


Title	Dr.	Name	Sudhir Kumar Jain		Photograph 
Department	School of Studies in Microbiology				
Designation	Reader/Associate Professor				
Address	Office- School of Studies in Microbiology Vikram University, Ujjain (MP) 456010 Res - M-II/2, Vikram University Campus, Ujjain (MP) 456010 India				
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Residence					
Mobile	+91 9425336379				
E-Mail	sudhirkjain1@rediffmail.com sudhnanda@rediffmail.com				
Educational Qualifications					
Degree	Institution	Year			
Ph.D.	Dr. Hari Singh Gaur University, Sagar (MP)	1991			
PG	Dr. Hari Singh Gaur University, Sagar (MP)	1988			
UG	Dr. Hari Singh Gaur University, Sagar (MP)	1985			
Other					
Career Profile					
<u>Organization</u>	<u>Designation</u>	<u>Duration</u>	<u>Role</u>		
Vikram University Ujjain (MP)	Reader/Associate Professor	2010 onwards	Teaching and Research		
Vikram University Ujjain (MP)	Reader	2007-2010	Teaching and Research		
College of Life Sciences, Cancer Hosp & Res. Instt. Gwalior (MP)	Sr. Lecturer	1993-2007	Teaching, Research & Microbiological Diagnosis		
College of Life Sciences. Cancer Hosp & Res. Instt. Gwalior (MP)	Demonstrator	1992-1993	Teaching, Research & Microbiological Diagnosis		
Dr. H. S. Gour University Sagar (MP)	Contract Lecturer / Adhoc Lecturer	1991-1992	Teaching and Research		

Area of Interest/ Specialization
<p>The current research activities are focused on understanding the Medical microbiology i.e., host-pathogen interaction; modulation of host cell death; identification of novel drug targets for new drug development; pathogen physiology and development of persistence, multi-drug tolerant phenotype, Biodiversity and secondary metabolites production of Keratinophilic and soil fungi. Biodiversity of Biodegradation of monuments, Production of enzymes</p>
Subjects Taught
<p>Teaching Medical microbiology, Microbial technology, Food and Industrial microbiology, Virology, Medical Mycology and Biotechnology courses to M.Sc. (Microbiology), B. Sc. and B.Sc. (H) (Microbiology) students for the last 24 years.</p>
Publication Profile
Research Papers:
<p>(A). Journal Papers: <u>International:</u></p> <ol style="list-style-type: none"> 1. Subhedar Vaibhavi , Subhedar Rohit, Pipliya S and Jain Sudhir Kumar (2015) Bacterial Contamination of Mobile Phones of Health Care Workers in A Tertiary Care Hospital, <i>Indian Journal of Applied Research</i>,5 (8) :732-735 ISSN - 2249-555X Impact factor: 3.4 2. Dubey Shivani and Jain Sudhir Kumar (2015) Extracellular Enzymatic Profile of Fungal Deteriogens of Historical Palace of Ujjain, <i>International Journal of Current Microbiology and Applied Sciences</i>, 4(5): 122-132 ISSN: 2319-7706 3. Khan AA, Khan Zakir, Malik Abdul, Shrivastava A, Jain Sudhir K and Alshamsan AWS (2015) Computational prediction of escherichia coli proteins host subcellular targeting and their implications in colorectal cancer etiology, <i>Cancer Letters</i>, 364(1):25-32 http://dx.doi.org/10.1016/j.canlet.2015.04.024 Available online 24 April 2015 Impact factor: 5.6 4. Shrivastava A, Khan AA, Khurshid M, Kalam, MA, Jain SK and Singhal PK (2015) "Recent Developments in L-asparaginase Discovery and Its Potential as Anticancer Agent, <i>Critical Reviews in Oncology/ Hematology</i>, DOI 10.1016/j.critrevonc.2015.01.002, ISSN: 1040-8428 Impact factor: 4.46 5. Goyal Abhineet and Jain Sudhir Kumar (2015) Prevalence of nosocomial infections associated with Cancer Patients, <i>International Journal of Pharmaceutical and Clinical Research</i>,7(2) ISSN: 0975 1556; Impact Factor: 1.153. 6. Subhedar Vaibhavi, Subhedar Rohit and Jain Sudhir Kumar (2015).Bactericidal effect of crude Neem (<i>Azadirachta indica</i>) leaf extract of pathogenic bacteria, <i>Life Sciences- International Research Journal</i>, 2(1):483-486. ISSN 2347-8691, ISBN 978-81-928281-26-7. 7. Singh Salil and Jain SK (2015). <i>Aerthoderma multifidum</i> reported from soil of Ujjain, India, <i>Life</i>

Sciences- International Research Journal,2(1):376-379.ISSN 2347-8691, ISBN978-81-928281-26-7.

