

University Faculty Details Page on DU Web-site

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्रधातः "

Title Dr	First Name Tapasya	Last Name	Srivastava	Pho
Designation	ASSISTANT PROFESSOR			
Department	GENETICS			
Address	Department of Genetics			
	University of Delhi South Can	npus		
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	New Delhi-110021			
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Residence	-			
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Fax				
Email	tapasya@south.du.ac.in			
Web-Page				
Educational Qualifications				
Subject	Institution	Year		Details
Ph.D.	All India Institute of Medical	2004		
	Sciences			
MSc Biochemistry	Hamdard University	1998		Ist div
BSc Zoology	Delhi University	1996		Ist div
Any other qualification				
Organization / Institution	Designation	Duration		Role
All India Institute of	Research Associate	2008-2009	9	Research and mentoring
Medical Sciences				-
All India Institute of	Young Scientist fellow	2005-2008	8	Independent SERC-DST fast track project
Medical Sciences				•
Recearch Interests / Specialis	zation			

Research Interests / Specialization

Regulation of Hypoxia signaling

Response to cellular stress and epigenetic regulation of genomic instability

Modulation of drug response in hypoxic stress

Cancer genetics

Teaching Experience (Subject / Courses Taught)

Regulation of Gene expression: Epigenetics

Concepts in Biochemistry

Molecular Biology: Replication, Recombination and Repair

Cancer Biology and Genetics

Immunology

Honors & Awards

Fellowship

Indo-US Science and Technology Fellowship 2011 for conducting research work in University of Minnesota

Young Scientist Fellowship awarded by Fast-track SERC-DST (2005-2008)

Senior Research fellowship (2004) awarded by Council of Scientific & Industrial Research,

Junior Research fellowship (1999-2001) by Lady Tata Memorial Trust, Mumbai, India

Honours

Elected member, National Academy of Medical Sciences

Awards

SERB Women's Excellence in science research award 2013 with grant-in-aid

INSA young scientist medal award for Medical Sciences 2010

Awarded the Best Poster Award in International Symposium on Cancer Biology, 2007 organized by National Institute of Immunology, New Delhi

Awarded the Young Investigator Award in ACBICON 2007 organized by Association of Clinical Biochemist of India

Publications (LAST FIVE YEARS)

In Indexed/Peer Reviewed Journal (last 5 years) (*corresponding author)

Gulati P. Kaur P, Rajam MV, **Srivastava T**, Mishra P, Islam SS. Single-wall carbon nanotube based electrochemical immunoassay for leukemia detection 10.1016/j.ab.2018.07.020.

Gulati P, Kaur P, Rajam MV, **Srivastava T**, Ali MA, Mishra P, Islam SS. Leukemia biomarker detection by using photoconductive response of CNT elect transfer induced Fermi level fluctuation. **Sensors and Actuators B 2018** Volume 270, Pages 45-55. https://doi.org/10.1016/j.snb.2018.05.019.

Singh P, Jenkins LM, Horst B, Alers V, Pradhan S, Kaur P, **Srivastava T**, Hempel N, Győrffy B, Broude EV, Lee NY, Mythreye K. Inhibin is a novel paracri **Cancer Res. 2018** Mar 13. pii: canres.2316.2017. doi: 10.1158/0008-5472.CAN-17-2316. [Epub ahead of print] PubMed PMID: 29535220.

Pandey N, Pal S, Sharma LK, Guleria R, Mohan A, **Srivastava T***. SNP rs16969968 as a Strong Predictor of Nicotine Dependence and Lung Cancer Risk **2017** Nov 26;18(11):3073-3079. PubMed PMID: 29172281; PubMed Central PMCID: PMC5773793.

Prasad P, Mittal SA, Chongtham J, Mohanty S, **Srivastava T***. Hypoxia-Mediated Epigenetic Regulation of Stemness in Brain Tumor Cells. **Stem Cells.** Epub 2017 Apr 24. PubMed PMID: 28376560.

Pradhan S, Mahajan D, Kaur P, Pandey N, Sharma C, **Srivastava T***. Scriptaid overcomes hypoxia-induced cisplatin resistance in both wild-type and n 1;7(44):71841-71855. doi: 10.18632/oncotarget.12378. PubMed PMID: 27708247; PubMed Central PMCID: PMC5342127.

Pandey N, Dhiman S, **Srivastava T***, Majumder S*. Transition metal oxide nanoparticles are effective in inhibiting lung cancer cell survival in the hyporatoric properties and properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in inhibiting lung cancer cell survival in the hyporatoric properties are effective in the hyporatoric properties are effective in the hyporatoric properties are effe

Mittal S, Pradhan S, **Srivastava T***. Recent advances in targeted therapy for glioblastoma. **Expert Rev Neurother. 2015**; 15(8):935-46. doi: 10.1586/1 PubMed PMID: 26118735.

