

## Curriculum Vitae

Dr. VENKANNA BANOTHU

B. Tech, M. Tech & Ph. D.



### Official

Assistant Professor (Contract)  
Centre for Biotechnology,  
Institute of Science & Technology,  
Jawaharlal Nehru Technological  
University Hyderabad, Kukatpally,  
Hyderabad- 500 085,  
Telangana State, India.

### Residential

Balu Naik Thanda  
Nallabelli (V),  
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### EDUCATION

2018	Ph. D.,	Bio-Technology	Jawaharlal Nehru Technological University Hyderabad (JNTUH), Kukatpally, T. S., India.
2011	M. Tech.,	Bio-Technology	CMR - College of Engineering & Technology (JNTUH), Kandlakoya, Hyderabad, T. S., India.
2008	B. Tech.,	Bio-Technology	Vaagdevi College of Engineering (JNTUH), Warangal, T. S., India.
2004	I.P.E.,	Bi. P. C.	Board of Intermediate Education, T. S., India.
2000	S. S. C.,	All	Board of Secondary Education, T. S., India.

### RESEARCH INTERESTS

- ❖ Herbal Pharmacology and Pharmacognosy
- ❖ Small bioactive molecules identification and its medical applications
- ❖ Anti-cancer activity & Obesity, Type-2 Diabetes and animal models
- ❖ Synthesis and characterization of Nano-materials

### ACADEMIC/RESEARCH DISSERTATIONS

**Ph. D.:** Isolation and characterization of antimicrobial compounds from selected plant extracts against bacterial strains of skin exudate.

**M. Tech.:** A study on antibacterial activity of *Datura stramonium* against Methicillin-Resistant *Staphylococcus aureus* (MRSA).

**B. Tech.:** A study on immunological responses in myocardial infarction patients.

### FELLOWSHIPS

2014 - 2017	Senior Research Fellow (SRF)	Centre for Biotechnology, Institute of Science & Technology, JNTUH, T.S., India.
2012 - 2014	Junior Research Fellow (JRF)	Centre for Biotechnology, Institute of Science & Technology, JNTUH, T.S., India.

### AWARDS AND HONOURS

2011-12	UGC-RGNF	Rajiv Gandhi National Fellowship for ST/SC, Govt of India.
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## INDUSTRIAL EXPERIENCES

- Worked as Junior Manager – Production at AUROBINDO Pharma Ltd, Ameerpet, Hyderabad from July 01, 2011 to June 31, 2012.

## TEACHING EXPERIENCES

- Worked as Guest Faculty at Centre for Biotechnology, IST, JNTUH, and Hyderabad from September to December 2018.
- Worked as Assistant Professor (Contract) at Centre for Biotechnology, IST, JNTUH, and Hyderabad from January 2019 to till date.

