

Curriculum Vitae



Dr. ASHISH SARAF

M.Sc. (Microbio.), Ph. D.

Work Address

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Present Address

KBT-212, Phase III, Near Guru Nanak Chowk, Kabir Nagar, Raipur, C.G. 492 002

Permanent Address

528, East Niwarganj, Mahatma Gandhi Ward, Dixitpura, Jabalpur (M.P.) 482 002

Education

1. Ph.D. (Microbiology)

Institution: Mycological Research Laboratory,

Dept. of P.G. Studies in Biological Sciences, R. D. University, Jabalpur

Title: "Antimicrobials from Wild Fungi from Central India."

Research Supervisor and Advisor: Prof. Akhilesh Kumar Pandey

Award Date: July, 2008.

2. M. Sc. (Microbiology)

Institution: Dept. of P.G. Studies in Biological Sciences, R. D. University, Jabalpur

Award Date: June 2002.

3. B.Sc. (Microbiology)

Institution: N.E.S. Science College, Jabalpur.

Award Date: May, 2000.

Research activities

Good hand on Water Analysis, Nutraceuticals and Nutriceuticals from Fungi, Antimicrobials from Fungi, Exploitation of Secondary Metabolites for Pharmaceutical Uses, Bio-synthesis of Nanoparticles.

Total Experience: Industrial Experience: 2.5 years

Teaching Experience: Adhoc-3years, Regular- 11 years

Professional Experiences: (Employment Record)

Designation	Name & address of employee	Period		Job Description
		From	To	
Microbiologist	Shri Sai Aqua Minerals, BIS-certified	20 th Nov-2002	24 th Dec-2003	Microbiological examination of water
Quality controller	Shri Sai Aqua Minerals, BIS-certified	25 th Dec-2003	30 th June-2004	Responsible for quality of product and sanitary condition of plant
Lecturer	Hitkarni Arts, Commerce & Science, College, Deotal, Jabalpur	July-2006	June-2009	Taught Microbiology to Graduates students
Asst. Prof.	Dept. of Microbio. & Biotech, M.G. Womens' College, Jabalpur	1 st July-2009	30 th June-2010	Taught Microbiology to Post Graduates students
Medical Microbiologist & Quality Manager	Anant Institute of Medical Sciences, Jabalpur	2 nd Feb.-2010	30 th July-2010	Responsible for Microbial Examination of Medical Sample and Quality Management (NABL, ISO: 15189)
Associate Professor & Head	School of Sciences, MATS University, Raipur	2 nd Aug-2010	Till date	Taught Microbiology, Immunology Medical Microbiology to Post Graduates students

Techniques Known: PCR, DNA Electrophoresis, SDS-PAGE (Electrophoresis), Gel Permeation Chromatography, Ion Exchange Chromatography, Dialysis, Fermentation

Instruments Handled: HPLC, Fermentor. (Scigenics, India), Lyophilizer (Model: 80MP VAM), Ultrasonicator, Spectrophotometer

Awards & Honors

1. First prize in oral presentation in Micro-Tech, Junior Scientist Award Contest, 2004.
2. Second prize in oral presentation in National Science Day Celebration Week, sponsored by M.P.C.S.T., Bhopal, 2008

Seminars, Conferences and Workshop Attended:

1. Participated in e-Referesh Course on 21st Century The Era of Biotechnology organized by Department of Biotechnology. AKS University, Satna, M.P. 3rd September-28th October, 2020.
2. Participated in National Workshop on “Commercial Production of Biofertilizers and Biopesticides using *Bacillus thuringiensis* and *Rhodobacter sphaeroides*” organized by Department of Microbiology, Bhilai Mahila Mahavidyalaya, Bhilai in collaboration with NTHRYS Biotech Lab., Hyderabad, Telangana, 17th to 23rd January, 2020.
3. Participated in 13th International Samata Sahitya Conference on “Indo-Dubai Friendship International Award Ceremony” Dubai, UAE, 26th December, 2019
4. Participated in National Workshop on "Trends in Solid Waste Management and Biology: Approaches to a Serene World” organized by Shri Shankaracharya Mahavidyalaya, Junwani–Bhilai, C.G., 03rd to 09th December, 2019
5. Participated in National Symposium on Immune Dysregulation and Autoimmunity & Hands–on Workshop on Flow Cytometry organized by Department of Biochemistry, AIIMS, Raipur, C.G., 10th December, 2019
6. Participated in UGC-SAP (DRS-II) 3rd National Conference on Advances in Environmental & Chemical Sciences organized by SoS in Chemistry, Pt. R.S. University, Raipur and sponsored by UGC, New Delhi, 27th to 28th March, 2019
7. Participated in National Workshop on “Enzymology and its Applications (Isolation, Purification and Immobilization of Enzymes-Amylases and Lipase) from Various Sources” organized by Department of Biotechnology and Microbiology, Bhilai Mahila Mahavidyalaya, Bhilai in collaboration with niTza Bioventure Pvt. Ltd., Secundrabad, Telangana, 12th to 18th January, 2018.

