

# Curriculum Vitae



## Dr. Vinay Kumar Sharma

### Associate Professor

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**Date of Birth** : September 19th, 1970

**Marital Status** : Married

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### ❖ CURRENT STATUS

Working as *Associate Professor* at *University of Patanjali* (Department of Applied & Allied Sciences) India (November, 2019 - Till date)

### ❖ EDUCATIONAL QUALIFICATION

- Ph.D.: Medicinal Chemistry from *Indian Institute of Technology (IIT), Roorkee* (Formerly known as *University of Roorkee*), Roorkee, India (1995- 2000).

*Title of thesis: “Synthesis, Biological Evaluation and Analytical Studies of some Heterocyclic Compounds”.*

- M.Phil.: Master of Philosophy, *Applied Chemistry (Industrial Methods of Chemical Analysis)*, from *Indian Institute of Technology (IIT), Roorkee (Formerly known as University of Roorkee)*, Roorkee, India (1995).
- M.Sc. : Master of Science, *Applied Chemistry (Commercial Methods of Chemical Analysis)* from *Gurukul Kangari University, Haridwar, India (1994)*.
- B.Sc. : Bachelor of Science (Major: Chemistry) from *Gurukul Kangari University, Haridwar, India (1990)*.

- ❖ **WORK EXPERIENCE**

- Worked as *Scientist F* at Drug Discovery & Development Division, Patanjali Research Foundation, Haridwar, Uttarakhand, India August 2016 – Oct. 2019)
- Worked as *Senior Research Scientist* at Patanjali Natural Coloroma Pvt Ltd, India (Oct. 2014 ~ July 2016).
- Worked as *Postdoctoral Scientist* at Institute of Drug Research & Development, College of Pharmacy, Chungnam National University, Daejeon, South Korea. (Nov. 2009 ~ July, 2014)
- Worked as *Associate Scientist* at New drug discovery division, Aurigene Discovery Technologies Ltd., Bangalore, India (March 2007 ~ July 2009)
- Worked as *Research Scientist* in New Drug Discovery Orchid Research Laboratories Limited, Chennai, India ( Jan. 2006 ~ Feb. 2007)
- Worked as *COE Post Doctoral Fellow* at Kyoto Pharmaceutical University, Kyoto, Japan. (May 2004 ~ March 2005)
- Worked as *Post Doctoral Fellow* at Institute of Drug Research & Development, College of Pharmacy, Chungnam National University, South Korea (April 2003 ~ April 2004)
- Worked as *Research Fellow* at Biochemistry Laboratory, Dept. of Biology, Kongju National University, South Korea Nov. 2001 ~ Feb. 2003

- ❖ **Administrative Work Experience (At University)**

- ✓ Working as **Assistant Dean (Research)** since 2021 to till date.
- ✓ Working as **Assistant Controller of Examination (ACOE)** since 2022 to till date.

- ✓ Working as **Course Coordinator** for PGDYA (Post graduate Diploma for Yoga and Ayurveda) since 2021-till date
- ✓ Working as **Co-Course Coordinator** for B.Sc (H) Biological Science since 2021-till date.

### ❖ AWARDS

- ✓ Awarded **Postdoctoral Fellowship** by National Research Foundation Korea under Priority Research center program at Institute of Drug Research & Development, College of Pharmacy, CNU, Korea (2009-July, 2014).
- ✓ **Performance recognition award** for achieving milestone in the drug discovery based project (anti-cancer), Aurigene Discovery Technologies Limited, Bangalore, India. (2007).
- ✓ Awarded **COE Postdoctoral Fellowship** under “The 21st Century COE Program” of the Ministry of Education, Culture, Sports, Science and Technology of Japan. (2004).
- ✓ Awarded **Senior Research Fellowship** by Council of Scientific and Industrial Research (**CSIR**), New Delhi, India (1996)
- ✓ Participated as Speaker in 7 Days **International Yoga Webinar** Organized by University of Patanjali from 15-21 June, 2021.
- ✓ Participated as Invited speaker in virtual live programme **GYAN PRAVAH** organized by University of Patanjali, Haridwar, July, 2021.
- ✓ **Teacher day award** on 5<sup>th</sup> September 2021.
- ✓ Certificate of appreciation for organizing the **Van Mohatsav** on 6<sup>th</sup> July 2021.
- ✓ Certificate of appreciation for organizing the **Science Quiz Competition** on 6<sup>th</sup> July 2021.
- ✓ Participate in National Seminar on “**INTELLECTUAL PROPERTY RIGHTS: NEED, PROSPECTS, AWARENESS AND CHALLENGES IN HERBAL MEDICINE SECTOR**” organized by Patanjali Research Foundation Trust Haridwar, Uttarakhand and Ucost in March 2021.

