

# **CURRICULUM VITAE**

## **OF**

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- *Secretary, Medical Virology, Indian Virological Society (IVS),*
- *Executive Committee Member, Indian Virological Society (IVS),*
- *Member, The International Committee on Taxonomy of Viruses (ICTV),*
- *Member, The World Society for Virology*
- *Editor-in-Chief, VirusDisease, Springer Nature*
- *Editor, Infection, Genetics and Evolution, Elsevier B.V.*
- **List of Publications:**  
[https://pubmed.ncbi.nlm.nih.gov/?term=Saxena+SK&cauthor\\_id=33962011](https://pubmed.ncbi.nlm.nih.gov/?term=Saxena+SK&cauthor_id=33962011)
- **Brief biography:**  
<https://www.intechopen.com/profiles/158026>

## Prof. (Dr.) Shailendra Saxena

King George's Medical University



Prof. (Dr.) Shailendra Saxena, is Vice Dean, Professor & Head at Centre for Advance Research (CFAR), King George's Medical University (KGMU), and Ex-Senior Scientist & Leader (on lien) of Infectious Diseases (Molecular Virology and Immunobiology) at CSIR-Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India, a constituent national laboratory of the Council of Scientific and Industrial Research (CSIR, Ministry of Science and Technology, Govt. of India). He distinguished himself in Molecular Virology and Immunobiology (infectious diseases) profession and has gained worldwide recognition for his immense contributions in eradication of various infectious diseases. His researches are revolutionary in context, for they seek to free the earth from the malaise of the dangerous viruses that have killed millions of people year after year. He has contributed to research on various emerging and re-emerging viruses like

Japanese encephalitis virus (JEV), HIV, Chikungunya virus, Poliovirus, Hepatitis, Swine flu, Ebola, Zika virus etc. He made excellent original contribution to our understanding the mechanism of host defense including development of new therapeutic strategies against Japanese encephalitis virus (JEV) and infection and exhibited outstanding potential in academic and research career in Molecular Virology and Immunobiology (infectious diseases). Dr Saxena has received excellent training in Molecular Virology and Immunobiology (infectious diseases) and human Infectious Diseases with original focus on JEV in his doctoral dissertation at King George's Medical College, Lucknow, India; research experience with polio virus under the Global Polio Eradication Program of World Health Organization; Hepatitis E virus at United Nation's International Centre for Genetic Engineering and Biotechnology, New Delhi, India; Human immunodeficiency virus (HIV/AIDS) at College of Medicine, University of Arizona, Tucson (USA), and professionally trained in Biosafety and Biosecurity (BSL3 and 4) in various countries.

The main research interests of Professor Shailendra Saxena are to understand the epidemiology and molecular mechanisms of host-defense during human viral infections and to develop new predictive, preventive and therapeutic strategies (*J Med Virol* 2021 (in collaboration with WSV); *Methods* 2021; *ACS Pharmacol. Transl. Sci.* 2021; *ACS Chem. Neurosci.* 2020; *Future Microbiol.* 2019; *Future Microbiol.* 2019; *Travel Med Infect Dis.* 2019; *Biomol Concepts.* 2018; *J Drug Target.* 2017; *VirusDisease* 2016; *ACS Chem. Neurosci.* 2015; *J. Neuroinflammation.* 2015; *Molecular Brain* 2014; *Nanomedicine* 2012; *Fut. Virol.* 2009; *AVCC* 2003) for them using Japanese encephalitis (JE) virus (*Proc. Natl. Acad. Sci. Sect B. Biol. Sci.* 2012; *Nature Med.* 2006; *BMJ* 2005); and HIV (*Science.* 2012; *PNAS USA* 2006 and acclaimed as one of the **Top 100 Most Influential Publications** globally in the nucleic acid field), as a model. His studies on the influence of genes that control the pathogenesis of AIDS following HIV infection, has resulted in a first authored presentation (entitled "Risk of HIV/AIDS in vanishing tribes of Andaman and Nicobar, India. (*Indian J. Virol.* 2006) awarded the International Best Scientific Poster Award (2006) for outstanding research from the Indian Virological Society. He identified the mechanism that explains the faster progression of AIDS in HIV-1 infected newborns and infants than in adults, and demonstrated "Differential HIV-1 replication in neonatal and adult blood mononuclear cells is influenced at the level of HIV-1 gene expression" (*Proc. Natl. Acad. Sci. USA* 2006; and acclaimed as **Top 100 Most Influential Publications** in nucleic acid field in 2006).

