

CURRICULUM VITAE

DR. S.K. KASHYAP
Professor

1. Name : SUDHIR KUMAR KASHYAP
2. Father's Name : Shri S.C. Kashyap
3. Date of Birth : 5 May, 1958
4. Nationality : Indian
5. Religion : Hindu
6. Marital status : Married
7. Address -Official : Dept. of Vet Microbiology & Biotechnology
College of Veterinary and Animal Science
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Animal Sciences, Bikaner
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8 Educational Qualifications:

Examination/ Degree	Year of passing	Subject	Marks/ OGPA	Institution/ University
Secondary	1973	Science-Biology	77.3 %	Board of Sec. Edu, Raj.
Higher Sec.	1974	Science-Biology	74.0 %	-do-
1 st Year T.D.C.	1975	Science-Biology	72.4 %	Rajasthan Uni.
BV.Sc. & A.H.	1979	Vet.Sci./Ani.Hus.	3.83/4.00	Uni.of Udaipur
M.V.Sc.	1982	Vet.Microbiology	4.00/4.00	-do-
Ph.D.	1992	Molecular Biology	excellent	Academy of Sci.USSR, Moscow

9. Professional Experience

Post/ designation	Institution	Period From-to	Employer	Nature of duties
Assistant Professor	College of Vety & Anim. Sci. Bikaner	9/2/1983- 8/2/1996	Vice-Chanc. Raj Agri. University	Teaching, Research, Extension
Associate Professor	-do-	9/2/1996- to 08-02-2004	-do-	-do-
Professor	-do-	9/2/2004 to 31-05-2018	Vice- Chanc.Raj Uni Vet Ani Sci. Bikaner	-do-
Head of the Department	-do-	1/7/1999-to 31-05-2018	-do-	-do-and Admini.
Director, Student Welfare	RAJUVAS	1-7-2015 to 31-06-2016	-do-	Student welfare
Dean, Post Graduate Studies	RAJUVAS	1-7-2016 to 31-05-2018	-do-	Post graduate studies regulation

10. Scholarship/awards: Received ICAR junior research fellowship for pursuing M.V.Sc. degree.
Received Indo-Soviet Govt. fellowship for doing Ph.D. in the field of Molecular Biology.

11. Research Experience:

Work done for M.V.Sc. Degree:

Title of the thesis: 'Studies on bovine immunoglobulin's in cross-bred animals' Isolated and purified bovine IgG1, IgG2 and IgM by ion- exchange chromatography, prepared monospecific antisera against IgG1, IgG2 and IgM immunoglobulin's and estimated levels of these immunoglobulins in bovine sera by single radial immunodiffusion (SRID) test.

Work done for Ph.D. degree:

Title of the thesis: 'Synthesis and expression in *Escherichia coli* of genes coding human granulocyte colony stimulating factor'.Synthesized two variants of granulocyte colony stimulating factor(177 and 174 amino acids long) by chemico-enzymatic method.The two genes were cloned in laboratory designed plasmid vector. Prepared a series of expression vectors for maximizing the expression of the hG-CSF in *E.coli*.

Carried out DNA sequencing by Sangers and Maxam-Gilbert methods. Applied Polymerase chain reaction for site directed mutagenesis and DNA sequencing.

Major advisor: 13 M.V.Sc. students.

Title of theses:

- 1- 'Bacterial determinants of caprine mastitis in Rajasthan'-1997
- 2- 'Cultural, metabolic, toxigenic, biochemical analyses and drug sensitivity of mastitis *Staphylococcus aureus*.'-1997
- 3- 'Biological activity of camel serum complement in classical and alternative pathway.'-1997
- 4- 'Evaluation of various serological tests for the diagnosis of brucellosis in cattle.'-1999
- 5- "Biochemical, Pathogenicity and immunoserological studies on *Escherichia coli* 'O78' is olates of sheep"-2002
- 6- 'Bacterial determinants of repeat breeding in cattle'-2002
7. 'Bacteriological and serological studies on *Mycobacterium par tuberculosis* in sheep'-2005
- 8- 'Comparative studies of coagulase positive and coagulase negative *Staphylococcus aureus* by biotyping, resistotyping and molecular typing'-2006
- 9- 'Antimicrobial activity of some indigenous plant extracts'-2006
10. Molecular diagnosis of common bacterial pathogens associated with Bovine Mastitis-2012
11. Development of rapid and sensitive test for identification of bovine mastitis associated pathogens-2016
12. Multiplex Chain Reaction for identification of bovine mastitis associated pathogens'-2017
13. Identification of bovine mastitis associated pathogens by conventional and Mass spectrometry methods'-2018

