

Dr. Ramesh Kumar

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Previous Work Experiences: **Head, Molecular Lab and BSL-3 Lab** (Dec 2020-April 2021), Maharaja Agrasen Hospital (part of Maharaja Agrasen Medical University);
Scientist-D & Group Leader, COVID-19 Diagnostic Laboratory, SSPH&PGTI (Autonomous Institute of UP Govt.), Noida, UP;
Scientist-C (Lab Team Leader) at AIIMS, Delhi (2010-2020), Vaccine, diagnostic and epidemiological research study of Respiratory Viruses for CDC, USA and Univ. of Alabama, USA.

Post PhD Work Experience :10 Years and 6 Months

Patents :One

Publications : 38 (Journals-24, Conference-14), Book-1, Book Chapters-2

Ph.D Guided :4 (Degree awarded-1, Ongoing-3)

Awards/Fellowship

- i) CSIR-JRF 2003, GATE-2002
- ii) International Travel Grant(2008) for 108th General Meeting of ASM, Boston, USA by CSIR, Delhi, India.
- iii) Foreign Travel Grant(2013) for BioMicroWorld-2013 Conference, Madrid, SPAIN by CSIR, Delhi, India.
- iv) Spark the Rise (2013) award (Rs 2 lakh cash) awarded by Mahindra & Mahindra Limited.
- v) Leader in Innovation(2015) by Royal Academy of Engineering, Oxford University, London, UK
- vi) Appreciation award for COVID-19 (2020) work during from SSPH>I, Noida.

Country Visited : USA, UK, Spain, Italy, Sweden, France, Japan, Singapore

Research Area of Interest :i) Antimicrobial Studies
ii) Medical Diagnostics/ Infectious Diseases
iii) Bio-nanotechnology
iv) Drug Delivery System
v) Vaccine Development

PUBLICATIONS (Selected from 2020-21 only):

1. Krishnan A, Dar L, Saha S, Narayan VV, Kumar R, **Kumar R**, Amarchand R, Dhakad S, Chokker R, Choudekar A, Gopal G, Choudhary A, Potdar V, Chadha M, Lafond KE, Lindstrom S, Widdowson MA, Jain S. Efficacy of live attenuated and inactivated influenza vaccines among children in rural India: A 2-year, randomized, triple-blind, placebo-controlled trial. *PLoS Med.* 2021 Apr 29;18(4):e1003609. doi: 10.1371/journal.pmed.1003609. PMID: 33914729. (IF: 10.5)
2. Rakesh Kumar, Lalit Dar, Ritvik Amarchand, Siddhartha Saha, Kathryn Lafond, Debjani Ram Purakayastha, **Ramesh Kumar**, Avinash Choudekar, Giridhar Gopal, Venkatesh Vinayak Narayan, Abhishek Wahi, Reshmi Chhoker, Stephen Lindstrom, Brett Whitaker, A B Dey,

- Anand Krishnan. "Incidence, risk factors and viral etiology of community-acquired acute lower respiratory tract infection among older adults in rural north India". **Journal of Global Health**. April 2021, Vol 11, 04027. [https://doi: 10.7189/jogh.11.04027](https://doi.org/10.7189/jogh.11.04027). (IF: 2.9)
3. **Ramesh Kumar***, Samander Kaushik, Suman. Nano-curcumin: A potential herbal alternative with enhanced anti-*E. gingivalis* efficacy. **Research Journal of Biotechnology**. April 2021, Vol. 16 (5) May (2021), 51-56. <https://worldresearchersassociations.com/biotechcurrissue/7.pdf>. (IF: 0.2)
4. Kumar Varun, **Kumar Ramesh**, Jain Vinod Kumar, Nagpal Suman. "Comparison of Influenza Virosome based novel platform for nanocurcumin delivery with that of Liposome using HepG2 and CaCo2 Cancer Cell Lines". **Journal of Microencapsulation**. Online, March 2021 <https://doi.org/10.1080/02652048.2021.1902009>. (IF: 2.3)
5. Varun Kumar, **Ramesh Kumar**, V. K. Jain and Suman. "Preparation and characterization of nanocurcumin based hybrid virosomes as a drug delivery vehicle with enhanced anticancerous activity and reduced toxicity". **Scientific Reports**. Online, January 2021 <https://rdcu.be/cdnrG>. (IF: 4.0)
6. **Ramesh Kumar**, Sumi Nandwani, Suman, Samander Kaushik. "Green synthesized Allium cepa nanoparticles with enhanced antiprotozoal activities for *E. gingivalis*". **Chemical Biology Letters**. November 2020, 7(4), 247-250. (IF: 1.14)
7. Varsha Gautam, Avshish Kumar, **Ramesh Kumar**, M. Husain, V K Jain, Suman. "SiNWs/rGO nanocomposite based novel sensor platform for detection of cyclohexane and formaldehyde". **Materials Science in Semiconductor Processing**. November 2020; <https://doi.org/10.1016/j.mssp.2020.105571>. (IF: 3.1)
8. Sulochana Kaushik, Samander Kaushik, **Ramesh Kumar**, Lalit Dar, Jaya Parkash Yadav. "In-vitro activity of *Cyamopsis tetragonoloba* (Gaur) L. supercritical extract against dengue-2 virus". **VirusDisease**. August 2020 (Online), <https://doi.org/10.1007/s13337-020-00624-9>. (IF: 0.9)
9. **Ramesh Kumar***, Suman, Samander Kaushik, Sanjay Mendiratta. "COVID-19 Diagnostic Approaches: Different roads to a same destination". **VirusDisease**, June 2020 (Online), <https://link.springer.com/article/10.1007/s13337-020-00599-7>. (IF: 0.9)
10. Samander Kaushik, Sulochana Kaushik, Yashika Sharma, **Ramesh Kumar**, Jaya Parkash Yadav. The Indian Perspective of COVID-19 Outbreak. **VirusDisease**, 4 May 2020 (Online). <https://link.springer.com/article/10.1007/s13337-020-00587-x>. (IF: 0.9)