

Dr. G. Venkat Kumar

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Dr. G. Venkat Kumar embarked on his academic journey with an integrated M.Sc. in Biomedical Science from Bharathidasan University in 2011. His insatiable curiosity led him to earn a Ph.D. in Biotechnology from SRM Institute of Science and Technology in 2017. Driven by his passion for scientific advancement, He authored ten research articles, four review articles, and two book chapter in esteemed international peer-reviewed journals, amassing over 600 citations and achieving an impressive H-index of 13. His influence is profound. Beyond research, He excelled in education, shaping young minds during his five-year tenure as a University-level educator. As an Assistant Professor in the Department of Chemistry at SRMIST, Ramapuram campus, Chennai, India, he continues to inspire through his dedication to scientific inquiry, commitment to education, and significant contributions to Science.

Area of Research:

Biomaterials and Nanomedicine

Selected Publications:

- Manicum AL, Sargazi S, Razzaq S, **Kumar GV**, Rahdar A, Er S, Ain QU, Bilal M, Aboudzadeh MA. Nano-immunotherapeutic strategies for targeted RNA delivery: Emphasizing the role of monocyte/macrophages as nanovehicles to treat glioblastoma multiforme. *Journal of Drug Delivery Science and Technology*. 2022:103288.(**Impact Factor – 5, Elsevier Publisher**)
- V Jeyanthi, **Kumar GV**, Sekaran S and Venkatapathy S (2021) A Minireview of the Promising Drugs and Vaccines in Pipeline for the Treatment of COVID-19 and Current Update on Clinical Trials. *Front. Mol. Biosci.* 8. doi: 10.3389/fmolb.2021.637378. (**Impact Factor – 5, Frontiers Publisher**)
- V Jeyanthi, P Velusamy, **GV Kumar**, K Kiruba. Effect of naturally isolated hydroquinone in disturbing the cell membrane integrity of *Pseudomonas aeruginosa* MTCC 741 and

Staphylococcus aureus MTCC 740, Heliyon 7 (5), e07021. (**Impact Factor – 4, Elsevier Publisher**)

- **Kumar GV**, Jeyanthi V, Ramakrishnan S. A short review on antibody therapy for COVID-19. *New Microbes New Infect.* 2020;100682. doi:10.1016/j.nmni.2020.100682 (**Impact Factor – 4.0, Elsevier Publisher**)

Book Chapter:

- Makwikwi, T., **Kumar, G. V.**, Manicum, A. L. E., Sekaran, S., & Katerere, D. (2022). Carbon-Based Nanomaterials for Targeted Drug and Gene Delivery Systems. In *Pharmaceutical Nanobiotechnology for Targeted Therapy* (pp. 455-488). **Cham: Springer International Publishing.**
- Shabangu, A. L. T., Manicum, E., Makgopa, **G., Venkat, Kumar**, Agwamba, E. C., Shai, L. J., & Ghotekar, S. (2023). Nanotechnology-based therapeutics to combat biofilms and antibacterial resistance in chronic wound infections. *Bioengineered Nanomaterials for Wound Healing and Infection Control*, 175. **Elsevier Publisher.**

Book Published:

- S. Azhagu Mathavan, S. Maneemegalai, J. Sumitha, **G. Venkat Kumar**, P. Arjun. **Vaccine for Covid 19**, India, 2022, Jayalakshmi Publications, ISBN No. 979-93-91987-61-9.

Patents:

- 2L wall mounted steam vaporizer. Application No. 202141033842 A, Indian Patent. Published date 03/02/23.
- Round sweet maker machine with manual operation and portability/31-00. Design Patent application no. 373883-001. Indian patent. Published date 27/01/2023.
- Deep Learning Based Detection of Breast Cancer Diagnosis. Application No. 202241008323 A, Indian Patent. Published date 04/03/22

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Google Scholar Link: <https://scholar.google.co.in/citations?user=kvLpSJQAAAAJ&hl=en>