

Faculty Profile



DR. VAIJINATH A. VERMA M.Sc., M. Phil., B.Ed., Ph. D.

Assistant Professor & HOD
Department of Chemistry,
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Educational Qualifications

Under Graduation

1999 - B. Sc. Gulbarga University, Gulbarga.

2001 - B. Ed. Karnataka University, Dharwad.

Post-Graduation

2006 - M. Sc. (**Organic Chemistry**) Gulbarga University, Gulbarga.

2008 - M. Phil. Gulbarga University, Gulbarga

Title: **2D QSAR study of some antidiabetic agents.**

Doctoral Details

2014- Ph. D. Gulbarga University, Gulbarga.



RECEIVED PHD FOR WORK ON "**STUDIES ON THE SYNTHESIS OF HETEROCYCLIC COMPOUNDS OF BIOLOGICAL INTEREST**" UNDER DR.ANAND R. SAUNDANE FROM GULBARGA UNIVERSITY, GULBARGA: AWARDED ON **2014**.

Professional Experience

1. Guest Lecturer, Department of Chemistry, Gulbarga University, Gulbarga from 21-01-2008 to 31-12-**2009**.
2. Assistant Professor, A. V. Patil Degree College, Aland, Kalaburagi, from 02 -04-2010 to 22-09-**2011**.
3. Assistant Professor, S. P. Arts, Science and J. M. Bohra Commerce Degree College, Shorapur, Yadagiri from 23-09 -2011 to 05-07- **2017**.
4. Assistant Professor, S.S. Margol of College Arts, Science and Commerce Shahabad, Dist: Kalaburagi, from 06-07-**2017** to till to date.

Administrative Experience

1. HOD, Department of chemistry from **01.08.2011** to till date.
2. Served as a coordinator and member in various committees (IQAC, NAAC, Sports, cultural, Admission, General-UGC, Entry in service).

Refresher/Orientation Courses attended

1. *65th Orientation Course* organized by UGC-Academic Staff College, University of Hyderabad, Hyderabad during from 20.06.2010 to 16.07.**2010**.
2. Refresher Course on *Recent Trends in chemical Sciences* organized by the Department of Chemistry, H.R.D.C (UGC-Academic Staff College), University of Hyderabad, Hyderabad during 13th July to 02nd August **2016**.
3. Refresher Course on *Degree College Teacher Training Program in Chemistry* organized by Indian Institute of Science Challakere campus at Kudapura Chitradurga, Karnataka during 22nd November to 12th December **2018**

Attended Teacher trainings

1. Teacher empowerment training for Assistant Professors organized by Department of Collegiate Education, Government of Karnataka At Gulbarga University, Gulbarga during 16th -22nd October **2011**.
2. Degree College Teachers Training Program in Chemistry organized Center of Excellence in Science and Mathematics education, Indian Institute of Science, Challakere Campus at Kudapura Chitradurga, Karnataka during 22nd November to 12th December **2018**.

Courses Taught

UG-Physical chemistry, inorganic chemistry and organic chemistry.

Research Project Completed

1. One UGC sponsored Minor Research Project on "Synthesis and biological evaluation of some novel indolyl-pyrimidine derivatives" Project cost Rs. 185000.00 (approved) Rs.182214.00 (utilized) was completed on 28-Mar-**2015**.

Research Projects Communicated

1. Studies on the synthesis of indoloisoquinoline, pyridine analogues of biological interest under assistance for development of state s &t councils programme of DST (GOI) Delhi, dated **24-05-2018**. Estimated amount **Rs. 21.5 lakhs**.

2. Synthesis, Spectral characterization and biological assay of novel indoloisoquinoline and pyridine moieties. Under K-FIST L1 Programme to V.G.S.T Bangalore dated **26.09.2018**. Estimated amount **Rs.19.5 lakhs**.