8. Participated in National Workshop on “Plant Molecular Techniques & Phyto-Chemistry” organized by Department of Biotechnology, S.S.S.S. Mahavidyalaya, Hudco, Bhilai, C.G., 6th to 12th January, 2018.
9. Presented a paper in International Conference on Innovative Trends in Engineering, Science and Management (ITESM) on “Study and Characterization of Antioxidant and Anticancer Properties of *Moringa Oleifera*- Indian Specie” organized by MSEIT and sponsored by CGCOST, Raipur, and 10th-11th November, 2017.
10. Participated in 9th International Conference on “Science, Technology and Management” organized by Indian Federation of United Nation Association, Qutab Institution Area, New Delhi, 14th October, 2017.
11. Participated in Faculty Development Programme on “ICT uses in Education for better Teaching and Learning” organized by MATS School of Information Technology, MATS University, Raipur, C.G., 11th to 15th September, 2017.
12. Participated in Hands on Workshop on “Discovery of Potential Bioactive Compounds from Local Botanical Resources- Invitro Studies to Drug Designing” organized by School of Biological and Chemical Sciences, MATS University, Raipur (C.G.) in collaboration with niTza Bioventure, Hyderabad (T.G.), 28th -31st August, 2017.
13. Participated in National CME on “Stem Cell & It’s Application” organized by Department of Anatomy, Raipur Institute of Medical Sciences, Raipur (C.G.), 12th April, 2017.
14. Participated in National Conference on “Impact of Global Warming on Biodiversity and its Conservation: Present Status and Future Strategy” organized by Department of Botany, NSCB Govt. Girls College, Seoni, 6th-7th March, 2017.
15. Participated in National Workshop on “Global Health Challenges of Fungal Disease, Diagnosis and its Applications: An Emerging Issue of life Science” organized by Department of Botany, NSCB Govt. Girls College, Seoni, 27th-28th Feb., 2017.
16. Presented a research paper in National Seminar on “Advance Technique in Medical Microbiology (ATMM 2016)” organized by Department of Microbiology, Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai, 8th-9th Sep., 2016.
17. Participated in National Seminar on “Bridging Gap between Academic and Pharmaceutical Industries” organized by Columbia Institute of Pharmacy and sponsored by CGCST, Raipur, 5th-6th March, 2016.

18. Participated in National Seminar on “Environmental Problems and Sustainable Development: Issues and Challenges” organized by Department of Botany Govt. Rajeev Lochan College Rajim, and sponsored by UGC, C.R.O. Bhopal, 19th-20th Jan., 2016
19. Paper presentation on “Antimicrobial Activity of Biologically Synthesized Silver Nanoparticals from Mushroom Mycelia” in “Interdisciplinary International Seminar” organized by Swami Shri Swaroopanand Saraswati Mahavidyalya Hudco Bhilai, C.G. 22nd-24th September, 2015.
20. Participated in International Conference on “Translational Medicine in 21st Century “Stem Transplantation: Current Status” Organized by Barkatullah University, Bhopal 11th-14th April, 2015.
21. Presented a research paper in International Conference on “Status of Science & Technology in Chhattisgarh State”, organized by Bhilai Institute of Technology, Durg, 19th-20th March, 2015.
22. Oral presentation in International Conference on Nanotoxicology, 2015 “ICNanotox-2015” organized by Srinivasa Ramanujan Centre, Sastra University, Kumbakonam, 13th-14th Feb., 2015
23. Participated in National CME on “Biochemical Insight into Clinical Immunology & 1st Ambicon Chhattisgarh State Chapter” organized by Department of Biochemistry AIIMS, Raipur, 21st-22nd March, 2014.
24. Participated in International Conference on “Emerging Challenges and Issues in Environmental Protection” organized by Raipur Institute of Technology, Raipur, 23rd-24th Jan., 2014.
25. Participated in Workshop on “Instrumentation and Bio-techniques” Organized by Department of Zoology, Govt. D.B. Girls’ P.G. Autonomous College, Raipur, 9th-14th Sept.-2013.
26. Participated in Symposium on “Role of Bioinformatics in Medicine” Organized by Department of Biochemistry, Pt. J.N.M. Medical College, Raipur, 25th July 2013.
27. Participated in Workshop on “Training of Course Writer for Self Learning Material Development” Organized by MATS Institute of Open & Distance Learning, Raipur, 25th-27th Jan.-2013

28. Paper presentation on “Antioxidant Activity of *Agaricus bisporus* Indigenous from Jabalpur” in “National Conference on Conservation of Biodiversity in India, Some Issue” Organized by Arts and Commerce Girls College, Raipur, 16th-17th Oct., 2012.
29. Oral presentation on “Antimicrobial Activity of Mushrooms” in “National Conference on Development Exploitation of Microbial System for Mankind” Organized by Department of Microbiology, M.G. Women’s College, Jabalpur, 27th-28th April 2012. (Invited)
30. Participated in the National in Workshop on “Enzymology (Enzyme Rennet & Bromelien) and its Impact in Industries” Organized by niTza Biological Hyderabad in support of MATS University, Raipur, 23rd-26th Feb., 2012.
31. Oral presentation on “Antitumor and Immunomodulating Properties of *Ganoderma lucidum*” in “National Conference on Emerging Trends in Science Technology and Management”. Organized by Kruti Institute of Technology and Engineering, Raipur, 4th Feb., 2012
32. Oral presentation on “Antifungal Activity of Silver Nano-particles along with *Ganoderma* Extracts” Organized by Society for Basic and Applied Mycology (SBAM), Department of Biological Sciences, R. D. University, Jabalpur (M.P.), 11th Sept.-2010.
33. Participated in the Training Course entitled “Laboratory Quality Management System & Internal Audit as per ISO 15189 for Clinical Laboratory Training Course” Organized by Indian Institute of Quality Management, MCIT, Govt. of India, Jaipur, 27th-30th April 2010.
34. Participated in the workshop entitled “E-Learning for Effective Teaching” Sponsored by U.G.C., Organized by Academic Staff College, R.D. University, Jabalpur, 16th-18th Feb.-2010.
35. Delivered lecture on "Antibacterial Activity of Some Wild Mushrooms from Madhya Pradesh" in "National Seminar on Current Trends in the Field of Biodiversity and Sustainable use of Natural Resources". Organized by Post Graduate Department of Botany, M.G.Womens' College, Jabalpur, 16-17th Nov.-2009
36. Oral presentation on “Antimicrobial from Wild Fungi” in "National Seminar on Microbiology-Opportunities, Challenges and Skills” Sponsored by U.G.C., C.R.O., Bhopal (M.P.) and Organized by Department of Botany, D.N. Jain College, Jabalpur, 20th-21st Feb.-2009.

