Rajeev Kaul, B.V.Sc. & A.H., M.V.Sc., Ph.D.

Professor
Department of Microbiology
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EDUCATION:

2004	Ph.D.	Veterinary Virology, Indian Veterinary Research Institute, Izatnagar, India
1999	M.V.Sc.	Veterinary Microbiology, CCS Haryana Agricultural University, Hisar, India
1997	B.V.Sc.& A.H.	Veterinary Sciences and Animal Husbandry, CCS Haryana Agricultural University, Hisar, India

CAREER PROFILE:

2021-onwards **Professor**, Department of Microbiology, University of Delhi, South Campus

2018-2021 **Associate Professor**, Department of Microbiology, University of Delhi, South Campus

2013-2014 **Indo-US Raman Research Fellow,** Department of Microbiology and Molecular Biology University of Nevada, Reno, USA,

2010-2018 **Assistant Professor**, Department of Microbiology, University of Delhi, South Campus

2004-2010 **Post-Doctoral Fellow**, University of Pennsylvania, School of Medicine, Abramson Comprehensive Cancer Center

2000-2001 **Research Associate**, 'National Bureau of Animal Genetic Resources' (ICAR), Karnal.

RESEARCH PROFILE:

1. Number of research publications : 38
2. Number of publications as principal/ corresponding author : 23
3. Number of publications as co-author : 15
4. Total citations received (Scopus/ ResearchGate/Google Scholar) : 825/ 932/ 1171
5. H-index excluding self-citations (Scopus/ ResearchGate/Google Scholar) : 17/ 17/ 20
6. i10 index (as per Google Scholar) : 24
7. RG score (ResearchGate score) : 28.35

TEACHING EXPERIENCE:

Courses taught to M.Sc. students (2010-2021)

1. Virology (MICROB-703)
2. Immunology (MICROB-704)
3. Microbial Pathogenicity (MICROB-804)
4. Molecular Biology (MICROB-901)

Courses taught to Ph.D. students (2010-2021)

1. Virology (MIC-III)
2. Immunology (MIC-V)
3. Research Methodologies
4. Research and Publication Ethics

EXTENSION ACTIVITIES:

1. Radio: Expert virologist in panel discussion on novel Coronavirus Akashwani Rainbow FM on 04-Feb-2020
2. News: Expert virologist for TV9 news Network
3. YouTube: INSA organized panel discussion on Covid-19 broadcast live on YouTube on 08-Dec-2020

RESEARCH GUIDANCE:

1. Number of Ph.D. students guided who have been awarded degree : 04
2. Number of Ph.D. students currently guiding : 04
3. Number of M.Sc. students guided who have been awarded degree : 21
4. Number of M.Sc. students currently guiding : 04

MAJOR RESEARCH GRANTS (6):

	Research projects completed as 'Principal Investigator'					
	Year	**Title**	**Grant (lakhs)**	**Period**		**Sponsoring/ Funding Agency**
				From	To	
1.	2011-14	Mechanism of Epstein Barr Virus (EBV) latency control by Inflammation	40	June 2011	Dec 2014	DBT
2.	2011-13	Virus Biome	39	Sep 2011	Sep 2013	DST-PURSE
3.	2012-15	Hepatitis C virus infection and expression of Cox-2	55	Apr 2012	Oct 2015	DBT
4.	2012-15	Generation and characterization of Epstein Barr Virus transformed lymphoblastoid cell lines of diverse origin	14	July 2012	June 2015	UGC
5.	2015-17	Molecular surveillance of animal viral pathogens prevalent in Leh- Ladakh region	10	Sep 2015	Sep 2017	DRDO
6.	2017-20	Understanding the molecular basis of *peste-des- petits ruminants* virus (PPRV) mediated host immune modulation for the development of next generation vaccine	60	Apr 2017	Mar 2020	ICAR

ADMINISTRATIVE EXPERIENCE (9):

