

## Faculty Profile



Name: Dr. Ernest David

Designation: Professor and Head

Specialization: Biochemistry/Physiology/Nanotechnology.

### Contact

Address : Office: Department of Biotechnology  
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**Membership:** Member in Society for Free Radical Research (SFRR)  
Member Indian Society for Comparative Animal Physiologists(ISCAP)

**Award:** YOUNG SCIENTIST FELLOWSHIP award from Tamilnadu State Council for  
Science & Technology for the year 1994.

**Professional Experience: Research : 26 Years Teaching: 24 Years**

**No of students awarded for research : PhDs':7 M.Phil.s':14**

### Research career and interest:

#### Inter disciplinary research programmes

- Scientific research with an objective to expand therapeutic resources within the natural/herbal medicine system in that which governs the clinical or physiological activity of various agents of herbal origin.
- Use of nano materials in Biology for therapeutic studies.
- Bioremediation studies of soil and water.

**Projects (Total projects: 02)**

- 1. Title:** A study on the oxidative stress during denervation disuse muscle atrophy: Effect of electrical stimulation and vitamin E supplementation.  
**Duration:** 2003-2006  
**Funding Agency:** University Grants Commission, New Delhi.  
**Amount Sanctioned:** Rs. 7, 20,760
- 2. Title:** A study on vitamins E & C antioxidant status and effect during *in-vivo* cigarette smoke and hyperglycemia induced oxidative stress with reference to alveolar macrophage apoptosis.  
**Duration:** 2009-2012.  
**Funding Agency:** University Grants Commission, New Delhi.  
**Amount Sanctioned:** Rs. 7, 83, 300.

**Research articles Publication:** Total articles published: **44**

**Recent research articles published**

- 1. Title:** Effect of *Solanum surattense* seed on the oxidative potential of cauda epididymal Spermatozoa.  
**Authors:** T.Thirumalai, **E. David**, S.Viviyana Therasa, EK.Elumalai.  
**Journal name:** Asian Pacific Journal of Tropical Biomedicine.  
**Year:** 2012.  
**Volume:** 2(1)  
**Pages:** 381-385.
- 2. Title:** Restorative effect of *Eclipta alba* in CCl<sub>4</sub>induced hepatotoxicity in male *albino* rats  
**Authors:** T.Thirumalai, **E. David**, S.Viviyana Therasa, EK.Elumalai.  
**Journal name:** Asian Pacific Journal of Tropical Disease.  
**Year:** 2011.  
**Volume:** 1  
**Pages:** 304-307.
- 3. Title:** Pharmacognosy of *Coccinia grandis*: A review.  
**Authors:** N. Tamilselvan, T.Thirumalai, EK.Elumalai , S.Balaji, **E. David**.  
**Journal name:** Asian Pacific Journal of Tropical Biomedicine.  
**Year:** 2011  
**Volume:** 1(1)  
**Pages:** S299-S302

- 4. Title:** Fenugreek restrained intestinal glucose absorption in fructose induced insulin resistance rats  
**Authors:** S.Viviyan Therasa, T. Thirumalai, E.K.Elumalai, **E.David**  
**Journal name:** *Journal of Pharmacy Research*  
**Year:** 2010  
**Volume:** 3(11)  
**Pages:** 2761-2762.
- 5. Title:** Green synthesis of silver nanoparticles using *Euphorbia hirta* L and their antifungal activities  
**Authors:** EK. Elumalai ,TNVKV. Prasad , Venkata Kambala, P.C.Nagajyothi , **E David**  
**Journal name:** *Archives of Applied Science Research.*  
**Year:** 2010  
**Volume:** 2(6)  
**Pages:** 76-81.
- 6. Title:** Hypoglycemic effect of *Brassica juncea* (seeds) on streptozotocin induced diabetic male *albino* rats  
**Authors:** T.Thirumalai, S.Viviyan Therasa, EK.Elumalai, **E. David.**  
**Journal name:** *Asian pacific journal of tropical biomedicine*  
**Year:** 2011  
**Volume:** 4  
**Pages:** 323-325.
- 7. Title:** A bird's eye view on Biogenic Silver nanoparticles and their applications.  
**Authors:** EK. Elumalai, TNVKV. Prasad, PC.Nagajyothi, **E David.**  
**Journal name:** *Der Chemica Sinica*  
**Year:** 2011  
**Volume:** 2 (2)  
**Pages:** 88-97.
- 8. Title:** Intense and exhaustive exercise induce oxidative stress in skeletal muscle  
**Authors:** T.Thirumalai, S.Viviyan Therasa, EK.Elumalai, **E. David.**  
**Journal name:** *Asian Pacific Journal of Tropical Disease*  
**Year:** 2011  
**Volume:** 1  
**Pages:** 63-66.

- 9. Title:** Hypolipidaemic and antioxidant effect of *Enicostemma littorale* Blume.  
**Authors:** T.Thirumalai, S.Viviyan Therasa, EK.Elumalai, **E. David**.  
**Journal name:** *Asian Pacific Journal of Tropical Biomedicine*.  
**Year:**2011  
**Volume:**5  
**Pages:** 381-385.
- 10. Title:** Hypolipidemic effect of *aegle marmelos* leaf extract in streptozotocin (STZ) induced diabetic male albino rats.  
**Authors:** K. Devi , A. Sivaraj , P.Vinoth kumar , K. Syed Zameer Ahmed, K.Sathiyaraj, B.Senthil kumar , **E. David** .  
**Journal name:** *International Journal of Pharm Tech Research*,  
**Year:** 2010  
**Volume:**2(1).  
**Pages:** 259-265.
- 11. Title:** *Trigonella foenum gracum* seed extract inhibit uptake of glucose across rat everted gut sacs in vitro,  
**Authors:** S. Viviyan Therasa, A. Sivaraj, C.Sivakumar, EK. Elumalai, T.Thirumalai, **E.David**.  
**Journal name:** *International journal of pharmtech research*  
**Year:** 2010  
**Volume:** 2(1)  
**Pages:** 359-362.
- 12. Title:** Evaluation of anti inflammatory activity of the leaf extract of *Wrightia tomentosa*. Roem & Schult.  
**Authors:** **E David**, EK.Elumalai, S.Viviyan Therasa, T.Thirumalai.  
**Journal name:** *Journal of Pharmacy Research*  
**Year:** 2010  
**Volume:** 3(2)  
**Pages:** 208-209.
- 13. Title:** Antipyretic effect the methanol: dichloromethane extract of *Wrightia tomentosa* leaves in rats  
**Authors:** **E David**, EK.Elumalai, C.Sivakumar, S.Viviyan Therasa, T.Thirumalai  
**Journal name:** *Journal of Pharmacy Research*  
**Year:** 2010  
**Volume:** 3(5)  
**Pages:** 978-979.

- 14. Title:** Evaluation of antifungal activity and phytochemical screening of *Solanum surattense* Seeds.  
**Authors:** E David, EK.Elumalai, C.Sivakumar, S.Viviyan Therasa, T.Thirumalai.  
**Journal name:** *Journal of Pharmacy Research*  
**Year:** 2010  
**Volume:** 3(4),  
**Pages:** 684-687.
- 15. Title:** Extracellular synthesis of silver nanoparticles using leaves of *Euphorbia hirta* and their antibacterial activities.  
**Authors:** EK Elumalai, T.N.V.K.V.Prasad, J. Hemachandran, S.Viviyan Therasa, T.Thirumalai, E.David.  
**Journal name:** *Journal of Pharmaceutical Sciences and Research*  
**Year:** 2010  
**Volume:** 2(9)  
**Pages:** 549-554.
- 16. Title:** Effect In vivo of Cigarette Smoke on Lipid Peroxidation and Antioxidant status in Male *albino* Mice.  
**Authors:** T.Thirumalai,S.Viviyan Therasa, EK.Elumalai, E. David  
**Journal name:** *Journal of Pharmaceutical Sciences and Research*  
**Year:** 2010  
**Volume:** 2(9)  
**Pages:** 579-582.
- 17. Title:** Ethnobotanical study of medicinal plants used by the local people in Vellore district, Tamilnadu, India.  
**Authors:** T.Thirumalai, EK.Elumalai, S. Viviyan Therasa, B.Senthilkumar, E David  
**Journal name:** Ethnobotanical Leaflets  
**Year:** 2010  
**Volume:** 14,  
**Pages:** 529-536.
- 18. Title:** *Eugenia jambolana* leaf extract inhibit uptake of glucose across rat everted gut sacs *in vitro*.  
**Authors:** E.David, S.Viviyan Therasa, J.Hemachandran, EK Elumalai, T.Thirumalai.  
**Journal name:** International Journal of Pharma. Researach & Development  
**Year:** 2010  
**Volume:** 2(9)  
**Pages:** 107 - 112.

- 19. Title:** Anti-*Candida* activity *in vitro* of leaves of *Mimosa pudica* Linn.  
**Authors:** E.K.Elumalai, P Sivamani ,C Sivakumar, S Viviyar Therasa, **E David**.  
**Journal name:** International Journal of Pharmagenesis  
**Year:** 2010  
**Volume:** 1(1)  
**Pages:** 91-95.
- 20. Title:** Hepatoprotective effect of *Enicostemma littorale blume* and *eclipta alba* during ethanol induced oxidative stress in albino rats.  
**Authors:** P.Baranisrinivasan, Ek .Elumalai, C. Sivakumar, S.Viviyar Therasa, **E.David**  
**Journal name:** International Journal of Pharmacology  
**Year:** 2009  
**Volume:** 5(4)  
**Pages:** 268-272.
- 21. Title:** Hypoglycemic effect of *Melia Azedarach* and *Eugenia jambolana* in streptozotocin (STZ) induced diabetic albino rats.  
**Authors:** Sivaraj A, Vinoth kumar P, **David E**, Devi K, and Senthil Kumar  
**Journal Name:** Indian Journal of Comp. Anim. Physiol  
**Year:** 2008  
**Volume:** 26(1).  
**Pages:** 75-79.
- 22. Title:** Bacterial etiology of Bovine mastitis in Vellore and Kanchipuram Districts of Tamilnadu.  
**Authors:** Sivakumar C, and **David E**  
**Journal Name:** Ind. J. Comp. Anim. Physiol.  
**Year:** 2007  
**Volume:** 25 (1):  
**Pages:** 45-49.

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