

## **CURRICULUM-VITAE**

### **VINOD KUMAR**

Associate Professor

Department of Chemistry, School of Chemical Sciences

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### **EDUCATION**

- 2002-2006** : Ph.D. (Chemistry), Kurukshetra University, Kurukshetra, India  
**July 2001** : NET conducted by CSIR-UGC, New Delhi, India  
**1999-2001** : M.Sc. (Chemistry), with 1<sup>st</sup> Division, Kurukshetra University, India  
**1996-1999** : B.Sc. (Chem. Hons) with 1<sup>st</sup> Division, Kurukshetra University, India

### **EXPERIENCE** [TEACHING & RESEARCH] **12 Years**

- August 2018 - Present** : Associate Professor, Department of Chemistry, Central University of Haryana, Mahendergarh, Haryana  
**March 2018 - July 2018** : Asst. Professor, M. N. College, Shahabad (M), Haryana  
**July 2017 - Feb 2018** : Asso. Professor, M. M. University, Mullana, Ambala, Haryana  
**Aug. 2009 - June 2017** : Assistant Professor, M. M. University, Mullana, Ambala, Haryana  
**July 2007 - July 2009** : Research Scientist, R & D-I, Jubilant Oragnosys Ltd, U.P., India  
**Jan. 2007 - Jul. 2007** : Assistant Professor, DN College, Hisar, Haryana

### **HONORS/ AWARDS/GRANTS**

- 2017** : **Haryana Yuva Vigyan Ratna Award** presented by Hon'ble Governor of Haryana, Hon'ble Chief Minister, Haryana, and Hon'ble Science & Technology Minister, Haryana.  
**2017** : **Professor R. C. Shah Memorial Lecture Award** of ISCA at SV University, Tirupati, AP.  
**2007** : **ISCA Young Scientist Award**, presented by Hon'ble then President of India in the field of Chemical Sciences.  
**2014** : Research Grant of **Rs 30.30 lacs** has been sanctioned by **ICMR** (as **Co-PI**).  
**2012** : Invited as a **Foreign Expert** (duration Jul. - Sep. 2012), by Korea Atomic Energy Research Institute, South Korea.

### **RESEARCH AREAS**

Heterocyclic Chemistry (Azoles' Chemistry), Green Chemistry, Medicinal Chemistry, Process Development

#### **Specific research interests:**

- Synthesis of new biologically potent heterocycles (anticancer, anti-inflammatory, antibacterial, antifungal agents)
- To study mechanistic aspects involved in formation of heterocycles

- To explore the chemistry of reagents in organic synthesis
- To study NMR spectral characteristics of heterocycles
- To explore the utility of Solid-Phase syntheses
- To develop cost effective processes for the organic compounds of wide applications

### RESEARCH GUIDANCE

- Supervised **3** Ph.D. + **1** M.Phil. + **19** M.Sc. students.
- One of the research students of my group received **Best Poster Presentation Award** in Feb 2014 at Department of Chemistry, Punjab University, Chandigarh
- Supervised one PhD student under DST INSPIRE Fellowship Scheme (2010-2015).

### MEMBERSHIPS

- Indian Science Congress Association (**Life Member, L29093**)
- Vigyan Bharti or VIBHA (**Life Member**)
- Vidyarathi Vigyan Manthan (**State Coordinator-Haryana**)
- Youth Affairs Organization(**General Secretary**)

### EDITORIAL MEMBER/REVIEWER/GUEST EDITOR OF THE JOURNALS/BOOKS

- Serving more than 40 journals of Royal Society, Elsevier, Hindawi, Springer, Bentham, Taylor Francis and other publishers.

### OTHER INSTITUTIONAL RESPONSIBILITIES

Member of Academic Council, Central University of Haryana (2018-2021)

Member of NAAC committee at Institute level (2018)

### PUBLICATIONS:

#### PATENTS (06) /COPYRIGHTS (01)

1. 1, 4-Diaryl-2-mercaptoimidazoles as antimicrobial agents, G. K. Gupta, R. Khare, V. Saini, **V. Kumar**, No. 2436/del/**2013** (Application filed on dated 16/8/**2013**).
2. Process for synthesis of chalcones and uses thereof, **V. Kumar**, K. Kaur, D. Adnan, G. K. Gupta, V. Beniwal, S. Kumar, No.146/DEL//**2014** (Application filed on dated 17/1/**2014**, published 2015).
3. Process for Novel 2-(3, 5-dimethyl-1*H*-pyrazol-1-yl)-1-arylethanones as DNA photocleaving Agents, **V. Kumar**, K. Kaur, V. Beniwal, G. K. Gupta, A. K. Gupta, No.144/DEL/**2014** (Application filed on dated 17/1/**2014**, published 2015).
4. 2-(3,5-Dimethyl-1*H*-pyrazol-1-yl)-1-(naphth-2-yl)ethanone as potential anticolon cancer agent, **V. Kumar**, K. Kaur, D. Karelia, A. K. Sharma, G. K. Gupta, A. K. Gupta, No.145/DEL/**2014** (Application filed on dated 17/1/**2014**, published 2015).
5. Greener synthetic protocol for 1, 5-Diaryl-3-trifluoromethylpyrazoles, G. K. Gupta, **V. Kumar**, V. Saini TEMP/E- 1/39539/2017- DEL (Application filed on dated 30/10/**2017**).
6. Cinnamaldehyde and its derivatives as potential anti-skeletal muscle atrophy agents and thereof uses, A. Kumar, **V.Kumar**, TEMP/E1/43037/2017-DEL (application filed on dated 30/11/**2017**).

