



SCHOOL OF
BASIC & APPLIED SCIENCES

**School of Basic and Applied
Sciences**

City Innovation campus,
Dayananda Sagar University,
Kudlugar, Bengaluru 560114



DAYANANDA SAGAR UNIVERSITY

School of Basic and Applied Sciences

Number of Publications

Year	No. Of Research Articles	No. Of Book Chapters	Total Publications
2015	6	0	6
2016	8	1	9
2017	21	2	23
2018	25	1	26
2019	25	2	27
2020	19	2	21
2021	29	4	33
2022	32	15	47
2023	24	11	35
2024	21	25	46
2025	20	13	33
Total	230	76	306



**YEAR-WISE LIST OF PUBLICATIONS BY SCHOOL OF BASIC AND
APPLIED SCIENCES, DAYANANDA SAGAR UNIVERSITY**

2015

- 1 Jayanna, S. K., & Gayathri, D. (2015). Degradation of 2, 4 dichlorobiphenyl via meta-cleavage pathway by *Pseudomonas* spp. consortium. *Current Microbiology*, 70(6), 871-876.
- 2 Gayathri, D., & Shobha, K. J. (2015). Biodegradation of 2, 4'-dichlorobiphenyl, a congener of polychlorinated biphenyl, by *Pseudomonas* isolates GSa and GSb. *Indian Journal of Experimental Biology*, 53(8), 536-542.
- 3 Das, J., & Banerjee, P. (2015). Matsyavatar: a modern outlook of a mythological tale.
- 4 Kishore V, Zameer F, Nagendra Prasad MN, More SS, Dhananjaya BL. (2015). INHIBITION OF MULTI-TOXIC PHOSPHOLIPASE A2 OF DABOII RUSSELLII PULCHELLA VENOM BY THE ETHANOLIC EXTRACT OF A. PANICULATA. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(13), 100–103.
- 5 Shrikanth, V. M., Janardhan, B., Dhananjaya, B. L., Muddapura, U. M., & More, S. S. (2015). Antimicrobial and antioxidant activity of methanolic root extract of *Tabernaemontana alternifolia* L. *Int. J. Pharm. Pharm. Sci*, 7, 66-69.
- 6 Janardhan, B., Shrikanth, V. M., Dhananjaya, B. L., & More, S. S. (2015). ANTISNAKE VENOM PROPERTIES OF MEDICINAL PLANTS. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(13), 21–26.



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◆Book chapters, §Reviews, ϕ Conference proceedings □ Books

2016

- 1 Shrikanth, V. M., Janardhan, B., & More, S. S. (2016). In vitro neutralization of *Eachis carinatus* and *Naja naja* venom by *Canthium parviflorum* and its GC-MS analysis. *Bangladesh Journal of Pharmacology*, 11(4), 920-927.
- 2 Bhavya, J., N Francois, N., S More, V., & S More, S. (2016). Scorpion toxin polypeptides as therapeutic agents: An overview. *Protein and peptide letters*, 23(9), 848-859.
- 3 Bhavya, J., Vineetha, M. S., Sundaram, P. M., Veena, S. M., Dhananjaya, B. L., & More, S. S. (2016). Low-molecular weight hyaluronidase from the venom of *Bungarus caeruleus* (Indian common krait) snake: Isolation and partial characterization. *Journal of Liquid Chromatography & Related Technologies*, 39(4), 203-208.
- 4 Dhananjaya, B. L., Sudarshan, S., Dongol, Y., & More, S. S. (2016). The standard aqueous stem bark extract of *Mangifera indica* L. inhibits toxic PLA2–NN-XIb-PLA2 of Indian cobra venom. *Saudi pharmaceutical journal*, 24(3), 371-378.
- 5 Kishore, V., Yarla, N. S., Zameer, F., Prasad, M. N., Santosh, M. S., More, S. S., ... & Dhananjaya, B. L. (2016). Inhibition of group IIA secretory phospholipase A2 and its inflammatory reactions in mice by ethanolic extract of *Andrographis paniculata*, a well-known medicinal food. *Pharmacognosy Research*, 8(3), 213.
- 6 GAUTHAM, S., SUNITA, C., & ONKARAPPA, R. (2016). CHARACTERIZATION AND ANTIMICROBIAL SPECTRUM OF A POTENT *STREPTOMYCES* SP. GOS2 ISOLATED FROM WESTERN GHATS OF KARNATAKA, INDIA.



