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**AMITA DUBEY**  
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### **CAREER OBJECTIVE:**

To be recognized as an efficient & intellectual individual having good interpersonal and technical skills. I aspire to get associated with an organization (teaching or research) that gives me a chance to update and spread my knowledge and which explores my potential by providing me with the opportunity to enhance my talent for the growth of organization and my satisfaction thereof.

### **PERSONAL DETAILS:**

Date of Birth: 16-04-81  
Sex: Female  
Father's Name: Late Bishwambhar Nath Misra  
Husband's Name: Mr. Sumit Dubey  
Mother's Name: Smt Savitri Misra  
Nationality: Indian  
Proficiency in: English and Hindi.

### **EDUCATIONAL QUALIFICATIONS:**

Examination	Subject	Year of Passing	Name of the Institution/Board	Percentage
PhD	Biochemistry	2012	Lucknow University	N/A
M.Sc.	Biochemistry	2004	Lucknow University	70.33
B.Sc.	Botany, Zoology, Chemistry	2002	Nari Shiksha Niketan PG College	75.33
Intermediate	English, Hindi, Biology, Physics, Chemistry	1998	Govt Girls Inter College Gonda	65.4
High School	English, Social Science, Hindi, Maths, Science, Biology	1996	KHM Girls Inter College Lucknow	68.8

### **EXPERIENCE:**

Post Name	Name & address of employer	Joining date	Leaving Date	Responsibilities carried out
Project Assistant (Level-II)	CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Kukrail Picnic Spot Road, Lucknow-226015.	01.09.04	30.09.05	Research and development
Project Assistant (Level-II)	CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Kukrail Picnic Spot	23.12.05	28.09.06	Research and development

	Road, Lucknow-226015.			
<b>UGC-JRF</b>	CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Kukrail Picnic Spot Road, Lucknow-226015.	28.09.06	27.09.08	Research and development
<b>UGC-SRF</b>	CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Kukrail Picnic Spot Road, Lucknow-226015.	28.09.08	27.09.11	Research and development
<b>SRF-LS</b>	CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Kukrail Picnic Spot Road, Lucknow-226015.	06.01.12	05.01.13	Research and development
<b>RA-Project</b>	CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Kukrail Picnic Spot Road, Lucknow-226015.	06.01.13	31.03.13	Research and development
<b>DST-Women Scientist</b>	CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow	08.08.16	Till Date	Research and development

### **WORKING SKILLS:**

- DNA/ RNA/ protein isolation.
- Protoplast isolation and subcellular localization techniques.
- DNA fingerprinting.
- Virus Induced Gene silencing (VIGS) in plants.
- Preparation and fractionation of plant extracts.
- Immunomodulatory activity testing.
- Designing suitable primers, synthesizing them by automated DNA synthesis.
- PCR and subsequent cloning.
- DNA sequencing.
- Functional characterization techniques (bacterial and yeast heterologous expression as well as *in planta* using RNAi).
- c-DNA library construction.
- SDS-PAGE, Isoelectric Focusing and 2D- SDS PAGE gel electrophoresis.
- Western Blotting.
- Exposure to MALDI.
- Cotton *in-vitro* ovule culture.
- Immunostaining.
- Enzyme assays.
- Chromatin ImmunoPrecipitation (ChIP) assay.
- Yeast two hybridization assay.
- Basic microbiological techniques.
- Basic tissue culture techniques.
- Analytical techniques like TLC, GC-MS and HPLC
- Knowledge of some bioinformatics tools like MEGA, TREEVIEW, BLAST, CLUSTAL and extraction of relevant information from databases like EMBL, NCBI, TAIR, TIGR.

### **PUBLICATIONS:**

- Kumar R., Vashisth D., **Misra A.**, Akhtar M.Q., Jalil S.U., Shanker K., Gupta M.M., Rout P.K., Gupta A.K., Shasany A.K. RNAi down-regulation of cinnamate-4-hydroxylase

increases artemisinin biosynthesis in *Artemisia annua*. *Scientific Reports*. 6:26458, 2016. DOI: 10.1038/srep26458. ISBN:2045-2322 (Citations:9)