7. Logbook Register for pharma institution laboratory, G. K. Gupta, V. Saini, **V. Kumar**, A copyright granted on dated 27/03/2014, Registration No. **L58638/2014** dated 26-5-2014.

### BOOKS (02 international) /BOOKS' CHAPTERS (01 international)

#### **Books:**

**"Pericyclic Reactions: A Mechanistic and Problem Solving Approach"**, ISBN: 978-012-8036402, 978-012-8036400, **September 2015**, 1<sup>st</sup> edition, **Academic Press, London**, An imprint of **Elsevier**.

**"Chemical Drug Design"** published in **Oct, 2016**, ISBN: 978-3-11-036882-6 (publisher *De Gruyter*, Berlin, Germany)

**Book Chapters:** Solid phase synthesis and computational study of some thiazole derivatives of potential biological interest, G. K. Gupta, V. Saini, R. Khare, V. Kumar, S. Singh and K. Kaur, **Industrial, medical and environmental applications of microorganisms: Current status and trends**, Wageningen Academic Publishers, The Netherlands, ISBN: 978-90 -8686-243-6, pp590-594, **2014**.

### TOTAL RESEARCH PUBLICATIONS

**Published** : 70 (63 International + 7 National)

**Conferences/Seminars/Symposium/Workshops Attended** : 40

**Total Citations** : 1112, **h – Index:** 19, **Impact Factor** : > 100

Impact factor	No. of Papers
none	7
0.1-1	20
1-2	26
<b>2-3</b>	8
<b>3-4</b>	4
<b>4-5</b>	5

Publisher	No. of Papers
Elsevier	11
Springer	12
Bentham	12
Wiley	04
Taylor & Francis	03
NISCAIR	02
Beilstein Institut, Germany	01
Future Science	01
Others	24

### **List of Selected Research Publications**

S.N.	Title, Authors, Year, Vol (issue) and page nos.	Name of the Journal, (Publisher), ISSN/ ISBN No.	Whether peer reviewed? Impact Factor, if any
1.	A facile synthesis of thiazole-2(3 <i>H</i> )-thiones through [hydroxy(tosyloxy)iodo]-benzene, R. Aggarwal, R. Pundeer, <b>V. Kumar</b> , V. Chaudhari, S. P. Singh, O. Prakash*, <b>2004</b> , 34(14), 2659-2664.	<i>Synthetic Communication (Taylor &amp; Francis)</i> 0039-7911(Print), 1532-2432 (Online)	Yes, 1.1
2.	The structure of the products of condensation of hydroxylamine with trifluoromethyl- $\beta$ -diketones:	<i>Magnetic Resonance in Chemistry (Wiley)</i>	Yes, 1.6

