

## BIODATA OF Dr. A.K. GUPTA

**Name:** ASHWINI KUMAR GUPTA  
**Date/Place of Birth:** August 04, 1958, AGRA  
**Address:** School of Life Sciences, Pt. Ravishankar Shukla University,  
RAIPUR- 492 010 (Chhattisgarh)  
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### Education:

- a) Higher Secondary Certificate, 1975, CBSE, New Delhi
- b) B.Sc., BIOLOGY, 1978, Jiwaji University, Gwalior
- c) M.Sc., BIOSCIENCE (Parasitology & Immunobiology), 1980, Pt. Ravishankar Shukla University, Raipur
- d) Ph.D., BIOSCIENCE (Parasitology), 1984, Pt. Ravishankar Shukla University, Raipur  
(Survey and pathophysiology of economically important food fishes parasitized by trematodes and cestodes)
- e) Dip in German, 1983, Pt. Ravishankar Shukla University, Raipur

### Experiences:

- a) Lecturer, Pt. Ravishankar Shukla University, 1984-1989
- b) Senior Lecturer, Pt. Ravishankar Shukla University, 1989 -1997
- c) Reader, Pt. Ravishankar Shukla University, 1997-2005
- d) Professor, Pt. Ravishankar Shukla University, 2005 till date

### Awards:

- a) Junior Research Fellowship, UGC, New Delhi, 1980-1983
- b) Senior Research Fellowship, CSIR, New Delhi, 1983-1984

### Fellow:

**The Zoological Society of India, Kolkata (2003)**

### Professional Society Membership:

- a) Indian Society of Parasitology
- b) National Academy of Vector Borne Diseases
- c) Journal of Parasitology and Applied Animal Biology
- d) The Zoological Society of India

### Research Area:

Parasitology & Immunology, Pathophysiology, Parasite Physiology & Biochemistry, Fish Physiology, Vector Biology, Microbiology

### Research Guidance:

- a) Ph. D. - 08+06
- b) M. Phil.- 14
- c) M.Sc. project: 05

**Research Publication:** Please see enclosed list.

**Grant Support:**

- a) Project 1: Pathology and Histochemistry of Parasitic Diseases of Fresh Water Fishes  
Tenure: October 1989 to September 1992, Agency: MPCST, BHOPAL,  
Grant: Rs. 75000=00
- b) Project 2: Bionomics and Serological studies on Bancroftian Filariasis at Raipur  
Tenure: April 1997 to March 1999, Agency: UGC unassigned grant, Pt. RSUniv., Raipur  
Grant: Rs. 25000=00
- c) Project 3: Bionomics of Malaria vectors of Raipur region of Chhattisgarh State.  
Tenure: March 2002 to September 2003, Agency: NMEP, New Delhi  
Grant: Rs. 12.0 lakh
- d) Project 4: Evaluation of Larvicidal Potential of Some Weed Plants against Vectors of Malaria and Filariasis  
Tenure: August 2003 to July 2006, Agency: CGCOST, Raipur  
Grant: Rs. 1.80 lakh
- e) Project 5: Transmission Dynamics of Bancroftian Filariasis: Factors Affecting the Vector Efficiency of *Culex quinquefasciatus*. Tenure: April 2005 to March 2007, Agency: ICMR, New Delhi  
Grant: Rs. 6.0 lakh
- f) Project 6: Exploration of endophytic actinomycetes from some medicinal plants from Raipur district for antibiotic potential. Tenure: September 2015 to August 2018, Agency: CGCOST, Raipur  
Grant: Rs. 5.0 lakh

**Research Experience/ Refresher Course in various Institutions:**

- 1. National Institute of Immunology, New Delhi December 3-21, 1984  
**Recent Advances in Immunodiagnostic Techniques**
- 2. Mahatma Gandhi Institute of Medical Sciences, Sevagram, Wardha, October 12-25, 1989  
**Enzyme immunoassay and its application in the diagnosis of parasitic infections**
- 3. Post Graduate Institute of Medical Education and Research, Chandigarh, September 10-20, 1990  
**Experimental Immunology in Parasitic Diseases**
- 4. Staff Development College and Department of Biosciences, Mangalore University, Mangalore,  
December 13, 1996 to January 4, 1997  
**UGC Refresher Course in Biosciences**
- 5. Department of Zoology, Jiwaji University, Gwalior, July 15 to August 4, 1997  
**Cloning and Expression of Animal Genes**
- 6. Department of Zoology, Banaras Hindu University, Varanasi, September 9-22, 1997  
**Advanced Techniques in Developmental Genetics**

