

# Prof. M. Hussain Munavar

Professor and Head, Department of Molecular Biology

Department of Molecular Biology

School of Biological Sciences



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**Educational Qualifications**

**:M.Sc. Ph.D**

**Professional Experience**

**: 27 years**

## FIELD OF SPECIALIZATION

- Molecular Biology
- Molecular Genetics

## RESEARCH SPECIALIZATION

- Genetics/Molecular Biology of Transcription control and DNA Repair in *Escherichia coli*
- Genetic Regulation by and of Proteases in *Escherichia coli*
- Genetic regulation of Mutagenesis in *Escherichia coli*
- Anti-Cancer Therapeutics and Drug delivery using Nano-Technology approach
- Molecular Mechanism of Resistance to very important Antibiotics and MDR

## Research Supervision:

Program	Completed	Ongoing
Ph.D	6 Under direct Guidance 2 Under co- Guidance	5
M.Phil	4	-

## PROFESSIONAL EXPERIENCE

No	Institution	Position	From (date)	To (date)	Duration
1	Madurai Kamaraj University	Lecturer	1990	1995	5yrs
2	Madurai Kamaraj University	Sr. Lecturer	1995	1999	4yrs
3	Madurai Kamaraj University	Head, Dept. of Molecular Biology	1998	Till date	20yrs
4	Madurai Kamaraj University	Reader	1999	2007	8 yrs
5	Madurai Kamaraj University	Professor	2007	Till date	11

## RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output ( Papers/Patents/Research/Online)
Dr.Susan Gottesman	NIH	Special Volunteer 1993-94	<p>1. Identified a novel mutation in <i>dnaJ (faa)</i> and shown that it can suppress hallmark phenotypes of <i>lon</i> mutant namely capsule over-production and sensitivity to DNA damaging agents in <i>E.coli</i> and characterized the mutation in depth.</p> <p>2. Sankaran, S., <b>Munavar, M.H.</b> and Jayaraman, R. "Phenylalanyl tRNA synthetase of <i>Escherichia coli</i> as an accessory transcription factor: Analysis of <i>fitA76</i> and <i>pheS5</i> mutations". Presented at the meeting on "Molecular Genetics of bacteria and Phages" held at Cold Spring Harbour Laboratory, CSH, NY, USA (August 24-29, 1993)</p>

Dr.Susan Gottesman	NIH	Visiting Fellow 1994-95	<p><b>Munavar, M.H.</b> and Gottesman, S. “Isolation and characterization of mutations affecting ALP (Alternate Lon Protease) activity in <i>Escherichia coli</i>”. Presented at the meeting on “Molecular Genetics of Bacteria and phages” held at the University of Wisconsin, Madison, WI, USA ( August 2-7, 1994).</p> <p><b>Munavar, M.H.</b> and Gottesman, S. “A chromosomal locus affecting Alternate lon-like protease (Alp) activity in <i>Escherichia coli</i>”. Presented at the 95<sup>th</sup> General Meeting of the American Society for Microbiology held at Washington DC. (May 21-25, 1995).</p>
Dr.Susan Gottesman	NIH	Visiting Scientist (Courtesy Associate) June - Aug 2000	Futher characterized the <i>faa</i> mutation and shown that ClpYQ protease degrades SulA in phenotypically Alp strains of <i>E.coli</i>
Dr.Susan Gottesman	NIH	Visiting Scientist (Courtesy Associate) May – Aug 2004	<b>Munavar, M.H.</b> , Zhou, Y.N. and Gottesman, S., Analysis of <i>Escherichia coli</i> Alp phenotype: Heat shock induction in <i>ssrA</i> mutants (2005) <i>J.Bacteriol.</i> <b>187</b> : 4739-4751

## COMPLETED RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1.	Transcription control in <i>Escherichia coli</i>	Department of Science and Technology, Govt. of India	Four years Rs.14,00,000/-	(1998–2002)
2.	Effect of anti cancer compounds cleistanthin A and B on Bacteria	Madurai Kamaraj University (UGC unassigned grant)	One year Rs.14,000/-	(1997-98)
3.	<i>E.coli</i> strain construction for Industrial Application	Medgene Pharmaceuticals Ltd., Bangalore	Two years Rs.8 Lakhs	(2006-08)

## ON-GOING RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
-				

## HONORS/AWARDS/RECOGNITIONS

### 1982 – 84

The following Gold Medals were awarded for obtaining I Rank in the University in M.Sc., course  
Dr. T.P. Meenakshi Sundaram Endowment Medal  
45<sup>th</sup> Annual Meeting of the Inter University Board of India and Ceylon Medal  
Dr.M.Varadarajan Memorial Endowment Medal

### 1993 – 94

Recipient of S.N. and S. Pradhan Biomedical Postdoctoral Research Fellowship funded by the Pradhan Foundation Inc., Foundation for Advanced Education in the Sciences, [FAES] NIH, USA

Selected to receive the Biotechnology Overseas Associateship (1992) funded by the Department of Biotechnology, Government of India (Declined, since accepted the above)

### 1994 – 95

Visiting Fellow, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA.

### June - Aug 2000

Courtesy Associate, National Cancer Institute, National Institute of Health, Bethesda, MD, USA.

### Dec -2000

Nominated as a member of Senate of Madurai Kamaraj University for a period three years from December 19, 2000 by The Excellency the Governor of Tamilnadu, India.

### May – Aug 2004

Courtesy Associate, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA.

### Aug 2014

Received “Distinguished Alumnus Award” for significant contribution to higher education by Jamal Mohamed College, Trichy.

### September - 2017

Received the award in the Honor of 25 years of service at MKU from the Honorable Vice-Chancellor, Madurai Kamaraj University.

## PUBLICATIONS

1. **Munavar, M.H.** and Jayaraman, R. Extragenic suppression of the temperature sensitivity of a *fitA* mutation by a *fitB* mutation in *Escherichia coli*: Possible interaction between *fitA* and *fitB* gene products in transcription control. *J.Genet.* **66**:123-132, 1987
2. **Munavar, M.H.**, Madhavi, K. and Jayaraman, R. Aberrant transcription in *fit* mutants of *Escherichia coli* and its alleviation by suppressor mutations. *J. Biosci.* **18**:37-45, 1993
3. **Munavar, M.H.** and Jayaraman, R. Genetic evidence for the interaction between *fitA*, *fitB* and *rpoB* gene products and its implication in transcription control in *Escherichia coli*. *Genet.***72**:21-33, 1993.
4. Ramalingam, S., **Munavar, M.H.**, Sankaran, S. Rukmani, A. and Jayaraman, R. Elucidation of lesions present in the transcription defective *fitA76* mutant of *Escherichia coli*: Implication of phenylalanyl tRNA synthetase subunits as transcription factors *J.Biosci.* 1999, **24**:153-162
5. Sudha, S. **Munavar, M.H.** and Jayaraman, R. Synthesis versus stability of RNA in *fitA76* and *pheS* mutants of *Escherichia coli* and its implications. *Indian J.Microbiol.* 2001, **41**:123-127.
6. **Munavar, M.H.**, Zhou, Y.N. and Gottesman, S., Analysis of *Escherichia coli* Alp phenotype: Heat shock induction in *ssrA* mutants (2005) *J.Bacteriol.* **187**: 4739-4751
7. Vidya.S., Kamalakar, P.B., **Munavar M.H.**, Kumar, S.L. and Jayaraman, R., Allele-specific suppression of temperature sensitivity of *fitA/fitB* mutants of *Escherichia coli* by a new mutation (*fitC4*); isolation, characterization its implications in transcription control. (2006) *J.Biosci.* **31**: 31-45
8. Singaravelan, B., Roshini, B.R. and **Munavar, M.H.**, Evidence that *supE44* mutation of *Escherichia coli* is an amber suppressor allele of *glnX* and that it also suppresses Ochre and Opal nonsense mutations. *J. Bacteriol.* 2010, **192**, 6039-6044
9. Ponmani, T. and **Munavar, M.H.**, Asserting the role of Cra in regulation of *prpB* and *yahA* genes of *Escherichia coli* in vivo using *lacZ* transcriptional fusions. *Journal of Scientific and Industrial Research*, 2011, **70**, 938-944

10. Shanmughapriya, V. and **Munavar, M. H.**, Evidence for involvement of UvrB in elicitation of 'SIR' phenotype by *rpoB87-gyrA87* mutations in *lexA3* mutant of *Escherichia coli*, *DNARepair*, 2012, **11**, 915-925
11. Subha K R, Esther M R, Gunaseeli R and **Munavar M H.**, Characterization of Silver Nano-particles synthesized by *Aspergillus* species. *International Journal of Pharma and Bio Sciences*, 2013, **4**:748 – 757.
12. Shanmughapriya, V. Meenakshi S and **Munavar, M. H.** (2014) Selective alleviation of Mitomycin C sensitivity in *lexA3* strains of *Escherichia coli* demands allele specificity of *rif-nal* mutations: A Pivotal Role for *rpoB87-gyrA87* mutations. *PLOS ONE* **9(2)**: e87702.
13. Ponmani T and **Munavar M.H** (2014) G<sub>673</sub> could be a novel mutational hot spot for intragenic suppressors of *pheS5* lesion in *Escherichia coli*. *Microbiology Open***3(3)**: 369–382.
14. Meenakshi S and **Munavar M. H.**, (2015) Suppression of Capsule Expression in  $\Delta lon$  Strains of *Escherichia coli* by Two Novel *rpoB* Mutations in concert with HNS: Possible role for DNA Bending at *rcaA* Promoter. *Microbiology Open***4 (5)**:712-729.
15. Subha K R, Esther M R, Gunaseeli R and **Munavar M. H.**, (2016), Extracellular synthesis of silver nanoparticles by the fungus *Emericella nidulans* EV4 and its application, *Indian Journal of Experimental Biology*, Vol. 55, April 2017, pp. 262-265.
16. Shanmugapriya V, Richard S, Nagarajan T and **Munavar MH.** Ascribing a novel role for tmRNA of *Escherichia coli* in resistance to Mitomycin C, *Future Microbiol.* 2017 Nov; 12:1381-1395.
17. Meenakshi S and **Munavar MH.** Genome-wide Expression (Transcriptome) profile of  $\Delta lon$  and  $\Delta lonrpoB12$  strains of *Escherichia coli* reveal complexity in modulation of gene expression by the fast moving RNA polymerase.(Under revision, *Microbiology Research*)
18. Meenakshi S , M. Karthik and **Munavar MH** A putative curved DNA region upstream of *rcaA* in *Escherichia coli* plays a key role in transcriptional regulation by H-NS (In press, FEBS Openbio)
19. S. Ashwin Sri Bala, I. Madhumathi , S Vinodha, **Munavar MH.** Glu<sub>571</sub> of PheT plays a pivotal role in the thermal stability of *Escherichia coli* PheRS enzyme(In Press, Journal of Basic Microbiology)

#### PAPER PRESENTED IN CONFERENCE/SEMINAR/WORKSHOP

Name of the Conference	Date	Place	Title	Author(s)
55 <sup>th</sup> Annual meeting of the Society of Biological Chemists	December 15-17, 1986	Trivandrum, India	"Extragenic suppression of the temperature sensitivity of a temperature sensitive transcription mutant of <i>Escherichia coli</i> ".	<b>Munavar, M.H.</b> and Jayaraman, R.

