*Dr. Nagalakshmi*

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# Brief Curriculum Vitae

**Education**

**2009-2013 Ph.D in Organic Chemistry**, Andhra University, Visakhapatnam, India

Scientific advisor’s: Prof. Y.L.N.Murthy & Dr. V.Siddaiah

**2005-2007 Master of Science in Organic Chemistry**, Nagarjuna University, Guntur, India

**2002-2005 Bachelor of Science in Botany, Zoology and Chemistry**, Andhra University, Visakhapatnam, India

# Research Experience

**2018 Nov-Dec Senior research Associate**, Kemio solutions Pvt limited, Banglore, India.

**2015 *–* 2018 (May) Research Associate**, Dept of Organic Chemistry & FDW, Andhra University, Visakhapatnam, India.

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| **2014- 2015** | **Senior Research Chemist**, BogaR Laboratories, Rajamundry, India. |
| **2009-2013** | **Research Scholar**, Dept of Organic Chemistry, Andhra University, |
|  | Visakhapatnam, India. |
| **2008-2010** | **Junior Research Fellow**, Defence Research & Development Organization, |
|  | New Delhi, India (Research done at Andhra University, Visakhapatnam, |
| **2007-2008** | India)  **Chemist**, Process Research, Acacia Life Sciences, Hyderabad, India. |

# Oral and Poster Presentations : 19

**Publications :** 9

**Curriculum Vitae**

**Education**

**2018- 2019 Post Graduation Diploma in Regulatory Affairs**, Global Institute of Regultory Affairs, Pune, India.

**2009-2013 Ph.D in Organic Chemistry**, Andhra University, Visakhapatnam, India

Thesis: Synthesis, Characterization & Bio-evaluation (Cytotoxic & Antibacterial activities) of Mannich & Schiff bases of Isatin and Silver Capped Nanoparticles of Isatin-3-thiosemicarbazone & N-benzoylthiourea Besides Development of Synthetic Methodology

Scientific advisor’s: Prof. Y.L.N.Murthy & Dr. V.Siddaiah

**2005-2007 Master of Science in Organic Chemistry**, Nagarjuna University, Guntur, India Summer Project**:** Participated in summer graduate research program on Sumatriptansuccinate drug analysis by different spectroscopic methods

**2002-2005** Bachelor of Science in Botany, Zoology and Chemistry, Andhra University, Visakhapatnam, India

# Research Experience

**2018 Nov- Dec Senior research Associate/ Project Manager** - Kemio solutions Pvt limited, Banglore, India.

* Synthesis of Tetrahydroquinoline moiety and Project Management.
* Appoint chemists, conduct weekly meeting, client interaction, documentation, proper maintain of lab note books up to date, Ppt on projects on going, solving and explain the difficulties during projects to the clients, approval of every step to be taken.

**2015** – **2018 (May) Research Associate**, Dept of Organic Chemistry & FDW, Andhra University, Visakhapatnam, India (Project completed on 31/05/2018)

* “Design and Synthesis of Novel Triazolopyrimidinones as Dipeptidyl Peptidase -IV Inhibitors for Diabetic Therapy”

**2014- 2015 Senior Research Chemist / Project Manager** - BogaR Laboratories, RayaBhupalapatnam, India.

* Appoint chemists, conduct weekly meeting, client interaction, documentation, proper maintain of lab note books up to date, Ppt on projects on going, solving and explain the difficulties during projects to the clients, approval of every step to be taken.
* Developed and implemented syntheses of drug intermediates on pilot and kilogram scale.
* Prepared API under stringent GMP controls in the kilo-lab and pilot plant.
* Applied knowledge of synthetic organic chemistry to explore alternative routes to target compounds.
* Worked as part of multidisciplinary project teams comprised of process chemists, process engineers, and specialists from operations, analytical, automation, and crystallization groups.

**2009-2013 Research Scholar**, Dept of Organic Chemistry, Andhra University, Visakhapatnam, India

* Designed and synthesized novel mannich base from istain which showed activity on lung cancer cells (NCIH 292 & HCC 827) at nano scale (IC50 (μL)-0.012 & 1.43).
* Also synthesized nanoparticles from isatin and performed their bio-evaluation besides the development of new synthetic methodology.

**2008-2010 Junior Research Fellow**, Defence Research & Development Organization, New Delhi, India (Research done at Andhra University,Visakhapatnam,India)

* **“**Design & Development of coated Optode films for the spot detection of toxic chemicals/metals and development of technology for the field study”.
* Developed Optode films successfully for the detection of toxic metals like Fluorine, Aluminium, Arsenic, nickel and cobalt

**2007-2008 Chemist,** Process Research, Acacia Life Sciences, Hyderabad.

* Developed active pharmaceutical ingredients (APIs) includes synthesis, purification and characterization