His results bring us closer to developing new and effective preventive and treatment methods for AIDS by targeting cellular factors that support efficient HIV-1 growth in neonates. Evidences of his scientific contributions are supported by several books (<https://www.intechopen.com/profiles/158026>), book chapters, and numerous first authored/corresponding author papers in quality peer-reviewed international journals with high impact factor; moreover thirteen outstanding technical reports/reviews/book chapters and more than twenty five abstracts published in journals/proceedings. He has been invited to present his research work in various conferences abroad. His group is internationally recognized for its research on human RNA viruses and therapeutics. His research work not only has been published in various high impact factor journals, but also has high citation (<https://www.scopus.com/authid/detail.uri?authorId=7402626270>) by numerous investigators globally in various peer-reviewed journals and prestigious books and monographs.

He is a member of several international learned academies/societies including *Indian Virological Society, New York Academy of Sciences, The American Society for Microbiology, The American Society for Virology, The British Science Association (UK), International Society for Antiviral Research (USA), International Society of Applied Biology, Academy of Environmental Biology*, etc. and honored by several prestigious National and International Awards, Fellowships and Scholarships in India and abroad. He is recipient of various **Young Scientist Medal Awards** viz. of **BRSI; Academy of Environmental Biology; and Dept. of Science & Technology (UP), ABAP Senior Scientist Award; GMB Investigator in Vector and Vector Borne Disease Award** for outstanding pioneer contribution to scientific research in Biomedical Sciences. Prof Saxena has been elected Fellow of **The Royal College of Pathologists, United Kingdom; The Royal Society of Medicine, London, UK, The Royal Society of Chemistry London (FRSC), The Royal Society of Biology UK (FRSB), The Academy of Environmental Biology, India (FAEB), Indian Virological Society (FIVS), The Biotech Research Society, India (FBRS), Fellowship of the (European) Academy of Translational Medicine Professionals, Austria (FacadTM); and Elected Full Member of Sigma Xi, The Scientific Research Society (USA)**. He has been selected for **Fogarty International Center, National Institutes of Health, USA, funded HIV/AIDS prevention research MERIT Fellowship**. He was chosen among top participants throughout the world for his outstanding innovative research yielding the discovery of a novel therapeutic agent against JEV and was awarded by the **International Society for Antiviral Research (USA)**. **The Scientist magazine (USA)** has recognized him as “**Global Leader in Science**” and International Pharmaceutical Industry Consultants (UK) has recognized him “**International Opinion Leader / Expert**” involved in the vaccination for Japanese encephalitis. He has been awarded **Dr. JC Bose National Award of Department of Biotechnology (DBT, Min. of Science & Technology, Govt. of India); KGMU-Academic Excellence Award; Springer Nature Award 2018**. Moreover, **Springer Nature** is bringing his new series of Books and has active collaboration with US universities.

