

**JATA SHANKAR Ph.D., Professor**

**Education:** M. Sc Biotechnology (Through JNU Test, Delhi), Calicut University, Calicut, Kerala, 2001  
Ph. D., Institute of Genomics and Integrative Biology-IGIB, (CSIR) and Jamia Millia Islamia-Central University (NIRF-3), New Delhi 2006

**Post-doc-fellow; School Medicine Stanford University USA**

<http://scholar.google.co.in/citations?user=PQvRT9IAAAAJ&hl=en>

<http://www.juit.ac.in/faculty.php?id=311&dep=bio&page=0>

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**Profile URL: <https://vidwan.inflibnet.ac.in/profile/175647>**



**Coordinator: M. Tech Biotechnology Program, Mentoring**

**Biotechnology & Bioinformatics , JUIT**

**Chairperson: Disciplinary committee, JUIT**

**Professional Experience**

Professor	Department of Biotechnology & Bioinformatics, Jaypee University of Information Technology, Wanknaghat Solon (H.P.) India	Jan 1 223-
Associate Professor	Department of Biotechnology & Bioinformatics, Jaypee University of Information Technology, Wanknaghat Solon (H.P.) India	Sep 2017- 31 Dec 2022
Assistant Professor (Senior Grade)	Department of Biotechnology & Bioinformatics, Jaypee University of Information Technology, Wanknaghat Solon (H.P.) India	July 2013      Sep 2017
Assistant Professor	Department of Biotechnology GGV-Central University, Bilaspur (C.G.) India	Feb 2012      June 2013
Post-doctoral Research Fellow	School of Medicine Stanford University California, USA	April 2007- April 2012

**Teaching:** Cell and Molecular Biology, Comparative and Functional Genomics, High Throughput Technologies, Functional Genomics. Genomics & Proteomics

**Research Interests:** Functional Genomics, and Proteomics

**PATENT**

1. "Biodegradable Fungal Based Bio-composite Sheet (FBBS) for Sustainable Materials Manufacturing" Manisha Sharma, Jata Shankar, Kannu Priya, Ashok K Nadda Application no. 202411039825 published on 7 June 2024

2. Tanish Mahajan, Hridhima Sen, Vaibhav Sharma, Diksha Hooda, Jata Shankar "AI AND ML-BASED DRIVER BEHAVIOR MONITORING SYSTEM FOR ENHANCED ACCIDENT PREVENTION " Application no. 202411053689 filed on 15 July 2024 published on 26 July 2024

**Book**

1. Shankar, J., Verma, P., & Shah, M.P. (Eds.). (2024). Microbial Approaches for Sustainable Green Technologies (1st ed.). CRC Press. Boca Raton FL <https://doi.org/10.1201/9781003407683>  
ISBN 9781032526485. 356 Pages 49 B/W Illustrations

### **Research Grants/International fellowship/other: 05**

1. Morphological and transcripts evaluation from germinating stages of *Aspergillus flavus* 6 lakhs (Sanctioned, UGC No. F. 20-26 (3)/2012 (BSR))
2. Studies on the diversity of entomopathogenic fungi of Chhattisgarh: Understanding the molecular mechanism of entomopathogenesis for bioprospecting 33 lakhs (Co PI) DBT No. BT/PR4484/AGR/5/570/2012
3. DBT-Boost to GuruGhasidas Viwavidyalaya Interdisciplinary Life Science Department for Education and Research 3.69Crore (Sanctioned during GGV tenure) DBT/No.BT/PR 7020/INF/22/172/2012 Group member (Microbiology group).
4. Post-doctoral fellowship (2010-2012) from National Institute of Allergy and Infectious Diseases and National Institutes of Health (URL: nih.gov) Grant 1R21AI85566-01 to DAS.
5. DST-SERB; SSY/2023/000424 Sanctioned Amount-1 lakh 25 may 2023 for International Conference in Biotechnology and Bioinformatics 13-15 July 2023 (Convener)

### **Research guidance**

Ph.D. – (02 currently enrolled, 05 completed); B. Tech / B.Sc. (19/04) – completed; M. Tech/M.Sc. (14 )-completed.