**Other Information:**

- Head, School of Studies in Life Science, PRSU, Raipur, July 2013- till date
- Dean, Life Sciences, Pt. Ravishankar Shukla University, Raipur, April 2012- March 2014
- Executive Member, Indian Society for Parasitology, 2008-2010

-Associate Editor: Journal of Parasitology and Applied Animal Biology since 1991-2007  
-Assistant Coordinator: IGNOU, Study Centre: Raipur, January 1998 -December 2006  
-Dean Students Welfare and Cultural Coordinator, Pt. R.S. University, Raipur, June 2000-December 2003  
-Coordinator, IQAC, Pt. R.S. University, Raipur, March 2006- January 2010  
-OSD, General Administration, Pt. Ravishankar Shukla University, Raipur, June 2009- January 2011  
-OSD, Grants Cell, Pt. Ravishankar Shukla University, Raipur, March 2011- till date

## **Dissertations Supervised:**

### **Ph. D.**

1. Dr. Abha Dubey (1992): Studies on monogenean trematodes and their parasitic effects on freshwater fishes at Raipur.
2. Dr. K.K. Harris (1994): Histochemistry of *Pallisentis nagpurensis* Bhalerao, 1931 and pathophysiology of *Channa punctatus* and *Colisa lalia* during *P. nagpurensis* infection.
3. Dr. Vandana Dixit (2001): Studies on transmission dynamics of Bancroftian filariasis: Factors affecting the vector efficiency of *Culex quinquefasciatus*.
4. Dr. Manisha Garg (2002): Studies on protozoan parasites of fresh water fishes, *Labeo rohita* and *Cirrhinus mrigala* at Raipur.
5. Dr. Kamal Nayak (2008): Larvicidal activity of *Blumea lacera* DC and *Hyptis suaveolens* Poit, against species of *Culex* and *Anopheles*.
6. Dr. Parmanand Baghel (2011): Population dynamics and prevalence of insecticide resistance in vectors of malaria in Chhura region of Raipur district.
7. Dr. Seema Bilorkar (2014): Microbial production of fructosyltransferase for synthesis of Prebiotics.
8. Dr. Ashish Sarkar (2016): Biochemical and immunological characterization of keratinases from fungi of Raipur.
9. Mr. Dhananjay Pandey (Submitted 2016): Assessment of the antimicrobial activity of some medicinal plant from Bastar region of Chhattisgarh.
10. Ms. Rinu Khan (Registered 2011): Exploration, isolation and characterization of copper and nickel extracting microbes from central India with reference to Chhattisgarh region.
11. Ms. Deepika Mahobiya (Registered 2011): Isolation, purification and characterization of L-Asparaginase from endophytic fungi of some medicinal herbs and shrubs.
12. Ms. Sandhya Chandrakar (Registered 2011): Isolation, characterization and antibiotic production ability of endophytic actinomycetes from some medicinal herbs and shrubs.
13. Mr. Dhananjay Tandon (Registered 2014): Antimicrobial and antioxidant properties of *Hygrophila spinosa* Anderson and *Sphaeranthus indicus* Linnaeus.
14. Ms. Priya Sutaoney (Registered 2014): Isolation and Characterization of textile degrading fungal cellulose from handloom waste.

### **M. Phil.**

1. Ms. Vijaya Kapade (1988): Pathophysiology of *Bubulcus ibis* infected with *Nephrostomum ramosum* (Sonsino, 1895) Dietz, 1909.
2. Mr. Kumar Lal Chouhan (1989): Pathology and Histochemistry of liver of *Channa punctatus* infected with metacercariae of *Euclinostomum heterostomum* (Rudolphi, 1809).
3. Ms. Kavita Chauhan (1990): Pathology and histochemistry of *Channa punctatus* infected with *Pallisentis nagpurensis* (Bhalerao, 1931).
4. Ms. Shobha Pandey (1991): Parasitic effects on haematology of *Labeo rohita* infected with *Dactylogyrus labei* (atypical form).
5. Ms. Shipra Sinha (1992): Pathophysiology of corynebacterial kidney disease in *Clarias batrachus*.