## PUBLICATIONS

**First Author: 03**

**Research articles: 21**

**H-index: 4; i10 index: 03**

**Citations: 51**

**Under Review articles: 05**

**Research gate score: 13.99**

**Total Impact factor: 14.353**

**Co-Author: 26**

- [1] **Banothu V**, Neelagiri C, Adepally U, Lingam J, Bommareddy K. Phytochemical screening and evaluation of in vitro antioxidant and antimicrobial activities of the indigenous medicinal plant *Albizia odoratissima*. **Pharmaceutical Biology**, Feb **2017**; 55(1): 1155-1161. DOI: 10.1080/13880209.2017.1291694 (**SCI/Scopus, I.F = 1.918\***).
- [2] **B. Venkanna**, A. Uma, Ch. Suvarmalaxmi, N. Chandrasekhamath, R. S. Prakasham and L. Jayalaxmi. Antimicrobial property of *Datura* leaf extract against Methicillin-resistant *Staphylococcus aureus* isolated from Urethral and Skin Suppurative Infections. **Current Trends in Biotechnology and Pharmacy**, July **2013**; 7 (3) 782-792 (**Scopus/UGC, I.F = 0.5\***).
- [3] L Shadap, S Diamai, **V Banothu**, DPS Negi, U Adepally, W Kaminsky, MR Kollipara. Half sandwich platinum group metal complexes of thiourea derivative ligands with benzothiazole moiety possessing anti-bacterial activity and colorimetric sensing: Synthesis and characterisation. **Journal of Organometallic Chemistry**, February **2019**; 884 (2): 44-54. DOI: 10.1016/j.jorganchem.2019.01.019 (**SCI/Scopus, I.F = 1.946\***).
- [4] Kuntala N, Telu JR, **Banothu V**, Balasubramanian S, Anireddy JS, Pal S. Design, synthesis and antibacterial evaluation of compounds based on new benzoxepine-oxime-1,2,3-triazole hybrid. **Mini-reviews in medicinal chemistry**, **2018**, 18(9): 803-809. DOI: 10.2174/1389557517666170717123741 (**SCI/Scopus, I.F = 2.903**).
- [5] Geetha Chukka, Kesavulu M. Muppuru, **Venkanna Banothu**, Reddy S. Battu, Uma Addepally, Syam P. Gandavaram, Naga R. Chamarthi, Rao V. B. Mandava. "Microwave assisted one-pot synthesis of new  $\alpha$ -aminophosphonates using  $ZnBr_2 \cdot SiO_2$  as a catalyst under solvent free conditions and their anti-cancer activity". **ChemistrySelect**, **2018**; 34(3): 9778-9784. DOI: 10.1002/slct.201801965 (**SCI/Scopus, I.F = 1.505\***).
- [6] Tejeswara Rao Allaka, Naresh Kumar Katari, **Venkanna Banothu**, Srinubabu Maddela, Jaya Shree Anireddy and Manojit Pal. Synthesis and antibacterial / antitubercular / antioxidant activities of compounds containing fluoroquinolone ring linked to a 4-thiazolidinone moiety. **Letters in Drug Design & Discovery**, **2018**; 15(10): 1087-1094. DOI: 10.2174/1570180815666171229150032 (**SCI/Scopus, I.F = 1.17\***).
- [7] Naveen Kuntala, Jhonsee Rani Telu, **Venkanna Banothu**, Suresh Babu Nallapati, Jaya Shree Anireddy and Sarbani Pal. Novel benzoxepine-1,2,3-triazole hybrids: Synthesis and pharmacological evaluation as potential antibacterial and anticancer agents. **MedChemComm**, July **2015**; 6(7): 1612-1619. DOI: 10.1039/c5md00224a (**SCI/ Scopus, I.F = 2.608\***).
- [8] Parsharamulu Rayam, Naveen Polkam, Kummari Bhaskar, **Venkanna Banothu**, Durgaiah Gandamalla, Narsimha Reddy Yellu, Jaya Shree Anireddy. Synthesis and Biological Evaluation of New Ibuprofen-1,3,4-oxadiazole-1,2,3-triazole Hybrids. **Journal of Heterocyclic Chemistry**, December **2018**; 56(1): 296-305. DOI: 10.1002/jhet.3409 (**SCI/Scopus, I.F = 1.145\***).