Tyagi G, Pradhan S, **Srivastava T***, Mehrotra R*. Nucleic acid binding properties of allicin: spectroscopic analysis and estimation of anti-tumor poten doi:10.1016/j.bbagen.2013.09.007. Epub 2013 Sep 13. PubMed PMID: 24041991.

Articles (last 5 years)

Chapters in books/ proceedings

1. **T Srivastava** and LM Srivastava; Complement System; Textbook of Biochemistry, Biotechnology, Allied and Molecular Medicine; ed: GP Talwar, SE New Delhi 4th edition, 2016: 1227-1237.

Conference Presentations (last 5 years)

As Invited Speaker at World Neurocongress-2017, Aligarh Muslim University, Aligarh, 9th and 10th December, 2017

As Invited Speaker at Annual Meeting of Indian Academy of Neurosciences in Odisha from October 29-31, 2017.

Jonitha Chongtham and Tapasya Srivastava Poster presentation Regulation of Cornichon Homolog Protein (CNIH1) in glioma. International congress corresponding author

As Invited Speaker at 1st international conference on 'Human Implications of Biotechnology', Centre for Biological Sciences, Central University of Speaker.

As Invited Speaker at 12th International Conference of Asian Clinical Oncology Society (ACOS) and 35th Annual Convention of Indian Association for April, 2016. As Speaker

Molecular signatures of cancer and biomarker discovery: an open field in a nutshell. 40th National Conference of Association of Clinical Biochemis Speaker

Invited lecures by academic institution (last five years)

Invited Speaker at National seminar on Genes, Genetics and Epigenomics being organised by Human Genetics department, Guru Nanak Dev University

Invited speaker at 3rd meeting on "Current Trends in Hypoxia Research" at Indian Institute of Technology, New Delhi on 29th January, 2018

Speaker at the Summer Undergraduate Research Programme (SURP-2015) Lecture series at SURP-2015 programme at ACBR, 10th July 2015, Delhi U

Ethical Issues in Biomedical Research. Continuing Medical Education (CME) Program on Research Methodology by Bakson Homoeopathic Medical C

Relevance of hypoxia in the tumor microenvironment. Lecture series at SURP-2013 programme at ACBR, Delhi University, New Delhi.

Addressing genetic heterogeneity in tumor therapy. Department of Biochemistry, Sir Ganga Ram Hospital, New Delhi, 2013

Tumor and its microenvironment: Two smoking guns, guilt by association. Hansraj College. Annual Day Celebration, Department of Zoology, 6th ma

Total Publication Profile

1. Books/Monographs (Authored/Edited)

Chapters in books/ proceedings

T Srivastava and LM Srivastava; Complement System; Textbook of Biochemistry, Biotechnology, Allied and Molecular Medicine; ed: GP Talwar, SE Hasnain and SK Sarin; Prentice-Hall of India Pvt Ltd, New Delhi 4th edition, 2016: 1227-1237.

Srivastava T, Chosdol K, Misra A, Chattopadhyay P, Sarkar C, Mahapatra AK and <u>Sinha S</u>. Molecular Staging of Glial Tumors. **Proceeding of 14**th on 'Emerging Frontiers in Management of Advanced Stage Cancers 2008.

T Srivastava and K Chosdol. The Muscular System; in E-book on Biochemistry, **National Institute of Science Communication and Information R** Govt of India), http://nsdl.niscair.res.in/ 2007.

T Srivastava and K Chosdol. Clinical Enzymology; in E-book on Biochemistry, National Institute of Science Communication and Information Res Govt of India), http://nsdl.niscair.res.in/ 2007.

T Srivastava and S Sinha. The Complement System; in E-book on Biochemistry, **National Institute of Science Communication and Information R** Govt of India), http://nsdl.niscair.res.in/ 2007.

T Srivastava and S Sinha Antigens: in E-book on Biochemistry, National Institute of Science Communication and Information Resources (Counc http://nsdl.niscair.res.in/ 2007.

T Srivastava and S Sinha An Overview of Immunity: Innate And Adaptive Immunity: in **E-book** on Biochemistry, **National Institute of Science Con** Scientific and Industrial Research, Govt of India), http://nsdl.niscair.res.in/ 2007.

T Srivastava and S Sinha; Elementary Knowledge of Major Histocompatibility Complex and HLA Typing, in E-book on Biochemistry, National Ins Resources (Council of Scientific and Industrial Research, Govt of India), http://nsdl.niscair.res.in/ 2007

A Makkar T Srivastava and LM Srivastava; Human Genome Project;. Biochemistry for Medical Students ed L.M. Srivastava. CBS publishers and

K.R. Raju and **T Srivastava;** Specialized Techniques: Immunodiffusion techniques, Radio Immunoassay (RIA) and ELISA; in **Essentials of Practical** CBS publishers and Distributers, New Delhi, 1st edition, 2003: 225-230.