8. Rathore Geetanjali and **Jain Sudhir Kumar** (2015).Biodiversity of Keratinophilic fungi from soils of Mangalnath temple in Ujjain, *Life Sciences- International Research Journal*, 2(1):326-328.ISSN 2347-8691,ISBN978-81-928281-26-7.
9. Subhedar Vaibhavi, Bharihoke Neelam, Singh Praveen, Gupta Poonam, **Jain Sudhir Kumar**, Chaturvedi Kiran (2014). “Microbial Endophthalmitis: Incidence Spectrum and Antibiotic Sensitivity Pattern of Bacterial Isolates”. *Journal of Evidence based Medicine and Healthcare*; 1(12), November 24: 1534-1541.
10. Rathore Geetanjali and **Jain Sudhir Kumar** (2014). Occurrence of keratinophilic fungi from soils of Ujjain (Holly city), *International Research Journal of Biological Sciences*, 3(10):28-31 October ISSN 2278-3202 (www.isca.in, www.isca.me)
11. Bhatnagar Preeti and **Jain S.K.** (2014). Alternative control techniques against fungal colonization for preserving monument deterioration, *International Journal of Current Microbiology and Applied Sciences*, 3(7): 40-43 ISSN:2319-7706
12. Kaushik Shuchi, Bhatnagar Preeti, Mishra Raghvendra Kumar, Shrivastav Archana, **Jain Sudhir Kumar** and Tomar Rajesh Singh (2014) *In-vitro* Efficacy Analysis of Few Essential Oils for their Antibacterial Activity against Methicillin Resistant *Staphylococcus aureus* , *Am. J. Pharm Tech Res.*; 4(1):368-377. ISSN: 2249-3387. Impact factor-.9832
13. Kaushik Shuchi, Tomar Rajesh Singh, Shrivastava Vikas, Shrivastav Archana and **Jain Sudhir Kumar** (2014). Antimicrobial efficacy of essential oils of selected plants and vaccine design against *mecA* protein of Methicillin Resistant *Staphylococcus aureus*, *Asian J Pharm Clin Res*, 7, Suppl 1, 52-56 ISSN - 0974-2441 Impact factor- .52, , Cited by 1, ICV- 4.5
14. Kaushik Shuchi, Tomar RS, Shrivastav V, Shrivastav A and **Jain SK** (2014). Ethnic consumption of plant leaf extracts and appraisal of Their nutraceutical efficacy against multidrug resistant *Staphylococcus aureus*, *International Journal of Biology, Pharmacy and Allied Sciences*, 3(2): 204-209 ISSN: 2277-4998, Impact factor- .471
15. Singh Priti and **Jain Sudhir Kumar** (2014) Biosynthesis of Nanomaterials: Growth and Properties. *Reviews in Advanced Sciences and Engineering*, 3(3), pp. 1-8, (www.aspbs.com/rase) doi:10.1166/rase.2014.1066.
16. Dubey S. and **Jain S.K.** (2014). Effect of Humidity on Fungal Deteriogens of Ancient Monuments, *International Research Journal of Biological Sciences*, Vol. 3(4), 84-86, April ISSN 2278-3202 (www.isca.in, www.isca.me)
17. Shouche Shobha, Bhati Praveesh and Jain Sudhir (2014). Recycling wastes into valuable Organic fertilizers, *International Journal of Researches in Bioscinces, Agriculture & Technology*, 2(II):520-527 May ISSN (Online) 2347-517X

18. Shouche Shobha, Bhati Praveesh, Nema Zeemi and **Jain Sudhir Kumar** (2014) Mycobiota of decomposing floral waste materials. *Asian Journal of Microbiology, Biotechnology and Environmental Science*, 16(2): 181-186. ISSN-0972-3005
19. Hussain Ashma, Shrivastav Archana and **Jain Sudhir K.** (2013). Antifungal activity of essential oils against local wood degrading cellulytic filamentous fungi, *Advances Bioresearch*, 4:2,161-167 Impact factor-- .9710
20. Hussain Ashma, Shrivastav Archana , **Jain Sudhir K.**, Baghel RK, Rani S. and Agrawal MK (2012). Cellulytic enzymatic activity of soft rot filamentous fungi *Paecilomyces variotii*, *Advances Bioresearch*, 3:3,10-17 Impact factor-- .9710
21. Kaushik Shuchi, Shrivastav Archana and **Jain Sudhir Kumar** (2012) *In silico* analysis of vaccine target against multidrug resistant *Staphylococcus aureus* *International Journal of Current Research*, 4(9):092-094. ISSN: 0975-833X Available online at <http://www.journalcra.com> Cited by 1, Impact factor-- 3.845
22. Bhati Praveesh , Shouche Shobha and **Jain Sudhir Kumar** (2012) New method for transfer of fungal inoculums, *International J. Microbial Resource Technol.* 1(4):388-390 ISSN 2278 – 3822 Available at <http://ijmrt.inpressco.com> Impact factor-- .425
23. Shrivastava A., Khan A.A., Shrivastav A., **Jain S.K.**, Singhal P.K., (2012) Kinetic Studies of L-asparaginase from *Penicillium digitatum*, *Preparative Biochemistry & Biotechnology* 42:574-581 Online ISSN 1532-2297 Print ISSN: 1082-6068). Cited by 1, Impact factor-- .699
24. Shouche Shobha, Bhati Praveesh, Shouche Sanjay and **Jain Sudhir Kumar** (2012). The effect of pH on the growth of floral degrading fungi *in vitro*, *BIONANO FRONTIER*, 9:233-235 .
25. Tiwari JN, Chaturvedi, P., Ansari NG, Patel DK, **Jain Sudhir Kumar** and Murthy RC (2011). Assessment of Polycyclic Aromatic Hydrocarbons (PAH) and Heavy Metals in the Vicinity of an Oil Refinery in India, *Soil and Sediment Contamination: An International Journal*, 20:315–328. Cited by 2. Impact factor-- .575
26. Shrivastava A., Khan A.A., **Jain S.K.**, Singhal P.K., Jain S., Marotta F., Yadav H. (2010) Biotechnological advancement in isolation of anti-neoplastic compounds from natural origin: a novel source of L-asparaginase, *Acta Biomed* ; 81(2) : 104-108 Cited by 9
27. Tiwari JN, Reddy MMK, Patel DK, **Jain Sudhir K**, Murthy RC and Manickam (2010) Isolation of pyrene degrading *Achromobacter xylooxidans* and characterization of metabolic product, *World J Microbiol Biotechnol* DOI 10.1007/ s11274-010-0350-6 (On line) Cited by 11, Impact factor-- 1.353
28. Mishra A, Shrivastav A and Jain SK (2010) Screening of some plant extracts against *Alternaria* sp. Isolated from foot infections in Cancer patients, *International J of Pharm Tech Research* 2(2):1165-1170 Cited by 7
29. Tiwari Jitendra Nath, Jain Sudhir kumar and Patel Devendra Kumar (2010) Monitoring of lead and cadmium load on road side plant species in Lucknow, India, *Environment and Ecology*

