



### Curriculum Vitae

**Name:** Dr. Ramesh Kumar  
**Sex:** Male  
**Date of Birth:** January 17<sup>th</sup>, 1971

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#### Correspondence Address

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Assoc. Prof. & Ex-Head  
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**Nationality:** Indian

**Marital Status:** Married

#### Educational Qualifications:

Name of Exam.	Board/Univ.	Year of Passing	Division	Subjects
M.Sc.	B.H.U., Varanasi	1995	First	Biochemistry
Ph.D.*	-do-	1999	-----	Biochemistry

\* Thesis Title: "**Evaluation of immune response in patients infected with *Leishmania donovani* (kala-azar).**"

#### Present Position:

- \* Associate Prof., Department of Biochemistry, Bundelkhand University, Jhansi (U.P.), India (15<sup>th</sup> Sept. 2008-till date)
- \* Head, Department of Biochemistry, Bundelkhand University, Jhansi (U.P.), India (August 2009-28<sup>th</sup> August 2012).
- Head, Department of Biochemistry, Bundelkhand University, Jhansi (10<sup>th</sup> 2016 –Dec. 2019)

## **FELLOWSHIPS**

1. Recipient of Junior Research Fellowship (1995-1997) by University Grant Commission, Government of India.
2. Recipient of Senior Research Fellowship (1997-2000) by University Grant Commission, Government of India.
3. Postdoctoral fellow, Colorado State University, Colorado, Fort Collins, USA (2000-2001)
4. Project Associate, National Institute of Immunology, New Delhi, India (3<sup>rd</sup> Sept. 2001-28<sup>th</sup> Nov. 2003).
5. Postdoctoral Research Scientist, Tan Tock Seng Hospital, Singapore (3<sup>rd</sup> Dec.2003-31<sup>st</sup> May 2005).
6. Research Fellow, National University of Singapore, Singapore (1<sup>st</sup> June 2005-28<sup>th</sup> Sept. 2006).
7. Senior Research Associate (CSIR-Pool Officer), Dept. of Zoology, University of Pune, Pune. (10<sup>th</sup> Nov. 2006 – 11<sup>th</sup> Sept. 2008).

## **NATIONAL LEVEL EXAM QUALIFIED**

Qualified Graduate Aptitude Test (GATE) in Engineering discipline during 1995. The percentile score was 91.66.

## **Other Academic Activities/EXAMINERSHIP/PATENTS/etc**

- Head, Department of Biochemistry, Bundelkhand University, Jhansi (August 2009-August 2012 & Oct. 10<sup>th</sup> 2016 –Dec. 2019)
- Convener, Board of Studies, Department of Biochemistry, Bundelkhand University, Jhansi (since 2010)
- Appointed as Examiner to conduct the practical examination, preparation of examination papers and their evaluation.
- Appointed as subject expert to recruit the teaching faculty at a College affiliated to Bundelkhand University, Jhansi
- Appointed as Centre Representative to conduct the CPMT (Medical Examination) at Moradabad.

## **RESEARCH GUIDANCE**

### **A. Doctoral (PhD):**

<b>S. No.</b>	<b>Name of the student</b>	<b>Title</b>	<b>Category</b>	<b>Degree awarded</b>
1.	Mr. Sheeraz Un Nazir	Role of Ets-1 Transcription factor in Breast Carcinogenesis	General	Awarded (2020)
2.	Mr. Balendra Singh	Molecular epidemiology and antibiotic susceptibility of coagulase-negative Staphylococci from bovine mastitis in Bundelkhand region	OBC	Awarded (2019)
3.	Ms. Smrati Sharma	Screening and evaluation of Anti-Parasitic Activities of some medicinal plants of Bundelkhand region	OBC	Ongoing
4.	Mr. Balbir Singh	Role of NAT-1 & NAT-2 gene polymorphism in the development of Cervical Cancer	SC	Ongoing
5.	Mr. Brijesh Shivhare	Protective effect of <i>Saraca indica</i> extract on lead induced toxicity in rat model	General	Ongoing
6	Ms. Suniti Yadav	Evaluation of antimicrobial and anticancerous effect of individual and composite plant extrac (phytochemical) of selected folk medicinal plants.	OBC	Ongoing
7	Ms. Oshin Verma	Development and Characterization of EMS (Ethyl methanesulfonate) induced mutants for understanding salinity tolerance in Berseem ( <i>Trifolium alexandrinum</i> )	SC	Ongoing

### **B. Masters (M.Sc. 6 months dissertation):**

<b>S. No.</b>	<b>Name of the student</b>	<b>Title</b>	<b>Degree awarded</b>	<b>Year</b>
1.	Ms.Vandana Singh	Study of phytochemical analysis of <i>Allium sativum</i> , <i>Allium cepa</i> and <i>Beta vulgaris</i> of Bundelkhand Region.	Yes	2017
2.	Ms.Butool Zehra	Phytochemical analysis of <i>Azadirachta indica</i> , <i>Coriander sativum</i> and <i>Daucus carota</i> of Bundelkhand Region.	Yes	2017
3.	Ms.Roshni Patwa	Phytochemical analysis of three important vegetables ( <i>Raphanus sativus</i> L. , <i>Chenopodium album</i> . L., <i>Spinacia Oleracia</i> L. of Bundelkhand Region.	Yes	2017
4.	Mrs.Laxmi Devi	Evaluation of Phytochemical constituents, Thin Layer Chromatography, Antioxidant Potential, Total Phenolic Content and Total Flavonoid Content of Aloe vera leaves extract	Yes	2018
5.	Mr.Suraj Kumar	Phytochemical screening, TLC profiling and antioxidant activity of <i>Trachyspermum ammi</i>	Yes	2018

