

Curriculum Vitae

Name: Dr. Ramesh Kumar
Sex: Male
Date of Birth: January 17th, 1971

Correspondence Address

Dr. Ramesh Kumar
Assoc. Prof. & Ex-Head
Department of Biochemistry,
Bundelkhand University,
Jhansi- 284 128 (U.P.)
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Nationality: Indian

Marital Status: Married

Educational Qualifications:

Ph.D.

* 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 (15th Sept. 2008-till date)

* Head, Department of Biochemistry, Bundelkhand University, Jhansi (U.P.), India (August 2009-28th August 2012)

CONFERENCE/WORKSHOP/SYMPOSIA/REFRESHER COURSE ATTENDED

1. **Attended and participated the “6th 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.
2. Attended **Refresher Course** at JNU, New Delhi during 20th July 2015 to 14th August 2015.
3. Attended the training Workshop organized by iGroup Infotech India Pvt. Ltd. at Bundelkhand University, Jhansi on 6th December, 2014.
4. 41st Annual Conference of Indian Immunology Society organized by Department of Immunology, Madurai Kamraj University, held at Madurai, Tamil Nadu (12th Dec.-14th Dec. 2014).
5. Attended Faculty Development Programme held at Bundelkhand University, Jhansi from 1st to 7th Sept., 2014.
6. Attended and participated in a 7 day workshop on **Research Methodology** organized by Bundelkhand University, Jhansi Feb. 20-26, 2014.
7. **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.
8. 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.
9. 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.
10. 6th Bangalore India Nano, Bangalore, India 4-6 December 2013.
11. 40th Annual Conference of Indian Immunology Society organized by Department of Biochemistry, University College of Medical Sciences, Delhi University, held at Delhi (15th Nov.-17th Nov. 2013).
12. 15th International Congress of Immunology, Milan, Italy/August 22-27/2013.
13. 39th Annual Conference of Indian Immunology Society organized by Department of Pathology, Institute of Medical Sciences, BHU, held at Varanasi (9th Nov.-11th Nov. 2012).

14. Participated in the Inter University Earth Inspire Camp organized by Department of Geology, Bundelkhand University, Jhansi during 22-23 April, 2012.
15. Participated in one day National Symposium on “New Horizon in Basic and Clinical Research” organized by Society of Young Scientists, AIIMS, New Delhi on 16th April, 2012.
16. National Seminar on “Reactive Oxygen Species: Roles in Animal and Plant Biology” held at Department of Biochemistry, Lucknow University, Lucknow (23rd to 24th Dec. 2011).
17. 1st 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 (30th Nov. to 1st Dec. 2011).
18. Participated and delivered a lecture on “stem cells and its applications” in “KEPLER” held at Department of Biochemistry, Bundelkhand University, Jhansi (28th to 29th Feb. 2009).
19. Participated and delivered a lecture in “Recent Trends in Modern Biology” held at Department of Zoology, University of Pune, Pune (13th March to 15th March 2008).
20. Participated in the Workshop “Scientific Writing & Communication Skills” during 26-28 Jan, 2007 held at Department of Zoology, University of Pune, Maharashtra.
21. 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.
22. 85th Indian Science Congress Association, 3-7 January 1998, held at Osmania University, Hyderabad, India.
23. International Symposium on Leishmaniasis Research, 24-25 March 1996, held at Institute of Medical Sciences, Banaras Hindu University, Varanasi, India.

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).