30. Khan A. A, Shrivastav, Abhinav, and **Jain, Sudhir K.** (2009) In vitro susceptibility of antibiotics against pathogenic bacteria, *BIOZONE International Journal of Life Science*, 1(1): 24-27
31. Khan A. A., **Jain, Sudhir K.** And Shrivastav, A (2008) Prevalence of dental caries among the population of Gwalior (India) in relation of different associated factors, *European Journal of Dentistry*, 2(1): 81-85. Cited by 29
32. Faterpekar, S. K., **Jain, Sudhir K.** And Shrivastav, A. (2008) Degradation of horse hair by soil inhabiting keratinophilic fungi, *Journal of Cell and Tissue Research*; 8(2) 1471-1476 Cited by 1, NAAS Impact factor—4.38
33. **Jain Sudhir K.**, Agrawal S. C. and Jain P.C.(2003) Subcutaneous phaeohyphomycosis on face caused by *Cladophialophora bantiana*, *Mycoses* (Germany) 46 (5& 6): 237-239. Cited by 6, Impact factor- 1.807
34. **Jain Sudhir K.** and Agrawal S.C (2002) Fungistatic activity of some perfumes against otomycotic pathogens *Mycoses* (Germany) 45 (1&2): 88-90. Cited by 17, Impact factor- 1.807.
35. Singh Vinod ; **Jain Sudhir K.** ; Shrivastav Archana (2001) Identification of polymicrobial infection from necrotized tumors, *Biomedical Research (Biomed. Res.)*, vol. 22, no 4, pp. 187-190.
36. **Jain Sudhir K.** and Agrawal S.C. (1994) Fungitoxic effect of some organic volatile against fungi causing otomycosis, *Mycoses* (Germany), 37 (7 & 8): 299-301. Cited by 12, Impact factor- 1.807
37. **Jain Sudhir K.**, Agrawal S.C. and Malaiya Seema (1993) Antimycotic effect of fixed oils treated with herbal seeds on the growth of fungi causing otomycosis, *Ancient Science of Life*, XIII (1 & 2): 160-161.
38. **Jain Sudhir K.** (1993) A note on Antimycotic activity of milk, *Ancient Science of Life*, XIII (3 & 4): 335-337
39. **Jain Sudhir K.** and Agrawal S.C. (1992) Sporostatic effect of some oils against fungi causing otomycosis, *Indian Journal of Medical Sciences*, 46 (1):1-6. Cited by 7, Impact factor- 1.67

Nationals:

40. Shrivastava A., Khan A.A., Shrivastav A., **Jain Sudhir K.**, Singhal P.K., (2014) L-asparaginase- An antineoplastic enzyme, *Research Journal (Madhya Bharti)* January 17-21.ISSN-0972-7434.
41. Jain Manisha, Khan Abdul Arif, Gupta Amita, Manish Pandey, Bhatnagar Preeti & **Jain Sudhir K** (2008) An epidemic of typhoid fever in a hostel *Indian Journal of Field Veterinarians (IJFV)*, 4(1): 46-47.
42. Bhatnagar Preeti, Khan Abdul Arif, Jain Manisha, Kaushik Shuchi & **Jain Sudhir K** (2007) Microbiological study of khoa sold in chambal region (Madhya Pradesh); *Indian Journal of*

Microbiology, 47:263–266. Cited by 4, Impact factor- .832

43. Bhatnagar Preeti, Khan A. A., Jain Manisha & **Jain Sudhir K.** (2007) Bacteriological study of khoa sold in Gwalior & Morena city (Madhya Pradesh) in relation to public health, *Asian J. Exp. Sci.*, Vol. 21, No. 1, 55-62. - Cited by 3
44. **Jain Sudhir K.**, Singh V. & Sanjiv Gupta (2003) In vitro susceptibility of chloroquine (4–aminoquinolines) against pathogenic bacteria, *Indian J of Microbiology*, 43 (2):147-48. Cited by 1. Impact factor- .832
45. Singh V. & **Jain Sudhir K.** (2002) Rheumatoid factor lacks association with either tumor burden or IgG-circulating immune complexes in cancer patients, *J Immunology and Immunopathology*, Vol 5.
46. **Jain Sudhir K.**, Singh V. & Gupta Sanjiv (2002) Immunological study of onychomycosis caused by *Candida albicans*, *J Immunology and Immunopathology*, 4: (1&2): 101- 103 Cited by 1
47. **Jain Sudhir K.**, Agrawal S.C. and Jain P.C. (2002) In vitro evaluation of sulfa drugs against fungi causing Otomycosis, *Hindustan Antibiotics Bulletin* 44: 42-46.
48. **Jain Sudhir K.**, Jain P.C & Agrawal S.C. (2002) Onychomycosis caused by *Candida albicans*, *Indian Medical Gazette*, Vol CXXXVI (5): 216-218
49. Singh V., **Jain Sudhir K.** and Shrivastav Archana (2001) Molecular chaperones and cancer vaccines , *J Immunology and Immunopathology*, 3:1–10
50. Chauhan U.K., Soni P., Singh V. & **Jain Sudhir K** (2001) Antimicrobial activities of Rhizome of *Curcuma longa* Linn., *Indian Medical Gazette*, CXXXV (8): 241-243.
51. Singh V. and **Jain Sudhir K.** (1999) In vitro Susceptibility of new generation of antibacterial antibiotics against pathogenic bacteria, *Hindustan Antibiotics Bulletin*, 41:41– 44.
52. **Jain Sudhir K.** and Agrawal S.C (1995) Antimycotic activity of some essential oils, *Asian J. Exp. Sci.*, 9 (1& 2): 1-3. Cited by 1