Molecular Genetics of bacteria and Phages	August 24-29, 1993	Cold Spring Harbour Laboratory, CSH, NY, USA	Phenylalanyl tRNA synthetase of <i>Escherichia coli</i> as an accessory transcription factor: Analysis of <i>fitA76</i> and <i>pheS5</i> mutations.	Sankaran, S., <b>Munavar, M.H.</b> and Jayaraman, R.
Molecular Genetics of Bacteria and phages	August 2-7, 1994	University of Wisconsin, Madison, WI, USA	Isolation and characterization of mutations affecting ALP (Alternate Lon Protease) activity in <i>Escherichia coli</i> .	<b>Munavar, M.H.</b> and Gottesman, S.
95 <sup>th</sup> General Meeting of the American Society for Microbiology	May 21-25, 1995	Washington DC.	A chromosomal locus affecting Alternate <i>lon</i> -like protease (Alp) activity in <i>Escherichia coli</i> .	<b>Munavar, M.H.</b> and Gottesman.S
“Life Science Research in Post Independent India”,	August 26, 1997	School of Biological Sciences, Madurai Kamaraj University, Madurai, India	Growth phase dependent regulation of Alp protease expression/function in <i>Escherichia coli</i>	Jaganathan V. and <b>Munavar, M.H.</b>
Aqua-Terr Annual symposium	Feb 27-28, 1998	School of Biological Sciences, Madurai Kamaraj University, Madurai, India	Extent of suppression of <i>Escherichia coli lon</i> mutant phenotypes in strains carrying Alp protease activity.	Jaganathan V. and <b>Munavar, M.H.</b>
Aqua-Terr annual symposium	March 19, 1999	School of Biological Sciences, Madurai Kamaraj University, Madurai, India	An attempt to map and characterize a new mutation ( <i>fsp</i> ) affecting Alp protease in <i>Escherichia coli</i> .	Gosar D and <b>Munavar, M.H.</b>
Bioremediation of Polluted Habitats	March 22-23, 1999	TNAU, Coimbatore, India	Molecular biology and Biotechnology aspects- Proteases and Proteolysis	<b>Munavar .M.H.</b>
Transcription Assembly and Nucleic acid – Protein interactions”	June 7-9, 1999	at IISc., Bangalore, India	Identification and characterization of lesions present in a temperature insensitive derivative (JV4) obtained from a temperature sensitive transcription defective <i>fitA76</i> mutant of <i>E.coli</i> .	Vidya S. Saini D.K. <b>Munavar ,M.H.</b> and Jayaraman R.
National Symposium on	Feb 15-17, 2002	SBS, Madurai Kamaraj	Genetic characterization of the <i>ppm</i> mutation and	Madhusudan, S., Kalai Selvi, S. and

Functional Genomics		University, Madurai India	its implications in adaptive mutagenesis in <i>Escherichia coli</i>	<b>Munavar, M.H.</b>
National Symposium on Functional Genomics	Feb 15-17, 2002	SBS, Madurai Kamaraj University, Madurai India	Genetic characterization of the <i>fit95</i> mutant of <i>Escherichia coli</i> : evidence that <i>fit95</i> defines an allele of the <i>pheT</i> locus	Kamalakar, P.B. and <b>Munavar, M.H.</b> ,
7 <sup>th</sup> Transcription Assembly meeting	Dec 4-6, 2003	JNCASR, Bangalore	Search for the locus defined by the new <i>fit</i> mutation, namely, <i>fitC4</i> in <i>Escherichia coli</i> : Evidence that <i>fitC4</i> might be a duplicated copy of the <i>pheS4</i> allele.	Kamalakar, P.B., <b>Munavar, M.H.</b> Vidya, S. and Jayaraman, R.
8 <sup>th</sup> Transcription Assembly Meeting	October 28-30, 2004	NCCS, Pune	Genetic and molecular analysis of <i>fit95</i> mutation and its implication in Transcription control by Fit factors in <i>Escherichia coli</i> .	Kamalakar, P.B., Israel, G.A., <b>Munavar, M.H.</b> and Jayaraman, R.,
9 <sup>th</sup> Transcription assembly meeting	September 17-19, 2005	CCMB, Hyderabad during	"Alp" Genetics of <i>Escherichia coli</i> : Past, Present and Future	<b>Munavar, M.H.</b> ,
"Xth Asian Conference on Transcription and Transcription assembly	January 13-16, 2008	IISc, Bangalore during	Evidence for the presence of an Alternate promoter element in <i>Escherichia coli pheST</i> operon.	<b>Munavar, M.H.</b> and Kamalakar, B.P.
Science Day & Aqua-Terr Annual Conference"	March 29, 2008	School of Biological Sciences, MKU	<i>Escherichia coli</i> mini cells as Drug delivery vehicles for Cancer.	Ponmani, T., <b>M.H. Munavar</b> and S. Shanmugasundaram,
Science Day & Aqua-Terr Annual Conference"	March 29, 2008	School of Biological Sciences, MKU	Genetic characterization of <i>fit95</i> Ts mutation affecting transcription in <i>Escherichia coli</i> .	Uma, M. and <b>Munavar, M.H.</b> ,
Science Day & Aqua-Terr Annual Conference	March 29, 2008.	School of Biological Sciences, MKU	What is the strength/sigma dependency of the "Alternate Promoter" of <i>Escherichia coli pheST</i> operon?	Dhaarini, M., Kamalakar, B.P. and <b>Munavar, M.H.</b> ,
Science Day & Aqua-Terr Annual Conference	March 29, 2008.	School of Biological Sciences, MKU	Evaluating the extent of suppression of <i>lon-uvrD</i> in compatibility in	Meenakshi, M., Arul Muthukumaran,



