

CURRICULUM VITAE

Dr.AJAY AMIT

Assistant Professor

Department of Forensic Science.

Guru Ghasidas Central University.

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Specialization:

Host-parasite interaction, Cytokine Biology, Immunology, Parasitology, Molecular Biology.

Current Area of Interest.

Role of Cytokines in Forensic science, Serology, Forensic Immunology.

ACHIEVEMENTS:

- Cleared **CSIR-UGC NET**(2010).
- Elucidated the vaccine potential of *Leishmania donovani* protein disulfide isomerase (*LdPDI*).

EDUCATIONAL QUALIFICATIONS:

Degree	Subject	Year	University/Board	Marks/Remarks
Ph.D.	Biotechnology	2013-2018	Calcutta University	Awarded
M.Sc.	Biotechnology	2006	Amity Institute of Biotechnology, Amity University Uttar Pradesh, NOIDA (UP)	65.5%
B.Sc. (H)	Biotechnology	2004	Amity Institute of Biotechnology, C.C.S.University, Meerut (UP)	66.4%

WORK EXPERIENCE:

1. Working as Post-Doc fellow at **St.Michael's Hospital, University of Toronto**,2018-2019.
2. Worked as **Assistant Professor** (Ad-hoc) in Department of Biotechnology,**Guru Ghasidas Vishwavidyalaya(Central University), Bilaspur (CG)**,2016-2017 .
3. Worked as **CSIR-UGC Senior Research Fellow (SRF)**,at Division of Immunology, Rajendra Memorial Research Institute of Medical Sciences (**RMRIMS**), Agamkuan, Patna, Bihar,2012 -2015.
4. Worked as **CSIR-UGC Junior Research Fellow (JRF)**at Division of Immunology, Rajendra Memorial Research Institute of Medical Sciences (**RMRIMS**), Agamkuan, Patna, Bihar, 2010-2012.
5. Worked as **District Manager in Biogenixmedsystem Pvt. Ltd** ,2008-2009.
6. Worked as **Product executive in Biogene India**, 2007-2008.
7. Worked as **Technical sales executive in Biogenuix**, **2006-2007**.

MAJOR PUBLICATIONS in International peer reviewed journal:(Scopus, H-Index-10.)

1. Singh, AK., Das, VNR., Amit, A.....Bimal, S. Cytokines and chemokines differentially regulate innate immune cell trafficking during post kala-azar dermal leishmaniasis. *Journal of cellular biochemistry* 119 (9), 7406-7418, 2018(**IF: 3.446**)
2. Suman, SS., Amit, A,.....Ali, V. Cytosolic trypanothione of *Leishmania donovani* modulates host immune response in Visceral Leishmaniasis. *Cytokine* 108, 1-8, 2018. (**IF 2.940**)
3. Kumar, A., Dikhit, M. R., **Amit, A...**Bimal., S. Immunomodulation induced through ornithine decarboxylase DNA immunization in Balb/c mice infected with *Leishmania donovani*. *Molecular immunology* 97, 33-44, 2018. (**IF: 3.375**)
4. Dikhit, M. R., Mahantesh, V., Kumar, A., **Amit, A.**, Dehury, B., Ansari, M., ... & Das, P. Mining the proteome of *Leishmania donovani* for the development of novel MHC class I restricted epitope for the control of visceral leishmaniasis. *Journal of Cellular Biochemistry*. 119 (1), 378-391, 2018 (**IF: 3.446**).

5. Dikhit, M. R., **Amit, A.....Bimal, S.** Vaccine potential of HLA-A2 epitopes from Leishmania cysteine protease type III (CPC). *Parasite immunology* 39 (9), e12451, 2017. (IF-2.836).
6. Chaudhary, R., Amit, A.,.....Bimal, S. A New vaccine strategy of dendritic cell presented kinetoplastid membrane (KMP-11) as immunogen for control against experimental Visceral Leishmaniasis. *Modern research in inflammation*, 6 (03), 15, 2017. (IF-0.6)
7. Mahantesh, V., **Amit, A.**, Dikhit, M. R., Singh, A. K., Venkateshwaran, T., Das, V. N. R., ... & Bimal, S. (2017). Immuno-informatics based approaches to identify CD8+ T cell epitopes within the Leishmania donovani 3-ectonucleotidase in cured visceral leishmaniasis subjects. *Microbes and Infection*.(IF- 2.291)
8. Vijayamahantesh, **Amit A**, Dikhit MR, Mishra A, Singh AK, Das VN, Das P, Bimal S. Adenosine generated by ectonucleotidases modulates the host immune system during visceral leishmaniasis. *Cytokine*. 2017 Jan 9;91:170-179. doi:10.1016/j.cyto.2017.01.001. [Epub ahead of print] PubMed PMID: 28082236. (IF- 2.940)
9. **Amit A**, Vijayamahantesh, Dikhit MR, Singh AK, Kumar V, Suman SS, Singh A, Kumar A, Thakur AK, Das VR, Das P, Bimal S. Immunization with Leishmania donovani protein disulfide isomerase DNA construct induces Th1 and Th17 dependent immune response and protection against experimental visceral leishmaniasis in Balb/c mice. *Mol Immunol*. 2017 Feb;82:104-113. doi: 10.1016/j.molimm.2016.12.022. PubMed PMID: 28064069. (IF- 3.375)
10. Dikhit MR, Ansari MY, Vijaymahantesh, Kalyani, Mansuri R, Sahoo BR, Dehury B, **Amit A**, Topno RK, Sahoo GC, Ali V, Bimal S, Das P. Computational prediction and analysis of potential antigenic CTL epitopes in Zika virus: A first step towards vaccine development. *Infect Genet Evol*. 2016 Nov;45:187-197. doi:10.1016/j.meegid.2016.08.037. PubMed PMID: 27590716. (IF- 2.591)
11. Vijayamahantesh, **Amit A**, Dikhit MR, Pandey RK, Singh K, Mishra R, Das VN, Das P, Bimal S. Elevated Serum ADA Activity as a Marker for Diagnosis and Prognosis of Visceral Leishmaniasis and Post Kala-Azar Dermal Leishmaniasis in Indian Patients. *PLoS One*. 2016 May 17;11(5):e0154117. doi:10.1371/journal.pone.0154117. PubMed PMID: 27186641; PubMed Central PMCID:PMC4871472. (IF- 3.057)
12. Vijayamahantesh, **Amit A**, Kumar S, Dikhit MR, Jha PK, Singh AK, Sinha KK, Pandey K, Das VN, Das P, Bimal S. Up regulation of A2B adenosine receptor on monocytes are crucially required for immune pathogenicity in Indian patients exposed to Leishmania donovani. *Cytokine*. 2016 Mar;79:38-44. doi:10.1016/j.cyto.2015.12.016. PubMed PMID: 26748211. (IF- 2.940)