	Arya	(Ajwain) seeds		
6.	Mr.Nagen dra Kumar	Estimation of Phytochemical, Antioxidant capacity, total phenolic and flavonoids contents of <i>Pisum sativum</i> and <i>Citrus reticulata</i>	Yes	2018
7.	Ms.Priyan ka Das	Drug eluting coronary stents	Yes	2018
8.	Mr.Vinay Kumar	Phytochemical analysis, Antioxidant capacity, total phenolic content and total flavonoid contents of <i>Madhuca indica</i> (Mahua)	Yes	2018
9.	Mr. Sandeep Kumar	Study of Antioxidant activity, Total flavonoid and Phenolic content of <i>Tamarindus indica</i> , <i>Musa acuminata</i> , and <i>Carica papaya</i>	Yes	2018
10.	Ms. Princy Gautam	Study the interaction of Aceclofenac with Human serum albumin	Yes	2018
11	Ms.Shikha Tiwari	Biochemical and molecular studies of some forage grasses and interspecific crosses between <i>Pennisetum glaucum</i> and <i>Pennisetum squamulatum</i>	Yes	2019
12	Mr. Babuji	To study the random blood sugar level & serum magnesium level in Psoriasis patients	Yes	2019
13	Ms.Manja ripriya Srivastav	Evaluation of the protective effects of Quercetin on the chlorpyrifos induced cytotoxicity & oxidative stress <i>in vitro</i> in rat peripheral blood lymphocytes	Yes	2019
14	Mr. Rishi Kant Verma	To study the effect of high density lipoprotein & calcium on the level of random blood sugar, BMI, and age in type-2 diabetes mellitus subject in Bundelkhand region	Yes	2019
15	Mr.Deepe ndra Sentiya	To study body mass index, random blood sugar, uric acid in type-2 diabetes mellitus in Bundelkhand region	Yes	2019
16	Mr. Neeraj Krishna	Interaction of Tizanidine with human serum albumin in aqueous medium	Yes	2019
17	Mr.Raghv endra Prajapati	To study fasting blood sugar, glycated hemoglobin & magnesium in type-2 diabetes mellitus	Yes	2019
18	Ms. Ruchi	To investigate the effect of limonene on the membrane of <i>Candida albicans</i>	Yes	2019
19	Riya Rawat	Study of antioxidant activity and phytochemical analysis of <i>Punica granatuni</i> and <i>Musa paradisiaca</i> of Bundelkhand Region	Yes	2020
20	Anju Kumari	Study of antioxidant activity and phytochemical analysis of <i>Pisum sativum</i> and <i>Madhuca longifolia</i> of Bundelkhand Region	Yes	2020
21	Ankita Dwivedi	Study of antioxidant activity and phytochemical analysis of <i>Citrus reticulata</i> and <i>Carica papaya</i> of	Yes	2020

		Bundelkhand Region		
22	Akriti	Phytochemical analysis and antioxidant activity of <i>Madhuca indica</i> and Rose leaves of Bundelkhand Region.	Yes	2020
23	M. Shiva	Evaluation of phytochemical constituents and antioxidant potential of Chickpea leaves.	Yes	2020

## **LIST OF PUBLICATIONS**

### **A. Papers Published:**

1. **Ramesh Kumar**, Madhav Bhatia, Kalpana Pai. Role of Chemokines in the Pathogenesis of Visceral Leishmaniasis **Current Medicinal Chemistry**. 2022, 29, 5441-5461. \*Corresponding Author (IF 4.184)
2. Brijesh Shivhare<sup>1</sup>, Ritu Solanki<sup>2</sup>, Maneesha Pandey<sup>1\*</sup>, **Ramesh Kumar**<sup>3</sup>. Antioxidant Capacity and Metabolic Characterization of Aqueous and Ethanolic Extraction of *Saraca indica*. Journal of Pharmacognosy and Phytochemistry. Accepted
3. Smrati Sharma, OshinVerma, & **Ramesh Kumar**. Phytochemical profiling, GC-MS analysis and antioxidant capacity of extracts of *Carica papaya* leaves. IJBPAS, September, 2022, 11(9): 4069-4079. \*Corresponding Author
4. Smrati Sharma & **Ramesh Kumar**. Free Radical Scavenging Activity and GC-MS Analysis of Methanolic Extract of *Ficus racemosa* L. Leaves of Bundelkhand Region. **J of Phytol Research**. 34(1):57-67, 2021 \*Corresponding Author
5. Smrati Sharma, OshinVerma, Laxmi Devi & **Ramesh Kumar**. Antioxidant Activity, Total Phenolic and Flavonoid Contents of *Aloe vera* Leaves Extract. (Accepted) **J of Phytol Research**. 34(1):49-56, 2021 \*Corresponding Author
6. Baleandra Singh and **Ramesh Kumar**. Comparative efficacy and validation of different diagnostic methods in detection of subclinical mastitis in farms of Bundelkhand. **J. Vet. Anim. Sci.** 2022, 53(2): 226-234.
7. Baleandra Singh and **Ramesh Kumar**. Spatial distribution of coagulase-negative staphylococci (CNS) in parts of Bundelkhand: Relevance to the high incidence of subclinical mastitis. **J. Farm Sci.** 2022, 35(1):100-107.
8. Dinesh Kumar, **Ramesh Kumar**, Akil Khan. GC-MS analysis of *Sapindus marginatus* seed extract in petroleum ether. **South Asian J Exp Biol.**, 2022, 12 (5): 767-773.
9. **Ramesh Kumar**, Smrati Sharma, Laxmi Devi, Vandana Singh Comparative *in vitro* investigation of Antioxidant Activity, Total Phenolics and Flavonoids Contents of *Daucus carot* and *Beta vulgaris* L. of Bundelkhand Region, India.

