

CURRICULUM VITAE



Name: Dr. Suman S. Thakur

Affiliation: Centre for Cellular and Molecular Biology, Hyderabad, India

Designation: Senior Scientist

Started own Lab: Proteomics and Cell Signaling

Education:

University of Delhi, Ph.D. (2002)

Professional Appointments:

1. Walter Reed Army Institute of Research, Washington D.C., USA (Postdoc, 2002-2004)
2. Indian Institute of Science, Bangalore, India (Postdoc, 2005-2009)
3. Max Planck Institute of Biochemistry, Munich, Germany (Postdoc, 2009- 2011)
4. Centre for Cellular & Molecular Biology, Hyderabad, India, (Senior Scientist, from 2011)

Editorial Board Members:

- **Journal of Procedural Dermatology**

Academic Honors & Awards:

Resident Research Associateship, 2002 -2004, at Walter Reed Army Institute of Research (WRAIR), MD, USA, by National Research Council, USA of **National Academies**, USA.

Convenor of International Symposium:

1. **International Brainstorming Meeting: "Proteomics: Present and Future"** (22nd - 24th Nov. 2014), Centre for Cellular and Molecular Biology, Hyderabad, INDIA.
2. **International Workshop on "Advanced Proteomics"**(25th Nov. 2014 to 1st Dec. 2014), Centre for Cellular and Molecular Biology, Hyderabad, INDIA.

Research Interests:

Cancer Biology, Drug development, Mass Spectrometry based Quantitative Proteomics, Diabetic, Stem Cell and Clinical proteomics.

Selected Publication Summary:

Selected Articles in **International Scientific Journals: 15,**

USA Patents:1

1. Babli Halder, Shruti Singh, **Suman S. Thakur**
Withania somnifera Root Extract Has Potent Cytotoxic Effect against Human Malignant Melanoma Cells
PLoS ONE 10(9): e0137498. September 3, 2015[[Full Text](#)]
2. Srikanth Rapole, Mahesh J. Kulkarni, **Suman S. Thakur** & Shantanu Sengupta
Next generation proteomics tools
Nature India special issue, proteomics research in India special issue, 18-20 27
August 2015[[Full Text](#)]

3. Chatterjee B, **Thakur SS**.
Tribute: India's inspiring former president.
Nature 2015 Aug 20;524(7565):291. [[Full Text](#)]
4. Ravindranath V, Gupta A, Sehgal N, Jain SC, **Thakur SS**, Khanna P
Withania Somnifera plant extract and method of preparation thereof,
United states patent, Patent No: US, 8,481,087 B2 9th July 2013
5. Pathak KV, Keharia H, Gupta K, **Thakur SS**, Balaram P.
Lipopeptides from the Banyan Endophyte, Bacillus subtilis K1: Mass Spectrometric
Characterization of a Library of Fengycins.
J Am Soc Mass Spectrom. 2012 Jul 31. [Epub ahead of print] [[PubMed](#)] [[Full Text](#)]
6. Chatterjee B, **Thakur SS**.
Microbial profiling: extend ethnicity of human microbiome.
Nature 2012, Jul 4;487(7405):39.[[PubMed](#)] [[Full Text](#)]
7. Sehgal N, Gupta A, Valli RK, Joshi SD, Mills JT, Hamel E, Khanna P, Jain SC,
Thakur SS, Ravindranath V.
Withania somnifera reverses Alzheimer's disease pathology by enhancing low-density
lipoprotein receptor-related protein in liver.
Proc Natl Acad Sci U S A. 2012 Jan 30. [Epub ahead of print][[PubMed](#)] [[Full Text](#)]
8. **Thakur SS**, Geiger T, Chatterjee B, Bandilla P, Froehlich F, Cox J, Mann M.
Deep and highly sensitive proteome coverage by LC-MS/MS without pre-
fractionation.
Mol Cell Proteomics. 2011 Aug; 10 (8): M110.003699.[[PubMed](#)] [[FREE Full Text](#)]
Mol Cell Proteomics (MCP) Most-Read Articles during August 2011
9. Bulusu V, **Thakur SS**, Venkatachala R, Balaram H.
Mechanism of growth inhibition of intraerythrocytic stages of Plasmodium falciparum
by 5-aminoimidazole-4-carboxamide ribonucleoside (AICAR).
Mol Biochem Parasitol 2011 May;177(1):1-11. [[PubMed](#)] [[Full Text](#)]
10. **Thakur SS**, Ranganayaki RS, Gupta K, Balaram P.
Identification of alpha- and beta-hydroxy acid containing cyclodepsipeptides in
natural peptide mixtures using negative ion mass spectrometry.
J Am Soc Mass Spectrom. 2009, Dec 20(12);2221-2228 [[PubMed](#)] [[Full Text](#)]
11. **Thakur SS**, Balaram P.
Characterization of Alkali Induced Formation of Lanthionine, Trisulfides and
Tetasulfides from Peptide Disulfides using Positive and Negative Ion Mass
Spectrometry.
J Am Soc Mass Spectrom. 2009, 20: 783 -791. [[PubMed](#)] [[Full Text](#)]
12. **Thakur SS**, Deepalakshmi PD, Gayathri P, Banerjee M, Murthy MR, Balaram P.
Detection of the protein dimers, multiple monomeric states and hydrated forms of
Plasmodium falciparum triosephosphate isomerase in the gas phase.
Protein Eng Des Sel. 2009 May 22(5) 289-304. [[PubMed](#)] [[FREE Full Text](#)]
13. **Thakur SS**, Balaram P.
Fragmentation of peptide disulfides under conditions of negative ion mass
spectrometry: studies of oxidized glutathione and contryphan.
J Am Soc Mass Spectrom. 2008 Mar;19(3):358-66. [[PubMed](#)] [[Full Text](#)]
14. Das G, Thotala DK, Kapoor S, Karunanithi S, **Thakur SS**, Singh NS, Varshney U.
Role of 16S ribosomal RNA methylations in translation initiation in Escherichia coli.
EMBO J. 2008 Mar 19;27(6):840-51. [[PubMed](#)] [[FREE Full Text](#)]
15. **Thakur SS**, Balaram P.
Rapid mass spectral identification of contryphans. Detection of characteristic peptide

ions by fragmentation of intact disulfide-bonded peptides in crude venom.

Rapid Commun Mass Spectrom. 2007;21(21):3420-6. [\[PubMed \]](#) [\[Full Text\]](#)

16. Nair SS, Nilsson CL, Emmett MR, Schaub TM, Gowd KH, **Thakur SS**, Krishnan KS, Balaram P, Marshall AG.

De novo sequencing and disulfide mapping of a bromotryptophan-containing conotoxin by Fourier transform ion cyclotron resonance mass spectrometry.

Anal Chem. 2006 Dec 1;78(23):8082-8. [\[PubMed \]](#) [\[FREE Full Text\]](#)

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