1. Joint Nodal Officer of BioNEST Bioincubator at UDSC since 2020
2. Radiological Safety Officer (RSO) for Department since 2011
3. Deputy coordinator of UGC-SAP program of Department from 2012-17
4. Nodal officer for admission to PG and PhD programs for Department since 2014
5. Veterinarian for Animal House of South Campus since 2018
6. Member of Institute Animal Ethics Committee of South Campus since 2018
7. Expert Member of Institute BioSafety Committee of National Institute of Animal Health, Baghpat since 2015
8. Member of CIF committee of South Campus since 2017
9. Member of Institute BioSafety Committee of Shiv Nader University since 2020

AWARDS & FELLOWSHIPS (6):

1. Indo-US Raman Research fellowship (2013-14)
2. International Herpesvirus Association merit award 2008
3. IVRI-Senior Research Fellowship during PhD
4. CCSHAU Merit fellowship for academic excellence during entire duration of M.V.Sc.
5. CCSHAU Merit fellowship for academic excellence during entire duration of B.V.Sc & A.H.
6. Selected in State Talent Search Examination by SCERT Haryana in 1990

PROFESSIONAL ORGANIZATION MEMBERSHIP (6):

1. Member of Herpesvirale Study Group of '**International Committee on Taxonomy of Viruses'** since 2017
2. Indian Virological Society (Life member)
3. Indian Association of Veterinary Microbiologists, immunologists & Specialists in infectious disease (Life member)
4. Veterinary Council of India (Member Regd no.2144)
5. Delhi Veterinary Council (Member)
6. Editor (Medical Virology) of VirusDisease

REFRESHER COURSES/ TRAININGS UNDERTAKEN (6)

1. Three weeks Refresher course in Life Sciences/ Biological Sciences/ Bio-informatics organized by CPDHE, University of Delhi from 25-Feb to 16 Mar 2013
2. Four weeks Orientation course organized by ACS, JNU from 06-April to 01-May 2015
3. Two weeks Refresher course in Life Science organized by CPDHE, University of Delhi from 28-June to 11-July 2019
4. One week Workshop on 'Personality Development and Leadership Skills' organized by CPDHE, University of Delhi from 25-July to 31-July 2020
5. One week Workshop on 'Research Methodology' organized by CPDHE, University of Delhi from 10-Sep to 16-Sep 2020
6. One week Faculty Development Program on 'Digital pedagogy to enhance teaching and learning experience' conducted by Maitreyi College from 15-Dec to 21-Dec 2020

LAB RESEARCH PROFILE:

Our lab has worked to study biology of **cancers mediated by viruses**, and molecular basis of virus mediated host immuno-suppression. Tumor viruses have provided relatively simple genetic systems, which can be manipulated for understanding the molecular mechanisms of the cellular transformation process. A growing body of information in the tumor virology field provides several prospects for rationally targeted therapies. However, further research is needed to better understand the multiple mechanisms utilized by these viruses in cancer

progression in order to develop therapeutic strategies. The major focus of our lab has been to investigate virus host interactions using various tools including cell culture system and mice models. Primarily, we study three human tumor associated viruses, **Epstein Barr Virus** (EBV), **Kaposi sarcoma associated herepesvirus** (KSHV), and **Hepatitis C Virus** (HCV).

In addition, we have been working on understanding the molecular basis of ***peste-des-petits ruminants* virus (PPRV)** mediated host immune modulation for the development of next generation vaccine. Immuno-suppression and innate immunity control by morbilliviruses such as PPRV in small ruminants and measles in human remains a leading cause of death among infected host because it suppresses immune function, facilitating secondary infections. The basic mechanisms underlying PPRV-induced immunosuppression are poorly understood. The extent of viral replication documented in immune cells implies that it can directly cause immunosuppression. Our central hypothesis is that these viruses have evolved a multi-pronged host cell control strategy that allow them to replicate to high levels in host cells and induce generalized immunosuppression by interfering in cellular immune signaling pathways. The work will be important for more comprehensive understanding of basic cellular processes, in addition to providing us with targets to focus for development of anti-viral therapeutics and better safer non-immunosuppressive vaccines.

