



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	Dr.	First Name	Jitendra	Last Name	Kumar	Photograph
Designation	Assistant Professor					
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Web-Page	https://sites.google.com/view/jitendrakumar1/home					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	National Centre for Cell science (NCCS) Pune, SP Pune University				2018	
M.Phil.	School of Life Sciences, JNU New Delhi				2011	
M.Sc. Zoology	Department of Zoology, University of Delhi				2007	
B.Sc. Hons. Zoology	Acharya Narendra Dev College, University of Delhi				2005	
Career Profile						
<ul style="list-style-type: none"> • 11-11-22 to till date: Assistant Professor, Department of Zoology, Deshbandhu College, University of Delhi, New Delhi, India. • 23-08-21 to 04-11-22 : Research Associate, Jamia Hamdard, New Delhi, India • 02-11-20 to 30-06-21 : Research Associate, National Institute of Immunology, New Delhi, India • 13-07-18 to 04-09-20: Postdoctoral Researcher, UT Southwestern Medical Centre, Dallas, Texas, USA. • 29-01-18 to 12-07-18: Research Assistant III, Baylor Scott & White Research Institute, Dallas, Texas, USA. 						
Administrative Assignments						
NA						
Areas of Interest/Specialization						
Molecular Immunology; Immune Evasion by SARS-CoV-2, CAR-T Cell Therapy						
Subjects Taught						

Human Physiology

Ayurveda and Nutrition

Research Guidance

- Co-supervision of one M.Pharm. Student Mr. Saurabh Dhyani dissertation thesis in Department of Molecular medicine, SIST, Jamia Hamdard, New Delhi-110062, India.

Publications Profile

Research papers published in Refereed/Peer Reviewed Journals-

- Kumar J, Dhyani S, Kumar P, Sharma NR, Ganguly SK. SARS-CoV-2 encoded ORF8 protein possesses complement inhibitory properties. *Journal of Biological Chemistry*. 2022 (in revision). (Authorship: Sole First Author)
- Singh A, Kumar R, Mukherjee M, Brooks JF, Kumar J, Conlon K, Basrur V, Chen Z, Han X, Hooper LV, Venuprasad K. ROR γ t-Raftlin1 complex regulates the pathogenicity of Th17 cells and intestinal inflammation. *Nature Communications*. 2022 (in revision) (Authorship: Co-Author)
- Kumar J., Kumar R, Singh A, Tsakem EL, Kathania M, Riese MJ, Theiss AL, Davila ML, Venuprasad K. Deletion of Cbl-b inhibits CD8⁺ T-cell exhaustion and promotes CAR T-cell function. *J Immunother Cancer*. 2021 Jan; 9(1):e001688. doi: 10.1136/jitc-2020-001688. PMID: 33462140. (IF: 12.469) Citations-19 (Authorship: Sole First Author)
- Kumar J., Yadav V N., Phulera S., Kamble A., Gautam A K., Panwar H S., and Sahu A. Species specificity of vaccinia virus complement control protein for bovine classical pathway is governed primarily by direct interaction of its acidic residues with Factor I. *J Virol*. 2017 Sep 12; 91(19). pii: e00668-17. doi: 10.1128/JVI.00668-17. Print 2017 Oct 1. (IF:6.549) Citations-4 (Authorship: Sole First Author)
- Agrawal P., Nawadkar R., Ojha H., Kumar J., and Sahu A. Complement evasion strategies of viruses: An overview. *Front. Microbiol*. 8:1117.doi: 10.3389/fmicb.2017.01117. Evaluated for Faculty of 1000 (F1000) citation. Issue (IF: 6.064) Citations -115 (Authorship: Senior Author)
- Choudhary P., Makesh M., Kumar J. Haemolytic activity of Complement component C3 of *Labeo rohita*. *Journal of Entomology and Zoology Studies* 2019; 7(3): 57-62 (RJIF: 5.48) (Authorship: Senior Author)

Research papers published in Refereed/Peer Reviewed Conferences-

- Kumar J., Yadav V.N., Gautam A.K., Kamble A., Sahu A., 2015. Species selectivity in poxviral complement regulators: Negatively charged residues govern the specificity of VCP towards bovine classical pathway. *Molecular Immunology* 67,119-198. (IF: 4.174).

