**Bio-data**

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1. Date of Birth & Gender: 23 Dec1976

2. Educational Qualifications (Starting from Graduation onwards):

S.No. Degree University Year Subjects

a. B.Sc. Lucknow University 1998 Chemistry, Botany

b. M.Sc. Lucknow University 2000 Organic Chemistry

c. Ph.D. Lucknow University 2004 Synthetic Chemistry

d. CSIR-UGC NET - 2002, 2002,2003(JRF) -

3. A. Details of professional training and research experience, specifying period.

a) UGC-NET-JRF, Department of Chemistry, Lucknow University, Lucknow (2003-2005)

B. Details of employment (past). Junior Research Scientist, 2003 to2005; Lecturer, Assistant Professor, Dr.KN Modi foundation,Ghaziabad (2005-2015),As a Assistant Professor in Dr.Shakuntala Misra National Rehabilitation University,Lucknow.(2015 –to –till date)

C. List of publications during last five years (with complete details such as Journal name, all the author’s name as appeared in the journal, volume number, page number and the year of publication).

**List of Publications (Published in International/National Journal)**

1. [99m Tc-BBPA]:A possible SPECT agent to understand the role of 18-kDa translocator protein (PBR/TSPO)during neuro-glial interaction. **Bioorg Chem**. 2022, 121:105678. **(Impact factor:5. 27)**
2. A Simple and sensitive Inhibitory Kinetic method for the Carbocisteine Determination.Srivastava A., Sharma V. **Singh V.K**., Srivastava K., J.Mex.Chem Soc. 2022,66(1):81-84
3. Recent Insights of SARS-CoV-2 Potential Inhibitors, Faheem M., **Singh V.K**., Srivastava A.**Biomedical and Biotechnology Research Journal,** 2022,06:21-32.
4. A comparative catalytic study using different metal ions by incorporating functionalized metallosalen into the lacunary position of kegging polyoxometalate.Arun S. **Singh V.K**.,Naz A., Narvi S.S., Dutta P.K., **Journal of Indian Chemical Society**,2021,98:100118.
5. A modified Method for the Production of Stable Surface functionalizedBovine Serum Alumin Nanoparticles. Srivastava A.,Prajapati A.,Pramanik P., **Singh V.K.,** **Biomedical and Biotechnology Research Journal**,2021,5:335-341.
6. Synthesis and evaluation of technetium-99m labelled 1-(2-methoxyphenyl)​piperazine derivative for single photon emission computed tomography imaging for targeting 5-HT 1A.Kumari N.; Kaul A.; Varshney R.; **Singh V.K**.; Srivastava K.; Bhagat S.; Mishra A.K.; Tiwari A.K. ,**Bioorg Chem**. 2021, 111:104972. **(Impact factor:5. 27)**
7. Lanthanide (Ln3+) complexes of bifunctional chelate: Synthesis, physicochemical study and interaction with human serum albumin (HSA), Pooja, Singh D.; Aggarwal S.; **Singh V.K**.; Mishra A.K.; Tiwari A.K.; **Spectrochimica Acta** Part A: Molecular and Biomolecular Spectroscopy, 2021, 244,118808. **(Impact factor:4. 48).**
8. Performance enhancement of modified double slop passive solar still usingdifferent water based nanofluid. Patel S.K.; **Singh V.K**.; Singh M.; Singh D.; Singh D.,Materials Sci and Engg,2021,1146,012021.
9. A review on the modern synthetic approach of benzimidazole candidate. Mohd F.;Ratha A.;Pandey A.;**Singh V.K**.;Tiwari A.K.;**Chemistry Select** 2020,5,3981-3994. (Impact factor: 1.716)
10. A review on modern synthetic route for the construction of 1,3- Diazonaphthalene moiety. Mohd F.;Singh V.K.; Tiwari A.K.; **Current Organic Chemistry**,2020,.
11. Novel heterocyclic compound and method of synthesis thereof. Srivastava K.;Awasthi A.;Gupta M.;Singh, V. K., The Patent Office Journal No. 46,2019.
12. Synthesis and in Vitro Evaluation of N-Aryl Pyrido- Quinazolines Derivatives as Potent Epidermal Growth Factor Receptor Inhibitors. **Singh, V. K**.; Sharma, H.; Singh, S. K.; Gangwar, L.; **Chem. Biol. Drug. Des**. 2013, 82, 119. (Impact factor: 2.485)
13. Novel Benzimidazole Analogs as Inhibitors of EGFR Tyrosine Kinase. Yadav, S.; Sinha, D.; Singh S. K.; **Singh, V. K**; **Chem. Biol. Drug. Des**. 2012, 80, 625. (Impact factor: 2.485)
