Dr Samand M. Sc (Biotech), Assistant Professo Centre for Biotec M.D. University F Mobile Number +9 Email: samanderkan	LL. B (Hons) Ph. D (AIIMS) Or Phnology (CBT) Rohtak, Haryana 01 09017733717		
	DOCTOR OF PHILOSOPHY (Ph. D)	2010	
	MICROBIOLOGY (VIROLOGY)	2010	
	Ph. D from Department of Microbiology, All India Institu	te 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 Mol	ecular study"	
EDUCATION	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	
	Assistant Professor of Biotechnology, Centre for	Aril 2010- Till Date	
CURRENT	Biotechnology, M.D University, Rohtak (Haryana)		
POSITION	Teaching: Virology, Animal-biotechnology and Animal Cell Culture		
	Senior Research Officer (SRO)	May 2009–Mar 2010	
	Senior Research Fellow (ICMR, New Delhi)		
AWARDS	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 Hydroxytryosol in Rat Brain		
	Two more projects are in pipeline.		
TRAVEL	Received "Travel Grant" from "Indian Council of Medical Research, New Delhi"		
GRANT	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. Terminalia arjuna (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. <u>https://doi.org/10.1515/jpm-2021-0317</u>		

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- 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
- 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. <u>https://doi.org/10.1007/s13337-021-00745-9</u>
- 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. <u>https://doi.org/10.1186/s12906-021-03402-2</u>
- 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. <u>https://doi.org/10.1007/s13337-021-00685-4</u>. 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 IF-4.3
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- 17. Kumar, Ramesh, Sumi Nandwani, Suman Nagpal, and Samandar Kaushik. "Green synthsized Allium cepa nanoparticles with enhanced antiprotozoal activities for *E. gingivalis.*" *Chemical Biology Letters* 7, no. 4 (2020): 247-250. <u>http://www.pubs.iscience.in/journal/index.php/cbl/article/view/1030</u>
- 18. Panda, Ashutosh, Bijay Ranjan Mirdha, Neha Rastogi, and **Samander Kasuhik**. Understanding the true burden of "*Naegleria fowleri*"(Vahlkampfiidae) in

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

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- 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
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- 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. <u>https://doi.org/10.1007/s00253-018-9488-1</u> 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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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

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воок	 published by WHO, Dec 2007. 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 Advances in Animal Disease Diagnosis 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. Advances in Animal Disease Diagnosis. 2021 Jun 15:265-80.
	 Sample Collection: Hands-on experience in sample collection for respiratory viruses from hospitals
TECHNICAL	as well as field studies.
CAPABILITIES	 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 Insistay (HI) 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 	
	◆ One Week Short-Term Training course on "Advanced Analytical Instrumentation	
WORKSHOPS,	Techniques" was held at Human Resource Development Centre, Guru	
SYMPOSIAS	Jambheshwar University, Hisar during 10.12.2018 to 15.12.2018.	
AND	◆ Dr Samander Kaushik organizing as organizing secretory for one-day National	
PRESENTATION	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

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; Concomtant 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.

	✤ 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	"HIV/AIDS and TB" held at AIIMS, New Delhi, India. In January 2006.			
	✤ Attended a workshop org	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	Pathogenesis, AIIMS, New Delhi, India, Nov. 2006.			
	✤ Attended Symposium on Stem Cell Applications organized at AIIMS, New Delhi,				
	India (August 2008).	India (August 2008).			
	Name	:	Dr Samander Kaushik		
	Date of Birth	:	August 10, 1975		
	Nationality	:	Indian		
	Sex	:	Male		
PERSONAL	Marital Status	:	Married		
DETAILS	Language Know	:	English & Hindi		
DETAILS	Present Designation	:	Assistant Professor		
	Department	:	Centre for Biotechnology		
	Room Number	:	Room No 217, CBT, 1 st floor		
	Institute	:	M. D University, Rohtak (Haryana)		
	Contact number	:	09017733717		
	Prof. Shobha Broor				
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