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- 7 More, S. S., Swamy, R., Mohan, N., Navyashree, M., Janardhan, B., & Niyonzima, F. N. (2018). Purification and characterization of anti-cancer L-glutaminase of *Bacillus cereus* strain LC13. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 88(2), 695-705.
- 8 Gayathri, D., & Shobha, J. K. (2016). Bioremediation of 2, 4 dichlorobiphenyl (Ortho chlorinated) by the consortium of *Pseudomonas* isolates GSa and GSb-A lab scale study. *International Journal of Advanced Life Sciences*.
- 9♦ .J Bhavya, Sunil S More, BL Dhananjaya. THE PHARMACOLOGICAL AND THERAPEUTICAL POTENTIAL OF SCORPION VENOMS AND THEIR TOXINS. *ADVANCES IN MEDICINE AND BIOLOGY* 92 (1), 67 2016

♦Book chapters, §Reviews, ϕ Conference proceedings □ Books

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- 1 Reddy, S. V., More, S. S., & Annappa, G. S. (2017). Purification and properties of beta-cyclomalto-dextrin glucanotransferase from *Bacillus flexus* SV 1. *Journal of Basic Microbiology*, 57(11), 974-981.
- 2 Lincoln, L., & More, S. S. (2017). Bacterial invertases: occurrence, production, biochemical characterization, and significance of transfructosylation. *Journal of basic microbiology*, 57(10), 803-813.
- 3 Jose, G., Kumara, T. H. S., Sowmya, H. B., Sriram, D., Row, T. N. G., Hosamani, A. A., ... & Ravikumar, Y. S. (2017). Synthesis, molecular docking, antimycobacterial and antimicrobial evaluation of new pyrrolo [3, 2-c] pyridine Mannich bases. *European Journal of Medicinal Chemistry*, 131, 275-288.



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- 4 Manjunatha, K. S., Manu, C. P., Satyanarayan, N. K., Vinay, M. S., Vineetha, M. S., & Sunil More, S. (2017). Acetylcholinesterase inhibitory effect of 3-(1-hindol-3-yl)-1, 3-diphenylpropan-1-one derivatives. *Asian J Pharm Clin Res*, 10, 83-6.
 - 5 Maiti, A. K., Saha, N. C., More, S. S., Panigrahi, A. K., & Paul, G. (2017). Neuroprotective efficacy of mitochondrial antioxidant MitoQ in suppressing peroxynitrite-mediated mitochondrial dysfunction inflicted by lead toxicity in the rat brain. *Neurotoxicity research*, 31(3), 358-372.
 - 6 Lincoln, L., & More, S. S. (2017). Agro-Wastes as Substrates for Extracellular Beta-D-Fructofuranosidase production from Soil *Aspergillus* Sp. *RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES*, 8(2), 2050-2057.
 - 7 Lincoln, L., & More, S. S. (2017). Screening and Enhanced Production of neutral invertase from *Aspergillus* sp. by utilization of Molasses-A by-product of Sugarcane industry. *Advances in Bioresearch*, 8(4).
 - 8 Vineetha, M. S., Janardhan, B., & More, S. S. (2017). Biochemical and pharmacological neutralization of Indian saw-scaled viper venom by *Canthium parviflorum* extracts. *Indian J Biochem Biophys*, 54, 173-185.
 - 9 Shwetha, V., More, S. S., & Uday, M. (2017). Screening, optimization and production of a novel-cyclodextrinase by *Bacillus flexus* MSBC 2. *Current Trends in Biotechnology and Pharmacy*, 11(2), 136-143.
 - 10 Das, J., Dey, P., & Banerjee, P. (2017). Redesigning nature: to be or not to be?. *Current Science*, 1346-1350.
 - 11 Choudhari, S., Habimana, O., Hannon, J., Allen, A., Cummins, E., & Casey, E. (2017). Dynamics of silver elution from functionalised antimicrobial nanofiltration membranes. *Biofouling*, 33(6), 520-529.
 - 12 Cascon, H. R., & Choudhari, S. K. (2017). Pervaporative transport mechanisms in phosphonium ionic liquid-based supported liquid membrane and its stability with actual fermentation broth feed. *Separation Science and Technology*, 52(12), 2029-2039.