			phenotypically Alp <sup>+</sup> strains of <i>Escherichia coli</i> .	N., Singaravelan, B. and <b>Munavar, M.H.</b>
Science Day & Aqua-Terr Annual Conference	March 29, 2008.	School of Biological Sciences, MKU	Identification and partial characterization of a new mutation ( <i>Isp</i> :Lon suppressor) in <i>Escherichia coli</i> .	Prakash, P., Ponmani, T., and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr Annual Conference	March 29, 2008.	School of Biological Sciences, MKU	Molecular genetic characterization of a Promoter- <i>lacZ</i> <sup>+</sup> fusion regulated by <i>Escherichia coli</i> Lon protease.	Shanmughapriya, R., Singaravelan, B. and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr Annual Conference	March 29, 2008	School of Biological Sciences, MKU	Evidence for the involvement of N-Terminal portion of DnaK in eliciting Alp <sup>+</sup> phenotype in <i>Escherichia coli</i>	Puri, N., Singaravelan, B. and <b>M.H. Munavar</b>
Science Day & Aqua-Terr Annual Conference	March, 2009.	School of Biological Sciences, MKU	Genetic evidence for UP-regulation of <i>prpB</i> and <i>yahA</i> genes of <i>Escherichia coli</i> by <i>cra</i>	Ponmani, T. and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr "Annual Conference"	March, 2009	School of Biological Sciences, MKU	Expression of truncated <i>fadL</i> cloned in pBAD HisA inhibits cell viability depending on arabinose concentration in <i>Escherichia coli</i> .	Bharti, A.K., Ponmani, T. and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr Annual Conference	March, 2009	School of Biological Sciences, MKU	Isolation and partial characterization of a spectrum <i>rif</i> <sup>r</sup> mutants of <i>Escherichia coli</i> conferring Rifampicin resistance in a temperature dependent manner	Agarwal, N and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr Annual Conference"	March, 2009.	School of Biological Sciences, MKU	Lon suppression in <i>Escherichia coli</i> : Elevated suppression by <i>Isp</i> in combination with <i>ssrA</i> :: <i>cat</i> allele.	Gomathi, A., Singaravelan, B. and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr "Annual Conference"	March, 2009	School of Biological Sciences, MKU	Nucleotide sequence of <i>glnVX</i> region of <i>Escherichia coli</i> CSH34. Evidence for presence of an amber suppressor in <i>glnX</i> and its ability to	Singaravelan, B. and <b>Munavar, M.H.,</b>

			suppress ochre also.	
National symposium on Recent advances in Biotechnology”	January 2010.	Department of Biotechnology, Anna University Tiruchirappalli	Isolation and partial characterization of a mutation ( <i>lus</i> ) capable of suppressing <i>lon-uvrD</i> incompatibility in <i>Escherichia coli</i> .	Sutharsan, G., Singaravelan, B. and <b>Munavar, M.H.</b> ,
National symposium on Recent advances in Biotechnology	January 2010.	Anna University, Tiruchirappalli during	Effect of over expression of truncated <i>fadL</i> in <i>Escherichia coli</i> .	Ponmani, T., Bharti, A.K. and <b>Munavar, M.H.</b>
9 <sup>th</sup> National Conference on plant and microbial metabolites,	11 <sup>th</sup> and 12 <sup>th</sup> February, 2010	Department of Microbiology, Karpagam University, Coimbatore 641021	SOS independent DNA repair in <i>Escherichia coli</i> and their implications	<b>Munavar, M.H.</b> ,
International Conference on “Computational Biotechnology Nanotechnology	Feb 24-26, 2010	Vivekananda College of Engineering for Women, Tamil Nadu	A Bird eye view on “ALP” genetics of <i>Escherichia coli</i> ”,	<b>Munavar, M.H.</b> ,
National level Seminar on recent trends in Genomics.	18 <sup>th</sup> , March 2010	Department of Microbiology, Bio-chemistry and Biotechnology held at NMSSVN College, Madurai-19	Transcriptomics: <i>fit</i> genetics of <i>Escherichia coli</i>	<b>Munavar, M.H.</b> ,
National Seminar cum Workshop on Nanomedicines	3 <sup>th</sup> & 4 <sup>th</sup> , March 2010	Research centre of Biotechnology and Microbiology of Lady Doak College, Madurai.	“ <i>Escherichia coli</i> Minicells as Nano Drug Carriers	<b>Munavar, M.H.</b> ,
Science Day & Aqua-Terr Annual Conference”	March 6 <sup>th</sup> , 2010	School of Biological Sciences, MKU	Does G-673 base define a hotspot of <i>pheS5</i> suppressor(s) of <i>Escherichia coli</i> ”	Ponmani, T. and <b>Munavar, M.H.</b> ,
Science Day & Aqua-Terr Annual Conference	March 6 <sup>th</sup> , 2010	School of Biological Sciences, MKU	Screening of Mutations Which Overcome Growth Defect Caused by Over	Ponmani, T. and <b>Munavar, M.H.</b> ,

			expression of Truncated <i>fadL</i> in <i>Escherichia coli</i>	
Science Day & Aqua-Terr Annual Conference	March 6 <sup>th</sup> , 2010	School of Biological Sciences, MKU	Possible role for Lon Protease in Modulating the SIR pathway of DNA repair in <i>Escherichia coli</i> .	Shanmughapriya, R. and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr Annual Conference"	March 6 <sup>th</sup> , 2010	School of Biological Sciences, MKU	Further Studies on <i>lon-uvrD</i> incompatibility in <i>Escherichia coli</i> and their implication	Sutharsan, G., Singaravelan, B. and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr Annual Conference	March 6 <sup>th</sup> , 2010	School of Biological Sciences, MKU	Molecular genetic analysis of <i>supE</i> effect modulators in <i>Escherichia coli</i> "	Roshini, B.R., Singaravelan, B. and <b>Munavar, M.H.,</b>
Science Day & Aqua-Terr Annual Conference	March 6 <sup>th</sup> , 2010	School of Biological Sciences, MKU	Effect of mutations in DnaK' region coded by pDM42 in elicitation of Alp <sup>+</sup> phenotype in <i>Escherichia coli</i>	Grover, S., Kumaran, N.A.M and <b>Munavar, M.H.,</b>
International Conference on Genomic Sciences –Recent Trends (ICGS), VII Convention of The Biotech Research Society, India (BRSI) and Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology (IIWIPB)	November 2010	School of Biological Sciences, MKU	Wee bit unorthodox: <i>Escherichia coli</i> Amber suppressor could suppress even Ochre and Opal mutations	<b>Munavar, M.H.,</b>
International Conference on Genomic Sciences –Recent Trends (ICGS), VII Convention of The Biotech Research Society, India (BRSI) and	November 2010	School of Biological Sciences, MKU	Level of loss of <i>lon-uvrD</i> incompatibility in phenotypically Alp <sup>+/-</sup> strains of <i>Escherichia coli</i> and its implication <i>in vivo</i> turnover of Sula	Kumaran, N.A.M., Janakiram, R., Singaravelan, B. and <b>Munavar, M.H.,</b>

Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology (IIWIPB)				
International Conference on Genomic Sciences –Recent Trends (ICGS), VII Convention of The Biotech Research Society, India (BRSI) and Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology (IIWIPB)	November 2010	School of Biological Sciences, MKU	Accessing the role of Cra in regulation of <i>prpB</i> and <i>yahA</i> genes of <i>Escherichia coli</i> <i>in vivo</i> using <i>lacZ</i> transcriptional fusions” <b>(Won the best Poster Award)</b>	Ponmani, T. and <b>Munavar, M.H.,</b>
International Conference on Genomic Sciences –Recent Trends (ICGS), VII Convention of The Biotech Research Society, India (BRSI) and Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology (IIWIPB)	November 2010	School of Biological Sciences, MKU	Analysis of sequence change due to <i>thr1</i> lesion of <i>Escherichia coli</i> strain AB1157: Evidence that <i>thr1</i> defines and amber allele of <i>thrB</i> and <i>rpsL31</i> anti-suppresses the <i>supE44</i> effect	Singaravelan, B. and <b>Munavar, M.H.,</b>
International Conference on Genomic Sciences –Recent Trends (ICGS), VII Convention of The Biotech Research Society, India (BRSI) and Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology (IIWIPB)	November 2010	School of Biological Sciences, MKU	“Genetic Analysis of spontaneous tobramycin resistant mutants of <i>Escherichia coli</i>	Vinodha, S., Shanmughapriya, R., Singaravelan, B. and <b>Munavar, M.H.,</b>

Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology (IIWIPB)				
National Conference on Recent Trends in Bio Products	25-26 <sup>th</sup> February 2011	Kamaraj College of Engineering & Technology, Virudhunagar, Tamil Nadu	Isolation and Characterization of Antimicrobial Activity in Actinomycetes Isolated from Western Ghats Soil Sample. <b>(Won the best Poster Award).</b>	Thangapandian V., <b>Munavar M.H</b> and Lingakumar, K.,
National Science Day and 42 <sup>nd</sup> Aqua-terr Annual Conference on Genomic Sciences	28 <sup>th</sup> February 2011	School of Biological Sciences, MKU	Molecular and Genetic Characterisation of a Novel <i>rpsD</i> Allele in <i>Escherichia coli</i>	Natarajan, A., Singaravelan, B. and <b>Munavar, M.H.,</b>
National Science Day and 42 <sup>nd</sup> Aqua-terr Annual Conference on Genomic Sciences	28 <sup>th</sup> February 2011	School of Biological Sciences, MKU	Isolation and Partial Characterisation of <i>sir</i> -like mutants of <i>Escherichia coli</i> ."	Pinto, S.K., Shanmughapriya, R. and <b>Munavar, M.H.</b>
National Science Day and 42 <sup>nd</sup> Aqua-terr Annual Conference on Genomic Sciences	28 <sup>th</sup> February 2011	School of Biological Sciences, MKU	Isolation and Partial Characterisation of Spontaneous Aminoglycoside Antibiotic resistant mutants of <i>Escherichia coli</i> .	Vinodha, S., Singaravelan, B. and <b>Munavar, M.H.,</b>
National Science Day and 42 <sup>nd</sup> Aqua-terr Annual Conference on Genomic Sciences	28 <sup>th</sup> February 2011	School of Biological Sciences, MKU	Misreading of Opal Stop codon by Selenocysteine tRNA in <i>Escherichia coli</i> .	Pradhan, A., Singaravelan, B. and <b>Munavar, M.H.,</b>
National Science Day and 42 <sup>nd</sup> Aqua-terr Annual Conference on Genomic Sciences	28 <sup>th</sup> February 2011	School of Biological Sciences, MKU	Cloning of <i>supE44</i> an Amber suppressor and its Multi-copy Effect in <i>Escherichia coli</i> ."	Prakash, A., Singaravelan, B. and <b>Munavar, M.H.,</b>
National Science Day and 42 <sup>nd</sup> Aqua-terr Annual Conference on Genomic Sciences	28 <sup>th</sup> February 2011	School of Biological Sciences, MKU	<i>In vivo</i> suppression of Opal Nonsense Codon by Ochre Suppressor."	Shanmugapriya, K., Singaravelan, B. and <b>Munavar, M.H</b>

National Science day and 43 <sup>rd</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2012	School of Biological Sciences, MKU	Elicitation of Lon like Protease Activity in <i>lon</i> mutant of <i>Escherichia coli</i> : the possible Involvement of Multi-copy N-Terminal Truncated <i>dnaK</i> ( <i>dnaK'</i> )	Kumaran, N.A.M. and <b>Munavar, M.H.</b> ,
National Science day and 43 <sup>rd</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2012	School of Biological Sciences, MKU	Sequence Analysis and Level of Suppression of <i>argE3</i> and <i>hisG4</i> Ochre Mutations in AB1157 strains of <i>Escherichia coli</i> : Multi-copy effects of tRNA <sup>Gln</sup> and <i>supE44</i>	Aatmaja, A.R., Singaravelan, B. and <b>Munavar, M.H.</b> ,
National Science day and 43 <sup>rd</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2012	School of Biological Sciences, MKU	Level of Suppression of <i>lacZU118</i> Ochre Mutation by Different Amber Suppressors in <i>Escherichia coli</i> : Construction of a Library of Nonsense Mutation in <i>lacZ</i> by Site Directed Mutagenesis.	Karippure, S., Singaravelan, B. and <b>Munavar, M.H.</b> ,
National Science day and 43 <sup>rd</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2012	School of Biological Sciences, MKU	Analysis of Pseudo-Revertants of <i>pheS5</i> mutant of <i>Escherichia coli</i> : Implication in PheS Function	Ponmani, T. and <b>Munavar, M.H.</b> ,
National Science day and 43 <sup>rd</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2012	School of Biological Sciences, MKU	<i>uvrB</i> expression is mandatory to elicit 'SIR <sup>+</sup> ' phenotype in <i>rpoB87-gyrA87-lexA3</i> mutant of <i>Escherichia coli</i>	Shanmughapriya, R. and <b>Munavar, M.H.</b>
National Science day and 43 <sup>rd</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2012	School of Biological Sciences, MKU	Genetic Evidence that <i>slm</i> mutations of <i>Escherichia coli</i> that suppress "SIR" phenotype define dominant allele	Arora, H., Shanmughapriya, R. and <b>Munavar, M.H.</b> ,
Seminar workshop on Microbial Biology held at Centre for DNA Fingerprinting and Diagnostics,	11-14 December 2012.	Hyderabad,	Truncated DnaK elicited Alp like phenotype in <i>lon</i> mutants of <i>Escherichia coli</i> and its implications	Kumaran N.A.M and <b>Munavar M.H.</b>

