




University Faculty Details

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Title	Professor	First Name	Daman	Last Name	Saluja	Photograph
Designation		Professor				
Department		Dr. B. R. Ambedkar Center for Biomedical Research (ACBR)				
Address (Campus)		Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi – 110007, INDIA				
(Residence)		8/5 IInd Floor Block 41 Singh Sabha Road, Delhi-110007				
Phone No (Campus)		011-27666272, 27667151				
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Email		dsalujach@yahoo.com , dsalujach59@gmail.com				
Web-Page		www.acbrdu.edu				
Education:						
Subject		Institution		Year	Details	
M.Sc.		Delhi University, (1 st Division)		1980	<i>Ph.D Thesis topic:</i> <u>Dissertation Topic:</u> Regulatory role of phosphorylation in Ribulose 1,5-bisphosphate carboxylase and monophenolase in spinach and wheat.	
M.Phil		Delhi University, (1 st Division)		1981		
Ph.D.		Delhi University		1986		
Career Profile:						
PROFESSIONAL CAREER						
MAJOR CONTRIBUTIONS :						
<ul style="list-style-type: none"> • Identification of an alternate spliced form of Sin3B in human placental tissue. • Characterisation of ETO domains that specifically interact with other proteins. • Multiplex PCR based diagnosis of <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i>. • Characterisation of Novell mutations leading to ciprofloxacin resistance in <i>Neisseria gonorrhoeae</i>. • Cloning and characterisation of hTAF130. Role of hTAF130 in Spl -mediated activated transcription. • Characterisation of functional domains of dnaB protein of E. coli. • Role of Phosphorylation in the regulation of Ribulose 1,5-bisphosphate carboxylase in spinach. • Purification and kinetics properties of poly(A) polymerase in wheat and mung bean. 						
RESEARCH EXPERIENCE IN VARIOUS INSTITUTIONS:						

March 2007- onwards	Professor, Biochemistry & Molecular Biology, Dr. B. R. Ambedkar Centre for Biomedical Research
January 2006- -2010	Director (offg) Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi.
March 1997- Feb 2007	Reader, Biochemistry & Molecular Biology, Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi - 110 007
1993- March 1997	Assistant Research Scientist, Department of Microbiology, New York University Medical Centre, New York, NY. Cloning and characterisation of hTAF130. Role of hTAF130 in Spl – mediated activated transcription.
● 1990-1993	Assistant Research Scientist, Department of Biochemistry, New York University Medical Centre, New York, NY Biochemical characterisation of E coil temperature - sensitive dnaB mutants.
● 1989-1990	Research Scientist 'A' at Biochemistry and Molecular Biology Laboratory, University of Delhi. Role of phosphorylation in enzymes regulation in wheat and pea. Purification and characterisation of poly(A) polymerase from mung bean.
● 1987-1988	Research Scientist at Biochemistry and Molecular Biology Laboratory, Department of Botany, University of Delhi, Delhi-110007,
Research Interests / Specialization	
<ul style="list-style-type: none"> • Molecular diagnostics and basis of pathogenesis by <i>Neisseria gonorrhoeae</i> and <i>Chlamydia trachomatis</i> • Regulation of gene expression. 	
Teaching Experience (Subjects/Courses Taught)	
<p>For the past seventeen years, taking theory and practicals for M.Sc. Biomedical Sciences.</p> <p>In particular, teaching : Biochemistry and Molecular Biology in Semester I and II respectively. In semester III, taking lectures in, "<i>Molecular Oncology</i>" and also several topics in clinical research paper</p>	

Honors & Awards

July 2013: Selected for **Khorana technology transfer course** held at the University of Wisconsin-Madison, USA

May 2013: Received '**The Biotech Product & Process Development and Commercialization Award**' of 2013

1993-1995: NIH Trainee Fellowship, NIH

1990: Selected Associate of Indian Academy of Science for period of four years (1990-1994).

1989 INSA Young Scientist Medal awarded by Indian National Science Academy. (National Award)

1989 L.S.S. Kumar Memorial Award. (National Award)

1988 Awarded IUB travel Fellowship by International Union of Biochemistry to attend IUB congress at Prague, Czechoslovakia.

1985-86 Awarded Merit Fellowship by Council for Scientific and Industrial Research.

