

## CURRICULUM VITAE



**Dr. Suphiya Khan (Associate Professor)**

**Founder of D-Flo Aqua Remedies**

Department of Bio-Science and Biotechnology  
Banasthali University (NAAC A' Grade 2003; 2011)

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**DATE OF BIRTH: 26.02.1976**

Dr Suphiya Khan is working as a Associate Professor in the department of Bioscience and Biotechnology, Banasthali University, India. Recently her Water and Health Laboratory launched D-Flo Aqua Remedies and Company Ltd. She has fourteen years of teaching and research experience. Her strong background mainly relates to water research which special focus on Fluoride remediation, synthesis of different nonmaterial, DNA fingerprinting, chemoprofiling and Fluoride (F) phytoremediation technology. Recently, she was the finalist in the National Bioentrepreneurship competition 2017 conducted by BIRAC-C-camp. She has received various awards viz DBT-research Associateship, young scientist By ISGBRD, ICAR, recognition award for research and teaching and Indian National Academy of Sciences(INSA) international visiting scientist fellowship. She has selected as INSA visiting scientist for Turkey. She has been awarded as a principle investigator and co-investigator in various projects duly funded by UGC, MHRD, DST and DBT. Currently, she is handling Center of excellence on Water and Energy which is duly funded by MHRD with 2.5 crore rupees. Her work has been recognized internationally at various scientific conferences and journals. She has publishes over 30 peer reviewed articles and published two books on Advance lab practices on DNA fingerprinting and chemoprofiling. Dr Suphiya Khan's research interest focused on development of cost effective defluoridation technology for rural as well as urban people. She has recently filed two patents. She served as a reviewer of peer-reviewed journals in the area of DNA fingerprinting and Fluoride contamination. In addition to research, Dr Suphiya Khan is actively involved in teaching of undergraduate and post graduate students.

## Professional Experience:

- October 2011-till date: (**Associate professor**), July 2006 to Oct 2011(**Assistant Professor**),  
March 2003-July 2006: **DBT Research Associate**, Jan 2003 to March 2003 (**Lecturer**) in the  
Department of Bioscience and Biotechnology, Banasthali University (Rajasthan), 304022,  
INDIA

## Education

- 2012-2013:** Post Graduate Diploma in Intellectual Property Rights (PDGIPR) from IGNOU-  
WIPO, 76%
- 2004-2009:** Ph.D (Biotechnology), Department of Bioscience and Biotechnology, Banasthali  
University (Rajasthan), 304022, INDIA
- 1998-1999:** Master of Science (Biotechnology), M.L.S. University, Udaipur (Raj), 72.72%, First  
class

## Ongoing projects: (Total grants 2.65 Crores)

- Incubation of Idea support by Department of Science and Technology Rajasthan. F15(12)  
DST/EDP-SDP/2016-17/Part I/5745 (2 lacs) (**Ongoing**)
- UGC funded major research project titled "Comparative molecular and phytochemical  
investigation of commercially oil yielding desert plant *Simmondsia chinensis* (Jojoba)" of **Rs  
11.56 lakhs (MRP-42-208/2013(SR), 1.4. 2013 to 31.3.2017)**
- MHRD project for Center for excellence "**Water and Energy**" under training and research in  
frontiers areas of science and technology (**FAST**) ( **Sanction letter number 5-5/2014 TS VII  
(2014 to 2018) of 2.5 crore.**
- DST Water Innovation Centre (WIC)** Low Cost- Renewable Energy Driven (LC- RED) Wate  
. Treatment Solutions Project recommended

## Awards and Achievements:

- Awarded Merit scholarship by Board of Secondary Education, Ajmer (Raj).
- GATE 2000 Cleared with 93 percentile.
- Awarded Research Associate (RA) by Department of Biotechnology (DBT).
- Young Scientist award by Society of Genetics, Biotechnology Research and Development 2015  
Best oral presentation and Recognition award for Teaching and Research in International  
conference  
on Emerging trends in Biotechnology and Sciences with special reference to climatic changes  
2015.
- First prize in G. K competition at University level.
- Second prize in Cultural night at district level.
- Indira Gandhi Life Time Achievement Award -2015, by India Gandhi International Science and  
Technology Association.  
Visiting Scientist (Indian National Academy of Sciences) for SUNUM,  
Istanbul Turkey.