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- 13 Dhara, K., Saha, N. C., & Maiti, A. K. (2017). Studies on acute and chronic toxicity of cadmium to freshwater snail *Lymnaea acuminata* (Lamarck) with special reference to behavioral and hematological changes. *Environmental Science and Pollution Research*, 24(35), 27326-27333.
- 14 Mahesh, N. M., & Sharma, A. Identification and Characterization of Bacteria Isolated From the Gut of Metal Treated Earthworms.
- 15 Mukherjee, N., Vayeda, D. R., Spoorthi, B. C., & Maiti, A. K. (2017). Neurotherapeutic efficacy of nutraceuticals in combating Parkinson's disease: A promising alternative. *Journal of Pharmacy Research*, 11(9), 1.
- 16 Shobha K. Jayanna , Kushalatha M. , Murulidhar Nayak M. and Goutham S. A. (2017). Biodegradation of PCB congener (2,4, Dichlorophenyl) by *Micrococcus* sp. Isolated from transform oil contaminated soil. *European Journal of Biomedical and Pharmaceutical Sciences*. 4 (11), 640-647.
- 17 Ramesh, G., Joshi, P. S., Packiyam, J. M., & Jayanna, S. K. (2017). Biosynthesis and characterization of Silver Nanoparticles from Grape (*Vitis vinifera*) seeds and study on antibacterial activity. *Int. J. Curr. Res. Chem. Pharm. Sci*, 4(10), 5-11.
- 18 Janardhan, B., Shrikanth, V. M., Dhananjaya, B. L., Gautham, S. A., More, S. S., & Uday, M. (2017). In vitro and in vivo screening of antivenom activities of *Vipera russelli* venom by *Azima tetracantha* ethyl acetate extract. *J Pharma Res*, 11(9), 1095-1104.

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- 1 Spoorthi, B. C., Gautham, S. A., More, S. S., & Maiti, A. K. (2018). Nutraceuticals: Potential therapeutic agents for the treatment and prevention of cardiovascular diseases. *Journal of Pharmacy Research*, 12(2), 231.
 - 2 Banerjee, P., Das, J., & Tripathi, S. (2018). Biomimetic synthesis of nanocrystalline hydroxyapatite from sharkskin collagen. *Bioinspired, Biomimetic and Nanobiomaterials*, 7(1), 27-36.
 - 3 Das, J., Dey, P., Chakraborty, T., Saleem, K., Nagendra, R., & Banerjee, P. (2018). Utilization of marine industry waste derived collagen hydrolysate as peroxide inhibition agents in lipid-based food. *Journal of Food Processing and Preservation*, 42(2), e13430.
 - 4 Lincoln, L., More, S. S., & Reddy, S. V. (2018). Purification and biochemical characterization of β -d-fructofuranosidase from *Bacillus subtilis* LYN12. *Journal of Food Biochemistry*, 42(5), e12592.
 - 5 Lincoln, L., & More, S. S. (2018). Comparative evaluation of extracellular β -d-fructofuranosidase in submerged and solid-state fermentation produced by newly identified *Bacillus subtilis* strain. *Journal of applied microbiology*, 125(2), 441-456.
 - 6 Vasudev, S., More, S. S., Annappa, G. S., & More, V. S. (2018). Anti-snake venom potential of *Clerodendrum serratum* extracts on *Bungarus caeruleus* and *Daboia russelii* venom. *Bangladesh Journal of Pharmacology*, 13(2), 187-191.
 - 7 Muddapur, U. M., Shiledar, A. A., Bhope, A., Joshi, R. K., & More, S. S. (2018). Production of Biofuel From Paper Sludge By Simultaneous Saccharification And Fermentation. *RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES*, 9(2), 285-289.
 - 8 Vineetha K.N.Vinay, V. Venkata Lakshmi, N. D. Satyanarayan, Sunil More. (2018). In-vitro Screening of Acetylcholinesterase activity and Antioxidant activity of different crude extracts from *Alpinia purpurata*: A new source for management of Alzheimer's disease. *International Journal of Green and Herbal Chemistry* 7 (01), 57-66.
 - 9 Lincoln, L., & More, S. S. (2018). Purification and biochemical characterization of an extracellular β -d-fructofuranosidase from *Aspergillus* sp. 3 *Biotech*, 8(2), 86.