### ❖ CAREER HIGHLIGHTS

- ✓ Around 5 year teaching experience for undergraduate and postgraduate students for various subjects like biochemistry, Drug discovery, Human anatomy, biomaterials etc

- ✓ Around 19 years of work experience in drug discovery projects (Natural & Synthetic products) based on various targets such as anti-cancer, inflammation and melanogenesis in pharmaceutical industry and academic research.
- ✓ Excellent teamwork, interpersonal and presentation skills.
- ✓ Strong drug discovery project management skills; adapt at operating budget restriction and time constrains of pharmaceutical industry.
- ✓ Well organized, trained, self-motivated and ambitious.
- ✓ Excellent planning, analysis, negotiation, troubleshooting and reporting skills.

#### ❖ **SCIENTIFIC PUBLICATIONS**

1. Acharya Balkrishna, Kuldeep Singh, Abhishek Sharma, **Viany Kumar Sharma**, Swami Narsingh Chandra, Gurpreet Oberoi, Paran Gowda. ABO blood group phenotypes and dental disorders-Is there any relation? A cross sectional study in Haridwar, Uttarakhand, India **Journal of Oral Health and Oral Epidemiology, July 2021, 10 (3), 122-127**
2. Acharya Balkrishna, **Vinay Kumar Sharma**, Subrata Das, Nayan Mishra, Laxmi Bisht, Alpana Joshi, Niti Sharma. Characterization and anti-cancerous effect of *Putranjivaroxburghii* seed extract mediated silver nanoparticles on human colon (HCT-116), pancreatic (PANC-1) and breast (MDA-MB 231) cancer cell lines. **International Journal of Nanomedicine 2020:15 573–585 (Dove Publications).**
3. Prateek Pathak, Jurica Novak, Vladislav Naumovich, Maria Grishina, Acharya Balkrishna, Niti Sharma, **Vinay Sharma**, Vladimir Potemkin, Amita Verma. 2020. Polyphenolic rich extract of *Oroxylum indicum* alleviate  $\beta$ -glucuronidase activity via down-regulate oxidative stress: Experimental and computational studies. **Biocatalysis and Agricultural Biotechnology (Elsevier Science Publication), Volume 29, 10180, doi.org/10.1016/j.bcab.2020.101804**
4. Acharya Balkrishna, Sachin Shridhar Sakat, Kheemraj Joshi, Kamal Joshi, **Vinay Sharma**, Ravikant Ranjan, Kunal Bhattacharya and Anurag Varshney. Cytokines Driven Anti-

Inflammatory and Anti-Psoriasis Like Efficacies of Nutraceutical Sea Buckthorn (Hippophaerhamnoides) Oil. *Frontiers in Pharmacology*, 2019; 10: 1186.

5. Acharya Balkrishna, Ravikant Ranjan, Sachin S Sakat, **Vinay K. Sharma**, RavikantShukla,Khemraj Joshi, RavirajDevkar, Niti Sharma, Sonia Saklani, Prateek Pathak, Pratima Kumari, andVeena R. Agarwal. **2019**. Evaluation of Polyherbal Ayurvedic Formulation ‘Peedantak Vati’ for Anti-inflammatory and Analgesic Properties. *Journal of Ethnopharmacology (Elsevier Science Publication)*, 235:361-74.
6. AcharyaBalkishan, Niti Sharma, **Vinay K. Sharma**, Nayan Deep Mishra and C. S.Joshi. Green Synthesis, Characterization and Biological Studies of Silver NanoparticlesPrepared using Shivlingi (*Bryonialaciniosa*) Seed Extract.*IET Nanobiotechnology (England)*, **Volume 12, Issue 3, April 2018, p. 371 – 375**.
7. Niti Sharma, **Vinay Kumar Sharma**, Hemanth Kumar Manikyam, AcharyaBal Krishna. **2016**. Ergot Alkaloids: A Review on Therapeutic Applications. *European Journal of Medicinal Plants*,14(3): 1-17.
8. AcharyaBal Krishna, Hemanth Kumar Manikyam, **Vinay K. Sharma** and Niti Sharma. 2015. Plant Cardenolides in Therapeutics. *International Journal of Indigenous Medicinal Plants*, 48(2), 1871-1896.
9. Acharya Balkrishan, Rajesh Mishra, Niti Sharma, **Vinay K Sharma**, Laxmi Naryan Misra. **2018**. Phytochemical, Botanical and Biological Paradigm of Astavarga Plants- The Ayurvedic Rejuvenators. *Journal of Natural & Ayurvedic Medicine*, 2(6):1-24.
10. Acharya Balkrishan, Niti Sharma, **Vinay K Sharma**. **2018**. *Chakra* genesis, A Correlation between Evolution of *Chakras* & Embryogenesis. *J Yoga and Physiotherapy*, 6(4):1-6.
11. Acharya Balkishan, Niti Sharma, **Vinay K Sharma**, Ashish Kumar Gupta. **2017**. Cytochrome p450 inhibition study of *Picrorhiza kurroa*: evaluation of herb-drug interaction. *World Journal of Pharmacy and Pharmaceutical Sciences*, 6(2): 1338-1343.
12. Acharya Balkishan, Hemanth Kumar Manikyam, **Vinay K Sharma**, Niti Sharma. **2016**. Safety Evaluation of *Picrorhiza kurroa* Rhizome Extract by Bacterial Reverse Mutation Test. *Advanced Studies in Biology*, 8( 3): 127 – 140

13. Acharya Balkishan, Hemanth Kumar Manikyam, **Vinay K Sharma**, Niti Sharma. 2016. Clastogenic Effect of *Picrorhiza kurroa* Rhizome Extract on Cultured Human Peripheral Blood Lymphocytes. *Journal of Herb-Med Pharmacology*, 5(4):131-136.
14. Niti Sharma, **Vinay Kumar Sharma**, Hemanth Kumar Manikyam, Acharya Bal Krishna. 2016. Ergot Alkaloids: A Review on Therapeutic Applications. *European Journal of Medicinal Plants*, 14(3): 1-17.
15. Acharya Bal Krishna, Hemanth Kumar Manikyam, **Vinay K. Sharma** and Niti Sharma. 2016. Acute oral toxicity study in rats with *Mucuna pruriens* seed extract. *Asian Journal of Plant Science and Research*, 6(2): 1-5.
16. Acharya Bal Krishna, Hemanth Kumar Manikyam, **Vinay K. Sharma** and Niti Sharma. 2016. Spirituality and Science of Yogic Chakra: A Correlation. *Asian Journal of Complementary and Alternative Medicine*, 4(11):17-22.
17. Acharya Bal Krishna, Hemanth Kumar Manikyam, **Vinay K. Sharma** and Niti Sharma. 2016. Cytotoxicity Study in Non-Malignant Fibroblast L929 Cell Line with *Mucuna pruriens* Seed Extract. *International Journal of Phytomedicine*, 7 (4), 366-369.
18. Acharya Bal Krishna, Hemanth Kumar Manikyam, **Vinay K. Sharma** and Niti Sharma. 2016. Single Dose Oral Toxicity Study of *Picrorhiza kurroa* Rhizome Extract in Wistar Rats. *Fundamental Toxicol. Sci.*, 3(1), 9-12.
19. Acharya Bal Krishna, Hemanth Kumar Manikyam, **Vinay K. Sharma** and Niti Sharma. 2015. Acute Oral Toxicity Study of *Paris polyphylla* extract in Rats. *International Journal of Phytomedicine*, 7 (3), 359-365
20. Hyun-Sun Yang, EedaVenkateswararao ,Pulla Reddy Boggu, **Vinay K. Sharma**, Youngsoo Kim, Sang-Hun Jung. Novel analogs of N-acylhydroxyethylaminomethyl-4H-chromen-4-one scaffold as IL-5 inhibitors *Bioorganic & Medicinal Chemistry (Elsevier Science Publication)*,25, 2017, 4330-4338.
21. Ki-Cheul Lee, EedaVenkateswararao, **Vinay Kumar Sharma**, Sang-Hun Jung, Investigation of amino acid conjugates of (S)-1-[1-(4-aminobenzoyl)-2,3-dihydro-1H-indol-6-sulfonyl]-4-phenyl-imidazolidin-2-one (DW2282) as water soluble anticancer prodrugs. *European Journal of Medicinal Chemistry(Elsevier Science Publication)*, 80, 2014, 439-446.

22. EedaVenkateswararao, **Vinay K. Sharma**, Jieun Yun, Youngsoo Kim, Sang-Hun Jung. Anti-proliferative effect of chalcone derivatives through inactivation of NF- $\kappa$ B in human cancer cells. *Bioorganic & Medicinal Chemistry (Elsevier Science Publication)*, 22, 2014, 3386-3392.
23. EedaVenkateswararao, **Vinay K. Sharma**, Ki-Cheul Lee, EunmiriRoh, Youngsoo Kim, Sang-Hun Jung. Design and synthesis of novel chromenone derivatives as interleukin-5 inhibitors. *Bioorganic & Medicinal Chemistry (Elsevier Science Publication)*, 21, 2013, 2543–2550.
24. EedaVenkateswararao, Min-Seok Kim, **Vinay K. Sharma**, Ki-Cheul Lee, Santhosh Subramanian, EunmiriRoh, Youngsoo Kim, Sang-Hun Jung. Identification of novel chromenone derivatives as interleukin-5 inhibitors. *European Journal of Medicinal Chemistry*, 59, 2013, 31-38.
25. CheonikJoo, EedaVenkateswararao, Ki-Cheul Lee, **Vinay K. Sharma**, Min-SikKyung, Youngsoo Kim, Sang-Hun Jung. Novel interleukin-5 inhibitors based on hydroxyethylaminomethyl-4H-chromen-4-one scaffold. *Bioorganic & Medicinal Chemistry (Elsevier Science Publication)*, 20, 2012, 5757-5762.
26. EedaVenkateswararao, **Vinay K. Sharma**, Ki-Cheul Lee, Niti Sharma, Sun-Hong Park, Youngsoo Kim, Sang-Hun Jung. A SAR study on a series of synthetic lipophilic chalcones as Inhibitor of transcription factor NF- $\kappa$ B. *European Journal of Medicinal Chemistry (Elsevier Science Publication)*, 54, 2012, Pages 379-386.
27. EedaVenkateswararao, Hoang Le Tuan Anh, **Vinay K. Sharma**, Ki-Cheul Lee, NitiSharma, Youngsoo Kim, Sang-Hun Jung. Study on anti-proliferative effect of benzoxathione derivatives through inactivation of NF- $\kappa$ B in human cancer cells. *Bioorganic & Medicinal Chemistry Letters (Elsevier Science Publication)*, 22, 2012, 4523-2427.
28. PillaiyarThanigaimalai, EedaVenkateswaraRao, Ki-Cheul Lee, **Vinay K. Sharma**, EunmiriRoh, Youngsoo Kim, Sang-Hun Jung. Structure–activity relationship of naphthaldehyde ethiosemicarbazones in melanogenesis inhibition. *Bioorganic & Medicinal Chemistry L*

- etters (*Elsevier Science Publication*),22, 2012, 886-889.5.
29. **Vinay K. Sharma**, Ki-Cheul Lee, EedaVenkateswararao, CheonikJoo, Min-Seok Kim, Niti Sharma, Sang-Hun Jung. Structure–activity relationship study of arylsulfonylimidazolidinones as anticancer agents. *Bioorganic & Medicinal Chemistry Letters (Elsevier Science Publication)*,21, 2011, 6829-6832.
  30. **Vinay K. Sharma**, Ki-Cheul Lee, CheonikJoo, Niti Sharma, and Sang-Hun Jung. Importance of Imidazolidinone Motif in 4-Phenyl- *N*-arylsulfonylimidazolidinone for their Anticancer Activity.*Bulletin of the Korean Chemical Society (KCS Publication)*, 2011 , Vol. 32, No. 8, 3009-16.
  31. **Vinay K. Sharma**, Dang The Hung, Ki-Cheul Lee, P. Thanigaimalai, Jong Seong Kang, Hwan-Mook Kim and Sang-Hun Jung. Effect of the isosteric replacement of the phenyl motif with furyl (or thienyl) of 4-phenyl-*N*-arylsulfonylimidazolones as broad and potent anticancer agents. *Med. Chem. Commun. (RSC Publication)*,2, 2011, 731.
  32. Santhosh Subramanian, Nam-Soo Kim, PillaiyarThanigaimalai, **Vinay K. Sharma**, Ki-Cheul Lee, Jong Seong Kang, Hwan-Mook Kim, Sang-Hun Jung. Structure-activity relationship studies of novel arylsulfonylimidazolidinones for their anticancer activity. *European Journal of Medicinal Chemistry (Elsevier Science Publication)*, 46, 2011, 3258-3264.
  33. PillaiyarThanigaimalai , Ki-Cheul Lee , **Vinay K. Sharma** , CheonikJoo , Won-Jea Cho , EunmiriRoh ,Youngsoo Kim , Sang-Hun Jung. Structural requirement of phenylthiourea analogs for their inhibitory activity of melanogenesis and tyrosinase. *Bioorganic & Medicinal Chemistry Letters (Elsevier Science Publication)*,21, 2011, 6824-6828.
  34. PillaiyarThanigaimalai,Ki-CheulLee,**Vinay Kumar Sharma**,NitiSharma,EunmiriRoh,Youngsoo Kim, Sang-Hun Jung. Identification of Indoline-2-thione Analogs as Novel Potent Inhibitors of  $\alpha$ -Melanocyte Stimulating Hormone Induced Melanogenesis.*Chemical and Pharmaceutical Bulletin (The Pharmaceutical Society of Japan publication)*, 59 (10), 2011, 1285-1288.
  35. PillaiyarThanigaimalai, Ki-Cheul Lee, **Vinay K. Sharma**, EunmiriRoh, YoungsooKim,Sang-Hun Jung. Ketonethiosemicarbazones: Structure-Activity Relationships for their Melanogenesis Inhibition. *Bioorganic & Medicinal Chemistry Letters (Elsevier Science Publication)*,21, 2011, 3527-3530.



36. PillaiyarThanigaimalai, Ki-Cheul Lee, **Vinay K. Sharma**, EedaVekateswaraRao, EunmiriRoh, Youngsoo Kim, Sang-Hun Jung. Structural requirements of (E)-6-benzylidene-4a-methyl-4,4a,5,6,7,8-hexahydronaphthalen-2-(3H)-one derivatives as novel melanogenesis inhibitors. *Bioorganic & Medicinal Chemistry Letters (Elsevier Science Publication)*, 21, **2011**, 1922-1925.
37. Ki-Cheul Lee, PillaiyarThanigaimalai, **Vinay K. Sharma**, Min-Seok Kim, EunmiriRoh, Bang-Yeon Hwang, Youngsoo Kim, Sang-Hun Jung. Structural characteristics of thio semicarbazones as inhibitors of melanogenesis. *Bioorganic & Medicinal Chemistry Letters (Elsevier Science Publication)*, 20, **2010**, 6794-6796.
38. P. Thanigaimalai, Ki-Cheul Lee, **Vinay K. Sharma**, Jun-Ho Yun, Youngsoo Kim, Sang-Hun Jung. Design and synthesis of novel hydroxyalkylaminomethylchromones for their IL-5 inhibitory activity. *Bioorganic & Medicinal Chemistry (Elsevier Science Publication)*, 18, **2010**, 4625-4629.
39. P. Thanigaimalai, Hyun-Mo Yang, **Vinay Kumar Sharma**, Youngsoo Kim, Sang-Hun Jung. The scope of thallium nitrate oxidative cyclization of chalcones; synthesis and evaluation of isoflavone and aurone analogs for their inhibitory activity against interleukin-5. *Bioorganic & Medicinal Chemistry (Elsevier Science Publication)*, 18, **2010**, 4441-4445.
40. PillaiyarThanigaimalai, **Vinay K. Sharma**, Ki-Cheul Lee, Cheong-Yong Yun, Youngsoo Kim, Sang-Hun Jung. Refinement of the pharmacophore of 3,4-dihydroquinazoline-2(1H)-thiones for their anti-melanogenesis activity. *Bioorganic & Medicinal Chemistry Letters (Elsevier Science Publication)* 20, 2010, 4771-4773.
41. P. Thanigaimalai, Tuan Anh Le Hoang, Ki-Cheul Lee, Seong-Cheol Bang, **Vinay K. Sharma**, Cheong-Yong Yun, EunmiriRoh, Bang-Yeon Hwang, Youngsoo Kim, Sang-Hun Jung. Structural requirement(s) of N-phenylthioureas and benzaldehydethiosemicarbazones as inhibitors of melanogenesis in melanoma B 16 cells. *Bioorganic & Medicinal Chemistry Letter (Elsevier Science Publication)s*, 20, **2010**, 2991-2993.
42. Jee-Hyun Lee, PillaiyarThanigaimalai, Ki-Cheul Lee, Seong-Cheol Bang, Min-Seok Kim, **Vinay Kumar Sharma**, Cheong-Yong Yun, EunmiriRoh, Youngsoo Kim, Sang-Hun Jung. Novel Benzo[d]imidazole-2(3H)-thiones as Potent Inhibitors of the  $\alpha$ -MSH induced Melanogenesis in Melanoma B16 Cells. *Chemical and Pharmaceutical Bulletin (The Phar*

- maceutical Society of Japan publication*), 58 (7), 2010, 918-921.
43. PillaiyarThanigaimalai, Tuan Anh Le Hoang, Ki-Cheul Lee, **Vinay K. Sharma**, Seong-Cheol Bang, Jun Ho Yun, EunmiriRoh, Youngsoo Kim, Sang-Hun Jung. Synthesis and evaluation of novel chromone analogs for their inhibitory activity against interleukin-5. *European Journal of Medicinal Chemistry (Elsevier Science Publication)*, 45, 2010, 2531-2536.
  44. Magne O. Sydnnes, YoshioHayashi, **Vinay K. Sharma**, TakashiHamada, UsmanBacha, Jennifer Barrila, Ernesto Freire, Yoshiaki Kiso. Synthesis of Glutamic acid and Glutamine peptides possessing a Trifluoromethyl Ketone Group as SARS-CoV 3CL protease inhibitors. *Tetrahedron(Elsevier Science Publication)*, 62, 2006, 8601.
  45. Niti Sharma, **Vinay K. Sharma**, Sung-Yum Seo. Screening of some medicinal plants for anti-lipase activity. *Journal of Ethnopharmacology(Elsevier Science Publication)*, 97, 2005, 453.
  46. **Vinay K. Sharma**, Jinsuk Choi, Niti Sharma, Mieyoung Choi, Sung-Yum Seo. *In vitro* Anti-Tyrosinase Activity of 5-(Hydroxymethyl)-2-furfural isolated from *Dictophoraindusiata*. *Phytotherapy Research (John Wiley & Sons Ltd. Publication)*, 18 (10), 2004, 841.
  47. Sung-Yum Seo, **Vinay K. Sharma**, Niti Sharma. Mushroom Tyrosinase: Recent Prospects, *Journal of Agricultural and Food Chemistry(ACS Publication)*, 51, 2003, 2837.
  48. A. K. Jain, S. M. Sondhi, **Vinay K. Sharma**. Synthesis, characterization and Hg (II) ion selectivity of 1-(2-nitro-4-methylphenyl)-6-methyl-6-methoxy-1,4,5,6-tetrahydropyrimidine-2-(3H)-thione(TPT), *Electroanalysis (WILEY-VCH Verlag GmbH publication)*, 12, No.4, 2000, 301.
  49. S. M Sondhi, R. P Verma, NidhiSinghal, **V. K Sharma**, C Husiu, L Vargiu, S Longu, P. LA Colla. Anti-HIV, antibacterial and antifungal activities evaluation of a variety of heterocyclic compounds containing N and/ or Sulfur, *Indian J. Pharma. Sci. (IPA publication)*, 62, 2000, 71.
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- atives. *Phosphorous, sulfur and silicon and the Related Elements (Taylor & Francis Publication, UK)*, 156, 2000, 21.
51. Sham M. Sondhi, **Vinay K. Sharma**, Rajeshwar P. Verma, Nidhi Singhal, Rakesh Shukla, Ram Raghbir, Mangal P. Dubey. Synthesis, anti-inflammatory and analgesic activity evaluation of some mercapto- pyrimidine and pyrimidobenzimidazole derivatives. *Synthesis (ThiemeVerlag Publication, Germany)*, No. 5, 1999, 878.
52. Sham M. Sondhi, Rajeshwar P. Verma, **Vinay K. Sharma**, NidhiSinghal, Jean L. Kraus, Michel Camplo, Jean-Claude Chermann. Synthesis and anti-HIV screening of some heterocyclic compounds, *Phosphorous, sulfur and silicon and the Related Elements (Taylor & Francis Publication, UK)*, 112, 1997, 215.
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## ➤REFERENCES

1. **Professor (Dr.) L N Misra**,  
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**Date: 14th Feb, 2023**

**Vinay Kumar Sharma**