DETAILS OF FOREIGN 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)

EXAMINERSHIP/PATENTS/etc

- Head, Department of Biochemistry, Bundelkhand University, Jhansi (August 2009)
- 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 at Moradabad to conduct the CPMT (Medical Examination)

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 (in Lacs)
2011	DST	The activity of edelfosine against <i>Leishmania donovani</i>	24.00
2012	ICMR	The effect of Cisplatin (an anti-cancer drug) on <i>Leishmania donovani</i>	31.00

LIST OF PUBLICATIONS

A. Papers Published:

- 1. 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
- 2. Ramesh Kumar***, Madhav Bhatia, Kalpana Pai. Role of cytokines in the pathogenesis of Visceral Leishmaniasis **Clinical Anti-inflammatory & Anti-Allergy Drugs** (under review).
*Co-corresponding Author
- 3. Ramesh Kumar***, Kalpna Pai, Madhav Bhati. Role of chemokines in visceral leishmaniasis: An update. (communicated).
*Corresponding author
- 4. Ramesh Kumar***, Kalpana Pai, Madhav Bhatia. Treatment and Mechanism of drug resistance in Visceral Leishmaniasis. (Communicated)
*Corresponding Author
- 5. Ramesh Kumar***, Ritika Jain, Kalpana Pai, Madhav Bhatia. Serum nitric oxide levels in subjects with high creatinine value in comparison of normal healthy control subjects. **International Journal of Pharmaceutical Sciences and Research .** (Communicated)
* Corresponding author
- 6. 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.**
- 7. Ramesh Kumar**, Pramod Kumar, Haushila Pandey, Shyam Sundar and Kalpana Pai Circulating nitric oxide and interferon-gamma levels in Indian visceral leishmaniasis. **BioMed Research International** (communicated)
- 8. 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
9. 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.
 10. 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.
 11. 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.
 12. 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.
(Impact Factor 6.0)
 13. 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.
(Impact Factor 2.328)
 14. **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)
 15. 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)
 16. **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 1.809)
 17. 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)

18. **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)

19. **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)

B. Papers Published and Presented in the Conferences:

20. **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.**

21. **Ramesh Kumar**, Kalpana Pai, Shyam Sundar. RK39 antigen for the diagnosis and prognosis of Indian Visceral Leishmaniasis. **40th Annual Conference of Indian Immunology Society organized by Department of Biochemistry, University College of Medical Sciences, Delhi University, held at Delhi (15th Nov.-17th Nov. 2012).**

22. **Ramesh Kumar**. Serum nitric oxide levels in subjects with high bilirubin value in comparison of normal healthy control subjects. **15th International Congress of Immunology, Milan, Italy/August 22-27/2013**

23. **Ramesh Kumar**, Ritika Jain, Kalpana Pai. Serum nitric oxide levels in subjects with high creatinine value in comparison of healthy control subjects. **39th Annual Conference of Indian Immunology Society organized by Department of Pathology, Institute of Medical Sciences, BHU, held at Varanasi (9th Nov.-11th Nov. 2012).**

24. **Ramesh Kumar**, Kalpana Pai, Haushila Prasad Pandey, Shyam Sundar. Sero-epidemiological study of visceral leishmaniasis in a village of Varanasi District, Uttar Pradesh. **1st 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 (30th Nov. to 1st Dec. 2011).**

25. **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 (23rd to 24th Dec. 2011).**

- 26. Ramesh Kumar, Kalpana Pai, Shyam Sundar.** Evaluation of reactive oxygen species, nitrite and interferon-gamma from kala-azar patients. **16-18 December, 34th Indian Immunology Society, Pune.**
- 27. 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.**
- 28. Kumar R., et al.** Epidemiology of Kala-Azar in a village. **85th Indian Science Congress Association. 3-8 January 1998, Hyderabad, India.**
- 29. 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. **85th Indian Science Congress Association. 3-8 January 1998, Hyderabad, India.**

Invited lectures delivered in Symposia/Conferences

- * Delivered a lecture in "Recent Trends in Modern Biology" held at Department of Zoology, University of Pune, Pune (13th March to 15th March 2008).
- * Delivered a lecture on "stem cells and its applications" in "KEPLER" held at Department of Biochemistry, Bundelkhand University, Jhansi (28th Feb-29th Feb 2009).
- * Delivered an invited lecture in a conference held at Shanghai, China (18-20 March, 2011)

RESEARCH INTEREST:

- * Immunology
- * Parasitology (Leishmaniasis)
- * Inflammatory diseases
- * Autoimmunity
- * Oral tolerance