Journal Publications

1. Synthesis of Schiff Base Indolyl-1, 3, 4- Oxadiazole, Thiazolidinone and Azetidinone as Efficient Antimicrobial, Antioxidant, Anti-Tuberculosis and Anticancer Agents. **Vaijinath A. Verma**, Anand R. Saundane and Rajkumar S. Meti. *Asian Journal of Organic & Medicinal Chemistry*, 4(2): **2019**, doi.org/10.14233 [ISSN:2458-893]. **IF:--**
2. Synthesis of some novel 5-(8-substituted-11H-indolo[3,2-c]isoquinolin-5-ylthio)-1',3',4'-oxadiazol-2-amines bearing thiazolidinones and azetidinones as potential antimicrobial, antioxidant, anti-tuberculosis and anticancer agents. **Vaijinath A. Verma**, Anand R. Saundane, *Polycyclic Aromatic Compounds*, 2019 /doi.org/ 10.1080/ 10406638. **2019**. 1628782 [ISSN:1563-5333] **IF: 2.0**.
3. Synthesis, antimicrobial and antioxidant studies of some newly indolo[3,2-c]isoquinoline derivatives. **Vaijinath A. Verma**, *Russian journal of General Chemistry*, 88(10): 628-2645, **2018**. [ISSN: 1608-3350] **IF: 0.658**.
4. Synthesis and biological evaluation of some novel pyrido[2,3-d]pyrimidine derivatives as antimicrobial and antioxidant agents. **Vaijinath A. Verma** and Rajkumar S. Meti. *International Journal of Chemical and Pharmaceutical Sciences* 7(3): 39-49, **2016**. [ISSN: 0976-9390] **IF: 0.684**.
5. Synthesis and biological evaluation of some novel indolyl-pyrimidine derivatives. **Vaijinath A. Verma**, *International Journal of Recent Scientific Research*, 6(3): 3120-3124, **2015**. [ISSN: 0976-3031] **SJIF: 6.86**.
6. Synthesis, antimicrobial and antioxidant activities of some new 5, 6-diamino-1, 3-dimethylpyrimidine-2, 4(1H, 3H)-dione derivatives. **Vaijinath A. Verma**, *World Journal of Pharmacy and Pharmaceutical Sciences*, 4(1): 1258-1268, **2014**. [ISSN: 2278-4357], **SJIF:7.421**.
7. Understanding the antiperglycemic agents of thiazolidinediones analogues using Quantitative Structure Activities Relationship (QSAR) models. **Vaijinath A. Verma**, *World Journal of Pharmacy and Pharmaceutical Sciences*, 3(3), 2212-2221, **2014**. [ISSN: 2278-4357], **SJIF: 7.421**.
8. Synthesis and biological activities of some new annulated Pyrazolopyranopyrimidines and their derivatives Containing Indole Nucleus. Anand R. Saundane, Prabhaker Walmik, Manjunatha Yarlakatti, Vijaykumar Katkar, and **Vaijinath A. Verma**, *Journal of Heterocyclic Chemistry*, 51(2): 303-314, **2014**. [ISSN: 1943-5193] **IF: 0.962**.
9. Synthesis, antimicrobial and antioxidant activities of some new 5-(2-methyl-1H-indol-3-yl)-1,3,4-oxadiazol-2-amine derivatives. Anand R. Saundane, Vijaykumar Tukaram Katkar

and [Vaijinath A. Verma](#) *Journal of Chemistry*, ID718937, 9 [http:// dx.doi. org/ 10.1155/2013/718937](http://dx.doi.org/10.1155/2013/718937), **2013. IF: 1.726.**