- [9] Naveen Kuntala, Jhonsee Rani Telu, **Venkanna Banothu**, Suresh Babu Nallapati, Jaya Shree Anireddy and Sarbani Pal. Synthesis, biological evaluation and Lipinski analysis of new hybrids containing 1,2,3-triazoles and dihydropyrimidinone scaffolds. **Russian Journal of General Chemistry**, January 2019; Accepted (SCI/Scopus, I.F = 0.658\*).
- [10] Shankaraiah Malthum, **Venkanna Banothu**, Jaya Shree Anireddy. 'Synthesis of 1,3,4-oxadiazole of NSAIDS and their biological properties'. **Asian Journal of Research in Chemistry**, February, 2018; 11(1): 139-142 (Scopus/UGC, I.F = 0.5\*).
- [11] **Venkanna Banothu**, Uma Adepally, Jayalakshmi Lingam. *In vitro* total phenolics, flavonoids contents, antioxidant and antimicrobial activities of various solvent extracts from the medicinal plant *Physalis minima* Linn. **International Journal of Pharmacy and Pharmaceutical Sciences**, March 2017; 9(3):192-198 (I.F = 0.512\*).
- [12] Ashok Reddy Ankireddy, Gundla Rambabu, Tuniki Balaraju, **Venkanna Banothu**, PushpaLatha Gundla, Uma Addepally and Jithendra Chimakurthy. Quinazolin derivatives as emerging alpha-glucosidase inhibitors. **European Journal of Chemistry**, 2018; 9(4): 322-330 (Scopus/UGC, I.F = 1.09\*).
- [13] Sarbani Pal, Naveen Kuntala, Jhonsee Rani Telu, **Venkanna Banothu**, Jaya Shree Anireddy. Synthesis, Characterization, Antibacterial and Anticancer Activity of Some Novel Triazolyl Chromenone Derivatives. **Der Pharma Chemica**, Dec 2017, 9(23): 1-7 (I.F = 0.019\*).
- [14] Ashok Reddy Ankireddy, Gundla Rambabu, Tuniki Balaraju, **Venkanna Banothu**, Pushpa Latha Gundla, Uma Addepally, Manohar Mantipally. Synthesis, Characterization and Antibacterial Activity of Some Novel C-7-Substituted-2 -morpholino-N-(pyridin-2-ylmethyl) quinazolin-4-amine Derivatives. **Der Pharma Chemica**, 2018, 10(11): 40-48 (I.F = 0.019\*).
- [15] B. Suresh Babu, M. Lakshmi Narasu, **B. Venkanna**, CH. Narmada. Evaluation of Antimicrobial and Antioxidative Activities of the Aerial Plant Extracts of *Elytraria acaulis*. **International Journal of Current Microbiology and Applied Sciences**, 2016, 5(8): 20-29. DOI: <http://dx.doi.org/10.20546/ijcmas.2016.508.003>. (I.F = 0.654\*).
- [16] Kalapala Venkatesh, **Banothu Venkanna**, K. B. Chandra Sekhar and K. Mukkanti. Synthesis, characterization & biological activity of some new thiosemicarbazide derivatives and their transition metal complexes. **Journal of Chemical and Pharmaceutical Research**, 2015; 7(8): 437-445 (I.F = 0.0285).
- [17] Koduru Sri Shanthi PRAVEENA, **Venkanna BANOTHU**, Nandula Yadagiri Sreenivasa MURTHY and Sarbani PAL. Synthesis and antibacterial activity of Phenyl -2-[4- {(N-(2,2,4 -tri methyl-7-phenoxy-1,2-dihydroquinolin-6-yl) methylsulfonamido) methyl}-1H-1,2,3-triazol-1-yl]acetate. **Journal of Single Molecule Research**, 2014; 2(3): 39-43. DOI: 10.12966/jsmr.09.01.2014.
- [18] Ch. Suvarna Lakshmi, A. Uma, M. Lakshminarasu, **B. Venkanna**. Evaluation of Antimicrobial Property of *Thespesia Populnea* Root Extracts against *Genitourinary Tract Infectious* Pathogens. **International Journal for Pharmaceutical Research Scholars**, 2014; 3(2): 505-519 (I.F = 0.0285).
- [19] N. Chandrasekharnath, Y.V Mahlakshmi, L. Jayalakshmi, **B. Venkanna**, A. Uma. Screening and isolation of bioactive factors from *Commiphora myrrha* and evaluation of their antimicrobial activity. **International Journal of Engineering Research and Applications**, 2013; 3(2): 1-4 (I.F = 0.179).
- [20] N. Chandrasekharnath, **B. Venkanna**, Y.V. Mahlakshmi, A. Uma. Phytochemical analysis and antimicrobial activity of various solvent extracts of *Punica Granatum* and *Phyllanthus niruri*. **An International Journal of Advances in Pharmaceutical Sciences**, 2013; 4(2): 191-196 (I.F = 0.69).
- [21] Suresh Babu B, Lakshmi Narasu M, **Venkanna B**, Kalyani CH, Narmada CH. Screening of Antimicrobial and Antioxidative Activities of the plant extracts of *Elytraria acaulis*. **Discovery**, 2016; 52(247): 1546-1554.