37. Oral presentation on “Antimicrobial from Wild Mushroom of Central India with Special Reference to *Pleurotus sajor caju* & *P. florida*” Sponsored by M.P.C.S.T., Bhopal, Organized R. D. University, Jabalpur (M.P.), 23th-28th Feb.-2008.
38. Oral presentation on “Antimicrobial from Wild Mushroom of Central India with Special Reference to *Pleurotus sajor-caju*” Organized by Society for Basic and Applied Mycology (SBAM), Department of Biological Sciences, R. D. University, Jabalpur (M.P.), 19th Nov.2007.
39. Participated in Training Course on “Taxonomy and Biotechnological Application of Fungi” Organized by Mycological Research Laboratory, Department of Biological Sciences, R.D. University, Jabalpur, 20th-25th August 2007.
40. Participated in the workshop entitled “Biotechnology: Challenges and Possibilities” Organized by Department of Science and Technology (Middle & Higher Education Board), Ram Krishnapuram, New Delhi, 10th-12th July 2007.
41. Participated in National Symposium on “Emerging Trends of Bio-Inoculants in Forestry” Organized by Tropical Forest Research Institute, Jabalpur, 26th-27th April 2007
42. Oral presentation on “Antimicrobial Activity of the seed extract of *Tephrosia purpurea*” in “National Symposium on ‘Plant Pathogens: Exploitation & Management’ and 59th Annual Meeting of Indian Phytopathological Society” Organized by Department of P.G. Study in Biological Sciences, R. D. University Jabalpur, 16th -17th Jan, 2007.
43. Oral presentation on “Antimicrobial Activity of Some Selected Wild Mushrooms” in “Micro-tech 2005, Junior Scientist Award”, organized by Society for Basic and Applied mycology (SBAM), Department of P.G. Study in Biological Sciences, R. D. university, Jabalpur (M.P.), 19th Nov, 2005.
44. Paper presentation on “Medicinal Wealth of Mushrooms: An overview” in National Seminar on “New Horizons in Life Sciences” Organized by Govt. P. G. College, Narsinghpur, 2nd -3rd Sept., 2005.
45. Oral presentation on “Effect of graded conc. of salt and pH of the survival of Cyanobacterial Isolate *Anabaena variabilis*” in National Symposium on “Microbial Diversity: Opportunities and Challenges” Organized by Society for Basic and Applied Mycology (SBAM), Department of P.G. Study in Biological Sciences, R. D. University, Jabalpur (M.P.), 19th - 21st Nov., 2004.

46. Oral presentation on “Antimicrobial Action of Alcoholic Fraction from Culture Medium of *Lentinus cladopus* Mycelium” in Micro- Tech 2004, Junior Scientist Award Contest Organized by Society for Basic and Applied Mycology (SBAM), Department of P.G. Study in Biological Sciences, R. D. University, Jabalpur 19th -21st Nov, 2004.
47. Oral presentation on “Antibiotic Fermentation with Special Reference to Penicillin” in Micro- Tech 2002, Junior Scientist Award Organized by Society for Basic and Applied Mycology (SBAM), Department of P.G. Study in Biological Sciences, R. D. university, Jabalpur (M.P.): 11th Jan, 2003.
48. Participated in the National Symposium on “Contemporary trends in Biological Science” Department of Biological Sciences, R. D. University, Jabalpur, 9-11th Jan., 2002.

Publications:

1. **Saraf, A. and A. K. Pandey (2006).** Proximate Analysis of Some Wild Mushrooms of Jabalpur Region. *J. Basic Appl. Mycol.* 5(1): 34-37. **ISSN: 0972-7167**
2. **Saraf, A., Khan, N.A., Pandey, A.K. and A. Srivastava (2009).** Antimicrobial activity of *Ocimum sanctum* (Tulsi). *J. Basic. Appl. Mycol.* 8(2): 39- 44. **ISSN: 0972-7167**
3. Rai, S. and **A. Saraf (2009).** Antifungal activity of some selected medicinal Plants. *J. Basic. Appl. Mycol.* 8(2): 62-65. **ISSN: 0972-7167**
4. Chakraborty, M., Chattopadhyay S. and **A. Saraf (2010).** Role of *ZBFI* gene in light signaling in *Arabidopsis thaliana*. *Electronic Journal of Agriculture and Food Chemistry*, 9(10): 31-33. **ISSN: 1579-4377**
5. **Saraf, A., Mishra M. S. and K. Sharma (2011).** Antibacterial activity of commercial and wild cinnamon species. *Journal of Phytology*, **3(2):** 102-106. **ISSN: 2075-6240**
6. Oureshi, S., Purwar, P., Singh, R., **Saraf, A.,** Mani, A. and J. Patel **(2011).** Studies on Essential Oils and DNA Extraction from *Ocimum* species. *Journal of Phytology*, **3(8):** 23-27. **ISSN: 2075-6240**
7. Sapna, R., **Saraf A.,** Padhe S. and K. Sharma **(2011).** Trends in antifungal susceptibility among clinical isolates of *candida* spp. resistant to antifungals and natural products. *Journal of Ecobiotechnology*, **3(4):** 03-05. **ISSN: 2077-0464**
8. **Saraf, A.,** Qureshi, S., Sharma, K. and N. Afshan **(2011).** Antimicrobial activity of *Lantana camera* L. *Journal of Experimental Sciences*, **2(10):** 50-54. **ISSN: 2218-1768**
9. **Mishra, M., Sharma, K. and A. Saraf (2011).** Production, Recovery and Identification of Organic Acid from Kitchen Waste. A Biotechnological Approach. *Int. Conf. Inn. Sci. & Eng. Tech.* pp. 17-176. ISBN: 978-81-906377-9-4.
10. Shukla, A., Shit, S., Gupta, S., Shukla, K.K. and **A. Saraf (2012).** Medicinal Plant and their Phytochemicals Responding Antibacterial Properties. *Journal of Ecobiotechnology*, **4(2):** 116-118. **ISSN: 2077-0464**
11. Mishra, M., Chatterjee, T., Dhorbha, S., **Saraf, A.** and V.P. Roy **(2012).** Isolation and Biochemical Characterization of Bacteria from Vegetable Waste. *Journal of Ecobiotechnology*, **4(2):** 124-126. **ISSN: 2077-0464**

12. Chatterjee, T., Mishra, M., **Saraf, A.**, Singh, V., Pall, M., Shrivastava, A and S. Dhorbha (2012). Utilization of Domestic Waste Water Treatment Sludge as a Fertilizer for Non-Edible Plants and Ornamental Plants. *Journal of Ecobiotechnology*, **4(2)**: 148-150. **ISSN: 2077-0464**
13. Panjwani, R., **Saraf, A.** and A.K. Pandey (2012). Antioxidant Activity of *Agaricus bisporus* Indigenous from Jabalpur. *Journal of Ecobiotechnology*, **4(2)**: 228-230. **ISSN: 2077-0464**
14. **Saraf, A.**, Dubey, S. and K. Sharma (2013). Screening and Optimization of Physicochemical Conditions for Protease Production. *SCHOLARS WORLD-IRMJCR*, **3(1)**: 24-30. **ISSN: 2320-3145**
15. Sapna, R., Tripathi, P. and **A. Saraf** (2013). Isolation and characterization of opportunistic fungi causing secondary infection in debilitated patients. *Recent Research in Science and Technology*, **5(3)**: 32-35. **ISSN: 2076-5061**
16. Sapna, R., **Saraf, A.** and K. Sharma (2014). Study of Keratin Degradation by Some Potential Fungal Isolates from Soil. *Indian Journal of Applied Research*, **4(8)**: 1-3. **ISSN: 2249-555X**
17. Panjwani, R., **Saraf, A.** and A.K. Pandey (2015). Antioxidant Properties of *Pleurotus florida*: An Edible Oyster Mushroom in M.P. *World Journal of Pharmacy and Pharmaceutical Sciences*, **5(1)**: 1383-1392 **ISSN: 2278-4357**
18. Sharma, D., **Saraf, A.**, Shukla, K.K. and V.P. Roy (2016). Study of Physicochemical Parameters for Extracellular Protease Production by *Fusarium oxysporum*. *World Journal of Pharmacy and Pharmaceutical Sciences*, **5(2)**: 1043-1054. **ISSN: 2278-4357**
19. Sharma, S. and **A. Saraf** (2016). Biodiversity of Fungal Population in Four Distinct Regions of Shivnath River. *International Journal of Advanced Research*. **4(8)**: 630-633. **ISSN: 2320-5407 IF 6.869**
20. Sharma, D., Panda, S.R. and **A. Saraf** (2016). Screening of Phage Display Recombinant Antibodies against Nucleoprotein antigen of Avian Influenza from Periplasmic Extract and Media supernatant of cultured TG1 and HB2151 cells. *International Journal of Chemical and Pharmaceutical Review and Research*. **4(1)**: 1-4. **ISSN: 2395-3306**
21. Sharma, S. and **A. Saraf** (2016). Ecological Studies of Soil Fungi in Mehmara, Chhatagr, Kotani, and Rajnandgaon Road in Shivnath River, Durg Chhattisgarh. *International Journal of Innovative Research in Science, Engineering and Technology*. **5(10)**: 17727-17732. **ISSN: 2319-8753**, Impact Factor: 6.209