10. Synthesis, antimicrobial and antioxidant activities of N-[(5'-substituted 2'-phenyl-1H-indol-3'-yl)methylene]-5Hdibenzo[b,f]azepine-5-carbohydrazide derivatives. Anand R. Saundane, Vijaykumar Tukaram Katkar and [Vaijinath A. Verma](#). *Journal of Chemistry*, ID 530135, 9, <http://dx.doi.org/10.1155/2013/530135>, **2013. IF: 1.726.**
11. Synthesis, antimicrobial and antioxidant activities of some new 5-(2-methyl-1H-indol-3-yl)-1, 3, 4-oxadiazol-2-amine derivatives. Saundane Anand R, [Vaijinath A. Verma](#) and Katkar Vijaykumar. *Journal of Chemistry*, ID 148412, 9 <http://dx.doi.org/10.1155/2013/148412>, **2013. IF: 1.726.**
12. Synthesis of novel 2-amino-4-(5'-substituted 2'-phenyl- 1H-indol-3'-yl)-6-aryl-4H-pyran-3-carbonitrile derivatives as antimicrobial and antioxidant agents. Saundane A R, Katkar Vijaykumar, [Vaijinath A. Verma](#). *Bioorganic & Medicinal Chemistry Letters*. 23: 1978–1984, **2013**. [ISSN: 0960-894X (Print)] **IF: 2.539.**
13. Synthesis of some new indolo[2,3-c]isoquinoliny pyrazole,-1,3,4oxadiazoles and their biological activities. Saundane A R, [Vaijinath A. Verma](#) and Katkar Vijaykumar. *Medicinal Chemistry Research*, 22:3787-3793, **2013**. [ISSN: 1054-2523 (Print)]. **IF: 1.058.**
14. Synthesis of some new indolo[2,3-c]isoquinoliny pyrazole,-1,3,4oxadiazoles and their biological activities. Saundane A R, [Vaijinath A. Verma](#) and Katkar Vijaykumar. *Medicinal Chemistry Research*, 22:3787-3793, **2013**. [ISSN: 1054-2523 (Print)]. **IF: 1.058.**
15. Synthesis and Antioxidant and Antimicrobial Activities of N-[(5'-Substituted 2'-phenyl-1H-indol-3-yl)methylene]-5-(pyridin-4-yl)-1,3,4-oxadiazol-2-amines. Saundane A R, Katkar Vijaykumar, [Vaijinath A. Verma](#). *Journal of Chemistry*, Article ID 718937, 9, <http://dx.doi.org/10.1155/2013/718937>, **2013. IF: 1.726.**
16. Synthesis, antimicrobial and antioxidant activities of indolyl-pyridopyrimidine, pyrazolopyridinemoities. Saundane A R, Katkar Vijaykumar, [Vaijinath A. Verma](#) and PrabhakarWalmik. *Medicinal Chemistry Research*, 22:806-817, **2013**. [ISSN: 1054-2523 (Print)] **IF: 1.058.**
17. Synthesis , antimicrobial and antioxidant activities of some new 1'-10-substituted 5H, 6H, 7H,-indolo[2,3-c]isoquinolin-5ylthio)formyl-3', 5'-disubstituted pyrazoles,-3'-methyl pyrazol-5'-one and- 1',3',4'oxidiazol-2'-thiones. Saundane A R, [Vaijinath A. Varma](#) and Vijaykumar Katkar. *Heterocyclic Lett* 2(3): 333-348, **2012**. [ISSN: 2231-3087 (Print) **IF: --**
18. Synthesis and biological activities of some-5-substituted 2-phenyl-3-(6-aryl-3-cyano-2-substituted-pyridine-4-yl)indoles. Saundane A R, Vijaykumar Katkar Yarlakatti Manjunath, [Vaijinath A. Varma](#) and Prabhaker Walmik. *Indian J Heterocyclic Chem*, 20: 321-324, **2011**. [ISSN: 0971-1627 (Print)]. **IF: 0.342.**
19. Synthesis and biological activities of some indole analogous containing pyridine, pyridopyrimidine and pyranonaphthyridine system. Saundane A R, Vijaykumar Katkar,

Yaralakatti Manjunath, Prabhaker Walmik and [Vaijinath A. Varma](#). *Heterocyclic Lett* 1(4): 339-350, **2011**. [ISSN: 2231-3087 (Print)]. **IF:--**

Research paper communicated

1. Synthesis and biological evaluation of some novel Schiff base indolyl-pyridine-bridged analogues, [Vaijinath A. Verma](#) synthetic communications (**communicated**) **june-2019**.