Major Advisor:

- Two-M.Sc. (Animal Biotechnology):** 1. "Genetic characterization and diversity study of four indigenous cattle breeds rathi, tharparkar, gir and kankrej of Rajasthan" -2010
2. "Assessment of genetic diversity in indigenous cattle breeds of Rajasthan using microsatellite markers"- 2013

Two: M.V.Sc. (Animal Biotechnology):

1. "DNA Fingerprinting of Mice using Molecular Markers"
2. **A1 and A2 Polymorphism in beta-casein gene and lactoferrin gene fragment in indigenous cattle breeds**

Major advisor of Ph.D. candidate: two (Vet Micobiology),

Title of the thesis:

1. 'Clonal relationship amongst the strains of *Escherichia coli* of domestic animals and poultry'-2004
2. Genotypic Characterisation of *Salmonella enterica* and its virulence genes. **2015**

5 (Animal Biotechnology)-

1. Genetic characterization and diversity study of cattle breed through microsatellite and AFLP markers' **2017**
2. Assessment of genetic diversity in indigenous sheep breeds of Rajasthan using molecular markers' **2018**
3. Exploring the polymorphism in beta defensin genes in indian cattle and buffalo breeds' **2018**
4. Isolation, cultivation and characterization of stem cells derived from extraembryonic tissues of equines. **2018**
5. Characterization of myostatin gene in malpura sheep and its association with growth traits..- **2018**

Member of the advisory committee : more than 10 Ph.D. and 25 M.V.Sc. students of other subjects.

Research Project: 1. Student project sanctioned by Dept. of Science and Technology, Rajasthan. Report submitted: Bacterial determinants of caprine mastitis in Rajasthan.

2. State Government Non Plan Research Projects:

(i) Animal Biotechnology Centre

(ii) Incidence and etiology of bacterial diseases of livestock and poultry

(iii) Immunoserological response against viral disease of livestock

3. Associate with Research Project running in Dept. of Food & Nutrition, College of Home Science:

‘Development and quality evaluation of value added products based on pearl millet’ Funded by Government of Rajasthan.

4. Principal Investigator of research Project: **“State level breed confirmation (DNA fingerprinting) Centre”** sponsored by the state Government, Total Budget: 1.4 Crore

5. Principal Investigator of research Project: **‘Surveillance of antibiotic resistance in nonpathogenic bacteria of domestic animals and their surroundings of Bikaner region’** funded by Alliance for prudent Use of antibiotics (APUA): budget: \$ 11,000 each year

6. Principal Investigator: Research project **‘Evaluation of ET-TT vaccine in animals’** PPP with Indian Immunologicals, Hyderabad

7. Principal Investigator: **‘Establishment of Bioinformatics Centre’ total budget: 8.8 Crore**

Other responsibilities and Activities of the College:

1. Officer In charge of :Apex Centre for the Diagnosis, Monitoring and Surveillance of Animal Diseases in Rajasthan., Since July 1, 1999 to 30 April 2002

2. Officer In charge of **Student Counselling Centre and Placement Cell:** from 01.01.2003 for helping the students to attain higher education or employment.

3. **Drawing Disbursing Officer:** since 16.5.2005 of the College

4. **Assistant Superintendent of the Examinations:** worked from time to time

5. Member of the **Library Committee** of the College

6. Acted as the **Chairman of the Inquiry Committees** constituted to enquire into issues related to student problems, staff problems etc.
7. Member of the **Purchase Committee** constituted from time to time
8. Acted as In Charge **Student Elections** of the College and University Student Union
9. Worked as In Charge **Literary & Fine Arts Competitions** of College & Inter College tournaments
10. Member of the **Selection Committee for appointment** of teachers on fixed salary
11. Worked as the **Acting Dean** when the Permanent Dean remained on leave, tour
12. Member of the **UG Admission Board** of the College for counselling and admission
13. Incharge **Judges appointment committee** in Youth festivals
14. Member of the **Inspection Team** for Private Veterinary Colleges for affiliation to the University
15. **DDO and Head of the University Administrative Office since May, 2010**

Other Activities:

1. Member of the Advisory Committee of the Science Club of GD Mundhara Bal Bharati School, Bikaner
 2. **External Examiner & Paper setter** of IVRI, Deemed Uni. Izatnagar, CCSHAU, Hisar, GBPUA&T, Pantnagar, Anand Agri.Uni, Anand, Palampur University, University of Bikaner, GADVet Uni, Ludhiana for UG, M.V.Sc. and Ph.D examination and thesis evaluation.
 3. **Expert** of Public service Commission of Orissa, Rajasthan
 4. **Member of the Advisory Committee** of TNM College of Biosciences, Bikaner
14. **Languages known:** Able to speak read and write: Hindi, English, Russian
15. **Refresher/training programmes attended:**
- (i) Recent advances in **Meat Microbiology** with special reference to Meat Borne Infections and Intoxications. College of Veterinary Science, G.B.Pant Univ.of Agriculture and Technology, Pantnagar. June 11-June 30, 1986.
 - (ii) Summer Institute on **Advances in Veterinary Immunology**. Indian Veterinary Research Institute, Izatnagar. June 2-June 21, 1993
 - (iii) Use of audiovisual aids in teaching of Undergraduate classes. Academic staff College, Raj Agri University, Bikaner. July 15-July 22, 1993
 - (iv) **Faculty Development Programme in Educational Technology**. Tamilnadu Vet. And Ani.Sci.University and NAARM Hyderabad. Madras. March 11-March 20, 1996
 - (v) **Murine Monoclonal Antibody Production**. ICAR advance Centre in Vet. Microbiology, CCS Haryana Agri.University, Hisar. Jan 14-Feb 2, 1997
 - (vi) **IBM Global training on Pedagogy**. IARI, Delhi. June 24-June 25, 1998
 - (vii) **Introduction to computer Applications**. College of Vet. & Ani.Sci., Raj Agri.University, Bikaner. July 27- Aug.8, 2000

(viii) **Polymerase chain reaction based methods for diagnosis.** Dept.of Ani. Biotechnology, Tamilnadu Vet.and Ani.Sci.Univ., Channai. Feb 21-March 7, 2001

(ix) **Agricultural Research Prioritisation Techniques.** Organized by National Academy of Agricultural Research Management, Hyderabad. August 21-27, 2003

Achievements:

Research:

1. Constructed two forms of human granulocyte colony stimulating factor (hGCSF)gene by chemical synthesis method for the first time
2. Prepared expression vectors for the synthesis of the hGCSF genes
3. Developed method for the diagnosis of subclinical mastitis in goats
4. determined optimum conditions for activation of Camel Complement
5. developed method for Genetic fingerprinting of septicemic *E.coli* of sheep
6. undertook ribotyping of *Escherichia coli* isolates of camel, cattle, sheep and poultry
7. carried out Fingerprinting of coagulase positive and coagulase negative *Staphylococcus aureus* isolates associated with mastitis
8. determined antibacterial and antifungal activities of indigenous plants of desert area

- Teaching: 1. Undergraduate, Masters and Ph.D. courses for last thirty five years
 2. Developed courses for P.G. programme in Biotechnology
 3. Actively involved in Student Counselling for their all round development and career selection
 4. Developed courses for Communication skill of the students College.

Resource Generation :

1. Developed and organized Training Programmes for the Students Microbiology and Biotechnology of other colleges of Rajasthan and other states on payment basis.
2. Developed Certificate Courses for the unemployed graduates on payment basis resulting into a receipt of around Rs. 1 lac per year to the University.

Organised: **Organizing Secretary** of International Symposium on “Role of Biotechnology in conserving biodiversity and livestock development for food security and poverty alleviation and XVII Annual Convention of Indian society of Veterinary Immunology and Biotechnology ” from 29-31 December, 2010