1975-84 Awarded National Science Talent Scholarship by the National Council for Education Research and Training.

1977 Second position in B. Sc. (H) Botany II year, in Delhi University.

Publications (LAST FIVE YEARS)

PUBLICATIONS from 2012-2017

1. Srivastava K, Sundriyal R, Meena P.C., Bhatia J, Narang R, **Saluja D. (2012)**. Association of angiotensin converting enzyme (insertion/deletion) gene polymorphism with essential hypertension in Northern Indian subjects Genetic Testing and Molecular Biomarkers Volume 16, Pages 174-177.
Impact factor: 1.10
2. Kumari S, Chowdhury J, Mishra A.K, Chandna S, **Saluja D**, Chopra M. (2012). Synthesis and Evaluation of a Fluorescent Non-Peptidic Cholecystokinin-B/Gastrin Receptor Specific Antagonist for Cancer Cell Imaging. Chem Biochem:13, Pages 282-29.
Impact factor: 3.94
3. Nimesh M., Joon, D., Pathak, A.K., Saluja D, (2013) Comparative study of diagnostic accuracy of established PCR assays and in-house developed sdaA PCR method for detection of Mycobacterium tuberculosis in symptomatic patients with pulmonary tuberculosis **J. of infection 67(5): 399– 407**
Impact factor: 4.04
4. Kadamb R, Mittal S, Bansal N, Batra H, **Saluja D**. Sin3: insight into its transcription regulatory functions. Eur J cell Biol. 2013 Aug- Sep; 92(8-9): 237 – 46.
Impact factor: 3.2
5. Joshi R, Kumar A, Manral S, Sinha R, Arora S, Sharma A, Goel S, Kalra N, Chatterji S, Dwarkanath BS, Rawat DS, Depass AL, Rohil V, **Saluja D**, Parmar VS, Prasad AK, Raj HG. (2013) Calreticulin transacetylase mediated upregulation of thioredoxin by 7,8-diacetyloxy-4-methylcoumarin enhances the antioxidant potential and the expression of vascular endothelial growth factor in peripheral mononuclear cells. Chem Biol Interact. 25:206 (2): 327-36.
6. Mishra PK, Sonkar SC, Raj SR, Chaudhry U, **Saluja D (2013)** Functional Analysis of Hypothetical Proteins of *Chlamydia Trachomatis*: A Bioinformatics Based Approach for Prioritizing the Targets. J Comput Sci Syst Biol 7: 010-014. doi:10.4172/jcsb.1000132
Impact factor ;2.53* (tentative)