Papers Presented in Research Symposia/Conferences

1. Synthesis and biological evaluation of efficient antimicrobial, antioxidant, anti-tuberculosis and anticancer assays of carbonitrile derivatives, [Vaijinath A. Verma](#) Anand R. Saundane and Raju Shamrao A **National Conference** On “New Horizon in Biological Sciences for Human Welfare” Organized By Gulbarga University, Kalaburagi-585105, Karnataka, India, from 29th and 30th March, **2019**. DDSB-03, page no. 20.
2. Elicitation of protease inhibitors in chickpea cultivar ICCV-10 genotype by salicylic acid and Spermine, Raju Shamrao and [Vaijinath A. Verma](#). A **National Conference** On “New Horizon in Biological Sciences for Human Welfare” Organized By Gulbarga University, Kalaburagi-585105, Karnataka, India, from 29th and 30th March, **2019**, PAB-02, Page no. 01.
3. Green synthesis and Charactering of silver and gold nanoparticles using seed extract of vernonia anthelmintica and evaluation of its antimicrobial activity [Vaijinath A. Verma](#) and Rajkumar S. Meti, presented in **International conference** on Global environmental challenges human health and sustainable development **JNU, New Delhi** from 11th -13th January **2019**, Sl.No-227, page-227.
4. Synthesis of 6-(4-substitutedphenyl)-4-(5-substituted-2-phenyl-1hindo-3-yl)-1, 2-dihydro-2-oxopyridine-3-carbonitrile analogous and their antimycobacterial, antioxidant and anticancer activity against tumor cell lines, [Vaijinath A. Verma](#) and Rajkumar S. Meti, presented in **International conference of 39th Annual Conference of Indian Association of Biomedical Scientists (IABMS)**current concepts on the role of Indian medicine and Phytoceuticals in Maintenance of Health” Organized by PG Centre, Mangalore University at Jnana Kaveri, ChikkaAluvara Kodagu, Karnataka, India from 15th -17th Novembr **2018**, PP-21, page-103.
5. Synthesis, antimicrobial and antioxidant activities of new indole analogues containing triazolopyrimidine system Anand R. Saundane, Annapurana Halu, Kirankumar N.M and [Vaijinath A. Verma](#), presented in Indian council of chemists in the 32nd annual conference organized by Department of studies in chemistry, Karnatak Unversity Dharwad during November 28th-30th **2013**. Poster OP-22, Page-163.
6. Synthesis, antimicrobial and antioxidant activities of some new 5-(2-methyl-1H-indol-3-yl)-1,3,4-oxadiazol-2-amine derivatives Anand R. Saundane, [Vaijinath A. Verma](#), VijaykumarKatkar, presented in Chemical Science section in the 100th Indian Science

Congress, 2013, Organized by University Calcutta, Kolkatta, West Bengal during December 01st -07th , **2013**. Poster 198, page-224.

