

Research Publications (International/National Journals):
h-index: 9

1. Srivastava R and Ayyagari A. Moving towards and environmentally sustainable food sector through mitigation of food losses and wastage - A possibilarians's approach. *Invertis Journal of Renewable Energy*, 2021; 11(1): 42-50.
2. Dwivedi V, Ayyagari A, Chandran R, Diwan P, Gupta S, Gupta V. Repurposing Potential of Diminazene Aceturate as an Inhibitor of the *E. coli* DNA Gyrase B. *Journal of Biomedical Research and Environmental Sciences*. 2020 Oct 31; 1(6): 263-270. doi: 10.37871/jbres1153, Article ID: JBRES1153 (Impact factor: 0313).
3. Chandran R, Ayyagari A, Diwan P, Gupta S, Gupta V. In silico Screening of Approved Drugs to describe Novel *E. coli* DNA Gyrase A Antagonists. *J Biomed Res Environ Sci*. 2020 Oct 26; 6(10): 233-240. doi: 10.37871/jbres1148 , Article ID: JBRES1148 (Impact factor: 0.313)
4. Safikur Rahman, Archana Ayyagari, Durgashree Dutta, Vijay Kumar, Jihoe Kim, Arif Tasleem Jan, Rinki Minakshi (2019). "The onus of cannabinoids in interrupting the molecular odyssey of breast cancer: A critical perspective on UPR^{ER} and beyond". *Saudi Pharmaceutical Journal*. 27(3):437-445 (Impact factor 2.879).
5. Safikur Rahman, Archana Ayyagari, Arif Tasleem Jan, Durgashree Dutta, Rinki Minakshi (2019). "Molecular insight into the relationship between autoimmune thyroid diseases and breast cancer". *Frontiers in Immunology*.10:344 (Impact factor 6.43). doi: 10.3389/fimmu.2019.00344
6. Rinki Minakshi, Safikur Rahman, Arif Tasleem Jan, Ayyagari Archana, and Jihoe Kim (2017). Implications of Ageing and Endoplasmic Reticulum Unfolded Protein Response (UPR) in the Molecular Modality of Breast Cancer. *Nature Experimental & Molecular Medicine*. EMM2017173RR. doi: 10.1038/emm.2017.215 (Impact Factor 8.718)
7. Safikur Rahman, Archana Ayyagari, Mudseer Azam & Rinki Minakshi (2018). "Role of osmolytes and their transporter systems in pathogen survival and pathogenicity". *Current Drug Metabolism*. 19(12):992-1001. BSP-CDM-2017-HT8-40. (Impact factor 3.731).

