

# **CURRICULUM VITAE**

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## **PRESENT POSITION**

Working as Assistant Professor (Ad-hoc) in Department of Botany, Swami Shraddhanand College, University of Delhi.

## **SPECIALIZATION OF RESEARCH**

Phytochemistry and Nanobiotechnology.

## **CAREER OBJECTIVE**

Seeking a position to utilize my skills and abilities in an organization that offers academic growth while being resourceful, innovative and flexible to be successful.

## **NATIONAL LEVEL**

- ❖ Qualified NET-JRF examination conducted by CSIR under UGC fellowship scheme on 23<sup>rd</sup> December, 2007 with Roll no. 313017.
- ❖ Qualified NET-JRF examination conducted by CSIR under CSIR fellowship scheme and 22<sup>nd</sup> June, 2008 with Roll no. 310273.
- ❖ Qualified Entrance Exam for admission to M.Sc. Botany conducted by University of Delhi in 2006.
- ❖ Qualified Entrance Exam for admission to M.Sc. Chemistry conducted by Jamia millia Islamia in 2006.

## **EDUCATIONAL QUALIFICATION**

- ❖ PhD (Phytochemistry & Nanobiotechnology) in 2014 from University of Delhi
- ❖ M.Sc. Botany with 55.4% from University of Delhi in 2008.
- ❖ B.Sc. (G) group-B with 55.6% from Acharya Narendra Dev College, University of Delhi in 2004.
- ❖ XII in 2001 from C.B.S.E., Delhi.
- ❖ X in 1998 from C.B.S.E., Delhi.

## TEACHING EXPERIENCE

- ❖ 02<sup>nd</sup> January 2014 to till date, Assistant Professor (Ad-Hoc) in Department of Botany, Swami Shraddhanand College, University of Delhi
- ❖ 04<sup>th</sup> September 2013 to 11<sup>th</sup> November 2013, Guest Lecturer in Department of Botany, SGTB, Khalsa College, University of Delhi.
- ❖ 27<sup>th</sup> July 2011 to 21<sup>st</sup> May 2012, Assistant Professor (Ad-Hoc) in Department of Biomedical Sciences, Bhaskaracharya College of Applied Sciences, University of Delhi.
- ❖ 01<sup>st</sup> August 2012 to 30<sup>th</sup> November 2012, Guest Lecturer in Department of Biomedical Sciences Bhaskaracharya College of Applied Sciences, University of Delhi.

## RESEARCH HIGHLIGHTS

- ❖ Synthesis of metal and drug nanoparticles using environmental friendly routes for different biological application.
- ❖ Natural product chemistry.
- ❖ Structure elucidation and characterization by UV-Visible, FT-IR, NMR (<sup>1</sup>H NMR and <sup>13</sup>C NMR, 2D-NMR) and Mass Spectra (TOF MS and MS-MS).
- ❖ Chromatography; TLC, Column chromatography, HPLC, GLC, Gel Filtration. Biophysical techniques; TG-DTA, DSC, Powder XRD, SEM, TEM, QELS.
- ❖ Molecular biology and Biotechnology techniques; PCR, PAGE, cell and tissue culture, NB, SB, WB.

## RESEARCH PUBLICATIONS/CONTRIBUTIONS/AWARDS

### Research Publication/Review Articles

1. Chandra R, Madan J, Singh P, Chandra A, **Kumar P**, Tomar V, Dass SK. Implications of nanoscale based drug delivery systems in delivery and targeting tubulin binding agent, noscapine in cancer cells. *Current Drug Metabolism* **2012**; 13(10):1476-1483. **ISSN (Print):** 1389-2002, **ISSN (Online):** 1875-5453.  
(Impact factor: 4.405)
2. **Kumar P**, Singh P, Kumari K, Mozumdar S, Chandra R. A green approach for the synthesis of gold nanotriangles using aqueous leaf extract of *Callistemon viminalis*. *Materials Letters* **2011**; 65(4):595-597. **ISSN:** 0167-577X.  
(Impact factor: 2.224)
3. Singh P, **Kumar P**, Kumari K, Sharma P, Mozumdar S, Chandra R. A rapid and simple route for the synthesis of lead and palladium nanoparticles in tetrazolium based ionic liquid. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2011**; 78(2):909-912. **ISSN:** 1386-1425.  
(Impact factor: 1.977)
4. Singh P, **Kumar P**, Katyal A, Kalra R, Dass SK, Prakash S. Chandra R. Synthesis and electrochemical studies of charge-transfer complexes of thiazolidine-2,4-dione with  $\sigma$  and  $\pi$  acceptors. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2010**; 75(3):983-991. **ISSN:** 1386-1425.  
(Impact factor: 1.977)
5. Singh P, **Kumar P**, Katyal A, Kalra R, Dass SK, Prakash S. Chandra R. Phosphotungstic Acid: an efficient catalyst for the aqueous phase synthesis of bis-(4-hydroxycoumarin-3-yl)methanes. *Catalysis Letters* **2010**; 134(3-4):303-308. **ISSN (Print):** 1011-372X, **ISSN (Online):** 1572-879X.  
(Impact factor: 2.244)

### Conference Proceedings

1. Chandra R, Singh P, **Kumar P**. Noscapine loaded metal nanoparticles: A promising therapy for cancer. Second World Congress, IANM II Nanomed, 2010 held at Antalya-Turkey, 3<sup>rd</sup> -6<sup>th</sup> October (**2010**).

## Book

1. Chandra R, Kumar P. Environmental Chemistry (Paryavaran Rasayan Vigyan), University Publications (2014). ISBN : 978-81-7555-662-1.

## Chapters in Books

1. Chandra R, Madan J, Singh P, **Kumar P**, Tomar V, Dass SK, Chandra A. Noscapines: Novel Carrier Systems to Target Tumor Cells. In: Thomas Ming Swi Chang editor. Selected Topics in Nanomedicine, New Jersey: World Scientific Publishing Co., Inc; 2013 p. 381-410. ISBN (hardcover): 978-981-4472-85-2, ISBN (ebook): 978-981-4472-87-6.
2. Kumari K, Singh P, Shrivastava RC, **Kumar P**, Mehrotra GK, Samim M, Chandra R, Mordhwaj. A green approach for the synthesis of Thiazolidine-2,4-dione and its analogues using gold NPs as catalyst in water. In: Khemani LD, Srivastava MM, Srivastava S editors. Chemistry of Phytopotentials: Health, Energy and Environmental Perspectives, Berlin Heidelberg: Springer; 2012, p. 329-333. ISBN (Print): 978-3-642-23393-7, ISBN (Online): 978-3-642-23394-4.

## National/International Conferences, meetings and workshops

1. Attended Third Science Conclave: A Congregation of Nobel Laureates at Indian Institute in Information Technology, Allahabad, U. P., India on 08-14 December, 2010.
2. Attended National Seminar on Current Trends in Plant Sciences, February 15 – 16, 2007.

I hereby affirm that the information furnished above is true.

Place: New Delhi, India

Date: 05/02/2021



(PRADEEP KUMAR)