Chapters Contributed to Edited Books Published by International Publishers:

53. Kaushik Shuchi, Shrivastav Archana, **Jain Sudhir Kumar** (2014) “Biological effectiveness of selective volatile oils of plant origin against Methicillin Resistant *Staphylococcus aureus* prevalent in hospital environmental settings” published *In: Current Researches in Environmental Sciences*, Astral International Publishers, p.131-140 (ISBN No. 9789351242598).
54. Shrivastava A., Khan A.A., Khurshid M Kalam MA., **Jain S.K.**, Singhal P.K. (2012). “Recent developments in the field of L-asparaginase discovery and its potential as anticancer agents”, *In: Frontiers in Anticancer Drug Discovery* (Ed) Rahman A. & Choudhary M.A, Benthan Science Publishers (U.K.)
55. Shrivastava A, Khan A.A., **Jain S.K.** and PK Singhal (2012) "Bacterial Asparaginase: A potential

antineoplastic agent for treatment of acute lymphoblastic leukemia“, *In: Bacteria and Cancer* (Ed.) Abdul Arif Khan, Springer Science Publisher, Netherlands pp. 225-244 (ISBN 978-94-007-2584-3) e- ISBN 978-94-007-2585-0, DOI 10.1007/078-94-007-2585-0

56. Bhatnagar Preeti, Khan Abdul Arif, **Jain Sudhir K.**, Rai MK (2010) Biodeterioration of archeological monuments and approach for restoration *In: Geomicrobiology*, Edited by Jain Sudhir K, Khan A. A. & Rai M K, Published by CRC Press, Taylor and Francis Group, Science Publishers, USA Chapter -9 p. 255-302.(ISBN 978-1-57808-665-8)

Chapters Contributed To Edit Books Published By National Publishers:

57. Kaushik Shuchi, Shrivastav Archana, **Jain Sudhir Kumar** (2012) “A novel immune-informatics search of targets for vaccine designing against multidrug resistant *Staphylococcus aureus* transmitted from environmental settings” published in *Frontiers in Environmental Research*, Academic Excellence, p.176-181.
58. Sudhir Kumar Khan A. A., Bhatnagar Preeti, **Jain Sudhir K.**, Deshmukh SK & Rai MK (2009) Recent methods for molecular study of fungal community structure with special reference to DGGE and TGGE In: *Advances in Fungal Biotechnology*, Edited by Prof M K Rai, I. K. Publishers, New Delhi. Chapter-16, p65 (ISBN 978-81-89866-53-2, ISBN 81-239-1087-8).
59. **Jain Sudhir K.**, Jain P. C., Agrawal S. C. & Deshmukh S. K (2005) Vaccination against fungi: Emerging strategy *In: Fungi: Diversity and Biotechnology*. Edited by Dr M K Rai & Dr S. K. Deshmukh, Published by Scientific Publishers (India), Jodhpur, pp283-304 (ISBN 81-7233- 403-6)
60. **Jain Sudhir K.**, Jain P. C. & Agrawal S. C (2004) Mechanisms of cell-mediated immunity in Fungal infection, In: *Microbiology and Biotechnology for Sustainable Development*”, Edited by Dr P. C. Jain, Published by CBS Publishers & Distributors, New Delhi,pp141–150.(ISBN81-239-1087-8)
61. **Jain Sudhir K.**, Singh V., Shrivastav Archana & Agrawal S.C. (2000) Bacterial Toxins: Mechanism of Action & Immunological Perspective *In: Microbial Biotechnology for Sustainable Development and Productivity*”, edited by Prof. R.C. Rajak, Scientific Publishers (India), pp 396 to 421 (ISBN 81-7233-225-4)

(B). Conference Papers:

International:

62. **Jain Sudhir K.**, Shrivastav Archana and Agrawal S.C (2004) Incidence of *Candidiasis* in leukoplekia cases in cancer suspected patients. *In: Microbiology and Biotechnology for Sustainable Development* Edited by Dr PC Jain, Published by CBS Publishers & Distributors, New Delhi, pp. 354-357.

Nationals:

63. Sharma Mukul, Dubey Shivani, Darwhekar Gajanan, and **Jain Sudhir Kumar** (2015) The Diverse Applications of Plasma , Published by the AIP Publishing, *AIP Conf. Proc.* 1670,

Books Published:

- 1- **Jain Sudhir Kumar**, Khan A.A. & Rai MK (Editors) (2010) "**Geo-microbiology**", Published by CRC Press, Taylor and Francis Group, Science Publishers, USA. (ISBN 978-1-57808-665-8) (www.scipub.net)

Research Guidance

Supervision of Awarded Doctoral Thesis:

- 1- **Dr. Deepti Rajput** (2015) title of the Ph.D.thesis "*Study of fungi associated with stored dry fruits*" Jiwaji University, Gwalior
- 2- **Dr. Pravesh Bhati** (2014) title of the Ph.D. thesis "*Degradation of floral waste by fungi isolated from vermicompost materials*" Vikram University, Ujjain
- 3- **Dr. Ashma Hussain** (2013) title of the Ph.D.thesis "*Amelioration of wood decay: Isolation and evaluation of cellulolytic potential from filamentous fungi*" Jiwaji University, Gwalior
- 4- **Dr. Shuchi Kaushik** NET Qualify (2013) title of the Ph D thesis "*Exploitation of antimicrobial agents from various sources against Methicillin Resistant Staphylococcus aureus*" Jiwaji University, Gwalior
- 5- **Dr. Sanjay S. Shatdhar** (2013) title of the Ph D thesis "*Sudies on keratinophil fungi with special reference to Gwalior division*" Jiwaji University, Gwalior
- 6- **Dr. Abhinav Shrivastava** NET Qualify (2012) title of the Ph.D. thesis "*Screening and purification of L-asparaginase from filamentous fungi*" Rani Durgavati University, Jabalpur
- 7- **Dr. Alka Mishra** (2012) title of the Ph D thesis "*Amelioration of fungi causing foot infections among Human beings with special reference to different varities of Tagetes sp.*" Jiwaji University, Gwalior
- 8- **Dr Jitendra Nath Tiwari** (2011) title of the Ph D thesis "*Studies of poly aromatic hydrocarbons (PAHs) and heavy metals in surrounding of Indian oil refinery and bioremediation of pyrene*" Vikram University, Ujjain
- 9- **Dr. Sujata Goutam** (2010) title of the Ph. D. thesis "*Antimicrobial activity of some medicinal plants used by tribal people to cure skin diseases*" Jiwaji University, Gwalior.
- 10- **Dr. Shilpa Faterpekar** (2009) title of the Ph.D. thesis "*Morphological and physiological studies of Keratinophilic fungi from the soils of cold desert*" Jiwaji University, Gwalior
- 11- **Dr. Preeti Sharma** (2009) title of the Ph.D. thesis "*Efficacy of antimicrobial agents against bacteria associated with gall bladder patients*" Jiwaji University, Gwalior

- 12- **Dr. Preeti Bhatnagar** Net qualified (2008) title of the Ph.D. thesis “*Geomicrobiological study of Gwalior fort with special reference to fungi and restoration measures*” Jiwaji University, Gwalior
- 13- **Dr. Manisha Jain** (2008) title of the Ph.D. thesis “*In vitro evaluation of antimicrobial agents against bacteria associated with diabetic patients*” Jiwaji University, Gwalior
- 14- **Dr. Abdul Arif Khan** (2008) title of the Ph.D. thesis “*Study of some teeth decaying microorganisms in Gwalior region with special reference to bacteria*” Jiwaji University, Gwalior
- 15- **Dr Gourav Raikhy**, NET qualified (2006) title of the Ph.D. thesis “*Molecular characterization and development of diagnostics against virus (es) cause mosaic-mottling disease in carnations (Dianthus caryophyllus)*”, Jiwaji University, Gwalior.
- 16- **Dr Vinita Tiwari** (1994) title of the Ph D thesis “*Studies on Staphylococcal infection in human beings with special reference to the carrier problem*”, Jiwaji University, Gwalior.

Supervision of Doctoral Thesis, Under Progress:

- 1- **Ms. Shivani Dubey** (2009) title of the Ph.D. thesis “*Geomicrobiological study of Kaliadah palace Ujjain with special reference to fungi and restoration measures*” Vikram University, Ujjain
- 2- **Ms. Geetanjali Rathore** (2011) title of the Ph.D. thesis “*Physiochemical study of keratinophilic fungi from Ujjain region*” Vikram University Ujjain
- 3- **Mr. Salil Singh** NET Qualify (2009) title of the Ph.D. thesis “*Amelioration of keratin degradation isolation and evaluation of keratinolytic potential from fungi*” Vikram University Ujjain

Supervision of M.Phil Dissertations: 03 students

Conferences Organized

1. Joint Secretary of organizing committee for National Symposium on Molecular Biology in India: A Postgraduate Update, (18th Jan 2003) Sponsored by UGC, ICMR, MPCST and Organized by College of Life sciences, Cancer Hospital & Research Institute, Gwalior MP.
2. Joint Secretary of organizing committee for National Symposium on Recent Trends in Molecular Biology, (27th -28th Feb 2006) Sponsored by UGC, ICMR, MPCST and Organized by College of Life sciences, Cancer Hospital & Research Institute, Gwalior MP.

Conferences / Seminars etc. Attended

International/ National Conference/ Symposium/Seminars/ Workshop: (Attended And Presented Research Papers):

- 1- **International Conference on Recent trends in Agriculture, Veterinary & Life Sciences** held on

30-31 January, 2015 organized by Vikram University, Ujjain 456010 India.