8. Safikur Rahman, Archana Ayyagari, Arif Tasleem Jan and Rinki Minakshi (2018). "Dissecting Unfolded Protein Response in managing clandestine modus operandi of Alzheimer's disease". *Frontiers in Aging Neuroscience*. 10:30. doi: 10.3389/fnagi.2018.00030 (Impact factor 5.750).
9. Safikur Rahman, Arif Tasleem Jan, Ayyagari Archana, Jiwoo Kim, Jihoe Kim and Rinki Minakshi (2017). Entanglement of UPR^{ER} in Aging driven Neurodegenerative diseases. 9:341. *Frontiers in Aging Neuroscience*. Manuscript ID: 277398 doi: 10.3389/fnagi.2017.00341 (Impact Factor 5.750).
10. Archana A., Kaur, P., Kanodia, S., Gupta, S., Priyanka, Khuntia, P., Anant, K. A., Saha, M. K., Jaiswal, S., Sharma, A., Tiwari, A., Mehra, A., Panchal, A. and Kumar, S. (2015). Evaluating Microbial & Chemical Quality of Delhi-NCR Drinking Water, enhancing its Standard and Spreading mass awareness. *Journal of Undergraduate Research and Innovation*. Volume 1: Paper number 2. (ISSN: 2395-2334).
11. Satyanarayana T. and Archana A. (2003). Purification and characterization of cellulase-free xylanase of a moderate thermophile *Bacillus licheniformis* A99. *World Journal of Microbiology and Biotechnology* 19: 53-57. (ISSN: 0959-3993, Impact Factor: 3.312).
12. Archana A. and Satyanarayana T. (1998). Cellulase-free Xylanase Production by thermophilic *Bacillus licheniformis* A99. *Indian Journal of Microbiology*, 38:135-139. (ISSN: 0046-8991, Citation: 28, Impact Factor: 2.461).
13. Archana A. and Satyanarayana T. (1997). Xylanase Production by thermophilic *Bacillus licheniformis* A99 in solid state fermentation. *Enzyme and Microbial Technology*, 21:12-17. (ISSN: 0141-0229, Citations: 279 Impact Factor 3.493).
14. Banerjee S., Archana A. and Satyanarayana T. (1995). Xylanolytic Activity and Xylose Utilization by Thermophilic Molds. *Folia Microbiologica*, 40 (3):279-282. (ISSN: 0015-5632, Impact Factor 2.099).
15. Banerjee S., Archana A. and Satyanarayana T. (1994). Xylose metabolism in a thermophilic mould *Malbranchea pulchella* var. *sulfurea* TMD-8. *Current Microbiology*, 29: 349-352. (ISSN: 0343-8651, Impact Factor 2.188).

(A) PUBLISHED BOOKS :

Nigam, A. and Ayyagari, A. (2007). Lab Manual in Biochemistry, Immunology and Biotechnology. TATA-McGraw Hill Publishing Company Limited. (ISBN 13:978-0-07-061767-4). Citations: 23.

(C) ARTICLES IN EDITED BOOKS / CONFERENCE PROCEEDINGS / BOOK CHAPTER:

1. A. Archana, Lakshna Mahajan, Safikur Rahman, R. Minakshi (2019). Invited Chapter “Post Translational Modifications In Human Therapeutics Produced In Plant-Expression Systems” for book “Dar - Protein Modificomics” Elsevier Publications, pp. 145-169 (ISBN: 978-0128119136).
2. Lakshna Mahajan, Santosh K. Upadhyay, A. Archana, Poonam Gautam (2015). Chapter on “Gut microbiota and human health” (Chapter.ID_36581). In book “Industrial Microbiology: Microbes in Action” (Book ID: 5599) Nova Publishers, USA. In Press.
3. Vikash Kumar, Digvijay Verma, A. Archana, Tulasi Satyanarayana (2013). Chapter on “Thermostable Bacterial Xylanases”. In book titled, “Thermophilic Microbes in Environmental and Industrial Biotechnology”, Springer Publications, pp. 813-857. (ISBN: 978-94-007-5899-5). Citations: 11
4. A. Archana, A. Sharma, T. Satyanarayana (1999). Chapter on “Xylanolytic Enzymes”. In book titled, “Thermophilic Moulds in Biotechnology”. Springer Publications. Editors: Johri, B.N., Satyanarayana, Tulasi, Olsen, J., pp. 169-190. (ISBN 978-94-007-5899-5). Citations: 5
5. A. Archana, T. Satyanarayana (1999). Chapter on “Potential Biotechnological Applications of Thermophilic Moulds”. In book entitled, “From Ethnomycology to Fungal Biotechnology: Exploiting Fungi from Natural Resources for Novel Products”. Springer Publications, pp. 57-74. (ISBN 978-1-4613-7182-3). Citations: 5
6. Sharma A., Archana A. and Satyanarayana T. (1997). Reduction in organochlorine pollutants in paper pulp industry using microbial xylanases. In: Proceedings of National Symposium.

7. A. Archana. and T. Satyanarayana (1993). Parametric optimization of xylanase production from *Bacillus licheniformis* A99. In : Proceedings of Thermophiles-93, December 16-18, New Zealand, pp. B40-41.