

Biodata

Dr. K. Nagashri

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Academic Profile

Year of Passing	Name of the University/ Institution
2013	Doctor of Philosophy Department of Chemistry Noorul Islam Centre for Higher Education, Kumaracoil.
2009	Master of Science in Pharmaceutical Chemistry Department of Pharmaceutical Chemistry Manonmaniam Sundaranar University, Tirunelveli-627 012.
2007	Bachelor of Science in Chemistry Department of Chemistry The Standard Fireworks Rajaratnam College for Women Sivakasi.

Research Interests

Designing and developing of new chemical entity

Medicinal Chemistry

Infectious Disease

Project Experience

Company : Syngene International Ltd., Biocon Park, Bangalore-560 099

Training : Five months

Title : Synthesis and Utilization of Chlorophenyl derivatives in Buchwald-Hartwig
Coupling

Ph. D.,

Title : Synthesis, characterization and Pharmacological studies of copper complexes derived from flavone derivatives

Research Guide : Dr.J.Joseph
Asst. Professor, Department of Chemistry
Noorul Islam Centre for Higher Education, Kumaracoil

Designation : DST INSPIRE FELLOW

Honour/ Award

- Scored First Rank in Master degree in university level.
- **DST INSPIRE fellowship as JRF** for doctoral studies from August 2010 to July 2012
- **DST INSPIRE fellowship as SRF** for doctoral studies from July 2012 to September 2013.
- Summer research fellowship programme offered by science academics (INSA, NASI & IISc, Bangalore) for a period two months under the guidance of **Dr.Suresh Das, Director, NIIST, Trivandrum.**
- **Best innovation award during** year 2020 honored by Department of Chemistry, Noorul Islam Centre for Higher Education, Kumaracoil.

Funds received

- Science and Engineering Research Board (SERB) had funded Rs. 2558000/- "Synthesis, structures and cytotoxicity studies on simple and mixed ligand copper(II) complexes of certain Hydroxyflavones" under the scheme DST SERB from Nov 2015- Nov 2018.
- Science Academics lecture workshop on developments in chemistry funded by science academics, Bangalore (Rs 1,75,000/-) during 05.07.2018 & 06.07.2018.
- INSPIRE INTERNSHIP SCIENCE Camp organized for XI Students to create science awareness of Rs 9,75,000 during October 18th -22nd , 2019 funded by DST, NewDelhi.

Supervision of candidates for Research

M.Sc	24(completed)
Ph.D	1 (submitted)
	3 (ongoing)

Paper presented

- Participated in “Three days Workshop on Research Methodology and Statistical package by board of research, NICHE at Noorul Islam University, Kumaracoil on 16th to 18th September, 2010.
- Participated and presented the paper in the National seminar on Nanomedicine nanomed’10 organized by Department of Chemistry, Noorul Islam University, Kumaracoil and supported by Tamilnadu State council for Science and Technology on 20th, November, 2010.
- Participated and presented the paper in the International Conference on Mankind: Innovative ideas in life sciences at Nagpur University, Nagpur (Sponsored by BRNS, UGC, DST, ACS, RSC, IUPAC, ICSB) from 9.02.2011 to 11.02.2011.
- Participated and presented the paper in the International Conference on VISTAS in Chemistry at Indira Gandhi Centre For Atomic Research, Kalpakkam from October 11-13, 2011.
- Participated and presented the paper in the 3rd Asian Conference on Coordination Chemistry at IIT, Delhi from October 17-20, 2011.
- Attended and presented International conference on New Horizons in Biotechnology, NIIST, Trivandrum (Sponsored by BRSI) during November 21-24, 2011.
- Participated and presented the paper in the National Conference on Advanced functional materials and Applications at Sri Kaliswari College, Sivakasi (Sponsored by CSIR, DST & TNSCST) on 16th and 17th December, 2011.
- Participated in UGC sponsored National workshop on “Chemistry- Our Environment, Our Life and Our Future” organized by the Department of Chemistry, School of Chemical Science, Alagappa University, Karaikudi during 22nd and 23rd December, 2011.
- Participated and presented the paper in the International Science Symposium on HIV & Infectious Diseases during 20th-22th January, 2012 held at CSIR campus, Taramani, Chennai.
- Participated and presented the paper in the International Conference on “Recent advance in pharmaceutical sciences” during 21st -23rd March, 2012 held at Rayat Institute of Pharmacy, Punjab

- J. Joseph, K. Nagashri, G. B. Janaki and R. Selwin Joseyphus, Novel metal based biomimic agents towards therapeutics: Synthesis, Characterization and biochemical studies of copper complexes, Platinum Jubilee Celebrations & National Seminar on Frontiers in Chemistry (NSFC-2012), University of Kerala, Trivandrum, Kerala, 25-27 April 2012.
- Participated in “A National Level Workshop on Characterization of Advanced Materials” organized by Department of Chemistry, University of Kerala, Trivandrum and supported by Indian Association of hydrogen energy and advanced materials on 11th and 12th, October, 2012.
- Participated, presented a paper (First prize in oral presentation) in the DST sponsored National conference on "Emerging Trends in Chemical Sciences" on 18th & 19th September 2014 at Noorul Islam University, Kumaracoil.
- Participated in the Science Academy sponsored Lecture workshop on "Emerging Trends in Chemical Sciences" on 20th & 22nd February 2015 at Noorul Islam University, Kumaracoil.
- Participated in Symposium Cum Workshop “Advances in Computational Biology and computer aided Drug Design” on 24-26 July 2015 in Department of Biosciences and Bioengineering, IIT Guwahati, Assam.
- Presented a paper entitled “Copper complexes of 2-aminobenzothiazole derivatives as potential antioxidant enzyme mimics towards Alzheimer’s disease” in National conference on trends in Bio- inorganic & Organometallic Chemistry organized by Department of Chemistry and supported by DST sponsored, in association with Elsevier during 15th -17th October 2015.
- Participated, presented a paper National conference on "New frontiers in Chemistry – from fundamentals to application” on 18th & 19th December 2015 in Department of Chemistry, BITS pilani K.K Birla Goa campus, Goa.
- Participated in “International Conference on Recent Advances in Analytical Sciences and presented a paper entitled Synthesis, characterization and biological evaluation of copper complexed Flavone derivatives” organized by Department of Chemistry, Indian Institute of Technology in association with Indian Society of analytical Scientists during 7th to 9th, April, 2016.

- Presented a paper International conference on recent trends in Chemical Science, Govt. Engineering College, Bikaner, Rajasthan during 12-13 Jan. 2017.
- Presented a invited talk in International conference on Molecular Spectroscopy 2017 by Mahatma Gandhi University, Kottayam during 8-10th December 2017
- Presented a paper in 24th ISCB International Conference on Frontier research in Chemistry and biology interface by Manipal University, Jaipur and Indian Society of Chemists & biologists, Lucknow during 11-13th January 2018
- Presented a paper in Second National Conference on Emerging Trends in Applied Sciences and Technology by Noorul Islam Centre for higher education on 28th February 2018.
- Presented a paper in National Conference on Advanced Materials at the interfaces of Energy, Environment & Medicine during 21-23th February 2018.
- Presented a paper in International Conference on Advances in Materials Research - ICAMR 2019, Dec 6–7 December 2019.

Publications

<u>Paper Published</u>	16
Citations	212
h Index	6

1. Novel metal based anti-tuberculosis agent: Synthesis, characterization, catalytic and pharmacological activities of copper complexes
J Joseph, K Nagashri, GB Janaki
European journal of medicinal chemistry 49, 151-163, 2012
2. Highly conjugated curcumin analog based copper complexes towards tuberculosis: synthesis, characterization and antimycobacterial activity
J Joseph, GB Janaki, K Nagashri, RS Joseyphus, CJ Dhanaraj
BMC Infectious Diseases 12 (1), 1-1, 2012
3. Synthesis, characterization and antimicrobial activities of copper complexes derived from 4-aminoantipyrine derivatives
J Joseph, K Nagashri, GAB Rani
Journal of Saudi Chemical Society 17 (3), 285-294, 2012

4. Novel copper-based therapeutic agent for anti-inflammatory: synthesis, characterization, and biochemical activities of copper (II) complexes of hydroxyflavone Schiff bases
J Joseph, K Nagashri
Applied biochemistry and biotechnology 167 (5), 1446-1458, 2012
5. Synthesis, characterization and pharmacological studies of copper complexes of flavone derivatives as potential anti-tuberculosis agents
J Joseph, K Nagashri, A Suman
Journal of Photochemistry and Photobiology B: Biology 162, 125-145, 2016
6. Pharmacological and spectral studies of synthetic biomimetic copper complexes derived from 3-hydroxyflavone derivatives as anti-inflammatory agents
K Nagashri, J Joseph, CJ Dhanaraj
Arabian Journal of Chemistry 9, S548-S556, 2016
7. Synthesis, characterization and biological studies of copper (II) complexes with 2-aminobenzimidazole derivatives
J Joseph, A Suman, K Nagashri, RS Joseyphus, N Balakrishnan
Journal of Molecular Structure 1137, 17-26, 2017
8. Antimicrobial, antioxidant and SOD activities of copper (II) complexes derived from 2-aminobenzothiazole derivatives
J Joseph, GB Janaki, K Nagashri, RS Joseyphus
Journal of Coordination Chemistry 70 (2), 242-260, 2017
9. Design, synthesis, characterization, DNA binding, acetyl and butyryl cholinesterase activities of metal chelates with 1, 10-Phenanthroline derivative
EHE Gladis, K Nagashri, J Joseph
Inorganic Chemistry Communications 122, 108232, 2020
10. Multifunctional 1,10-phenanthroline derivative and its metal complexes as an anti-Alzheimer's agent: structure-based drug design, synthesis, characterization and pharmacological studies
EHE Gladis, K Nagashri, A Suman, J Joseph
Journal of Coordination Chemistry 73 (23), 3267-3290, 2020

11. Determination of ammonia content in various drinking water sources in Malappuram District, Kerala and its removal by adsorption using agricultural waste materials
J Joseph, AK Sajeesh, K Nagashri, EHE Gladis, TM Sharmila,
Materials Today: Proceedings 45, 811-819, 2021
12. Transition metal chelates with multifunctional 1,10-phenanthroline derivative towards production of hydrogen as alternative fuel from sea water: Design, synthesis, characterization and catalytic studies
EHE Gladis, K Nagashri, J Joseph
International Journal of Hydrogen Energy 46 (9), 6573-6587, 2021
13. Synthesis, characterization and biochemical studies of redox active metal complexes with flavone derivative
JRR Krishna, JMA Jose, EHE Gladis, K Nagashri, J Joseph
Materials Today: Proceedings 45, 2046-2052, 2021
14. Enhancing the therapeutic efficacy of copper-based multifunctional agents by incorporating 1, 10-Phenanthroline derivative as chelator
EHE Gladis, K Nagashri, JMA Jose, D Arthi, J Joseph
Materials Today: Proceedings 45, 1887-1892, 2021
15. Novel synthesised chrysin derivatives offer noteworthy insight into the structural scaffolds required for improved anti-proliferative activity
B Ebenezer, K Nagashri, A Suman, J Joseph
Materials Today: Proceedings 45, 1039-1043, 2021
16. Highly conjugative heterocyclic nitrogen base derivative and its metal complexes towards optoelectronic materials: Chemical architecture, synthesis, structural elucidation, catalytic, optoelectronic and pharmacological studies
EHE Gladis, K Nagashri, J Joseph
Materials Today: Proceedings 45, 906-911, 2021