14. Quantitative Structure-Activity Relationship Analysis of 4(3H)-Quinazolone Derivatives as Tyrosine Kinase Inhibitors by Multiple Linear Regression. Srivastava, V.; Sinha, D.; Tiwari, A. K.; Sharma, H.; Sharma, R.; **Singh, V. K**.; Mishra, A. K.; **Cancer Biother. Radiopharm**. 2010, 25, 559. (Impact factor: 1.78)
15. Disubstituted 4(3H) Quinazolones:A noveal class of antitumar agents. Srivastava, V.; Srivastav A. M.; Tiwari, A. K.; Srivastava, R.; Sharma, R.; Sharma, H.; **Singh, V. K**.; **Chem. Biol. Drug. Des**. 2009, 74, 297. (Impact factor: 2.485)
16. Effect of a novel series of Benzothiazole Quinozolones on Epidermal growth factor receptor (EGFR) and Biological Evalvations. Shukla, G.; Tiwari, A. K.; Singh, V. K.; Bajpai, A.; Chandra, H.; Mishra, A. K.; **Chem. Biol. Drug. Des**. 2008, 72, 533. (Impact factor: 2.485)
17. Synthesis and biological properties of 4-(3H)-quinazolone derivatives. Tiwari, A. K.; **Singh, V. K**.; Bajpai, A.; Shukla, G.; Singh, S.; Mishra, A. K.; **Eur. J. Med. Chem**. 2007, 42, 1234. (Impact factor: 3.447)
18. Synthesis and Evaluation of Novel Benzimidazole derivate [Bz-Im] and its radio/biological study. Tiwari, A. K.; Mishra, A. K.; Bajpai, A.; Mishra, P.; Singh, S.; Sinha, D.; **Singh, V. K**.; **Bioorg. Med. Chem. Lett**. 2007, 17, 2749. (Impact factor: 2.42)
19. Synthesis and pharmacological study of novel pyrido-quinazolone analogues as antifungal, anti bacterial and anticancer agents. Tiwari, A. K.; Mishra, A. K.; Bajpai, A.; Mishra, P.; Sharma, R. K.; Pandey, **V. K.; Singh**, V. K.; **Bioorg. Med. Chem. Lett**. 2006, 16, 4581. (Impact factor: 2.42)
20. Synthesis and biological activity of some new pyrido quinazolones. Pandey, **V. K.; Singh**, V. K.; **Indian J. Chem., Sect. B**, 2006, 45, 2745. (Impact factor: 0.387).
21. Synthesis, characterization and biological activity of 1, 3, 4- substituted 2- azetidinones. Pandey, V. K.; Gupta, V. D.; Upadhyay, M.; **Singh, V. K**.; Tandon, M.; **Indian J. Chem., Sect. B**, 2005, 44, 158. (Impact factor: 0.387)
22. Synthesis and antiviral activity of Furobenzopyrones. Pandey, V. K.; **Singh, V. K**.; Tandon, M.; Joshi, M. N.; Bajpai, S. K.; **Indian J. Chem., Sect B**, 2004, 43, 1770. (Impact factor: 0.387)
23. Radiobiological evaluation of noval 4-(3H)-Quinazolone analogues.**Singh V.K**; Tiwari A.K., Indian Journal of Nuclear Medicine,2008,23,2.
24. Kinetics of Lanthanide(III) Complexes of EDTA-(His)2 An important molecule for MR and chelation therapy, Singh V.K; TiwariA.K., International Journal of Advance”technology in engineering and science.2017 ,5,2, ISSN 2348-7500.
25. CADD analysis of Noval Coumarin Derivatives, Singh V.K.;Singh P.;International Journal of Advance Research in Science & Engineering2016,5,1,219-224,ISSN 2319-8354.
26. Docking of noval RGD analogues withβ integrin,SinghV.K.;Tiwat A.K., International Journal of Advance Research in Science & Engineering,2017,6,1,933-935 ISSN 2319-8354.
27. Iron oxide nanoparticles synthesis, characterization, Singh V.K.; Srivastava V., International Journal of Advance Research in Science & Engineering,2016,05,01,ISSN 2319-8354.
28. Phosphoric acid based ligand as potential chelating agent for remediation of heavier metal-kinetic and biological evaluation**, Singh V.K.,**International Journal of Advance Research in Science & Engineering,2016,05,02 ISSN-2319-8354.
29. A Versatile tactic for etherification of glycerol,**Singh V.K**.;Singh P., International Journal of Advance Research in Science & Engineering,2017,06,01, ISSN-2319-8354.
30. Synthesis and characterization of silatelluro hetrocycles, **Singh V.K**.;Singh P, International Journal of Advance Research in Science & Engineering,2016,05,12, ISSN-2319-8354.
31. Synthesis and Antimicrobial Activity of Nove fused 4-(3H) quinazolinone Derivatives, Biochemical and Cellular Archives, 0976-1772.
32. Sysnthesis and Antimicrobial Activity of Nove Fused 4-(3H) Quinazolinone Derivatives, **Singh V.K.**;Singh S.K.;Gangwar L., International Journal of Science &Research,2013,02,04, ISSN-2319-7064.
33. Synthesis and Bioactivity of Fused 4-(3H) Quinazolone derivatives, **Singh V.K.,** International Journal of Science Technology & Management,2015,04,01,ISSN-2394-1537.