22. Vaishnav, S., Sharma, D. and A. Saraf (2017). Estimation of Water Quality Physicochemical and Biological Parameter of Shivnath River in Durg District (Chhattisgarh). *International Journal of Engineering Sciences & Research Technology*. 6(3): 288-293 **ISSN: 2277-9655**
23. Shrivastava, M., Saraf, A., Shukla, K.K. and D. Sharma (2017). Isolation of Bioactive Metabolites Producing Fungal Strains from Milk Products and Milk Industries of Raipur District. *World Journal of Pharmacy and Pharmaceutical Sciences*, 6(9): 1652-1658. **ISSN: 2278-4357**
24. Sharma, D., Roy, V.P. and A. Saraf (2017). An Update on Phytochemicals Analysis and Medicinal Prospects of Indian Herb *Withania somnifera*. *Ambient Science*, 4(2): 1-6. **ISSN:2348-8980**
25. Sohal, J.K., Saraf, A. and K.K. Shukla (2017). Green Synthesis of Silver Nanoparticles (Ag-NPs) Using Plant Extract for Antimicrobial and Antioxidant Applications: A Review. *International Journal of Advance Research in Science and Engineering*, 6(10): 766-777. **ISSN: 2319-8354**
26. Tiwari, M. and A. Saraf (2017). Isolation, Screening and Identification of Hydrocarbon Degrading Potential of Indigenous Fungus from Oil Contaminated Soil of Modha Para Automobile Shop of Raipur, C.G. *International Journal of Advance Research in Science and Engineering*, 6(10): 782-795. **ISSN: 2319-8354**
27. Shrivastava, M., Tiwari, M. and A. Saraf (2017). Pigment Extraction Methods from Fungi for Industrial Applications: A Review. *International Journal of Advance Research in Science and Engineering*, 6(10): 875-881. **ISSN: 2319-8354**
28. Jha, P., Saraf, A., Rath, D. and D. Sharma (2017). Green Synthesis and Antimicrobial Property of Gold Nanoparticles: A Review. *World Journal of Pharmaceutical and Medical Research*, 3 (8): 431-435. **ISSN: 2455-3301**
29. Choubey, E., Saraf, A. and A. K. Dutta (2018). Review Article on Moringa Oleifera: As Traditional Medicinal Plant. *World Journal of Pharmacy and Pharmaceutical Sciences*, 7(5): 1710-1718. **ISSN:2278-4357**
30. Roy, V., Biswas, J. and A. Saraf (2018). Comparative Evaluation on Lipid Profile between Diabetic and Nondiabetic Patients, Signaling some Common Physiological Complications Intended towards Diabetes: A Case Study from Raipur, C.G., India. *Ambient Science*, 5(1): 60-67. **ISSN:2348-8980**

31. Roy, V., Biswas, J. and **A. Saraf** (2018). Study of Liver Function Parameters in Diabetic Patients from Raipur Region. *IOSR Journal of Pharmacy*, 8(10): 18-21. **ISSN:** (e)-2250-3013, (p)-ISSN: 2319-4219.
32. Sharma, S., Parkhey, S., **Saraf, A.** and B. Pandey (2018). Production of Citric Acid from Different Agricultural Waste using *Aspergillus niger*. *Indian J. Sci. Res.* 09 (1): 75-81.
33. Shrivastava, M. and **A. Saraf** (2019). Antimicrobial Activity of Bioactive Molecules Isolated from Filamentous Fungi. *International Research Journal of Biological Science*, **8(3)**: 1-6.
34. Vaishnav, S., Sharma, D. and **A. Saraf** (2019). Gel Electrophoresis and DNA Sequencing Of Salmonella Bacterial Culture Isolated From Water Samples of Shivnath River. *Patliputra Journal of Indology*, 6(1): 1-4.
35. Yadav, K.C., Sarkar, A.K. and **A. Saraf** (2019). Study of Important Ethno-medicinal Plants in Sacred Groves of Borhamdev Wildlife Sanctuary of Kabirdham District. *IOSR Journal of Pharmacy*, 9(2): 72-78.
36. Sohal, J.K., **Saraf, A.**, Shukla, K.K. and M. Shrivastava (2019). Determination of antioxidant potential of biochemically synthesized silver nanoparticles using *Aloe vera* gel extract. *Plant Science Today*, **6(2)**: 208-217.
37. Das, S., **Saraf, A.**, Sharma, D., Raja, W. and J. K. Sohal (2019). Qualitative Screening of Bioactive Secondary Metabolites Present in *Withania somnifera* and *Rauwolfia serpentina* Root and Stem Extracts with Pharmacological Importance. *Int. J. Res. Anal. Rev.*, **6(2)**: 68-74. 5.75
38. Choubey, E., Warthe, N., Saraf, A. and W. Raja (2019). Evaluation of in-vitro Free Radical Scavenging Activity of *Moringa oleifera* Leaf Extract using Fenton Reaction. *World Journal of Pharmaceutical and Life Sciences*, 5(12): 121-124.
39. Vaishnav, S., Sharma, D. and **A. Saraf** (2019). Determination of Presence of Pathogenic Contamination in Shivnath River in Durg District of Chhattisgarh: With Reference to Salmonella Serovars. *Anusandhan Vatika*, 6(1): 91-96.
40. Deshpande, B., Mundeja, P. and **A. Saraf** (2019). Study of Effect of some Chemical Pesticides on Micro-organisms Isolated from Soil. *Int. J. Res. Anal. Rev.*, 6(2): 788-791. 5.75
41. Shrivastava A., **Saraf, A.** and A. K. Sarkar (2019). Production of Xylanase Enzyme by *A. minisclerotigenesis* by Solid State Fermentation (Ssf). *Int. J. Res. Anal. Rev.* 6(2): 301-310.

