BIODATA of Dr. MINAL GARG

1. Name and full correspondence address: Dr Minal Garg, Assistant Professor, Department of Biochemistry, Lucknow University, Lucknow-226007, India

2. Email(s) and contact number(s): minal14@yahoo.com; +91 9335820857

3. Institution: Lucknow University, Lucknow, India

4. Date of Birth: 14th August 1977

5. Gender (M/F/T): F

6. Category Gen/SC/ST/OBC : Gen

7. Whether differently abled (Yes/No): No

8. Academic Qualification (Undergraduate Onwards)

Sl. No.	Degree	Year	Subject	University/ Institution	% of marks
1.	High School	**1992**	English, Hindi, Maths, Science, Social studies	KV Aliganj, Lucknow (CBSE Board)	394/500 (78.8%, I Division)
2.	10+2 (12th Class) School Leaving	**1994**	English, Maths, Physics, Chemistry, Biology	KV Aliganj, Lucknow (CBSE Board)	419/500; 83.8%, (I Division)
3.	Bachelor's degree(BSc)	**1997**	Botany, Chemistry, Zoology	University of Lucknow, Lucknow	1247/1800; 69.3% (I Division)
4.	Master's degree(MSc)	**1999**	Biotechnology	University of Roorkee, IIT Roorkee	2313/ 3000; 77.1% (I Division with honors)
5.	Doctoral Degree (PhD)	**June, 2004**	Molecular Cancer Genetics	Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow	-

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award:

PhD thesis title: Microsatellite Instability and its Correlation with Clinicopathological Behavior in Human Sporadic Carcinomas

Guide's name: Prof Balraj Mittal

Institute: Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow

Year of Award (PhD viva): June 2004, Degree Awarded: January 2005

10. Work experience (in chronological order)

S. No.	Positions held	Name of the Institute	Period of Employment		Pay Scale
			From	To	
	Assistant Professor	Lucknow University, Lucknow	September 2005 To- continuing till date		Rs 76,016/- Basic Pay: Rs 33,950/- Pay Band: Rs 15,600/- Rs 39,100/- Grade Pay: Rs 8000/-
	DST-BOYSCAST Fellow 2010-2011	Roswell Park Cancer Institute, Buffalo, NY-14203, USA	August 2011 To - August 2012		3000 USD per month
	DBT-Post Doctoral Fellow	International Center for Genetic Engineering and Biotechnology, New Delhi	January 2005 To- August 2005		Rs 15,000/- per month
	Post Doctoral Fellow	International Center for Genetic Engineering and Biotechnology, New Delhi	January 2004 To- December 2004		Rs 15,000/- per month

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No.	Name of Award	Awarding agency	Year
1.	Member of The Upstate New York Pharmacology Society	The Upstate New York Pharmacology Society, New York, USA	2012-2013
2.	DST BOYSCAST fellowship	DST, Govt. of India	August 2011-

	2010-2011		August 2012
3.	Member of the Editorial board for the journal 'World Journal of Stem Cells'.	World Journal of Stem Cells (scientific journal), China	2011 onwards
4.	Annual member of Biotechnology Society of India	Biotechnology Society of India	2002-2003
5.	Life Member of the Alumni Association of Biochemistry Department, Lucknow University,Lucknow	Alumni Association of Biochemistry Department, Lucknow University, Lucknow	2006 onwards
6.	Reviewer for the journal 'International Journal of Biomedical Science; Indian Journal of Urology, Journal of Medical Genetics and Genomics'	International Journal of Biomedical Science, Indian Journal of Urology, Journal of Medical Genetics and Genomics Molecular Cancer	2009 onwards
7.	SERC visiting fellowship	DST, Govt of India	22nd May 2009 – 19th August 2009
8.	Registered with the Women in Science panel of Indian Academy of Science.	Indian Academy of Science, India	2009 onwards
9.	Refresher Course in Biotechnology	Academic Staff College at Jawaharlal Nehru University, New Delhi	26th July 2010-20th August 2010
10.	Orientation course	Academic Staff College, University of Lucknow, Lucknow	15th November 2007-12th December 2007
11.	DBT Post Doctoral Fellow	DBT, Govt. of India	January 2005-August 2005
12.	CSIR-UGC SRF	CSIR-UGC, Govt. of India	2002-2003
13.	CSIR-UGC JRF, June 1999	CSIR-UGC, Govt. of India	2000-2002
14.	GATE – 1999, 91.6 percentile	IISc and IITs, Govt. Of India	1999

12. Publications (List of papers published in SCI Journals, in year wise descending order).

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Garg Minal	Urothelial cancer stem cells and epithelial plasticity: current concepts and therapeutic implications in bladder cancer	Cancer and Metastasis Reviews Impact Factor: **7.2**	Accepted for publication		2015
2.	Garg Minal	Emerging role of microRNAs in cancer stem cells: Implications in cancer therapy	World Journal of Stem Cells	Accepted for publication		2015