### **Awards and Fellowships**

1. All India Entrance Examination Test for M. Sc. Biotechnology (1999), conducted by Jawaharlal Nehru University (JNU), New Delhi.
2. 1999-2001 Awarded Post-Graduate scholarship during M. Sc. Biotechnology by Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India, India.
3. National Eligibility Test (NET) conducted by Council of Scientific & Industrial Research (CSIR), (2000, 2001).
4. 2004-2006 Awarded CSIR Senior Research Fellow,
5. Awarded travel grant from TIGR, CSIR, DST and INSA to present poster at 7<sup>th</sup> Annual Conference on Computational Genomics” Reston, Virginia, USA, organized by The Institute of Genomic Research (TIGR), October 21-24, 2004.
6. Full scholarship from 2<sup>nd</sup> Advances Against Aspergillosis (AAA2006), 22- 25 Feb 2006, Athens, Greece.
7. ‘BEST Poster Award’, Tarun Kumar Patel, Rajesh Anand, Bhupendra N Tiwary, Jata Shankar\*. Detection of Aflatoxin production in *Aspergillus flavus* strains through triple quadrupole mass spectroscopy. National Conference on Microbial Diversity: Exploration, Conservation & Application" on Feb., 16th & 17th, 2013, Bilaspur (C.G.), India. (Poster), \*Corresponding author)
8. ‘Scholarship Award 7<sup>nd</sup> Advances Against Aspergillosis (AAA2016), 3<sup>rd</sup>-5<sup>th</sup> March 2016, Manchester, United Kingdom.
9. **Travel Grant from DST for Jata Shankar**, Raman Thakur, Shanu Hoda, Shraddha Tiwari, Pooja Vijayaraghavan. Proteome profile provided molecular insight into germination of *Aspergilli* and biosynthesis of secondary metabolites. 5<sup>th</sup> International Congress on Analytical Proteomics (V ICAP 2017). 3 rd – 6 th July 2017 | Caparica | Portugal (Oral Invitation)

**Membership of Professional Bodies:** The American Academy of Allergy, Asthma & Immunology (AAAAI), International Society for Human and Animal Mycology (ISHAM) Life member; Indian Immunology Society (LM/IIS/530/12/16) Life Member; Mycological Society of India (LM-21-16)

### **Ad Hoc Reviewer for Journals No =40**

Contributions to NCBI GenBank database (Total = 1000) Accession No: Isocitrate lyase (AY523574) Nucleoside diphosphate Kinase (AY324230) Malate synthase (AY289197) Heat shock protein (AY551909) Thiamine biosynthesis , Protein (AY792973) Guanylate kinase AY523574) Polyubiquitin (AY817687) Tetratricopeptide (AY881620), Accession numbers (EST)# BM005702, BM032616, BM037654 BQ079382, BQ276244, BM378043- BM378045, BM500121- BM500124

CB331855-CB331862, CB351755-CB351763, CF413594-CF413613 CN373616-CN373643, CN779603-CN779615, CO132900-CO132914 DN626033-DN626085 No.= 153

Gene bank accession for GSS from F1778766-F1779357 (Total number of sequences = 591

Gene bank accession for GSS from JM175074-JM175450 (Total number of sequences =376

SRA-NCBI) under the following accession identifiers: SRX1201397, SRX1201396, SRX1201395, SRX1201394, SRX1201392 (456 million reads).