42. Sohal, J.K., **Saraf, A.** and K.K. Shukla (2019). Antimicrobial Activity of Biochemically Synthesized Silver Nano-particles Using *Aloe vera* Gel Extract. *The Pharma Innovation International Journal*. 8 (12): 376-382.
43. Tiwari, M. and **A. Saraf** (2020). Comparative in-vitro Assessment of Hydrocarbon Degradation Potential of *Pleurotus ostreatus* MP5 and *Pleurotus ostreatus* MTCC 1804. *Nat. Env. Poll. Tech.*, 19(1): 41-56
44. Das, S., **Saraf, A.**, Sharma, D., Raja, W. and J.K. Sohal (2020). Study of Antibacterial Activity of *Withania somnifera* Plant Extract against Some Human Pathogenic Bacteria. *Int. J. Sci. Res.*, 9(6): 1506-1510.
45. Das S., Saraf A., Sharma, D., Sarkar, A.K. and W. Raja (2020). Study of Phytochemical Analysis of *Withania somnifera* and *Rauwolfia serpentina* plant extract. *Int. J. of Herb. Med.*, 8(4): 01-04.
46. Vaishnav. S., Roy, V. and A. Saraf (2020). Estimation of Water Quality Parameters of Shivnath River in Rajnandgaon District, Chhattisgarh, India. *IJCRT*, 8(11): 1668-1673.
47. Chandraker, J., **Saraf, A.** and Chandraker, S. and K. Dubey (2020). A Comparative Study of Phenotypic Methods for Detection of Extended Spectrum Beta Lactamases. *Int. J. of Res. Anal. Rev.*, 7(4): 483-488.
48. Sharma, S., Parkhey, S., Saraf, A. and S. Das (2020). Citric Acid Production from Waste Substrate by Using Some Fungi. *Journal of Advances in Microbiology*, 20(12): 34-56.
49. Jha, P., Saraf, A. and J.K. Sohal (2021). Antimicrobial Activity of Biologically synthesized Gold Nanoparticles from Wild Mushroom *Cantharellus* species. *Journal of Scientific Research*, 65(3):78-83. (0447-9483 Print)
50. Chandraker, J., **Saraf, A.** and Chandraker, S. and K. Dubey (2021). Isolation of Metallo Beta Lactamases from Clinical Sample (MBL). *Journal of Advances in Microbiology*, 21(2): 68-73. ISSN: 2456-7116
51. **Saraf, A.**, Shrivastava, M. and K. K. Shukla (2021). Structure Based Screening of Fungal Bioactive Metabolites as Potential Inhibitors and Active Pro Drug Molecule for Various Target Proteins of SARS-CoV-2. Springer Nature (**Accepted**).
52. Jha, P., Saraf, A., Rath, D. and J.K. Sohal (2021). Green Synthesis of Copper Nanoparticles Using Edible Mushroom *Cantharellus* Species and Its Antimicrobial Potential. *Turkish Online Journal of Qualitative Inquiry*, 12(8): 2952-2959.

53. Dhabadkar, K., **Saraf, A.**, Sharma, K. and A. Dubey (2021). Biomedical Potential of Gynandropis pentaphylla Leaves Indigenous from Chhattisgarh India. *Turkish Online Journal of Qualitative Inquiry*, 12(9): 744-754.
54. Dhabadkar, F., **Saraf, A.**, Sharma, K. and K.K. Shukla (2021). Screening and Systematic Evaluation of Active Phytochemical Constituent of Cyanobacterial Isolates. *Turkish Online Journal of Qualitative Inquiry*, 12(10): 1855-1866.
55. Chandraker, J. and **A. Saraf** (2021). Detection of Extended Spectrum Beta Lactamases from Clinical Samples. *Turkish Online Journal of Qualitative Inquiry*, 12(10): 4091-4098.
56. Sahu, V. and **A. Saraf** (2022). Effect of Gayatri Yagya on Seed Germination and Seedling development of Trigonella foenum-graecum. *Ambient Science*, 09(2): 16-19.
57. Kumar, J., Roy, V., Mishra, M. C., and **A. Saraf** (2022). Estimation of serum electrolytes in type-II diabetic patients in Durg District Chhattisgarh, India. *International Journal of Health Sciences*, 6(S3), 10127–10137. (<https://doi.org/10.53730/ijhs.v6nS3.8507>) (ISSN 2550-6978 E-ISSN 2550-696X)
58. Pandey, P.C., Deshpande, B. and **A. Saraf** (2023). Studies of biodiversity and Ethanobotanical Values of Medicinal Herbs at Dhamtari Forest. *European Journal of Molecular & Clinical Medicine*, 10(1): 3383- 3389.
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Book Chapters:

1. Dabhadker, F., **Saraf, A.**, Sharma, K. (2021). Study of Growth optimization of Cyanobacterial Strains (Order Nostocales, Chorococcales, Oscillatoriales) Using Different Media Formulations. K. Sharma & R. Sharma (Ed.) PHENOMENON IN ENVIRONMENTAL AND NANO SCIENCE. Jaya Publishing House, Delhi, India, pp. 221-226.
2. Dabhadker, K., Sharma, K., **Saraf, A.** (2021). Study of the Antimicrobial Potential and Phytochemical Screening of Solvent Extracts of *Hyptis suaveolens*. K. Sharma & R. Sharma (Ed.) PHENOMENON IN ENVIRONMENTAL AND NANO SCIENCE. Jaya Publishing House, Delhi, India, pp. 171-178.
3. Sohal, J.K., **Saraf, A.**, Shukla, K.K. (2021). Silver Nanoparticles (AgNPs): Methods of Synthesis, Mechanism of Antimicrobial Action and Applications. S. Fedorov (Ed.)

