

Dr.Mrs.D.C.Mathangi

Professor of Physiology

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Contact No.: 9940635874

Qualification:

MSc in Medical Physiology, PhD Medical Physiology, PG Diploma in Bioinformatics & MBA in Hospital Management

Research Interest:

Neurophysiology, Neurotoxicology & Stress physiology (Lifestyle related Diseases)

PhD Students being guided: 4

Research Publications: 30

Conference Presentations: 24

Invited Speaker : 6

Trainings Underwent: 21

Research Summary

Papers	22	Cites/paper	4.50	h-index	6	AWCR	7.39
Citations	99	Cites/author	37.43	g-index	9	AWindex	2.72
Years	19	Papers/author	8.45	hc-index	3	AWCRpA	2.78
Cites/year	5.21	Authors/paper	2.82	hl-index	4	e-index	6.16
				hl-norm	4	hm-index	3.58

Publications:

INTERNATIONAL JOURNALS:

1. Finger digit ratio as a predictor of Motor skill in children. Mathangi K, **Mathangi DC**, Shyamala R. **J Clin Res Lett.** 2012 3(1): 24-26
2. Effect of increase in duration of REM sleep deprivation on lipid peroxidation. Thamaraiselvi K, **Mathangi DC**, Subhashini AS. **Int J Biol Med Res.** 2012 3(2): 1754-1759
3. Effect of alpha-ketoglutarate on neurobehavioral, Neurochemical and oxidative changes caused by sub-chronic cyanide poisoning in rats. **Mathangi DC**, Shyamala R, Vijayashree R, Rao KR, Ruckmani A, Vijayaraghavan R, Bhattacharya R. **Neurochemical Research** 2011 36(3): 540-548
4. Protective effect of diltiazem on cyanide-induced neurotoxicity in Wistar strain rats. **Mathangi DC** and Namasivayam A, **Food and Chemical Toxicology** 2004 Apr;42(4):605-8.
5. Effect of chronic protein restriction on motor co-ordination and brain neurotransmitters in albino rats. **Mathangi DC** and Namasivayam A, **Food and Chemical Toxicology** 2001, 39(10): 1039-1043.
6. Effect of cassava consumption on open field behaviour and hypothalamic neurotransmitters in albino rats, **Mathangi DC** and Namasivayam A, **Physiology and Behavior** 2000, 30: 89-93.
7. Long-term ingestion of cassava (tapioca) does not produce diabetes or pancreatitis in the rat model, **Mathangi DC**, Deepa R, Mohan V, Govindarajan M and Namasivayam A, **International Journal of Pancreatology** 2000, 27(3): 203-208.
8. Neurochemical and behavioural correlates in cassava-induced neurotoxicity in rats, **Mathangi DC** and Namasivayam A, **Neurotoxicity Research** 2000, 2: 29-35.
9. Effect of chronic sublethal cyanide administration on brain neurotransmitters and behavior in rats, **Mathangi DC** and Namasivayam A, **Journal of Occupational Health** 2000, 42: 88-90.
10. Effect of chronic cyanide intoxication on memory in albino rats, **Mathangi DC** and Namasivayam A, **Food and Chemical Toxicology** 2000, 38(1): 51-55.
11. Effect of cassava on motor co-ordination and neurotransmitter level in albino rats, **Mathangi DC**, Mohan V and Namasivayam A, **Food and Chemical Toxicology** 1999, 37(1): 57-60.
12. Effect of chronic malnutrition on hypothalamic neurotransmitters, **Mathangi DC** and Namasivayam A, **Medical Science Research** 1998, 26(7): 465-466.
13. Noise induced changes in free radical scavenging enzymes in blood and brain of albino rats, Aravind Kumar N, **Mathangi DC** and Namasivayam A, **Medical Science Research.** 1998, 26(12): 11-812.

NATIONAL JOURNALS

1. Effect of REM sleep deprivation on the antioxidant status in the brain of Wistar rats. Mathangi DC, Shyamala R, Subhashini AS. *Annals of Neuroscience*. 2012, 19(4):161-164
2. Changes in Maternal Lipid Peroxidation Before and Immediately After Delivery" (Article No. E-275/2011). Jessy John, **Mathangi DC**, Dilara K, Subhashini AS and Jaya V. *Journal of Indian Medical Association*. 2012, 110: 570-572.
3. Behavioral analysis of functional recovery after sciatic nerve compression in the albino rats. Anand P, **Mathangi DC**, Mathew Jeraud, Namasivayam A and Suresh Babu R. *Annals of Neuroscience* 2011 18(2): 37-43.
4. Changes in Lipid peroxidation during various trimesters of pregnancy. Jessy John, **Mathangi DC**, Dilara K, Subhashini AS, Jaya V. *Biomedicine* 2011 31(4): 513-516
5. Brain death & organ transplantation – review article. Ahamed Basha, Khaleel Hussain, **Mathangi DC**, Prince JS, Shyamala R. *Bulletin of Association of Physiologists of Tamil Nadu* 2009 3(1): 7-9
6. Powerpoint presentations – are they powerful or pointless? Muthu Parathibha, Priscilla J, **Mathangi DC**, Subhashini AS, shyamala R. *Bulletin of Association of Physiologists of Tamil Nadu* 2009 3(1): 18-20
7. Editorial: William Einthovan. **Mathangi DC**, *Bulletin of Association of Physiologists of Tamil nadu* 2008; 2(1): 1-2
8. A study on Plasma fibrinogen levels in Post menopausal Women. Archana P K, Priscilla J, **Mathangi DC**, Ganesh M., Subhashini AS, *Bulletin of Association of Physiologists of Tamil nadu* 2008; 2(1): 17-19
9. Editorial: Ivan petrovich Pavlov. **Mathangi DC**, *Bulletin of Association of Physiologists of Tamil nadu* 2007; 1(1): 1-2
10. Fibrinogen as a coronary artery disease risk factor in younger age group (25-45 years) in sub-urban Chennai. Sheela Ravinder S, Priscilla J, Jayachandran P, **Mathangi DC** and AS Subhashini. *Bulletin of Association of Physiologists of Tamil nadu* 2007; 1(1): 25-27
11. Assessment of oxidative stress in labour – both vaginal delivery and caesarean section. Chitra M, Paramita B, Jessy J, Priscilla Johnson, **Mathangi DC**, Jaya V and Shyamala R. *Indian Journal of Physiology and Pharmacology* 2005; 49(5) Suppl. 134.
12. Screening of antioxidant potential of Solanacea species by in-vitro methods. Prathibha KM, Sunil AG, Kesavanarayanan, **Mathangi DC**, Shyamala R, Hannah R Vasanthi. *Indian Journal of Physiology and Pharmacology* 2005; 49(5) Suppl. 95.
13. Assessment of cardiovascular autonomic functions in healthy postmenopausal women. Semmal MSM, Priscilla J, **Mathangi DC**, Rao VM, Subhashini A, Shyamala R, *Indian Journal of Physiology and Pharmacology* 2005; 49(5) Suppl. 149.
14. Plasma fibrinogen levels during different phases of the menstrual cycle. Ganesh M, Priscilla J, **Mathangi DC**, Rao VM, Subhashini A, Shyamala R, *Indian Journal of Physiology and Pharmacology* 2005; 49(5) Suppl. 133.

15. Free radical changes in methanol toxicity. Paula EM, **Mathangi DC** and Namasivayam A. Indian Journal of Physiology and Pharmacology 2003,47(2):207-211
16. Activated Charcoal–An antidote for Methanol poisoning, **Mathangi DC**, Sheela Devi R and Namasivayam A, Journal of Indian Medical Association 1995,93 (4):136-37.
17. Activated Charcoal – An effective first aid in mass methanol poisoning, **Mathangi DC**, Sheela Devi R and Namasivayam A, Biomedicine 1994, 14(1): 30-32.

Professional Activities

- Life member of Society of Toxicology of India
- Life member of Assoc. of Physiologists & Pharmacologists of India
- Life member of Society for Free Radical Research
- Life member of Indian Association of Biomedical Scientists
Joint Secretary of Indian Association of Biomedical Scientist
Member Editorial Board of the official Journal of the association (Biomedicine)
- Life Member of the Association of Physiologists of Tamil Nadu
Former Editor, Official Journal of Association of Physiologists of Tamil Nadu
- Member Editorial Board of official news letter of the Institute (Chettinad Health City)

Honors

- **Raine Visiting Professorship** at University of Western Australia, Perth (2012)
- **Prof.A.Namasivayam award** for Eminent Physiologist (Mid level scientist) from the Indian Association of Biomedical Scientists (2011)
- Visited University of Western Australia as **Invited Scientist** (2010)
- Awarded the Tamil Nadu Young Women Scientist award by **Government of Tamil nadu** (2009)
- Biography included in the **Marquis World Who's Who** 2009
- Recipient of **SIRI Research award** for best work in Stress Physiology from Indian Association of Biomedical Scientists (2008)
- Best oral presentation award at the First Annual conference of the Association of Physiologists of Tamil Nadu (2007)
- Best oral presentation award at Annual conference of the Physiological society of India, (2005)
- Recipient of **Young Scientist award** at 86th session of **Indian Science Congress** association at Madras, (1999)
- Awarded **Dr.Padmanaban prize** for best paper in physiology at the 17th Annual conference of Indian Assoc. of Biomedical Scientists at Pondicherry, (1996)

- Adjudged II **best oral presentation** at 18th Annual conference of Indian Assoc. of Biomedical Scientists at Delhi, (1997)
- Awarded the **Research Associateship** by the CSIR [Council for Scientific and Industrial Research], (1999)
- Awarded the **Senior Research Fellowship** by the CSIR [Council for Scientific and Industrial Research], (1996)
- Awarded the **Junior Research Fellowship** by the Lady Tata Memorial Trust, (1995)
- **University First Rank** in MSc. Physiology, (1993)