Seminar workshop on Microbial Biology held at Centre for DNA Fingerprinting and Diagnostics,	11-14 December 2012.	Hyderabad,	Allele specificity of <i>rpoB</i> and <i>gyrA</i> mutations in elicitation of the wee bit unorthodox 'SIR' phenotype in <i>Escherichia coli</i> and its implications in DNA repair	Shanmugapriya V and <b>Munavar, M.H.</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Genetic and Molecular Analyses of Two Novel Mutations of <i>rpoB</i> gene of <i>Escherichia coli</i> that Selectively Modulate Capsule Expression.	Meenakshi S and <b>Munavar, M.H.</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Genetic Analyses of Temperature Sensitive Rif <sup>R</sup> derivatives of <i>Escherichia coli</i> strain TPM528 ( <i>pheS5-pheS28</i> ) and their Implications	Anay K, Pomani T, Meenakshi S and <b>Munavar M.H.</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Effect of various DNA Damaging agents on <i>ssrA</i> mutants of <i>Escherichia coli</i> .	Stephen R.H, Shanmugapriya V and <b>Munavar M.H.</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Study of Lethality Proteome Profile of <i>Escherichia coli</i> strain bearing Multi-copy Plasmid Harboring <i>lexA</i> <sup>+</sup> Allele	Bala S.A.S, Shanmugapriya V and <b>Munavar M.H.</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Analyses of Strength and Sigma Dependency of the Alternate Promoter of <i>pheST</i> Operon of <i>Escherichia coli</i> and its Implications in Transcription Control by Fit Factor	Kumaran N.A.M, Vinodha S and <b>M.H. Munavar</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Systematic Genetic Analyses of Temperature Insensitive Derivatives of $\Delta lon$ <i>faa</i> Mutant of <i>Escherichia coli</i> and their	Karthik M and <b>Munavar M.H.</b>

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National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Isolation and Partial Characterization of null <i>dnaQ-Δlon</i> Incompatibility Suppressors ( <i>dls</i> ) in <i>Escherichia coli</i>	Kathirvel R, Singaravelan B and <b>Munavar M.H.</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	A Genetic Approach to see the effect of <i>lon</i> mutation in <i>dksA</i> strains of <i>Escherichia coli</i> and its Implications in Synthetic Lethality	Nagarajan T, Meenakshi S and <b>Munavar M.H.</b>
National Science day and 44 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2013.	School of Biological Sciences, MKU	Multi-copy effect of glutamine tRNA <sup><i>glnX</i></sup> , tRNA <sup><i>glnU</i></sup> and <i>supE44</i> in Phenotypic Suppression of <i>argE3</i> and Search for Novel <i>str</i> Allele that Permit <i>supE44</i> Suppression in <i>Escherichia coli</i>	Shirony N.P., Singaravelan B and <b>Munavar M.H.</b>
International conference on "Bacterial Expressions	22-25 October, 2013.	National Centre for Biological Sciences, Bangalore,	Selective Modulation of Capsule expression by novel <i>rpoB</i> alleles in <i>Escherichia coli</i> : A pivotal role of HNS.	Meenakshi S and <b>Munavar, M.H.</b>
International conference on "Bacterial Expressions	22-25 October, 2013.	National Centre for Biological Sciences, Bangalore,	Ascribing a Novel Function to the Fast Moving RNA Polymerase with RpoB87 β-subunit in <i>Escherichia coli</i> : <i>rpoB87</i> Act as an Anti-Suppressor of <i>pheS28</i> .	Ponmani T, Meenakshi S, Kekre A, Kumaran N A M and <b>Munavar, M.H.</b>
International conference on "Bacterial Expressions	22-25 October, 2013.	National Centre for Biological Sciences, Bangalore,	Genetic Analyses of Suppressors affecting <i>faa</i> elicited Alp Phenotype in <i>lon</i> Mutant of <i>Escherichia coli</i> .	Karthik M and <b>Munavar, M.H.</b>
National Science day and 45 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2014.	School of Biological Sciences, MKU	Yet Another Evidence for the Existence of Second Promoter, "Alternate Promoter (AP)	Kumaran N.A.M and <b>Munavar, M.H.</b>
National Science day and 45 <sup>th</sup>	28 <sup>th</sup> February	School of Biological Sciences,	Molecular Analyses Reveal that <i>ces12</i> and <i>ces77</i>	Meenakshi S and <b>Munavar, M.H.</b>



Aqua-terr Annual Conference on Biological Sciences	2014.	MKU	Alleles Affecting <i>Escherichia coli</i> RNA Polymerase Suppress Capsule Expression by Different Mechanisms in $\Delta lon$ Mutant: A Pivotal Role for HNS	
National Science day and 45 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2014.	School of Biological Sciences, MKU	Novel Genetic Approach to Validate the Transcription Fidelity of Mutant RNA Polymerases of <i>Escherichia coli</i> Coded by Spectrum of Mutations in <i>rpoB</i> and Its Implications	Gahane M, Meenakshi S and <b>Munavar, M.H.</b>
National Science day and 45 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	28 <sup>th</sup> February 2014.	School of Biological Sciences, MKU	Molecular Cloning of <i>pheS19/pheS28</i> Results in Unorthodox Complementation of Ts Phenotype Due to <i>fitA76/pheS5</i> Lesions in <i>Escherichia coli</i>	Karmakar S, Kumaran NAM and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 46 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2015.	School of Biological Sciences, MKU	Analysis of Transcriptome profile of $\Delta lon$ and $\Delta lon ces12$ of <i>Escherichia coli</i> strains reveal intricacies of regulation of genome wide transcription by the fast moving RNA Polymerase and their impact.	Meenakshi S and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 46 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2015.	School of Biological Sciences, MKU	Genetic evidence for a possible interlink between hygromycin resistance and bacterial apoptosis.	Madhumathi I, Singaravelan B and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 46 <sup>th</sup> Aqua-terr Annual Conference on	27-28 <sup>th</sup> February 2015.	School of Biological Sciences, MKU	Effect of mutations in chaperon DnaJ and transfer messenger RNA (tmRNA) on suppression of selected synthetic lethality/sickness phenotype in <i>Escherichia</i>	Kartik P M, Nagarajan T and <b>Munavar, M.H.</b>

