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Area of Specialization

Nanotechnology, Cancer Therapy, Targeted drug delivery, Environmental Pollution.

Last 5yrs publications

1. **Sharmila J, Saravanan P, Sivasankar S, Chamundeeswari M***, A novel and an eco-friendly approach for organic dyes degradation using *Spirulina platensis* cultivated water, *Catalysis Today*, Catalysis Today 340, 245-252 **IF-5.825**
2. Verma M.L., Kumar S., Das A., Randhawa J.S., **Chamundeeswari M.**, "Chitin and Chitosan Based Support Materials for Enzyme Immobilization and Biotechnological application", *Environmental Chemistry Letters*, 2020, 18(2), pp. 315-323 **IF - 4.617**
3. Criselda Percival, **M Chamundeeswari**, Rachel Lovlyna F, Seethalakshmi R and G Sreekumar*, " Production and partial purification of β -galactosidase enzyme from probiotic *Bacillus subtilis* SK09", *Indian Journal of Biotechnology*, Vol. 18, April 2019, pp 1-5. **IF - 0.343**
4. **Bernath Anusiya, J. and Chamundeeswari, M***, Fabrication of Graphene oxide using Phycocyanin -A novel approach for antibacterial and anticancer activities, *International Journal of Current Research in Life Sciences*, Vol. 07 (06), pp.2168-2172, June, 2018. **IF - 5.379**
5. **Munusamy Chamundeeswari, John Jeslin & Madan Lal Verma**, "Nanocarriers for drug delivery applications" *Environmental Chemistry Letters*, 2019 17:849–865. **IF - 4.617**
6. Muthukumar Thangavelu, Aravinthan Adithan, Sastry Thotapalli Parvathaleswara & **Chamundeeswari Munusamy***, "Morphological Modification of Carbon Nanoparticles after Interacting with Methotrexate as a Potential Anticancer Agent" *Pharmaceutical Research* 35(184), 1-10, July 2018. **IF - 3.34**
7. T.Muthukumar, G.Sreekumar, T.P.Sastry and **M.Chamundeeswari***, "Collagen as a potential biomaterial in biomedical applications" *Reviews on Advanced materials Science*, vol.53, pp.29-39. 2018. **IF - 2.172**

8. G. Baskar, B.G. Garrick, K. Lalitha, **M. Chamundeeswari**, "Gold nanoparticle mediated delivery of fungal asparaginase against cancer cells", *Journal of Drug Delivery Science and Technology*, 44, pp. 498–504, 2018. **IF - 1.194**

9. Akash Balakrishnan, J Rukkesh, K Bhavya, R.Mary Nancy Flora, **Dr. M Chamundeeshwari**, Dr. Palani S," Bucky Balls: An Introduction, Discovery and Overview of Their Properties and Applications, *International Journal of Engineering Research and Reviews*, Vol. 5, Issue 3, pp: (37-45), Month: July - September 2017.

10. M. Nanthini, **M. Chamundeeswari**, Seethalakshmi R, Rachel Lovlyna F And G. Sreekumar, "Cytotoxic Activity Of Probiotic *Bacillus Subtilis* Sk09 Against Human Colon Cancer Cell Line (Ht-29), *International Research Journal Of Pharmacy*, 2017, 8 (4) pp.105-109. **IF - 0.751**

11. G Baskar, K Lalitha, BG Garrick & **M Chamundeeswari**, "Conjugation, labeling and characterization of asparaginase bound silver nanoparticles for anticancer applications", *Indian Journal of Experimental Biology*, Vol. 55, July 2017, pp. 421-426. **IF -1.475**

12. G. Baskar, Garrick Bikku George, **M. Chamundeeswari**, "Synthesis and Characterization of Asparaginase Bound Silver Nanocomposite Against Ovarian Cancer Cell Line A2780 and Lung Cancer Cell Line A549", *J Inorg Organomet Polym*, Vol 26(5),921-1106, 2016. **IF - 1.754**

13. G.Baskar, J.Chandhuru, K.Sheraz Fahad, A.S.Praveen, **M.Chamundeeswari** and T.Muthukumar, "Anticancer activity of fungal L-asparaginase conjugated with zinc oxide nanoparticles" *Journal of Materials Science-Materials in Medicine*, Vol.26(1), 2015, pp.1-7. **IF – 2.448**

14. T. Muthukumar, **M. Chamundeeswari**, S. Prabhavathi, G. Baskar, J. Chandhuru and T.P. Sastry, "Carbon nanoparticle from a natural source fabricated for folate receptor targeting, imaging and drug delivery application in A549 lung cancer cells" *European Journal of Pharmaceutics and Biopharmaceutics*, Vol. 88(3), 2014, pp.730–736. **IF – 4.491**

15. Thangavelu Muthukumar, Sundaram Prabhavathi, **Munusamy Chamundeeswari**, Thotapalli Parvathaleswara Sastry, "Bio-modified carbon nanoparticles loaded with methotrexate Possible carrier for anticancer drug delivery" *Materials Science and Engineering: C*, Vol. 36, 2014, pp. 14–19. **IF - 5.08**

16. **M. Chamundeeswari**, B. Santhosh Kumar, T. Muthu Kumar, L. Muthuraman, K. Purna Sai, T.P. Sastry, "Iron nanoparticles from blood coated with collagen as a matrix for the synthesis of nanohydroxyapatite" *Bulletin of Materials Science*, Vol. 36, No. 7, 2013,1165–1170. **IF - 0.889 (0.925)**

17. Pranav Vasanthi Bathrinarayanan, Dilliganesh Thangavelu, Vasanth Kumar Muthukumarasamy, **Chamundeeswari Munusamy**, Baskar Gurunathan, "Biological synthesis and characterization of intracellular gold nanoparticles using biomass of

Aspergillus fumigates” *Bulletin of Materials Science*, Vol. 36, No. 7, 2013, pp. 1201–1205. **IF - 0.889 (0.925)**

18. R. Deepachitra, **M. Chamundeeswari**, B. Santhosh kumar, G. Krithiga, P. Prabu, M. Pandima Devi, Thotapalli P. Sastry, “Studies on the Osteo mineralization of Fibrin decorated Graphene Oxide” *Carbon*, Vol. 56, 2013, pp. 64 - 76 **IF – 6.337 (7.082)**
19. **Chamundeeswari M.**, Sastry T.P.; Lakshmi B.S.; Senthil V.; Enzo Agostinelli, “Iron nanoparticles from animal blood for cellular imaging and targeted delivery for cancer treatment” in *Biochimica et Biophysica Acta -General subjects*, Vol.1830, 2013, pp.3005–3010. **IF – 4.702 (3.679)**