	Assignments of the diastereotopic protons of the 4-methylene group in 5-hydroxy-5-trifluoromethyl- $\Delta^2$ -isoxazolines, D. Sanz*, R. S. Claramunt, S. P. Singh, <b>V. Kumar</b> , R. Aggarwal, J. Elguero, I. Alkorta, <b>2005</b> , 43(12), 1040-1043.	1097-458X	
3.	Synthesis and antibacterial activity of some new 1-heteroaryl-5-amino-4-phenyl-3-trifluoromethyl-pyrazoles, <b>V. Kumar</b> , R. Aggarwal, P. Tyagi, S. P. Singh*, <b>2005</b> , 40(9), 922-927.	<i>European Journal of Medicinal Chemistry (Elsevier)</i> , 0223-5234	Yes, 4.8
4.	Synthesis and antibacterial activity of new 1-heteroaryl-5-amino-3-H/methyl-4-phenylpyrazoles, R. Aggarwal*, <b>V. Kumar</b> , P. Tyagi, S. P. Singh, <b>2006</b> , 14(6), 1785-1791.	<i>Bioorganic and Medicinal Chemistry (Elsevier)</i> , 0968-896	Yes, 2.9
5.	The reaction of hydroxylamine with aryl-trifluoromethyl- $\beta$ -diketones: Synthesis of 5-hydroxy-5-trifluoromethyl- $\Delta^2$ -isoxazolines and their dehydration to 5-trifluoromethylisoxazoles, <b>V. Kumar</b> , R. Aggarwal, S. P. Singh*, <b>2006</b> , 127, 880-888.	<i>Journal of Fluorine Chemistry (Elsevier)</i> 0022-1139	Yes, 2.2
6.	The reaction of aryl and heteroarylhydrazines aryltrifluoromethyl- $\beta$ -diketones, S. P. Singh*, <b>V. Kumar</b> , R. Aggarwal, J. Elguero, <b>2006</b> , 43, 1003-1014	<i>Journal of Heterocyclic Chemistry (Wiley)</i> 1943-5193	Yes, 1.2
7.	Synthesis and NMR spectral studies of new 1-heteroaryl-5-amino-4-cyano-3-alkyl/aryl-pyrazoles, R. Aggarwal*, <b>V. Kumar</b> , S. P. Singh, <b>2006</b> , 45B (6), 1426-1430.	<i>Indian Journal of Chemistry, (NISCAIR)</i> 0975-0983	Yes, 0.5
8.	Synthesis of some new 1-(6-fluorobenzothiazol-2-yl)-3-(4-fluorophenyl)-5-arylpyrazolines and their iodine(III) mediated oxidation to corresponding pyrazoles, R. Aggarwal*, <b>V. Kumar</b> , S. P. Singh, <b>2007</b> , 46B(8), 1332-1336.	<i>Indian Journal of Chemistry (NISCAIR)</i> 0975-0983	Yes, 0.5
9.	Pyrazolo[1,5- <i>a</i> ]pyrimidines. A combined multinuclear magnetic resonance ( $^1\text{H}$ , $^{13}\text{C}$ , $^{15}\text{N}$ , $^{19}\text{F}$ ) and DFT approach to their structural assignment, D. Sanz*, R. M. Claramunt, A. Saini, <b>V. Kumar</b> , R. Aggarwal, S. P. Singh, I. Alkorta, J. Elguero, <b>2007</b> , 45, 513-517.	<i>Magnetic Resonance in Chemistry (Wiley)</i> 1097-458X	Yes, 1.6
10.	A facile and rapid one-pot synthesis of 1,4-diaryl-2-mercaptoimidazoles under solvent-free conditions, R. Aggarwal*, R. Kumar, <b>V. Kumar</b> , <b>2007</b> , 28(6) 617-623.	<i>Journal Sulfur Chemistry (Taylor &amp; Francis)</i> 1741-6000	Yes, 1.0
11.	The reaction of hydrazines and hydroxylamine with trifluoromethyl- $\beta$ -diketones: Synthesis of trifluoromethylpyrazole and isoxazole derivatives (A review), <b>V. Kumar</b> , R. Aggarwal, S. P. Singh*, <b>2008</b> , 75(12), 2893-2929.	<i>Heterocycles (Elsevier)</i> 0385-5414	Yes, 1.0
12.	Synthetic approaches towards 5-aminopyrazoles: A review, R. Aggarwal*, <b>V. Kumar</b> , R. Kumar, S. P. Singh, <b>2011</b> , 7, 179-197.	<i>Beilstein Journal of Organic Chemistry</i> 1860-5397	Yes, 2.8
13.	Iron regulation in tuberculosis research: Promise and Challenges: A Review, A. K. Sharma*, R. Naithani, <b>V. Kumar</b> , S. S. Sandhu, <b>2011</b> , 18, 1723-1731.	<i>Current Medicinal Chemistry (Bentham)</i> 1875-533X	Yes, 4.0
14.	Microwave assisted synthesis of imidazoles: A Review, G. K. Gupta*, N. Rani, <b>V. Kumar</b> ; <b>2012</b> , 9(3), 270-284.	<i>Mini-Reviews in Organic Chemistry (Bentham)</i> 1875-6298	Yes, 1.04
15.	Synthesis of some new 3,5-diamino-4-(4'-fluorophenylazo)-	<i>Medicinal Chemistry</i>	Yes,