(Communicated) \*Corresponding Author

10. *In vitro* assessment of antioxidant activity, cytotoxicity and nephroprotective activity of Polyalthia longifolia aquaethanolic leaf extract against drug-induced toxicity on HEK293 cell line submitted to Asian Pacific Journal of Tropical Biomedicine.
11. Hussain, S., A. Singh, S. U. Nazir, S. Tulsyan, A. Khan, **R. Kumar**, N. Bashir, P. Tanwar and R. Mehrotra (2019). Cancer drug resistance: A fleet to conquer. **J Cell Biochem.** 2019,1-13. (IF 3.448)
12. Nazir, S. U., **R. Kumar**, Dil-Afroze, I. Rasool, B. Bondhopadhyay, A. Singh, R. Tripathi, N. Singh, A. Khan, P. Tanwar, U. Agrawal, R. Mehrotra and S. Hussain (2019). Differential expression of Ets-1 in breast cancer among North Indian population. **J Cell Biochem.** 2019;1-10. (IF 3.448)
13. Nazir, S. U., **R. Kumar**, A. Singh, A. Khan, P. Tanwar, R. Tripathi, R. Mehrotra and S. Hussain (2019). Breast cancer invasion and progression by MMP-9 through Ets-1 transcription factor. **Gene** 11: 143952. (IF 2.984)
14. Vandana Singh, **Ramesh Kumar\***. Study of Phytochemical Analysis and Antioxidant Activity of *Allium sativum* of Bundelkhand Region **Int. J. Life. Sci. Scienti. Res.,** 2017,3(6):1451-1458. \*Corresponding Author
15. Vandana Singh, **Ramesh Kumar\***. *In vitro* antioxidant and phytochemical analysis of methanolic and aqueous extract of *Allium cepa*. **Int J Recent Sci Res** 2017, 8(11), 21923-21928. \*Corresponding Author
16. **Kumar R**, Patwa R. Study of Phytochemical Constituents and Anti-oxidant Activity of *Spinacia oleracea* L. of Bundelkhand Region. **Int. J. Life. Sci. Scienti. Res.,** 2018; 4(1):1599-1604. \*Corresponding Author
17. **Ramesh Kumar\***, Dinesh Kumar, Roshni Patwa. Evaluation of phytochemical constituents and antioxidant activity of *Chenopodium album* of Bundelkhand region. **J of Pharmacy Research** 2018; 12(1), 81-86. \*Corresponding Author
18. Smrati Sharma **Ramesh Kumar\***. Antioxidant activity, TLC and phytochemical analysis of Ginger (*Zingiber Officinale* L.) rhizome. **An International Plant Archives.** 2018; 18: 210-214. \*Corresponding Author
19. Balendra Singh & **Ramesh Kumar**. Antimicrobial susceptibility of coagulase negative *Staphylococci* isolates from suspected cases of bovine subclinical mastitis in parts of Bundelkhand region. **Asian Pac J Health Sci.** 2018; 5(4): 100-107.
20. Balendra Singh & **Ramesh Kumar**. Prevalence of sub-clinical mastitis dominated by coagulase negative staphylococci sp. in bovines. **Int J Pharmacy and Bio Sci.**

2018; 8(1), 249-255.

21. **Ramesh Kumar\*** & Roshni Patwa. The antioxidant activity of *Raphanus sativus* L. of Jhansi district, Uttar Pradesh, India. **Int. Res. J. Pharm.** 2018; 9(1):98-102.  
\*Corresponding Author
22. **Ramesh Kumar\***, Dinesh Kumar, Smrati Sharama, Butool Zehra, A. Radhakrishna. PHYTOCHEMICAL COMPOSITION AND ANTIOXIDANT ACTIVITY OF *Coriandrum Sativum* OF BUNDELKHAND REGION. **International Journal of Pharmacy and Biological Sciences.** 2018; 8: 369-375.  
\*Corresponding Author
23. **Ramesh Kumar\***, Smrati Sharma, Laxmi Devi. Investigation of Total Phenolic, Flavonoid Contents and Antioxidant Activity from Extracts of *Azadirachta indica* of Bundelkhand Region. **Int. J. Life. Sci. Scienti. Res** 2018; 8: 369-375
24. Dinesh Kumar, Smrati Sharma and **Ramesh Kumar.** Free Radical Scavenging Activity of the Mixture of Different Medicinal Plants of Bundelkhand Region **WJPR** 2021, 10(2), 1008-19. \*Corresponding Author
25. **Ramesh Kumar\***, Madhav Bhatia, Kalpana Pai. Role of cytokines in the pathogenesis of Visceral Leishmaniasis **Clinical Laboratory.** 2017;63:1549-1559  
\*Corresponding Author (IF 1.224)
26. **Ramesh Kumar\***, Ritika Jain. Serum nitric oxide levels in subjects with high creatinine value in comparison of healthy control subjects. **International Journal of Bioassays** 5.11 (2016): 4993-4998. \*Corresponding Author
27. **Ramesh Kumar\***, Ritika Jain. Studies on serum nitric oxide levels in subjects with high bilirubin value in comparison of normal healthy control subjects. **International Journal of Bioassays** 5.3 (2016): 4870-4875. \*Corresponding Author
28. **Ramesh Kumar\*** and Madhav Bhatia\*. Cells and Mediators of Inflammation in Acute Pancreatitis. **Clinical Anti-Inflammatory & Anti-Allergy Drugs** 2014, 1, 11-23). Co-corresponding Author.
29. **Ramesh Kumar\*** and Madhav Bhatia\*. Role of macrophages and substance P in the pathogenesis of acute pancreatitis. **Immuno-Gastroenterology** 1:2, 90-99; October/November/December 2012. \* Co- Corresponding author
30. Madhu Kamle, Shahina Kalim, Anju Bajpai, Ramesh Chandra and **Ramesh Kumar.** *In vitro* Selection for Wilt Resistance in Guava (*Psidium guajava* L.) cv. Allahabad Safeda. **Biotechnology** 11(3) 163-171, 2012.
31. Pramod Kumar, **Ramesh Kumar**, Huashila Pandey, Shyam Sundar, Kalpana Pai.