# Oral and Poster Presentations

* 104th Indian Science Congress, January 3-7, 2017, SV University, Tirupati.
* One day National Seminar on Role of Chemistry in current day industry, 26th November 2016, Andhra University, Visakhapatnam.
* 2nd Andhra Pradesh Science Congress, APSC-2016, 7-9 November 2016.
* International conference on TSCST-NICE 2016, 4th-6th OCTOBER, 2016. Jawaharlal Nehru Technological University, Hyderabad.
* National conference on *“Emerging trends in Pharmaceutical and Chemical Sciences” (ETPCS-2016)*. 28th& 29th March 2016. Sri Venkateswara University, Tirupati, India.
* 3rd Annual International Conference (AIC-3) & Industry-CCRS Congress (ICC) 2015, December 16th-17th, 2015, Dr. B.R. Ambedkar University, Srikakulam.
* *National Seminar on Current Research Trends and Developments in Organic Synthesis (CRTADIOS - 2015)*. 5th& 6th October, 2015, AdikaviNannaya University, Rajahmundry, India
* National Conference on Drug Discovery and Development in Chemistry – Applications in Pharma Industry (DDDC-2015). 14th & 15th September, 2015, Tirupati, India.
* Chennai chemistry conference -2011, IIT Madras, Chennai, India
* National seminar on advances in material chemistry (AMC-2011), Andhra University, India
* National seminar on frontier research areas in organic synthesis (FRAOS -2011), Andhra University, India
* National seminar on recent advances in heterocyclic chemistry (NSRAHC -2011), JNTU- Hyderabad, India
* International conference on advancement of nanoscience and nanotechnology (ICOANN- 2010) Alagappa University, India
* National conference on biological chemistry (NCBC-2010) Gitam University, India
* National conference on green and sustainable chemistry (2010) Birla Institute of Technology & Science, Pilani, Rajasthan, India
* National seminar on Recent advances in natural product chemistry (2010), Andhra University, India
* National seminar on recent developments in green chemistry (RDGC-2009), Andhra University, India
* National seminar on water and health (NSWAH-2008) Organized by Science Vision, Kakinada, A.P India
* National seminar on modern trends in chemistry (2007), Nagarjuna University, India

# Publications

* A Simple and Straightforward Synthesis of Cinnamic acids and Ylidene Malononitriles via Knoevenagel Condensation Employing DABCO as Catalyst. **K. Nagalakshmi**, B.S. Diwakar, B. Govindh, P. Gopal reddy, R. venu, I. Bhargavi, T. J. Prasanna devi, Y.L.N. Murthy and V. Siddaiah. Asian Journal of Chemistry; Vol. 29, No. 7. **2017**
* Silica Perchloric Acid Matrix Supported Ring Opening of Epoxide Under Microwave radiation. Y. L. N. Murthy, B. S. Diwakar, B. Govindh, R.Venu , **K. Nagalakshmi**. Chemical Science Transactions,2(3), 805-812, **2013**.
* Nano Copper ferrite: A reusable catalyst for the synthesis of β, γ- Unsaturated Ketones,

Y. L. N. Murthy, B. Govindh, B. S. Diwakar, **K. Nagalakshmi**, *Journal of Chemical Sciences*, Vol. 124, No. 3, May, pp. 639–645, **2012.**

* Design, synthesis and in vitro antibacterial activities of methyl-4-(substitutedphenyl) [6H- indolo(2,3-b)quinoxalin-6-yl]methylamino)benzoate derivatives, Y L N Murthy**, K. Nagalakshmi** , B.Govind, B.S.Diwakar, E.R.singh*. Chinese Chemical Letters* 22, 567– 570, **2011.**
* Microwave-Assisted Neat Reaction Technology for Regioselective Thiocyanation of Substituted Anilines and Indoles in Solid Media, Y.L.N. Murthy, B. Govindh, B.S. Diwakar, **K. Nagalakshmi**, R. Venu. *J. Iran.Chem. Soc.,* 8(1) 292-297, **2011**.
* Synthesis and Characterization of 2,3-Diphenyl Quinoxaline 1,4-di-*N*-oxide Derivatives and Study of their Antimicrobial Activities, Y L N Murthy, P Mani, B Govindh, B S Diwakar, **Nagalakshmi K**, T Raghava Rao and K V R Rao, *Research Journal of*

*Pharmaceutical, Biological and Chemical Sciences,*Vol. 2, No. 2, pp 553, Jan-Mar **2011**, ISSN:0975-8585.

* A Simple Inexpensive Detection of Nickel in Water Using Optical Chemical Chads: Y.

L. N. Murthy, B. Govindh, B. S. Diwakar, **K. Nagalakshmi**, E.R.singh, *International Journal of Chem Tech Research*, Coden( USA): IJCRGG ISSN: 0974-4290, Vol. 3, No.3, pp 1285-1291, July-Sept **2011**.

* Synthesis and bioevaluation of Schiff and Mannich bases of isatin derivatives with 4- amino-5-benzyl-2,4-dihydro-3H-1,2,4-triazole- 3-thione, Y L N Murthy**,** B Govindh**,** B S Diwakar, **K Nagalakshmi**, K V Raghava Rao, DOI 10.1007/s00044-011-9838-3, *Medicinal Chemistry Research* 21 (10), 3104-3110, **2010**
* Solvent-Free Synthesis of β-Enamino Compounds Promoted by Ferric(III) Ammonium Nitrate, Y. L. N. Murthy, R. Venu, B. Govindh, B. S. Diwakar, **K. Nagalakshmi**. *Asian Journal of Chemistry,* Vol. 22, No. 4, 3047- 3053, **2010**.