- Nair P., **Misra A.**, Singh A., Shukla A.K., Gupta M.M., Gupta A.K., Gupta V., Khanuja S.P.S., Shasany A.K. Differentially expressed genes during contrasting growth stages of *Artemisia annua* for artemisinin content. *PLoS ONE*. 8(4), e60375, 2013. (Citations: 22), ISBN:1932-6203
- **Misra A.**, Chanotiya C.S., Gupta M.M., Dwivedi U.N., Shasany A.K. Characterization of cytochrome P450 monooxygenases from trichome enriched fraction of *Artemisia annua* L. *Gene*. 510(2): 193–201, 2012. (Citations: 20), ISBN:0378-1119
- **Misra A.**, Shukla A.K., Shasany A.K., Sundaresan V., Jain S.P., Singh S.C., Bagchi G.D., Khanuja S.P.S. AFLP markers for identification of *Aconitum* species. In: *AM Husaini (Ed.) Medicinal Plants of the Himalayas: Advances and Insights. Medicinal and Aromatic Plant Science and Biotechnology 4 (Special Issue 1)*, 15-19, 2010. (Citations: 2), ISBN:1752-3389
- **Misra A.**, Shasany A.K., Shukla A.K., Darokar M.P., Singh S.C., Sundaresan V., Singh J., Bagchi G.D., Jain S.P., Saikia D., Khanuja S.P.S. AFLP markers for identification of *Swertia* species (Gentianaceae). *Genetics and Molecular Research*. 9: 1535-1544, 2010. (Citations: 31) ISBN:1676-5680
- Bawankule D.U., Pal A., Gupta S., Yadav S., **Misra A.**, Rastogi S., Shasany A.K., Khanuja S.P.S. Protective Effect of *Ocimum sanctum* on Ethanol-induced Oxidative Stress in Swiss Albino Mice Brain. *Toxicology International*. 15: 121-125, 2008. (Citations: 4) ISBN:0971-6580
- **Misra A.**, Shasany A.K., Shukla A.K., Sundaresan V., Jain S.P., Bagchi G.D., Singh J., Khanuja S.P.S. AFLP-based detection of adulterants in crude drug preparations of the ‘Safed Musli’ complex. *Natural Product Communications*. 2: 93-97, 2007. (Citations: 8). ISBN:1934-578X

### **BOOK CHAPTER(S):**

Shubhra Rastogi, **Amita Misra** and Ajit Kumar Shasany (2016) Associating the Genes to Functions, Involved in Secondary Metabolism of Plants In: *Biotechnological Tools for Genetic Resources*. Daya Publishing House, New Delhi, pp. 201-231 (ISBN: 9789351247746).

### **CONFERENCES/ SEMINARS:**

- Presentation at international conference on Current Trends in Medicinal Plant Research organized by University of Pune, Pune on the topic “Exploring genes of plant secondary metabolic pathways for the production of economically important compounds” authored by **Amita Misra**, Ajit K Shasany, January 2012.
- Oral presentation at 80<sup>th</sup> Annual Meeting of the Society of Biological Chemists (SBC) organized by CIMAP, Lucknow on the topic “Role of cinnamate-4-hydroxylase from trichome enriched tissue of *Artemisia annua* L.” authored by **Amita Misra**, Madan M. Gupta, Ajit K Shasany, November 2011.
- Presented a poster on “DNA markers as a solution to the herbal drug adulteration problem” authored by **Amita Misra**, Ashutosh K Shukla, Subhash C Singh, V Sundaresan, Seetal P Jain, Janardan Singh, Ajit K Shasany, at National Interactive Meet 2008 at CIMAP, Lucknow.
- Presented a poster on “Expression Studies of Artemisinin Biosynthetic Pathway genes in *Artemisia annua*” authored by Alka Singh, **Amita Misra**, Priya Nair, Akhilesh K Yadav,

Ashutosh K Shukla, Ajit K Shasany, Madan M Gupta, Vikrant Gupta, at National Interactive Meet 2008 at CIMAP, Lucknow.

- Presented a poster from CIMAP, titled “Use of molecular tools to identify adulterants in crude drugs”, authored by **Amita Misra**, Ajit K Shasany, Ashutosh K Shukla and Suman PS Khanuja, in a National symposium on “Current Advances in Molecular Biochemistry: Applications in Health, Environment and Agriculture” at Lucknow University in December 2007.
- Presented a poster from CIMAP, titled “Hunting For Unknown Genes Of Artemisinin Biosynthesis Pathway In *Artemisia annua* var. CIM Arogya”, authored by Priya Nair, Ajit K Shasany, Ashutosh K Shukla, Garima Srivastava, **Amita Misra**, Suman PS Khanuja, in a National symposium on “Current Advances in Molecular Biochemistry: Applications in Health, Environment and Agriculture” at Lucknow University in December 2007.

### **SEQUENCE SUBMITTED:**

- *Artemisia annua* leaf trichome ESTs have been submitted to dbEST (NCBI) under the accession numbers GT735901-GT735931.
- *Artemisia annua* Cytochrome P450 monooxygenase (CYP) full length/partial genes have been submitted to GenBank under the accession numbers GU318226- GU318243.

### **AWARDS/ FELLOWSHIPS**

- Qualified National Eligibility Test for Junior Research Fellowship (UGC-JRF) conducted by Joint UGC-CSIR in December 2005.
- Qualified National Eligibility Test for Lecturer/ Assistant Professor in Basic Plant Sciences, conducted by Agricultural Scientists Recruitment Board (ICAR), in 2010.
- Awarded three years Women Scientist (Wos-A) Fellowship from DST in 2016 as a Principal Investigator of 30 lakhs research project.
- Awarded Web Centric Diploma (1.5 years) certificate in computers from NIIT.
- Awarded Gold Medal for standing 1<sup>st</sup> in B.Sc. examination, year 2002.
- Qualified GATE (2006) with 402 score card.

### **REFERENCES (complete contact details):**

- 1) **Dr. A. K. Shasany**  
Senior Principal Scientist,  
CSIR-CIMAP,  
Lucknow, U.P., India,  
Phone: 91-522-2718548.  
Email: [akshasany@yahoo.com](mailto:akshasany@yahoo.com)
- 2) **Prof. U. N. Dwivedi**  
Pro-Vice chancellor,  
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