

Dr Samander Kaushik

M. Sc (Biotech), LL. B (Hons) Ph. D (AIIMS)

Assistant Professor

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EDUCATION	DOCTOR OF PHILOSOPHY (Ph. D) MICROBIOLOGY (VIROLOGY)	2010
	Ph. D from Department of Microbiology, All India Institute of Medical Sciences (AIIMS) , Ansari Nagar, New Delhi, 110029, INDIA. Thesis Title “ Antigenic and Molecular Characterization of Influenza Viruses from Acute Respiratory Infection – A Surveillance and Molecular study ”	
	MASTER OF SCIENCE (M. Sc) BIO-TECHNOLOGY	1999-2001
	Passed with first division from Department of Biosciences, Maharshi Dayanand University, Rohtak, Haryana, India	
	BACHELOR OF LAW -LL. B (Hons)	2013-2015
	Passed with first division from Department of Law, Maharshi Dayanand University, Rohtak, Haryana, India	
	BACHELOR OF SCIENCE (B. Sc)	1996-1999
CURRENT POSITION	Assistant Professor of Biotechnology, Centre for Biotechnology, M.D University, Rohtak (Haryana) Teaching: Virology, Animal-biotechnology and Animal Cell Culture	Aril 2010- Till Date
AWARDS	Senior Research Officer (SRO)	May 2009–Mar 2010
	Senior Research Fellow (ICMR, New Delhi)	Aug 2008 –Apr 2008
	Institute Fellowship (AIIMS, New Delhi)	Feb 2008 - July 2008
	Senior Research Fellow (CSIR/UGC)	Oct 2004 - Sept 2007
	Awarded Senior Research Fellowship from Council of Scientific and Industrial Research, Delhi, India.	
	Junior Research Fellow (CSIR/UGC)	Sept 2002 –Sept 2004
	Awarded Junior Research Fellowship from Council of Scientific and Industrial Research, Delhi, India.	

PROJECT	➤ Rapid Detection and Typing of Influenza A and B Viruses by Reverse Transcriptase- Loop-Mediated Isothermal Amplification (RT-LAMP) Funded by University Grant Commission, New Delhi ➤ Development of multiplex RT-PCR for Dengue Viruses Funded by Department of Science and Technology, Haryana (India) ➤ Department of Biotechnology Government of India (DBT-MDU) interdisciplinary Life Science Programme for advanced research and education ➤ To evaluate Protection of arsenic-induced oxidative stress, Mitochondrial oxidative damage and apoptotic cell death by Hydroxytyrosol in Rat Brain Two more projects are in pipeline.
TRAVEL GRANT	Received “Travel Grant” from “Indian Council of Medical Research, New Delhi” for attending the international conference” Options for Control of Influenza VI” held at Toronto, Ontario Canada in June 2007.
PUBLICATION	1. Sanjit Boora; Anish Khan; Kumari Soniya; Suman Yadav; Sulochana Kaushik; Ramesh Kumar; Sunil Chhikara; Samander Kaushik. Antiviral Potential of Medicinal Plants against Influenza Viruses: A Systematic Review Research Journal of Pharmacy and Technology (In Press) 2. Yashika Sharma, Sulochana Kaushik, Sanjit Boora, Pawan Kumar, Ajit Kumar, Jaya Parkash Yadav and Samander Kaushik. Antiviral Potential of Medicinal Plants for the COVID-19. Anti-Infective Agents Journal(In Press) 3. Sheetal Yadav, Sulochana Kaushik, Sunil Kumar Chhikara, Sandeep Singh, Jaya Parkash Yadav, Samander Kaushik. <i>Terminalia arjuna</i> (Arjun Tree): A sacred plant with high Medicinal and Therapeutic potential. Research Journal of Pharmacy and Technology (In Press) 4. Hooda Reetu, Baghla Neeru, Malik Nisha and Kaushik Samander. To evaluate the role of placental human papilloma virus (HPV) infection as a risk factor for spontaneous preterm birth: a prospective case control study. Journal of Perinatal Medicine. 2022 Jan 13. https://doi.org/10.1515/jpm-2021-0317