**Pride database (PXD01679): >2000 peptide sequence for *Aspergillus terreus***

**FDP/ Workshop/Expert Lecture=17**

### Published Article

1. Shankar, Jata, Raman Thakur, Karl V. Clemons, and David A. Stevens. 2024. "Interplay of Cytokines and Chemokines in Aspergillosis" *Journal of Fungi* 10, no. 4: 251. <https://doi.org/10.3390/jof10040251> IF-5 EISSN 2309-608X IF-4.5
2. Sen, P., Vijay, M., Kamboj, H., Gupta, L., Shankar, J. and Vijayaraghavan, P., 2024. cyp51A mutations, protein modeling, and efflux pump gene expression reveals multifactorial complexity towards understanding *Aspergillus* section Nigri azole resistance mechanism. *Scientific Reports*, 14(1), p.6156. IF-4.5 <https://doi.org/10.1038/s41598-024-55237-9> ISSN 2045-2322 (online)
3. Tulika Srivastava, Divya Tyagi, Siraj Fatima, Sathyan, M.T. Vishnu; Ritu Raj, Aniket Sharma, Minal Chaturvedi, Meetali, Sinha, Sonia Shishodia, Dinesh Kumar; Sandeep Sharma, **Jata Shankar**, Aruna Satish,; Smriti Priya. 2024. A natural compound mediated alpha-synuclein aggregation inhibition leads to neuroprotection in *Caenorhabditis elegans* models. *Journal of Neurochemistry*. 168 (8) 1640-1654 <https://doi.org/10.1111/jnc.15907> [IF (2021): 5.5 Print ISSN 0022-3042 IF-4
4. Thakur, R., Shishodia, S. K., Sharma, A., Chauhan, A., Kaur, S., & Shankar, J. (2024). Accelerating the understanding of *Aspergillus terreus*: Epidemiology, physiology, immunology and advances. *Current Research in Microbial Sciences*, 6, 100220. Scopus/SCIE IF-4.5 ISSN: 2666-5174 <https://doi.org/10.1016/j.crmicr.2024.100220>
5. Sharma A, Thakur R, Mittal S, Shankar J. Identification of High-Risk Single Nucleotide Polymorphisms (SNPs) of Epidermal Growth Factor Receptor (EGFR) and Their Interaction with Various TKI Drugs. *Eurasian Journal of Medicine and Oncology*. 2023; 7(4): 334-344 IF-2.5 P-ISSN 2587-2400
6. Rani, M., Mondal, S.M., Kundu, P., Thakur, A., Chaudhary, A., Vashist, J. and Shankar, J., 2023. Edible mushroom: occurrence, management and health benefits. *Food Materials Research*, 3:21. e-ISSN: 2771-4683 Scopus
7. Pooja Sen, Lovely Gupta, Mukund Vijay, Maansi Vermani Sarin, **Jata Shankar**, Saif Hameed and Pooja Vijayaraghavan. (2023) 4-Allyl-2-methoxyphenol Modulates the Expression of Genes Involved in Efflux Pump, Biofilm Formation and Sterol Biosynthesis in Azole Resistant *Aspergillus fumigatus*. *Front. Cell. Infect. Microbiol.* 13: 1103957 - | <https://doi.org/10.3389/fcimb.2023.1103957> Scopus, SCI IF-5
8. Chhavi, Thakur, Amanjot Singh Malhotra, & **Jata Shankar**. Integrated Bioinformatics Analysis to Study Gallic Acid-Mediated Inhibition of Polyketide Synthase A from Aflatoxin Biosynthesis Pathway of *Aspergillus flavus*. *Chemistry Africa* (2023). <https://doi.org/10.1007/s42250-023-00589-4> (Scopus, ESCI) IF-1.2 P-2522-5758
9. **Jata Shankar**. Insight into the metabolic changes during germination of *Aspergillus niger* conidia using nLC-qTOF. *Biologia* (2022, 77, 2701-2714. <https://doi.org/10.1007/s11756-022-01115-6> IF-1.5 SCI and Scopus 0006-3088 -P
10. **Jata Shankar** (2021) Food Habit Associated Mycobiota Composition and Their Impact on Human Health. *Front. Nutr.* 8:773577. doi: 10.3389/fnut.2021.773577 IF-5.5 SCI and Scopus **2296861X**
11. Sonia Kumari Shishodia and Jata Shankar\*, "Exploration of mycelial proteins from *Aspergillus terreus* revealed ribosome biogenesis and antioxidant enzymes", *Current Proteomics* (2020) 17: 5. Pp433-445. IF 0.8 (cite score-1.2 ) <https://doi.org/10.2174/1570164617666191004163734>
12. Agrawal K, **Shankar J**, Kumar R, Verma P. Insight into multicopper oxidase laccase from *Myrothecium verrucaria* ITCC-8447: a case study using in silico and experimental analysis. *J Environ Sci Health B*. 2020;1-13. IF-2.5 doi:10.1080/03601234.2020.1812334