## Patents

- ✚ **Suphiya Khan** and **Sonu Kumari**. Product and process for Fluoride remediation. Patent File number: 201811011264. (Filed).
- ✚ **Suphiya Khan**, Khushboo Chaudhary, **Sonu Kumari**, Vinay Sharma. Nano-phytoremediation technology for Fluoride (F) removal using *Prosopis Juliflora*. Patent File number: 201711046048. (Filed)

Total number of publications (48) (Average impact 3.49)		UGC -Academic Performance Index= 963		
Journals (32)	Book Chapters (10)	Reference Book (2)	Monograph (2)	Conference Proceedings (2)
(International = 22 / National = 4 Total = 16) Average impact=2.01 Total citations= 199 H index= 7	(International Publisher = /National =10)	(International Publisher = 2)	(International Publisher = 2)	(International Publisher =2)

## Publication Summary

### Selected Publications: (Last five years) (Average Impact Factor 3.48)

Chaudhary, K., Saraswat, P.K. and **Khan, S.** (2018). Improvement in fluoride remediation technology using GIS based mapping and microbe assisted phytoremediation. *Ecotoxicology and Environment Safety*. 168, 164-176 (**Elsevier**) **Thomson Reuters Impact Factor 4.00**

✚ Kumari, S., & **Khan, S.** Effect of Fe<sub>3</sub>O<sub>4</sub> NPs on Fluoride (F) accumulation efficiency of *Prosopis juliflora*. *Ecotoxicology and Environmental Safety*, 166 (2018), 419-426. (**Elsevier**) **Thomson Reuters Impact Factor 4.00**

Kumari, S and **Khan, S** (2017). Defluoridation technology for drinking water and tea by green synthesized Fe<sub>3</sub>O<sub>4</sub>/Al<sub>2</sub>O<sub>3</sub> nanoparticles coated polyurethane foams for rural communities. *Nature Scientific report* (Accepted) ((**Thomson Reuters Impact factor 4.847**))

Ashfaq, M., Verma, N. and **Khan, S.**2017. Highly effective Cu/Zn-carbon micro/nanofiber-polymer nanocomposite-based wound dressing biomaterial against the *P. aeruginosa* multi- and extensively drug-resistant strains. *Material Science and Engineering C*, 77: 630-641. April (2017) (**Thomson Reuters Impact factor 3.420**)

Ashfaq, M., Verma, N. and **Khan, S** (2016). Carbon nanofibers as a micronutrient carrier in plants: efficient translocation and controlled release of Cu nanoparticles. *Environmental Science Nano*, DOI: 10.1039/c6en00385k Nov. (**Thomson Reuters Impact factor 6.047**).

✚ Arya, D, Agarwal, S and **Khan, S** (2016). Authentication of Different Accessions of *Simmondsia chinensis* (Link) Schneider (Jojoba) by DNA Fingerprinting and Chromatography of its Oil. *Industrial Crops and Products*, 94: 376-384 July (2016) (**Thomson Reuters Impact factor 3.554**)

Ashfaq, M., Verma, N. and **Khan, S** (2016). Copper/zinc bimetal nanoparticles-dispersed carbon nanofibers: A novel potential antibiotic material. *Material Science and Engineering C*, 59: 938-947. (**Thomson Reuters Impact factor 3.420**)

Ashfaq, M., **Khan, S.** and Verma, N. (2014). Synthesis of PVA-CAP based biomaterial in situ dispersed with Cu nanoparticles and carbon micro-nanofibers for antibiotic drug delivery applications. *Biochemical Engineering Journal*, 90: 79-89. (**Thomson Reuters Impact factor 2.589**)

Saini, P., **Khan, S.**, Bauntiyal, M. and Sharma, V. (2012). Organ –wise accumulation of fluoride in *Prosopis juliflora* and its potential for phytoremediation of fluoride contaminated soil. *Chemosphere*, 89(5): 633-635. . (**Thomson Reuters Impact factor 4.551**)

Saini, P., **Khan, S.**, Bauntiyal, M. and Sharma, V. (2012). Mapping of fluoride endemic area and assessment of F–1accumula on in soil and vegeta on. *Environ Monit Assess*, 185(2):2001-2008, DOI 10.1007/s10661-012-2683-0. (**Thomson Reuters Impact factor 1.56**)

**Khan, S.**, Vaishali and Sharma, V. (2010). Genetic differentiation and diversity analysis of medicinal tree *Syzygium cumini* (Myrtaceae) from ecologically different regions of India. *Physiology and Molecular Biology of Plants*, **16(2)**: 149-158. (**Thomson Reuters Impact factor 1.55**)

**Note: Total number of peer reviewed articles 30, book chapters 5 and 2 monographs.**

**Teaching:** Course coordinator of Genetics, Microbiology and Immunology at UG level. Course coordinator of Immunology, Microbiology and Plant Biotechnology at PG level.

**Other commitments:**

Teacher in Charge

- ✚ Departmental Library
- ✚ Departmental visits
- ✚ Syllabi related activities
- ✚ Maintenance of equipments( GC, Spectofluorimeter, spectrophotometer, balances)
- ✚ Cultural committee of Janus and science day

## References

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