

## CURRICULUM VITAE

### **Dr. N. Sankara Rao**

M.Sc., Ph.D.

Lecturer in Chemistry,  
Government Degree College,  
Dr.V.S.Krishna GDC (A),  
Visakhapatnam,  
Andhra Pradesh, India.

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### **PRESENT POSITION**

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- Lecturer in Chemistry Dr.V.S.Krishna GDC (A), Visakhapatnam, from A.N. of 23<sup>rd</sup> September, 2021 to till date.
- Lecturer in Chemistry GDC, Cheepurupalli, Vizianagaram from 1<sup>st</sup> January 2013 to 23<sup>rd</sup> September 2021.

### **EDUCATION AND RESEARCH**

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- **Ph.D. in Organic and Medicinal Chemistry** **2009-2012**  
Research supervisor: **Dr. Ahmed Kamal**, FNASc, Outstanding Scientist, Indian Institute of Chemical Technology (IICT), Hyderabad, India.
- Thesis title: **“Cinnamide/Naphthalimide/Chalcone/Pyrazoline Hybrides as Potential Anticancer Agents and Quinoline Derivatives as Antimicrobial Agents”.**
- **M.Sc in Chemistry** **2004-2006**  
Acharya Nagarjuna University, Guntur, Andhra Pradesh, India.
- **B.Sc (Chemistry, Physics & Maths)** **2001-2004**  
Andhra University, Visakhapatnam, Andhra Pradesh, India.

### **AWARDS & FELLOWSHIPS**

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- Awarded Senior Research Fellowship (SRF) from Council of Scientific and Industrial Research (CSIR), New Delhi, India (2011-12)
- Awarded Junior Research Fellowship (JRF) from Council of Scientific and Industrial Research (CSIR), New Delhi, India (2010-2011)

### **PROJECTS HANDLED**

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- Involved as a team member in the completion of a collaborative research project between IICT and IIIM (Jammu) under the Dept. of Science and Technology program for the design and synthesis of new molecules as potential antimetabolic agents.
- Involved as a team member in the project of a collaborative research project between India and US (INDUS) under the Dept. of Science and Technology program for the design and synthesis of new molecules as potential anticancer agents.
- Involved as a team member in the completion of a collaborative research project between IICT and Advanced Centre for Treatment, Research & Education in Cancer (ACTREC), Mumbai, for the development of new anticancer leads.

## PROFESSIONAL & PERSONAL STRENGTHS

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- Over 3 years of research experience in organic and medicinal chemistry.
- Design and synthesized a number of biologically active new compounds and evaluated their anticancer activity, apoptosis inducing ability, inhibition of tubulin polymerization, and cell cycle effects, western blot analysis.
- Interpretation of the structure using  $^1\text{H}$ ,  $^{13}\text{C}$  NMR, IR, UV and analysis of mass spectra (EI, ESI, FAB and HRMS).
- Acquainted with Adobe Photoshop, Chemdraw and other chemistry related softwares.

## PUBLICATIONS

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- Arylcinnamido-propionone conjugates as tubulin polymerization inhibitors and apoptotic inducers. **N. Sankara Rao**, V. Lakshma Nayak, A.V. Subba Rao, S.M. Ali Hussaini, S. Satish, A. Alarifi, Ahmed Kamal.  
(*Arabian Journal of Chemistry*, 2019, 12, 4740-4755)
- New Quinoline Linked Chalcone and Pyrazoline Conjugates: Molecular Properties Prediction, Antimicrobial and Antitubercular Activities. **N. Sankara Rao**, Anver Basha Shaik, Sunitha Rani Routhu, S. M. Ali Hussaini, Satish Sunkari, A.V. Subba Rao, A. Malla Reddy, Abdullah Alarifi, and Ahmed Kamal.  
(*Chemistry Select*, 2017, 2, 2989–2996)
- Design and synthesis of DNA-intercalative naphthalimide-benzothiazole/cinnamide derivatives: cytotoxicity evaluation and topoisomerase-II $\alpha$  inhibition. **N. Sankara Rao**, Narayana Nagesh, V. Lakshma Nayak, Satish Sunkari, Ramya Tokala, Nagula Shankaraiah, and Ahmed Kamal,  
(*Med. Chem. Commun.* 2019,10, 72-79)
- Synthesis and biological evaluation of combretastatin-amidobenzothiazole conjugates as potential anticancer agents. Ahmed Kamal, Adla Mallareddy, M. Janaki Ramaiah, S.N.C.V.L. Pushpavalli, Paidakula Suresh, Chandan Kishor, J.N.S.R.C. Murty, **N. Sankara Rao**, Sowjanya Ghosh, Anthony Addlagatta, Manika Pal-Bhadra.  
(*Eur. J. Med. Chem.* 2012, 56, 166–178)
- Synthesis and anticancer activity of 4 $\beta$ -alkylamidochalcone and 4b-cinnamido linked podophyllotoxins as apoptotic inducing agents. Ahmed Kamal, Adla Mallareddy, Paidakula Suresh, V. Lakshma Nayak, Rajesh V.C.R.N.C. Shetti, **N. Sankara Rao**, Jaki R. Tamboli, Thokhir B. Shaik, M.V.P.S. Vishnuvardhan, S. Ramakrishna.  
(*Eur. J. Med. Chem.* 2012, 47, 530 – 545)
- Synthesis of chalcone-amidobenzothiazole conjugates as antimitotic and apoptotic inducing agents. Ahmed Kamal, Adla Mallareddy, Paidakula Suresh, Thokhir B. Shaik, V. Lakshma Nayak, Chandan Kishor, Rajesh V.C.R.N.C. Shetti, **N. Sankara Rao**, Jaki R. Tamboli, S. Ramakrishna, Anthony Addlagatta.  
(*Bioorg. Med. Chem.* 2012, 20, 3480–3492)

## PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMMES

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- Two-week Interdisciplinary Refresher Course on "Research Methodology" from 22<sup>nd</sup> December 2021 to 5<sup>th</sup> January 2022, organised under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) scheme organised by TLC Ramanujan College.
- 5 Day Faculty Development Programme in LMS Video & Pedagogy on theme of "Imagining and Shaping of Digital Education & LMS towards development of High – Quality e–Content: Video Making - APP based end to end Editing Tools, Open Educational Resources (OER), OBS Studio, Pedagogy and Assesment" from 3<sup>rd</sup> August, 2020 to 7<sup>th</sup> August, 2020 organised by CCE, AP, Vijayawada.
- 5 Day Faculty Development Programme in Chemistry on theme of "New Knowledge, Advanced Teaching & Research: New Frontiers and Emerging Technologies" from 1<sup>st</sup> July, 2020 to 5<sup>th</sup> July,2020 organised by CCE, AP, Vijayawada.
- Refresher Course at University of Hyderabad on Soft Skills for Professional Excellence to be held from 17<sup>th</sup> June, 2016 to 7<sup>th</sup> July 2016.
- 79<sup>th</sup> Orientation Course at University of Hyderabad on Soft Skills for Professional Excellence to be held from 17<sup>th</sup> January, 2013 to 3<sup>rd</sup> February 2013.

## PERSONAL PROFILE

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| ▪ Name              | : | Dr. N. Sankara Rao  |
| ▪ Father's Name     | : | Krushna   |
| ▪ Date of Birth     | : | 6 <sup>th</sup> May, 1984   |
| ▪ Gender            | : | Male  |
| ▪ Nationality       | : | Indian  |
| ▪ Religion          | : | Hindu   |
| ▪ Languages Known   | : | Telugu, English   |
| ▪ Marital Status    | : | Married   |
| ▪ Permanent Address | : | S/o. N. Krushna,<br>D. No. 1-38,<br>Bhupalarajapuram (Vill &Post)<br>Dattirajeru (Mandal),<br>Vizianagaram Dist.<br>Andhra Pradesh - 535102 |

### Declaration:

I hereby declare that the above stated particulars are true to the best of my knowledge and belief.

Date: 11.03.2022

Place: Visakhapatnam.

(Dr.N.Sankara Rao)