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Education

1998 Bachelor of Science (BSc), Ewing Christian College, Allahabad University, Allahabad, India
2000 Master of Science (MSc), School of Life Sciences, Jawaharlal Nehru University, New Delhi, India
2003 Doctor of Philosophy (PhD), School of Life Sciences, Jawaharlal Nehru University, New Delhi, India

Positions and Employment

2011 – Present	Principal Investigator, Cancer Science Institute of Singapore
2011 – Present	Assistant Professor of Biochemistry, National University of Singapore
2012 – Present	Member of National University Cancer Institute (NCIS), Singapore
2003 – 2011	Research Associate, Department of Biochemistry and Molecular Genetics, University of Virginia, Charlottesville, USA

Publications

1. TIP60 inhibits metastasis by ablating DNMT1-Snail2 driven epithelial-mesenchymal transition program. Zhang Y, Subbaiah VK, Rajagopalan D, Tham CY, Abdullah LN, Toh TB, Gong M, Tan TZ, Jadhav SP, Pandey AK, Karnani N, Chow EK, Thiery JP and **Jha S**. J Mol Cell Biol 2016 Oct; 8(5), 384–399. (*Editorial highlight: New factors involved in tumorigenesis* <http://jmc.oxfordjournals.org/content/8/5/371.full.pdf+html>)
2. E3 ligase EDD1/UBR5 is utilized by the HPV E6 oncogene to destabilize tumor suppressor TIP60. Subbaiah VK, Zhang Y, Rajagopalan D, Abdullah LN, Yeo-Teh NS, Tomaić V, Banks L, Myers MP, Chow EK, **Jha S**. Oncogene. 2016 Apr 21;35(16):2062-74.
3. TIP60-miR-22 axis as a prognostic marker of breast cancer progression. Pandey AK, Zhang Y, Zhang S, Li Y, Tucker-Kellogg G, Yang H, **Jha S**. Oncotarget. 2015 Dec 1;6(38):41290-306.
4. Negative regulation of signal transducer and activator of transcription-3 signalling cascade by lupeol inhibits growth and induces apoptosis in hepatocellular carcinoma cells. Siveen K.S., Nguyen A., Lee J., Li F., Singh S.S., Kumar A.P., Low G., **Jha S.**, Tergaonkar V., Ahn K.S., and Sethi G. Br J Cancer. 2014 Sep 23;111(7):1327-37
5. Tip60 degradation by adenovirus relieves transcriptional repression of viral transcriptional activator E1A. Gupta A, **Jha S**, Engel DA, Ornelles DA, Dutta A. Oncogene. 2013 Oct 17;32(42):5017-25
6. RVBs are required for assembling a functional TIP60 complex. **Jha S***, Gupta A*, Dar A, Dutta A. Mol Cell Biol. 2013 Mar;33(6):1164-74.*Co-first authors
7. CRL4(Cdt2) regulates cell proliferation and histone gene expression by targeting PR-Set7/Set8 for degradation. Abbas T, Shibata E, Park J, **Jha S**, Karnani N, Dutta A. Mol Cell. 2010 Oct 8; 40(1):9-21
8. Destabilization of TIP60 by human papillomavirus E6 results in attenuation of TIP60-dependent transcriptional regulation and apoptotic pathway. **Jha S**, Vande Pol S, Banerjee NS, Dutta AB, Chow LT, Dutta A. Mol Cell. 2010 Jun 11;38(5):700-11. (*Highlight: "Faculty of 1000 Biology", 17th June 2010*)