- Studies on the arginase, 5'-nucleotidase and lysozyme activity by monocytes from visceral leishmaniasis patients. *Journal of Parasitic Diseases* 2012 April; 36(1): 19–25.
32. Madhu Kamle, Anju Bajpai, Ramesh Chandra, Shahina Kalim and **Ramesh Kumar**. Somatic embryogenesis for crop improvement. **GERF Bulletin of Biosciences** June 2011, 2(1):54-59.
  33. Vineet Varanasi, Hamid Mattoo, Nitin C. Tupperwar, Krishnamurthy Thyagarajan, Abhishek Das, **Ramesh Kumar**, Vineeta Bal, Tushar Vaidya, Anna George, and Satyajit Rath. A superantigen interacts with Leishmanial infection in Antigen-Presenting Cells to regulate cytokine commitment of responding CD4 T cells. *Journal of Infectious Disease* 2010 Oct; 202: 1234-45. **(IF 6.0)**
  34. Kiran Tripathi, **Ramesh Kumar**, Kalpana Bharti, Pramod Kumar, Raj Kamal Shrivastav, Shyam Sundar, Kalpana Pai. Adenosine deaminase activity in sera of patients with visceral leishmaniasis. *Clinica Chimica Acta* 2008 Feb; 388(1-2):135-8. **(IF 2.328)**
  35. **Kumar R\***, Pai K, Kumar P, Pandey HP, Sundar S. Sero-epidemiological study of kala-azar in a village of Varanasi district, India. *Trop Med Int Health*. 2006 Jan;11(1):41-8. **(IF 2.595)**
  36. Parameswaran N, Samuvel DJ, **Kumar R**, Thatai S, Bal V, Rath S, George A. Oral tolerance in T cells is accompanied by induction of effector function in lymphoid organs after systemic immunization *Infect Immun*. 2004 Jul;72(7):3803-11. **(IF 4.004)**
  37. **Kumar R**, Pai K, Pathak K, Sundar S. Enzyme-linked immunosorbent assay for recombinant K39 antigen in diagnosis and prognosis of Indian visceral leishmaniasis. *Clin Diagn Lab Immunol (CDLI)*. 2001 Nov; 8(6):1220-4. CDLI is Now CVI **(IF 2.598)**
  38. Sundar S, Pai K, **Kumar R**, Pathak-Tripathi K, Gam AA, Ray M, Kenney RT. Resistance to treatment in Kala-azar: speciation of isolates from northeast India. *Am J Trop Med Hyg*. 2001 Sep;65(3):193-6. **(IF 2.063)**
  39. **Kumar R**, Pai K, Sundar S. Reactive oxygen intermediates, nitrite and IFN-gamma in Indian visceral leishmaniasis. *Clin Exp Immunol*. 2001 May; 124(2):262-5. **(IF 2.747)**
  40. **Kumar R**, Kumar P, Chowdhary RK, Pai K, Mishra CP, Kumar K, Pandey HP, Singh VP, Sundar S. Kala-azar epidemic in Varanasi district, India. *Bull World Health Organ*. 1999;77(5):371-4. **(IF 5.029)**
  41. **Ramesh Kumar**, Pramod Kumar, Haushila Pandey, Shyam Sundar and Kalpana



Pai Circulating nitric oxide and interferon-gamma levels in Indian visceral leishmaniasis. (communicated)

42. **Ramesh Kumar\***, Kalpana Pai, Madhav Bhatia. Treatment and Mechanism of drug resistance in Visceral Leishmaniasis. (Communicated)

**B. Books:**

1. A Text Book of Practical Biochemistry 2021
2. Complete Viva in Biochemistry 2021
3. A Text Book of Basic Immunology (Under Preparation)