7. Golechha M, Sarangal V, Bhatia J, Chaudhry U, **Saluja D**, Arya DS (2014) Naringin ameliorates pentylentetrazol-induced seizures and associated oxidative stress, inflammation, and cognitive impairment in rats: Possible mechanisms of neuroprotection. *Epilepsy Behav.* Oct 14;41C:98-102. doi: 10.1016/j.yebeh.2014.09.058. PMID: 25461197 **Impact factor: 2.18**
8. Faiq MA, Ali M, Dada T, Dada R, **Saluja D**. (2014) A novel methodology for enhanced and consistent heterologous expression of unmodified human cytochrome P450 1B1 (CYP1B1). *PLoS One.* 2014 Oct 16;9(10):e110473. doi: 10.1371/journal.pone.0110473. eCollection 2014. PMID: 25329831 **Impact factor: 3.534**
9. Patel AL, Mishra PK, Sachdev D, Chaudhary U, Patton DL, **Saluja D**. (2014) Seroprevalence of antibodies against Pkn1, a novel potential immunogen, in Chlamydia trachomatis-infected Macaca nemestrina and human patients. *Biomed Res Int.* 2014;2014:245483. doi: 10.1155/2014/245483. Epub 2014 Jun 18. PMID: 25032212 **Impact factor: 2.71**
10. Chandra S, Narang R, Sreenivas V, Bhatia J, **Saluja D**, Srivastava K. (2014) Association of angiotensin II type 1 receptor (A1166C) gene polymorphism and its increased expression in essential hypertension: a case-control study. *PLoS One.* 2014 Jul 3;9(7):e101502. doi: 10.1371/journal.pone.0101502. eCollection 2014. PMID: 24992666 **Impact factor: 3.534**
11. Chandra S, Narang R, **Saluja D**, Bhatia J, Srivastava K. (2014) Expression of angiotensin-converting enzyme gene in whole blood in patients with essential hypertension. *Biomarkers.* 2014 Jun;19(4):314-8 doi:10.3109/1354750X.2014.910550. Epub 2014 May 9 PMID: 24811208. **Impact factor: 2.2**
12. Nimesh M, Joon D, Varma-Basil M, **Saluja D**. (2014) Development and clinical evaluation of sdaA loop-mediated isothermal amplification assay for detection of Mycobacterium tuberculosis with an approach to prevent carryover contamination. *J Clin Microbiol.* 2014 Jul;52(7):2662-4. doi: 10.1128/JCM.00907-14. Epub 2014 Apr 30. PMID: 24789191 **Impact factor: 4.23**
13. Faiq MA, Dada R, **Saluja D**, Dada T. Glaucoma--diabetes of the brain: a radical hypothesis about its nature and pathogenesis. *Med Hypotheses.* 2014 May;82(5):535-46. doi: 10.1016/j.mehy.2014.02.005. Epub 2014 Feb 13. PMID: 24582331 **Impact factor: 1.2**
14. Faiq MA, Dada R, Sharma R, **Saluja D**, Dada T. (2015) CYP1B1: A Unique Gene with Unique Characteristics. *Curr Drug Metab.* 2015 Vol 16: 893-914. **Impact factor: 4.02**
15. Sawney, S. Arora, R. Aggarwal, K. K and **Saluja, D**. (2015) Esculetin Downregulates the Expression of AML1-ETO and C-Kit in Kasumi-1 Cell Line by Decreasing Half-Life of mRNA, *J of Oncology* (in press)
16. Joshi R, Arora S, Kumar A, Manral S, Rohil V, Goel S, Priya N, Singh P, Ponnann P, Chatterji S, Dwarakanath BS, **Saluja D**, Rawat DS, Prasad AK, Saso L, Kohli E, DePass AL, Bracke ME, Parmar VS, Raj HG. (2014) The Competence of 7,8-Diacetoxy-4-Methylcoumarin and other Polyphenolic Acetates in Mitigating the Oxidative Stress and their Role in Angiogenesis. *Curr Top Med Chem.* 2015 (in press) **Impact factor: 3.45**

17. Sawney, S., Arora, R., Aggarwal, K., K., & **Saluja, D.**, (2015) Esculetin Downregulates the Expression of AML1-ETO and C-Kit in Kasumi-1 Cell Line by Decreasing Half-Life of mRNA, *J of Oncology*, 8
18. Gupta, S., Kumar, P., Kaur, H., Sharma, N., **Saluja, D.**, Bharti, AC., Das, BC., (2015). Selective participation of c-Jun with Fra-2/c-Fos promotes aggressive tumor phenotypes and poor prognosis in tongue cancer. 19;5:16811
19. Kadamb, R., Mittal, S., Bansal, N., & **Saluja, D.**, (2015) Stress-mediated Sin3B activation leads to negative regulation of subset of p53 target genes. *Biosci Rep* 25;35(4)
20. Joon, D., Nimesh, M., & **Saluja, D.**, (2015) Loop-mediated isothermal amplification as alternative to PCR for the diagnosis of extra-pulmonary tuberculosis. *Int J Tuberc Lung Dis.* 19(8):986-91
21. Singh, S., Pandey, S., Bhatt, AN., Chaudhary, R., Bhuria, V., Kalra, N., Soni, R., Roy, BG., **Saluja, D.**, & Dwarakanath, BS., (2015) Chronic Dietary Administration of the Glycolytic Inhibitor 2-Deoxy-D-Glucose (2-DG) Inhibits the Growth of Implanted Ehrlich's Ascites Tumor in Mice. *PLoS One.* 10(7):e0132089
22. Mishra, A., Kumar, R., Tyagi, A., Kohaar, I., Hedau, S., Bharti, AC., Sarker, S., Dey, D., **Saluja, D.**, & Das, B., (2015) Curcumin modulates cellular AP-1, NF-kB, and HPV16 E6 proteins in oral cancer. *Ecancermedicalscience* 9:525
23. Chandra, S., **Saluja, D.**, Narang, R., Bhatia, J., & Srivastava, K., (2015) Atrial natriuretic peptide and aldosterone synthase gene in essential hypertension: a case-control study. *Gene.* 567(1):92-
24. Hasan, T., Ali, M., **Saluja, D.**, & Singh, LR. (2015) pH might play a role in regulating the function of paired amphipathic helices domains of human Sin3B by altering structure and thermodynamic stability. *Biochemistry (Mosc)* 80(4):424-32
25. Sachdev, D., Patel, AL., Sonkar, SC., Kumari, I., & **Saluja, D.**, (2015) Diagnosis of Neisseria gonorrhoeae using molecular beacon. *Biomed Res Int* 597432
26. Srivastava, K., Narang, R., Bhatia, J., & **Saluja, D.**, (2016) Expression of Heat Shock Protein 70 Gene and Its Correlation with Inflammatory Markers in Essential Hypertension. *PLoS One* 11(3):e0151060
27. Srivastava, K., Narang, R., Bhatia, J., & **Saluja, D.**, (2016) Expression of Heat Shock Protein 70 Gene and Its Correlation with Inflammatory Markers in Essential Hypertension. *PLoS One* 11(3):e0151060
Impact factor 3.05
28. Arora R, Sawney S, **Saluja D.** (2016) Potential Therapeutic Approaches for the Treatment of Acute Myeloid Leukemia with AML1-ETO Translocation. *Curr Cancer Drug Targets.* 16(3):215-25.
Impact factor 3.7