PUBLICATIONS

- 1) **S.K.Kashyap**, Beistrov N.S., Boldyreva, E.F., Polykov I.S., Severtsova I.V., Korobko V.G. Chemical enzymatic synthesis and cloning in E.coli of genes coding for human granulocyte colony stimulating factor. *Bioorg.Khim.*(In russian)1992, **18**(1):71-76
- 2) **S.K.Kashyap** and V G Korobko: The biology of human granulocyte colony stimulating factor. *Current science*. 1994, **67**(12):995-1002
- 3) L.N.Shingarova, **S.K.Kashyap**, L.E.Petrovskaya, L.A.Petrenko, Pustoshilova, N.M. S.A.Sinichkina.: Expression of the gene encoding human granulocyte colony stimulating factor in Escherichia coli. *Biotechnology* (in russian)1998, **6**, 24-35
- 4.) Sharma S., **Kashyap S.K.**, & Sharma K.N.(1999): Bacterial status of mastitic and normal milk samples of goats. *Indian Journal of Animal Science*. 69:229-230
- 5) Sharma S., **Kashyap S.K.** & Sharma K.N. (1999): Antibigram of bacterial isolates of caprine mastitis. *Indian Journal of Dairy Science*: 52(2):126-128
- 6). Chopra V.& **Kashyap S.K.** (2001) Optimal conditions for assay of hemolytic component of camel complement in classical pathway. *Indian Journal of Animal science*.:71:1016-1020
- 7) Chopra V. & **Kashyap S.K.**(2001) Determination of optimal in vitro conditions for camel alternative complement pathway assay. *Indian Journal of Animal Science*. 71:1021-10243
- 8) Yadav G.,& **Kashyap S.K.**(2003): Efficacy of different antibiotics against isolates from cervicovaginal mucus of repeat breeding Holstein friesian cross-bred cows. *Indian J.Comp.Microbiol.Immunol.Infect. Dis*. 24:107-108.
- 9). Kumar, N., **Kashyap, S.K.**, Maherchandani, S. and Sharma, M. M. (2004) Preparation and evaluation of inactivated whole cell vaccine against septicemic *E. coli* O78 in sheep. *Annals of Biology*. 20:7-12
- 10).Kumar, N., Sharma, R.A., **Kashyap, S.K.**, Sharma, S. Maherchandani, S. and Sharma, M.M. (

2004) DNA Fingerprinting of Septicaemic and diarrhoeic *E. coli* O 78. *Indian J. Microbiology*.44:63-66

11). Sharma D.K., Soni S.S., **Kashyap S.K.**, & Shringi B.N. (2004): Seroprevalence, antibiotic sensitivity pattern and transfer of plasmid coded characters of *E.coli* associated with calf diarrhoea. *Indian Vet.J.*:81:6-8

12) Kumar, N., **Kashyap, S.K.**, Maherchardani, S., Sharma, M.M., Sharma, S. & (2005) Characterization of *E. coli* strains associated with septicemia in sheep. *Ind. Vet. J.* 82:6-8

13) D.K.Sharma, S.S.Soni, **Kashyap, S.K.** (2005) Characteristics of *Escherichia coli* strains associated with calf diarrhea . *Indian Vet.J.* 82(12):1241-43

14) Suchsmita Chatterjee and **S.K.Kashyap**(2005) Quantitative analysis of haemolytic strains of *E.coli* with different RBCs. *Vet. Practioner*. 6(1):6-8

15) Shuchismita Chatterjee and **S.K.Kashyap** (2005) Pathogenicity testing of *E.coli* isolates of livestock and poultry. *Vet. Practioner*. 6(2):105-108

16) Shuchismita Chatterjee and **S.K.Kashyap** (2006) Haemolytic *Escherichia coli* strains of livestock and poultry. *Indian vet. J.* 83(3):254-55

17) Shuchismita chatterjee and **S.K.Kashyap** (2006) Serogroups of *Escherichia coli* isolated from camel,cattle, sheep and poultry. *Indian vet J.* 83:477

18) Shuchismita Chatterjee and **S.K.Kashyap** (2006) Typing of *Escherichia coli*: a review. *Vet. Practioner* 7: 80-85

19) Surendra Singh, H. Dadhich, K.K.Sharma and **S.K.Kashyap** (2004) : Bacteriological study of cystic endometrial hyperplasia pyometra complex in canines. *Indian J.Comp.Microbiol.Immunol.Infect.Dis.*:25(2): 140-141

20) Shuchismita Chatterjee, S.K.Ghorui and **S.K.Kashyap** (2006): Ribotyping of *Escherichia coli* isolates of poultry. *Indian J.Comp.Microbiol.Immunol.Infect.Dis.*:27(1): 39-41

21) Shuchismita Chatterjee, **S.K.Kashyap** and S.K.Ghorui (2007): Resistotyping of different strains of *Escherichia coli* isolates of livestock and poultry. *Indian J. Animal Science* 77: 163-166

22) Ashok Dubey and **S.K.Kashyap** (2007): Characterization of coagulase positive and coagulase negative *Staphylococcus aureus* by biotyping and resistotyping. *Vet. Practioner* 8: 111-115