#### PAPERS COMMUNICATED: 05

- [1] "Synthesis, molecular properties prediction and screening of antibacterial, anticancer activities of new pyrazolo [1,5-a]pyrazine-2-carboxylic acid derivatives". **Chemistry Select**, 2018, Shankaraiah Malthum; Bhaskar Kummari; Tejeswara Rao Allaka; **Venkanna Banothu**; Jaya Shree Anireddy.

- [2] "Synthesis, structural and antimicrobial studies of half-sandwich ruthenium, rhodium and iridium complexes containing nitrogen donor Schiff-base ligands". **Journal of Molecular Structure**, 2018. Agreeeda Lapasam; **Venkanna Banothu**; Uma Adepally; Mohan rao Kollipara.
- [3] "Design, Synthesis and Biological Evaluation of New Ibuprofen-1,3,4-oxadiazole-1,2,3-triazole Hybrids". **ChemistrySelect**, 2018. Parsharamulu Rayam; Perla Ramesh; Naveen Polkam; Kummari Bhaskar; **Venkanna Banothu**; Durgaiah Gandamalla; Narsimha Reddy Yellu; Jaya Shree Anireddy.
- [4] "Synthesis, molecular properties prediction and screening of antibacterial, anticancer activities of new pyrazolo[1,5-a]pyrazine-2-carboxylic acid derivatives". **Journal of the Iranian Chemical Society (JICS)**, 2018. NAVEEN Polkam; Shankaraiah Malthum; Bhaskar Kummari; Tejeswara Rao Allaka; **Venkanna Banothu**; Jaya Shree Anireddy.
- [5] "Quinazolin derivatives are promising anti diabetic agents". **Drug Development and Industrial Pharmacy**, 2018. Suresh reddy, Rambabu Gundla; Tuniki Balaraju; **Venkanna Banothu**; Pushpa Latha Gundla; Uma Addepally; Jithendra Chimakurthy.
- [6]

#### INTERNATIONAL CONFERENCE PROCEEDINGS

- [1] **Venkanna Banothu**, Uma Addepally, Vikky Rajulapati, Jayalakshmi Lingam. Screening of biochemical tests and crude extracts of *Albizia odoratissima* leaves for antibacterial activity. International conference on Biotechnology & Bioengineering Trends (ICBT) held at Jawaharlal Nehru Technological University Hyderabad, Kukatpally, T.S., and India during 23<sup>rd</sup> – 25<sup>th</sup> March 2017. pp. 610-617.
- [2] Kiran Kumari Palety, Uma Addepally, Umakanth A. V, Bala Narsaiah and **Venkanna Banothu**. Comparative evaluation of antioxidant activity in sorghum grain varieties and fresh fruit juices. International conference on Biotechnology & Bioengineering-Trends (ICBT) held at Jawaharlal Nehru Technological University Hyderabad, Kukatpally, T.S., and India during 23<sup>rd</sup> – 25<sup>th</sup> March 2017. pp.724-729.
- [3] Sheik Aliya, Addepally Uma, Yalavarthy Prameela Devi, **Venkanna Banothu**, Ch. Suvamalakshmi (2014). Evaluation of antimicrobial, anthelmintic and cytotoxic activity of medicinal plant *Stevia rebaudiana Berton*. International Conference of Chemical Science & Technology (ICCS), IST, JNTUH, T.S., India. pp: 35-42.

