

**Dr. S. Lakshmi, Department of Mathematics**

**List of Papers Presented and Conferences attended**

1. Ganesan. M.S. and Lakshmi, S. “Analysis – an application to Human Stress  $(0, t]$  due to anger / fear”, Proceedings of the **International Conference** on analysis and its applications, Dec- 2000, 73 - 84
2. Ganesan. M.S. and Lakshmi, S. “A stochastic model in the study of cumulative effects of Human stress”, Proceedings of the **National Seminar** on Applications of Mathematics at St. Joseph’s college, Trichy – 17 -19 Feb – 2000, 137- 146
3. Lakshmi , S. “ A stochastic model for the cost adaptation - Proceedings of the **International Conference** in O.R”, A special volume in Annals of O.R. Dec – 2002
4. Lakshmi.S“ The Mathematical Model in Philosophy”, U.G.C. Sponsored **National seminar** on development in Mathematical Applications, K.N.Govt.Arts College, Thanjavur.April 8-9, 2005.
5. S.Uma & S.Lakshmi,” The dynamic effects of the Hormones CRH, ACTH, and Cortisol in HPA axis regulation,” **State Level Seminar** on Computer Oriented Mathematical Techniques , Shrimati Indira Gandni College,Trichy,2007.
6. Lakshmi.S and Senthilkumar.P “ Stochastic model for Cortisol secretion due to human stress by two sources, **International seminar** I.I.T , Chennai 2008.
7. Lakshmi.S and Geetha .T, **International seminar** I.I.T , Chennai 2008.
8. A.Rameshkumar and S.Lakshmi , “Mathematical model for the effects of stress on the parts of the brain”, **International** conference on “ Advances in Mathematics : Historical development and Engineering applications”, G.B.Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand, Dec.19 – 22 , 2007.
9. S.Shunmugapriya and S.Lakshmi, “ Mathematical model for the neural control of Dopamine in ACTH secretion”, **National Conference** on Recent developments in Mathematics and it’s Applications, Govt.Arts College for Women, Pudukkottai, 28<sup>th</sup> & 29<sup>th</sup> March 2008.
10. R.Punithavathi & S.Lakshmi, “ Stochastic model for the transient behavior of Pepsin secretion of the Human Being”, **National Conference** on Recent developments in

Mathematics and it's Applications, Govt.Arts College for Women, Pudukkottai, 28<sup>th</sup> & 29<sup>th</sup> March 2008.

11. A.Venkatesh & S.Lakshmi, “ A Weibull Inverse power law model for the increase of Cysteinyl- DA due to stress”, **National Conference** on Recent developments in Mathematics and it's Applications, Govt.Arts College for Women, Pudukkottai, 28<sup>th</sup> & 29<sup>th</sup> March 2008.
12. A.Venkatesh and S.Lakshmi, “ A Stochastic model for the increase of Dopamine due to stress”, **International** conference on “ Advances in Mathematics : Historical development and Engineering applications”, G.B.Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand, Dec.19 – 22 , 2007.
13. P.Senthilkumar and S.Lakshmi, “Stochastic model for cost of adaptation due to acute stress , memory attention and cortisol”, **International** conference on “ Advances in Mathematics : Historical development and Engineering applications”, G.B.Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand, Dec.19 – 22 , 2007.
14. R.Punithavathi and S.Lakshmi, “The Transient behaviour of the model for Pepsin secretion ”, **“International conference on Advances in Mathematics : Historical development and Engineering applications”**, G.B.Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand, Dec.19 – 22 , 2007.
15. Uma.S. and S.Lakshmi, “A Stochastic model for the meantime until the cumulative cortisol secretion exceeding the threshold level to the degree of sleep disturbances”, **International** conference on “ Advances in Mathematics : Historical development and Engineering applications”, G.B.Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand, Dec.19 – 22 , 2007.
16. S.Shunmugapriya and S.Lakshmi, “ Stochastic model or the neural regulation of ACTH secretion in man ”, **“International conference on Advances in Mathematics : Historical development and Engineering applications”**, G.B.Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand, Dec.19 – 22 , 2007.
17. T.Geetha and S.Lakshmi, “ Stochastic stability of Growth collapse processes for amino acid induced to prevent Hypothermia during Anesthesia ”, **“ International conference on Advances in Mathematics : Historical development and Engineering applications”**,

G.B.Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand, Dec.19 – 22 , 2007.

18. T.Geetha and S.Lakshmi, “Stochastic model for Adrenaline secretion due to human stress and self recovery”, Computational Mathematical and Statistical Methods , XIV **International Conference** , IIT, Chennai 2007.
19. P.Senthilkumar & S.Lakshmi, “ Stochastic Model for the Cost of Adaptation due to Acute Stress, in terms of Cortisol ”, **National Conference on Recent developments in Mathematics and it’s Applications**, Govt.Arts College for Women, Pudukkottai, 28<sup>th</sup> & 29<sup>th</sup> March 2008.
20. T.Geetha and S.Lakshmi, “Cumulative Damage model with Quick recoupmnt at failure due to gender differences in diurnal growth hormone and Epinephrine values during ambulation”, **International Conference on Mathematics and Computer Science** ,Jan5-6,IIT, Chennai 2009.
21. A.Venkatesh and S.Lakshmi, “A Cumulative Damage Model for Stress- Induced increase in Dopamine concentration in Brain Regions”, **International Conference on Mathematical Methods and Computation**, 24-25, July 2009.
22. S. Lakshmi and S. Uma, “A Stochastic model for the mean level of Plasma Nicotine subject to high nicotine cigarette smoking”, **International Conference on Mathematical Methods and Computation**, 24-25, July 2009.
23. A. Ramesh Kumar and S.Lakshmi, “ Mathematical modelling to the analysis MF Stress Wave Propagation using a Discrete Particle approach”, **International Conference on Mathematical Methods and Computation**, 24-25, July 2009.
24. I.Christy Raj and S.Lakshmi, “Mathematical model in Bio Physical aspects of cancer – Electromagnetic mechanism”, **International Conference on Mathematical Methods and Computation**, 24-25, July 2009.
25. P.Senthil Kumar and S.Lakshmi, “Stochastic model for Carousel System Performance in Cortisol”, **International Conference on Mathematical Methods and Computation**, 24-25, July 2009.

26. S.Lakshmi and R.Punithavathi, "A note on stochastic survival models for involvement of the Histaminergic System in Renal Sympathetic and Cardiovascular responses", **International Conference on Mathematical Methods and Computation, 24-25, July 2009.**

27. S.Shunmughapriya and S.Lakshmi, "A Stochastic model of Bathtub Failure Rate for Adreno Cortical activity in the Post-natal Period", **International Conference on Mathematical Methods and Computation, 24-25, July 2009.**

28. S.Pamela and S.Lakshmi "Hazard Rate Average of Function using Stock Models",**International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**

29. P.Senthil Kumar and S.Lakshmi "Stochastic Model for the Cost of Adoption due to Acute Stress, in terms of Cortisol", **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**

30. A.Venkatesh and S.Lakshmi " A Bivariate Survival Model for the effect of Stress on Dopamine Levels", **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**

31. S.Lakshmi and T.Geetha, 'Mathematical Model for the secretion of Epinephrine Level during the period of Overtime", **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**

32. S.Lakshmi and R.Punithavathi, "A New Shock Model Locomotor Activity due to Lacking Histamine H1 Receptor", **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**

33. S.Shanmugha Priya and S.Lakshmi, " Time Course of HPA axis during treatment with Reboxetine and Mirtazapine by Mixed of Two Weibull Distribution", **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**

34. S.Uma and S.Lakshmi. " A Stochastic Model to find Adaptation Time of Stress subject to the changes in Epinephrine", **International Conference on Advances in**

**Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**

35. S.Lakshmi and A.Ramesh Kumar, “ The Mathematical Model for the Role of 5 – HT 1A Receptors in the Behavioural Responses Associated with Innate Fear”, **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**
36. I.Christy Raj and S.Lakshmi, “Weibull Inverse Power Law Model for Stress induced Dopamine”, B.Geetharani and S.Lakshmi, “Life Distributions”, Narosa Publication House, New Delhi, 2010. **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**
37. K.Anbu and S.Lakshmi, “ Impact of Ekalux (Aminophos, 25%) on the Blood Serum Enzyme of Fresh Water Fish Oreochromis Mossabicus(Peters)”, **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**
38. S.Lakshmi and P.Gomathisundari, “ A Mathematical Model in Physiological Behavioural Science”, **International Conference on Advances in Mathematics:Scientific Developments and Engineering Applications, 31<sup>st</sup> AUG.2009, Sep 1<sup>st</sup>2009.**
39. S.Lakshmi and M.Senbagavalli, 'Mathematical model for finding the steady state and Transient behavior of the secretion of Vasopressin in Hypertension cases', **International Conference on Mathematics and Mathematical Sciences,7-8.July2012.**
40. S.Lakshmi and M.Gayathri, Mathematical model for the secretion of oxytocin, a mediator of Antistress', **International Conference on Mathematics and Mathematical Sciences,7-8.July2012.**
41. S.Lakshmi and A.Manickam, A Mathematical MDDI model for differential orderliness of the GH release process in human and animals', **International Conference on Mathematics and Mathematical Sciences,7-8.July2012.**
42. S.Lakshmi,N.Saivaraju and Kavitha.N., Mathematical model for finding the secretion of salivary  $\alpha$ -amylase and cortisol in children with asthma and healthy children and also with chronic stress', **International Conference on Mathematics and Mathematical Sciences,7-8.July2012.**

43. S.Lakshmi and M.Agalya, The Mathematical model for the secretion of Luteinizing Hormone by using proportional hazard model', **International Journal of Mathematical Sciences,Vol-11,No.3-4, July-Dec.2012.**
44. R.Balakumar and S.Lakshmi, 'Mathematical modeling of aldosterone cost effect analysis due to stress', **International Conference on Mathematics and Mathematical Sciences,7-8.July2012.**