Very recently, our proposal to generate **specific single domain antibodies (sdAbs) against antimicrobial resistant Mastitis pathogens for clinical therapeutic use in dairy animals** has been approved for funding by DBT-BIRAC. Mastitis is a clinically relevant disease of dairy animals that has implications much beyond the infected animal, and is of immense importance for human health as well under 'One-Health' concept which requires integrated evaluation of human and animal health for optimal health outcome for all. The expected outcome of this project will be the discovery and development of cost affordable and accessible single domain monoclonal antibodies (sdMab) against three of the Mastitis causing antimicrobial resistant bacteria. The proposal includes all the steps from identification of antibody targets, screening of antibodies, and their characterization and potency testing, process optimization for their production on large scale, and testing their efficacy in lab model as pre-clinical testing. In future, the antibody will be tested clinically on animals suffering from mastitis. We expect to achieve all these goals upto pre-clinical testing in time frame of 3 years. The antibodies so developed will be useful for treatment of animals in reducing the duration of treatment especially in case of mastitis caused by drug resistant bacteria. The antibody formulation for clinical use will be for intra-mammary application in sick animals.

LIST OF PUBLICATIONS (42):

1. Yash Chaudhary, Purnati Khuntia, **Rajeev Kaul** (2022). Susceptibility to foot and mouth disease virus infection in vaccinated cattle, and host BoLA A and BoLA DRB3 genes polymorphism. VirusDisease. 2022 https://doi.org/10.1007/s13337-021-00754-8 Impact factor: **1.5**
2. Yashu Sharma, Roman Sarkar, Ayush Jain, Sudhakar Singh, Chander Shekhar, Chandrasekar Shanmugam, Muthuchelvan Dhanavelu, Prabhakar Tembhurne, **Rajeev Kaul (Co-corresponding author)**, Sharvan Sehrawat (2021). A Mouse Model of PPRV Infection for Elucidating Protective and Pathological Roles of Immune Cells. ***Front Immunol***. 2021 Apr 12;12:630307. Impact factor: **5.1**
3. Derek Gatherer, Daniel P. Depledge, Carol A. Hartley, Moriah L. Szpara, Paola K. Vaz, Mária Benkő, Curtis R. Brandt, Neil A. Bryant, Akbar Dastjerdi, Andor Doszpoly, Ursula A. Gompels, Naoki Inoue, Keith W. Jarosinski, **Rajeev Kaul**, Vincent Lacoste, Peter Norberg, Francesco C. Origgi, Richard J. Orton, Philip E. Pellett, D. Scott Schmid, Stephen J. Spatz, James P. Stewart, Jakob Trimpert, Thomas B. Waltzek, Andrew J. Davison, and ICTV Report Consortium (2021). ICTV Virus Taxonomy Profile: Herpesviridae. ***Journal of General Virology*** 2021 Oct: 102(10):001673. Impact factor: **3.4**
4. Jain J, Gaur S, Chaudhary Y, **Kaul R** (2020). The molecular biology of intracellular events during Coronavirus infection cycle. ***VirusDisease*** 2020 May 4 : 1–5. Impact factor: **1.5**
5. Paul C., **Kaul R.** (2019) Virus-Mediated Cancers in Animals. In: Malik Y., Singh R., Yadav M. (eds) ***Recent Advances in Animal***

Virology. Springer, Singapore. https://doi.org/10.1007/978-981-13-9073-9_21. Book Chapter

6. Catrherine Paul, Lohit Khera, **Rajeev Kaul** (2019). Hepatitis C virus core protein interacts with cellular metastasis suppressor Nm23-H1 and promotes cell migration and invasion. ***Archives of Virology*** 2019 Mar 11. doi: 10.1007/s00705-019-04151-x. Impact factor: **2.3**

7. **Rajeev Kaul**, Pravinkumar Purushothaman, Timsy Uppal and Subhash C. Verma (2019). KSHV lytic proteins K-RTA and K8 bind to cellular and viral chromatin to modulate gene expression. ***PLOS One***, 2019 Apr 18;14(4):e0215394. Impact factor: **3.2**

8. Nivedita Gaur, Tanvi Tikla, **Rajeev Kaul**. Kaposi sarcoma-associated herpes virus (KSHV) latent protein LANA modulates cellular genes associated with epithelial-to-mesenchymal transition. ***Archives of Virology***. https://doi.org/10.1007/s00705-018-4060-y. Impact factor: **2.3**