29. Sonkar SC, Wasnik K, Kumar A, Mittal P, **Saluja D.** (2016) Comparative analysis of syndromic and PCR-based diagnostic assay reveals misdiagnosis/ overtreatment for trichomoniasis based on subjective judgment in symptomatic patients. *Infect Dis Poverty*. 2016 May 5;5:42. doi: 10.1186/s40249-016-0133-

Impact factor: 2.3

30. Sonkar SC, Sachdev D, Mishra PK, Kumar A, Mittal P, **Saluja D.**(2016) A molecular-beacon-based asymmetric PCR assay for easy visualization of amplicons in the diagnosis of trichomoniasis. *Biosens Bioelectron*. 11;86:41-47. doi: 10.1016/j.bios.2016.06.025.

Impact factor: 7.44

31. Faiq MA, Dada R, Kumar A, **Saluja D**, Dada T (2016) Brain: The potential Diagnostic and Therapeutic Target for Glaucoma. *CNS Neurol Disord Drug Targets*. Mar 21.

Impact factor: 2.13

32. Jain R, Sonkar SC, Chaudhry U, Bala M, **Saluja D.** (2016) In-silico Hierarchical Approach for the Identification of Potential Universal Vaccine Candidates (PUVCs) from *Neisseria gonorrhoeae*. *J Theor Biol*. 2016 Dec 7;410:36-43. doi: 10.1016/j.jtbi.2016.09.004.

Impact factor: 2.05

33. Sachdev D, Kumari I, Bala M, Kumar V, **Saluja D.** (2017) Mutation pattern in the genome of *Neisseria gonorrhoeae* and its association with multidrug-resistant isolates from Delhi, India. *Indian J Med Microbiol*. 2017 Jan-Mar;35(1):109-112. doi: 10.4103/ijmm. IJMM_16_46.

Impact factor: 1.05

34. Sonkar S C, Wasnik k, Kumar A, Sharma V, Mittal P, Mishra P K, Bharadwaj M, **Saluja D** (2017) Evaluating the utility of syndromic case management for three sexually transmitted infections in symptomatic women visiting hospitals in Delhi, India”, *Scientific reports* 3;7(1):1465. doi: 10.1038/s41598-017-01422-y.

Impact factor: 5.23

35. Saini V, Manral A, Arora R, Meena P, Gusain S, **Saluja D**, Tiwari M. (2017) Novel synthetic analogs of diallyl disulfide triggers cell cycle arrest and apoptosis via ROS generation in MIA PaCa-2 cells. *Pharmacol Rep*. 14;69(4):813-821. doi: 10.1016/j.pharep.2017.03.006.

