BIODATA OF Dr. A.K. GUPTA

Name: ASHWINI KUMAR GUPTA

Date/ Place of Birth: August 04, 1958, AGRA

Address: Professor, School of Life Science,
Pt. Ravishankar Shukla University,
RAIPUR - 492 010 (Chhattisgarh)
Email: akguptarsu@gmail.com;
Mobile: 9826236706

Residence: K-1, Kanchan Ganga Phase II, Vartika Estate, P.O.: RSU, Raipur – 492010 (Chhattisgarh)

Education:

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

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) The Zoological Society of India

Research Area:
Parasitology & Immunology, Pathophysiology, Parasite Physiology & Biochemistry, Fish Physiology, Vector Biology, Medical Microbiology

Research Guidance:
a) Post doctoral: 02
b) Ph. D. - 14+03
c) M. Phil. - 14
d) 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- June 2016
-Dean, Life Sciences, PRSU, Raipur, April 2012- March 2014
-Executive Council Member, PRSU, Raipur, September 2013- March 2014
-Chairman, Board of Studies in Microbiology (2008-2014), Bioscience (2014-2017)
-Executive Member, Indian Society for Parasitology, 2008-2010
-Associate Editor, Journal of Parasitology and Applied Animal Biology, 1991 - 2007
-Assistant Coordinator: IGNOU, Study Centre: Raipur, January 1998 - December 2006
-Dean Students Welfare and Cultural Coordinator, PRSU, Raipur, June 2000 - December 2003
-Coordinator, IQAC, PRSU, Raipur, March 2006 - January 2010
-OSD, General Administration, PRSU, Raipur, June 2009 - January 2011
-OSD, Grants Cell, PRSU, Raipur, March 2011- March 2018
-Director, Human Resource Development Centre, PRSU, Raipur, July 2019 – June 2021
-**Director, College Development Council**, PRSU, Raipur, April 2017- till date

Post Doctoral Mentorship:

1. Dr. Ayesha Fatima Rizvi, UGC Women PDF: Isolation, purification and characterization of extracellular alkaline protease and xylose isomerase from thermophillic fungi (2012 – 2017)

2. Dr. Vijayalakshmi Ghosh, SERB NPDF: Plant Essential Oil based Encapsulated Nanoemulsion for Mosquito Vector Control (30.6.2018 – 29.12.2020)

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. Dr. Dhananjay Pandey (2017): Assessment of the antimicrobial activity of some medicinal plant from Bastar region of Chhattisgarh.
10. Dr. Rinu Khan (2017): Exploration, isolation and characterization of copper and nickel extracting microbes from central India with reference to Chhattisgarh region.
11. Dr. Deepika Mahobiya (2017): Isolation, purification and characterization of L-Asparaginase from endophytic fungi of some medicinal herbs and shrubs.
12. Dr. Sandhya Chandrakar (2017): Isolation, characterization and antibiotic production ability of endophytic actinomycetes from some medicinal herbs and shrubs.

13. Dr. Priya Sutaoney (2021): Isolation and characterization of textile degrading fungal cellulose from handloom waste. (Co-Guide)
14. Mr. Dhananjay Tandon (Submitted 2021): Antimicrobial and antioxidant properties of *Hygrophila spinosa* Anderson and *Sphaeranthus indicus* Linnaeus.
15. Ms. Geetika Wag (Registered 2016): Exploration of endophytic actinomycetes from *Sphaeranthus indicus* Linnaeus and assessment of their antibiotic potential.
16. Ms. D. Sunita (Registered 2018): Larvicidal efficacy of endophytic actinobacteria of *Blumea lacera* against *Culex quinquefasciatus*, a filariasis vector.
17. Ms. Sujata Yadav (Registered 2018): Assessment of antimicrobial and antibiofilm efficacy of endophytic actinobacterial isolates of *Bryophyllum pinnatum* (lam.) Oken.

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

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, Niyogi A 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 (Ancylodiscoidinae: Ancryocephalidae). *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 *Parancylodiscoides* 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 (Ancryocephalinae) and description of a new species from *Mastocembelus armatus* and *Macrognathus aculeatus* at Raipur. *Indian J Helminth* 44, 116-122.

34. Ramachandrula 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 (Acantho-cephala: 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. Rediscription 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 quinquefasciatu*s in Raipur city of Chhattisgarh 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 (4/5), 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 (Print 2017): Antibiotic potential of endophytic actinomycetes of medicinal herbs against human pathogenic bacteria. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences* 87(3), 905-915, 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 Applied Sciences* 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 Dhananjaya and GUPTA AK 2015: *Bioactive Phytocompounds as Antimicrobials and Their Future Perspectives – A Review*, pp. 53-67, In: New Dimensions in Microbiology (eds. M.M. A. Khan *et al.)*, ISBN: 978-93-85160-84-4, Lenin Media Private Limited, Delhi, India

72. Khan R and GUPTA AK 2015: Screening and optimization of organic acid producers from mine areas of Chhattisgarh region, India. *International Journal of Current Microbiology and Applied Sciences* 4, 103-111

73. 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.

74. Belorkar Seema A, and GUPTA AK 2016: Oligosaccharides: a boon from nature's desk. *AMB Express*, 6.82, DOI 10.1186/s13568-016-0253-5; 6 (1), 1-11.

75. Belorkar Seema A, GUPTA AK and Rai V 2016: Enhancement of extracellular fructosyltransferase production by *Aspergillus stallus* through batch fermentation. *Journal of Pure and Applied Microbiology* 10 (1), 649-656.

76. Khan R and GUPTA AK 2017: Copper and nickel extracting fungi from low and lean grade ores from mine areas of Chhattisgarh. *Asian Journal of Experimental Sciences* 31, 39-43.