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- *Executive Committee Member, Indian Virological Society (IVS),*
- *Member, The International Committee on Taxonomy of Viruses (ICTV),*
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- *Editor-in-Chief, VirusDisease, Springer Nature*
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- **Brief biography:** <https://www.intechopen.com/profiles/158026>

- **List of Publications:**

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- **Selected Books & Book Chapters:**

**A. BOOKS:**

1. Mohanty SN, Saxena S.K, Satpathy S, Chatterjee JM. (Ed.). *“Applications of Artificial Intelligence in COVID-19”* 2021. Springer Nature (under Book Series: *Medical Virology: From Pathogenesis to Disease Control*; Series ISSN 2662-981X) Paperback: 615 pages.
2. Saxena S.K. (Ed.). *“Innate Immunity in Health and Disease”* 2021. ISBN: 978-1-83880-766-5. IntechOpen Ltd., London (UK). Paperback: 400 pages.
3. Saxena S.K. (Ed.). *“Coronavirus Disease 2019 (COVID-19)”* 2020. ISBN: 978-981-15-4813-0. Springer Nature (under Book Series: *Medical Virology: From Pathogenesis to Disease Control*; Series ISSN 2662-981X) Paperback: 223 pages.
4. Saxena S.K., Khurana SMP. (Ed.). *“NanoBioMedicine”* 2020. ISBN: 978-981-32-9897-2. Springer Nature. Paperback: 153 pages.
5. Saxena S.K. (Ed.). *“Water-Associated Infectious Diseases”* 2020. ISBN: 978-981-13-9196-5. Springer Nature Singapore. Paperback: 153 pages.
6. Saxena S.K. (Ed.). *“Current Perspectives in Human Papillomavirus”* 2019. Print ISBN: 978-1-78985-821-1. doi: 10.5772/intechopen.73828. IntechOpen Ltd., London (UK). Paperback: 134 pages.
7. Saxena S.K. (Ed.). *“Influenza - Therapeutics and Challenges”*. 2018. Print ISBN: 978-1-78923-714-6. doi: 10.5772/intechopen.71939. IntechOpen Ltd., London (UK). Paperback: 164 pages.
8. Saxena S.K. (Ed.). *“Proof and Concepts in Rapid Diagnostic Tests and Technologies”*. 2016. Print ISBN 978-953-51-2580-8. doi: 10.5772/61405. InTech, Croatia (Europe). Paperback: 170 pages.
9. Saxena S.K. (Ed.). *“Advances in Molecular Retrovirology”*. 2016. ISBN 978-953-51-2261-6. doi: 10.5772/60583. InTech, Croatia (Europe). Paperback: 198 pages.
10. Saxena S.K. & Manchanda R. *“Handbook of Recent Trends in Homeopathy for Infectious Diseases in India and Abroad”* 2016. ISBN 978-93-81458-38-9. Ministry of Ayush, Govt. of India. Paperback: 102 pages.
11. Saxena S.K. (Ed.). *“Trends in Infectious Diseases”*. 2014. ISBN 978-953-51-1312-6. doi: 10.5772/57062 InTech, Croatia (Europe). Paperback: 214 pages.
12. Saxena S.K. (Ed.). *Current Perspectives in HIV Infection*. 2013. ISBN 978-953-51-1057-6. doi: 10.5772/46042. InTech, Croatia (Europe). Paperback: 491 pages.
13. Saxena S.K. [Viruses of Today are Gifts of Tomorrow]. 2008. ISBN 978-819-06-1273-9. BRVS Publications DDN, 2008 (1<sup>st</sup> Ed.). Paperback. [Hindi]. Received DBT-National Award “Dr. Jagdish Chandra Bose Puraskar-2009”
14. Saxena S.K. and Chaudhuri K. *Textbook of Molecular Biology* (ISBN: 978-817-99-3320-6). TERI Publications; Paperback: 615 pages (*in press*).
15. Saxena S.K. et al. *Textbook of Virology*. TERI Publications (*in press*).

**B. BOOK CHAPTERS:**

16. Srivastava N, Saxena S.K.† (2022). Microbicidal Nanoparticles. Thakur A. et al. (Eds): Synthesis and Applications of Nanoparticles, 978-981-16-6818-0, 508749\_1\_En, (*in press*). Springer Nature, Singapore.
17. Srivastava N, Mishra G, Saxena S.K.† (2022). Environmental Nanomedicine. Thakur A et al. (Eds): Synthesis and Applications of Nanoparticles, 978-981-16-6818-0, 508749\_1\_En, (*in press*). Springer Nature, Singapore.
18. Saxena S.K. et al. (2021) Use of mobile phone apps for contact tracing to control the COVID-19 pandemic: A literature review. In: Mohanty S. et al. (eds). Applications of Artificial Intelligence in COVID-19. Springer Nature, Singapore.
19. Saxena S.K. et al. (2021) Artificial intelligence-enabled prognosis technologies for SARS-CoV-2/COVID-19. In: Mohanty S. et al. (eds.). Applications of Artificial Intelligence in COVID-19. Springer Nature, Singapore.

20. Kar S.K., Kabir R., Menon V., Arafat S.M.Y., Prakash A.J., **Saxena S.K.**<sup>†</sup> (2021) Artificial intelligence in mental healthcare during COVID-19 pandemic. In: Mohanty S. et al. (eds). Applications of Artificial Intelligence in COVID-19. Medical Virology: From Pathogenesis to Disease Control. Springer, Singapore.
21. Kumar S., Nyodu R., Maurya V.K., **Saxena S.K.**<sup>†</sup> (2021). Pathogenesis and host immune response during Japanese encephalitis virus infection, In: Saxena & Prakash (eds). Innate Immunity in Health and Disease, IntechOpen, UK.
22. Kumar S., Nyodu R., Maurya V.K., **Saxena S.K.**<sup>†</sup> (2021) Zika virus disease: progress and prospects. In: Ahmad (eds). Human Viruses: Diseases, Treatments and Vaccines. Springer Nature, Cham.
23. Dwivedi D.K., Parihar A., Kohli N., Dandu H.R., **Saxena S.K.**<sup>†</sup> (2020) Radiological perspective of the Novel Coronavirus Disease 2019 (COVID-19). In: Chandra & Roy (eds). Diagnostic Strategies for COVID-19 and other Coronaviruses. Springer, Singapore.
24. Srivastava A., Gupta T., Kumar S., **Saxena S.K.**<sup>†</sup> (2020) Next-generation rapid advanced molecular diagnostics of COVID-19 by CRISPR-Cas. In: Chandra P., Roy S. (eds) Diagnostic Strategies for COVID-19 and other Coronaviruses. Springer, Singapore.
25. Tripathy S, Kabir R, Arafat SY, **Saxena S.K.**<sup>†</sup> Futuristic technologies for advanced detection, prevention, and control of COVID-19. In Diagnostic Strategies for COVID-19 and other Coronaviruses 2020 (161-173). Springer, Singapore.
26. Tripathy S, Arafat SY, Kar SK, **Saxena S.K.**<sup>†</sup> Negative COVID-19 test: what next?. In Diagnostic Strategies for COVID-19 and other Coronaviruses 2020 (189-199). Springer, Singapore.
27. Padhi A., Kumar S., Gupta E., **Saxena S.K.**<sup>†</sup> (2020) Laboratory diagnosis of novel coronavirus disease 2019 (COVID-19) Infection. In: Saxena S. (eds) Coronavirus Disease 2019 (COVID-19). Medical Virology: From Pathogenesis to Disease Control. Springer, Singapore. [https://doi.org/10.1007/978-981-15-4814-7\\_9](https://doi.org/10.1007/978-981-15-4814-7_9)
28. Kumar, S., Nyodu, R., Maurya, V. K., & **Saxena S.K.**<sup>†</sup> (2020). Morphology, genome organization, replication, and pathogenesis of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Coronavirus Disease 2019 (COVID-19): Epidemiology, Pathogenesis, Diagnosis, and Therapeutics, 23-31. [https://doi.org/10.1007/978-981-15-4814-7\\_3](https://doi.org/10.1007/978-981-15-4814-7_3)