Impact factor: 2.59

36. Joon D, Nimesh M, Varma-Basil M, **Saluja D.** (2017). Evaluation of improved IS6110 LAMP assay for diagnosis of pulmonary and extra pulmonary tuberculosis. *J Microbiol Methods*. 2017 Aug;139:87-91. doi: 10.1016/j.mimet.2017.05.007.

Impact factor: 2.09

Patents

1. Trade Mark Granted for STD – biochip.

2. Patent has been granted for A multiplex PCR based process for detecting *Chlamydia trachomatis* and *Neisseria gonorrhoeae* patent no. is 239908.
3. Patent has been filed to US patent office for the prototype kit for diagnosis of *Chlamydia trachomatis* and patent application number is 11/436,063 dated 17.5.2006.
4. Patent has been filed :A Novel Oligonucleotide-based Diagnostic Probe/Tool/Kit for Tuberculosis Detection and Method of Working for same patent filed in India (Application Number IN 77/DEL.2013, Ref No. E-101/3953/2013-DEL)
5. Patent has been filed for a molecular Beacon – mediated Oligonucleotids- based Diagnostic Probe / tool/ Kit for Detection of *Trichomonas vaginalis* and Method of working for same and application no is 1098/DEL/2013 dated 12/4/13.
6. Patent has been filed for a novel beacon-based Diagnostic Probe / Tool/Kit for Detection of Translocation 8; 21 in Acute Myeloid Leukemia patients and method of Working for the same and application no. is 1568/DEL/2013 – 24.5.13.
7. Patent has been filed for a new Fluorescent Beacon probe based diagnostic Tool/Kit for molecular detection of Translocation t(9;22)/ BCR – ABL1 in Leukemic patients and Method of Working for the same and application no. is 1569/DEL/2013 – 24.5.13.

Conference Presentations

- Invited talk on, ‘CHIP BASED MULTIPLEX ASSAY IN DIAGNOSIS OF INFECTIOUS DISEASES’ at National workshop on Hands on training in Molecular Techniques in Biotechnology December 23,24th, 2013 organized by VPCI, Delhi University.
- Invited talk on DEVELOPING POINT OF CARE DIAGNOSTIC FOR INFECTIOUS DISEASES: CHALLENGES AND OPPORTUNITIES held at Bhaskaracharya college of applied sciences, Univ of Delhi
- Gave a talk on Understanding the molecular mechanism of mtrR in the regulation of antimicrobial resistance in *Neisseria gonorrhoeae* using *in vitro* and *in silico* studies during STI & AIDS World Congress 2013 (Joint Meeting of the 20th ISSTD and 14th IUSTI Meeting), held at Vienna, Austria.
- Keynote speaker at International conference on innovations in biotech & medicine" on 22-23 October 2013 held in Bangalore, the title of the talk is, NEW TECHNOLOGIES IN THE DIAGNOSIS OF SEXUALLY TRANSMITTED INFECTIONS: CHALLENGES AND OPPORTUNITIES.
- Organized 9th Symposium on Frontiers in Biomedical Research on April 14th – 16th 2014 conference
- Kadamb R, Mitta S, Nidhi B, Dwarakanath B S, Saluja D Differential Recruitment And Role Of Human Sin3 In P53 Mediated Gene Repression presented at 14th International Conference On Ataxia-Telangiectasia, February 7-11, 2012 New Delhi, India