B. Naganna and **T. Srivastava** ; Plasma Proteins in **Textbook of Biochemistry and Human Biology.** ed G.P. Talwar and L.M. Srivastava. Prentice 74.

LM Srivastava, V Anand and **T. Srivastava**; Complement system; in **Textbook of Biochemistry and Human Biology.** ed G.P. Talwar, L.M. Srivast edition, 2003: 1020-1029.

2. All Research papers published in Refereed/Peer Reviewed Journals

Gulati P. Kaur P, Rajam MV, Srivastava T, Mishra P, Islam SS. Single-wall carbon nanotube based electrochemical immunoassay for leukemia de 10.1016/j.ab.2018.07.020.

Gulati P, Kaur P, Rajam MV, Srivastava T, Ali MA, Mishra P, Islam SS. Leukemia biomarker detection by using photoconductive response of CNT charge transfer induced Fermi level fluctuation. Sensors and Actuators B 2018 Volume 270, Pages 45-55. https://doi.org/10.1016/j.snb.2018.0

Singh P, Jenkins LM, Horst B, Alers V, Pradhan S, Kaur P, Srivastava T, Hempel N, Győrffy B, Broude EV, Lee NY, Mythreye K. Inhibin is a novel p metastasis. Cancer Res. 2018 Mar 13. pii: canres.2316.2017. doi: 10.1158/0008-5472.CAN-17-2316. [Epub ahead of print] PubMed PMID: 2953

Pandey N, Pal S, Sharma LK, Guleria R, Mohan A, Srivastava T*. SNP rs16969968 as a Strong Predictor of Nicotine Dependence and Lung Cance Prev. 2017 Nov 26;18(11):3073-3079. PubMed PMID: 29172281; PubMed Central PMCID: PMC5773793.

Prasad P, Mittal SA, Chongtham J, Mohanty S, Srivastava T*. Hypoxia-Mediated Epigenetic Regulation of Stemness in Brain Tumor Cells. Stem (10.1002/stem.2621. Epub 2017 Apr 24. PubMed PMID: 28376560.

Pradhan S, Mahajan D, Kaur P, Pandey N, Sharma C, Srivastava T*. Scriptaid overcomes hypoxia-induced cisplatin resistance in both wild-type Nov 1;7(44):71841-71855. doi: 10.18632/oncotarget.12378. PubMed PMID: 27708247; PubMed Central PMCID: PMC5342127.

Pandey N, Dhiman S, Srivastava T*, Majumder S*. Transition metal oxide nanoparticles are effective in inhibiting lung cancer cell survival in the Interact. 2016 Jul 25;254:221-30. doi: 10.1016/j.cbi.2016.06.006. Epub 2016 Jun 4. PubMed PMID: 27270449.

Mittal S, Pradhan S, Srivastava T*. Recent advances in targeted therapy for glioblastoma. Expert Rev Neurother. 2015; 15(8):935-46. doi: 10.15 Review. PubMed PMID: 26118735.

Tyagi G, Pradhan S, Srivastava T* and Mehrotra R*, Nucleic acid binding properties of allicin; spectroscopic analysis and estimation of anti-tum

1840(1),350-356,2014.

Srivastava T, Now Percieving: The complete genome package. Biol Med J 2014, 6:1 (Editorial)
Srivastava T, Molecular targets for therapy in malignant gliomas. Journal of Proteins and Proteomics 2010 Vol 1, No 2, 65-69.

Jha P, Agarwal S, Pathak P, Srivastava A, Suri V, Sharma MC, Chosdol K, Srivastava T, Gupta D, Gupta A, Suri A, Sarkar C. Heterozygosity status of

Pal A¹, Srivastava T¹, Sharma MK, Mehndiratta M, Das P, Sinha S, Chattopadhyay P. Aberrant methylation and transcriptional mobilization of Aluhypoxia. J Cell Mol Med. 2010 Nov;14(11):2646-54 [¹ equal authorship]

expression and EGFR amplification in patients with astrocytic tumors: novel series from India. Cancer Genet Cytogenet. 2010 Apr 15;198(2):12

Chosdol K, Misra A, Puri S, Srivastava T, Sarkar C, Mahapatra AK and Sinha S. Frequent LOH and altered expression of tumor supressor FAT iden 9:5.

Srivastava T, Chosdol K, Chattopadhyay P, Mahapatra AK, Sarkar C, Sinha S. Frequent loss of heterozygosity encompassing the hMLH1 locus in left; Feb; 81(3):249-55.

