

# **CURRICULUM VITAE**

## **OF**

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- *Secretary, Medical Virology, Indian Virological Society (IVS),*
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- *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**

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**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.

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.

- *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*
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- **Brief biography:** <https://www.intechopen.com/profiles/158026>

- **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)

- **Selected Books & Book Chapters:**

**A. BOOKS:**

1. Saxena S.K. (Ed.). *“Viral Outbreaks - Global Impact and Newer Horizons”* 2023. ISBN: 978-1-83768-165-5. IntechOpen Ltd., London (UK). Paperback: 156 pages.
2. Chatterjee JM. Saxena S.K, (Ed.). *“Artificial Intelligence in Medical Virology”* 2023. ISBN: 978-981-99-0368-9. Springer Nature Singapore. Paperback: 189 pages.
3. Saxena S.K. (Ed.). *“High-Throughput Screening for Drug Discovery”* 2022. ISBN: 978-1-83962-948-8. IntechOpen Ltd., London (UK). Paperback: 128 pages.
4. Saxena S.K. (Ed.). (2022). *“Drug Repurposing - Molecular Aspects and Therapeutic Applications”*. IntechOpen. ISBN978-1-83969-957-3. doi: 10.5772/intechopen.95190
5. 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.
6. Saxena S.K. (Ed.). *“Innate Immunity in Health and Disease”* 2021. ISBN: 978-1-83880-766-5. IntechOpen Ltd., London (UK). Paperback: 400 pages.
7. 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.
8. Saxena S.K., Khurana SMP. (Ed.). *“NanoBioMedicine”* 2020. ISBN: 978-981-32-9897-2. Springer Nature. Paperback: 153 pages.
9. Saxena S.K. (Ed.). *“Water-Associated Infectious Diseases”* 2020. ISBN: 978-981-13-9196-5. Springer Nature Singapore. Paperback: 153 pages.
10. 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.
11. 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.
12. 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.
13. 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.

14. 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.
15. 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.
16. 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.
17. 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].

#### B. BOOK CHAPTERS:

18. Saxena S.K.<sup>†</sup>, Shukla S, Kumar S, Maurya VK, Ansari S. (2023). Recent Trends in Emerging and Reemerging Viral Contagions - The Day after Today. Viral Outbreaks - Global Impact and Newer Horizons. IntechOpen; UK.
19. Saxena S.K.<sup>†</sup>, Maurya VK, Ansari S, Kumar S, Maurya S, Gupta A, et al. (2022). High-Throughput Screening - A New Tool for Precision Medicine. High-Throughput Screening for Drug Discovery. IntechOpen; UK.
20. Gupta A, Kumar S, K. Maurya V, Puri B, K. Saxena S.K.<sup>†</sup> (2022). High-Throughput Screening for Drug Discovery toward Infectious Diseases: Options and Challenges. High-Throughput Screening for Drug Discovery. IntechOpen; UK.
21. Gupta A, Theengh A, Kumar S, K. Maurya V, Kumar S, Puri B, Saxena S.K.<sup>†</sup> (2022). Trends in Molecular Aspects and Therapeutic Applications of Drug Repurposing for Infectious Diseases [Internet]. Drug Repurposing - Molecular Aspects and Therapeutic Applications. IntechOpen; UK.
22. Srivastava N, Saxena S.K.<sup>†</sup> (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.
23. Srivastava N, Mishra G, Saxena S.K.<sup>†</sup> (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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.

33. 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)
34. 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)
35. 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.
36. Kar, S. K., Verma, N., & **Saxena S.K.<sup>†</sup>** (2020). Coronavirus infection among children and adolescents. *coronavirus disease 2019 (COVID-19): Epidemiology, Pathogenesis, Diagnosis, and Therapeutics*, 71-79.
37. Kar, S. K., Yasir Arafat, S. M., Kabir, R., Sharma, P., & **Saxena S.K.<sup>†</sup>** (2020). Coping with mental health challenges during COVID-19. *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 199-213.
38. Yadav, T., & **Saxena S.K.<sup>†</sup>** (2020). Transmission cycle of SARS-CoV and SARS-CoV-2. *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 33-42.
39. Sharma, R., Agarwal, M., Gupta, M., Somendra, S., & **Saxena S.K.<sup>†</sup>** (2020). Clinical characteristics and differential clinical diagnosis of novel coronavirus disease 2019 (COVID-19). *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 55-70.
40. **Saxena S.K.<sup>†</sup>**, Kumar S, Maurya VK, Sharma R, Dandu HR, Bhatt ML. Current insight into the novel coronavirus disease 2019 (COVID-19). *Coronavirus Disease 2019 (COVID-19)*. 2020:1.
41. Srivastava, N., Baxi, P., Ratho, R. K., & **Saxena S.K.<sup>†</sup>** (2020). Global trends in epidemiology of coronavirus disease 2019 (COVID-19). *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 9-21.
42. Jaiswal N.K., **Saxena S.K.<sup>†</sup>**, (2020) Classical coronaviruses. 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\\_12](https://doi.org/10.1007/978-981-15-4814-7_12)
43. Srivastava, N., & **Saxena S.K.<sup>†</sup>**, (2020). Prevention and control strategies for SARS-CoV-2 infection. *Coronavirus Disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 127-140.
44. Baxi, P., & **Saxena S.K.<sup>†</sup>** (2020). Emergence and re-emergence of severe acute respiratory syndrome (SARS) coronaviruses. *Coronavirus Disease 2019 (COVID-19): Epidemiology, Pathogenesis, Diagnosis, and Therapeutics*, 151-163.
45. Saxena, R., & **Saxena S.K.<sup>†</sup>** (2020). Preparing children for pandemics. *Coronavirus disease 2019 (COVID-19): Epidemiology, pathogenesis, diagnosis, and therapeutics*, 187-198.
46. 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.
47. 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.
48. 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.
49. **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).
50. **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).
51. **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).