RESEARCH TRENDS IN MULTIDISCIPLINARY RESEARCH AND DEVELOPMENT.
Weser Books Publication, Zittau, Germany, pp. 55-71.

4. Sohal, J.K., **Saraf, A.**, Shukla, K.K. (2021). Ethylene: Biosynthesis and Regulatory Mechanisms in Plants. PLANT GROWTH REGULATORS FOR CLIMATE-SMART AGRICULTURE” Apple Academic Press (CRS Press, Taylor & Francis Group). (In press).

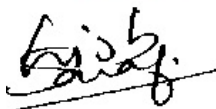
- 5 Research articles and 3 Book (1. Immunology 2. Antioxidants Metabolites 3. Nutritional Properties of Wild Fungi) are in process to publish.

Personal Details

Father’s Name : Mr. Suresh Saraf
Mother’s Name : Mrs. Madhu Saraf
Date of Birth : 29.11.1977
Nationality : Indian
Languages known: English & Hindi

ACKNOWLEDGEMENT

I, hereby declare that the information given above is true to my knowledge. All the Credentials and testimonials will be submitted as and when needed.



Dr. Ashish Saraf
Date: 20-01-2022
Place: Raipur

Reference

Dr. Akhilesh kumar Pandey
Vice Chancellor
Vikram University, Ujjain and Sanskrit University, Ujjain, M.P.
Former Chairman, MPPURC, M.P. Govt. Bhopal
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Dr. Kamlesh Kumar Shukla
Assistant Professor
SoS in Biotechnology
Pt. Ravi Shankar Shukla University, Raipur, C.G.
Mob: 94062-55501

PROJECTS

- **Two major projects submitted (One in NMPB and Second in DBT)**
 - **DBT Project:** “Development of low-cost technology for ethanol and soft drink production from Bastar beer "Sulfi"(*Caryota urens*)” project cost- Rs. **45,77,050 (Current Status:** Project will discuss in next ISC meeting of DBT, proposed in December, 2020).
 - **NMPB Project:** Isolation and Characterization of Phytochemicals and Assessment of presence of potential Biomarkers by Transcriptome sequencing in some medicinally important plants from Chhattisgarh region with special references to *Withania somnifera* and *Rauvolfia serpentine*. project cost- Rs. **25,00,000 (Current Status:** Project sent to reviewer committee for opinion).
- **One minor project submitted in CGCOST, Raipur, C.G.**
 - Control of Fusarium Wilt by Use of Some Medical Plant Extract with Special Reference to *Lantana camera*.
Project cost- Rs. **5,00,000 (Current Status:** Expert committee constituted project under consideration)
- **One project submitted in SFRTI, Raipur, C.G.**
 - Studies on Flora and Fauna of Reserve Area of SFTRI
Project cost- Rs. **14,90,000 (Current Status:** Got clearance from expert committee, ToR, and financial emolument has been discussed)

ADDITIONAL RESPONSIBILITIES/ DUTIES/ JOBS ASSIGNED

- Head & Dean, School of Sciences, MATS University, Raipur, C.G.
- Dean School of Fashion Designing, MATS University, Raipur and MATS College, University Campus, Aarang, C.G.
- **OSD Ph.D.** Cell, MATS University, Raipur, C.G. (From Feb., 2014 to Sept.2019)
- **Ph.D. course work coordinator**, School of Sciences, MATS University, Raipur. C.G.
- Chairman Board of Study, School of Sciences, MATS University, Raipur. C.G.
- Member Academic Council, MATS University, Raipur. C.G.
- Designed the Curriculum and Matrix as per CBCS pattern for both Under Graduate and Post Graduate courses. (Modified syllabus of Under Graduate courses as per NEP-2020)
- Secretary, Discipline Committee MATS University, Raipur. C.G.
- Member Student Grievance and Redressal Committee, MATS University, Raipur. C.G.
- Chairman, Staff Council, School of Sciences, MATS University, Raipur.
- Member IQAC Committee, MATS University, Raipur.
- NAAC Criteria-1 Honor (2015-2018), Criteria-6 Honor (2018 till date).