9. Sharvan Sehrawat and **Rajeev Kaul**. Veterinarians as scientific contributors in mainstream biomedical research. ***Current Science***, Vol 115 (4), 2018, 616-617. Impact factor: **1.1**

10. Lohit Khera, Catherine Paul, **Rajeev Kaul**. Hepatitis C Virus mediated metastasis in hepatocellular carcinoma as a therapeutic target for cancer management. ***Current Drug Metabolism***, Vol 19 (2018) (DOI: 10.2174/1389200219666180129110942). Impact factor: **3.0**

11. Meenakshi Tanwar, Lohit Khera, Nemneineng Haokip, **Rajeev Kaul**, Aruna Naorem & Suneel Kateriya. Modulation of cyclic nucleotide-mediated cellular signaling and gene expression using photoactivated adenylyl cyclase as an optogenetic tool. ***Scientific Reports*** 7, Article number: 12048 (2017). doi:10.1038/s41598-017-12162-4. Impact factor: **4.4**

12. Lohit Khera, Catherine Paul, **Rajeev Kaul**. Hepatitis C Virus E1 protein promotes cell migration and invasion by modulating cellular metastasis suppressor Nm23-H1. ***Virology***. 2017 Apr 1;506:110-120. Impact factor: **3.6**

13. Jaya Gandhi, Lohit Khera, Nivedita Gaur, Catherine Paul, **Rajeev Kaul**. Role of Modulator of Inflammation Cyclooxygenase-2 in Gammaherpesvirus Mediated Tumorigenesis. ***Front. Microbiol***. | doi: 10.3389/fmicb.2017.00538. Impact factor: **4.2**

14. Jaya Gandhi, Nivedita Gaur, Lohit Khera, **Rajeev Kaul (Co-corresponding author)**, Erle Robertson*. 2015. COX-2 induces lytic reactivation of Epstein Barr Virus through Prostaglandin E2 by modulating the EP receptor signalling Pathway. ***Virology***. 2015. Jun 4;484:1-14. Impact factor: **3.6**

15. Nivedita Gaur, Jaya Gandhi, Erle S Robertson, Subhash C Verma, **Rajeev Kaul**. 2014. Epstein Barr Virus latent antigens EBNA3C and EBNA1 modulate epithelial to mesenchymal transition of cancer cells associated with tumour metastasis. ***Tumor Biology***. 2014 Dec 13. Impact factor: **3.7**

16. Prerna dabral, Lohit Khera, **Rajeev Kaul**. 2014. Host Proteins associated with Hepatitis C Virus encoded NS4A. ***Virus Disease***. 2014. 25(4): 493-496. Impact factor: **1.0**

17. Jaya Gandhi and **Rajeev Kaul.** 2011. Cyclooxygenase-2 and hepatocellular carcinoma: the proteomics of association. ***Journal of Proteins and Proteomics***. 2011 July-Dec 2(2):81-97.

18. Jie Lu, Masanao Murakami, Subhash C. Verma, Qiliang Cai, Sabyasachi Haldar, **Rajeev Kaul**, Mariusz A. Wasik, Jaap Middeldorp and Erle S. Robertson. 2011. Epstein-Barr Virus nuclear antigen 1 (EBNA1) confers resistance to apoptosis in EBV-positive B-lymphoma cells through up-regulation of survivin. ***Virology***. 2011 Feb 5;410(1):64-75. Impact factor: **3.6**

19. Abhik Saha*, **Rajeev Kaul***, Masanao Murakami and Erle S. Robertson (* Joint first author). 2010. Tumor viruses and cancer biology: Modulating signaling pathways for therapeutic intervention. ***Cancer Biology and Therapy***, 2010 Nov 29; 10(10):961-78. Impact factor: **3.7**

20. Bingyi Xiao, Subhash Verma, Qiliang Cai, **Rajeev Kaul**, Jie Lu, Abhik Saha, Erle Robertson. 2010. Bub1 and CENP-F Can Contribute to KSHV Genome Persistence by Targeting LANA to Kinetochores. ***Journal of Virology.*** 2010 Oct; 84(19):9718-32. Impact factor: **4.5**