Srivastava T, Chosdol K, Misra A, Chattopadhyay P, Sarkar C, Mahapatra AK and Sinha S. The hMLH1 gene locus shows frequent loss of heterozy Clin Biochem Vol 27 Pg 354.

Srivastava T, Seth A, Datta K, Chosdol K, Chattopadhyay P, Sinha S. Inter-alu PCR detects high frequency of genetic alterations in glioma cells ex (4), 683–689. (Cover Page Article)

Srivastava T, Chattopadhyay P, Mahapatra AK, Sarkar C and Sinha S. Increased hMSH2 Protein Expression in Glioblastoma Multiforme. J Neuro-

Datta K, Shah P, Srivastava T, Mathur SG, Chattopadhyay P, Sinha S. Sensitizing glioma cells to cisplatin by abrogating the p53 response with an Aug; 11(8): 525-531.

Datta K, Mathur SG, Srivastava T, Shah P, Chattopadhyay P, Sinha S. Hydroxylamine potentiates the effect of low dose hydrogen peroxide in glic 2003 Dec;35(12):1639-44.

Datta K, Babbar P, Srivastava T, Sinha S, Chattopadhyay P. p53 dependent apoptosis in glioma cell lines in response to hydrogen peroxide induc Feb;34(2):148-57.

Misra A, Chosdol K, Srivastava T, Chattopadhyay P, Mahapatra AK, Sarkar C, Sinha S. Glial tumorigenesis: Molecular alterations and identificatio No.1, 49-72

3

- a) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals
- b) Research papers published in Refereed/Peer Reviewed Conferences

Pradhan S, Pandey N, Sharma MK, Srivastava T. Histone deacetylase inhibitor sensitizes non-Small cell lung cancer cells to low dose c 8, Supplement 1; 41.

Pandey N, Mohan A, **Srivastava T.** Genetic variant in a5 cholinergic nicotinic receptor subunit gene CHRNA5 at 15q25 (rs16969968): a **Jan 2012, Vol 8, Supplement 1; 41.**

Prasad P, Sharma M, Sinha S, Srivastava T. Alu mediated regulation of FBOX proteins in hypoxia. J Can Res Ther. Jan 2012, Vol 8, Sup.

Srivastava T, Chosdol K, Sarkar C, Mahapatra AK, Sinha S. Heterozygosity analysis at mismatch repair gene loci reveals frequent LOH of 2008 Vol. 27 – No. 3 (208).

Chosdol K, Misra A, Puri S, **Srivastava T**, Chattopadhyay P, Sarkar C, Mahapatra A, Sinha S. Low expression of FAT, a human homolog astrocytic tumors **Clin Neuropathol, 2008** Vol. 27 – No. 3 (208).

Srivastava T, Chosdol K, Misra A, Chattopadhyay P, Sarkar C, Mahapatra AK and Sinha S. The hMLH1 gene locus shows frequent loss of Indian J Clin Biochem Vol 27 Pg 354.

c) Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences (last 3 years only)

Sharma MK, **Srivastava T**, Husain SA, Bhagat M, Chattopadhyay P, Chosdol K, Sinha S. 'A differential behavior of *HIF*a and its downstre glioma cell lines varying in their p53 status' at Advances in Hypoxic Signaling: From Bench to Bedside, Banff, Alberta, Canada 2012

Srivastava T, Pal A, Sharma MK, Chattopadhyay P and Sinha S; An in vitro model of genomic instability under hypoxia reveals selection at Mechanisms and Models of Cancer, August 2010 at Cold Spring Harbor Laboratory, New York.

Public Service/University Service /Consulting Activity

Member of the Institutional Ethics Committee of University of Delhi South Campus (till 2017)
Member of the Institutional Committee of Stem Cell Research, National Institute of Immunology
Member of the Institutional Ethics Committee of CCRH, Ayush.

Professional Societies Memberships

Project (Major/Grants/Collaborations)

Research Grant

Elucudating the molecular basis and functional relevance of hypoxia-mediated aberrant methylation in glioma cells funded by SERB

Specificity and complexity of Integrin actin signaling in tumor cells funded by DBT

Targeting the tumor microenvironment: quest for novel targets for cancer therapy funded by ICMR 2012-2015

Role of HDAC inhibitor(s) in modulating the response to chemotherapeutic agent(s) in cancer cells funded by SERC-DST 2012-2015

Other Details

Research Guidance

List against each head (If applicable)

- 1. Supervision of awarded Doctoral Thesis: Three
- 2. Supervision of submitted Doctoral Thesis: One
- 3. Supervision of Doctoral Thesis, under progress: Three
- 4. Supervision of awarded M.Phil dissertations: Two
- 5. Supervision of M.Phil dissertations, under progress: **None**

Signature of Faculty Member

Signature & Stamp of Head of the Department