6. Ms. K. Sujakumari (1993): Aspects of immune response in *Clarias batrachus* infected with *Corynebacterium aquarium*.
7. Ms. Moushmi Dey (1996): Purification of Filarial antigens from infected human biological fluids.
8. Mr. Raju Lal Kosare (2008): Efficacy of *Annona squamosa* L. and *Pongamia pinnata* L. against a Filarial vector *Culex quinquefasciatus* Say.
9. Ms. Rinu Khan (2009): Antimicrobial activity of *Annona squamosa* L. and *Pongamia pinnata* L. against pathogen isolates from Raipur region.
10. Ms. Shweta Namdeo (2010): Antibacterial activity of *Cynodon dactylon* L. and *Hyptis suaveolens* L. against pathogen isolates from Raipur region.
11. Ms. Sheetal Sharma (2011): Antibacterial activity of *Seena obtusifolia* L. and *Tephrosia purpurea* L. against pathogenic bacterial isolates.
12. Ms. Linda K Varghese (2012): Isolation, screening and biochemical characterization of pectinolytic microorganisms from soil sample of Raipur city.
13. Ms. Pranita Sharma (2013): Antimicrobial activity of *Cassia alata* and *Ocimum basilicum* against clinical and MTCC isolates.
14. Mr. Satish Kumar Chandvani (2013): Bioefficacy of *Ageratum conyzoides* L. and *Caesalpinia bonduc* (L.) Roxb. against clinical and MTCC microbial isolates.

### **M. Sc. Project:**

01. Ms. Snigdha Gudean (2004): Levels of total protein and gamma globulins in human subjects suffering from different diseases
02. Mr. Bhupendra Singh Thakur (2006): Prevalence of Lymphatic Filariasis in suburbs of Raipur city.
03. Ms. Swati Patel (2007): Effect of *Lantana camara* (Verbenaceae) on *Culex quinquefasciatus* Say (Diptera: Culicidae).
04. Ms. Richa Dixit (2011): Effect of DDT on Filarial vector, *Culex quinquefasciatus* at Raipur.
05. Ms. Neha Neekhara (2012): Isolation, identification and screening of thermophilic fungi from Raipur for alkaline protease.