Biological Sciences			<i>coli</i> .	
National Conference on Recent Trends in Modern Biology & 46 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2015.	School of Biological Sciences, MKU	Genetic evidence for interaction between $\beta$ -subunit of RNA polymerase and <i>pheT</i> product and its implications in transcription control by Fit factor in <i>Escherichia coli</i> .	Bala A S, Madhumathi I, Vinodha S and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 46 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2015.	School of Biological Sciences, MKU	Isolation and characterization of Amikacin resistant mutants in <i>Escherichia coli</i> and their implications in multi drug resistance.	Trisha M, Madhumathi I and <b>Munavar, M.H.</b>
International Conference on "Bacterial Expressions"	1-5 <sup>th</sup> December, 2015	National Centre for Biological Sciences, Bangalore,	Genetic evidence for the possible functional similarity between antibiotic Hygromycin and the Biological Toxin Doc in <i>Escherichia coli</i> and its Implications. ( <b>Selected for special oral presentation</b> ).	Madhumathi I and <b>Munavar, M.H.</b>
International Conference on "Bacterial Expressions"	1-5 <sup>th</sup> December, 2015	National Centre for Biological Sciences, Bangalore,	Isolation and Genetic Characterization of novel <i>rpoB</i> mutants capable of suppressing Alp Phenotypes of $\Delta lon faa$ mutant of <i>Escherichia coli</i> .	Karthik M and Munavar MH.,
International Conference on "Bacterial Expressions"	1-5 <sup>th</sup> December, 2015	National Centre for Biological Sciences, Bangalore,	Genetic Evidence for a Novel role for tmRNA of <i>Escherichia coli</i> in Genotype specific Resistance to Mitomycin C and its Implications	Shanmugapriya V, Stephen R, Nagarajan T and <b>Munavar, M.H.</b>
International Conference on "Recent Trends in Biological Research	22 <sup>nd</sup> December, 2015	Ayya Nadar Janaki Ammal College, Sivakasi	Multi-copy Expression of Impaired Chaperone DnaK Affects Degradation /Activity of Substrates of Lon Protease in <i>lon</i>	Kumaran N.A.M and <b>Munavar, M.H.</b>

			Mutants of <i>Escherichia coli</i> . ( <b>Won Best Oral Presentation Award</b> ).	
International Conference on “Recent Trends in Biological Research	22 <sup>nd</sup> December, 2015	Ayya Nadar Janaki Ammal College, Sivakasi	The Base-Pair Co-ordinate G <sub>293</sub> of <i>pheS</i> Gene of <i>Escherichia coli</i> Defines a ‘Hot Spot’ for occurrence of Temperature Sensitive Mutants: Implications and its impact.	Madhumathi I, Vinodha S and <b>Munavar, M.H.</b>
National Conference on “Frontiers in Biotechnology”	18-19 <sup>th</sup> February, 2016	Bharathiar University, Coimbatore,	Suppression of Temperature Sensitive Phenotype due to a novel <i>pheT</i> mutation by four alleles of <i>rpoB</i> Coding For $\beta$ Subunit of RNA Polymerase of <i>Escherichia coli</i> and their Implications. ( <b>Won Best Poster Presentation Award</b> ).	Bala AS and <b>Munavar, M.H.</b>
National Conference on “Frontiers in Biotechnology”	18-19 <sup>th</sup> February, 2016	Bharathiar University, Coimbatore,	Transcriptome Profile of $\Delta lon$ and $\Delta lon rpoB12$ Mutants of <i>Escherichia coli</i> Reveal Modulation of Expression of 1200 Genes by the Fast Moving RNA Polymerase: Implications and Impact.	Meenakshi S and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	Mutations in Highly Conserved Tripeptide Motif (HPD) of DnaJ Co-Chaperone can Suppress the Characteristic phenotypes of $\Delta lon$ mutant of <i>Escherichia coli</i> : Allele Specificity in tmRNA Dependency	Kumaran NAM and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	Genetic Analysis of Suppression of <i>ssrA-arfA</i> Synthetic Lethality by a Novel Mutation ( <i>sas</i> ) in <i>Escherichia coli</i> .	Karthik M, Kumaran NAM and <b>Munavar, M.H.</b>

Sciences				
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological Science	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	The ability of the Histone Nucleoid Protein (HNS) of <i>Escherichia coli</i> to Function as a Repressor even in the Monomeric Form reveals Complexity in Regulation of Transcription.	Meenakshi S and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	Isolation and Genetic Characterization of Chromosomal Mutations Leading to Hygromycin Resistance in <i>Escherichia coli</i> : Impact of Glucose and Extracellular Death factor During Selection	Madhumathi I and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	A New Genetic Strategy to Isolate <i>cis</i> and <i>trans</i> Acting Mutations Affecting Regulation of Transcription by and of Cra in <i>Escherichia coli</i> and their Implications	Nagarajan T and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	Elucidation of role for Small Protein B in Mitomycin C specific DNA Damage Repair in <i>Escherichia coli</i> .	Meenakshi S, Sanskruti L and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	Ascertaining the role of <i>acrE</i> in Aminoglycosidic Antibiotic Specific Multidrug Resistance in <i>Escherichia coli</i> .	Tomali C, Madhumathi I and <b>Munavar, M.H.</b>