- 2- **International Conference on Emerging Challenges in Biotechnology, Human Health & Environment & 8th Annual Convention of Association of Biotechnology and Pharmacy** held on 18-20 December, 2014 organized by Devi Ahilya University, Indore, India.
- 3- **Rastriya Samvimarsh** on Swatrantra Bharat me Shiksha Ayogon ki Anushansayen, Kriyavayan and Prasangikata held on 13-14 December, 2014 organized by Vikram University Ujjain and Shiksha Sansakriti Utthan Nyas, New Delhi.
- 4- **National Seminar** on Waste Management in Indian Scenario held on 22nd November 2014 organised by Ujjain Engineering College Ujjain, sponsored by Directorate of Technical Education, Bhopal (MP)
- 5- **National Conference** on Emerging Trends in Computing Technology held on 26-27 August, 2014 organized by School of Engineering & Technology, Vikram University, Ujjain (MP)
- 6- **National Seminar** on Recent Trends in Nanotechnology and Its Application held on April, 13-14, 2014 Organized by Career Point Technical Campus, Rajsamand, Rajsthan.
- 7- **National Seminar** on Biodiversity: Assessment Utilization and Conservation held on March, 22-23, 2014 Organized by Maharaja Mansingh College Gwalior sponsored by UGC, CRO, Bhopal M.P.
- 8- **National Seminar** on Intellectual Property Rights held on 21st April 2012 organized by Alpine Institute of Technology, Ujjain & M.P.
- 9- **National Seminar** on Climate Change held on 5th June 2010 organized by SOS Botany Vikram University, Ujjain
- 10- **Second International Conference** on climate change and sustainable management of natural resources held on 5th -7th Dec. 2010 organized by Institute of Allied Sciences & Computer Applications, ITM Universe, Gwalior
- 11- **International Conference** on Wetland Systems Technology in Water Pollution Control held on 1st -7th Nov. 2008 organized by International Water Association (IWA) and IEMPS, Vikram University, Ujjain MP, India
- 12- **International Conference** on Toxicology, Toxicogenomics and Occupational Health (ICTTOH) & 26th Annual meeting of Society of Toxicology (STOX) India held on 9th – 11th October 2006 organized by School of Studies in Zoology, Jiwaji University Gwalior MP, India
- 13- **International Symposium & Workshop** on Gynaec Oncology held on 27th -28th Nov., 2006 organised by Govt GR Medical College and Cancer Hospital and Research Institute, Gwalior MP, India.
- 14- **Symposium** on “How to Write Scientific/Medical Paper” held on 24th September, 2006 organized by Cancer Hospital & Research Institute & G. R. Medical College Gwalior MP.

- 15- **National Seminar** on Modern Trends in Intellectual Property Rights Issues held on 3rd –5th March 2006, organized by Department of Botany, Jiwaji University Gwalior MP.
- 16- **National Symposium** on Recent Trends in Molecular Biology held on 27th –28th Feb 2006, Sponsored UGC, ICMR MPCST and Organized by College of Life Sciences, Cancer Hospital & Research Institute Gwalior MP
- 17- **National Symposium** on Molecular Biology in India: A Postgraduate Update held on 18th Jan 2003, Sponsored UGC, ICMR, MPCST and Organized by College of Life sciences, Cancer Hospital & research Institute Gwalior MP
- 18- **National Seminar** on Present Status of Microbiology & Challenges for Sustainable Development held on 5th – 7th March 2001 organized by Department of Applied Microbiology & Biotechnology, Dr. H.S. Gaur University Sagar (M.P.).
- 19- **International Symposium** on Microbial Biotechnology for Sustainable Development and Productivity held on 14th – 16th Nov. 1998 organized by Department of Biological Sciences, R.D.V. University Jabalpur MP, India
- 20- **84th Session** of the Indian Science Congress Association held on 3rd – 8th Jan.1997 organized by Delhi University New Delhi.
- 21- **32nd Annual Conference** on Association of Microbiologist of India held on 10th – 12th Jan. 1992 organized by Department of Microbiology, M.K.U. Madurai.
- 22- **79th Session** of the Indian Science Congress Association held on 3rd – 8th Jan 1992 Organized by M D University Baroda (Guj.).
- 23- **National Research Conference** on Microorganisms and Environment held on 13th –14th Feb. 1991 organized by R.D.V. University Jabalpur MP
- 24- **78th Session** of the Indian Science Congress Association held on 3rd – 8th Jan. 1991 organized by D. A. V University Indore (M.P.).
- 25- **4th national Conference** and Symposium on Society of Basic and Applied Microbiologists held on 23rd – 24th Dec. 1990 organized by Dungeer College Bikaner (Raj)
- 26- **National Seminar** on Wasteland Ecosystem and its Reclamation held on 11th –14th Dec. 1990 organized by C. M. D. College & BALCO Bilaspur (M.P.).

Workshop, Training, Soft Skills Development Programmes:

1. **National Workshop** on Environmental Engineering and its Management, held on 30 March, 2015, Organized by Ujjain Engineering College, Ujjain (M.P.), India
2. **National Workshop** on Innovation and Intellectual Property Management Strategies for

Industrial Development (IIPMSID-2015), held on 21 March, 2015, Organized by Ujjain Engineering College, Ujjain (M.P.), India

3. **SAKSHAM-IT Champion Training Program** (Microsoft) held on 16th Jan. 2012 to 25th Jan. 2012 (10 days) organized by Sakshat- The National Mission on Education Through ICT (NME-ICT), Microsoft & Institute of Computer Science, Vikram University, Ujjain
4. **National workshop** on new horizons in Biotechnology held on 11th & 12th March 2010 (2 days) organized by School of studies in Zoology & Biotechnology, Vikram University, Ujjain (MP)
5. **International Workshop** on Biotechnology of Anaerobic Bacteria and Archaea held on 3rd - 4th March 2006 (2 days) organized by the MACS-Agharkar Research Institute (ARI), Pune India and Swedish International Development Agency (SIDA), Sweden
6. **Training Program** on Maintenance and Repairing of electronic Laboratory Instruments held on 27th – 31st Jan 2004 (5 days) organized by USIC, Jiwaji University and WRIC, BARC, Mumbai
7. **Workshop** on Basic Techniques in Lab. Diagnosis for Medical Lab Technology Students held on 20th - 22nd Nov 2003 (3 days) organized by Surya Institute of Medical Science Varanasi, UP (Study Center of Allahabad Agriculture Institute.
8. **Training** on ELISA Reader Model HT- II Anthos Automatic held on 29th June 1999 (1 days) organized by Medisource Agencies Pvt. Ltd, New Delhi
9. **International Training** Program for Diagnostic Virology held on 6th to 15th Jan 1997 (10 days) organized by International Working Group on Tropical Virology, CSIRO, Australia and CCS, HAU, Hissar, India