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- 10 Pachauri, P., More, S., Aranganathan, V., Sullia, S. B., & Deshmukh, S. (2018). Kinetic study and characterization of cellulase enzyme from isolated *Aspergillus niger* subsp. *awamori* for cellulosic biofuels. *Journal of scientific and industrial research*, 77, 55-60.
 - 11 James, P., Sajjadi, S., Tomar, A. S., Saffari, A., Fall, C. H., Prentice, A. M., ... & Chandak, G. R. (2018). Candidate genes linking maternal nutrient exposure to offspring health via DNA methylation: a review of existing evidence in humans with specific focus on one-carbon metabolism. *International journal of epidemiology*, 47(6), 1910-1937.
 - 12 Yadav, D. K., Shrestha, S., Dadhwal, G., & Chandak, G. R. (2018). Identification and characterization of cis-regulatory elements 'insulator and repressor' in PPARD gene. *Epigenomics*, 10(5), 613-627.
 - 13 Yadav, D. K., Shrestha, S., Lillycrop, K. A., Joglekar, C. V., Pan, H., Holbrook, J. D., ... & Chandak, G. R. (2018). Vitamin B12 supplementation influences methylation of genes associated with Type 2 diabetes and its intermediate traits. *Epigenomics*, 10(1), 71-90.
 - 14 Kempegowda, P. K., Zameer, F., & Murari, S. K. (2018). Delineating antidiabetic proficiency of catechin from *Withania somnifera* and its Inhibitory action on dipeptidyl peptidase-4 (DPP-4). *Biomed. Res*, 29(16), 3192-3200.
 - 15 Tewari, R., Das Mitra, S., Das, S., Jadhao, S., Mishra, G., Ganaie, F., ... & Shome, B. R. (2018). Draft Genome Sequence of Multidrug-Resistant *Escherichia coli* NIVEDI-P44, Isolated from a Chicken Fecal Sample in Northeast India. *Genome Announcements*, 6(17), 10-1128.
 - 16 Maiti, A. K., Spoorthi, B. C., Saha, N. C., & Panigrahi, A. K. (2018). Mitigating peroxynitrite mediated mitochondrial dysfunction in aged rat brain by mitochondria-targeted antioxidant MitoQ. *Biogerontology*, 19(3), 271-286.
 - 17 Kempahanumakkagari, S. K., Adarakatti, P. S., & Malingappa, P. (2018). Covalent modification of graphitic carbon through in-situ diazonium ion formation and its reduction: A robust pellet electrode as a novel electrochemical interface for divalent lead quantification. *Journal of Environmental Chemical Engineering*, 6(2), 2674-2683.