3.	Garg Minal	Targeting microRNAs in epithelial mesenchymal transition induced cancer stem cells: Therapeutic approaches in cancer	Expert Opinion in Therapeutic Targets Impact Factor: **4.901**	19(2)	285-297	2015
4.	Garg Minal	Prognostic and therapeutic applications of the molecular events in clinical management of urothelial carcinoma of bladder	Journal of Experimental and Therapeutic Oncology	10(4)	301-316	2014
5.	Garg Minal	Epithelial-mesenchymal transition – activating transcription factors – multifunctional regulators in cancer	World Journal of Stem Cells	5(4)	188-195	2013
6.	Garg Minal	MicroRNAs, stem cells and cancer stem cells.	World Journal of Stem Cells	4(7)	62-70	2012
7.	Garg Minal	Potential Therapeutic Applications of microRNAs in Response to DNA Damage in Cancer Stem Cells	Journal of Stem Cells	6(2)	51-65	2012
8.	Garg Minal	Gain of antitumor functions and induction of differentiation in cancer stem cells contribute to complete cure and no relapse	Critical Reviews in Oncogenesis	15 (1-2) 15(1)	65-90 57-78	2009
9.	Vaish Minal	Mismatch repair deficiencies transforming stem cells into cancer stem cells and therapeutic implications	Molecular Cancer Impact Factor **5.4**	6	26	2007
10.	Vaish Minal, Mandhani A, Mittal RD, Mittal B	Microsatellite instability in superficial urinary bladder tumors: A clinical significance	BMC Urology Impact Factor **1.94**	5(1)	2	2005
11.	Vaish Minal, Kumar Raj, Mittal RD and Mittal B	Evaluation of microsatellite instability in central nervous system tumors	Indian Journal of Clinical Biochemistry	20(1)	156-162	2004
12.	Vaish Minal, Mishra A, Kaushal M, Mishra SK and Mittal B	Microsatellite instability and its correlation with clinicopathological features in a series of thyroid tumors prevalent in iodine deficient areas	Exp Mol Med Imapct Factor **2.462**	36(2)	122-129	2004
13.	Kumar R, Singh V, Vaish Minal, Paul L,	Clinicopathological and genetic study of cerebral aspergillosis along with leukemic infiltration	Journal of Pediatric Neurology			2004

	Mittal B	in ALL: a case report				
14.	Vaish Minal, Mishra SK, Mandhani A, Mittal RD, Mittal B	Assessment of microsatellite instability in bladder and thyroid malignancies	Teratogenesis, Carcinogenesis and Mutagenesis	Suppl 1	255-265	2003
15.	Mukherjee M, Vaish Minal, Mittal RD, Mittal B	Allelic variation of BAT-26 and BAT-40 poly-adenine repeat loci in North Indians	Int J Mol Med Impact Factor **1.88**	9	91-94	2002
16.	Vasih Minal and Mittal B	DNA mismatch repair, microsatellite instability and cancer	Ind J of Exp Biol Impact Factor **0.753**	40	989-994	2002

13. Detail of patents: None

14. Books/Reports/Chapters/General articles etc.: **Book Chapters**

S.No.	**Title**	**Author's name**	**Publisher**	**Year**
1.	Cancer Diagnosis and treatment. In Biotechnology Applications. Edited by CSK Mishra and Pascale Champagne	Vaish Minal	IK International Publishing House Pvt. Ltd. India	2009
2.	Mismatch repair deficiencies and the origin of cancer stem cells. In: Stem Cells and Cancer. Edited by Kurt S. Zänker and Thomas Dittmar	Garg Minal	Nova Science Publishers Inc. Germany	2009
3.	Mismatch repair system: Therapeutic approaches to cancer stem cells. In: Cancer Stem Cells. Edited by Singh SR, Mishra PK and Hou SX.	Garg Minal	Research Signpost, India	2010
4.	MicroRNA profiling involved in human tumorigenesis using Bioinformatics tools. In: Bioinformatics: Genome Bioinformatics and Computational Biology**.** Edited by R Tuteja	Garg Minal	Nova Science Publishers Inc. Germany	2012

15. Any other Information (maximum 500 words)

My immediate research area at Lucknow University is to study and characterize the epithelial-to mesenchymal (EMT) pathways, its regulatory role in growth and metastasis as well as its identification and prognostic significance in urinary bladder tumors which would help in developing non-invasive, highly sensitive, specific, reliable and cost effective diagnostic and prognostic tools for tailoring the treatment at an individual patient level by identifying response to a specific therapy, thus maximizing the benefits for the appropriate patients and sparing others the morbidity of ineffective treatment.

Studying the molecular alterations associated with regulatory cellular pathways that modulate epithelial-mesenchymal transition along with the background information on clinical and familial history could provide functional implications to the genetic basis of urinary bladder cancer progression. It also provides a system-level dissection of regulatory disturbances in cancer thereby EMT information may help us in predicting tumor behavior and early detection of recurrence in non radically treated non muscle invasive bladder cancer. Thus greatly facilitate the objective of rational strategies for therapeutic intervention.

The molecular characterization of EMT and its regulatory role in cancer invasion as well as metastasis could help in exploring its effects on tumor responses to conventional and investigational therapies in urinary bladder tumors which may further change the conventional surveillance strategies to predict cancer and its recurrence in less time while optimizing the utilization of resources.