Biological Sciences				
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	Site Directed Mutagenesis of Selected Bases in the Cra Regulatory Region of <i>aceB</i> of <i>Escherichia coli</i> and their Effect on Transcription Regulation by Cra.	Achala A, Nagarajan T and <b>Munavar, M.H.</b>
National Conference on Recent Trends in Modern Biology & 4 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2016	School of Biological Sciences, MKU	Isolation and Genetic Characterization of Suppressor Mutations Capable of Suppressing the Ts Phenotype due to a novel <i>pheT</i> mutant of <i>Escherichia coli</i> and their Implications.	Bala, AS and <b>Munavar, M.H.</b>
International Conference on Recent Trends in Biosciences"	7 <sup>th</sup> – 9 <sup>th</sup> April, 2016.	Alagappa University, Karaikudi,	Molecular Genetic Analysis of Hyg <sup>R</sup> Mutants of <i>Escherichia coli</i> Reveal a Possible Interlink Between Hygromycin Resistance and Programmed Cell Death in Bacteria. <b>(Won Best Oral Presentation Award).</b>	Madhumathi I and <b>Munavar, M.H.</b>
International Conference on Structural and Functional Genomics	19 <sup>th</sup> – 20 <sup>th</sup> August, 2016.	Sastra University, Thanjavur,	Modulation of expression of ~1300 genes of <i>Escherichia coli</i> genome by a single point mutation ( <i>rpoB12</i> ) paves way to the isolation of bending defective <i>rcaA</i> promoter mutant.	Meenakshi S, Nagarajan T and <b>Munavar, M.H.</b>
International Conference on Structural and Functional Genomics	19 <sup>th</sup> – 20 <sup>th</sup> August, 2016.	Sastra University, Thanjavur,	Suppression of the hallmark phenotypes of <i>lon</i> mutant of <i>Escherichia coli</i> by two novel mutations in <i>dnaJ</i> : induction of HsIVU protease and Allele specificity.	Kumaran NAM and <b>Munavar, M.H.</b>

Recent Trends in Modern Biology & 48 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2017.	School of Biological Sciences, MKU	Down – Regulation of <i>rcaA</i> Affects Capsule Synthesis in $\Delta$ lon flm Mutants of <i>Escherichia coli</i> : Pivotal Role for Mutations in “HPD” Domain of DnaJ Co-chaperone	Kumaran NAM and <b>Munavar, M.H.</b>
Recent Trends in Modern Biology & 48 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2017.	School of Biological Sciences, MKU	Maiden Report on the Suppression of <i>pheT</i> Ts Mutant Phenotype by Two Novel <i>rpoB(rif)</i> Mutations in <i>Escherichia coli</i> : Elevated Transcription of <i>pheT</i> by both <i>rif</i> alleles.	S. Ashwin Sri Bala and <b>Munavar, M.H.</b>
49 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2018	School of Biological Sciences, MKU	Pinning down the sequence playing pivotal role in DNA bending located upstream of <i>rcaA</i> promoter in <i>Escherichia coli</i>	Nagarajan T and <b>Munavar, M.H.</b>
49 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2018	School of Biological Sciences, MKU	Genetic evidence for the involvement of tmRNA of <i>Escherichia coli</i> in double strand break (DSB) repair.	F.Agnes Francila, T.Nagarajan and <b>Munavar, M.H.</b>
49 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2018	School of Biological Sciences, MKU	Two – step Control of <i>RcsA</i> Activity in Phenotypically Alp Strains of <i>Escherichia coli</i> : Regulation at the level of Transcription and Proteolysis	Kumaran NAM , M.Karthik, Vikram Kumar, T.Jebasingh <b>Munavar, M.H.</b>
49 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2018	School of Biological Sciences, MKU	Genetic evidence for the Molecular Basis for pleiotropy due to <i>rif</i> mutation: important role for the Tyr change coupled with fast movement of RNAP.	M.Karthik, Meenakshi S, <b>Munavar, M.H.</b>
49 <sup>th</sup> Aqua-terr Annual Conference on Biological Sciences	27-28 <sup>th</sup> February 2018	School of Biological Sciences, MKU	Construction of <i>Mycobacterium leprae</i> 18hsp gene promoter – EGFP transcriptional fusion: Environmental and strain activation of 18hsp gene promoter.	E.A. Rehana, K. Dharmalingam, <b>Munavar, M.H.</b> and H. Shakila

### CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
Refresher course	Refresher course in Molecular Genetics	Jan 27- Feb 10, 2003	SBS, MKU	Course - Coordinator	The Indian Academy of Sciences, Bangalore
XXIV UGC-NRCBS Winter School	"Mutagenesis: a Powerful tool in Bacterial system"	July 4-18, 2012	UGC-NRCBS, SBS, MKU	Organizer	UGC
National Seminar	"Current Research in Microbiology-2015",	March 19-20, 2015	ANJA College, Sivakasi	Collaborative organizer	UGC-SERO Hyderabad and the Management of ANJA College
XXXIII UGC-NRCBS Winter School	"Differential Gene Expression in Plants & Bacteria"	January 31 <sup>st</sup> - February 14 <sup>th</sup> 2017.	UGC- NRCBS, SBS ,MKU	Organizer	UGC

### BOOK PUBLISHED

Title of the Book / Chapter	Author	Publisher	Year	ISBN Number
Nil				

### MEMBERSHIP IN ACADEMIC BODIES

Nil

## MEMBERSHIP IN PROFESSIONAL BODIES

Nil

## ADMINISTRATIVE EXPERIENCE

Role Played	Responsibilities	Period ( Month & Year)
Head, Dept. of Molecular Biology	Taking care of all the administrative works of the Department.	1997- till date
Co-ordinator, UGC CAS	Taking care of all the administrative work relative to CAS programme. Have conducted two review committee meetings,(March 2015 and March 2017.)	April, 2012 to 2017
Chairperson, School of Biological Sciences	Taking care of all the academic and administrative works of the School.	July, 2017- till date
Co-ordinator UGC- NRCBS	Taking care of all the administrative works relative to UGC- NRCBS	July, 2017- till date
Co-ordinator DBT-IPLS	Taking care of all the administrative work relative to DBT-IPLS	July, 2017- till date
Co-ordinator DST-FIST Cycle –III	Taking care of all the administrative work relative to DST-FIST Cycle –III	July, 2017- till date

## CONTACT

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