Research Projects

- **Name of Project:** Research Project (Minor) - University Grants Commission (UGC) UGC letter No. 4S-01/2005-06(MRP/CRO) 105003 dated 24th Feb 2006. 2006-2007 “Evaluation of Antifungal Chemotherapeutics from Medicinal Plants” Rs 1,00,000/-. (Completed)

Awards and Distinctions

- 1- **Awarded Post Doctorate fellowship** (Clinical, Pharmacology and Therapeutics) 1991- 92, D.G.H.S., Ministry of Health and Family Welfare, Govt. of India, New Delhi. Letter no U 13011/6/-MEC, dated 18th Sept. 1991
- 2- **Awarded Scholarship for Ph.D. (Microbiology)** 1988-90, D.G.H.S., Ministry of Health and Family Welfare, Govt. of India, New Delhi. Letter no U.13011/2/88-M (F&S) 1989
- 3- **Awarded Junior Research Fellowship (JRF)**, Departmental Research Support Scheme (DRS) Project funded by University Grants Commission, New Delhi, Applied Microbiology & Biotechnology Section, Department of Botany, Dr H S Gaur University, Sagar (MP) Letter no. Ref. no. Bot /154, Dated 12/06/1989

Association with Professional Bodies

Committees and Boards (Academic Bodies)

1. Member, Board of Studies in Applied Microbiology, Jiwaji University Gwalior, (Year 1997-2000, 2000-2003, 2003-2006, 2006-2009).
2. Member, Board of Studies in Microbiology, Vikram University, Ujjain (Year 2010-2013, 2013-2016).
3. Member, Faculty of Life Sciences, Jiwaji University, Gwalior (Year 2000-2002, 2002-2004, 2004 - 2006).
4. Member, Faculty of Life Sciences, Vikram University, Ujjain (Year 2012-2015).
5. Member DRC Committee in Microbiology, Vikram University Ujjain
6. Member, Examinations Committee in Applied Microbiology (Ph D, M Sc & B.Sc. Examination) etc., Jiwaji University, Gwalior (Year 1997-2000, 2000-2003, 2003-2006, 2006-2007,).
7. Member, Examinations Committee in Microbiology, (Ph D, M Sc & B.Sc. Examination) etc., Vikram University, Ujjain (M.P.).
8. Member, New College Development Committee, Jiwaji University Gwalior Nominated by Department of Higher Education, M.P. Govt., Bhopal.
9. Member, Inspection committee for opening for new colleges, Vikram university, Ujjain
10. Member, College Governing Bodies ,Various Colleges affiliated Vikram University, Ujjain (MP)
11. Member (Invitee), College Governing Body, College of Life sciences, Cancer Hospital & Research Institute, Gwalior MP.
12. Member of flying scud for semester examination year 2009-2010, Vikram University Ujjain (M.P.)
13. Assistant Examination Superintendent, Conduct Annual and Semester Exam 2009, Vikram University, Ujjain
14. Assistant Coordinator Conduct Annual and Semester Exam 2011-2012, Vikram University, Vikram University, Ujjain
15. Assistant Coordinator conduct Semester Exam Year 2012-2013 (Suman Manviki Bhawan), 2014-2015, (SOET) Exam Center Vikram University, Ujjain
16. Liaison Officer connected with Jiwaji University (Year 1995-2007).
17. Advisor, for Medical Lab Technology Courses Nominated by Surya Institute of Medical Sciences, Varanasi.
18. Deputy Registrar (Academic)(In charge) Vikram University, Ujjain Date 26th June, 2009 to 12th July 2010
19. Asstt. Registrar (Administration) (In charge) Vikram University, Ujjain Date 07th June, 2010 to 12th Sept 2010.
20. External Expert member- Selection Board for Recruitment of Scientists in Microbiology, Bioinformatics & Molecular Biology by Recruitment & assessment Center, Defence Research & Development Organization (DRDO), Ministry of Defence, Govt of India
21. External Expert member- Selection Board for Recruitment of Teaching post in Microbiology, Biotechnology, Affiliated Colleges (College code 28) under Jiwaji University, Gwalior (M.P.)
22. External Expert member- Selection Board for Recruitment of Teaching post in Microbiology, Affiliated Colleges (College code 28) under Vikram University, Ujjain (M.P.)
23. Moderator, moderation committee in Microbiology, Biotechnology and Biochemistry, Dr H S Gaur University, Rani Durgawati University, Jabalpur (MP).
24. External examiners to evaluate of Ph.D. thesis and conduct viva-voce examinations for number of Universities that include Amravati University, Bundelkhand University, Nagpur University,

Barkattullah University, etc
25. Deputy Director, School of Engineering and Technology, Vikram University, Ujjain dated 1st December 2014 to till.

Memberships of Scientific Bodies

- 1-Life member, Indian Virological Society.
- 2-Life member, Association of Microbiologists of India. (LM 1456 – 2000)
- 3-Life member, Association of Biotechnologists of India (ID# 353, No. LM251).
- 4-Member, Environmental Microbiologists of India, ENVIS, Chennai
- 5-Member, International Society for Infectious Diseases (Membership No. 00045250).
- 6-Member, African Society for Bioinformatics and Computational Biology (ASBCB).
- 7-Member, International Society for Subsurface Microbiology (ISSM)
- 8-Member, European Federation of Biotechnology (EFB)
- 9-Council Member, Garson Lehman Council of Healthcare Advisors
- 10-Member, the Science Advisory Board (SAB),
- 11-Member, Database of Environmental Experts In India: 2007 Ministry of Environment & Forests (MOEF), Government Of India, Paryavaran Bhawan, C.G.O. Complex, Lodhi Road, New Delhi - 110003 Database Prepared By Prof. Y L Nangia, Director, Manpower Management Centre , New Delhi pp 151.
- 12-Member. National Institutes of Health (NIH), U.S. Department of Health and Human Services, Bethesda, Maryland 20892, Medical Microbiology and Pathogenic Bacteriology Interest Group (MMPBIG)
- 13-Subscriber Members, InnoCentive, Inc. 35 New England Business Center, Andover, Massachusetts 01810-1071 USA
- 14-Subscriber member, BioTechniques One Research Drive Suite 400A Westborough, MA 01581
- 15-Subscriber member, Fitoterapia (The Journal for the study of Medicinal plants), ELESEVIER Pub., Italy