21. Tathagata Choudhuri, Masanao Murakami1, **Rajeev Kaul**, Sushil K Sahu, Suchitra Mohanty, Subhash C Verma, Pankaj Kumar and Erle S. Robertson. 2010. Nm23-H1 Can Induce Cell Cycle Arrest and Apoptosis in B cells. ***Cancer Biology and Therapy***, 2010 Jun 11;9(12) 1065-1078. Impact factor: **3.7**

22. **Rajeev Kaul**, Masanao Murakami, Pankaj Kumar and Erle S Robertson. 2010. Nm23-H1 as a metastasis suppressor. In ***Cancer genome and tumor microenvironment*.** Ed. Andrei Thomas-Tikhonenko, Pub: Springer, New York, USA. Book Chapter. Book Chapter

23. **Rajeev Kaul,** Masanao Murakami, Tathagata Choudhuri, Ke Lan and Erle S Robertson. EBNA3C can modulate the activities of the transcription factor Necdin in association with the metastasis suppressor protein Nm23-H1. ***Journal of Virology*** May 2009: 83 (10) 4871–4883. Impact factor: **4.5**

24. Ke Lan, Masanao Murakami, Bharat Bajaj, **Rajeev Kaul**, Zhiheng He, Runliang Gan, Michael Feldman, Erle S. Robertson. 2009. Inhibition of KSHV infected primary effusion lymphomas in NOD/SCID mice by gamma-secretase inhibitor. ***Cancer Bio and Therapy***. 2009 Nov;8(22):2136-43. Impact factor: **3.7**

25. Masanao Murakami, **Rajeev Kaul**, Pankaj Kumar and Erle S Robertson. 2009. Nucleoside Diphosphate Kinase/Nm23 and Epstein Barr Virus. ***Molecular and Cellular Biochemistry*** 2009 Sep; 329 (1-2): 131-139. Impact factor: **2.1**

26. Pankaj Kumar, **Rajeev Kaul**, Masanao Murakami and Erle S Robertson. 2008. Deregulation of the cell cycle machinery by Epstein-Barr virus nuclear antigen 3C. ***Future Virology***. January 2009, Vol. 4, No. 1, Pages 79-91. Impact factor: **1.8**

27. Masanao Murakami, Patricio I. Meneses, Jason Knight, Ke Lan, **Rajeev Kaul**, Subhash C. Verma, and Erle S. Robertson. Nm23-H1 modulates the activity of the guanine exchange factor Dbl-1. ***International Journal of Cancer***. 2008 May 9;123(3):500-510. Impact factor: **7.4**

28. Masanao Murakami, **Rajeev Kaul**, and Erle S Robertson. 2008. MTA1 expression linked to ovarian cancer. ***Cancer Biology and Therapy***. 2008 Sep (9): 1468-1470. Impact factor: **3.7**

29. **Rajeev Kaul**, Masanao Murakami, Tathagata Choudhuri and Erle S. Robertson. EBV nuclear antigens promote metastasis and can overcome the metastasis suppressor effect of Nm23H1 in the nude mice model. ***Journal of Virology*** 2007 Oct;81(19):10352-61. Impact factor: **4.5**

30. **Rajeev Kaul**, Subhash C Verma, and Erle S Robertson. Protein complexes associated with the Kaposi's sarcoma-associated herpesvirus-encoded LANA. ***Virology***. 2007 Aug 1;364(2):317-29. Impact factor: **3.6**

31. Ke Lan, Subhash C. Verma, Masanao Murakami, Bharat Bajaj, **Rajeev Kaul**, and Erle S. Robertson. KSHV encoded latency associated nuclear antigen stabilizes intracellular activated Notch by targeting the Sel10 protein. ***Proceedings of the National Academy of Sciences***. 2007 Oct 9;104(41):16287-92. Impact factor: **11.2**

32. Subhash C Verma, Tathagata Choudhuri, **Rajeev Kaul**, Erle S Robertson. Latency-associated nuclear antigen (LANA) of Kaposi's sarcoma-associated herpesvirus interacts with origin recognition complexes at the LANA binding sequence within the terminal repeats. ***Journal of Virology***. 2006 Mar;80(5):2243-56. Impact factor: **4.5**