- Jitendra Kumar, PhD; Amir Singh, PhD; Ritesh Kumar, PhD; Mahesh Kathania, PhD; Elviche L. Tsakem, MS; Matthew J. Riese, PhD; Prithvi Raj, PhD; Marco Davila, MD; Venuprasad Poojary, PhD“ Inhibition of Cbl-b prevents CD8+ T cell exhaustion and promotes CAR-T cell function” in 5th Annual Donald W. Seldin, M.D. Research Symposium, Department of Internal medicine (Presentation no.2) on 21st May 2020, UT Southwestern Medical Centre, Dallas, TX 75390, USA.

Conference Organization/ Presentations

- Poster presentation during Postdoctoral training entitled as “ Inhibition of Cbl-b prevents CD8+ T cell exhaustion and promotes CAR-T cell function” in 5th Annual Donald W. Seldin, M.D. Research Symposium, Department of Internal medicine (Presentation no.2) on 21st May 2020, UT Southwestern Medical Centre, Dallas, TX 75390, USA.
- Poster presentation during PhD entitled “Species selectivity in poxviral complement regulators: Negatively charged residues govern the specificity of VCP towards bovine classical pathway” and Won best poster prize in "15th European meeting in complement and human diseases (EMCHD 2015)" from 26th -30th June 2015, Uppsala, Sweden with 11 others out of 350 poster presentations across the globe.
- Participated in "International conference on cancer research: New horizons" organized by National Centre for Cell Science (NCCS), Pune an autonomous institute of Department of Biotechnology, Government of India held at NCCS-Pune" on "19-21st November 2015".

Research Projects

- “Validation and characterization of novel functional role of SARS-CoV-2 ORF8 protein in tricking host complement system using molecular mimicry” Sponsored by DBT Govt. of India in Department of Molecular Medicine, School of Interdisciplinary Sciences and Technology, Jamia Hamdard, New Delhi, India from 23rd August 2021 to 22nd August 2022.
- “A novel vaccine evaluation platform to support SARS-CoV-2 vaccine development in resource-limiting settings” funded by BIRAC, DBT Govt. of India in National Institute of Immunology, New Delhi, India from 2nd November 2020 to 30th June 2021.

Awards and Distinctions

- 2015 - A travel award for international conference from ‘Department of Biotechnology - Conference, Travel, Exhibition and Popular Lectures’ Government of India to attend “15th European meeting on complement in human diseases (EMCHD) from 26th -30th June 2015, Uppsala, Sweden.”
- 2012 - Awarded Senior Research Fellowship by University Grant Commission (UGC),
- 2010 - Awarded Junior Research Fellowship by University Grant Commission (UGC),
- 2010 - Selected in National Centre for Cell Science (NCCS), Pune, India for PhD through interview.
- 2008, 2009 - Qualified CSIR-UGC-JRF Examination two times for Junior Research Fellowship in Life Sciences for Pursuing M.Phil./PhD, conducted by Council for Scientific and Industrial Research (CSIR), India.

2008 -	Secured AIR 1 in M.Phil./PhD Entrance Exam, School of Life Sciences, Jawaharlal Nehru University New Delhi, India.
2008 -	Qualified Graduate Aptitude Test for Engineering (GATE), India for Life sciences.
2005 -	Qualified M.Sc. Entrance Exam conducted by University of Delhi (Faculty of Science) for Post- graduation in Zoology department, North campus, University of Delhi. Delhi, India.
Association With Professional Bodies	
2015-	European Complement Network (ECN) member
2015 -	International Complement Society (ICS) member, Miami, FL, USA
2017 -	American Society for Microbiology (ASM)
2019 -	Review Editor <i>BMC Microbiology</i>
2021-	Review Editor <i>Frontiers in Microbiology</i>
2021-	Member of <i>Society for Immunotherapy in Cancer (SITC)</i>
2021-	Review Editor <i>Cancer Cell international (Springer Nature)</i>
2022-	Review Editor <i>Frontiers in Immunology</i>
2022-	Review Editor <i>Frontiers in Oncology</i>
2022-	Review Editor <i>Journal for Immunotherapy in Cancer (JITC)</i>
Other Activities	
1999-	Member of HelpAge India



Signature of Faculty
Member