52. 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.
53. 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.
54. Saxena S.K.<sup>†</sup>, Maurya VK., Kumar S., Bhatt MLB. (2020). Modern approaches in nanomedicine for neuroAIDS and CNS drug delivery. (doi. 10.1007/978-981-32-9898-9\_8). In **“NanoBioMedicine” (Book)**, S.K. Saxena, SMP. Khurana (Ed.), ISBN: 978-981-32-9897-2. Springer Nature Singapore. 199-211.
55. Saxena S.K.<sup>†</sup>, Nyodu R., Kumar S., Maurya VK. (2020). Nanotoxicology in medicine. (doi. 10.1007/978-981-32-9898-9\_20). In **“NanoBioMedicine” (Book)**, S.K. Saxena, SMP. Khurana (Ed.), ISBN: 978-981-32-9897-2. Springer Nature Singapore. 467-475.
56. Srivastava N., Saxena S.K.<sup>†</sup> (2020). Opportunities in clinical translation and commercialization of nanomedicine. (doi. 10.1007/978-981-32-9898-9\_22). In **“NanoBioMedicine” (Book)**, S.K. Saxena, SMP. Khurana (Ed.), ISBN: 978-981-32-9897-2. Springer Nature Singapore. 501-517.
57. 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.
58. Kumar S., Haikerwal A., Saxena S.K.<sup>†</sup> (2020). Etiological agents of water-associated infectious diseases. (doi. 10.1007/978-981-13-9197-2\_2). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 5-9.
59. Kumar S., Maurya VK., Saxena S.K.<sup>†</sup> (2020). Evolution and interplay of water-associated human pathogens. (doi. 10.1007/978-981-13-9197-2\_3). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 11-18.
60. Kumar S., Haikerwal A., Saxena S.K.<sup>†</sup> (2020). Epidemiology of water-associated infectious diseases. (doi. 10.1007/978-981-13-9197-2\_4). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 19-25.
61. Kumar S., Maurya VK., Saxena S.K.<sup>†</sup> (2020). Emerging and re-emerging water-associated infectious diseases. (doi. 10.1007/978-981-13-9197-2\_5). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 27-51.
62. Haikerwal A., Saxena S.K.<sup>†</sup> (2020). Impact of climate change on water-associated infectious diseases. (doi. 10.1007/978-981-13-9197-2\_6). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 53-62.
63. Haikerwal A., Kumar S., Saxena S.K.<sup>†</sup> (2020). Hazards associated with contaminated water. (doi. 10.1007/978-981-13-9197-2\_7). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 63-66.
64. Haikerwal A., Kumar S., Saxena S.K.<sup>†</sup> (2020). Global strategies and schemes for preventing water-associated infectious diseases. (doi. 10.1007/978-981-13-9197-2\_8). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 67-71.
65. Maurya VK., Kumar S., Saxena S.K.<sup>†</sup> (2020). Novel approaches for detecting water-associated pathogens. In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. (doi. 10.1007/978-981-13-9197-2\_9). 73-95.
66. Haikerwal A., Kumar S., Saxena S.K.<sup>†</sup> (2020). Treatment of water to prevent water-associated infectious diseases (doi. 10.1007/978-981-13-9197-2\_10). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 97-103.
67. Maurya VK., Kumar S., Saxena S.K.<sup>†</sup> (2020). Conventional treatment of water-associated infectious diseases. In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. (doi. 10.1007/978-981-13-9197-2\_11). 105-118.
68. Maurya VK., Kumar S., Haikerwal A., Saxena S.K.<sup>†</sup> (2020). Complementary and alternative medicine treatments of water-associated infectious diseases in alliance with conventional medicine treatments. (doi. 10.1007/978-981-13-9197-2\_12). In **“Water-Associated Infectious Diseases” (Book)**, S.K. Saxena (Ed.), ISBN: 978-981-13-9196-5. Springer Nature Singapore. 119-136.
69. Saxena S.K.<sup>†</sup>, Maurya VK., Kumar S., Bhatt MLB. (2019). Contemporary vaccine approaches and role of next-generation vaccine adjuvants in managing viral diseases(doi.10.1016/B978-0-12-816352-