- Sachdev D, Sonkar S, Mishra P., Patel A.L, Saluja D. Co-infection of *Neisseria* And *Chlamydia* in Symptomatic And Asymptomatic Women – Implications in Reproductive Health presented at 19th biennial conference of the international Society for Sexually transmitted diseases Research Québec City, CANADA JULY 10 TO 13, 2011
- Achchhe L. Patel, Prashant K. Mishra, Sachdev D, Saluja D Seroprevalence of Novel Immunogens of *Chlamydia trachomatis* and their cytokine response in PBMC cells under invitro conditions presented at 19th biennial conference of the international Society for Sexually transmitted diseases Research Québec City, CANADA JULY 10 TO 13, 20
- Divya Sachdev, Indu Kumari, Manju Bala, Uma Chaudhary, Daman Saluja Analysis of point mutations in various genes responsible for penicillin resistance in *Neisseria gonorrhoeae* presented at World congress of sexually transmitted infection. 12 IUSTI, world congress, 35th national conference of IAS & AIDS, Delhi, India 2nd Nov.-5th Nov 2011.
- Prashant Kumar Mishra, A.L. Patel, K.S. Rohit Raj, S.C. Sonkar, A. Babbar, U. Chaudhry, Daman saluja Functional Annotation of Hypothetical Proteins of *Chlamydia trachomatis* presented at World congress of sexually transmitted infection. 12 IUSTI, world congress, 35th national conference of IAS & AIDS, Delhi, India 2nd Nov.-5th Nov 2011.
- Subash Chandra sonkar divya Sachdev, Prashant K. Mishra, Daman Saluja Prevalence and Co-infection study of *Trichomonas vaginalis* and *Chlamydia trachomatis* presented at World congress of sexually transmitted infection. 12 IUSTI, world congress, 35th national conference of IAS & AIDS, Delhi, India 2nd Nov.-5th Nov 2011.

- Jyoti Zack, Daman Saluja ‘ In- silico and interaction studies suggest a decrease in DNA – binding due to mutation in RUNXI’ at the 17th International RUNX workshop on July 11-14-2010 , Hiroshima , Japan
- Divya Sachdev, Poonam Sachdeva, Manju Bala, Jyoti Zack, Achchhe Lal Patel, Daman Saluja. Prevalence of african-plasmid and multiple mutations at mtr locus leads to high penicillin resistance in clinical isolates of *Neisseria gonorrhoeae*’ at the 19th ECCMID Helsinki, 16 -19 May, 2009.
- Divya Sachdev, Poonam Sachdeva, Manju Bala, Jyoti Zack, Achchhe Lal Patel, Daman Saluja. Multiple mutations and change in conformation of Mtr efflux pump leading to penicillin resistance in *Neisseria gonorrhoeae*. at 18th ISSTD in conjunction with BASH congress in London 28th June – 1st July. 2009.
- Shalini Singh, Jyoti Zack, Mr. Dinesh Kumar , Dr. Mukhtar A. Khan, Dr. Sanjay K. Srivastava, Prof. Daman Saluja, Dr. P. K. Singh. "DNA Hybridization on Modified Nanostructured Silicon Surfaces" at the Biomaterials Asia conference in Hong Kong, 5-9 April 2009.
- Jyoti Zack, Daman Saluja. 'Mutation in Acute Myeloid Leukaemia -1 gene result in down regulation of RUNX3 and LAT gene expression' 13TH Annual Genome meeting of HUGO, Human Genome Meeting 2008, India; September 27th - September 30th 2008.
- Shuchita Wason, Arush Chabra, Seema Singh, Uma Chaudhary, *Mridula Bose, Daman saluja. Identification of substrates of signal peptidase II (*lspA*) enzyme of *Mycobacterium tuberculosis* (H37Rv) through biochemical approach. keystone symposia, USA 2007
- Vineet Kumar, Mashook Ali, Harish Batra, Leena Vig, Nidhi Bansal, Daman Saluja, Differential regulation of neuronal genes by the chromatin remodelling protein MTGR1 and ETO involved in the Neurodegenerative diseases pathway by microarray analysis. presentation at EMBO conference on

Chromatin and Epigenetics held at EMBL Heidelberg May3-6, 2007

- Achchhe Lal Patel, Divya Sachdev, Aruna Mittal, Daman Saluja. 'Cloning, Expression, Purification And Characterization Of Pkn1 And Momp- Potential Vaccine Candidates For Chlamydia Trachomatis' at "17th International Society for Sexually transmitted disease research (July 29th-August 1st 2007)", Seattle , Washington, USA.
- Nidhi Bansal, Leena Vig, Raisha, Vani Brahmachari and DamanSaluja. "Characterization of Domain of Interaction Between Human p53 and Human Sin3B Using Yeast Two Hybrid Assays " presented at "The American Society for Cell Biology, 47th Annual Meeting, 2007" at Washington, DC, USA.
- Harish Batra, Vineet Kumar and Daman Saluja, Cloning, Expression, and Identification of Interacting Partner Proteins of Transcription Corepressor Human Sin3B. presented at "The American Society for Cell Biology, 47th Annual Meeting, 2007" at Washington, DC, USA.
- Mashook Ali, Vineet Kumar, Poonam Sachdeva, Uma Chaudhary, Daman Saluja "Identification of novel mutations in *mtr* locus of clinical isolates of *Neisseria gonorrhoeae*" in 16th European Congress of Clinical Microbiology and Infectious Diseases held in Nice/France from 1st April to 4th April 2006. Clin Microbiol Infect 2006;12 Suppl.