5. Soniya, K., Yadav, S., Boora, S., Kaushik, S., Yadav, J.P. and Kaushik, S., 2021. The Cat Que Virus: a resurfacing orthobunyavirus could lead to epidemics. *VirusDisease*, 32(4), pp.635-641.
6. Kumar Sukender, Garg Chanchal, Kaushik Samander, Buttar Harpal Singh, Garg Munish. Demystifying therapeutic potential of medicinal plants against chikungunya virus. *Indian J Pharmacol* 2021; 53: 403-11. [DOI:10.4103/ijp.IJP_81_20](https://doi.org/10.4103/ijp.IJP_81_20)
7. Soniya K, Yadav S, Boora S, Kaushik S, Yadav JP, Kaushik S. The Cat Que Virus: a resurfacing orthobunyavirus could lead to epidemics. *VirusDisease*. 2021 Oct 8:1-7. <https://doi.org/10.1007/s13337-021-00745-9>
8. Kaushik Sulochana, Lalit Dar, Samander Kaushik, and Jaya Parkash Yadav. "Anti-dengue activity of super critical extract and isolated oleanolic acid of *Leucas cephalotes* using in vitro and in silico approach." *BMC Complementary Medicine and Therapies* 21, no. 1 (2021): 1-15. <https://doi.org/10.1186/s12906-021-03402-2>
9. Khan, Anish, Ekta Kamra, Raj Singh, Vikrant Sharma, Vishwajeet Singh, Preeti Mor, **Samander Kaushik**, Aparna Yadav, and Promod K. Mehta. "Diagnosis of osteoarticular tuberculosis: multi-targeted loop-mediated isothermal amplification assay versus multiplex-PCR." *Future Microbiology* 0 (2021). <https://doi.org/10.2217/fmb-2021-0030>
10. Amit Kumar, Ganesh Chauhan, Shriram Sharma, Surekha Dabla, P.N Sylaja, Neera Chaudhary, Salil Gupta, Chandra Sekhar Agrawal, Kuljeet Singh Anand, Achal Kumar Srivastava, Profile Deepti Vibha, Ram Sagar, Ritesh Raj, Ankita Maheswari, Subbiah Vivek Anandhan, Bhavna Kaul, Samudrala Raghavan, Sankar Prasad Gorthi, Dheeraj Mohania, **Samander Kaushik**, Rohtas Kanwar Yadav, Anjali Hazarika, Pankaj Sharma, Kameshwar Prasad "Association of SUMOlation Pathway Genes With Stroke in a Genome-wide Association Study in India." *Neurology* (2021). **IF-9.9**
11. Kumar, Ramesh, Sumi Nandwani, and **Samander Kaushik**. "Green synthesized

Allium cepa nanoparticles with enhanced antiprotozoal activities for *E. gingivalis*." *Chemical Biology Letters* 7, no. 4 (2020): 247-250.

12. Kaushik, Samander, Yashika Sharma, Sulochana Kaushik, Jaya Parkash Yadav, and Minakshi Prasad. "Coronaviruses: Recent Trends and App. in Diagnosis and Management." *Adv. in Animal Disease Diagnosis*: 265-280. CRC Press
13. Prasad, Minakshi, Mayukh Ghosh, Harshad Sudhir Patki, Sandeep Kumar, Basanti Brar, Neelesh Sindhu, Parveen Goel, Samander Kaushik et al. "Imaging Techniques in Veterinary Disease Diagnosis." *In Advances in Animal Disease Diagnosis*, pp. 103-145. CRC Press.
14. Sharma, Yashika, Anubhuti Kawatra, Vikrant Sharma, Divya Dhull, Sulochana Kaushik, Jaya Parkash Yadav, and **Samander Kaushik**. "In-vitro and in-silico evaluation of the anti-chikungunya potential of *Psidium guajava* leaf extract and their synthesized silver nanoparticles." *VirusDisease* (2021): 1-6.
<https://doi.org/10.1007/s13337-021-00685-4>. **IF-0.4**
15. Kaushik, Sulochana, Lalit Dar, **Samander Kaushik**, and Jaya Parkash Yadav. "Identification and characterization of new potent inhibitors of dengue virus NS5 proteinase from *Andrographis paniculata* supercritical extracts on in animal cell culture and *in-silico* approaches." *Journal of Ethnopharmacology* 267 (2021): 113541. [DOI: 10.1016/j.jep.2020.113541](https://doi.org/10.1016/j.jep.2020.113541) **IF-4.3**
16. Kaushik, Sulochana, **Samander Kaushik**, Ramesh Kumar, Lalit Dar, and Jaya Parkash Yadav. "In-vitro and in-silico activity of *Cyamopsis tetragonoloba* (Gaur) L. supercritical extract against the dengue-2 virus." *Virusdisease* 31, no. 4 (2020): 470-478. <https://doi.org/10.1007/s13337-020-00624-9> **IF-0.4**
17. Kumar, Ramesh, Sumi Nandwani, Suman Nagpal, and Samandar Kaushik. "Green synthesized *Allium cepa* nanoparticles with enhanced antiprotozoal activities for *E. gingivalis*." *Chemical Biology Letters* 7, no. 4 (2020): 247-250.
<http://www.pubs.iscience.in/journal/index.php/cbl/article/view/1030>
18. Panda, Ashutosh, Bijay Ranjan Mirdha, Neha Rastogi, and **Samander Kasuhik**. Understanding the true burden of “*Naegleria fowleri*”(Vahlkampfiidae) in