Editorial Board/ Reviewer of The Journals:

- Member, Editorial Board, Science Research (Science Publishing Group, International Publisher, NEWYORK, USA)
- Executive Editor, International Journal of Microbiology Research (*Bioinfo Publication*)
- Advisory Member, Editorial Board, International Journal of Microbiology Research (*Bioinfo Publication*)
- Member, ISROSET (International Scientific Research Organization for Science, Engineering and Technology)
- Member, Editorial Board, BIOZONE (International Journal of Life Science)
- Reviewer African Journal of Pharmacy and Pharmacology(AJPP)
- Reviewer African Journal of Infectious Diseases (AJID)
- Reviewer African Journal of Biotechnology
- Reviewer Indian Journal of Microbiology
- Reviewer Infection and Drug Resistance
- Reviewer Indian Journal of Cancer
- Reviewer Journal of Asthma and Allergy
- Reviewer European Journal of Dentistry
- Reviewer Journal of Yeast and Fungal Research (JYFR)

- Reviewer Journal of Plant Biochemistry and Biotechnology (JPBB)
- Reviewer Clinical Reviews and Opinions (CRO)
- Reviewer Cancer (American Cancer Society)

Other Activities

Research Interests:

- During the Doctoral study, I tried to find out causative organism of otomycosis. A detailed physiological study was performed to find out enzymatic and pathogenic capabilities of these microorganisms, doctoral work was focused on evaluation of various organic volatiles against microorganisms. During postdoctoral study, an effort was made to evaluate various medicinal plants and plant products against microorganisms causing otomycosis. Doctoral & postdoctoral work is well cited in various International & National journals of repute
- My present research interests ranges from microbial diversity to medical and soil microbiology, antimicrobial chemotherapy, Medical and Fungal Biotechnology and computational biology. Present research is mainly focused on development of antimicrobial agents against multidrug resistant fungi and bacteria. I am trying to solve enigma of microbial diversity of soil and in normal microflora of human being. Understanding pathogenecity and proper diagnosis of any disease is cardinal to find out effective treatment for any disease. Inability to solve this enigma can jeopardize the life of patients, present research is focused on identification of cancer antigen, pathogenic bacteria and fungi from patients and their antibacterial sensitivity is also noticeable. This contribution in identification of medically important fungi is well cited, by his first reporting of subcutaneous pheohyphomycosis on face caused by *Cladophialophora bantiana* in India.
- Development of new computational programs has increased the speed of biological research. Presently, my attempt is to use bioinformatics programs as well as database to find out relationship among microorganism through genome mining. Presently I am trying to find out enzymatic capability of microorganisms present on heritage sites, so that any effective counteracting substance can be developed to prevent deterioration of these culturally important sites. On the contrary to enzymatic capability of these environmental microorganisms. I am also trying to find out production of L- asparagines by these microorganisms because this enzyme is very effective in treatment of acute lymphoblastic leukemia.
- Besides that, I am working on diversity of microorganism found in diabetic, Gall bladder and dental caries patients because understanding of this diversity can help in finding out potential roles of these microorganisms in disease etiology. I am currently using Bioinformatics resource for oral pathogens (BROP) and Oral pathogen micro-array database (OPMD) to detect diversity of oral pathogens, as well as I am using Genome-wide ORF Alignment (GOAL) to study about the role of bacteria in secondary infections in diabetic patients.

Popular Article :

- “Biological treatment of Cancer”, *Bulletin on Cancer*, Vol-6, October 2001

Delivered Lectures :

- Department of Biotechnology, A. P. S. University, Rewa (MP)
- Department of Microbiology, Holly Cross Women's College, Ambikapur (Surguja) C.G
- Department of Microbiology, Govt. Autonomous Maharaja College, Chhatarpur (MP)
- Department of Microbiology, Amravati. University, Amravati (MS)
- Department of Microbiology and Biotechnology, St. Thomas College, Bhilai (CG)
- Department of Microbiology, Maharaja Mansingh College, Gwalior (MP)
- Department of Microbiology and Biotechnology, Bhilai Mahila College, Bhilai (CG)
- National Seminar on Biodiversity: Assessment Utilization and Conservation held on March, 22-23, 2014 Organized by Maharaja Mansingh College Gwalior sponsored by UGC, CRO, Bhopal M.P.
- National Seminar on Recent Trends in Nanotechnology and Its Application held on April, 13-14, 2014 Organized by Career Point Tehnical Campus, Rajsamand, Rajsthan.

Forthcoming Research :

- Madhya Pradesh state particularly Malwa and Niwar region is rich in microbial diversity as evidenced through several publications.
- Major focuses on microbial assessment for biotechnological potential should be performed.
- Purification and screening of enzymes with varying types of activity can be screened and translated into industrial products.
- This aspect of Microbiology Department in Vikram University gives great opportunity to arrange funding and put efforts to understand microbial diversity of this biotechnologically rich region.

Major Achievement:

- We investigated Subcutaneous phaeohyphomycosis on face caused by *Cladophialophora bantiana*, **first report in India** and made it as a remarkable establishment in medical mycology for cancer patients (*mycoses*, 2003)