

Faculty Profile

Name	:	Dr. Subodh Kumar
Designation	:	Assistant Professor
Department/School/Special Centre	:	Department of Biotechnology & Microbiology/ School of Science
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Off. Email ID	:	Subodh.kumar@niu.edu.in
Qualifications	:	Ph.D (BHU), Post Doc (NII, New Delhi & NTU, Singapore)
Areas of Teaching Interest	:	Biotechnology
Areas of Research Interest/Specialization	:	Clinical Biotechnology (Infection Biology & Non-Communicable Disease), Biomarker discovery through Mass Spectrometry based approach
Experience	:	Post Ph.D more than six & half years of experience (1 year & 4 Months at National Institute of Immunology, New Delhi as Research Associate, 1 Year, 6 Months & 16 Days at Nanyang Technological University, Singapore as a Post Doctoral Fellow, 2 Years, 6 Months & 15 Days at UCMS & GTB Hospital, University of Delhi as a DHR-ICMR Research Scientist I, Approx. 1 Year as Scientist at DST- Centre for Policy Research, BBAU Central University, Lucknow, I have joined NIU from 23 rd July 2018 onwards)
Awards & Honours	:	<ol style="list-style-type: none"> 1. I have qualified GATE in 2004. 2. Selected for JRF Fellowship (2006-2009) in a European Commission funded project. 3. Awarded CSIR-SRF Fellowship (2009-2011) by CSIR, New Delhi. 4. Visited IDRI, Seattle, WA, USA (Nov. 2006-1Jan 2007) as a visiting research fellow supported by Bill & Melinda Gates funded project. 5. Shortlisted under top-10 best work proposals in Bio-Asia Innovation Award-2012. 6. Supervised an Intra-mural research project as a CO-PI at UCMS & GTB Hospital, University of Delhi from 2015 to 2017. 7. Life Member of Association of India Science Congress (AISC), Kolkata. 8. Filed a Patent (2939/DEL/2010) and was published on 13 Jan. 2013 on the topic; “IDENTIFICATION OF L. DONOVANI SPECIFIC 70 KDA, 37 KDA AND 12.6 KDA PROMASTIGOTE ANTIGENS FOR THE DIAGNOSIS OF INDIAN VL” 9. Published 10 Research Articles in International Journals & Contributed in one Book released by DST Centre for Policy Research, BBAU, Central University, Lucknow. 10. Total Citation of the publication = 224, h-Index = 5, i-10 Index = 5 <p>Google Scholar link:</p> <p style="text-align: center;">https://scholar.google.co.in/citations?user=RbxOW3kAAAAJ&hl=en</p>