77. Chandrakar S and. GUPTA AK 2017: Production and characterization of Actinomycin D from *Streptomyces parvulus* isolated from *Aloe vera* (L.) Burm. F and its antimicrobial activity. *International Journal of Pharmaceutical Sciences Review and Research* 46 (1), 169-175.

78. Mahobiya Deepika and GUPTA AK 2017: Diversity of endophytic fungi associated with some medicinal herbs and shrubs. *Kavak* 49, 38-44.

79. Khan R and GUPTA AK 2017: Screening and characterization of acid producing fungi from different mine areas of Chhattisgarh region. *Kavak* 49, 45-49.

80. Khan Subuhi, Dixit Vandana, Qureshi S, GUPTA AK and Prasad GBKS 2017: In vitro and In vivo antifilarial effect of tetracycline/ doxycycline. Journal of Pure and Applied Microbiology, 11(4), 2039-2043.

81. Chandrakar S and. GUPTA AK 2018 (print 2019): Studies on the production of broad spectrum antimicrobial compound polypeptide (Actinomycins) and lipopeptide (Fengucin) from *Streptomyces* sp. KR1 associated with root of *Abutilon indicum* against multidrug resistant human pathogens. *International Journal of Peptide Research and Therapeutics,* doi.org/10.1007/s10989-018-9727-4; 25, 779-798.

82. Chandrakar S and. GUPTA AK 2018 (print 2019): Actinomycin-producing endophytic *Streptomyces parvulus* associated with root of *Aloe vera* and optimization of conditions for antibiotic production. *Probiotics and Antimicrobial Proteins,* doi 10.1007/s12602-018-9451-6; 11 (3), 1055-1069.

83. Pandey Dhananjay and GUPTA A K 2019: Bioactive compound in *Urginea indica* (Kunth.) from Bastar and its spectral analysis by HPLC, UV-Vis, FT-IR, NMR, and ESI-MS. *SN Comprehensive Clinical Medicine,* DOI 10.1007/s42399-018-0039-y (e-ISSN 2523-8973; 1 (4), 241-254.

84. Pandey Dhananjay and GUPTA A K 2019: Bioactive compound of in *Curcuma caesia* (Roxb.) from Bastar and its spectral analysis by HPLC, UV-Visible, FT-IR, NMR, and ESI-MS. *International Journal of Pharmaceutical Sciences and Research*, 10 (1), 139-147. DOI 10.1007/s42399-018-0039-y (e-ISSN 2523-8973.

85. Belorkar Seema A, and GUPTA AK 2019: Purification and characterization of fructosyltransferase: A low molecular weight enzyme from *Aspergillus niger* NFCCI2736. *Research Journal of Biotechnology*, 14, 50-57.

86. Pandey Dhananjay and GUPTA AK 2020: Medicinal Plants: A Boon of Nature from Bastar. In: NESA E-version, February 2020.

87. Pandey Dhananjay and GUPTA AK 2020: Recent Advances in Medicinal Plant Secondary Metabolites as the Alternate Bioactive Therapy for Better Human Health – A Review, pp. 1-19, In: *Secondary Metabolites of Medicinal Herbs* (Edited by: Dr. M.M. Abid Ali Khan, Prof. Abbas Ali Mahdi, Murtaza Abid, Dr. T.S. Naqvi), ISBN: 978-93-88854-Edition: 2020, Discovery Publishing House Pvt. Ltd., New Delhi (India)

88. Pandey Dhananjay and GUPTA AK 2020: Combination Therapy: A Novel Concept of Integrative Medicine against Drug Resistant Human Pathogens – A Review, pp. 217-233, In: *Secondary Metabolites of Medicinal Herbs* (Edited by: Dr. M.M. Abid Ali Khan,

Prof. Abbas Ali Mahdi, Murtaza Abid, Dr. T.S. Naqvi), ISBN: 978-93-88854-Edition: 2020, Discovery Publishing House Pvt. Ltd., New Delhi (India)

89. Sutaoney Priya, Choudhary R and GUPTA AK 2020: Bioprospecting cellulolytic fungi associated with textile waste and *in vitro* optimization of cellulase production by *Aspergillus flavus* NFCCI-4154. *Rasayan J. Chem*, 13, 64-84.

90. Ghosh Vijayalakshmi, Ranjha Raju & GUPTA ASHWINI KUMAR 2020 (print 2021): Formulation of anti-larval nanoemulsion: Impact of droplet size on larvicidal activity against malaria vectors in Chhattisgarh, India. *Indian Journal of Biochemistry & Biophysics*, 58, 178-186.

91. Sutaoney Priya, Choudhary Rachna and GUPTA AK 2020: Microbial cellulases, their types, regulation and their potential in degradation of cellulosic fibres and textile materials: A review. *In: Environmental Changes and Impact on Biological System* (Eds: M. Abid, MM Abid, Ali Khan, SN Pandey, Bina Rani & VP Sharma), Lenin Media Private Limited, New Delhi, pp. 165-186.

92. Tandon Dhananjay and GUPTA AK 2020: Comparative assessment of antimicrobial and antioxidant activity between whole plant and parts of *Sphaeranthus indicus* Linn. (Asteraceae). *Clinical Phytoscience*, 6:23 https://doi.org/10.1186/s40816-020-00172-; 6 (1), 1-15.

93. Wag Geetika, Datla Sunita and GUPTA ASHWINI KUMAR 2021: Antimicrobial efficacy of bioactive compounds of rare endophytic actinobacteria, *Actinoalloteichus cyanogriseus* SIR5 (MK793584). Rasyan Journal of Chemistry, 14 (3), 2048-2055.

Papers at Conferences: More than 100

20 September 2021