**Dr. A.K. Gupta, Professor, School of Studies in Life Sciences, Pt. Ravishankar Shukla University, Raipur**

**LIST OF PUBLICATIONS**

01. GUPTA AK and Agarwal SM 1982: Statistical evaluation of *Paradistomum orientalis* collected from gall bladder, liver and intestine of *Calotes versicolor*. *Proc Indian Acad Parasitol* 3, 54-59.
02. GUPTA AK, Niyogi A, Chetty SR, Gaur AS and Agarwal SM 1982: Free amino acids and protein hydrolysates of *Isoparorchis hypselobagri* (Billet), respectively from swim bladder of *Wallagonia attu* and body cavities of *W. attu* and *C. punctatus*. *Rivista di Parasit* 43, 353-359.
03. Niyogi A, GUPTA AK and Agarwal SM 1982: Morphology of *Lucknowia indica* sp. nov. (Lytocestidae: Caryophyllidae). *Proc Indian Acad Parasitol* 3, 17-22.
04. Niyogi A, GUPTA AK and Agarwal SM 1982: Population dynamics of caryophyllids parasitizing *Clarias batrachus* at Raipur. *Geobios New reports* 1, 81-93.
05. GUPTA AK and Agarwal SM 1983: Host parasite relationships in *Channa punctatus* and *Euclinostomum heterostomum*. *Current Science* 52, 474-476.
06. Rai V, GUPTA AK, Niyogi A and Agarwal SM 1983: Alkaline and acid phosphatase in certain organs of normal *Channa punctatus* (Bloch) and *Clarias batrachus* (Linn). *Geobios* 10, 267-270.
07. GUPTA AK, Gaur AS and Agarwal SM 1983: Comparative studies of nonspecific phosphomonoesterases, glycogen and pyruvic acid in *Isoparorchis hypselobagri* from air bladder and body cavity of *Wallagonia attu*. *Jpn J Parasit* 32, 357-361.
08. GUPTA AK and Agarwal SM 1983: Host parasite relationships in *Channa punctatus* and *Euclinostomum heterostomum* II. *Current Science* 52, 1141-1143
09. Rai V, GUPTA AK and Agarwal SM 1984: Parasitic effects on the levels of alkaline and acid phosphatase in *Channa punctatus* (Bloch) and *Clarias batrachus* (Linn). *Geobios* 11, 34-37.
10. Rai V, GUPTA AK and Agarwal SM 1984: Levels of acid and alkaline phosphatases in different organs of uninfected and infected *Channa punctatus*, following starvation. *Current Science* 53, 330-331.
11. GUPTA AK and Agarwal SM 1984: Host parasite relationships in *Channa punctatus* and *Euclinostomum heterostomum* III. Transaminases and total proteins and Free amino acids. *Current Science* 53, 710-711.
12. GUPTA AK, Niyogi A, Naik ML and Agarwal SM 1984: Population dynamics of endohelminths of *Channa punctatus* at Raipur. *Jap J Parasit* 33, 105-118.
13. Niyogi A, GUPTA AK and Agarwal SM 1984: Immunological interpretation of concurrent infection of Caryophyllaeid species in *Clarias batrachus* at Raipur. *Geobios New reports* 3, 116-119.
14. Niyogi A, GUPTA AK, Naik ML and Agarwal SM 1984: Frequency distribution of caryophyllids parasitizing *Clarias batrachus* at Raipur. *Proc Indian Acad Parasitol* 5, 5-9.

15. GUPTA AK and Agarwal SM 1984: Statistical evaluation of 38 mature in 5 samples of total 118, *Xenopharynx solus* from gall bladder of *Tropidonotus piscator*. *Rivista di Parasit* 46,144-148.
16. GUPTA AK and Agarwal SM 1985: Physiology of host parasite relationships of *Pallisentis nagpurensis* and *Senga visakhapatnamensis* parasitizing liver of *Colisa lalia* and intestine of *Channa punctatus*. *Current Science* 54, 866-869.
17. GUPTA AK, Niyogi A and Agarwal SM 1985: Frequency distribution and regulation of parasitic populations in *Colisa lalia*. *Current Science* 54, 1122-1123.
18. Udaysundari R, GUPTA AK and Agarwal SM 1986: Studies on protein and carbohydrate metabolism of *Paramphistomum cervi*. *Proc Indian Acad Parasitol* 7, 17-23.
19. GUPTA AK and Agarwal SM 1986: Biochemical investigation on *Isoparorchis hypselobagri* from swim bladder of *Wallogonia attu* and body cavities of *W. attu* and *C. punctatus*. *Indian J Parasit* 10, 47-51.
20. Sahu R, GUPTA AK, Gaur AS and Agarwal SM 1987: Studies on certain aspects of protein metabolism during the developmental physiology of *Clinostomum complanatum*. *Indian J Parasit* 11, 37-42.
21. GUPTA AK, Rai V and Agarwal SM 1987: Effect of starvation on total proteins and free amino acids in some organs of the fish, *Channa punctatus*. *Geobios* 14, 108-110.
22. Rai V, GUPTA AK, Niyogi A and Agarwal SM 1988: Levels of acid and alkaline phosphatases in developing and mature gonads of healthy and infected *Clarias batrachus*. *Biome* 3, 128-130.
23. GUPTA AK, Shukla A, Niyogi (Poddar) A and Agarwal SM 1989: Incidence of Corynebacteriosis in fishes at Raipur. *Indian J Parasit* 13, 125-128.
24. Kapade V and GUPTA AK 1989: Pathophysiology of *Bubulcus ibis* infected with *Nephrostomum ramosum* (Sonsino, 1895) Dietz, 1909. *Indian J Helminth (Suppl)* 41, 29-33.
25. Dubey A, GUPTA AK and Agarwal SM 1990: Studies on monogenean parasites in freshwater fishes at Raipur III. Three new species of genus *Gyrodactylus* Nordmann (1832). *Indian J Helminth* 42, 1-8.
26. Dubey A, GUPTA AK and Agarwal SM 1990: Studies on monogenean parasites in freshwater fishes at Raipur VI. A review and synonym of species of the genus *Bifurcohaptor* Jain, 1958 (Ancylo-discoidinae: Ancyrocephalidae). *Indian J Helminth* 42, 154-163.
27. Dubey A, GUPTA AK and Agarwal SM 1991: Studies on monogenean parasites of freshwater fishes at Raipur IV. Taxonomic discussions on the scope of *Quadriacanthus* Paperna, 1961. A new genus *Anacornuatus* and two new species from *Clarias batrachus* at Raipur. *Indian J Helminth* 43, 27-34.
28. Harris KK, GUPTA AK and Agarwal SM 1992: Pathophysiology of epizootic ulcerative syndrome in *Channa punctatus*. *J Parasit Appl Anim Biol* 1, 125-130.
29. Dubey A, GUPTA AK and Agarwal SM 1992: Studies on monogenean parasites of freshwater fishes at Raipur VIII. Validity of *Parancylo-discoides* Achmerow, 1964 (*Silurodiscoides* Gussev, 1974) and two new species from Raipur. *Indian J Helminth* 44, 9-16.
30. Dubey A, GUPTA AK and Agarwal SM 1992: Studies on monogenean parasites of freshwater fishes at Raipur VII. A report on the occurrence of the genus *Mizelleus* Jain, 1957 and a taxonomic discussion on species included in it. *Indian J Helminth* 44, 51-57.