23) Shuchismita Chatterjee, R. Sharma and **S.K.Kashyap** (2007): Evaluation of typing systems used for differentiation of *Escherichia coli* isolates using discriminatory index. *Vet. Practioner* 8: 116-118

24) DL Bohra, S.Maherchandani, CL Bora and **S.K.Kashyap** (2008): Comparative study of aerobic bacteria of upper respiratory tract of horse and donkey. *Vet. Practioner* 9 (1) : 50 -51

25) Kishan Kumar Sharma, Sumant Vyas, **S.K. Kashyap** and AminuDeen (2008): Isolation and identification of bacteria from lower genital tract of female dromedary camel. *Vet. Practioner* 9 (1) : 19-21

26) Ashok Dubey, S K Ghorui and **S. K. Kashyap** (2009): Differentiation of *Staphylococcus aureus* strains based on 16S-23S ribosomal RNA intergenic space polymorphism. *Indian Journal of Biotechnology* Vol 8, pp 276-279

27) Devendra Kumar, **S.K. Kashyap** and S.Maherchandani (2009): Antibacterial activity of some plant extracts. *Vet. Practioner* 10 (2) : 148-151

- 28) S.Chatterjee, **S.K.Kashyap**, S.K.Ghorui (2010) : Polymorphism in 16S-23S rRNA gene internal spacer region in *Escherichia coli* isolates of cattle and sheep. **Vet Practitioner**. 11 (2) : 88-92
- 29) S.K.Sharma, J. Singh, S.Maherchandani and **S.K.Kashyap** (2012) Antibacterial activity of *Ziziphus nummularia* and *Propolis cineraria* leaves extracts against *Staphylococcus aureus* and *Escherichia coli*. **Vet Practitioner**. 13 (1) : 46-48
- 30) M. Upreti, F.N. Faridi, S. Maherchandani, B. N. Shringi and **S. K. Kashyap** (2012) Genetic diversity study of indigenous cattle (Gir and Kankrej) population of Rajasthan using microsatellite markers. **African Journal of Biotechnology** 11(97), pp. 16313-16319
- 31) D.G. Gupta, S. Maherchandani, A.Vijay and **S.K. Kashyap** (2012) Antibiotic resistance among *Pseudomonas aeruginosa* isolates obtained from different Environments. **Vet. Practitioner** 13 (2): 193-194
- 32) Dau Lal Bohra, C K Bahura, **S. K. Kashyap** (2012) Antibigram of *Streptococcus* spp. Isolates in upper respiratory tract and skin sample of equines. **Adv. Pharmacol. Toxicol.** 13 (3) 2012, 13-15
- 33) Vinay Yadav, S Maherchandani, **SK Kashyap**, KK Sarma, Ravinder Sharma, Arvind Kumar. (2013) Assessment of efficacy of vaccination against BQ and FMD in *Elephas maximus* (Asiatic Elephants). **J of Immunology & Immunopathology**. 15:27-34
- 34) Dau Lal Bohra, C. K. Bahura, **S. K. Kashyap** and S. Maherchandani (2013) Upper respiratory tract and skin diseases of Horses in indian desert: case study. **Adv. Pharmacol. Toxicol.** 14, 15-20
- 35) Sanjay Kumar, G.S.Manohar, S.K.Ghorui, **S.K.Kashyap**, S. Maherchandani, N.V.Patil (2013): Amplification, cloning and sequence analysis of paraflagellar rod 2 gene of *Trypanosoma evansi* isolated from Indian dromedaries. **Vet Practitioner** 14: 204-207
- 36) Neena Gupta, Farah Faridi, S. Maherchandani **S.K.Kashyap** (2013): Evaluation of effect of broth enrichment in detecting major pathogens of clinical bovine mastitis from simplex PCR. **Vet Practitioner**, 14: 271-274
- 37) Sanjay Kumar, G. S. Manohar, S. K. Ghorui, **S. K. Kashyap** and S. Maherchandani. (2013) Molecular characterization of paraflagellar rod 1 gene of *Trypanosoma evansi* from Indian dromedaries. **Journal of Camel Practice and Research** 20 : 191–196.
- 38) Sanjay Kumar, GS Manohar, SK Ghorui, **SK Kashyap** and S Maherchandani(2014) Isolation and molecular characterization of *oligopeptidase B* gene of *Trypanosoma evansi* from Indian dromedaries. **Indian J. Animal Science** 84: 3-7
- 39) Naveen Kumar, Sunil Maherchandani, **Sudhir Kumar Kashyap**, Shoor Vir Singh, Shalini Sharma, Kundan Kumar Chaubey and Hinh Ly (2014) : Peste Des Petits Ruminants Virus Infection of Small Ruminants: A Comprehensive Review. **Viruses** 6(6) 2287- 2327
- 40) M. Soni, B. N. Shringi, S. Maherchandani and **S. K. Kashyap** (2014) Seroprevalence study of bubaline brucellosis in Kota Division of Rajasthan using various serodiagnostic tests. **Indian Journal of Animal Sciences** 84 (7): 745–746
- 41) Kishore Kumar, S. Maherchandani, **S.K.Kashyap**, D.L.Bohra, R.K.Vaid (2014) Prevalence of *Rhodococcus equi* in equine environments in arid zone. **Indian Journal of Comparative Microbiology, Immunology & Infectious Diseases** 34(1) 34-38
- 42) Kanchan Jangir, B.N. Shringi, Irfan Ahmad Mir, Ram Hari Meena, Nishtha Purohit, Sunil Maherchandani and **S.K. Kashyap** (2015) Isolation, Biochemical and Virulence Characterisation of *Enterococcus faecalis* and *Enterococcus faecium* Isolated from Poultry Feces. **J Pure & Applied Microbiology**. 9 1075-1080

