

### **Thesis Related Publications/Patents**

1. Novel drug delivery systems for the effective treatment of hypertension (To be applied for Indian patent).

### **Publications during PhD tenure**

1. Deshpande, P.B., Dandagi, P.M., Udupa, N., Shavi, G., Jain, S.S., Surenali, S., 2010. Controlled release polymeric ocular delivery of acyclovir. *Pharm Dev Technol.* 15, 369-378.
2. Shavi, G.V., Doijad, R.C., Deshpande, P.B., Manvi, F.V., Reddy, M.S., Udupa, N., Omprakash, R., Dheerendra, K., 2010. Erythrocytes as carrier for prednisolone: in vitro and in vivo evaluation. *Pak J Pharm Sci.* 23, 194-200.
3. Musmade, P.B., Deshpande, P.B., Dingle, S.J., Talole, K.B., Pathak, S.M., Adiga, M.N.S., Bhat, M.K., Udupa, N., Bairy, K.L., 2010. High Performance Liquid Chromatographic method for the determination of clobetasol in rat plasma and its application to skin penetration. *J Bioanal Biomed.* 2, 001-007.
4. Kumar, A.G., Averineni, R.K., Deshpande, P.B., Shavi, G., Reddy, M.S., Udupa, N., 2010. Novel drug delivery systems: A Microemulsion based approach. *Pharma Times.* 42, 69-73.
5. Shavi, G.V., Deshpande, P.B., Nayak, U.Y., Kumar, A.G., Kumar, A.R., Reddy, M.S., Udupa, N., Rao, K.B., 2010. Applications of nanotechnology in health care: Perspectives and opportunities. *Int J Green Nanotechnol Biomed.* 2, 119-133.
6. Shavi, G.V., Kumar, A.R., Karthik, A., Naseer, M., Aravind, G., Praful, B.D., Reddy, M.S., Udupa, N., 2010. Novel paclitaxel nanoparticles: Development, in vitro anti-tumor activity in BT-549 cells and in vivo evaluation, *J Control Release.* 148, 119-121. (As a conference proceedings)
7. Musmade, P.B., Talole, K.B., Deshpande, P.B., Karthik, A., Pathak, S.M., Pandey, S., Udupa, N., 2011. Novel Liquid Chromatographic method for simultaneous estimation of pioglitazone and glimepiride in rat plasma by solid phase extraction: application to preclinical pharmacokinetic studies. *Arzneimittelforschung.* 61, 23-31.
8. Shavi, G.V., Nayak, U.Y., Reddy, M.S., Karthik, A., Deshpande, P.B., Kumar, A.R., Udupa, N., 2011. Sustained release optimized formulation of anastrozole-

- loaded chitosan microspheres: in vitro and in vivo evaluation, *J Mater Sci: Mater Med.* 22, 865-878.
9. Pateriya, S., Janodia, M.D., Deshpande, P.B., Ligade, V.S., Talole, K.B., Kulshrestha, T., Kamariya, Y., Musmade, P.B., Udupa, N., 2011. Regulatory aspects of pharmaceuticals' exports in Gulf cooperation council countries. *J Young Pharm.* 3, 155-162.
  10. Deshpande, P.B., Kumar, A.G., Shavi, G.V., Averineni, R.K., Arumugam, K., Reddy, M.S., Udupa, N., 2011. Supercritical fluid technology: Concepts and pharmaceutical applications. *PDA J Pharm Sci Technol.* 65, 333-344.
  11. Kumar, A. R., Shavi, G.V., Ranjan, O.P., Deshpande, P. B., Kumar, A.R., Nayak, U.Y., Reddy, M.S., Udupa, N., 2011. Formulation of gliclazide encapsulated chitosan nanoparticles: In vitro and in vivo evaluation. Royal Society of Chemistry as a part of NanoFormulation 2011.
  12. Averineni, R.K., Shavi, G.V., Kumar, A.G., Deshpande, P.B., Arumugam, K., Maliyakkal, M., Reddy, M.S., Udupa, N., 2011. PLGA 50:50 paclitaxel nanoparticles: Development, in vitro anti-tumor activity in BT-549 cells and in vivo evaluation. *Bull. Mater. Sci.* 35, 319-326.
  13. Deshpande, P.B., Reddy, M.S., Janodia, M.D., Ligade, V.S., Udupa, N., Musmade, P.B., Sreedhar, D., 2011. Nuances of pharmaceutical nanotechnology. *Indian J Pharm Sci.* (Under Revision).

#### **Thesis Related Conference Presentations**

1. Deshpande, P B., Kumar, G.A., Musmade, P.B., Kumar, A.R., Reddy, M.S., Udupa, N. Development and validation of a RP-HPLC method for the determination of lercanidipine in novel proliposomal formulation. 63<sup>rd</sup> Indian Pharmaceutical Congress, 16<sup>th</sup> – 18<sup>th</sup> December 2011, Bengaluru, India.
2. Deshpande, P.B., Kumar, A.G. Averineni, R., Musmade, P.B., Shavi, G.V., Mutalik, S.S., Reddy, M.S., Udupa, N. 2012. Formulation development of extended release lercanidipine loaded nanoproliosomes: in vitro and in situ assessment. NanoFormulation2012, 28<sup>th</sup> May - 01<sup>st</sup> June, 2012, Hotel Fira Palace, Barcelona, Spain.

3. Deshpande, P.B., Gurram, A.K., Averineni, R.K., Shavi, G.V., Reddy, M.S., Udupa N. Influence of cryoprotectants on the properties of lercanidipine nanoproliposomes. 12<sup>th</sup> International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems (Controlled Release Society, India Chapter), 9<sup>th</sup> - 10<sup>th</sup> February 2011, J. W. Marriott Hotels, Mumbai, India.

### **Achievements**

1. Bagged “NanoFormulation2012 Travel Bursary” (Supported by a grant from the European Commission under the 7<sup>th</sup> Research Framework Programme) for attending and presenting research paper at NanoFormulation2012 held at Barcelona, Spain from 28<sup>th</sup> May to 01 June, 2012.
2. Received partial travel support from Centre for International Co-operation in Science (CICS), Govt. of India for attending and presenting research paper at NanoFormulation2012 held at Barcelona, Spain from 28<sup>th</sup> May to 01 June, 2012.
3. Received both DST and CSIR “Young scientist foreign travel grant” award for attending European Science Foundation Conference: Nanomedicine: Reality Now and Soon held from 23-28 October 2010 at Hotel Eden Roc, Sant Feliu de Guixols, Spain.