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- 18 Kempahanumakkagari, S., Vellingiri, K., Deep, A., Kwon, E. E., Bolan, N., & Kim, K. H. (2018). Metal–organic framework composites as electrocatalysts for electrochemical sensing applications. *Coordination Chemistry Reviews*, 357, 105-129.
- 19 Kempahanumakkagari, S., Kumar, V., Samaddar, P., Kumar, P., Ramakrishnappa, T., & Kim, K. H. (2018). Biomolecule-embedded metal-organic frameworks as an innovative sensing platform. *Biotechnology advances*, 36(2), 467-481.
- 20 Venkatesh, S. K., Sudheer, K. M. V., & Mohana Krishna, T. (2018). Lipid profile analysis of type 2 diabetic patients in Bengaluru population, India. *International Journal of Research in Medical Sciences*, 6(6), 20492053.
- 21 Tewari, R., Mitra, S. D., Ganaie, F., Venugopal, N., Das, S., Shome, R., ... & Shome, B. R. (2018). Prevalence of extended spectrum β -lactamase, AmpC β -lactamase and metallo β -lactamase mediated resistance in *Escherichia coli* from diagnostic and tertiary healthcare centers in south Bangalore, India. *Int J Res Med Sci*, 6(4), 1308-1313.
- 22 Nagendra, R., Sumeet, C., Mathur, M., Kiran, K., Banerjee, P. (2018). Use of Threadfin Bream derived collagen hydrolysate as shelf life enhancers. *International Journal of Engineering & Scientific Research*, 8 (1), 121-132.
- 23 Bajaj, M., Chakravarty, S., Hemanth, V., Nair, M., & Banerjee, P. (2018). Biofunctional food additives–emulsifiers and humectants isolated from Catla skin and bladder collagen. *International Journal of Engineering & Scientific Research*, 8(1), 167-180.
- 24 Shome, B. R., Natesan, K., Mitra, S. D., Venugopal, N., Mani, B., Ganaie, F., ... & Rahman, H. (2018). Development of simplex-PCR assays for accurate identification of nine staphylococcal species at genus and species levels. *Journal of Microbiology and Infectious Diseases*, 8(03), 120-127.
- 25 Kempegowda, P. K., Zameer, F., Narasimashetty, C. K., Kollur, S. P., & Murari, S. K. (2018). Inhibitory potency of *Withania somnifera* extracts against DPP-4: an in vitro evaluation. *African Journal of Traditional, Complementary and Alternative Medicines*, 15(1), 11-25.
- 26 More, S. S., Swamy, R., Mohan, N., Navyashree, M., Janardhan, B., & Niyonzima, F. N. (2018). Purification and characterization of anti-cancer L-glutaminase of *Bacillus cereus*



strain LC13. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, 88(2), 695-705.

27 Maiti, A. K., Saha, N. C., Goutam, P., & Dhara, K. (2018). Mitochondrial respiratory chain inhibition and Na⁺ K⁺ ATPase dysfunction are determinant factors modulating the toxicity of nickel in the brain of indian catfish *Clarias batrachus* L. Interdisciplinary Toxicology, 11(4), 306-315.

28♦ Sharma, A. (2018). Assortment. In Encyclopedia of Animal Cognition and Behavior (pp. 1-3). Springer, Cham.

29♦ Adarakatti, P. S., & Kempahanumakkagari, S. K. (2018). Modified electrodes for sensing.

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2019

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3 Nambiar, S. S., and More, S. S., Hari Priyaa G.(2019). NUTRACEUTICALS: A BETTER ALTERNATIVE TO STATINS IN THE FIGHT AGAINST



ATHEROSCLEROSIS? - A REVIEW. International journal of Advanced Research 7 (12), 858-862.

4 Shwetha, V., Veena, S. M., Govindappa, M., Zameer, F., Francois, N. N., & More, S. S. (2019). In vitro neutralization of Naja naja venom enzymes by folk medicinal plant extracts. Journal of Biologically Active Products from Nature, 9(4), 278-288.

5 Janardhan, B., Shrikanth, V. M., More, V. S., Melappa, G., Zameer, F., & More, S. S. (2019). Bungarus caeruleus venom neutralization activity of Azima tetraantha Lam. Extract. Heliyon, 5(7).

6 Satapathy, P., Khan, K., Devi, A. T., Patil, A. G., Govindaraju, A. M., Gopal, S., ... & Zameer, F. (2019). Synthetic gutomics: Deciphering the microbial code for futuristic diagnosis and personalized medicine. In Methods in Microbiology (Vol. 46, pp. 197-225). Academic Press.

7 MS, V., Janardhan, B., & More, S. S. (2019). Inhibition of pharmacological and toxic effects of Echis carinatus venom by Tabernaemontana alternifolia root extract. Indian Journal of Natural Products and Resources (IJNPR)[Formerly Natural Product Radiance (NPR)], 10(1), 48-58.

8 Lincoln, L., More, V. S., & More, S. S. (2019). Isolation, screening and optimization of extracellular glucoamylase from Paenibacillus amylolyticus strain NEO03. Biocatalysis and agricultural biotechnology, 18, 101054.

9 Clark, D. W., Okada, Y., Moore, K. H., Mason, D., Pirastu, N., Gandin, I., ... & Jagadeesan, A. (2019). Associations of autozygosity with a broad range of human phenotypes. Nature communications, 10(1), 4957.