**Abstracts (Conference Proceeding) published in International Conference:**

1. “Synthesis and radio/biological evaluvation of novel benzimidazole analogues”. II International conference on heterocyclic chemistry. Dec 16-19 2006 University of Rajasthan, Jaipur.
2. “Design, synthesis (via microwave) and microbial screening of substituted ouinazolone compounds”. II International conference on heterocyclic chemistry. Dec 16-19 2006 University of Rajasthan, Jaipur.
3. “Synthesis and interaction of Novel platinum Complex with DNA in Vitro Representing new concept for improving antitumer activity”. International conference (ISCBC-2008) being held on Dec 2008, Chemistry group at BITS, Pilani, Rajasthan.
4. “Antimalerial activity of 1, 2, 4 triamino azole derivative and their pre radio studies With 99 Tc.” International conference (ISCBC-2008) being held on Dec 2008, Chemistry group at BITS, Pilani, Rajasthan.
5. “Antimalarial activity of1,2,4 triamino azole derivatives and their pre radio studies with 99mTc”,IX International Symposium on Vector Borne Diseases,&Internation Workshop on Insecticide Resistance ,Feb 14-17,2008,Puri Orissa.
6. “Interraction of novel Platinum complex with DNA in Vitro representing new concept for improving antitumor activity.” X – International Symposisium on vectors and vector borne diseases. Nov 4-6-2009 at National Institute of Malaria research Goa.
7. “Global Warming Causes; Effect and Preventation”. International Conference on Recent trends in Management Techonology and Environment; Nov 28-29, 2009 at S.D. College of Engineering & Technology Muzaffarnagar (U.P.).
8. “Synthesis and Antimicrobial Activity of Nove Fused 4-(3H) quinazolinone Derivatives”, International Conference on Interface between Chemistry and Environment (ICICE); Dec 13-14, 2012, Poster Number P-8, Ramjas College, University Enclave, Delhi.
9. “Synthesis and in vitro antitumor activity of quinazolone derivatives”. T3D-2010 International Symposium on Trends in Drugs Discovery and Development, Jan 5-8 2010 at Department of Chemistry University of Delhi (India).
10. “Synthesis, thermal/kinetics and biological activity of new benzimidazoles”. T3D-2010 International Symposium on Trends in Drugs Discovery and Development, Jan 5-8 2010 at Department of Chemistry University of Delhi (India).
11. “Acceptance in ICBBT”. Bionics Based Solar Powered Clothing for Treating Parkinson’s disease and Epilepsy; May 23-24, 2015, Singapore.

