



APPENDIX

PUBLICATIONS

Baxi, D.B., Singh,P.K., Doshi,A.A., Arya,S. Mukherjee, R. and Ramachandran A.V. *Medicago sativa* leaf extract supplementation corrects diabetes induced dyslipidemia, oxidative stress and hepatic renal functions and exerts antihyperglycaemic action as effective as metformin Annals of Biological Research. 2010; 1 (3).

Singh, P.K., **Baxi, D.B.**, Banerjee S and Ramachandran, A.V. Therapy with methanolic extract of pterocarpus marsupium and ocimum sanctum reverses dyslipidemia and oxidative stress induced by type I diabetes. Accepted for publication in Experimental and Toxicologic Pathology (ETP-D-10-00220) on 25th October 2010.

Prem Kumar Singh , **Darshee Bhushan Baxi** , Kavita Harish Potnis ,Raktim Mukherjee , RamachandranAV Supplementation with a polyherbal extract and melatonin together with exercise effectively reverses diabetic glycaemic status and carbohydrate metabolism and insulin level. Int J Biol Med Res. 2010; 1(3): 54 - 60.

Prem Kumar Singh , **Darshee Bhushan Baxi** , Kavita Harish Potnis ,Raktim Mukherjee , Ramachandran A. V .Supplementation with a polyherbal extract and melatonin together with exercise effectively corrects dyslipidemia but with some incompetence in reversing antioxidant status and hepatic and renal dysfunction Int J Biol Med Res. 2010; 1(4).

Singh, P.K., **Baxi, D.B.**, Mukherjee, R., and Ramachandran, A.V. Evaluation on the efficacy of a Poly herbal supplement along with exercise in alleviating Dyslipidemia, Oxidative stress and hepatic and renal toxicity associated with Type-1 diabetes. Journal of Herbal Medicine and Toxicology 2010; 4 (1): 207-215.

Singh, P.K., **Baxi, D.B.**, Mukherjee, R., Selvaraj, J and Ramachandran, A.V. Diabetic amelioration by poly herbal supplement and exercise: Studies on type – I diabetic rat model. Journal of Herbal Medicine and Toxicology 2010; 4 (1): 217-226.

Mukherjee, R., Desai, F., Singh,S.,Gajaria,T., Singh,P.K.,**Baxi,D.B.**, Sharma, D.,Bhatnagar,M. and Ramachandran,A.V. Melatonin protects against alteration in hippocampal cholinergic system, trace metals and oxidative stress induced by gestational and lactational exposure to cadmium. EXCLI Journal 2010;9:119-132. 8

Mukherjee R, Banerjee S, Joshi R N, Singh P.K, **Baxi D.B** and Ramachandran A.V Cardioprotective role of a combination of melatonin and alpha lipoic acid against cadmium induced oxidative damage. Accepted for publication on 23rd October 2010 in Cardiovascular Toxicology (FCT-D-10-00994).

Baxi D.B., Singh P.K., Vachhrajani K.D and Ramachandran A.V* " Melatonin supplementation therapy (MST) as a potent alternative to ERT in alleviating altered insulin sensitivity, glucoregulation and dyslipidemia: Dose dependent study in estrogen deficient ovariectomized rats" Singapore Medical Journal, Under review (SINGAPOREMEDJ-S-10-00840).

Baxi D.B., Singh P.K., Vachhrajani K.D and Ramachandran A.V*. "Diabetic glucose dyshomeostasis and dyslipidemia in estrogen deficient rats: melatonin supplementation more potent than ERT in alleviating the symptoms". Under review in Diabetologia Croatica.

Baxi D.B., Singh P.K., Vachhrajani K.D and Ramachandran A.V*. "Diabetic oxidative stress and hepatic and renal dysfunctioning in estrogen deficient rats: Relatively greater efficacy of melatonin over ERT in remediation". Under review in Acta Physiologica Hungarica (No: 46/10).

Baxi D.B., Singh P.K., Vachhrajani K.D and Ramachandran A.V*. "Melatonin supplementation is more effective than ERT or even a combination of the two in ameliorating ovariectomy induced tissue oxidative stress, hepatic and renal dysfunctioning and serum Corticosterone level" Under review in Cell Biochemistry and Function (CBF-10-0162).

Singh, P.K., **Baxi, D.B.**, Selvaraj, J and Ramachandran, A.V. "methanolic extract of pterocarpus marsupium and ocimum sanctum effectively ameliorates type I diabetes induced alterations in glucose tolerance, insulin response, carbohydrate metabolism and glut - 4 expression" Under review Pharmaceutical Biology (NPHB-2010-0754).

Singh, P.K., **Baxi, D.B.**, Doshi, A.A., Mukherjee, R and Ramachandran, A.V. Antihyperglycaemic and Renoprotective effect of *Boerhaavia diffusa* L. in experimental diabetic rats. Under review in Journal of Food Biochemistry.

PRESENTATIONS

- **Baxi D**, Shilu M, Singh PK and Vachhrajani KD Systemic toxicity of heterogeneous industrial toxicant mixture following low dose sub acute exposure in rats 5th World Congress on Cellular and Molecular Biology, Indore, India, November 2009. Symposium: Cellular Toxicology and Therapy
- Singh, P. K., **Baxi, D.**, Morya, K., Mukherjee, R., Banerjee, S., and Ramachandran, A.V. Polyherbal therapy together with exercise is more potent in reversing diabetes induced carbohydrate and lipid dysregulation. Paper presented at the International conference on novel updates in reproductive biology and comparative endocrinology and The 27th annual meeting of the society for Reproductive Biology and comparative endocrinology. (SRBCE-XXVII). Hyderabad January 19-21, 2009.
- **Baxi. D.B**, Singh .P.K, Morya.K, Banerjee.S, Vachhrajani.K.D, and Ramachandran A.V. Dosage dependent differential effect of melatonin on diabetes induced glucose dysregulation and oxidative stress parameters. Paper presented at the International conference on novel updates in reproductive biology and comparative endocrinology and The 27th annual meeting of the society for Reproductive Biology and comparative endocrinology. (SRBCE-XXVII). Hyderabad January 19-21, 2009
- **Baxi D.B**, Patel A, Shah A, Singh P.K, Morya. K, Vachhrajani.K.D. and Ramachandran A.V. Melatonin as possible replacement therapy for combating oxidative stress in estrogen deficiency. Paper presented at International conference on biomedical and genomic research. Ahmedabad, January 29-31, 2009.
- Singh, P. K., Potnis, K., Naik, R., Sathe, A., **Baxi, D.**, Morya, K., Mukherjee, R., Banerjee, S., and Ramachandran, A.V. Polyherbal extract and exercise regimens for controlling glycemia and oxidative stress associated with Type I Diabetes. Paper presented at International conference on biomedical and genomic research. Ahmedabad, January 29-31, 2009.

WORKSHOPS:

- Hands on training at National Workshop on "Mammalian cell culture: A laboratory training course" from June 16th to 19th 2010 at B.V.Patel Perd Institute Ahmedabad.
- Hands on training at National Workshop on "Techniques in Molecular and Cellular Endocrinology" from 4th to 13th January 2010 at Dr.AIM PGIBMS Chennai.
- Molecular Biology: A Laboratory Training Course, Workshop from 6th to 10th July at B.V.Patel Perd Institute Ahmedabad.