10 Prasad, A., Devi, A. T., Prasad, M. N., Zameer, F., Shruthi, G., & Shivamallu, C. (2019). Phyto anti-biofilm elicitors as potential inhibitors of Helicobacter pylori. 3 Biotech, 9(2), 53.

11 Kunnel, S. G., Subramanya, S., Satapathy, P., Sahoo, I., & Zameer, F. (2019). Acrylamide induced toxicity and the propensity of phytochemicals in amelioration: a review. Central Nervous System Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Central Nervous System Agents), 19(2), 100-113.



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- 12 Pais, R., Omosun, Y., Igietsame, J. U., Fujihashi, K., & Eko, F. O. (2019). Route of vaccine administration influences the impact of Fms-like tyrosine kinase 3 ligand (Flt3L) on chlamydial-specific protective immune responses. *Frontiers in immunology*, 10, 1577.
 - 13 Mayegowda, S. B., & Thomas, C. (2019). Glial pathology in neuropsychiatric disorders: a brief review. *Journal of basic and clinical physiology and pharmacology*, 30(4), 20180120.
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 - 19 Sreeramareddygar, M., Kempahanumakkagari, S., Mahesh, P., Thippeswamy, R., Devaramani, S., Mardi, R. R., ... & Govindappa, B. (2019). A novel mixed matrix membrane of phenolphthalein hydrazide and polysulfone for the detection of copper ions in environmental water samples. *Environmental Progress & Sustainable Energy*, 38(5), 13167.



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- 20 Prasad, A., Baker, S., Nagendra Prasad, M. N., Devi, A. T., Satish, S., Zameer, F., & Shivamallu, C. (2019). Phytogenic synthesis of silver nanobactericides for anti-biofilm activity against human pathogen *H. pylori*. *SN Applied Sciences*, 1(4), 341.
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- 22 Lincoln, L., More, V. S., & More, S. S. (2019). Purification and biochemical characterization of extracellular glucoamylase from *Paenibacillus amylolyticus* strain. *Journal of Basic Microbiology*, 59(4), 375-384.
- 23 Shrikanth, V. M., Janardhan, B., & More, S. S. (2019). Anti-venom potential of *Canthium parviflorum* against *Naja naja* venom by in vitro and in vivo studies. *Proceedings of the national academy of sciences, India section B: biological sciences*, 89(2), 483-492.
- 24♦ Pankaj Satapathy, Aishwarya S., Mahitha M., Salman K., Nandini S., Anirudh G. Patil, Kounaina K., Huded S.P., Sunil S. More and Farhan Zameer (2019). Biological Applications and Mechanism of Action of Functional Pyrazole. In *Recent Advancement in Functional Pyrazole Chemistry*
- 25♦ Anirudh Gururaj Patil, Pankaj Satapathy, Aishwarya S, Salman K, Nandini S, Mahitha M, Chandini RC,Sunil S. More, Amar Shankar, Zameer F. (2019). Food Safety Policies and Legislations: How well are the ACTs acting? In *Agri-Entrepreneurship Development*



2020

- 1 Avinash, M. G., Zameer, F., Melappa, G., More, S. S., Muthuchelian, K., Hudeda, S. P., ... & Aishwarya, S. (2020). Phyto-nano-antimicrobials: synthesis, characterization, discovery, and advances. In *Frontiers in Anti-Infective Drug Discovery: Volume 8* (pp. 196-231). Bentham Science Publishers.
- 2 Bagewadi, Z. K., Dsouza, V., Mulla, S. I., Deshpande, S. H., Muddapur, U. M., Yaraguppi, D. A., ... & More, S. S. (2020). Structural and functional characterization of bacterial cellulose from *Enterobacter hormaechei* subsp. *steigerwaltii* strain ZKE7. *Cellulose*, 27(16), 9181-9199.
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- 4 Spoorthi, B. C., More, S. S., Gautham, S. A., Ghosh, S., Saha, I., & Maiti, A. K. (2020). Role of free radical scavenging activity of vasoactive intestinal peptide in the attenuation of mitochondrial dysfunction to ameliorate dextran sulphate sodium-induced colitis in mice: Implications in ulcerative colitis. *Journal of Digestive Diseases*, 21(12), 711-723.
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2025

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