13. **Amit A**, Dikhit MR, Mahantesh V, Chaudhary R, Singh AK, Singh A, Singh SK, Das VN, Pandey K, Ali V, Narayan S, Sahoo GC, Das P, Bimal S. Immunomodulation mediated through *Leishmania donovani* protein disulfide isomerase by eliciting CD8+ T-cell in cured visceral leishmaniasis subjects and identification of its possible HLA class-1 restricted T-cell epitopes. *J Biomol Struct Dyn*. 2017 Jan;35(1):128-140. doi: 10.1080/07391102.2015.1134349. PubMed PMID: 26727289. **(IF- 2.3)**
14. Dikhit MR, Kumar S, Vijaymahantesh, Sahoo BR, Mansuri R, **Amit A**, Yousuf Ansari M, Sahoo GC, Bimal S, Das P. Computational elucidation of potential antigenic CTL epitopes in Ebola virus. *Infect Genet Evol*. 2015 Dec;36:369-75. doi: 10.1016/j.meegid.2015.10.012. PubMed PMID: 26462623. **(IF- 2.591)**
15. Yadav A, **Amit A**, Chaudhary R, Chandel AS, Mahantesh V, Suman SS, Singh SK, Dikhit MR, Ali V, Rabidas V, Pandey K, Kumar A, Das P, Bimal S. *Leishmania donovani*: impairment of the cellular immune response against recombinant ornithine decarboxylase protein as a possible evasion strategy of *Leishmania* in visceral leishmaniasis. *Int J Parasitol*. 2015 Jan;45(1):33-42. doi:10.1016/j.ijpara.2014.08.013. PubMed PMID: 25449949. **(IF- 4.242)**
16. Das P, **Amit A**, Singh SK, Chaudhary R, Dikhit MR, Yadav A, Pandey K, Das VN, Sundram S, Das P, Bimal S. *Leishmania donovani* phosphoproteins pp41 and pp29 re-establishes host protective immune response in visceral leishmaniasis. *Parasitol Int*. 2015 Feb;64(1):18-25. doi: 10.1016/j.parint.2014.08.004. PubMed PMID: 25224164. **(IF- 1.860)**
17. **Amit A**, Chaudhary R, Yadav A, Suman SS, Narayan S, Das VN, Pandey K, Singh SK, Singh BK, Ali V, Das P, Bimal S. Evaluation of *Leishmania donovani* disulfide isomerase as a potential target of cellular immunity against visceral leishmaniasis. *Cell Immunol*. 2014 May-Jun;289(1-2):76-85. doi:10.1016/j.cellimm.2014.03.011. PubMed PMID: 24732062. **(IF- 2.399)**
18. Chaudhary R, **Amit A**, Yadav A, Singh A, Kumar V, Singh SK, Narayan S, Rabidas V, Pandey K, Kumar A, Das P, Bimal S. Immunomodulation in human dendritic cells leads to induction of interferon-gamma production by *Leishmania donovani* derived KMP-11 antigen via activation of NF-κB in Indian kala-azar patients. *Biomed Res Int*. 2014;2014:947606. doi: 10.1155/2014/947606. PubMed PMID: 24587999; PubMed Central PMCID: PMC3919100. **(IF- 2.134)**
19. Chaudhary R, Yadav A, **Amit A**, Singh SK, Narayan S..... Bimal S. *Leishmania donovani*: Evidence for the role of Kinetoplastid Membrane Protein-11 in cellular immunity and anti-leishmanial macrophage function in human Visceral Leishmaniasis. *International Journal of Advanced Research* (2013), Volume 1, Issue 7, 149-157.

Number of Conferences Attained. 06 (National).

Total Number of Publications- 20 (International).