**C. Papers Published and Presented in the Conferences:**

1. Smrati Sharma, Sidhanshu Kumar, Aditi Goswami, **Ramesh Kumar**. Anti inflammatory and antioxidant activity of green synthesized silver nanoparticles using *Phyllanthus emblica* leaves. **Submitted Indian Science Congress**
2. Aditi Goswami, Sidhanshu Kumar, Smrati Sharma, **Ramesh Kumar**. Phytochemical screening of aqueous and methanolic extracts of *Mentha piperita* growing in Bundelkhand Region. **Submitted Indian Science Congress**
3. Smrati Sharma, Prashant Kushwaha, Sidhanshu Kumar, **Ramesh Kumar**. *In vitro* Antioxidant and free radicals scavenging activity of *Phyllanthus emblica* Leaves growing in Bundelkhand region. International Conference on Recent Advances in Material and Chemical Sciences (ICRAMS-2022), Department of Chemistry, Bundelkhand University, Jhansi, UP 3-6 Nov., 2022. Page 51
4. Suniti Yadav and **Ramesh Kumar**. GC-MS Analysis and Antifungal Activity of Methanolic Extract of *Chlorophytum borivillianum* root. International Conference on Recent Advances in Material and Chemical Sciences (ICRAMS-2022), Department of Chemistry, Bundelkhand University, Jhansi, UP 3-6 Nov., 2022. Page 69
5. Brijesh Shivhare, Maneesha Pandey and **Ramesh Kumar**. Antioxidant potential and *in vitro* study of *Saraca indica* extract on lead induced toxicity in HepG2 and HEK293 cell lines. 2nd International Conference on Natural Products and Human Health-2022 (2nd ICNPHH-2022) November 4-6, 2022 Deshbandhu College, Kalkaji, New Delhi.
6. Suniti Yadav, Oshin Verma, Anand Kumar Pandey, **Ramesh Kumar**. In-silico and *in-vitro* study of antibacterial activity of *Carissa carandas* extract. Janayitri-2022 A National Conference on "Ayurveda and Contemporary Perinatal Care" (NCACPC-2022) 22 & 23 June 2022. Jointly Organized by Department of Kaumarbhritya Prasuti Tantra, Kriya Sharir and Ayurveda Network Faculty of Ayurveda, IMS BHU Varanasi.
7. Suniti Yadav and **Ramesh Kumar**. *In vitro* antimicrobial and antioxidant activity of methanol extract of *Swertia chirata*. International Conference on Agriculture Science and Technology: Challenges and Prospects (**AST-2022**), Rani Lakshmi Bai Central Agricultural University, Jhansi, (Uttar Pradesh) 28-30 April, 2022. Page no 152.

8. Oshin Verma, Smrati Sharma, Tejveer Singh, Radhakrishna Auji, **Ramesh Kumar**. Antioxidant and Anti-inflammatory activity of green synthesized silver nanoparticles using *Trifolium alexandrinum* leaves extract. International Conference on Agriculture Science and Technology: Challenges and Prospects (AST-2022), Rani Lakshmi Bai Central Agricultural University, Jhansi, (Uttar Pradesh) 28-30 April, 2022. Page no. 15
9. Suniti Yadav and **Ramesh Kumar** "Evaluation of the antioxidant and anti-inflammatory activity of methanol extract of *Carissa carandas*" International Conference on Biotechnological Initiatives for Climate Resilient Agriculture-2022 (BICRA-2022) Organized by Department of Agricultural Biotechnology & Molecular Biology, Dr. Rajendra Prasad Central Agricultural University Pusa, Samastipur-848125, Bihar, India (January 7-9, 2022)
10. Oshin Verma, Smrati Sharma, Tejveer Singh, Radhakrishna Auji, **Ramesh Kumar**. Synthesis, Characterization and Anti-rhizobial activity of silver nanoparticles using *Trifolium alexandrinum* leaves extract. International Conference on Biotechnological Initiatives for Climate Resilient Agriculture-2022 (BICRA-2022) Organized by Department of Agricultural Biotechnology & Molecular Biology, Dr. Rajendra Prasad Central Agricultural University Pusa, Samastipur-848125, Bihar, India (January 7-9, 2022)
11. Balbir Singh, D. Nath, **Ramesh Kumar**. Role of genetic and environmental factors in development of cervical cancer. National Conference on Science and Technology in Environmental Management (STEM-2020). Organized by: Society for Green World and Sustainable Development, Jhansi (UP) 284001 at Bipin Bihari College, Jhansi-284001 (UP) India. February 22-23, 2020. Page no. 147.
13. **Ramesh Kumar & Vanadana Singh**. Antioxidant activity of selected vegetables grown in Bundelkhand Region. ISNSCON 2019 organized by University of Delhi and Jamia Hamdard University, New Delhi
14. **Smrati Sharma & Ramesh Kumar**. Comparative in vitro investigation antioxidant activity, total phenolics and flavonoids contents *Aegle marmelos* & *Cariaya papaya* leaves of Bundelkhand Region. ISNSCON 2019 organized by University of Delhi and Jamia Hamdard University, New Delhi
15. **Laxmi & Ramesh Kumar**. Evaluation of phytochemical constituents and antioxidant potential of aloe-vera leaves **BIOFUTURITY-2018** organized by Department of Biotechnology Engineering, IET, Bundelkhand University, Jhansi
16. **Sandeep Kumar & Ramesh Kumar**. Evaluation of in vitro antioxidant potential and phytochemical constituents of *Tamarindus indica* **BIOFUTURITY-2018** organized by Department of Biotechnology Engineering, IET, Bundelkhand University, Jhansi
17. **Smrati Sharma & Ramesh Kumar**. Study of phytochemical constituents, TLC & antioxidant potential of papaya (*Carica papaya* L.) leaves **BIOFUTURITY-**