29. Ankita, Kaur, A., & **Saxena S.K.**<sup>†</sup> (2020). COVID-19: An ophthalmological update. Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics, 81-93.
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39. Saxena, R., & Saxena S.K.<sup>†</sup> (2020). Preparing children for pandemics. *Coronavirus disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 187-198.
40. Chawla, S., & Saxena S.K.<sup>†</sup> (2020). Preparing for the perpetual challenges of pandemics of coronavirus infections with special focus on SARS-CoV-2. *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 165-186.
41. Maurya, V. K., Kumar, S., Bhatt, M., & Saxena S.K.<sup>†</sup> (2020). Therapeutic development and drugs for the treatment of COVID-19. *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 109-126.
42. Kumar, S., Nyodu, R., Maurya, V. K., & Saxena S.K.<sup>†</sup> (2020). Host immune response and immunobiology of human SARS-CoV-2 infection. *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 43-53.
43. Saxena S.K.<sup>†</sup>, Maurya VK., Kumar S., Bhatt MLB. (2020). Recent advances in Nipah virus infection and its therapeutic management. In *“Animal-origin Viral Zoonoses” (Book)*, Y.S. Malik et al. (Eds.), ISBN: 978-981-15-2650-3. Springer Nature Singapore. (In press).
44. Saxena S.K.<sup>†</sup>, Maurya VK., Kumar S., Bhatt MLB. (2020). Recent advances in Nipah virus infection and its therapeutic management. In *“Animal-origin Viral Zoonoses” (Book)*, Y.S. Malik et al. (Eds.), ISBN: 978-981-15-2650-3. Springer Nature Singapore. (in press).
45. Saxena S.K.<sup>†</sup>, Maurya VK., Kumar S., Bhatt MLB. (2020). Pandemic Influenza A virus (pH1N1): an overview of prevention and treatment. In *“Animal-origin Viral Zoonoses” (Book)*, Y.S. Malik et al. (Eds.), ISBN: 978-981-15-2650-3. Springer Nature Singapore. (in press).
46. Saxena S.K.<sup>†</sup>, Kumar S., Haikerwal A., (2020). Animal Flaviviruses (doi: 10.1007/978-981-15-0402-0\_7). In *“Emerging and Transboundary Animal Viruses, Livestock Diseases and Management” (Book)*, Y.S. Malik et al. (Eds.), ISBN: 978-981-15-0401-3. Springer Nature Singapore. 137-159.
47. Saxena S.K.<sup>†</sup>, Nyodu R., Kumar S., Maurya VK (2020). Current advances in nanotechnology and medicine. (doi. 10.1007/978-981-32-9898-9\_1). In *“NanoBioMedicine” (Book)*, S.K. Saxena, SMP. Khurana (Eds.), ISBN: 978-981-32-9897-2. Springer Nature Singapore. 3-16.
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51. Saxena S.K.<sup>†</sup>, Kumar S., Haikerwal A., Maurya VK. (2020). Introduction to water-associated infectious diseases. (doi. 10.1007/978-981-13-9197-2\_1). In *“Water-Associated Infectious Diseases” (Book)*, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 1-3.
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64. **Saxena S.K.<sup>†</sup>**, Kumar S., Maurya VK., Bhatt MLB. (2019). The global distribution and burden of dengue and Japanese encephalitis co-infection in acute encephalitis syndrome (doi: 10.5772/intechopen.89792). In **“Current Topics in Neglected Tropical Diseases”**, A.J. Rodriguez-Morales (Ed.), IntechOpen Ltd., London (UK). 21-30.
65. **Saxena S.K.<sup>†</sup>**, Kumar S., Goel MM, Kaur A, Bhatt MLB. (2019). Recent advances in Human papillomavirus infection and management (doi: 10.5772/intechopen.81970). In **“Current Perspectives in Human Papillomavirus” (Book)**, S.K. Saxena (Ed.), ISBN: 978-1-78923-889-1. IntechOpen Ltd., London (UK). 2-14.
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