13. Agrawal, K., **Shankar, J.** & Verma, P. Multicopper oxidase (MCO) laccase from *Stropharia* sp. ITCC-8422: an apparent authentication using integrated experimental and in silico analysis. *3 Biotech* **10**, 413 (2020).IF-3 <https://doi.org/10.1007/s13205-020-02399-8>
14. S.K Shishodia, **J. Shankar.** “Proteomic analysis revealed ROS-mediated growth inhibition of *Aspergillus terreus* by shikonin”. *Journal of Proteomics*, vol 224 (103849), pp1-12, 2020 IF 4 (cite score 6.7)
15. Manali Gangwar & **Jata Shankar.** (2020). Molecular mechanisms of floral biology of *Jatropha curcas*: opportunities and challenges as an energy crop. *Frontiers in Plant Science*, *11*, 609. doi: 10.3389/fpls.2020.00609 IF:5.7
16. Hoda, Shanu, Lovely Gupta, **Jata Shankar**, Alok Kumar Gupta, and Pooja Vijayaraghavan. (2020). cis-9-Hexadecenal, a Natural Compound Targeting Cell Wall Organization, Critical Growth Factor, and Virulence of *Aspergillus fumigatus*. *ACS omega*. *5* (17) pp. 10077-10088, **2020** . <https://doi.org/10.1021/acsomega.0c00615> IF: 3.7
17. Anti-melanogenic activity of *Myristica fragrans* extract against *Aspergillus fumigatus* using phenotype based screening. Shanu Hoda, Maansi Vermani, Rajesh. K. Joshi, Jata Shankar and Pooja Vijayaraghavan. **BMC Alternative and complementary medicine**. **20**:67 (2020) <https://doi.org/10.1186/s12906-020-2859-z> IF: 2.7 ISSN: 2662-7671
18. Sonia K. Shishodia, Shraddha Tiwari, Shanu Hoda, Pooja Vijayaraghavan & Jata Shankar\* (2020) SEM and qRT-PCR revealed quercetin inhibits morphogenesis of *Aspergillus flavus* conidia via modulating calcineurin-Crz1 signalling pathway, **Mycology**, DOI: [10.1080/21501203.2020.1711826](https://doi.org/10.1080/21501203.2020.1711826) Print ISSN: 2150-1203 Online ISSN: 2150-1211(UGC list no. 37157) Scopus cite score: 2.3
19. Shraddha Tiwari, Sonia Kumari Shishodia, Jata Shankar. (2019) Docking analysis of hexanoic acid and quercetin with seven domains of polyketide synthase A provided insight into quercetin-mediated aflatoxin biosynthesis inhibition in *Aspergillus flavus* **3Biotech** 9(4):149 <https://doi.org/10.1007/s13205-019-1675-y> [IF-2] Print ISSN 2190572X (99), Online ISSN 21905738
20. Sonia Kumari Shishodia, Shraddha Tiwari, Jata Shankar. (2019). Resistance mechanism and proteins in *Aspergillus* species against antifungal agents. *Mycology*. <https://doi.org/10.1080/21501203.2019.1574927>. Print ISSN: 2150-1203 Online ISSN: 2150-1211(UGC list no. 37157) Scopus cite score: 2.3
21. Raman Thakur and Jata Shankar\*. (2018). Proteome analysis revealed Jak/Stat signaling and cytoskeleton rearrangement proteins in human lung epithelial cells during interaction with *Aspergillus terreus*. **Current Signal Transduction Therapy**. Vol 13 (1) doi : 10.2174/1574362413666180529123513 ISSN: 1574-3624 (UGC list no. 14407)cite score-1.7