- 2018 organized by Department of Biotechnology Engineering, IET, Bundelkhand University, Jhansi
18. **Suraj Kumar Arya, M Shiva & Ramesh Kumar.** Phytochemical screening and antioxidant activity of *Trachyspermum ammi* (ajwain) seeds **BIOFUTURITY-2018** organized by Department of Biotechnology Engineering, IET, Bundelkhand University, Jhansi
  19. **Suraj Kumar Arya, Nagendra Kumar & Ramesh Kumar.** Phytochemical screening, TLC profiling and antioxidant activity of *Piper nigrum*. **BIOFUTURITY-2018** organized by Department of Biotechnology Engineering, IET, Bundelkhand University, Jhansi
  20. **Vinay Kumar & Ramesh Kumar.** Antioxidant activity of methanolic extract of leaves and bark of *Madhuca longifolia* of Jhansi district. **BIOFUTURITY-2018** organized by Department of Biotechnology Engineering, IET, Bundelkhand University, Jhansi
  21. Balbir Singh, D. Nath, **Ramesh Kumar.** Study of genetic susceptibility factors in progression of cervical cancer. FORENSICON-2019 organized by Dr. APJ Abdul Kalam, Institute of Forensic Science & Criminology, Bundelkhand University, Jhansi, UP. Feb. 21-22, 2019.
  22. Balbir Singh, D. Nath, Ramesh Kumar, Sanjaya Sharma. Study of etiology and progression of carcinoma of cervix: Prevention and diagnostics technique. **(ICBTM-2019) Organised by** Centre for Global Health, Hansraj College, University of Delhi, Delhi, India & Loyola University Chicago Stritch School of Medicine, USA. Feb. 25-26, 2019.
  23. Smrati Sharma and **Ramesh Kumar.** Antioxidant Activity, TLC and Phytochemical analysis of Ginger (*Zingiber Officinale* L.) Rhizome. **ICAAAS-2018, New Delhi, INDIA** April 28-29, 2018
  24. Vandana Singh and **Ramesh Kumar.** Study of Phytochemical constituents and antioxidant activity of *Beta vulgaris*. Amrita Samyogam 2017-International Conference on Integrative Ayurveda and Modern Medicine **organized by** Amrita Institute of Medical Sciences, Kochi, Kerala, August 6-7, 2017.
  25. Roshni Patwa and **Ramesh Kumar.** Phytochemical analysis of aqueous and methanolic extracts of Raphanus sativus of the Bundelkhand region. LUSCON-2017 **organized by** Department of Environmental Microbiology, Dr. B R Ambedkar University, Lucknow
  26. Vandana Singh and **Ramesh Kumar.** Phytochemical analysis of aqueous and methanolic extracts of *Allium sativus* leaves (Garlic) of the Bundelkhand region. LUSCON-2017 **organized by** Department of Environmental Microbiology, Dr. B R Ambedkar University, Lucknow
  27. Butool Zehra and **Ramesh Kumar.** Phytochemical analysis of Azadirachta indica (Neem) of the Bundelkhand region. LUSCON-2017 **organized by** Department of Environmental Microbiology, Dr. B R Ambedkar University, Lucknow
  28. Ritika Jain and **Ramesh Kumar.** Evaluation of Nitrite and Nitrate Levels in subjects with different Pathological conditions in comparison of normal control subjects. 41<sup>st</sup> Annual Conference of Indian Immunology Society **organized by** Department of Immunology, Madurai Kamraj University, held at Madurai, Tamil Nadu (12<sup>th</sup> Dec.-14<sup>th</sup> Dec. 2014).

29. **Ramesh Kumar.** New Strategies for Vaccine Development. Genetics of Human Diseases **organized by** Central University of Kerala, Kasaragod between 3<sup>rd</sup> & 4<sup>th</sup> Nov. 2016.
30. **Ramesh Kumar.** *In vitro* antigen-antibody interactions and their applications and diagnosis. **National Symposium on Frontiers in Modern Biology organized by Department of Zoology, School of Biological Sciences, Dr. Harisingh Gour Central University, Sagar (MP), India March 24-25, 2014.**
31. **Ramesh Kumar, Kalpana Pai, Shyam Sundar.** RK39 antigen for the diagnosis and prognosis of Indian Visceral Leishmaniasis. **40<sup>th</sup> Annual Conference of Indian Immunology Society organized by Department of Biochemistry, University College of Medical Sciences, Delhi University, held at Delhi (15<sup>th</sup> Nov.-17<sup>th</sup> Nov. 2012).**
32. **Ramesh Kumar.** Serum nitric oxide levels in subjects with high bilirubin value in comparison of normal healthy control subjects. **15<sup>th</sup> International Congress of Immunology, Milan, Italy/August 22-27/2013**
33. **Ramesh Kumar, Ritika Jain, Kalpana Pai.** Serum nitric oxide levels in subjects with high creatinine value in comparison of healthy control subjects. **39<sup>th</sup> Annual Conference of Indian Immunology Society organized by Department of Pathology, Institute of Medical Sciences, BHU, held at Varanasi (9<sup>th</sup> Nov.-11<sup>th</sup> Nov. 2012).**
34. **Ramesh Kumar, Kalpana Pai, Haushila Prasad Pandey, Shyam Sundar.** Sero-epidemiological study of visceral leishmaniasis in a village of Varanasi District, Uttar Pradesh. **1<sup>st</sup> Biennial National Conference organized by Indian Academy of Science & Nature in Association with Department of Life Sciences, Agra College, Agra and National JALMA Institute for Leprosy & Other Mycobacterial Diseases (ICMR), held at Agra (30<sup>th</sup> Nov. to 1<sup>st</sup> Dec. 2011).**
35. **Ramesh Kumar, Kalpana Pai, Shyam Sundar.** Studies on hydrogen peroxide and superoxide anion production by monocytes from visceral leishmaniasis patients. **National Seminar on “Reactive Oxygen Species: Roles in Animal and Plant Biology” held at Department of Biochemistry, Lucknow University, Lucknow (23<sup>rd</sup> to 24<sup>th</sup> Dec. 2011).**
36. **Ramesh Kumar, Kalpana Pai, Shyam Sundar.** Evaluation of reactive oxygen species, nitrite and interferon-gamma from kala-azar patients. **16-18 December, 34<sup>th</sup> Indian Immunology Society, Pune.**
37. **Kalpana Pai, Pramod Kumar, Ramesh Kumar, Shyam Sundar.** Studies on the arginase, 5'-nucleotidase and lysozyme activity by monocytes from visceral leishmaniasis patients. **EMBO Workshop. Human Evolution and Disease. December 6-9, 2006, page 17. Centre for Cellular and Molecular Biology, Hyderabad, India.**
38. **Kumar R., et al.** Epidemiology of Kala-Azar in a village. **85<sup>th</sup> Indian Science Congress Association. 3-8 January 1998, Hyderabad, India.**
39. **Kumar P., Pandey H.P., Kumar R., Pai K., and Sundar S.** A simple and economical direct agglutination test (DAT) for diagnosis of Indian Kala-azar. **85<sup>th</sup> Indian Science Congress Association. 3-8 January 1998, Hyderabad, India.**