- 43) Kanchan Jangir, B.N. Shringi, M.Beriwal, Ram Hari Meena, Sunil Maherchandani and **S.K. Kashyap** (2015) Multiple Antibiotic resistance (MAR) index of Enterococcal isolates from healthy poultry faeces in Bikaner region. (2015) *J Pure & Applied Microbiology*. **9** 1741-1745
- 44) Irfan Ahmad Mir, **Sudhir Kumar Kashyap**, Sunil Maherchandani.(2015) Isolation, serotype diversity and antibiogram of *Salmonella enterica* isolated from different species of poultry in India *Asia Pacific J of Tropical Biomedicine* **5**: 561-67
- 45) Ram Hari Meena, Irfan Ahmed Mir, Sunil Maherchandani, Kanchan Jangir, Nishtha Purohit, and **S. K. Kashyap** (2015) Antibiotic resistance pattern and Phylogentic analysis of commensal *Escherichia coli* isolated from poultry. *J. Pure and Appl. Microbiol.* 9(1): 657-662.
- 46) Neena Gupta, Farah Faridi, S.Maherchandani, **S.K. Kashyap** (2015). Detection and genetic characterization of major pathogens isolated from bovine mastitis in Rajasthan *I. Journal of Veterinary Sciences and Biotechnology* **11**(2): 1-6
- 47) Manish Kumar Suthar, Mukul Purva, Sunil Maherchandani, Sudhir Kumar Kashyap (2016) Identification and in silico analysis of cattle DExH/D box RNA helicases. *SpringerPlus*, 5(1), 1-13
- 48) Ramhari Meena, Kanchan Jangir, S.Maherchandani, Bharat Singh Meena, Anjali Gangwal, Pramod K Boyal, S.K.Kashyap(2016): Isolation, Identification and multiple antibiotic resistance ® indices of commensal *Escherichia coli* isolated from healthy chicks. *Vet Practitioner* 17: 166-168
- 49) Anjali Gangwal, **S.K.Kashyap**, Sushil Katiyar, Dheerendra Meena, Pramod Boyal, Kapil Gupta. (2017) Isolation and identification of common mastitis causing pathogens from clinical bovine mastitis milk. *J. Pure and Appl. Microbiol.* 11(1): 329-333.
- 50) Ankita Gurao, Sudhir Kumar Kashyap and Ravinder Singh (2017) β -defensins: An innate defense for bovine mastitis - *Veterinary World*, 10(8): 990-998
- 51) Hakim Manzar, S K Ghorui, G.S.Manohar, **S.K.Kashyap**, Shashikant Kankar (2017) Identification and Molecular Cloning of Heat Shock Protein-70 (HSP -70) Gene of *Trypanosoma evansi* isolated from Camel *J Camel Practice & Research* 24:85-88
- 52)) Hakim Manzar, S K Ghorui, G.S.Manohar, **S.K.Kashyap**, Shashikant Kankar (2017) Identification and molecular cloning of cysteine protease gene of *Trypanosoma evansi* Isolated from Camel. *J Camel Practice & Research* 24(2):
- 53) Rohish Kaura, M.Irfan, Farah Faridi, S.Maherchandani,, K.Patel, **S.K.Kashyap** ,(2017) Detection of Some Important Bacterial Agents Causing Bovine Mastitis __*J Pure and Applied Microbiology* 11(3):1465-1468
- 54) Anjali Gangwar, S.K.Kashyap (2017) Identification of Bovine Mastitis Associated Pathogens by Multiplex PCR. *Journal of Dairy & Veterinary Sciences*. 3(5) 55622
- 55) Pradeep Sharma, Sunil Maherchandani, B. N. Shringi, **Sudhir Kumar Kashyap** & K. S. Gopi Sundar (2018) Temporal variations in patterns of *Escherichia coli* strain diversity and antimicrobial resistance in the migrant Egyptian vulture. *Infection Ecology & Epidemiology* 8: 1450590:

- 56) Pallavi Joshi, Priyank Vyas and SK Kashyap (2018) Molecular characterization of Nagori cattle using microsatellite markers. *Journal of Pharmacognosy and Phytochemistry* 2018; 7(2): 3250-3252
- 57) Ankita Gurao, Ravinder Singh, S.K.Kashyap. (2017) Beta defensins: An innate defense against bovine mastitis. *Vet world*.2017.990-998
- 58) Sharma, Pradeep & Maherchandani, Sunil & N. Shringi, B & Kumar Kashyap, Sudhir & Sundar, KS Gopi. (2018). E coli Ecology In Egyptian Vultures In Rajasthan Suppl.
- 59) Yadav, Rahul & Yadav, Jyotika & Maherchandani, Sunil & Kumar Kashyap, Sudhir. (2018). Typing of *Campylobacter jejuni* isolated from poultry on the basis of fla A-RFLP by various restriction enzymes. *Veterinary and Animal Science*. .1016/j.vas.2018.06.003.
- 60) Ram Kumara, Nitin Khandelwal , Riyesh Thachamvally , Bhupendra Nath Tripathia , Sanjay Baruaa , Sudhir Kumar Kashyap , Sunil Maherchandani , Naveen Kumar (2018) Role of MAPK/MNK1 signaling in virus replication. *Virus Research*. 253:48-61
- 61) Ankita Gurao, RS Kataria, Ravinder Singh, Ravi D Kumar, SK Mishra and SK Kashyap. (2018) Association analysis of differential expression of beta defensins with mastitis in indicine dairy cattle. *Indian J Dairy Sci* 71(5): 534-537
- 62) Ram Kumar, Nitin Khandelwal , Yogesh Chandra, Thachamvally Riyasha , Bhupendra N. Tripathia , Sudhir Kumar Kashyapb , Sanjay Baruaa,, Sunil Maherchandani, Naveen Kumara(2018) MNK1 inhibitor as an antiviral agent suppresses buffalopox virus protein synthesis. *Antiviral Research*:160: 126-36

Book Chapter-

S.K. Kashyap, S. Maherchandani and Naveen Kumar (2014) Ribotyping: A Tool for Molecular Taxonomy. In – ‘Animal Biotechnology, Models in discovery and translation’. Ed. Ashish S. Verma & Anchal Singh. Elsevier Inc. 327-344

Papers presented/published in Conferences/ Symposia/workshop proceedings.:

1. **S.K.Kashyap** . Bacterial and fungal isolates from lacteal secretions. Proceedings of Annual Conference of Society of Basic & Applied Microbiologists. Held at RAU, Bikaner. Dec. 10-11, 1987
2. **S.K.Kashyap**, K.N.Sharma.:Immunoglobulin IgG1, IgG2 and IgM class profile in cross-bred cattle.XI Annual Conference and Symposium of IAVMI, 26-28 Dec. 1990
3. **S.K.Kashyap**. E.F.Boldyreva, V.G.Korobko. A novel method to synthesize two forms of human granulocyte colony stimulating factor gene.. Symposium of Frontiers of Bioorganic Chemistry, RAU, Bikaner. 21-22 Jan.1994
4. **S.K.Kashyap**, V.G.Korobko: A new approach to enhance gene expression in E.coli of eukaryotic gene.XVII annual Conference of IAVMI, Bhubneshwar, 16-18 Nov. 1996
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