33. **Rajeev Kaul**, Subhash Verma, Masanao Murakami, Ke Lan, Tathagata Choudhuri and Erle S, Robertson . Epstein-Barr virus protein can upregulate Cyclooxgenase-2 expression through Association with the Suppressor of Metastasis Nm23-H1. ***Journal of Virology*** 2006 Feb; 80(3); 1321-1331. Impact factor: **4.5**

34. P Dhar, D Muthuchelvan, A Sanyal, **R Kaul**, RP Singh, RK Singh, and SK Bandyopadhyay. Sequence analysis of the haemagglutinin and fusion protein genes of peste-des-petits ruminants vaccine virus of Indian origin. ***Virus Genes***. 2006 Feb;32(1):71-8. Impact factor: **2.0**

35. R.Behl, **R.Kaul**, N.Sheoran. J.Behl, M.S.Tantia and R.K.Vijh. Genetic identity of two Indian pig types using microsatellite markers. 2002. ***Animal genetics***. 33: 158-159. Impact factor: **1.8**

36. Rahul Behl and **Rajeev Kaul**. Insulin like growth factor 1 and regulation of ovarian function in mammals. 2002. ***Indian Journal of Experimental Biology***. Vol 40: 25-30. Impact factor: **2.0**

37. **Rajeev Kaul**, Atar Singh, R.K.Vijh, M.S.Tantia and Rahul Behl. Evaluation of the genetic variability of 13 microsatellite markers in native Indian pigs. ***Journal of Genetics***. 2001. 80 (3): 149-153. Impact factor: **1.0**

38. **Rajeev Kaul**, Satish K Kalra, Arvind Kumar, SK Chaudhary. Use of binary ethylenimine inactivated infectious bursal disease virus as trapped antigen in ELISA. ***Indian Journal of Microbiology***. 2001. 40(4):327-329. Impact factor: **1.0**

Other Publications

39. Lohit Khera & **Rajeev Kaul**. 2016. EBV hijacks gene enhancers to promote carcinogenesis. *Virus Research News*. Vol 5 (1&2), 2016, page 3

40. **Rajeev Kaul**, & Catherine Paul. 2016. Antiviral drug resistance: Molecular aspects and clinical consequences. In special issue of '*Life under lens'*, the annual publication of Sukshmjeev Society, Department of Microbiology, Bhaskaracharya College of Applied Sciences, University of Delhi, Delhi, page 22-23.

41. Nivedita Gaur, Jaya Gandhi, and **Rajeev Kaul**. 2015. Epstein Barr Virus promotes Cancer metastasis. VirusResearch News, Vol 4, No. 2 Dec 2015: 1-2. ISSN : 2394-4536

42. **Rajeev Kaul**, Misra S.K. and M.U.Kharole. 2000. Infectious Bursal Disease- A Problem for Poultry industry. 2000. *Haryana Farming*. XXXI (2):19.21.

43. Kalra S.K. and **Rajeev Kaul.** 2000. Plaque reduction assay. In: Laboratory manual of training on '*Advances in cell culture technology*'. ICAR center of Advanced studies, Department of Veterinary Microbiology, CCSHAU, Hisar from march 3-23, 2000.

SCIENTIFIC ABSTRACTS, POSTERS, AND ORAL PRESENTATIONS (34):

1. **Rajeev Kaul**. 2022. Delivered invited talks in lecture series organized by GADVASU Ludhiana on topics 'Next generation of vaccines' and 'Scientific writing and Research Ethics' on 13-14 Jan 2022.

2. **Rajeev Kaul**. 2020. Delivered talk as resource person in certificate course organized by RLA college, Delhi on 'Science writing & Research Ethics' from 13-July to 07-Aug 2020.

3. **Rajeev Kaul**. 2020. Next generation of vaccines: the lessons from history and implications for future. Invited lecture delivered at 48th Dairy Industry Conference organized by NDRI in Jaipur on 20-22 Feb 2020

4. **Rajeev Kaul**. 2020. Identifying universal principles of host-pathogen interaction: lessons from morbilliviruses. Invited lecture delivered at VIROCON 2020: International Conference on "Evolution of Viruses and Viral Diseases" 18-20 February, 2020 at Indian National Science Academy, New Delhi, India

5. **Rajeev Kau**l. 2018. Molecular biology of virus mediated cancers: Role of virus coded proteins in cancer metastasis. Poster presentation at 10th Young Investigator Meet organized by India Biosciences, Thiruvanathpuram, 05-09 Mar 2018.

6. **Rajeev Kaul**. 2017. Molecular Biology of Virus Mediated Cancer. Delivered invited talk at Microfest-2017 organized by Institute of Home economics, Delhi on 07-Mar 2017

7. **Rajeev Kaul**. 2017. Lytic reactivation of latently infected Herpesviruses by host modulator of inflammation Cyclooxygenase-2. Lead talk at 30th annual conference of Indian Association of Veterinary Microbiologist, Immunologists & Specialists in Infectious diseases, organized by Nagpur Veterinary College, 10-12 Feb 2017

8. **Rajeev Kaul**. 2017. Molecular Biology of Virus Mediated Cancer. Invited talk at Amity Institute of Virology and Immunology, 20-Jan-2017

9. Lohit Khera, Catherine Paul, & **Rajeev Kaul**. 2016. Hepatitis C Virus (HCV) mediated regulation of suppressor of tumor metastasis Nm23-H1. Poster presented at VIROCON-2016, the 25th annual conference of Indian Virological Society, organized by IIHR Bengaluru from 8-10 Dec, 2016

10. Catherine Paul, Lohit Khera, & **Rajeev Kaul**. 2016. Modulation of human metastasis suppressor Nm23-H1 by Hepatitis C virus Core protein. Poster presented at 57th Annual conference of Association of Microbiologists in India, organized by Department of Botany, Guwahati University, Assam, India on Nov 24-27, 2016.

11. **Rajeev Kaul**. 2016. Molecular Biology of Tumor Associated Viruses. Invited talk delivered as a National Faculty in GIAN course on Emerging and prevalent infections: Our preparations to tackle, organized by IISER Mohali on 01-02 Feb, 2016.

12. Lohit Khera, Catherine Paul, & **Rajeev Kaul**. 2016. Modulation of human metastasis suppressor Nm23-H1 by Hepatitis C virus. Poster presented at National Science Day Symposium organized by University of Delhi South Campus & INSA-TWAS India chapter at South Campus, Delhi, India on 29 Feb, 2016

13. Jaya Gandhi & **Rajeev Kaul.** VIROCON 2014. COX-2 induces lytic reactivation of Epstein Barr Virus through PGE2 by modulating the EP receptor signalling Pathway XXIII National Conference of Indian Virological Society 'Recent trends in Virology Research in the Omics Era'at Tamilnadu Agricultural University, Coimbatore from 18-20 Dec, 2014

14. **Rajeev Kaul**. Participated in 3rd Molecular Virology Meeting at National Institute of Virology, January 10-11, 2013, Pune, India

15. **Rajeev Kaul**. Carcinogenesis 2012, International Conference, 19-21 Nov, 2012, New Delhi, India

16. Jaya Gandhi, Lohit Khera, & **Rajeev Kaul**. VIROCON-2012, 'XXI' National Conference of Indian Virological Society on "Immunobiology and Management of Viral Diseases in 21st Century" at Indian Veterinary Research Institute, Mukteswar from November 8-10, 2012.