### **CONFERENCE/WORKSHOP/SYMPOSIA/REFRESHER COURSE ATTENDED**

1. Attended GIAN course titled “Immunology and Vector Biology of Leishmaniasis” from 18th February to 22nd February 2019 at Department of Zoology, Savitribai Phule Pune University, Pune.
2. Attended 21 days SUMMER TRAINING PROGRAMME ON “Livestock products quality and safety assurance by advanced microbiological and spectrometry approaches” dated 31 July to 20 Aug, 2018 organized by ICAR-CIRG, Mathura, Uttar Pradesh.
3. Attended and delivered a talk on “**New Strategies for Vaccine Development**” in a National Conference on Genetics of Human Diseases held at **Central University of Kerala, Kasaragod** between 3<sup>rd</sup> & 4<sup>th</sup> Nov. 2016.
4. **Attended and participated the “6<sup>th</sup> Workshop on Bioinformatics and Molecular Modeling in Drug Design”** which was organized by Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi during 21-23 January 2016.
5. Attended **Refresher Course** at JNU, New Delhi during 20<sup>th</sup> July 2015 to 14<sup>th</sup> August 2015.
6. Attended the training Workshop organized by iGroup Infotech India Pvt. Ltd. at Bundelkhand University, Jhansi on 6<sup>th</sup> December, 2014.
7. 41<sup>st</sup> Annual Conference of Indian Immunology Society organized by Department of Immunology, Madurai Kamraj University, held at Madurai, Tamil Nadu (12<sup>th</sup> Dec.-14<sup>th</sup> Dec. 2014).
8. Attended Faculty Development Programme held at Bundelkhand University, Jhansi from 1<sup>st</sup> to 7<sup>th</sup> Sept., 2014.
9. Attended and participated in a 7 day workshop on **Research Methodology** organized by Bundelkhand University, Jhansi Feb. 20-26, 2014.
10. **National Training Course On Application of Nanotechnology in Agriculture March 10 – March 19, 2014 Organized by Central Arid Zone Research Institute (CAZRI) Jodhpur** (Indian Council of Agricultural Research) Jodhpur-342 003, Rajasthan, India.
11. National Symposium on Frontiers in Modern Biology organized by Department of Zoology, School of Biological Sciences, Dr. Harisingh Gour Central University, Sagar (MP), India March 24-25, 2014.
12. BIOFUTURITY: Current Scenario and future trends in Biotechnology organized by Department of Biotechnology Engineering, Institute of Engineering and Technology, Bundelkhand University, Jhansi. Attended as Chairperson.