7. Synthesis, antioxidant and antimicrobial, activities of N-[(5'-substituted 2'-phenyl 1H-indol-3'-yl)methylene]-5-(pyridin-4-yl)-1,3,4-oxadiazol-2-amines, Anand R. Saundane, Vijaykumar Katkar, **Vaijinath A. Verma**, presented in Chemical Science section in the 100th Indian Science Congress, 2013, Organized by University Calcutta, Kolkatta, West Bengal during December 01st -07th , **2013**. Poster 199, page-225.
8. Synthesis, antioxidant and antimicrobial activities of indolyl pyrazoles. A. R. Saundane, Yarlakatti Manjunatha, Prabhaker Walmik, Katkar Vijaykumar and **Vaijinath A. Verma**. Presented in the 99th Indian Science Congress (Chemical Science section), 2012, held at KIIT University, Bhubaneswar, during 03rd - 07th , January, **2012**. Poster No-31, Page-No. 67.
9. Synthesis and antimicrobial activity of some 5-substituted 2-phenyl-3-(6-aryl-3-cyano-2-substituted pyridin-4-yl)indoles and their derivatives. Saundane Anand R, Katkar Vijaykumar, Yarlakatti Manjunatha, **Vaijinath A. Verma**, Prabhaker Walmik and Miss. Kalpana R. Presented in the 98th Indian Science Congress-2011(Chemical Science section) held at SRM University, during January 3rd -7th , **2011**.
10. Synthesis of 6-[5-(2', 5'-disubstituted-1H-indol-3'-yl)-4-oxo-2-thioxo-1,2,3,4-tetrahydro pyrimidine-5-carbonitrile and their derivative and antimicrobial and antioxidant activities. Saundane Anand R, Yarlakatti Manjunatha, Katkar Vijaykumar, Prabhaker Walmik, **Vaijinath A. Verma** and Miss. Kalpana R. Presented in the 47th Annual Convention of Chemists 2010 and International Conference on Recent Advances in Chemical Sciences held at Pandit Ravishankar Shukla University, Raipur during December 23rd -27th , **2010**, Abstr. No. OP-25.
11. Synthesis of 2-oxo-6-phenyl-2-yl-4-(2',5'-distubstituted 1H-indol-3'-yl)-1,2-dihydropyrimidine-3-carbonitrile and their derivative and antimicrobial and antioxidant activities. Saundane Anand R, Yarlakatti Manjunatha, Vijaykumar, Katkar Prabhaker Walmik, **Vaijinath A. Verma** and Miss. Kalpana R. Presentated in the 47th Annual Convention of Chemists 2010 and International Conference on Recent Advances in Chemical Sciences held at Pandit Ravishankar Shukla University, Raipur during December 23rd -27th , **2010**, Abstr. No. OP-25.
12. Synthesis of some indole analogues containing Napthyridines and Pyrimidonaphthyridines and their antimicrobial and antioxidant activities. Saundane Anand R, Prabhaker Walmik, Yarlakatti Manjunatha, Katkar Vijaykumar, **Vaijinath A. Verma** and Miss. Kalpana R. Presented in the 29th Annual Conference of the Indian Council of Chemists held at Punjab University, Chandigarh during December 19th -21st , **2010**.
13. Synthesis and Biological evaluation of some new 1-(10-substituted 5H,6H,7H-indolo[2,3-c]Isoquinolin-5-yl thio)formyl, -3,5-disubstituted pyrazoles, -3-methylpyrazol-5-ones and -1,3,4-oxadiazol-2-thiones. Saundane Anand R, **Vaijinath A. Verma**, Prabhaker Walmik, Yarlakatti Manjunatha, Katkar Vijaykumar, and Miss. Bharathi Halu. Presented in the 29th Annual Conference of the Indian Council of Chemists held at Punjab University, Chandigarh during December 19th - 21st, **2010**. Abstr. No. OP-26.

14. Synthesis of Some New Indole Naptheridine-3-carbonitrile derivatives with their expected biological activity. Vijaykumar Katkar, Prabhaker Walmik, [Vaijinath A. Varma](#), Yarlakatti Manjunatha And Saundane Anand R. Presented in the International Conference on Current 11 Trends in Chemistry and Biochemistry to be held at Department of Chemistry, Central College Campus, Bengaluru University, Bengaluru, Karnataka during December 18th -19th , **2009**. Abstr No. Poster 127, page No. 139.
15. Synthesis and antimicrobial activities of 6-amino-1-isonicotinoyl-4-(2',5'-disubstituted-1Hindol-3'-yl)-1,4-dihydropyrano[2,3-C]pyrazole-5-carbonitrile and their derivatives, Yarlakatti Manjunatha, Prabhaker Walmik, [Vaijanath A. Varma](#), Vijaykumar Katkar and Saundane Anand R. Presented in the International Conference on Current Trends in Chemistry and Biochemistry to be held at Department of Chemistry, Central College Campus, Bengaluru University, Bengaluru, Karnataka during December 18th -19th , **2009**. Abstr No. Poster 128, page No. 139.