**Abstracts (Conference Proceeding) published in national Conference:**

1. “Effect of defferent surface coating via polysaccharide/oligosaccharide in oxidized and reduced stage on nano oxide of transitional metals”; Carbo XX (carbohydrate conference) Nov. 24-26, 2005 chemistry department Lucknow University, Lucknow.
2. “syntesis and design benzemidazole biological evalution of Analogus” for poster presentation at National conference on (EMSINC-2009) being held on Jan 17-20 2009 at Institute of Basic Science ,Bundelkhand University Jhansi.
3. “QSAR study and synthesis of Thioquinazolones” at National conference on (EMSINC-2009) being held on Jan 17-20 2009 at Institute of Basic Science, Bundelkhand University Jhansi.
4. “Copper induced oxidation of serotonin: Analysis of Product And Toxicity” Symposium on advanced biological inorganic Chemistry (Sabic-2009) Nov 2-4-2009. At Dept of fundamental research (TIFR) Mumbai .
5. “A Convenient Microvave Mediated Synthesis and Biological Evolution of Substituted Quinazolones Compounds”. National Conference on Green Chemistry (NCGC) September 2010.
6. “A Convenient Environment Friendly Microwave Mediated Synthesis and Biological Evaluation of Substituted 4-(3H)- Quinazolone Derivatives”. An approach to meet the challenge of sustainability in GCMS-2011, Department of Chemistry, MMH College, Ghaziabad (U.P.), January 22-23, 2011.
7. Symposium on Vitamin D Deficiency: A Silent Pandemic, Organized by Department of Biochemistry, Saturday, Nov 22, 2014, G.B. Pat Hospital, New Delhi, India.
8. “Synthesis and Antimicrobial Activities of Some Novel Heterocyclic Compounds Based on quinazolin-4(3H)-ones”. National conference on Innovations in Science & Technology for Inclusive Development (CCS University, Meerut, March 22-23, 2014).

**6. Professional recognition, awards, fellowships received**:

a) CSIR-UGC NET-JRF June 2003

b) Certificate of Reviewing: Eur. J. Med. Chem. 2013

c) Co-guidance M.Phil. dissertation: 1

d) Editorial board Member:

i) Chemical Biology & Drug Design.

ii) International journal of advance research in science& Engg.(IJARSE)

e) Worked as reviewer for J. Org. Chem., Eur. J. Med. Chem., Bioorg. Med. Chem., Curr.Org. Synth., Green and Sustainable Chemistry, Chinese Journal of Chemistry, Phosphorus, Sulfurand Silicon and the Related Elements, Journal of Taibah University for Science.

**7**. **Ongoing Project: 02**

**Topic: Luminescent nanoprobe for molecular recognition of the translocator protein(TSPO),**

Funded by: DBT,

Duration: 3Year,

Amount: **7024240/**-(seventy lakhtwenty four thousand two hundred forty only)

Status: Co Investigator