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9. RVB1/RVB2: running rings around molecular biology. **Jha S**, Dutta A. Mol Cell. 2009 Jun 12;34(5):521-33.
10. Architecture of the pontin/reptin complex, essential in the assembly of several macromolecular complexes. Torreira E, **Jha S**, López-Blanco JR, Arias-Palomo E, Chacón P, Cañas C, Ayora S, Dutta A, Llorca O. Structure. 2008 Oct 8;16(10):1511-20.
11. Human Rvb1/Tip49 is required for the histone acetyltransferase activity of Tip60/NuA4 and for the downregulation of phosphorylation on H2AX after DNA damage. **Jha S**, Shibata E, Dutta A. Mol Cell Biol. 2008 Apr;28(8):2690-700.
12. Mcm10 and And-1/CTF4 recruit DNA polymerase alpha to chromatin for initiation of DNA replication. Zhu W*, Ukomadu C*, **Jha S***, Senga T, Dhar SK, Wohlschlegel JA, Nutt LK, Kornbluth S, Dutta A. Genes Dev. 2007 Sep 15;21(18):2288-99.*Co-first authors
13. Autocatalytic phosphorylation of CDK2 at the activating Thr160. Abbas T, **Jha S**, Sherman NE, Dutta A. Cell Cycle. 2007 Apr 1;6(7):843-52.
14. Alanine scanning of transmembrane helix 11 of Cdr1p ABC antifungal efflux pump of Candida albicans: identification of amino acid residues critical for drug efflux. Saini P, Prasad T, Gaur NA, Shukla S, **Jha S**, Komath SS, Khan LA, Haq QM, Prasad R. J Antimicrob Chemother. 2005 Jul;56(1):77-86. Epub 2005 Jun 3.
15. Functional characterization of N-terminal nucleotide binding domain (NBD-1) of a major ABC drug transporter Cdr1p of Candida albicans: uncommon but conserved Trp326 of Walker B is important for ATP binding. Rai V, Shukla S, **Jha S**, Komath SS, Prasad R. Biochemistry. 2005 May 3;44(17):6650-61.
16. Rvb1p/Rvb2p recruit Arp5p and assemble a functional Ino80 chromatin remodeling complex. Jónsson ZO*, **Jha S***, Wohlschlegel JA, Dutta A. Mol Cell. 2004 Nov 5;16(3):465-77.*Co-first authors
17. ABC multidrug transporter Cdr1p of Candida albicans has divergent nucleotide-binding domains which display functional asymmetry. **Jha S**, Dabas N, Karnani N, Saini P, Prasad R. FEMS Yeast Res. 2004 Oct;5(1):63-72.
18. SRE1 and SRE2 are two specific steroid-responsive modules of Candida drug resistance gene 1 (CDR1) promoter. Karnani N, Gaur NA, **Jha S**, Puri N, Krishnamurthy S, Goswami SK, Mukhopadhyay G, Prasad R. Yeast. 2004 Feb;21(3):219-39.
19. Functional characterization of Candida albicans ABC transporter Cdr1p. Shukla S, Saini P, Smriti, **Jha S**, Ambudkar SV, Prasad R. Eukaryot Cell. 2003 Dec;2(6):1361-75.
20. Covalent modification of cysteine 193 impairs ATPase function of nucleotide-binding domain of a Candida drug efflux pump. **Jha S**, Karnani N, Lynn AM, Prasad R. Biochem Biophys Res Commun. 2003 Oct 24;310(3):869-75.
21. Purification and characterization of the N-terminal nucleotide binding domain of an ABC drug transporter of Candida albicans: uncommon cysteine 193 of Walker A is critical for ATP hydrolysis. **Jha S**, Karnani N, Dhar SK, Mukhopadhyay K, Shukla S, Saini P, Mukhopadhyay G, Prasad R. Biochemistry. 2003 Sep 16;42(36):10822-32.

Conference and Meeting (since Oct 2011)

Selected Talks

Oct 20-21, 2016	International Conference on Human Papillomavirus held at Chicago, USA
Oct 19, 2016	Department of Biochemistry and Molecular Genetics, Feinberg School of Medicine, Northwestern University, Chicago, USA
July 18-23, 2016	DNA Tumor Virus Meeting 2016 held at Montreal (Quebec), Canada.

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Jun 15-19, 2016	WHO-IARC, 4 th Workshop on Emerging Issues in Oncogenic Virus Research held at Manduria, Italy.
Jun 12-17, 2016	FASEB Scientific Research Conferences, Ubiquitin & Cellular Regulation held at Big Sky, Montana, USA.
Apr 18- 22, 2016	Cold Spring Harbor- Asia, Ubiquitin Family, Autophagy and Diseases Held at Suzhou, China.
Dec 3-4, 2015	Asian Conference on Transcription held at Center for Life Science, NUS, Singapore.
Nov 2-4, 2015	Frontiers in Cancer Science held at University Cultural Center, NUS, Singapore.
July 21-26, 2015	DNA Tumor Virus Meeting 2015 held at International Centre For Genetic Engineering And Biotechnology (ICGEB), Trieste, Italy.
Sep 25, 2014	CSI-KI Cancer Symposium held at Karolinska Institute, Stockholm, Sweden.
July 23-24, 2014	7 th Annual Scientific Meeting, Singapore Gastric Cancer Consortium, held at NUHS Tower Block, Singapore
October 9-11, 2013	International Conference of the Korean Society for Molecular and Cellular Biology (KSMCB), held at COEX Center in Seoul, Korea.

Meetings Organized

2016	Member, 3 rd NCIS Annual Research Meeting organizing committee
2015	Member, 2 nd NCIS Annual Research Meeting organizing committee
2014 - 2015	Co-organizer, Biochemistry Seminar Series
2013 - Present	Member, Frontiers in Cancer Science (FCS) organizing committee
2013 - 2015	Co-organizer, Biochemistry Journal Club
2013 - Present	Organizer, Genomic Instability (GI) meeting
2012 - Present	Organizer, Chromatin Remodeling Group (CRG) meeting

Editorial, Ad-Hoc Reviewer and Services

Editorial

2011 - Present	Associate Member, Faculty of 1000 (F1000 Biology)
2015 - Present	Review Editor, Frontiers in Cell and Developmental Biology
2016 - Present	Editor, Advances in Biochemistry and Biotechnology