31. Harris KK and GUPTA AK 1992: Histochemical observations on the intestinal lesions induced by a caryophyllaeid cestode *Lytocestus indicus* (Moghe) in the catfish *Clarias batrachus* (Linn.). *Indian J Helminth* 44, 63-67.
32. Dubey A, GUPTA AK and Agarwal SM 1992: Studies on monogenean parasites of freshwater fishes at Raipur IX. Two new species of the genus *Cornudiscoides* Kulkarni, 1969 and a taxonomic discussion on species included in it. *Indian J Helminth* 44, 109-115.
33. Dubey A, GUPTA AK and Agarwal SM 1992: Studies on monogenean parasites of freshwater fishes at Raipur X. Taxonomic discussion on the validity of the genus *Urocleidus* Muller, 1934 (Ancrycephalinae) and description of a new species from *Mastocembelus armatus* and *Macrognathus aculeatus* at Raipur. *Indian J Helminth* 44, 116-122.
34. Ramachandruni A, GUPTA AK and Agarwal SM 1992: Epidemiology and biological significance of cercarial infection of snail hosts at Raipur. *Indian J Helminth* 44, 152-168.
35. Harris KK, GUPTA AK and Agarwal SM 1993: Histochemistry of *Pallisentis nagpurensis* Bhalerao 1931, parasitizing the snakeheaded murrel, *Channa punctatus*. I. Non-enzymatic components. *J Parasit Appl Anim Biol* 2, 39-43.
36. Dubey A, GUPTA AK and Agarwal SM 1993: Population biology of monogenean parasites of freshwater fishes at Raipur. *J Parasit Appl Anim Biol* 2, 57-66.
37. Harris KK and GUPTA AK 1993: Pathology and histochemistry of snakeheaded murrel, *Channa punctatus* Bloch, following corynebacterial kidney disease. *Proc Zool Soc, Calcutta* 46, 71-81.
38. Dubey A, Harris KK, GUPTA AK and Agarwal SM 1993: Pathophysiology of *Channa punctatus* and *Labeo rohita* respectively during Gyrodactylosis and Neodactylogyrosis. *J Parasit Appl Anim Biol* 2, 125-130.
39. Harris KK and GUPTA AK 1993: Histochemistry of *Pallisentis nagpurensis* Bhalerao, 1931, (Acanthocephala: Pallisentidae) juvenile cyst in *Colisa fasciatus* and the histopathological alterations in the host. *Indian J Parasit* 17, 107-111.
40. Harris KK and GUPTA AK 1994: Intestinal cytokinetics of the snakeheaded fish *Channa punctatus* (Bloch), infected with *Pallisentis nagpurensis* Bhalerao, 1931 (Acanthocephala: Pallisentidae). *Indian J Exptl Biol* 32, 438-440.
41. Sinha S, Harris KK and GUPTA AK 1994: Pathophysiology of *Clarias batrachus* during corynebacteriosis. *J Parasit Appl Anim Biol* 3, 131-134.
42. Harris KK, Chouhan K and GUPTA AK 1995: Intestinal pathology of the snakeheaded murrel, *Channa punctatus* resulting due to infection with *Pallisentis nagpurensis* Bhalerao, 1931 and histochemical alteration in the intestinal wall of the host. *J Parasit Appl Anim Biol* 4, 21-27.
43. Dubey A, GUPTA AK and Agarwal SM 1997: Studies on monogenean parasites of freshwater fishes at Raipur V. Redescription of *Dactylogyroides tripathii* (Tripathi, 1959) Gussev, 1974 and a note on taxonomy of species of the genus. *J Parasit Appl Anim Biol* 6, 31-38.
44. Dixit V, Kurup AV, GUPTA AK, Kataria O and Prasad GBKS 1997: Bancroftian filariasis in south east Madhya Pradesh: Pre-control epidemiological observations. *Indian J Clinical Biochemistry* 12 (Suppl), 39-43.
45. Dixit V, GUPTA AK, Kataria O and Prasad GBKS 2001: Host preference of *Culex quinquefasciatus* in Raipur city of Madhya Pradesh state. *Journal of Communicable Diseases* 33 (1), 17-22.

