

## Curriculum Vitae



Dr Shafat Ahmad Latoo  
(MSc, PhD)

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### PROFESSIONAL EXPERIENCE

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Junior Research Fellow (Pre-doctoral work) under Wellcome Trust Grant Cambridge, UK  
From November 2001 to December 2004

Under the supervision of **Prof. Satyajit Mayor**  
Director, NCBS, Tata Institute of Fundamental Research Bangalore, 560065

Visiting Scientist under Max Planck Grant, Germany  
From March 2005 to May 2005

Under the supervision of **Prof. Anne Spang**  
Max Planck Tübingen Germany (Friedrich-Miescher-Laboratorium), Tübingen 72076

**Lecturer in the Department of Biochemistry**  
(Women's College MA, Road & Islamia College Hawal, Srinagar)  
From June 2005 to October 2009

Junior Research Fellow (Pre-doctoral work) under DBT Grant India from Oct 2009 to April 2011  
PhD (Potential of S6K1 in regulating dynamics of actin cytoskeleton)  
From April 2011 to March 2014 under DBT Grant India  
Under the supervision of **Prof. Khurshid Iqbal Andrabi**  
Ex-Vice-Chancellor University of Kashmir Srinagar, 190006

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**Lecturer in Department of Biochemistry**  
(S.P College MA Road & Islamia College Hawal Srinagar)  
(June 2015 to December 2021)

**Assistant Professor in Department of Biochemistry**  
(Cluster University, S.P College Srinagar, 190001)  
(March 2022 to December 2022)

## CONFERENCES AND WORKSHOPS

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- PC familiarization and applications from September 5, 2000 to September 7, 2000 at KU, Srinagar.
- NCBS Symposium on Cancer and Cell Death from 9<sup>th</sup> – 13<sup>th</sup> January, 2002 in Bangalore India.
- NCBS Neurobiology Symposium held from 3<sup>rd</sup> – 6<sup>th</sup> January, 2003 in Bangalore India.
- NCBS International Symposium on Molecules, Machines and Networks from 5<sup>th</sup> – 9<sup>th</sup> January, 2004 India.
- 8<sup>th</sup> JK Science Congress held from 17<sup>th</sup> to 19<sup>th</sup> September, 2012 at University of Kashmir India.
- American Virtual Workshop on Scientific Writing and Publishing 23<sup>rd</sup> July, 2012 at KU, Srinagar.
- International Conference on Cellular and Molecular Mechanisms of Disease Processes held from 13<sup>th</sup> – 16<sup>th</sup> April 2014 at Department of Biotechnology, University of Kashmir India.
- National Conference on Environment And Water Resources Management– Challenges & Solutions, 27<sup>th</sup> July 2022 at Cluster University, S.P College M.A Road Srinagar, Jammu and Kashmir 190001.

- Two Day National Workshop on 'Entrepreneurship, Innovations and Startups' from 15<sup>th</sup> – 16<sup>th</sup> November 2022 at Cluster University, S.P College M.A Road Srinagar, Jammu and Kashmir 190001.

## PUBLICATIONS

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- Nanoscale organization of multiple GPI-Anchored proteins in living cell membranes. Acknowledged in the paper. Cell 2004; 116: 577-589
- Rapamycin inhibition of baculovirus recombinant (BVR) ribosomal protein S6 kinase (S6K1) is mediated by an event other than phosphorylation. Mushtaq A Beigh, Mehvish Showkat, Mahboob ul Hussain, Shafat A Latoo, Sheikh T Majeed and Khurshid I Andrabi Cell Communication and Signaling 2012; 10:4
- Laboratory Guide: Concepts and Protocols for Practical Courses in Biochemistry and Molecular Biology. Shafat A Latoo, Nova Science Publishers New York, 2022.
- Phosphorylation state of S6K1 is redundant for its interaction with F actin. Manuscript submitted.

## **PROFESSIONAL EXPERIENCE AND TRAINING RELEVANT TO THE RESEARCH**

### EXPRESSION BIOLOGY

**Protein expression in Bacteria:** Extensive experience in the use of glutathione expression system with a more emphasis on different versions of green fluorescent proteins.

**Protein expression in Mammalian cells:** Extensive experience in growth and maintenance of a variety of cell lines Cos, 293, NIH 3T3, CHO, and others. Massive experience in transient protein expression using DEAE, Calcium phosphate, Lipofectin etc. in a variety of cell lines.

**Protein expression in insect cells:** Extensive experience using baculoviral expression system in SF9cell lines. Successfully expressed and played with a minimum of half a dozen of proteins.

### CHROMATOGRAPHY

Experience in affinity, gel permeation and ion exchange chromatography.

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## **MOLECULAR BIOLOGY**

Experience in construction, modification, and tagging of several classes of vectors.

Cloning and sub cloning for library as well as PCR products.

cDNA and Genomic library screening and analysis.

Polymerase chain reaction, probe labeling.

Working knowledge for handling yeast two hybrid interaction cloning system.

## **CELL BIOLOGY**

Extensive experience in studying protein interaction by immunoprecipitation, and cross linking.

Immune complex kinase assays for kinases and a variety of Ser-Thr kinases.

Metabolic labeling of protein with p32, during transient and stable expression.

SDS PAGE regular and Tris Tricine buffer system, Western blotting.

## **GENETICS**

Extensive experience in handling Drosophila (have done P element insertional mutagenesis screening & gene interaction screening to look for different putatives of drosophila eye color gene i.e., carnation gene) and experience in handling Yeast system too.

## **MICROSCOPY**

Do have a hand on fluorescent and electron microscopy (SEM).