Journal Reviewer

2015 – Present	Journal of Clinical Investigation
2011 – Present	Oncogene
2016 – Present	PLOS Pathogens
2016 – Present	Oncotarget
2016 – Present	Scientific Reports
2016 – Present	BMC Cell Biology
2016 – Present	BBA-Gene Regulatory Mechanisms
2015 – Present	DNA and Cell Biology
2016 – Present	Tumor and Microenvironment (TME)

Grant Reviewer

2016 – Present	NUHS Allied Health and Nursing Grant
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2016 – Present	The Wellcome Trust/DBT India Alliance (International)
2015 – Present	NTU AcRF MOE Tier 1 grant
2014 – Present	NUHS Seed Fund for Basic Science Research Grant Call
2014 – Present	NUHS Bench-to-Bedside (B2B) & Bench-to-Bedside-To-Product (BBP)
2013 – Present	NUHS AcRF MOE Tier 1 grant

Committee

2014 – Present	Member, CSI Graduate Program
2014	Chair, Biochemistry Staff Welfare
2013 – 2015	Chair, CSI Membership Program
2012 – Present	Member, CSI executive committee

Judge

2015	Poster Abstract submitted for 3 rd NCIS Annual Meeting (NCAM)
2014	Oral presentation at the Young Scientist Symposium 2014 (YSS2014)
2012	Poster Awards at the Frontiers on Cancer Science 5 th -8 th Nov 2012, Singapore
2012	Oral presentation at the 5 th Biochemistry Student Symposium 27 th Sep 2012, Department of Biochemistry, National University of Singapore

Teaching activities at National University of Singapore

Academic Year/ Semester	Module taught	
2012- 2013/Sem1	LSM4245	Epigenetics and Chromatin Biology
	MDG5218	Biochemical and Genetic Approaches to Understanding Cell Biology
2012- 2013/Sem2	MDG5224	Animal Models of Human Diseases
	MDG5218	Biochemical and Genetic Approaches to Understanding Cell Biology
2013- 2014/Sem1	LSM4245	Epigenetics and Chromatin Biology
	MDG5218	Biochemical and Genetic Approaches to Understanding Cell Biology
2013- 2014/Sem2	MDG5224	Animal Models of Human Diseases
	LSM1101	Biochemistry of Biomolecules
2014- 2015/Sem1	CDM5101	Fundamentals of Cancer Biology
	LSM2103	Cell Biology
2014- 2015/Sem2	LSM4245	Epigenetics and Chromatin Biology
	MDG5215	Research skills
2014- 2015/Sem2	MDG5224	Animal Models of Human Diseases
	LSM1101	Biochemistry of Biomolecules
2015- 2016/Sem1	CDM5101	Fundamentals of Cancer Biology
	LSM2103	Cell Biology
2015- 2016/Sem2	LSM4245	Epigenetics and Chromatin Biology
	MDG5215	Research skills
2015- 2016/Sem2	MDG5224	Animal Models of Human Diseases
	LSM1101	Biochemistry of Biomolecules
2016- 2017/Sem1	CDM5101	Fundamentals of Cancer Biology
	LSM2103	Cell Biology
2016- 2017/Sem1	LSM4245	Epigenetics and Chromatin Biology
	MDG5215	Research skills

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Lab Members (past and present)

- Research Fellow:
 - Dr. Pasumarthi NBS Srinivas (Jan 2012 - Dec 2012)
 - Dr. Vanitha Krishna Subbaiah (Feb 2013 – Feb 2015)
 - Dr. Amit Kumar Pandey (Mar 2013 - Present)
 - Dr. Shewta Pradip Jadhav (June 2015 – Present)
- Research Assistant:
 - Jean Leong Kim Bee (July 2013 – June 2014)
- Laboratory Executive:
 - Guo Liang Low (Jan 2012 – Mar 2016)
 - Yee Liu Chua (Jan 2015 – June 2016)
 - Yong Zher Koh (July 2016 – Present)
- PhD students:
 - Main supervisor
 - Yanzhou Zhang (Nov 2012 – Aug 2016, NUS CSI post-graduate student)
 - Deepa Rajagopalan (Oct 2013- present, NUS SOM post-graduate student)
 - Jean Leong Kim Bee (Nov 2014- July 2016, NUS CSI post-graduate student)
 - Shianan Hora (Oct 2015 – present, NUS SOM post-graduate student)
 - Chia Su Shin (Grace) (May 2016 – present, NUS CSI post-graduate student)
 - Xiaoxuan Lin (Quy) (June 2016 – present, NUS CSI post-graduate student)
 - Co-supervisor
 - Siting Zhang (Aug 2012 – Aug 2016, NUS FoS post-graduate student)
 - Nicole Shu Ling Yeo-Teh (Oct 2014- present, NUS NGS post-graduate student)
 - Kwok Kin Lee (James) (Jan 2015- present, NUS CSI post-graduate student)
 - Michelle Fong (Jan 2015 – present, NUS SOM post-graduate student)