



Centre/School/Special Centre: School of Interdisciplinary Education and Research

Department: Forensic Science

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Dr. Ajay Amit

Assistant Professor

Qualifications: M.Sc., PhD

Area of Interest/Specialization: Forensic Biology, Serology and Immunology

Experience:

As an Assistant Professor in department of Forensic Science, Guru Ghasidas Vishwavidyalaya Bilaspur (C.G) from 2019 till date.

As a Post-doc with University of Toronto—2018-2019.

Assistant Professor (Ad-hoc)— 2016-2017

Awards and Honors: Nil

Research Projects: UGC-Start up- On-going

Title of Project: In-vitro analysis of effect of Cannabidiol (CBD) and Delta-9-

tetrahydrocannabinol (THC) on macrophage mediated pathogenesis of *Leishmania donovani*.

International Collaboration/Consultancy: NA

Best Peer Reviewed Publication (up-to 10):

1. Soni, V. K., Mehta, A., Ratre, Y. K., Tiwari, A. K., Amit, A., Singh, R. P., ... & Vishvakarma, N. K. (2020). Curcumin, a traditional spice component, can hold the promise against COVID-19?. *European Journal of Pharmacology*, 886, 173551.
2. Suman, S. S., Kumar, A., Singh, A. K., Amit, A., Topno, R. K., Pandey, K., ... & Bimal, S. (2021). Dendritic cell engineered cTXN as new vaccine prospect against *L. donovani*. *Cytokine*, 145, 155208.
3. 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
4. Suman, SS., Amit, A.,.....Ali, V. Cytosolic trypanothione of *Leishmania donovani* modulates host immune response in Visceral Leishmaniasis. *Cytokine* 108, 1-8, 2018.
5. 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.
6. 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.
7. **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.
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.
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.
10. **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-I restricted T-cell epitopes. *J Biomol Struct Dyn*. 2017 Jan;35(1):128-140. doi: 10.1080/07391102.2015.1134349. PubMed PMID: 26727289.

Recent Books/Book Chapters/Monographs etc.:

1. Mehta, A., Soni, V. K., Ratre, Y. K., Amit, A., Shukla, D., Kumar, A., & Vishvakarma, N. K. (2022). Role of Tumour-Associated Macrophages in Colon Cancer Progression and

- Its Therapeutic Targeting. In *Colon Cancer Diagnosis and Therapy Vol. 3* (pp. 193-215). Springer, Cham.
2. Amit, A., Yadav, S., Singh, R. P., & Kumar, C. (2022). Development of RNA-Based Medicine for Colorectal Cancer: Current Scenario. In *Colon Cancer Diagnosis and Therapy Vol. 3* (pp. 339-360). Springer, Cham.
 3. Soni, V. K., Amit, A., Chandra, V., Singh, P., Singh, P. K., Singh, R. P., ... & Singh, R. P. (2022). Role of Food Additives and Intestinal Microflora in Colorectal Cancer. In *Colon Cancer Diagnosis and Therapy Vol. 3* (pp. 307-324). Springer, Cham.
 4. Kumar, C., Singh, R. P., Dwiwedi, M. K., & Amit, A. (2021). Immuno-modulating Mediators of Colon Cancer as Immuno-therapeutic: Mechanism and Potential. In *Colon Cancer Diagnosis and Therapy* (pp. 271-308). Springer, Cham.

Research Supervision:4 PhD (Enrolled-2021-2022)

Administrative Responsibilities: NA

Additional Information: