

Yenjerla Mythili – Curriculum Vitae

Address

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Sex:Female

Date of Birth: 11-11-1978

Marital Status: Single

Languauges Known: English, Hindi, Tamil, Telugu

Nationality: Indian

Education

Doctor of Philosophy (Biochemistry) University of Madras, Chennai, India 2006

Thesis Title: Biochemical Evaluation of the role of DL- α -lipoic acid in cyclophosphamide induced cardiotoxicity.

Research work details: The efficacy of lipoic acid in countering cyclophosphamide induced cardiotoxicity was studied. Male albino rats were used to assess cardiac changes and to study the effect of test drugs on calcium sensitivity of isolated cardiac myofilaments. Alterations in the development of oxidative, nitrosative stress and metabolism were studied using *in vivo* model. Futher specifically H9c2 cardiac cell line was used to study apoptosis mechanisms.

Master of Science (Biochemistry) University of Madras, Chennai, India 2002

Overall weighted percentage of marks: 80.69%

Project Title: Development of Immunostrip method to detect Calcium Oxalate Kidney stone formers

Project Details: Calcium Oxalate Binding proteins has increased expression in Kidney Stone formers. Antibodies were raised against the peroxidised protein and were used in dot blotting. Results are interpreted according to the colour developed.

Courses: Chemistry of Biopolymers, Analytical Biochemistry, Cellular Biochemistry, Molecular Biochemistry, Molecular physiology at membrane level, Immunology and Immunochemistry, Nutritional Biochemistry, Metabolic and Gene regulation, Enzyme and Enzyme Technology, Macromolecular Biosynthesis, Hormonal Biochemistry, Molecular Basis of Diseases, Medical Biotechnology, Human cytogenetics, Bioinformatics, Fundamentals of Pharmacology and Toxicology

Bachelor of Science (Biochemistry) University of Madras, Chennai, India 2000

Overall weighted percentage of marks: 83.8%

Course: Bioorganic Chemistry, Chemistry, Biophysical Chemistry, biology, Enzymes and Intermediary Metabolism, Macromolecular Biosynthesis, Analytical Biochemistry, Clinical Biochemistry, General Physiology and Nutritional Biochemistry

Techniques Known

- Colorimetric estimation of clinically important constituents
- Enzyme assays and kinetics
- Chromatographic techniques including paper, Ion exchange, gel permeation, HPLC
- Electrophoretic techniques including SDS PAGE, Agarose gel, comet assay
- Immunological techniques including ELISA, Dot Blotting, Immunodiffusion, Western Blotting
- Raising and isolation of antibodies
- Cell Culture studies, Immunocytochemistry
- RT-PCR

Awards and Scholarships

- **Qualified in the examination conducted by Indian Council of Medical Research** (2003) for research fellowship during Ph.D degree.
- Qualified in **GATE** 2002 (Graduate Aptitude Test in Engineering-2002; LifeSciences); Percentile Score 76.99%
- Secured Second position in paper presentation of M.Sc project at the seminar cum exhibition conducted by the Tamilnadu State Council for Science and Technology at Vandavasi, Tamilnadu (2002)
- **Secured First Rank in M.Sc Biochemistry at the University level** from University of Madras (2002)
- **Secured Fourth Rank in B.Sc Biochemistry at the University level** from University of Madras (2000)

Publications

1.**Mythili Y**, Sudharsan PT, Selvakumar E, Varalakshmi P. Protective effect of DL- α -lipoic acid on cyclophosphamide induced oxidative cardiac injury. Chem Biol Interact. 2004; 151(1):13-9.

2.**Mythili Y**, Sudharsan PT, Varalakshmi P. Cytoprotective role of DL- α -lipoic acid in cyclophosphamide induced myocardial toxicity. Mol Cell Biochem. 2005; 276(1-2):39-44.

3. **Mythili Y**, Sudharsan PT, Varalakshmi P. DL- α -lipoic acid ameliorates cyclophosphamide induced cardiac mitochondrial injury. *Toxicology*. 2005; 215(1-2):108-14.
4. **Mythili Y**, Sudharsan PT, Varalakshmi P. Insight into the role of DL- α -lipoic acid against cyclophosphamide induced alterations in calcium sensitivity of cardiac myofilaments. *Mol Cell Biochem*. In Press
5. Sudharsan PT, **Mythili Y**, Selvakumar E, Varalakshmi P. Cardioprotective effect of pentacyclic triterpene, lupeol and its ester on cyclophosphamide-induced oxidative stress. *Hum Exp Toxicol*. 2005; 24(6):313-8.
6. Sudharsan PT, **Mythili Y**, Sudhahar V, Varalakshmi P. Role of lupeol and its ester on cyclophosphamide-hyperlipidaemic cardiomyopathy in rats. *J Pharm Pharmacol*. 2005; 57(11):1437-44.
7. Sudharsan PT, **Mythili Y**, Selvakumar E, Varalakshmi P. Lupeol and its ester ameliorate the cyclophosphamide provoked cardiac lysosomal damage studied in rat. *Mol Cell Biochem*. 2005 In press.
8. Sudharsan PT, **Mythili Y**, Selvakumar E, Varalakshmi P. Lupeol and its ester exhibit protective role against cyclophosphamide-induced cardiac mitochondrial toxicity. *J Cardiovas Pharmacol*. 2005 In press
9. Sudharsan PT, **Mythili Y**, Selvakumar E, Varalakshmi P. Lupeol and its ester inhibit alteration of myocardial permeability in cyclophosphamide induced rats. *Mol cell Biochem*. In press
10. Selvakumar E, Prahalathan C, **Mythili Y**, Varalakshmi P. Protective effect of DL- α -lipoic acid in cyclophosphamide induced oxidative injury in rat testis. *Reprod Toxicol*. 2004; 19(2):163-7.
11. Selvakumar E, Prahalathan C, **Mythili Y**, Varalakshmi P. Beneficial effects of DL- α -lipoic acid on cyclophosphamide-induced oxidative stress in mitochondrial fractions of rat testis. *Chem Biol Interact*. 2005; 28;152(1):59-66.
12. Selvakumar E, Prahalathan C, **Mythili Y**, Varalakshmi P. Mitigation of oxidative stress in cyclophosphamide-challenged hepatic tissue by DL-alpha-lipoic acid. *Mol Cell Biochem*. 2005; 272(1-2):179-85.

Papers presented in Conferences and Workshops attended

1. **Mythili Y**, Sudharasan PT, Varalakshmi P. Mitigatory effect of lipoic acid against peroxidative damage in cyclophosphamide induced cardiotoxicity. International conference on natural products, free radicals and radioprotectors in health and IIIrd annual conference of Society for Free Radical Research, Chidambaram, India. Jan 17-19, 2004.
2. **Mythili Y**. Development of Immunostrip method to detect Calcium Oxalate Kidney stone formers. Seminar cum exhibition of the Student Project Scheme, organized by the Tamilnadu State Council for Science and Technology, Vandavasi, India Dec 12-13, 2002.
3. International Seminar on Immunotechnology and workshop on immunoenzyme labeling in tissue sections, ELISA, 2D and pulse field gel electrophoresis and fermentor. Chennai, India. Oct, 20-22, 2005.
4. International Society of Heart Research (India) and International Academy of Cardiovascular Sciences (India) Joint Annual meeting "Heart Research 2006". Chennai, 2006 India, Jan 12-15.