Workshops / Seminars / Conference attended

1. UGC sponsored two days National level Seminar on Global warming and water Crisis organized by Channabasaveshwar Arts, Science & Commerce College, Bhalki, Bidar, Karnataka during 6th-7th March. **2010**.
2. UGC sponsored one day National Seminar on Nano Chemistry organized by the Department of postgraduate studies & Research in Chemistry, Gulbarga, University, Gulbarga held on 29th March. **2010**.
3. The 98th conference "the Indian Science Congress" organized by SRM University, Chennai during 3rd-7th, January. **2011**.
4. One workshop on Alternative to use of Animals in Life Science Education for Zoology teachers organized by Department of Zoology, Gulbarga University, Gulbarga held on 9th July, **2011**.
5. The 30th annual conference "Indian council of chemists" organized by Department of Chemistry, Osmania University, Hyderabad during 28th-30th, December. **2011**.
6. The 99th conference "the Indian Science Congress" organized by KIIT University, Bhubaneswar during 3rd-7th, January. **2012**.
7. UGC Sponsored two days National seminar on Recent Advances in Nano Science organized by Akkamahadevi Womens College, Bidar, Karnataka during 2nd & 3rd March. **2012**.
8. One day workshop on Impact Research & Funding Opportunities organized by Matashree Taradevi Rampure institute of Pharmaceutical Sciences Gulbarga-Karnataka held on 01st September. **2012**.
9. UGC Sponsored two days National Seminar on Recent Trends in Biodiversity of India organized by Muluk Sherier Irani Degree College Gulbarga during 11th-12th March. **2014**.

10. UGC Sponsored two days National level seminar on Recent Techniques in Instrument Methods of Chemical Analysis organized by Karnataka Arts, Science and Commerce College Bidar, Karnataka during 26th-27th September. **2014**.
11. Two days workshop College Teacher on the Development of new Curriculum for Undergraduates organized the Department of postgraduate studies & Research in Chemistry, Gulbarga, University, Kalaburagi during 29th- 30th October. **2015**.
12. UGC Sponsored three days National workshop on Research Methodology organized by Department of Zoology, Government College Kalaburagi during 09th - 11th October. **2017**.

Conducted National seminars

1. Experience of conducting UGC sponsored two days national seminars "The role of chemistry in Nano world" held on 4th & 5th **2013**, budgets of Rs.1.4 lakhs.
2. "Sustainable Chemistry in tackling Global Warming" held on 19th & 20th September **2014** with budgets of Rs.1.5 lakhs

National seminar Commutated

1. Impact of green chemistry on biodiversity and environmental challenges" (IGCBE-2018) submitted to Science and Engineering Research Board (SERB), New Delhi-110070. Dated **12-06-2018**. Estimated amounts **Rs. 2.2 lakhs**.

Serving as potential reviewer for reputed international journals

1. The review article entitled "Functional Relaxant Effect of 6,7-dipropoxy-2H-chromen-2-one is mainly by Calcium Channel Blockade in ex vivo Assay of Tracheal Rings" *Journal of Medicinal Chemistry Research*-SPRINGER (**Feb-2019**).
2. The review article entitled "Design, Synthesis, Estrogenic And Antiestrogenic Activities of Some Triarylpyrazole Derivatives" Mahmoud A. RagabHeba A. Abd El Razik , Elham A. Afify, Khadiga A. Ismail, Mounir A. Khalil, Nargues S. Habib journal *Medicinal Chemistry Research*-SPRINGER (**March-2017**).
3. Xianping Dai, Mengshun Li, and Feng Geng"Omega-3 poly-unsaturated fatty acid EPA and DHA enhance dexamethasone sensitivity in multiple myeloma U266 cells by a p53/miR-34a/Bcl-2 axis" *Medicinal Chemistry Research*-SPRINGER (**October-2016**).
4. The review article entitled "Molecular Docking and ADMET studies of novel 1-(4-fluorophenyl) pyrazolidine-3, 5-dione derivatives as potential EGFR-TK inhibitors" *Medicinal Chemistry Research*-SPRINGER (**March-2016**).

5. Mohamed S. Behalo¹ and Giuseppe Mele “Synthesis and evaluation of pyrido[2,3-*d*]pyrimidine and 1,8-naphthyridine derivatives as potential antitumor agents” *journal Medicinal Chemistry Research*-SPRINGER (July -2015).
6. The review article entitled “Synthesis and antibacterial activity of novel phosphonium salts on the basis of pyridoxine” Mikhail V. Pugachevet *al.*, *journal of Bioorganic medicinal Chemistry*-ELSEVIER (2014).