	1-aryl/heteroarylpyrazoles as antimicrobial agents, R. Aggarwal*, V. Kumar, G. K. Gupta, <b>V. Kumar</b> ; <b>2013</b> , 22(8), 3566-3573.	<i>Research (Springer)</i> 1554-8120	1.3
16.	4-Fluorophenylhydrazones as potential Cox II inhibitors: A mild, efficient, one pot solid phase synthesis and docking study, <b>V. Kumar*</b> , G. Kumar Gupta, K. Kaur, R. Singh, <b>2013</b> , 22(12), 5890-5900.	<i>Medicinal Chemistry Research (Springer)</i> 1554-8120	Yes, 1.3
17.	Developments in synthesis of the anti-inflammatory drug, Celecoxib: A review, <b>V. Kumar*</b> , K. Kaur, G. K. Gupta, A. K. Gupta, S. Kumar, <b>2013</b> , 7, 124-134.	<i>Recent Patents on Inflammation &amp; Allergy Drug Discovery (Bentham)</i> 2212-2710	Yes, 1.8 Cl
18.	Pyrazole containing natural products: Synthetic preview and biological significance (A Review), <b>V. Kumar*</b> , K. Kaur, G. K. Gupta, A. K. Sharma, <b>2013</b> , 69, 735-753.	<i>European Journal of Medicinal Chemistry (Elsevier)</i> 0223-5234	Yes, 4.8
19.	Synthesis, characterization and antibacterial activity of a novel heterocyclic Schiff's base and its metal complexes of first transition series, R. P. Saini, <b>V. Kumar*</b> , A. K. Gupta, G. K. Gupta, <b>2014</b> , 23(2), 690-698.	<i>Medicinal Chemistry Research, (Springer)</i> 1554-8120	Yes, 1.3
20.	Isolation of 4-hydroxythiazoline: A solid phase study in hantzsch thiazole reaction; G. Kumar Gupta, K. Kaur, S. Singh, <b>V. Kumar*</b> ; <b>2014</b> , vol 18(2), 38-40.	<i>Research Journal of Chemistry and Environment (Scopus and SCI indexed)</i> 09720626	Yes, 0.6
21.	Poly(vinylbenzylsulfonicacid)-grafted poly(ether ether ketone) membranes, M. L. Hwang, J. Choi, H. S. Woo, <b>V. Kumar</b> , J. Y. Sohn, S. Junhwa*, <b>2014</b> , 321, 59-65.	<i>Nuclear Instrumentation of Physics: Method B (Elsevier)</i> 0168-583X	Yes, 1.4
22.	Synthesis, characterization and DNA photocleavage study of a novel dehydroacetic acid based hydrazone Schiff's base and its metal complexes, R. Pal, <b>V. Kumar*</b> , A. K. Gupta, V. Beniwal, <b>2014</b> , 23(7), 3327-3335.	<i>Medicinal Chemistry Research (Springer)</i> 1554-8120	Yes, 1.3
23.	Isoxazoline containing natural products as anticancer agents: A review, K. Kaur, <b>V. Kumar*</b> , G. K. Gupta, A. K. Sharma, <b>2014</b> , 77, 121-133.	<i>European Journal of Medicinal Chemistry (Elsevier)</i> 0223-5234	Yes, 4.8
24.	Synthesis, characterization and DNA photocleavage study of dehydroacetic acid based tridentate Schiff base and its metal complexes of first transition series, R. Pal, <b>V. Kumar*</b> , A. K. Gupta, V. Beniwal, <b>2014</b> , 23, 4060-4069. DOI:10.1007/s00044-014-0986-0.	<i>Medicinal Chemistry Research (Springer)</i> 1554-8120	Yes, 1.3
25.	1, 4-Diaryl-2-mercaptoimidazoles as a novel class of antimicrobial agents: Design, synthesis and computational studies, G. K. Gupta*, V. Saini, R. Khare, <b>V. Kumar</b> , <b>2014</b> , 23, 4209-4220, DOI 10.1007/s00044-014-0994-0.	<i>Medicinal Chemistry Research (Springer)</i> 1554-8120	Yes, 1.3
26.	Synthesis and biological evaluation of some 2-(3,5-dimethyl-1H-pyrazol-1-yl)-1-arylethanones: Antibacterial, DNA photocleavage cleavage, and Anticancer activities, <b>V. Kumar*</b> , K. Kaur, D. N. Karelia, V. Beniwal, G. K. Gupta, A. K. Sharma, A. K. Gupta, <b>2014</b> , 81, 267-276.	<i>European Journal of Medicinal Chemistry (Elsevier)</i> 0223-5234	Yes, 4.8
27.	Design, regioselective synthesis and cytotoxic evaluation of Novel 2-aminoimidazole-quinoline hybrids against cancer and primary endothelial cells, K. Singh, V. Verma, K. Yadav, V. Sreekanth, D. Kumar*, A. Bajaj, <b>V. Kumar</b> , <b>2014</b> , 87, 150-	<i>European Journal of Medicinal Chemistry (Elsevier)</i> 0223-5234	Yes, 4.8

	158.		
28.	Synthesis, antibacterial evaluation and SAR study of some novel 3-Aryl/Heteroaryl-9-methyl-1,2,4-triazolo[4,3- <i>a</i> ]-quinoline derivatives, M. Kumar, <b>V. Kumar*</b> , G. K. Gupta, <b>2015</b> , 24, 1857-1868., DOI:10.1007/s00044-014-1254-z.	<i>Medicinal Chemistry Research (Springer) 1554-8120</i>	Yes, 1.3
29.	Synthesis, docking study and DNA photo cleavage activity of some novel 3-(Quinolin-3-yl)-5,7-dimethyl-1,2,4-triazolo-[4,3- <i>a</i> ]-pyrimidine derivatives, A. Sharma, <b>V. Kumar*</b> , R. Khare, G. K. Gupta, V. Beniwal, <b>2015</b> , 24, 1830-1841, DOI:10.1007/s00044-014-1265-9.	<i>Medicinal Chemistry Research (Springer) 1554-8120</i>	Yes, 1.3
30.	Synthesis of some pyrazolylaldehyde N-isonicotinoyl hydrazones and 2,5-disubstituted 1,3,4-oxadiazoles as DNA photocleaving agents, M. Kumar, <b>V. Kumar*</b> , V. Beniwal, <b>2015</b> , 24(7),2862-2870,doi 10.1007/s00044-015-1340-x.	<i>Medicinal Chemistry Research (Springer) 1554-8120</i>	Yes, 1.3
31.	Biodegradation aspects of carbendazim and sulfosulfuron: Trends, scope and relevance, R. Arya, M. Malhotra, <b>V. Kumar</b> , A. K. Sharma*, <b>2015</b> , Vol 22, Issue 9, 1147-1155.	<i>Current Medicinal Chemistry (Bentham) 1875-533X</i>	Yes, 4.0
32.	Fluorinated Isoxazoline and isoxazoles: A Synthetic Perspective, <b>V. Kumar*</b> and K. Kaur, <b>2015</b> , 180, 55–97.	<i>Journal of Fluorine Chemistry (Elsevier) 0022-1139</i>	Yes, 2.2
33.	Trifluoromethylpyrazoles as anti-inflammatory and antibacterial agents: A review, K. Kaur, <b>V. Kumar*</b> , G. K. Gupta, <b>2015</b> , 178, 306–326.	<i>Journal of Fluorine Chemistry (Elsevier) 0022-1139</i>	Yes, 2.2
34.	Solvent-free synthesis of novel ( <i>E</i> )-2-(3,5-dimethyl-4-(aryldiazenyl)-1H-pyrazol-1-yl)-4-arylthiazoles: determination of their biological activity, K. Kaur, <b>V. Kumar*</b> , V. Beniwal, V. Kumar, K.R Aneja, V. Sharma, S. Jaglan, <b>2015</b> , 24 (11), 3863–3875, DOI 10.1007/s00044-015-1429-2.	<i>Medicinal Chemistry Research (Springer) 1554-8120</i>	Yes, 1.3
35.	Novel ( <i>E</i> )-1-aryl-2-(3,5-dimethyl-4-(aryldiazenyl)-1H-pyrazol-1-yl)ethanones: Solvent free synthesis, antimicrobial, antioxidant and UV mediated DNA damage protective activity studies, K. Kaur, <b>V. Kumar*</b> , V. Beniwal, V. Kumar, K.R Aneja, V. Sharma, S. Jaglan, <b>2015</b> , 24 (12), 4023–4036. DOI 10.1007/s00044-015-1452-3.	<i>Medicinal Chemistry Research (Springer) 1554-8120</i>	Yes, 1.3
36.	Synthesis of some novel oxazolidinone-thiazole hybrids as potential antimicrobial, antioxidant and UV mediated DNA damage protecting agents, K. Kaur, <b>V. Kumar*</b> , V. Beniwal, V. Kumar, K.R Aneja, V. Sharma, S. Jaglan, <b>2016</b> , 25, 2237–2249. DOI: 10.1007/s00044-016-1663-2.	<i>Medicinal Chemistry Research (Springer) 1554-8120</i>	1.3
37.	Antibacterial, Tyrosinase and DNA Photocleavage Studies of Some TriazolylNucleosides, S.Kumar, Sukhvinder, <b>V. Kumar</b> , G. K. Gupta, V. Beniwal, F. Abdmouleh, E.Ketata and M. E. Arbi, <b>2017</b> , 36:8, 543-551.	<i>Nucleosides, Nucleotides and Nucleic Acids (Taylor &amp; Francis) 1525-7770</i>	Yes 0.9
38.	(Diacetoxyiodo)Benzene Mediated Fused 1,2,4-Triazole Derivatives: Synthetic and Medicinal Perspective, <b>V. Kumar*</b> , M. Kumar, S. Kumar <b>2018</b> , DOI : 10.2174/1570193X15666180406142116	<i>Mini-Review in Organic Chemistry (Bentham) 1875-6298</i>	Yes, 0.7
39.	Design, synthesis, DFT, docking studies and ADME prediction of some new coumarinyl linked pyrazolylthiazoles: Potential standalone or adjuvant antimicrobial agents ,Sunil Kumar, Vikram Saini, Indresh K.	<i>PLoS ONE 1932-6203</i>	Yes 3

	Maurya, Jayant Sindhu, Mukesh Kumari, Ramesh Kataria*, <b>Vinod Kumar*</b> , <b>2018</b> , 13(4): e0196016. <a href="https://doi.org/10.1371/journal.pone.0196016">https://doi.org/10.1371/journal.pone.0196016</a>		
40.	Phenols and Polyphenols: Promise and Peril to Human Health, <b>V. Kumar*</b> and V. Kumar, <b>2018</b> , 18 (15), 1242-1243. DOI: <a href="https://doi.org/10.2174/138955751815180808124616">10.2174/138955751815180808124616</a>	<i>Mini-Reviews in Medicinal Chemistry (Bentham)</i> 1875-5607	Yes, 2.9
41.	Cinnamaldehyde regulates H <sub>2</sub> O <sub>2</sub> -induced skeletal muscle atrophy by ameliorating the proteolytic and antioxidant defense systems, N. Kaur, P. Gupta, V. Saini, S. Sherawat, S. Gupta, A. Dua, <b>V. Kumar</b> , E. Injeti and A. Mittal, <b>2018</b> , DOI: <a href="https://doi.org/10.1002/jcp.27348">10.1002/jcp.27348</a> .	<i>Journal of Cellular Physiology, Wiley</i> 1097-4652	Yes, 3.9