13. 6<sup>th</sup> Bangalore India Nano, Bangalore, India 4-6 December 2013.
14. 40<sup>th</sup> Annual Conference of Indian Immunology Society organized by Department of Biochemistry, University College of Medical Sciences, Delhi University, held at Delhi (15<sup>th</sup> Nov.-17<sup>th</sup> Nov. 2013).
15. 15<sup>th</sup> International Congress of Immunology, Milan, Italy/August 22-27/2013.
16. 39<sup>th</sup> Annual Conference of Indian Immunology Society organized by Department of Pathology, Institute of Medical Sciences, BHU, held at Varanasi (9<sup>th</sup> Nov.-11<sup>th</sup> Nov. 2012).
17. Participated in the Inter University Earth Inspire Camp organized by Department of Geology, Bundelkhand University, Jhansi during 22-23 April, 2012.
18. Participated in one day National Symposium on “New Horizon in Basic and Clinical Research” organized by Society of Young Scientists, AIIMS, New Delhi on 16<sup>th</sup> April, 2012.
19. National Seminar on “Reactive Oxygen Species: Roles in Animal and Plant Biology” held at Department of Biochemistry, Lucknow University, Lucknow (23<sup>rd</sup> to 24<sup>th</sup> Dec. 2011).
20. 1<sup>st</sup> Biennial National Conference organized by Indian Academy of Science & Nature in Association with Department of Life Sciences, Agra College, Agra and National JALMA Institute for Leprosy & Other Mycobacterial Diseases (ICMR), held at Agra (30<sup>th</sup> Nov. to 1<sup>st</sup> Dec. 2011).
21. Participated and delivered a lecture on “stem cells and its applications” in “KEPLER” held at Department of Biochemistry, Bundelkhand University, Jhansi (28<sup>th</sup> to 29<sup>th</sup> Feb. 2009).
22. Participated and delivered a lecture in “Recent Trends in Modern Biology” held at Department of Zoology, University of Pune, Pune (13<sup>th</sup> March to 15<sup>th</sup> March 2008).
23. 34<sup>th</sup> Annual Conference of Indian Immunology Society organized by NIV, Pune held at Pune (16-18 December, 2007)
24. Participated in the Workshop “Scientific Writing & Communication Skills” during 26-28 Jan, 2007 held at Department of Zoology, University of Pune, Maharashtra.
25. WHO Sponsored Training on Management of Kala-Azar Cases, for Physicians, Pediatricians and Medical officers of Nepal, Institute of Medical Sciences, Banaras Hindu University, 24-29 May, 1999, Held at Varanasi and Muzaffarpur, India.
26. 85<sup>th</sup> Indian Science Congress Association, 3-7 January 1998, held at Osmania University, Hyderabad, India.

27. International Symposium on Leishmaniasis Research, 24-25 March 1996, held at Institute of Medical Sciences, Banaras Hindu University, Varanasi, India.

**CONFERENCE/WORKSHOP/SYMPOSIA/REFRESHER COURSE ORGANIZED**

1. Organized a National Conference on “**Medicinal Plants: Diversity, Conservation, Therapeutic Potential and Human Welfare**” dated 25<sup>th</sup> March, 2015 as Convener and Organizing Secretary, sponsored by UGC, New Delhi.
2. Organized a workshop on “**Role of Biochemistry in Health, Medicine and Agriculture sector**” on 6<sup>th</sup> Nov.2017 as Organizing Secretary, Department of Biochemistry, Bundelkhand University, Jhansi.
3. Organized “**World Malaria day: Ready to Beat Malaria**” on 25<sup>th</sup> April 2018 as Organizing Secretary, Department of Biochemistry, Bundelkhand University, Jhansi.
4. Organized 3 days Summer Training “**Hands on Practical Training in Biochemistry**” 12,14,15 May 2018 as Organizing Secretary, Department of Biochemistry, Bundelkhand University, Jhansi.

**Foreign Travel Grant received:**

1. University Grant Commission, India (through unassigned University Grant) to deliver an invited lecture in a conference held at Shanghai, China (18-20 March, 2011).
2. AAI Travel Grants, Immunology foundation, and CSIR, New Delhi to attend the conference held at Milan, Italy (August 22-27, 2013).

**Membership of National and International Bodies-:**

**National:**

1. The Indian Immunology Society
2. The Indian Society for Parasitology
3. Society for Biological Chemists, India

**International:** Nil

**Sponsored Research Project: As Principal Investigator:**

Year of funding	Sponsoring Organization	Title of Project	Amount of Grant (Lacs)
2011 (3Yrs)	DST	The activity of edelfosine against <i>Leishmania donovani</i> (the causative agent of Indian Kala-azar)	24.00
2012 (3Yrs)	ICMR	The effect of Cisplatin (an anti-cancer drug) on <i>Leishmania donovani</i> both in vitro and in vivo	31.00

**DETAILS OF FORREIGN VISIT:**

S.No.	Designation	Univ/Institute	Nature of duty	Period
1.	Post Doctoral Fellow	Colorado State University, USA	Research	2000-2001
2.	Research Scientist	Tan Tock Seng Hospital, Singapore	Research	2003-2005
3.	Research Fellow	National University Singapore, Singapore	Research	2005-2005
4.	Reader	Bundelkhand University, Jhansi	To attend the conference held at Shanghai, China	4 days (2011)
5.	Associate Prof	Bundelkhand University, Jhansi	To attend the conference held at Milan, Italy	6 days (2013)

### **Invited lectures delivered in Symposia/Conferences**

\* Delivered a lecture in “Recent Trends in Modern Biology” held at Department of Zoology, University of Pune, Pune (13<sup>th</sup> March to 15<sup>th</sup> March 2008).

\* Delivered a lecture on “stem cells and its applications” in “KEPLER” held at Department of Biochemistry, Bundelkhand University, Jhansi (28<sup>th</sup> Feb-29<sup>th</sup> Feb 2009).

\* Delivered an invited lecture in a conference held at Shanghai, China (18-20 March, 2011)

### **COMPUTER SKILLS:**

MS-WORD,MS-EXCEL, Origin, Cricket Graph. Power Point.

### **RESEARCH INTEREST:**

\* Immunology

\* Parasitology (Leishmaniasis)

\* Inflammatory diseases

\* Autoimmunity

\* Oral tolerance

\* Medicinal plants with special reference to antioxidant activity, anti-microbial activity, etc.

\* Synthesis and characterization of nanoparticles and evaluation of its activity against pathogens