#### INTERNATIONAL SEMINAR/SYMPOSIUM/CONFERENCE ATTENDED

Year	Place	Research Presentation
2017	Centre for Biotechnology, IST, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, T.S., India, held on 23 <sup>rd</sup> -25 <sup>th</sup> March.	Screening of biochemical tests and crude extracts of <i>Albizia odoratissima</i> leaves for antibacterial activity.
2016	Centre for Spatial Information Technology, IST, JNTUH, Kukatpally, T. S., India, held on 5 <sup>th</sup> July.	Screening of Antimicrobial and Anti oxidative activities of the plant extracts of <i>Elytraria acaulis</i> .
2014	JNTU Kakinada (Godavari Knowledge Park), Kakinada, A.P., India, held on 15 <sup>th</sup> - 17 <sup>th</sup> December.	Bio-Andhra, International conference on Marine, Agriculture and Pharma – Biotechnologies.
2010	CMR Group of Institutions, Kandlakoya, Hyderabad, T.S., India, held on 22 <sup>nd</sup> & 23 <sup>rd</sup> March.	Isolate, characterized, synergetic compounds of $\beta$ -lactams against methicillin resistance <i>Staphylococcus aureus</i> from selected plant extract.
2010	An International Conference held on Biotechnology: A Global Scenario – 2 <sup>nd</sup> – 4 <sup>th</sup>	Antibacterial activity of <i>N. arbor-tristis</i> in combination with certain

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antibiotics against multi drug resistant pathogen – MRSA.

**POSTER PRESENTATION IN INTERNATIONAL CONFERENCE**

Year	Place	Research Presentation
2014	International Conference of Chemical Science & Technology (ICCST), IST, JNTUH, T.S., India.	antibacterial and in vitro anti proliferative activity of triazolobenzoxepine derivatives.

**NATIONAL SEMINAR/SYMPOSIUM ATTENDED**

Year	Place	Research Presentation
2016	JNTU Kakinada, Kakinada, A.P., India, held on 22 <sup>nd</sup> -23 <sup>rd</sup> March.	Recent Trends in Biotechnological Applications to Control Diabetes Mellitus (RTBACD).
2010	XIX APSI Scientists Meet and UGC Sponsored National Conference on Plant Biotechnology: Towards Nutrition & Nutraceutical Potential-30 <sup>th</sup> Sep-1 <sup>st</sup> Oct, p: 107.	Antimicrobial activity of <i>Nyctanthes arbor-tristis</i> against selected strains of MRSA.

**PARTICIPATION AT CONFERENCES/ SHORT TERM COURSES/ WORKSHOPS/SEMINARS**

S. No.	Name of the Conference/ Short Term Courses/ Workshops/ Seminars	Remarks	Dates
1.	Workshop on 'Migration, Navigation and Bio-mimicking Aerial vehicles' (Course code: NERTU/SC/71) organized by CBT, IST, JNTUH in collaboration (technical) with Research and Training unit for Navigational Electronics, Osmania University & IEEE Hyderabad Section, Hyderabad, Telangana.	Workshop	1 <sup>st</sup> to 3 <sup>rd</sup> November, 2018
2.	Workshop on "Recent Trends in Optimization Studies for Engineering Applications", Dayalbhag Educational Institute, Agra & CBT, IST, JNTUH, T. S., India.	Workshop	13 <sup>th</sup> & 14 <sup>th</sup> August, 2018
3.	Workshop on "Emerging Trends in Patents and IPR & Future Implications", CBT, IST, JNTUH, T. S., India.	Workshop	24 <sup>th</sup> April, 2018
4.	National Seminar on "Advances in Water and Wastewater Treatment", Centre for Environment, IST, JNTUH, Hyderabad, T. S., India.	National Seminar	27 <sup>th</sup> June, 2016
5.	ICMR Seminar on "Animal Welfare and Alternatives to Experimentation in Biomedical Research" during the World Laboratory Animal Day, National Institute of Nutrition, Tarnaka, Uppal, Hyderabad, T, S., India.	Seminar	24 <sup>th</sup> April, 2016
6.	Workshop on "Fermentative production of ethanol from sweet sorghum juice", CBT, IST, JNTUH, T. S., India.	Workshop	16 <sup>th</sup> -18 <sup>th</sup> March, 2016
7.	International Conference on "Bio-Aisa 2016" The Global Bio business From, International Convention Center, Hyderabad, T.S., India.	International Conference	8 <sup>th</sup> -10 <sup>th</sup> February, 2016
8.	University Library on "SciFinder-User Awareness Workshop", Kukatpally, Hyderabad, T. S., India.	Workshop	10 <sup>th</sup> February, 2015
9.	Indo-US Conference on "Advanced Lignocellulosic Biofuels", IICT, Tarnaka, Uppal, Hyderabad, T.S., India.	Indo-US Conference	10 <sup>th</sup> & 11 <sup>th</sup> November, 2014
10.	Two day National workshop on "Bio-fuels from	Workshop	5 <sup>th</sup> & 6 <sup>th</sup>

