

## **CURRICULUM VITAE**

**K.N.Visweswara Sastry (SRF, Ph.D)**

National Institute of Pharmaceutical Education and Research-Hyd

(Mentor Institute: IICT-Hyd)

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### **OBJECTIVE**

Seeking a suitable position in your esteemed organization where I can explore my knowledge and experience with the best level of my performance and to evolve myself as a Research Scientist.

**Expertise:** Synthetic Organic and Medicinal Chemistry • Drug Design and Discovery • Good Laboratory Management Skills • Preparation of scientific manuscripts, reports and presentations.

### **EDUCATION AND RESEARCH**

**Ph.D** Medicinal chemistry (Aug 2013 to June 2018)

**Thesis Title:** “**Development of new methodologies for the synthesis of Benzoxazocine triazoles, Trisubstituted Pyrazoles, Substituted Quinazolines, Polysubstituted Pyrroles and their Biological Evaluation.**”

Research Supervisor: **Dr. Ahmed Kamal**, Outstanding Scientist

Institute: Indian Institute of Chemical Technology-Hyderabad

Co-Supervisor: **Dr. B. Nagendra Babu**, Principal Scientist

Institute: Indian Institute of Chemical Technology-Hyderabad

**M.S.(Pharm.)** in Medicinal Chemistry (2011-2013)

- CGPA 9.3
- National Institute of Pharmaceutical Education and Research-Mohali

**Bachelor of Pharmacy (2007-2011)**

- First class with distinction (79.3%)
- JNTU-Hyd

### **AWARDS AND ACHIEVEMENTS**

- Secured **AIR 1<sup>st</sup>** in **NIPER PhD-JAT-2013** and was awarded with **NIPER fellowship** for Ph. D in Medicinal Chemistry from Ministry of Chemical and Fertilizers, Govt. of India (**Aug 2013 – Aug 2018**).
- Qualified NIPER-JEE (For M.S.(Pharm.) Programme) with AIR-124.
- Qualified GPAT with AIR-609.

## PROFESSIONAL COMPETENCE

**Organic synthesis:** Expertise in carrying out various organic reactions including air and moisture sensitive reagents/reactions, multistep synthesis of pharmaceuticals, asymmetric synthesis and process chemistry.

**Purification:** Excellent skills in purification of organic compounds using crystallization, distillation and chromatography as well as preparative TLC techniques.

**Analytical techniques:** Experienced in handling the instruments flash chromatography, HPLC, LCMS, UV-Visible, IR, and Fluorescence Spectrophotometers.

**Structural elucidation:** Expertise in interpretation of NMR, Mass, IR, UV-Visible and XRD.

**Biological studies:** Working experience with MTT assay, DNA binding studies using biophysical studies and viscosity studies.

**Technical skills:** Conversant with commonly used computer Softwares: MS-Office, Adobe Photoshop, Chem Office (chemdraw, 3D), Reaxys and Sci-Finder as well as capable of preparation of research reports and manuscripts for publications.

**Personal Ability:** Maintain good interpersonal relationships with capable of performing in part of group or/and independent work and identifying research problems and solving them independently.

## WORK EXPERIENCE

1. Working as Senior Research Scientist in AMRI (Hyderabad Research Centre) from 03 September 2018 to till date.

## LIST OF PUBLICATIONS

1. One-Pot, Three-Component Approach to the Synthesis of 3,4,5-Trisubstituted Pyrazoles. Ahmed Kamal\*, **K. N. Visweswara Sastry**, D. Chandrasekhar, Geeta Sai Mani, Praveen Reddy Adiyala, Jagadeesh Babu Nanubolu, Kiran Kumar Singarapu and Ram Awatar Maurya\* *J.Org. Chem.* **2015**, *18*, 4325-4335. <https://pubs.acs.org/doi/10.1021/jo502946g>
2. Synthesis, DNA binding affinity and anticancer activity of novel 4H-benzo[g][1,2,3]triazolo[5,1-c][1,4]oxazocines. **K. N. Visweswara Sastry**, Sunitha Rani Routhu, Soma Gupta Datta, Narayana Nagesh,\* Bathini Nagendra Babu, Jagadeesh Babu Nanubolu, C. Ganesh Kumar, Ram Awatar Maurya\* and Ahmed Kamal\* *Org. Biomol. Chem.* **2016**, *14*, 9294-9305. <https://pubs.rsc.org/en/content/articlelanding/2016/ob/c6ob01077f#!divAbstract>

3. Copper-Catalysed Tandem Synthesis of Substituted Quinazolines from Phenacyl Azides and O-Carbonyl Anilines. **K. N. Visweswara Sastry**, B. Prasad, B. Nagaraju, V. Ganga Reddy, A. Alarifi, B. N. Babu, \* Ahmed Kamal\* *ChemistrySELECT*. 2017, 2, 5378-5383.

<https://onlinelibrary.wiley.com/doi/10.1002/slct.201700889>

4. Novel fused triazole compounds and process for preparing the same; Ahmed Kamal, **K. N. Visweswara Sastry**, Nagendra Babu Bathini, Ram Awatar Maurya, Mahesh Rasala, Soma Gupta Datta, Praveen Reddy Adiyala.

(Patent filed in 2016), **India Appl. No # 201641002693**

## LIST OF PRESENTATIONS

1. Synthesis, DNA binding affinity and anticancer activity of novel 4H benzo[g][1,2,3]triazolo[5,1-c] [1,4]oxazocines.

➤ Presented a **Poster**.

**National conference on Advanced in Cancer Therapeutics [ACT-2016]** held at CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad on April 4-5th, 2016, Hyderabad-India.

## PARTICIPATION

1. **21<sup>st</sup> CRSI National Symposium in Chemistry** held at CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad on July 14-16, 2017.

## PERSONAL DETAILS

Male, **DOB**: October 11, 1987

**Marital Status**: Married

**Languages known**: English, Telugu and Hindi.

**Nationality**: Indian

## REFERENCES

<b>Dr. Ahmed Kamal</b> School of Pharmaceutical Education and Research (SPER), Jamia Hamdard University, New Delhi 110062, India E-mail: ahmedkamal915@gmail.com Contact No. : +91-9440802784; +91-40-23319370 (Res.)	<b>Dr. Nagula Shankaraiah</b> Associate Professor, Department of Medicinal Chemistry, National Institute of Pharmaceutical Education & Research (NIPER)-Hyderabad, INDIA. Contact No. : +91-9177597879 Email ID: shankar@niperhyd.ac.in; shankarnbs@gmail.com
<b>Dr.B.Nagendra Babu</b> Senior Scientist Center for Semiochemicals CSIR-IICT Hyderabad-500007 India Email: bathini@iict.res.in	