Public Service / University Service / Consulting Activity

--N.A--

Professional Societies Memberships

- Life member of Society of Biological chemist of India (SBCI)
- Life member of Indian society for Antimicrobial chemotherapy (ISAC)
- Life member of Society Of Biotechnology
- Life member of Association of Clinical Chemists of India (ACC)
- Life member of Association of Cancer Research.

Projects (Major Grants / Collaborations)

DETAILS OF CURRENT PROJECTS:

Name of the Principal Investigator:	Dr. Daman Saluja
Title :	Understanding the role of SIN3, A global transcription regulator in nongenotoxic stress mediated modulation of gene expression.
Funding Agency:	DST
Grant Sanctioned:	78, 15,400
Period :	Three years (2016-19)
Name of the Principal Investigator:	Dr. Daman Saluja
Title :	Development of a hand held molecular point-of-care test device for infectious diseases (Indo-Canada Impact project).
Funding Agency:	DBT
Grant Sanctioned:	312.13 Lakh
Period :	Two years (2017-19)

RECENTLY COMPLETED PROJECTS:

Name of the Principal Investigator: Dr. Daman Saluja

Title : Understanding the differential structure-function relationship of three paired amphipathic helices (PAH domains) of human Sin3B Protein and their role in differential interaction with transcription factors.

Funding Agency : Council of Scientific and Industrial Research
Grant Sanctioned: 18 Lakhs
Period: (October 2013–October .2016)

Name of the Principal Investigator: Dr. Daman Saluja

Title : “Development and clinical evaluation of PCR based method for detection of *Trichomonas vaginalis* and further standardization of Triplex PCR for simultaneous detection of *Trichomonas vaginalis*, *Chlamydia trachomatis* and *Neisseria gonorrhoea*”

Funding Agency : Indian Council of Medical Research (ICMR)
Grant Sanctioned: about Rs 27 lakhs
Period : Three Years

Name of the Principal Investigator: Dr. Daman Saluja

Title : Loop mediated amplification (LAMP) based method for detection of active and MDR/XDR pulmonary tuberculosis.

Funding Agency: Department of Biotechnology (DBT)
Grant Sanctioned: 22.87 Lakhs (appx)
Period : Two years (August 2011 – August 2013)

Name of the Principal Investigator: Dr. Daman Saluja

Title : Designing of Cost Effective, Quick and Easy visualization method for detection of CML,AML and ALL leukemia patients using Molecular Beacon

Funding Agency: Department of Biotechnology (DBT)
Grant sanctioned: 27.08 Lakhs
Period : (March2011- September 2014), 3 years

Name of the Principal Investigator: Dr. Daman Saluja

Title : “Understanding the role of Human Sin3B in P53 – mediated gene repression”

Funding Agency : CSIR
Period (Dec.2010–Dec.2013)

Name of the Principal Investigator: Dr. Daman Saluja

Title : “Development and evaluation of chip-based multiplex diagnostic test for HPV, *C trachomatis* *N gonorrhoeae* and genital tuberculosis”

Funding Agency: University of Delhi

Grant Sanctioned:	26.8 Lakhs
Period :	(Jan 2012 – March 2014)

Other Details

Ph.D Thesis awarded:

Uma Choudhary: 2001 Polymerase chain reaction based diagnostic analysis of Infectious diseases. Rakesh Singh Dhanda: 2004 Differential expression of human ETO gene family members and their putative role in acute myeloid leukemia M2

Poonam Sachdeva: 2008 Multiplex PCR based diagnostic assay for *Chlamydia trachomatis*. Understanding the molecular mechanism of antibiotic resistance in *C trachomatis* and *Neisseria gonorrhoeae*. 2008

Alok Mishra: 2008 Transcriptional regulation of human papillomavirus oncogene expression in oral carcinoma.