22. Jata Shankar\*, Shraddha Tiwari, Sonia K. Shishodia, Manali Gangwar, Shanu Hoda, Raman Thakur and Pooja Vijayaraghavan (2018) Molecular Insights Into Development and Virulence Determinants of Aspergilli: A Proteomic Perspective. **Frontiers in Cellular and Infection Microbiology**. 8:180.doi: 10.3389/fcimb.2018.00180 [IF : 5.2] ISSN: 2235-2988 (UGC list no 17720)
23. Jata Shankar , Gustavo C. Cerqueira, Jennifer R. Wortman, Karl V. Clemons, David A. Stevens. (2018) RNA-Seq Profile reveals Th-1 and Th-17 Type of Immune Responses in Mice Infected Systemically with *Aspergillus fumigatus*. **Mycopathologia**. <https://doi.org/10.1007/s11046-018-0254-9> [IF (2.4) . ISSN: 0301-486X (P) (37158)1573-0832 (E)
24. Shraddha Tiwari and Jata Shankar\*. (2018) Integrated proteome and HPLC analysis revealed quercetin-mediated inhibition of aflatoxin B1 biosynthesis in *Aspergillus flavus*. *3Biotech* 8: 47. <https://doi.org/10.1007/s13205-017-1067-0> [IF-1.3] Print ISSN 2190-572X, Online ISSN 2190-5738
25. Raman Thakur and Jata Shankar\*. (2018) Comprehensive in-silico Analysis of High-risk Non-synonymous SNPs in Dectin-1 Gene of Human and their Impact on Protein Structure. *Current Pharmacogenomics and Personalized Medicine* 15: 2. doi: [10.2174/1875692116666180115142706](https://doi.org/10.2174/1875692116666180115142706)
26. Jata Shankar <sup>¶</sup>, Gustavo C. Cerqueira <sup>¶</sup>, Jennifer R. Wortman, Karl V. Clemons, David A. Stevens. (2018) RNA-Seq Profile of Kidneys of Mice Infected Systemically with *Aspergillus fumigatus*
27. Raman Thakur and Jata Shankar. (2017) Proteome profile of *Aspergillus terreus* conidia at germinating stage; Identification of probable virulent factors and enzymes from mycotoxin pathways. doi:10.1007/s11046-017-0161-5 [IF (2016) : 1.7] .
28. Shraddha Tiwari, Nupur Gupta, Udayabanu M, Jata Shankar\*. (2017) Anti-aspergillus properties of phytochemicals against aflatoxin producing *Aspergillus flavus* and *Aspergillus parasiticus* National Academy science letter [IF(2016) : 0.36] DOI 10.1007/s40009-017-0569-y
29. Raman Thakur and Jata Shankar\*. (2017). New treatment regime for *Aspergillus* mediated infections. *Virology & Mycology Virol-mycol* 6: 162. doi:10.4172/2161-0517.1000163 [IF(2015) : 0.73] . Journal ISSN: ISSN: 2161-0517
30. Shraddha Tiwari, Raman Thakur, Gunjan Goel, Jata Shankar.\* (2016) Nano-LC-Q-TOF Analysis of Proteome Revealed Germination of *Aspergillus flavus* Conidia is Accompanied by MAPK Signalling and Cell Wall Modulation. *Mycopathologia*, 181:769–786. doi:10.1007/s11046-016-0056-x. [IF(2015) : 1.7] .
31. Raman Thakur and Jata Shankar\*. (2016) In silico Analysis Revealed High-risk Single Nucleotide Polymorphisms in Human Pentraxin-3 Gene and their Impact on Innate Immune Response against Microbial Pathogens. *Frontiers in Microbiology*, 7 (192). [IF: 5.6] . Journal ISSN: 1664-302X