46. Dixit Vandana, GUPTA AK, Kataria Om and Prasad GBKS 2002: Population dynamics of *Culex quinquefasciatus* Filaria vector in Raipur city of Chhattisgarh State. *Journal of Communicable Diseases* 34 (3), 193-202.
47. Dixit V, Pati AK, GUPTA AK and Prasad GBKS 2004: Rhythmic behaviour of *W. bancrofti* microfilaraemia in human population at Raipur. *Biological Rhythm Research* 35 (3/4), 355-366.
48. Harris KK, Chouhan KL and GUPTA AK 2005: Pathology and histochemistry of *Euclinostomum heterostomum* Rudolphi, 1925 (Trematoda: Clinostomatidae) metacercarial infection in the snakehead *Channa punctatus* Bloch, with remarks on the chemical nature of the cyst *J Parasit Appl Anim Biol* 14, 9-18.
49. Harris KK and GUPTA AK 2006: Histoenzymological studies on *Pallisentis nagpurensis* Bhalerao, 1931 parasitizing the snakeheaded murrel, *Channa punctatus* at Raipur. *J Parasit Appl Anim Biol* 15, 73-80.
50. Dixit V, GUPTA AK, Bisen PS, Prasad GBKS and Harinath BC 2007: Serum immune complexes as diagnostic and therapeutic markers in lymphatic filariasis. *Journal of Clinical Laboratory Analysis* 21, 114-118.
51. Baghel P, Naik K, Dixit V, GUPTA AK, Kataria OM and Prasad GBKS 2008: Prevalence of Mosquito species in Chhura Block of Raipur District of Chhattisgarh State. *Journal of Communicable Diseases*, 40 (2): 139-146.
52. Dixit V, Pati AK, GUPTA AK, Bisen PS and Prasad GBKS 2009: Filarial infection is resisted differentially by subjects having different blood group phenotypes. *Journal of Clinical Laboratory Analysis* 23, 186-191.
53. Dixit V., GUPTA AK and Prasad GBKS 2009: Interruption of annual single dose DEC regimen administration: Impact on *Wuchereria bancrofti* microfilaraemia, vector infection and infectivity rates. *Journal of Communicable Diseases*, 41 (1), 25-31.
54. Dixit V, Baghel P, GUPTA AK, Bisen PS and Prasad GBKS 2009: Impact of season on filarial vector density and infection in Raipur city of Chhattisgarh, India. *J Vector Borne Dis* 46, 212-218.
55. Baghel P, Naik K, Dixit V, GUPTA AK, Bisen P and Prasad GBKS 2009: Indoor resting density pattern of mosquito species in Fingeswar block of Raipur district in Chhattisgarh, Central India. *Journal of Parasitic Disease* 33(1-2), 84-91.
56. Dixit V, GUPTA AK, Bisen PS and Prasad GBKS 2010: Interruption of annual single dose DEC regimen administration fails to affect transmission intensity even in a situation of filarial low endemicity. *International Medical Journal* 17 (2), 117-121.
57. Belorkar Seema A, Roymon MG, Rai V and GUPTA AK 2011: Optimization of Fructosyl transferase production by *Aspergillus niger* isolated from Durg district. *Advances in Biotech Research*, 229-236.
58. Pandey D and Gupta AK 2013: Screening of the antibacterial activity of *Amorphophallus campanulatus* from Bastar region of Chhattisgarh, India. *International Journal of Applied Biology and Pharmaceutical Technology* 4 (4), 1-6.
59. Khan R and GUPTA AK 2013: Assessment of different parts of *Annona squamosa* L. for their antimicrobial activity against pathogen isolates from Raipur region. *Asian J Microbiol Biotech Env Sc* 15 (4), 765-768.
60. Varghese LK, Rizvi AF and GUPTA AK 2013: Isolation, screening and biochemical characterization of pectinolytic microorganism from soil sample of Raipur city. *Journal of Biological and Chemical Research*, 30 (2), 636-643.
61. Belorkar Seema A, GUPTA AK and Rai V 2013: Isolation of potential microbial producers of fructosyltransferase from baggasse and selected soil sites of Chhattisgarh, India. *Asian J Microbiol Biotech Env Sc*, 15 (4), 785-788.