### CONFERENCES/SEMINARS/WORKSHOPS (40)

#### PAPER PRESENTED

1. R. Aggarwal, **V. Kumar**, S. P. Singh; Synthesis and spectral studies of some 5-amino-1-heteroarylpyrazoles, Proceedings of 40<sup>th</sup> Annual Convention of Chemists organized by Indian Chemical Society, at Jhansi from December 23-27, **2003 (poster presentation)**.
2. R. Aggarwal, **V. Kumar**, S. P. Singh; A facile synthesis of 3-phenyl-4-arylthiazole-2(3H)-thiones using [hydroxy(tosyloxy)iodo]benzene, Proceedings of 91<sup>st</sup> Indian Science Congress organized by The Indian Science Congress Association, at Chandigarh from January 3-7, **2004 (poster presentation)**.IN
3. **V. Kumar**, S. P. Singh, R. Aggarwal; Synthesis of 3(5)-trifluoromethylpyrazoles: Effect of substituents on aryltrifluoromethyl- $\beta$ -diketones & hydrazines and reaction conditions, Proceedings of *Recent Trends in Chemistry*, at Kurukshetra University, Kurukshetra from October 6-7, **2006 (Oral presentation)**.
4. **V. Kumar**, Synthesis and NMR (<sup>1</sup>H, <sup>13</sup>C & <sup>19</sup>F) spectral studies of some azole derivatives, Proceedings of 94<sup>th</sup> Indian Science Congress organized by the Indian Science Congress Association, at Annamalai University, Tamil Nadu from January 3-7, **2007 (Oral presentation)**. IN
5. **V. Kumar**, G. Kumar; A rapid, mild and high yielding solid phase synthesis of some disubstituted thiazoles, Proceedings of UGC sponsored National Seminar on "Chemistry in Our Lives" organized by S. D. College (Lahore) at Ambala Cantt, Haryana held on March 23, **2011 (poster presentation)**.
6. **V. Kumar**, K. Kaur; Solid phase synthesis of some N-phenacylpyrazoles, 7<sup>th</sup> National Conference on Recent Advances in Chemical, Biological & Environmental Sciences (RACES-2015), organized by Multani Mal Modi College, Patiala-Punjab held on January 30-31, **2015 (poster presentation)**.
7. **V. Kumar**, K. Kaur A Highly Regioselective Protocol For The Synthesis of N-Phenacylpyrazoles: Solid Phase Approach, A National Seminar on Recent Advancements and Chemical Developments in Chemical Sciences sponsored by CDC P.U. Chandigarh, organized by Chemical Society PG Department of Chemistry and International Quality Assurance Cell, DAV College, Abohar, Punjab held on February 09, **2015 (poster presentation)**.
8. **V. Kumar**, M. Kumar; Solid phase synthesis of some 2,5-Disubstituted-1,3,4-Oxadiazoles, 8<sup>th</sup> National Seminar on " New Paradigm in Chemical Sciences: Synthesis and Analytical Perspective-2016 (NPICS:SAP-2016)", organized by Department of Chemistry, Punjabi University, Patiala-Punjab held on Feb. 4-5, **2016 (poster presentation)**.
9. **V. Kumar**, K. Singh, D. Kumar, M. Kinger; Synthesis of Some Novel N-aryl-2-mecrcaptoimidazoles as Potential Antimicrobial Agents, one day National Seminar on "Chemistry of Industrial Globalization, Environmental Pollution and its Chem-Biological Significance", sponsored by Director, Higher Education,

Haryana, organized by Department of Chemistry, Govt. P.G. College, Ambala, Haryana, held on Feb. 11, **2016 (poster presentation)**.

10. **V. Kumar**, K. Kaur, V. Sharma, S. Jaglan; (*E*)-4-(Aryldiazenyl)-3-aryl-5-(trifluoromethyl)-4,5-dihydroisoxazol-5-ols as an efficient class of antioxidant agents, *National Conference on "Organic Synthesis and Catalysis (NCOSC-2016)*, organized by Department of Chemistry G.J.U. S.&T, Hisar, Haryana held on Feb. 17-18, **2016 (poster presentation)**.
11. **V. Kumar**, K. Kumar, M. Kinger; Synthesis and NMR Spectral Characteristics of Some Novel 2-(Pyrazol-1-yl)-ethanols, *National Conference on "Recent Advances in Chemical Sciences (RACS-2016)*, sponsored by Director, Higher Education, Haryana, organized by Department of Chemistry, S.D.P.G. College, Panipat, Haryana held on March 30-31, **2016 (poster presentation)**.
12. **V. Kumar**; 2-(3,5-Dimethyl-1H-pyrazol-1-yl)-1-arylethanones as Potential Anticancer Agents, *National Conference on "Recent Advances in Chemical Sciences (NCRACS-2016)* organized by Department of Chemistry, M. M. University, Mullana-Ambala-133207, Haryana held on Nov. 11-12, **2016 (poster presentation)**.
13. V. Kumar, Chemistry of Azoles: Synthesis, NMR spectral studies and biological evaluation of some azole derivatives, *104<sup>th</sup> Indian Science Congress* at S.V. University, Tirupati from January 3-7, 2017 (**Oral presentation**).IN