patients from Northern states of India: Source tracking and significance. *European Journal of Protistology* 76 (2020): 125726. <https://doi.org/10.1016/j.ejop.2020.125726> **IF-3.02**

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20. Kaushik, Sulochana, Ginni Jangra, Vaibhav Kundu, Jaya Parkash Yadav, and **Samander Kaushik**. "Anti-viral activity of *Zingiber officinale* (Ginger) ingredients against the Chikungunya virus." *Virusdisease* 31, no. 3 (2020): 270-276. <https://doi.org/10.1007/s13337-020-00584-0> **IF-0.4**
21. Kumar, Ramesh, Suman Nagpal, **Samander Kaushik**, and Sanjay Mendiratta. "COVID-19 diagnostic approaches: different roads to the same destination." *Virusdisease* 31, no. 2 (2020): 97-105. <https://doi.org/10.1007/s13337-020-00599-7> **IF-0.4**
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23. Dhull Divya, Sharma Vikrant, Sharma Yashika and **Kaushik Samander**. Challenges associated with Herpes Simplex Virus isolation using Vero cell culture. *Res. J. Biotech* May (2020) Vol. 15 (5)
24. Soni Manisha, Prakash Chandra, **Kaushik Samander**, Chhikara Sunil Kumar and Kumar Vijay. Hydroxytyrosol improving metabolic response by amelioration of oxidative stress following arsenic exposure in rat liver *Research Journal of Biotechnology* Vol. 15 (9) September (2020) 104-112
25. Sharma, Vikrant, Manisha Sharma, Divya Dhull, Yashika Sharma, Sulochana Kaushik, and **Samander Kaushik**. "Zika virus: an emerging challenge to public health worldwide." *Canadian Journal of Microbiology* 66, no. 2 (2020): 87-98.

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27. Sharma, Vikrant, Manisha Sharma, Divya Dhull, Sulochana Kaushik, and **Samander Kaushik**. "Phylogenetic analysis of the hemagglutinin gene of influenza A (H1N1) pdm09 and A (H3N2) virus isolates from Haryana, India." *VirusDisease* 30, no. 3 (2019): 336-343. <https://doi.org/10.1007/s13337-019-00532-7> IF-0.4
28. Sulochana Kaushik, Vikrant Sharma, Sunil Chhikara, Jaya Parkash Yadav, and **Samander Kaushik**. 2019. "Anti-chikungunya activity of green synthesized silver nanoparticles using carica papaya leaves in animal cell culture model". *Asian Journal of Pharmaceutical and Clinical Research* 12 (6), 170-74. <https://doi.org/10.22159/ajpcr.2019.v12i6.32179>.
29. Sharma, Vikrant, Sulochana Kaushik, Pooja Pandit, Divya Dhull, Jaya Parkash Yadav, and **Samander Kaushik**. "Green synthesis of silver nanoparticles from medicinal plants and evaluation of their antiviral potential against chikungunya virus." *Applied microbiology and biotechnology* 103, no. 2 (2019): 881-891. <https://doi.org/10.1007/s00253-018-9488-1> IF-4.81
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Kaushik, S. "Role of Blood Based Biomarkers for Predicting Outcome after Spontaneous Intracerebral Hemorrhage: Findings from a Multi-Centric Prospective Cohort Study (P2. 239)." (2018).

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<https://doi.org/10.9734/IBRR/2017/34463>
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<https://doi.org/10.9734/IBRR/2017/31171>
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38. Panda, Ashutosh, Shehla Khalil, Bijay Ranjan Mirdha, Yogita Singh, and **Kaushik Samander**. "Prevalence of Naegleria Fowleri in environmental samples from northern part of India." *PloS one* 10, no. 10 (2015).[doi: 10.1371/journal.pone.0137736](https://doi.org/10.1371/journal.pone.0137736) **IF-3.24**
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multiplex RT-PCR with virus isolation for detection, typing and sub-typing of influenza virus from influenza-like illness cases." *Indian journal of medical microbiology* 33, no. 1 (2015): 73. [DOI: 10.4103/0255-0857.148383](https://doi.org/10.4103/0255-0857.148383)

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BOOK	➤ Standardize Avian Influenza Diagnosis in referral Laboratories in India Published by WHO. ➤ Prasad M, Ghosh M, Patki HS, Kumar S, Brar B, Sindhu N, Goel P, Kaushik S, Mohan H, Syed S, Kumar R. Imaging Techniques in Veterinary Disease Diagnosis. In <i>Advances in Animal Disease Diagnosis</i> 2021 Jun 15 (pp. 103-145). CRC Press. ➤ Kaushik S, Sharma Y, Kaushik S, Yadav JP, Prasad M. Coronaviruses: Recent Trends and Approaches in Diagnosis and Management. <i>Advances in Animal Disease Diagnosis</i>. 2021 Jun 15:265-80.
TECHNICAL CAPABILITIES	Sample Collection: ❖ Hands-on experience in sample collection for respiratory viruses from hospitals as well as field studies. ❖ Filling the questionnaire and data management related to the recruited patients

	as well as community population. Virological: ❖ Influenza Virus Isolation. ❖ Dengue and other falvivirus isolation ❖ Hemagglutinin Assay (HA) ❖ Hemagglutinin Inhibition Assay (HI) ❖ IFA & DFA ❖ TCID₅₀ Determination Spectroscopic Techniques: ❖ UV-vis, Fluorescence. Molecular Biology: ❖ DNA, RNA, isolation from Clinical sample. ❖ RNA isolation by GT Method, Compact MegnaPure Roche, Commercial kits ❖ Polymerase Chain Reaction (Simple, Multiplex) ❖ Cloning, Plasmid Isolation ❖ Restriction Digestion analysis. ❖ DNA Purification from agarose gel as well as from PCR Product. ❖ Real-Time RT –PCR. ❖ RT-LAMP ❖ Other medical diagnostic techniques Animal Cell Culture: ❖ Media Preparation. ❖ Maintenance of various cell lines (MDCK, HEP-II). ❖ Virus Isolation ❖ Virus characterization
WORKSHOPS, SYMPOSIAS AND PRESENTATION	❖ One Week Short-Term Training course on “Advanced Analytical Instrumentation Techniques” was held at Human Resource Development Centre, Guru Jambheshwar University, Hisar during 10.12.2018 to 15.12.2018. ❖ Dr Samander Kaushik organizing as organizing secretary for one-day National Conference & Workshop on the “Emerging Infectious Diseases” on 27th Nov 2017 sponsored by Dr Radha Krishan Foundation at Central for Biotechnology,

	Maharshi Dayanand University, Rohtak ❖ Participate in the Workshop on “Molecular Virological Techniques for Dengue and Chikungunya” being held at National Institute of Virology (NIV), Pune during June 22 - July 10, 2015 ❖ Attend the 12th Workshop on ‘Molecular Virology’ being held during March 20 to March 31, 2015 at Indian Institute of Science, Bangalore India. ❖ International Research colloquium on Adv. in Microbial Biotech: Prospects (AMBF-2012) Department of Microbiology, MDU, Rohtak 20th Nov. 2012 ❖ Participated in National Symposium” Fight against Malaria: Prospects and Perspectives” organized by Centre for Medical Biotechnology, M.D. University (09.03.2013) ❖ Advance in Electron Microscopy in Virology Research & 3D Imaging workshop 20-21 October 2012 NIV, Pune ❖ National Seminar on Recent advancement in Application of Genetics organized on March 20, 2012 by Dept. of Genetics, MDU Rohtak ❖ Participate in the five days DST-Inspire programme from April 28-May2, 2012 organized by the Centre for Biotechnology, MDU Rohtak ❖ Participate in the CME on “Arboviral Infections of Public Health Concern “organized 3-5 September 2012 by PGIMER Chandigarh. ❖ Samander kaushik, shivram Dhakad, Muneer Renu lal, AC Mishra, Manpreet Chadha Shobha Broor: Real time RT-PCR for the Detection and typing of Seasonal influenza viruses and its comparison with Virus Isolation IAMM, MICROCON 2009 organized on Nov 5-8, 2009 by JSS MC, Mysore. ❖ Shivram Dhakad, Samander kaushik Muneer Shobha Broor: Comparision of Influenza virus detection and typing by virus isolation and RT-PCR IAMM, <u>MICROCON 2009</u> organized on Nov 5-8, 2009 by JSS MC, Mysore. ❖ Samander Kaushik, Preeti Bharaj, Shivram Dhakad, Priti Jain, Rajender Kumar Shobha Broor; Influenza Virus Strains Circulating in and around New Delhi During Dec 2004-Sept 2008. XVIII National Conference of Indian Virological Society, Chandigarh, India, Dec 2008. ❖ Bharaj, P.; Broor, S.; Dhakad, S.; Kaushik, S.; Jain, P.; Kabra, S.K. Multiplex
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	RT-PCR for typing and subtyping of human influenza virus during a surveillance study. Third European Influenza Conference 14-17 September 2008 at the Tivoli Marina Vilamoura hotel, Vilamoura, Portugal. ❖ Preeti Bharaj, Harender Singh Chahar, Samander Kaushik Priti Jain, S.K Kabra, WayneSullender, Shobha Broor; Development of Multiplex RT-PCR For Detection of Viruses in Acute Lower Respiratory Tract Infections in Children at XVIII National Conf of Indian Viro Society, Chandigarh, India, Dec 2008. ❖ Diddi K, Samander Kaushik, Shobha Broor; Concomitant outbreak of Chikungunya and Dengue Fever, India. at XVIII National Conference of Indian Virological Society, Chandigarh, India, Dec 2008. ❖ Samander Kaushik, Preeti Bharaj, Shobha Broor; Surveillance of Human Influenza Virus Strains Circulating in New Delhi. Options for Control of Influenza VI” held at Toronto, Ontario Canada in June 2007. ❖ Samander Kaushik, Preeti Bharaj, Shobha Broor; Surveillance of Human Influenza Virus Strains Circulating in National Capital of India. At Asia Pacific Congress of Medical Virology, New Delhi, India. ❖ Broor S Bharaj, P. and Kaushik S. 2007. Comparison of Influenza Virus Typing by Hemagglutinin Inhibition Assay and RT-PCR Options for the Control of Influenza VI. Toronto, Canada ❖ Samander Kaushik, Preeti Bharaj, Shobha Broor; Influenza Virus Surveillance in New Delhi. At XXIX National Congress of Indian Association of Medical Microbiologists, Chennai, India. ❖ Attended the “Training Program to Control AIDS” at department of Microbiology, All India Institute of Medical Sciences, New Delhi, Feb 2009. ❖ Attended a workshop organized by NIV-ICMR-CDC on “Real-time RT-PCR for detection of Human and Avian Influenza Viruses” at National Institute of Virology, Pune, October 2007. ❖ Attended a workshop organized by NIV-ICMR-CDC on “Influenza Viruses Strain Surveillance” at National Institute of Virology, Pune, January 2007 ❖ Attended a National Symposium on “Nano-technology in Medicine” at All India Institute of Medical Sciences, New Delhi, and January 2007.
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	❖ Participated in the WHO Meeting “Expert Group Meeting to standardize Avian Influenza Diagnosis in referral Laboratories in India” at National Institute of Virology, Pune, April 2006. ❖ Participated in the AIIMS Golden Jubilee celebrations conference on “HIV/AIDS and TB” held at AIIMS, New Delhi, India. In January 2006. ❖ Attended a workshop organized by NIV-ICMR-CDC on “Influenza Viruses Strain Surveillance” at National Institute of Virology, Pune, July 2004 ❖ INDO- US SYMPOSIUM- 2006 on Viral Diagnostics, Epidemiology and Pathogenesis, AIIMS, New Delhi, India, Nov. 2006. ❖ Attended Symposium on Stem Cell Applications organized at AIIMS, New Delhi, India (August 2008).
PERSONAL DETAILS	Name : Dr Samander Kaushik Date of Birth : August 10, 1975 Nationality : Indian Sex : Male Marital Status : Married Language Know : English & Hindi Present Designation : Assistant Professor Department : Centre for Biotechnology Room Number : Room No 217, CBT, 1st floor Institute : M. D University, Rohtak (Haryana) Contact number : 09017733717
REFERENCES	Prof. Shobha Broor Department of Microbiology, All India Institute of Medical Sciences, New Delhi-110029, INDIA Phone: +91-9958968787 Fax: +91-11-2658-8663 e-mail: shobhabroor@gmail.com Dr Lalit Dar

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Google scholar Link:

<https://scholar.google.co.in/citations?user=yk6uuu8AAAAJ&hl=en>

Scopus Link:

<https://www.scopus.com/results/authorNamesList.uri?st1=kaushik&st2=samander&origin=searchauthorlookup>

Pubmed Link: <https://www.scopus.com/search/form.uri?display=basic#basic>