- 8.00018-7). In **"Genomics and Biotechnological Advances in Veterinary, Poultry, and Fisheries"** (Book), Y.S. Malik *et al.* (Eds.), ISBN: 978-0-12-816352-8. Academic Press, Elsevier, Cambridge, MA 02139, USA. 421-433.
70. 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.
  71. 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.
  72. Saxena S.K.<sup>†</sup>, Haikerwal A., Kumar S., Bhatt MLB. (2018). Human Influenza A virus infection - global prevalence, prevention, therapeutics, and challenges (doi: 10.5772/intechopen.77350). In **"Influenza - Therapeutics and Challenges"**. (Book), S.K. Saxena (Ed.), ISBN: 978-1-78923-714-6. IntechOpen Ltd., London (UK). 3-14.
  73. Saxena S.K.<sup>†</sup>, Kumar S., Haikerwal A., Bhatt MLB. (2018). Neglected tropical waterborne infectious diseases: strategies for mitigation (doi: 10.5772/intechopen.74322). In **"Water Challenges of an Urbanizing World"** (Book), Matjaž Glavan (Ed.), ISBN: 978-953-51-3893-8, InTech, Croatia (Europe) 3-12.
  74. Singh A, Srivastava N, Chitti SVP & Saxena SK. (2017). Recent progress and prospects in beneficial uses of microbes in biotechnology. In: **"Biotechnology: Trends and Applications"** (Book). R. Singh & M. Trivedi (Eds.). ISBN: 1-62699-049-2, Studium Press LLC, Houston, USA.
  75. Saxena S.K.<sup>†</sup>, Chitti S.V. (2016). Serum components as rapid diagnostic biomarkers during flavivirus infection (DOI: 10.5772/64784). In **"Proof and Concepts in Rapid Diagnostic Tests and Technologies"** (Book), S.K. Saxena (Ed.), ISBN 978-953-51-2580-8, InTech, Croatia (Europe), 3-13.
  76. Saxena S.K.<sup>†</sup>, Chitti S.V. (2016). Molecular biology and pathogenesis of retroviruses (DOI: 10.5772/62885). In **"Advances in Molecular Retrovirology"** (Book), S.K. Saxena (Ed.), ISBN 978-953-51-2261-6, InTech, Croatia (Europe), 3-18.
  77. Saxena S.K.<sup>†</sup>, Agrawal P.T., & Nair M.P. (2014) Japanese encephalitis: A neglected viral disease and its impact on global health (DOI: 10.5772/58529). In **"Trends in Infectious Diseases"** (Book), S.K. Saxena (Ed.), ISBN 980-953-307-1124-2, InTech, Croatia (Europe), 3-16.
  78. Saxena S.K.<sup>†</sup>, Tiwari S, & Nair MPN. (2013) NeuroAIDS: mechanisms, causes, prevalence, diagnostics and social issues (DOI: 10.5772/55100). In **"Current Perspectives in HIV Infection"** (Book), S.K. Saxena (Ed.), ISBN 978-953-51-1057-6, InTech, Croatia (Europe), 109-124.
  79. Saxena S.K.<sup>†</sup>, Tiwari S, Saxena R., Mathur A & Nair MPN. (2013). Japanese encephalitis virus: the complex biology of an emerging pathogen (DOI: 10.5772/54111). In **"Encephalitis"** (Book), S. Tkachev (Ed.), ISBN: 978-953-51-0925-9, InTech, Croatia (Europe), 161-180.
  80. Saxena S.K.<sup>†</sup>, Tiwari S, Saxena R, Mathur A & Nair MPN. (2011) Japanese encephalitis: an emerging and spreading arbovirolosis. (DOI: 10.5772/22145). In **"Flavivirus Encephalitis"** (Book), D. Ruzek (Ed.), ISBN 978-953-307-669-0, InTech, Croatia (Europe), 295-316.
  81. Singh A., Saxena S.K., Mishra N., & Mathur A. Neuromicrobiology in India. In: Dhawan BN and Seth PK, ed. **"Neurosciences in India"** (2009). Published by: Indian Academy of Neurosciences (IAN) and Council of Scientific and Industrial Research (CSIR, India), 269-318.
  82. Saxena S.K.<sup>†</sup> & Mathur A. Macrophage-derived factor (MDF) mediated protection against Japanese encephalitis virus. In: Muthuswamy V, Agarwal OP, Kaul R, Singh G, ed. **"Drugs and pharmaceuticals in infectious diseases"** (2006). Published by: Indian Council of Medical Research, 34-40.
  83. Saxena S.K. & Jameel S. Viral interactions during hepatitis B and co-infection. In: Sarin SK, ed. **"Hepatitis B and co-infection."** Ranbaxy Science Foundation, India (*in press*).