#### **PARTICIPATED**

1. Participated in National Seminar on "*Recent Trends in Herbal Drug Research*" organized by M.M.College of Pharmacy, M.M.University, Mullana, Haryana in collaboration with Society of Pharmacogony, on October 20-21, **2011**.
2. Participated in the 2<sup>nd</sup> International Conference on "*Recent Advances in Chemistry and their Impact on Environment*" sponsored by Director General, Higher Education, Haryana and DST, New Delhi, organized by Department of Chemistry, Arya P. G. College, Panipat-Haryana held on February 4-5, **2012. IN**
3. Attended National Seminar on "*Future Trends in Upcoming Pharma Sector*" sponsored by AICTE, organized by Himalayan Institute of Pharmacy, Kala-Amb, Sirmour (H.P.) held on March 17, **2012**.
4. Attended National conference on "*Global Challenges New Frontiers in Chemical Sciences*" sponsored by UGC, organized by Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana held on September 22-23, **2012**.
5. Attended National Conference on "*Future Focus on Achieving Excellence in Pharmacy Education and Research*" organized by Ganpati Institute of Pharmacy, Bilaspur, Yamuna Nagar, Haryana held on February 16, **2013**.
6. Attended one day seminar on "*AAS Instrumentation and Unique Patented Technologies*" (Academia-Industry Interaction) jointly organized by Perkin Elmer and M.M.College of Pharmacy, M. M. University, Mullana-Ambala-133207, Haryana held on April 3, **2013**.
7. Attended one day seminar on "*Recent Advances in Liquid Chromatography*" (Academia-Industry Interaction Cell) organized by M.M.College of Pharmacy, M. M. University, Mullana-Ambala-133207, Haryana held on Jan. 31, **2014**.
8. Attended two days symposium "*Professor Ram Chand Paul National Symposium on New Visions in Chemical Sciences*" organized by Department of Chemistry, Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh, held on Feb 15-16, **2014**; and out of **85** posters, in the same symposium a poster (PP-25) on our research findings on H. Thiazole reaction has been selected for **Best Poster Presentation Award**, which was presented to my research student (Ms Kamalneet Kaur).
9. Attended one day seminar on "*Answering the Obesity Epidemic: Challenges & Opportunities*" organized by M.M.College of Pharmacy, M. M. University, Mullana-Ambala-133207, Haryana held on March 04, **2014**.
10. Attended one day National Seminar on "*Safety in Chemistry Laboratory*" organized by Department of Chemistry, M.M.University, Mullana, Haryana held on November 12, **2014**.



11. Attended 1<sup>st</sup> International Virtual Conference on “Information Retrieval on Scientific Literature: Emergence Frontiers and Challenges (IRSL2014)” organized by Central Library, M.M.University, Mullana, Haryana held on June 10-11, **2014. IN**

#### **WORKSHOPS**

1. Attended a five days (one week) Workshop on “Molecular Modeling and Pharmainformatics” organized by *National Institute of Pharmaceutical Education and Research (NIPER), Sector 67, S.A.S., Punjab, India*, held on November 1-5, **2004**.
2. Attended National Workshop on “*Spectroscopic Techniques and Their Applications*” organized by Department of Chemistry, M.M.University, Mullana, Haryana held on November 12, **2011**.
3. Attended one day workshop on “*Analytical Techniques for Research in Pharmacy*” organized by M.M.College of Pharmacy, M.M.University, Mullana, Haryana, held on December 7, **2012**.
4. Attended three days **INDO-GERMAN BILATERAL WORKSHOP** on *Surfactants and Amphiphilic Polymers in Nanotechnology-On the way to smarter formulations* organized by Department of Chemistry, Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh, held on March 20-22, **2014. IN**
5. Attended one day workshop on “*Mendeleev Reference Manager*” organized by Department of Chemistry, M.M.University, Mullana, Haryana, held on Feb. 6, **2016**.
6. Attended one day workshop on “*Advances in Computer Aided Drug Design & Discovery*”, using VLife’s leading-edge software, jointly organised by Department of Chemistry and M. M. College of Pharmacy, M.M.University, Mullana, Haryana, held on August 01, **2016**.
7. Attended two-week Faculty development Programme on “*Business start-up and social entrepreneurship*”, Sponsored by National Science & Technology Entrepreneurship Development Board, DST, Govt. of India and conducted by Entrepreneurship Development & Industrial Coordination Department, NITTTR, Chandigarh at M.M.E.C., MMU, Mullana on Sept 19-30, **2016**.
8. Attended one week workshop on “*Greener Strategies for Organics and Nanomaterials*” sponsored by GIAN-MHRD, Govt. of India, organized by Department of Chemistry, GJUS&T, Haryana, held on Nov 25-29, **2016**.
9. Attended one-week Faculty development Programme on “*Research Methodology*”, conducted by Education and Educational Management Department, NITTTR, Chandigarh at M.M.E.C., MMU, Mullana on Jan 9-13, **2017**