32. Shraddha Tiwari, Raman Thakur, Jata Shankar.\* (2015). Role of Heat-Shock Proteins in Cellular Function and in the Biology of Fungi. *Biotechnology Research International* 2015, Articles ID 132635, 11 pages. Impact factor awaited. ISSN: 2090-3138 (Print) ISSN: 2090-3146 (Online)
33. Thakur Raman and Shankar Jata. *In silico* Identification of Potential Peptides or Allergen Shot Candidates Against *Aspergillus fumigatus* BioResearch Open Access. November 2016, 5(1): 330-341. doi:10.1089/biores.2016.0035. Online ISSN: 2164-7860
34. Raman Thakur, Shraddha Tiwari, Jata Shankar\*. (2016) Differential Expression Pattern of Heat Shock Protein Genes in Toxigenic and Atoxigenic Isolate of *Aspergillus flavus*. *British Microbiology Research Journal* 14(2) [IF(2015) : Awaited] . Journal ISSN: 2231-0886.
35. Raman Thakur, Rajesh Anand, Shraddha Tiwari, Agam P. Singh, Bhupendra N. Tiwary, Jata Shankar\* (2015). Cytokines induce effector T-helper cells during invasive aspergillosis; what we have learned about T-helper cells?. *Frontiers in Microbiology*, 6 (429).[IF : 5.6] . Journal ISSN: 1664-302X
36. Karl V. Clemons, Jata Shankar, David A. Stevens. 2016. Mycologic Endocrinology. *Advances in Experimental Medicine and Biology* 874, 337-363 [IF (2015): 2.2] Journal ISSN: 0065-2598
37. Rajesh Anand, Jata Shankar, Bhupendra Nath Tiwary, Agam Prasad Singh. (2015). *Aspergillus flavus* induces granulomatous cerebral aspergillosis in mice with display of distinct cytokine profile. *Cytokine*, 72 (2), 166-172. [IF:4] . Journal ISSN: 1043-4666 (Print), 1096-0023 (Electronic)
38. Tarun Kumar Patel, Rajesh Anand, Agam Prasad Singh, Jata Shankar\*, Bhupendra N. Tiwary (2014). Evaluation of aflatoxin B1 biosynthesis in *A. flavus* isolates from central india and identification of atoxigenic isolates. *Biotechnology and Bioprocess Engineering*, 19 (6), 1105-1113. [IF(2015):1.22
39. Jata Shankar. An overview of toxins in *Aspergillus* associated with pathogenesis. *International Journal of Life Sciences Biotechnology and Pharma Research*. 2013 2 (2) : 16-31. [Impact factor awaited] ISSN: 2250-3137
40. Rajesh Anand, Jata Shankar, Agam P. Singh and Bhupendra N. Tiwary. Cytokine milieu in renal cavities of immunocompetent mice in response to intravenous challenge of *Aspergillus flavus* leading to aspergillosis. *Cytokine*. 2013 61 (1) : 63–70. [IF(2015) : 2.9] .
41. Jata Shankar, Thomas D. Wu, Karl V. Clemons, Jomar P. Monteiro, Laurence F. Mirels, and David A. Stevens. Influence of 17 $\beta$ -estradiol on gene expression of *Paracoccidioides* during mycelia to yeast transition. *PLoS ONE*. 2011 6 (12): e28402. [IF (2015) : 3] Journal ISSN: 1932-6203
42. Jata Shankar, Angela Restrepo, Karl V. Clemons and David A. Stevens. Hormones and the Resistance of Women to Paracoccidioidomycosis. *Clinical Microbiology Reviews*. 2011 24 (2) : 296-313.[IF: 20] Journal ISSN: 0893-8512 (Print), 1098-6618 (Electronic). Cite Score : 40
43. Jomar Patricio Monteiro, Karl V Clemons, Laurence F Mirels, John A Coller Jr, Thomas D Wu, Jata Shankar, Catalina R Lopes, David A Stevens. Genomic DNA microarray comparison of gene expression patterns in *Paracoccidioides brasiliensis* mycelia and yeasts in vitro. *Microbiology*. 2009 Aug; 155 (Pt 8):2795-808.[IF (2015) : 2.2] Journal ISSN: 1350-0872 (Print), 1465-2080 (Electronic).
44. Santosh Kumar Upadhyay, Jata Shankar, Yogendra Singh, Seemi Farhat Basir, Taruna Madan, P Usha Sarma. Expressed sequence tags of *Aspergillus fumigatus*: Extension of catalogue and their evaluation as putative drug targets and/or diagnostic markers. *Indian Journal of Clinical Biochemistry*. 2009, 24 (2): 131-136. [IF (2015) : 0.9] Journal ISSN: : 0970-1915 (Print), 0974-0422 (Electronic)
45. Preeti J Bhetariya, Jata Shankar, Yogendra Singh, Taruna Madan, Anupam Varma, Seemi Farhat Basir, P Usha Sarma. Multiplex PCR for Detection of *Aspergillus fumigatus*, *Aspergillus flavus* and *Aspergillus niger*. *The Journal of Allergy and Clinical Immunology*. 2009 123(2) : S160/Abstract (Impact factor: 11).[IF (2015) : 12.4] Journal ISSN: 0091-6749 (Print), 1097-6825 (Electronic).
46. Poonam Gautam\*, Jata Shankar\*, Taruna Madan, Ravi Sirdeshmukh, Curam Sreenivasacharlu Sundaram, Wasudev Namdeo Gade, Seemi Farhat Basir, Puranam Usha Sarma. Proteomic and transcriptomic analysis of *Aspergillus fumigatus* on exposure to amphotericin B. *Antimicrob Agents Chemother*. 2008 52(12) : 4220-4227. (Poonam Gautam and Jata Shankar<sup>#</sup>, are jointly first author).[IF: 5] Journal ISSN: 0066-4804 (print) 1098-6596 (Cite Score:8)
47. Jata Shankar, Santosh Kumar Upadhyay, Saurabh Gupta, Seemi Farhat Basir, P Usha Sarma, Taruna Madan. Global Expression Profile of *Aspergillus fumigatus* Conidia during Interaction with Murine Macrophage. *The Journal of Allergy and Clinical Immunology*. 2008 121(2) : S134/Abstract. [IF (2015) : 12.4]
48. Jata Shankar, Taruna Madan, Seemi Farhat Basir, P. Usha Sarma. 'Identification and characterization of Polyubiquitin gene from cDNA library of *Aspergillus fumigatus*' *Indian Journal of Clinical Biochemistry*, 2005 20 (1): 208-212. [IF (2015) : 0.9]
49. Jata Shankar, Shailly Nigam, Shweta Saxena, Taruna Madan, P. Usha Sarma. Identification and Assignment of Function to the Genes of *Aspergillus fumigatus* Expressed at 37°C. *Journal of Eukaryotic Microbiology*. 2004 (4) 428-432 [IF (2015) : 2.7] Journal ISSN:1066-5234 (Print), 1550-7408