RESEARCH SUPERVISOR

Ph. D. Degree Awarded

1. **Shivani Sharma (DRC 30/10/2010)**. Studies of Geo-fungal biodiversity of Shivrath river near Durg Chhattisgarh. (22/12/2017). Supervisor
2. **Krishna Chandra Yadav (31/08/2016)**. A Study on Ecological and Ethnobotanical Perspective of Sacred Groves in Satpura-Maikal Landscape of Kabirdham Distric in Chhattisgarh State. **Co-Supervisor**
3. **Jasmeet Kaur Sohal (11/03/2016)**. Antimicrobial and *In-vitro* Antioxidant Activity of Biochemically Synthesized Silver Nano-particles Using *Aloe vera* Gel Extract. (19/12/2019). Supervisor
4. **Akrati Shrivastava (DRC 13/3/2015)**. Biotechnological Exploitation of Industrially Important Xylanase from Fungi of Raipur. (20/12/2019). Supervisor
5. **Meghna Srivastava (DRC 23/12/2015)**. Isolation and Characterization of Antibiotic/Bioactive Metabolites Isolated from Filamentous Fungi under the Influence of Milk Products with Special Reference to *Aspergillus* and *Penicillium* (June, 2020). Supervisor
6. **Sachin Kumar Das (7/11/2016)**. Antimicrobial and *In-vitro* Antioxidant Activity of *Withania somnifera* (L.) and *Rauwolfia serpentine* (L.). Supervisor
7. **Shradha Vaishnav (23/02/2015)**. Study of Microbial Diversity of Water of Shivrath River with Special Reference to *Salmonella* spp. and its Phenotypic Analysis. **Co-Supervisor**
8. **Kanika Dabhadkar (23/9/2017)**. Molecular Characterization, Gene Analysis and Phytochemical Analyses of *Hyptis suaveolens* and *Gyanandropis pentaphylla*. Supervisor
9. **Fuhar Dabhadkar (23/9/2017)**. Studies on the Significance of Cyanobacteria (Nostocales, Chorococcales) and Its Metabolites in Neutraceutical Applications Isolated from Bilaspur District. Supervisor
10. **Madhavi Tiwari (11/03/2016)**. Biodegradation of Oil and Petroleum Products by Enzyme Produced by Fungi (Thesis Awarded 28-07-2022)
11. **Jashmi Chandrakar (14/06/2016)**. Prevalence of ESBL in Enterobacteriaceae Member Isolated from UTIS (submitted).
12. **Prakash Chand Pandey (1/09/2019)**.

Ph. D. Pursuing (Registered)

1. **Pradeep Vishwakarma (8/11/2016)**. Impact of Hyper and Hypo Thyroidism on Male Reproductive System: Clinical Study (Thesis Writing in process).
2. **Prachi Jha (11/03/2016)**. Antimicrobial and Immunomodulatory Efficacy of Biologically Synthesized Gold and Copper Nano-particles from Wild Mushrooms with Special Reference to *Cantherualls* species (Thesis Writing in process)
3. **Ekta Choubey (03/10/2016)**. Study and Characterization of Antioxidant & Anticancer Properties of *Moringa oleifera*- Indian Specie (Co-Supervisor)
4. **Nitesh Kumar Sinha (2018)**. Study on Synergistic Effect of Bio-fertilizers on Vegetable Production of *Solanum lycopersicum* and *Brassica oleracea* (Co-Supervisor)
5. **Venu Prabha Sahu (2018)**

M. Phil. Degree Awarded

- **Swapna Sharma (2011)**. Isolation and Characterization of Fungal Metabolites from *Alternaria* spp. as Herbicide. MATS University, Raipur.
- **Neelofer Siddique (2011)**. Antimicrobial and Antioxidant Activity of *Aloe vera* and *Cymbopogon flexuosus*. MATS University, Raipur.
- **Tripti Yogi (2019)**. Study of Antimicrobial Activity of *Cassia angustifolia* Leaf Extract. MATS University, Raipur.
- **Banishree Panda (2020)**. Antimicrobial and Antioxidant Activity of *Catharanthus roseus* plant. MATS University, Raipur.

M. Sc. Microbiology Dissertations Work

- **Shubdha Shukla (2010)**. Screening of Antimicrobial Compound from Wild and Cultivated Mushrooms. Mata Gujri Women's College, Jabalpur.
- **Vrundra Chaudhary (2010)**. Isolation and Identification of Human Pathogenic Fungi from Immuno-compromized Patients. Mata Gujri Women's College, Jabalpur.

M. Sc. Biotechnology Dissertations Work

- **Preeti Parasar (2010).** Isolation and Identification of Hyper Protease Producing Fungi from Protein Rich Habitats. Mata Gujri Women's College, Jabalpur.
- **Neha Pathak (2011).** Antibacterial Activity of *Pleurotus sajor caju* Against Some UTI's Agent. Biogenesis Centre for Biotechnology and Microbiology, Tatiband, Raipur.
- **Anjay Gupta (2011).** Antimicrobial Activity of *Pleurotus sajor caju* and *Agaricus bisporus* against secondary microbial infections. Biogenesis Centre for Biotechnology and Microbiology, Tatiband, Raipur.
- **Garima Tiwari (2012).** Antimicrobial Activity of Some Medicinal Plant Secondary Metabolite and Comparison with Some Synthetic Drugs. Modern Biotech Research Laboratory (ISO 9001: 2008 Certified) Raipur.
- **Aishwarya Chaure (2013).** Study of Antibacterial Effect of Copper and Silver Nanoparticle. Modern Biotech Research Laboratory (ISO 9001: 2008 Certified) Raipur.
- **Anchal Soni (2013).** Degradation of Industrial Dyes by Higher Fungi. Modern Biotech Research Laboratory (ISO 9001: 2008 Certified) Raipur.
- **Parul Siyar (2013).** Study of Antioxidant Activity of Some Selected Medicinal Plant of Chhattisgarh. Modern Biotech Research Laboratory (ISO 9001: 2008 Certified) Raipur.