62. Sarkar AK, Rai V and GUPTA AK 2014: Incidence of keratinophilic fungi in areas of Raipur city, Chhattisgarh region, India. *African Journal of Microbiology Research*, 8 (3), 264-269.
63. Pandey D and GUPTA AK 2014: Antibacterial efficacy of *Curcuma caesia* from Bastar district of Chhattisgarh, India, *International Journal of Pharmaceutical Sciences and Research* 5 (6), 2294-2301.
64. Pandey D and GUPTA AK 2014: Antimicrobial activity and phytochemical analysis of *Urgenia indica* from Bastar district of Chhattisgarh. *International Journal of Pharmaceutical Sciences Review and Research* 26 (2), 273-281.
65. Mahobiya D and. GUPTA AK 2014: Endophytic fungi from selected herbs & shrubs of Raipur and their L-asparaginase producing potentials. *Journal of Ravishankar University-B*, 28, 51-59.
66. Sarkar AK, Rai V and GUPTA AK 2015: Degradation of keratins by *Chrysosporium* species: A comparative study. *Journal of Pure and Applied Microbiology*, 9 (Spl. Edn. 2), 583-588.
67. Chandrakar S and. GUPTA AK 2015: Antibiotic potential of endophytic actinomycetes of medicinal herbs against human pathogenic bacteria. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, ISSN 0369-8211. DOI 10.1007/s40011-015-0668-9.
68. Sharma P, Pandey D, Rizvi AF and GUPTA AK 2015: Antimicrobial activity of *Cassia alata* from Raipur region against clinical and MTCC isolates. *International Journal of Current Microbiology and Pharmaceutical Technology*, 4 (1), 330-339.
69. Khan Rinu and GUPTA AK 2015: Assessment of antimicrobial activity of different parts of *Pongamia pinnata* L. extracts obtained by sequential extraction against pathogen isolates from Raipur region. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6 (2), 577-582.
70. Belorkar Seema A, GUPTA AK and Rai V 2015: Screening of microbial isolates for extracellular fructosyltransferase production. *African Journal of Microbiology Research*, 9 (10), 730-735.
71. Pandey D and GUPTA AK 2016: Assessment of the antifungal activity of five traditionally important medicinal plants from Bastar, Chhattisgarh. *Journal of Biological and Chemical Research*, 33 (1), 24-33.

**Papers at Conferences: 90 +**