#### Book chapters

50. Karl V. Clemons, Jata Shankar and David A. Stevens. Mycologic endocrinology. 2010 p. 269-290. In P. P. E. Freestone, M. Lyte (eds.), *Microbial endocrinology: interkingdom signaling in infectious diseases and health*. Springer-Verlag New York. Hardcover ISBN, eBook ISBN 978-1-4419-5576-0.
51. Thakur R and Shankar J. Strategies for gene expression in Prokaryotic and Eukaryotic system. V.C. Kalia, A.K. Saini (eds.), *Metabolic Engineering for Bioactive Compounds*, DOI 10.1007/978-981-10-5511-9\_11 Springer (2017).
52. Ankit Srivastava, Saurabh Bansal and Jata Shankar. Developments and diversity of proteins and enzymes. V.C. Kalia, A.K. Saini (eds.), *Metabolic Engineering for Bioactive Compounds*, DOI 10.1007/978-981-10-5511-9\_2 Springer (2017).
53. Shraddha Tiwari and Jata Shankar\*. (2018) Hsp70 in Fungi: Evolution, Function and Vaccine Candidate. A. A. A. Asea, P. Kaur (eds.), *HSP70 in Human Diseases and Disorders*, Heat Shock Proteins 14, [https://doi.org/10.1007/978-3-319-89551-2\\_20](https://doi.org/10.1007/978-3-319-89551-2_20) (ISBN: 9783319895505) Springer International Publishing AG
54. Aanchal Bansal, Megha Sharma, Aakanksha Pandey, Jata Shankar. 2023. Aflatoxins: Occurrence, Biosynthetic Pathway, Management and Impact on Health. I. Singh et al. (eds.), *Fungal Resources for Sustainable Economy*, [https://doi.org/10.1007/978-981-19-9103-5\\_21](https://doi.org/10.1007/978-981-19-9103-5_21) pp565-596 ISBN 978-981-19-9102-8 Springer Nature Singapore Pte Ltd. 2023
55. Chhavi Thakur and Jata Shankar. 2022. Bioinformatics Integration to Biomass Waste Biodegradation and valorization. (Ed) Next-Gen Technological Advances for Sustainable Development of Enzyme based Biorefinery edition-1 <https://doi.org/10.1201/9781003187721-8> ISBN 9781032035208 (CRC Press, Boca Raton) PP177-204
56. Sonia Kumari Shishodia , Raman Thakur, Priya Gautam, Saurav, Neha, and Jata Shankar. Drug-Resistance Patterns in Opportunistic *Aspergilli*: A Molecular Perspective S. Hameed, P. Vijayaraghavan (eds.), *Recent Advances in Human Fungal Diseases*, [https://doi.org/10.1007/978-981-97-4909-6\\_17](https://doi.org/10.1007/978-981-97-4909-6_17) Springer Nature Singapore Pte 2024 ISBN 9819749085

#### **Conferences/Abstracts (Total =27)**

##### **Workshop organised**

1. Five days Hands-on Workshop on “Next Generation Sequencing Data Analysis” from 20-24 March, 2023 at Jaypee University Of Information Technology, Wagnaghat H.P

##### **Conference organized**

1. International Conference in Biotechnology and Bioinformatics 13-15 July 2023 2023 at Jaypee University Of Information Technology, Wagnaghat H.P