		<ol style="list-style-type: none"> 11. Participated and presented in several National & International level conferences. 12. Invited for lecture by Ashoka Institute of Technology & Management, Varanasi 13. Received young scientist award in BTSPARK conference, organized by Ashoka Institute of Technology & Management, Varanasi. 14. Invited as an Examiner of B.Tech. Biotechnology student's practical examination by Invertis University, Bareilly on 16th Dec. 2017. 15. Chaired the Scientific session at 40th AIMLTA conference (29-30 Dec. 2014) at Jawahar Lal Nehru Auditorium, AIIMS, New Delhi. 16. Attended several training and attended workshops of National/International repute.
<p>International Collaboration/Consultancy</p>	<p>:</p>	<ol style="list-style-type: none"> 1. During Ph.D (as research fellow) I have completed Bill & Melinda gates funded project entitled "A phase I, open-label, dose-escalating study to evaluate the safety, tolerability, and immunogenicity of the Leish-F1+MPL-SE vaccine in healthy adults in India". (Manuscript published in Journal, "VACCINE"). It was an Indo-USA collaborative project between IDRI, Seattle, WA, USA and BHU, Varanasi, India. 2. I have worked as a Post Doctoral Research Fellow at Division of Structural Biology, School of Biological Sciences, Nanyang Technological University, Singapore, from 19th Dec. 2012 to 5th July 2014. At NTU, I have handled a multi-centric collaborative project on protein deamidation and their correlation in atherosclerotic progression by using Mass-Spectrometry based approach. The finding of the study was published in the Journal SCIENTIFIC REPORT
<p>Best Peer Reviewed Publications (upto 5)</p>	<p>:</p>	<ol style="list-style-type: none"> 1. Dutta B, Park JE, Kumar S, Piliang Hao, Xavier Gallart-Palau, Aida Serra, Yan Ren, Vitaly Sorokin, Chuen Neng Lee, Hee Hwa Ho, Dominique deKleijn, Siu Kwan Sze. Monocyte adhesion to atherosclerotic matrix proteins is enhanced by Asn-Gly-Arg deamidation. Nature Publishing Group, Scientific Report 7 (2017): 5765 DOI:10.1038/s41598-017-06202-2. ISSN: 2045-2322, Co-Author 2. Chakravarty J a1, Kumar S a1, Trivedi S a, Rai VK.a, Singh Aa, AshmanJAb, LaughlinEMb, ColerRNb, KahnSJb, BeckmannAMb, CowgillKDb, ReedSGb, Sundar Sa, Piazza FMb* a clinical trial to evaluate the safety and immunogenicity of the leish-f1 + mpl-se vaccine for use in the prevention of visceral leishmaniasis. Vaccine 29 (2011): 3531–3537. (a1 = Joint First Author) ISSN: 0264-410X, a1 = Joint First Author 3. Kumar S, Kumar D, Chakravarty J, Rai M, Sundar S.. Identification and Characterization of a Novel Leishmania donovani Antigen for Serodiagnosis of Indian Visceral Leishmaniasis. Am. J. Trop. Med. Hyg., 86(4), 2012, pp. 601–605. ISSN: 1476-1645, First Author 4. Kumar S, Kumar D, Chakravarty J, Rai M, Sundar S. Identification and characterization of a novel 37 kDa <i>Leishmania donovani</i> Antigen for Diagnosis of Indian Visceral Leishmaniasis. Clinical and Vaccine Immunology (CVI) 2011; 18(5):772-5. ISSN: 1556-679X, First Author

5. Manandhar KD, Yadav TP, Prajapati VK, **Kumar S**, Rai M, Dube A, Srivastava ON and Sundar S, **2008**. Antileishmanial Activity of Nano-Amphotericin-B deoxylate. **Journal of Antimicrobial Chemotherapy**: 62, 376–380. ISSN: 1460-2091, Co-Author

RECENT PUBLICATIONS:

1. **Kumar S**, Sundar S, Dutta V, Sobti RC. Nanomedicine with reduced drug toxicity capacity against Leishmaniasis: Current and Future Prospects. *Advanced Science, Engineering and Medicine*, 2018, 10, 810-814.
2. Dutta B, Park JE, **Kumar S**, Piliang Hao, Xavier Gallart-Palau, Aida Serra, Yan Ren, Vitaly Sorokin, Chuen Neng Lee, Hee Hwa Ho, Dominique deKleijn, Siu Kwan Sze. Monocyte adhesion to atherosclerotic matrix proteins is enhanced by Asn-Gly-Arg deamidation. **Nature Publishing Group, Scientific Report 7 (2017): 5765 | DOI:10.1038/s41598-017-06202-2**. ISSN: 2045-2322, Co-Author
3. **Kumar S***, Mittal P. Selected Reaction Monitoring: A Valid Tool for Targeted Quantitation of Protein Biomarker Discovery. **J Anal Bioanal Tech 8 (2017): 362**. doi: 10.4172/2155-9872.1000362
ISSN: 2155-9872, 1* = First & Corresponding author

BOOK CHAPTER:

Contributed in a book and there chapters, which was released on Technology day in 2018 by **Department of Science and Technology, New Delhi**. The Book Title was;

“STI for Inclusive growth in India: Building Strategic Perspective from Evidences”.

CONFERENCE PROCEEDING

Kumar S, Kumar D, Chakravarty J, Rai M, Sundar S, 2011. A novel 12.6 kDa protein of *Leishmania donovani* for the diagnosis of Indian *Visceral leishmaniasis*. **TROPICAL MEDICINE & INTERNATIONAL HEALTH Volume: 16 Special Issue: SI Supplement: 1, Pages: 65-65 Published: OCT 2011.**

Recent Peer Reviewed Journals/Books (upto 3)