17. Jaya Gandhi, & **Rajeev Kaul**. International Congress on Oncogenic Herpesviruses & Associated Diseases, Philadelphia, USA, 1-4 Aug, 2012
18. **Rajeev Kaul.** Understanding the role of Inflammation in Metastasis. Invited talk presented at National Science Day symposium, University of Delhi South Campus, Delhi, Feb 27, 2012
19. **Rajeev Kaul.** Molecular biology of virus associated cancer. Poster presented at Young Investigator Meet 2012, Lonawala, Jan 7-11, 2012
20. **Rajeev Kaul**. Attended 20th National Conference of Indian Virological Society, Hisar, 29-31 Dec, 2011
21. **Rajeev Kaul.** Human Herpesviruses: Model for Latent Infection, Invited lecture at THSTI Gurgaon, Nov 01, 2011.
22. **Rajeev Kaul.** Understanding the role of Epstein Barr virus (EBV) latency protein in Cancer Metastasis. Invited talk presented at Molecular Virology meeting, Indian Institute of Sciences, Bangalore, April 29, 2011
23. **Rajeev Kaul.** Molecular biology of Virus mediated cancers. Invited talk at Division of Virology, IVRI Mukteswar campus. Mukteswar, March 28, 2011
24. **Rajeev Kaul.** Understanding the role of Epstein Barr virus (EBV) latency protein in Cancer Metastasis. Invited talk presented at SAP meeting, Department of Biochemistry, University of Delhi South Campus, Delhi, March 17, 2011
25. **Rajeev Kaul,** Masanao Murakami and Erle S Robertson. Modulation of Necdin functions by EBV latent antigen EBNa3C. 34th Annual International Herpesvirus Workshop, Ithaca, USA, July 2009
26. **Rajeev Kaul** and Erle S Robertson. Induction of inflammation mediator Cycloxygenase-2 leads to lytic reactivation of Epstein Barr Virus in latently infected cells. Poster in 33rd Annual International Herpesvirus Workshop, Estoril, Portugal, July 2008
27. **Rajeev Kaul** and Erle S Robertson. EBV latent antigen EBNA3C and suppressor of metastasis Nm23H1 modulates Necdin regulated functions. Presented in Tumor Virology Meeting, University of Pennsylvania Abramson Cancer Center, Philadelphia, USA. June 27 2008.
28. **Rajeev Kaul** and Erle S Robertson. COX-2 and EBV life cycle. Presented in Tumor Virology program meeting of Abramson cancer center, University of Pennsylvania, Philadelphia, USA. Sep 2007
29. **Rajeev Kaul**, Subhash C Verma and Erle S. Robetson. Proteomics studies on KSHV Latency associated nuclear antigen protein. The Eunice and Irving Leopold Annual Scientific Symposium and Retreat (University of Pennsylvania Abramson Cancer Center, Philadelphia, USA) March 2007
30. **Rajeev Kaul** and Erle S Robertson. EBV nuclear antigens promote metastasis in mice and can overcome effect of metastasis suppressor Nm23-H1. Presented in Tumor Virology program Meeting, University of Pennsylvania Abramson Cancer Center, Philadelphia, USA. Sep 2006.
31. **Rajeev Kaul,** Masanao Murakami, Tathagata Choudhuri, and Erle S. Robetson. Develop an in vivo animal model for evaluating the role of EBNA proteins and the Nm23H1 on the ability of cell lines to metastasize in mice. Twelfth International Symposium on EBV and Associated Diseases, Boston, USA. July 8-12th, 2006
32. **Rajeev Kaul,** Masanao Murakami, Tathagata Choudhuri, and Erle S. Robetson. EBV nuclear antigens promote metastasis in mice and can overcome effect of metastasis suppressor Nm23-H1. The Eunice and Irving Leopold Annual Scientific Symposium and Retreat (University of Pennsylvania Abramson Cancer Center, Philadelphia, USA) March 2006
33. **Rajeev Kaul**, Neelam Sheoran, Rahul Behl and Vijh, R.K. 2000. Animal genetic resources of India and impact of intellectual property rights thereon. Invited Paper presented in 'National Seminar on The Impact of IPR on Indian agriculture' held at Department of Humanities, Regional Engineering College, Kurukshetra, India on Nov. 18 & 19, 2000.
34. **Rajeev Kaul**, Kalra S.K. and Kumar A Inactivation of infectious bursal disease (IBD) virus with binary ethylenimine (BEI) and performance of BEI-inactivated virus as trapped antigen in sandwich blocking ELISA for monitoring anti-IBD antibody, 1999. Paper presented in XIXth annual conference of Indian Association of Veterinary Microbiologist, Immunologists & Specialists in Infectious diseases held at CCSHAU Hisar, India from October 22-24, 1999.