroprevalence of Toxoplasma gondii in pigs, sheep, goats and cattle from Grenada and Carriacou, West Indies. A.Chikweto, S.Kumthekar, B.Nyack, et al; *J.Parasitology*,; 97(5): 950-951, 2011
3. Seroprevalence of Infectious Bronchitis Virus in birds in Grenada, Arathy sabarinath, Gopalkrishnana P. Sabrinath, Keshaw Tiwari, Sachin M. Kumthekar et al. *International Journal of Poultry Science, 10 (4): 266-268, 2011*
4. Virological and Serological Surveillance of Avian Influenza virus in Birds of Grenada, Arathy sabarinath, Gopalkrishnana P. Sabrinath, Keshaw Tiwari, Sachin M. Kumthekar et al., *International Journal of Poultry Science, 10 (8): 579-582, 2011*
5. Doxycycline treatment of asymptomatic dogs seropositive for *Ehrlichia canis*, Marta Lanza-Paerea, Sachin M. Kumthekar et al; *West Indian Veterinary Journal, 9 (2) 11-13, 2009.*
6. Current trends in Diagnosis of mastitis in veterinary practice in India, *International Journal of cow Science, 1(2): 77-79, 2005*

Abstracts :

1. Genital and Extragenital Canine Transmissible Venereal Tumor in Dogs in Grenada, West Indies, A.Chikweto, S.M. Kumthekar et al; 2011 ACVP abstracts, Veterinary

Pathology (Online), Diagnostic Pathology 47-129, Abstract no. 66,

<http://vet.sagepub.com/content/48/6/E1>

(Also in Proceedings of 46th Annual ACVP meeting, 2011)

2. Proximity of cattle farm to a wildlife-livestock interface as a predictor of prevalence of selected hemoparasites in farmed cattle, Richard M Kabusu, Calum Macpherson, Sylvia N. Muwanga, Sachin M Kumthekar et al. Annual Meeting Proceedings of American Association of Veterinary Parasitologists, 56th annual meeting, July 16th-19th, 2011. PP:80
3. Characteristics of Transmissible Venereal Tumors in Grenada, West Indies, Proceedings of 29th World veterinary congress, held at Vancouver, Canada, July 2008
4. Veterinary cytological findings and some histological comparisons, West Indian Veterinary Journal, vol. 6 No.1 Nov. 2006, pp 13
5. Blood values of dogs with microfilariasis, West Indian Veterinary Journal, vol. 6 No.1 Nov. 2006, pp 14
6. Hematology and Biochemistry reference values for small ruminants in Grenada, West Indies, West Indian Veterinary Journal, vol. 6 No.1 Nov. 2006, pp 14
7. Assessment of cell mediated immune response (CMI) in Bovine Ocular Squamous Cell Carcinoma, Kumthekar S.M et.al, SOUVENIR, XVII annual conference of IAVP, Sept. 2002, pp. 70
8. Studies on mortality in Emu in captivity, SOUVENIR, XVII annual conference of IAVP, Dec. 2000, pp. 139
9. A case of ascariasis in Bonnet monkey (*Macaca radiata*), SOUVENIR, XVII annual conference of IAVP, Sept. 2002, pp. 63
10. Study of canine neoplasms at SPCA hospital in Mumbai, SOUVENIR, XVII annual conference of IAVP, Sept. 2002, pp. 45
11. Studies on *Spirocerca lupi* infestations in canines, SOUVENIR, XVII annual conference of IAVP, Dec. 2002, pp. 86
12. Studies of pathological conditions in canines, SOUVENIR, XVII annual conference of IAVP, Dec. 2002, pp. 45
13. Studies of pathological conditions in broilers, SOUVENIR, XVII annual conference of IAVP, Dec. 2002, pp. 86

Books/ Electronic/ Digital Publications:

1. Interactive CD “**Post mortem examination of domestic animals**” for field veterinarians in INDIA, 2003-04, as an Editor-member.

13. Continuing Education (CE) and Distance Learning (DL) activities provided:

A. Continuing Education Presentations (International levels):

1. Laboratory Diagnostic methods for selected Endocrine Disorders in Dogs.
Presented as a part of lecture series for the final year students & local veterinarians at Udgir Veterinary college (INDIA), July 2011
2. Diagnostic Cytology: a simple, yet very useful tool for the field veterinarians.

Presented as a part of lecture series for the final year students & local veterinarians at Parbhani veterinary College (INDIA) & Udgir Veterinary college (INDIA), July 2010
3. Exotic pet medicine: emerging field for the veterinary graduates.
At Parbhani Veterinary College (INDIA), July 2010

B. Distance Learning Programs:

- Active member of a committee for the development of **Distance Learning Programme for field veterinarians in India**. (In collaboration with ISNAR, the Hague, Netherlands and Commonwealth of Learning Center, Canada). Under this project, contributed actively in preparation interactive CD “**Post mortem examination of domestic animals**” for field veterinarians, 2001-2004

References:

1. Dr. Rhonda Pinckney, MS, DVM, PhD
Professor, Veterinary Parasitology,
Pathobiology Academic Program,
SVM, SGU, (Grenada)
E-mail: rpinckney@sgu.edu
2. Dr. Diana Stone, MPH, DVM, PhD.
Professor, Veterinary Immunology and Veterinary Public health,
Pathobiology Academic Program,
SVM, SGU, (Grenada)
E-mail: dstone@sgu.edu
3. Dr. Sean Owens, DVM, Diplomate ACVP
Assistant Prof. Clinical Pathology,
Medical Director, UC Davis Veterinary Blood Bank,
Medical Director, UC Davis Veterinary Regenerative Medicine Lab,

Chief of Service, Clinical pathology
Associate Hospital Director for Laboratory Services,
UC Davis School of Veterinary Medicine.
sdowens@ucdavis.edu
530-752-6160

4. Dr. Hugh Larkin, MVB, PhD, MRCPPath, MECVCP, MRCVS

Ex-Professor,
Clinical Pathology,
Pathobiology Academic Program
SVM, SGU, (Grenada)
E-mail: hlarkin@sgu.edu, hularkin@gmail.com

5. Dr. P.S.Lonkar,

(Retd.) Director of Extensión,
Maharashtra Fisheries & Animal Sciences University,
Nagpur, (India) E-mail : pslonkar@yahoo.com, pslonkar@yahoo.co.in

I do hereby declare that all the statements made in the CV are true, complete and correct to the best of my knowledge and belief.

Place :

Date :

(S.M.Kumthekar)