Harish Batra: 2008 Identification and functional characterization of human homolog of Sin3B.

Pallavi Gupta : 2009 PU.1 mediated transcriptional regulation in hematopoietic stem cells

Shvetambri: (2009) Studies on the role of Acetoxy Drug:Protein transacetylase in hypoxia induced Pulmonary hypertention.

Vineet Kumar: **2009** Functional characterization of human MTGR1 : Interaction with hSin3b and its role in gene regulation of cell differentiation and growth.

Mashook Ali :**2010** Gene expression profiling of ETO (MTG8) expressing cells and its interaction with chromatin remodelling protein- human Sin3B.

Achhchhe Lal Patel **2011**: Development of a diagnostic assay for detection of *Chlamydia trachomatis* And Characterization of chlamydial protein Pkn1 as a potential Immunogen

Ms Suchita Wason **2011**: “Bio-chemical Characterization of Signal peptidase II enzyme of *Mycobacterium tuberculosis* (H37Rv); Expression, cloning & Purification of the enzyme and substrates”

Ms Nidhi Bansal **2012**: Understanding the Role of Human Sin3B in p53-mediated Gene Repression.

Ms Leena Vig **2012** : Interaction of Human Sin3B with KLF11 and CBFA2T2 proteins and their effect on gene expression

Rakesh Pathak **2012** : Role of IspA Gene in the Biology and Pathogenesis of *Mycobacterium tuberculosis*

Jyoti Zack **2013** : To study the mechanism of Runx 1 and its mutants in DNA binding and altered gene expression .

Divya : **2013** : Development of diagnostic assay for co-detection of *Neisseria gonorrhoeae* and *Chlamydia trachomatis* and elucidating the molecular mechanism of antimicrobial resistance in *Neisseria gonorrhoeae*.

- Manoj Nimesh 2014: Development and Clinical Evaluation of PCR and LAMP Assay Targeting *sdaA* Gene of *Mycobacterium tuberculosis* for Diagnosis of Pulmonary Tuberculosis.
- Rama Kadam 2014: Elucidating the role of human Sin3B in p53 mediated gene regulation and DNA damage response pathways.
- Saurabh Singh 2014: Glycolytic Inhibitor 2-Deoxy-D-Glucose (2-Dg) As An Energy Restriction Mimetic Agent In Mice: Effects On Physiology, Behaviour And Carcinogenesis.
- Subash Sonkar 2015: “Designing and Clinical Evaluation of NAAT Based Diagnostics Assays for Detection of *Trichomonas vaginalis*”
- Prashant Kumar 2015: Mining Genome of *Chlamydia trachomatis* to identify vaccine candidates
- Sharad Sawney 2015: Antiproliferating Activity of Esculetin on Acute Myeloid leukemic cell line- Potential Role in Therapy
- Shilpi Gupta 2015: Regulatory role of cellular transcription factors AP 1 and NF-KB during HPV mediated tongue carcinoma.
- Shilpi Mittal 2016: “Differential role of Sin3A and Sin3B in gene regulation”
- Rashi 2016: Development of diagnostic assay for detection of AML-ETO translocation [t(8:21)] in AML patients and to elucidate the mechanism of apoptosis mediated by Esculetin in cells having AML- ETO translocation.

Current Ph.D students:

Sunita Jaitilly: “ Designing of cost effective, quick and easy visualization method for detection of CML patients using Molecular Beacons”

Deepali Joon : Development of lateral flow assay for the detection of mycobacterium tuberculosis.

Pooja Tanwer: Identification and functional characterization of sRNA in *Neisseria gonorrhoeae*.

Renu Pandey : Deciphering the role of SIN-3 in ROS mediated autophagy and aging in *Caenorhabditis elegans*.

Alka: Elucidating various inhibitors against Glutamate racemase of *Mycobacterium tuberculosis*.

Apoorva: p73 mediated gene regulation in cancer cells.

Geetika: Development of point of care diagnostic for sexually transmitted diseases

Dinesh: role of micro RNA in Cardio vascular diseases

(Signature of Faculty Member)

(Signature & Stamp
of Head of the Department)