#### **ABSTRACTS**

1. G. Kumar Gupta, V. Saini, R. Khare, **V. Kumar**, N. Rani; 1,4-Diaryl-2-mercaptoimidazoles derivatives as a novel class of antimicrobial agents: Design, synthesis, and computational studies, *II International on Antimicrobial Research*, 21-23, November **2012**, Lisbon, Portugal.
2. K. Kaur, G. K. Gupta, **V. Kumar**; A mild approach to 2, 4-disubstituted thiazoles: A solid phase study in hantzsch thiazole synthesis (PP-13), *A national Conference on Recent Advances in Chemical & Environmental Sciences*, organized by P. G. Department of Chemistry, Multani Mal Modi College, Patiala-Punjab held on January 31, **2013**.
3. **V. Kumar**, K. Kaur, A. K. Gupta, A mild, greener and a solvent-free synthesis of 4-Aryl-2-(4-arylo-3,5-dimethylpyrazol-1-yl)thiazoles, *An International Conference on Recent Advances in Chemical Sciences* sponsored by DST, organized by Department of Chemistry, Arya P. G. College, Panipat-Haryana on February 24-26, **2013**.
4. R. Saini, **V. Kumar**, A. K. Gupta, G. K. Gupta, Synthesis and antibacterial evaluation of a novel heterocyclic Schiff’s base and its metal complexes of first transition series, *An International Conference on Recent Advances in Chemical Sciences* sponsored by DST, organized by Department of Chemistry, Arya P. G. College, Panipat-Haryana held on February 24-26, **2013**.
5. M. Kumar, R. Khare, **V. Kumar**, A. K. Gupta, G. K. Gupta, Synthesis, antibacterial evaluation, and QSAR study of some novel 1-aryl/hetryl-5-methyl-1,2,4-triazolo[4,3-a]quinoline derivatives, *An International*

- Conference on Recent Advances in Chemical Sciences* sponsored by DST, organized by Department of Chemistry, Arya P. G. College, Panipat-Haryana held on February 24-26, **2013**.
6. S. Kumar, M. Kumar, **V. Kumar**; Solid Phase Diacetoxyiodobenzene Mediated Synthesis of Some 2, 5-Disubstituted-1,3,4-Oxadiazoles, *7<sup>th</sup> National Conference on Recent Advances in Chemical, Biological & Environmental Sciences (RACES-2015)*, organized Multani Mal Modi College, Patiala-Punjab held on January 30-31, **2015**.
  7. K. Kaur, **V. Kumar**, V. Meashi; Synthesis and Antimicrobial Evaluation of Some Novel 2-(pyrazol-1-yl)ethanols, *7<sup>th</sup> National Conference on Recent Advances in Chemical, Biological & Environmental Sciences (RACES-2015)*, organized Multani Mal Modi College, Patiala-Punjab held on January 30-31, **2015**.
  8. K. Singh, **V. Kumar**, M. Rani, D. Kumar; Synthesis and antimicrobial evaluation of Some Novel *N*-aryl-2-mecrcaptoimidazoles, *7<sup>th</sup> National Conference on Recent Advances in Chemical, Biological & Environmental Sciences (RACES-2015)*, organized Multani Mal Modi College, Patiala-Punjab held on January 30-31, **2015**.
  9. S. Kumar, **V. Kumar**, Synthesis of Some 2, 5-Disubstituted-1,3,4-Oxadiazoles: A Solid Phase Approach, *A National Seminar on Recent Advancements and Chemical Developments in Chemical Sciences* sponsored by CDC P.U. Chandigarh, organized by Chemical Society PG Department of Chemistry and International Quality Assurance Cell, DAV College, Abohar, Punjab held on February 09, **2015**.
  10. K. Singh, **V. Kumar**, M. Rani, D. Kumar, Novel *N*-aryl-2-mecrcaptoimidazoles: Synthesis and antimicrobial evaluation, *A National Seminar on Recent Advancements and Chemical Developments in Chemical Sciences* sponsored by CDC P.U. Chandigarh, organized by Chemical Society, PG Department of Chemistry and International Quality Assurance Cell, DAV College, Abohar, Punjab held on February 09, **2015**.
  11. **V. Kumar**, K. Kaur, M. Kinger; Synthesis of 4-(Aryldiazenyl)-3-aryl-5-(trifluoromethyl)-4,5-dihydroisoxazol-5-ols, *8<sup>th</sup> National Seminar on "New Paradigm in Chemical Sciences: Synthesis and Analytical Perspective-2016 (NPICS:SAP-2016)*, organized Department of Chemistry, Punjabi University, Patiala-Punjab held on Feb. 4-5, **2016**.
  12. M. Kinger, S. Kumar, **V. Kumar**; Synthesis of some 3-cinnamoyl-5-arylpyrazoles, *National Conference on "Organic Synthesis and Catalysis (NCOSC-2016)*, organized Department of Chemistry G.J.U. S.&T, Hisar, Haryana held on Feb. 17-18, **2016**.
  13. M. Kinger, S. Kumar, **V. Kumar**; A Review on some important polyphenols, *National Conference on "Recent Advances in Chemical Sciences (RACS-2016)*, sponsored by Director, Higher Education, Haryana, organized by Department of Chemistry, S.D.P.G. College, Panipat, Haryana held on March 30-31, **2016**.

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The information given above is true to the best of my knowledge.

( Dr. Vinod Kumar)

Dated: