

E. SUNDARAVADIVEL

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CAREER OBJECTIVES

To pursue a challenging career and be a part of a progressive research organization that gives scope to enhance my knowledge, skills and reach the apex in the scientific field with sheer dedication and hard work.

ACADEMIC QUALIFICATION

- Ph.D. Inorganic Chemistry** : **2009-2014**
Department of Inorganic Chemistry
University of Madras, Chennai, India
Thesis entitled “**Synthesis of new cyclic and acyclic polydentate ligands and their mono and binuclear copper(II) complexes: structural, electrochemical, DNA binding, cleavage and BSA binding studies**”
- M.Sc. Inorganic Chemistry** : **2007-2009**
Department of Inorganic Chemistry,
University of Madras, Chennai, India
Secured First Class with 70 %
- B.Sc. Chemistry** : **2003-2006**
R.V. Govt. Arts & Science College, Chengalpattu,
University of Madras, India
Secured First Class with 70 %

AWARDS AND ACHIEVEMENTS

- Awarded as **JRF** in **DST-PURSE** programme from University of Madras (July 2010-June 2013).
- Awarded as **University Industry Community Interaction Centre (UICIC)** from University of Madras (August 2009-June 2010).

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- Guest Editor in “**American Journal of Nanomaterials**”
<http://www.sciepub.com/journal/ajn/SpecialIssueCallForPapers>
ISSN (Print): 2372-3114, ISSN (Online): 2372-3122
- Published one Book for the title of “**SELECTED TOPICS IN CHEMISTRY**” from Laxmi Book Publications, Solapur – 413 005, Maharashtra, India.

RESEARCH EXPERIENCE

- ✓ **University Industry Community Interaction Centre (UICIC)**
Responsibilities: Synthesis of new organic aromatic ketones as drug molecules using liquid ionic crystal as catalyst.
- ✓ **JRF in DST-PURSE** programme
Responsibilities: Synthesis and characterization of new cyclic/acyclic ligands and their copper(II) complexes.

TEACHING AND ADMINISTRATIVE EXPERIENCE

- Assisted Project for Master and M.Phil Degree Students
- To Co-coordinate with my guide to Refresher courses, Orientation courses, Summer Training & Science city programmes.

INSTRUMENTS HANDLED

- ❖ FT-IR Spectrophotometer
- ❖ UV-visible Spectrophotometer
- ❖ Emission Spectrometer
- ❖ Cyclic Voltammogram
- ❖ Gel Documentation
- ❖ Viscosity Measurements
- ❖ Circular Dichroism

RESEARCH INTEREST

- ✚ Bioinorganic Chemistry
- ✚ Coordination Chemistry
- ✚ Anticancer activities of metal based drugs
- ✚ Protein studies
- ✚ Biosensor, Solar cells and solar energy materials

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LIST OF PUBLICATION

1. DNA/BSA binding, DNA cleavage and electrochemical properties of new acyclic copper(II) complexes. **E. Sundaravadivel**, M. Kandaswamy, B. Varghese., RSC Advances 4 (2014) 40763-40775
2. Synthesis, characterization and electrochemical behavior of new acyclic mono and binuclear copper (II) complexes: DNA binding and cleavage studies
E. Sundaravadivel, M. Kandaswamy, B. Varghese., Polyhedron 61 (2013) 33-44
3. (Z)-3-(2-Aminoanilino)-1-phenylbut-2-en-1-one S. Karthikeyan, T. Srinivasan, **E. Sundaravadivel**, M. Kandaswamy, D. Velmurugan, **Acta Cryst.** (2013). **E69**, o780
4. Synthesis of Cu(II), Ni(II), Zn(II), Co(III) and Fe(III) complexes using Deferoxamine and their DNA binding affinity, plasmid DNA cleavage studies V. Hero, S. Poornima, **E. Sundaravadivel**, M. Kandaswamy., International Journal of Inorganic and Bioinorganic Chemistry 3 (2013) 20-29
5. DNA binding and cleavage studies of Cu(II), Ni(II) and Zn(II) Complexes of N-(5-aminopentyl)-3-[[5-(N-hydroxyacetamido)-pentyl]carbonyl] propionohydroxamic acid in aqueous medium V. Hero, S. Poornima, **E. Sundaravadivel**, M. Kandaswamy., International Journal of Inorganic and Bioinorganic Chemistry 2 (2012) 58-67

CONFERENCES ATTENDED

Papers Presented in **International** and **National** Conferences

1. **E. Sundaravadivel**, and M. Kandaswamy “Synthesis, Characterization, DNA/BSA Interaction Studies of Copper(II) Complexes” – Oral presentation presented at **ICAN – 2014**, held at University of Madras, Chennai during 20th and 21st June 2014. (**Best Oral presentation award**)
2. **E. Sundaravadivel**, and M. Kandaswamy “Synthesis, Characterization, DNA and Protein Interaction Studies of Copper(II) Complexes” – paper presented at **ICAN – 2014**, held at University of Madras, Chennai during 20th and 21st June 2014.

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3. **E. Sundaravadivel**, S. Poornima, and M. Kandaswamy “Synthesis and characterization of end-off mono and binuclear copper(II) complexes: DNA/BSA binding and nuclease activity”– paper presented at **16th CRSI National Symposium in chemistry**, held at Indian Institute of Technology Bombay, Powai, Mumbai during February 7-9, 2014.
4. **E. Sundaravadivel** Participated in the **Workshop** on Chromatographic Techniques on Department of Analytical Chemistry, University of Madras, Chennai-25. February 25th, 2013.
5. **E. Sundaravadivel** and M. Kandaswamy “New acyclic mono and binuclear copper(II) complexes; DNA binding and nuclease activity”- Oral presentation presented at International conference on biological inorganic chemistry (**ICBIC-2013**), Department of chemistry, Periyar University, Salem-636 011. February 20-22, 2013.
6. **E. Sundaravadivel** and M. Kandaswamy “DNA binding and nuclease activity of new acyclic mono and binuclear copper (II) complexes” – paper presented at **15th CRSI National Symposium in chemistry**, held at Banaras Hindu University, Varanasi. February 1-3, 2013.
7. **E. Sundaravadivel**, Participated in the “National conference on popularization of chemical sciences” (**NCPC-2012**) on Guru Nanak College, Chennai-42. January 06-08, 2012.

PERSONAL NICETIES

Name : **E. SUNDARAVADIVEL**
Father's Name : R. Elumalai
Date of birth : 10-02-1986
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Marital status : Unmarried
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