	waste", CBT, IST, JNTUH, T.S., India.		August, 2014
11.	Workshop on "Biostatistics, Research methodology & Manuscript preparation", CBT, IST, JNTUH, T.S., India.	Workshop	24 <sup>th</sup> – 26 <sup>th</sup> July, 2014
12.	Awareness workshop on "Intellectual Property Rights", JNTUH, Hyderabad, T.S., India.	Workshop	26 <sup>th</sup> March, 2014
13.	3 <sup>rd</sup> research Methodology Course, R & D Cell, JNTUH, Kukatpally, Hyderabad, T. S., India.	Volunteer	16 <sup>th</sup> – 21 <sup>st</sup> December, 2013
14.	International Conference on "Chemical and Bioprocess Engineering – India", Department of Chemical Engineering, NIT Warangal, A.P., India.	International Conference	16 <sup>th</sup> & 17 <sup>th</sup> November, 2013
15.	Two day (Hands on) workshop on "Enzyme Engineering and Process Optimization Principles", CBT, IST, JNTUH, T. S., India.	Workshop	16 <sup>th</sup> & 17 <sup>th</sup> March, 2012
16.	Two day workshop on "Identification of organisms raw DNA and protein sequences by utilizing bioinformatics tools", organized by Royal Life Science Pvt., Secunderabad, Telangana, India.	Workshop	9 <sup>th</sup> & 10 <sup>th</sup> December, 2010

#### Professional Trainings/Certificate Courses

- 2013 16 to 21 December, 2013 from JNTUH campus, 3<sup>rd</sup> Research Methodology Course, Kukatpally, Hyderabad (1 Week).
- 2008 August to September, 2008 training in HPLC from Derex Labs Pvt. Ltd, S. R. Nagar, Hyderabad (1 Month).

#### PERSONAL, REFERENCE AND ACADEMIC WEBSITES

- [https://www.researchgate.net/profile/Venkanna\\_Banothu2/publications?pubType](https://www.researchgate.net/profile/Venkanna_Banothu2/publications?pubType)
- <http://scholar.google.co.in/Dr.VenkannaBanothu>
- <https://www.pubfacts.com/author/Venkanna+Banothu>
- <http://www.Linked in.com/Venkanna+Banothu>

#### REFERENCES

##### Dr. A. Uma

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##### Prof. Praveen Mamidala

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##### Prof. Suresh Rayala

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#### Personal Profile

Name : Dr. Venkanna Banothu  
Date of birth : 11<sup>th</sup> April, 1985  
Father name : Dhansingh Banothu  
Mother name : Kameselia Banothu  
Sex : Male  
Languages known : Telugu, Hindi, English.  
Nationality : Indian  
Passport Number : S0665158

**Declaration**

I here declare that all statements made here are true to the best of my knowledge and belief.

**Place:** Hyderabad

**Date:** 05/02/2019

Venkanna Banothu