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## Area of Expertise

My research is focused on enhancing therapeutic efficacy in cancer. I have collaborated with Dr. Andras Lacko on the development of a lipoprotein-based targeted drug delivery vehicle for cancer chemotherapeutic agents. Also, I collaborate with Dr. Riyaz Basha in investigating the strategies to induce therapeutic efficacy of the chemotherapeutic agents used in standard care. We are investigating the effect of combination therapy of standard chemotherapeutic agents with clotom and Mithramycin for Ewing sarcoma, medulloblastoma, and neuroblastoma cell lines.

## Qualifications

PhD in Chemistry, University of Kerala

MS in Applied Chemistry, Cochin University of Science and Technology

BS in Chemistry, University of Kerala

## Recent Publications

### **An institutional coordinated plan for effective partnership s to achieve health equity and biomedical workforce diversity**

Vishwanatha, J. K., Basha, R. M., Nair, M. P. & Jones, H., 1 Feb 2019, In : Ethnicity and Disease. 29, p. 129-134 6 p.

### **Enhanced solubility and functionality of valrubicin (AD-32) against cancer cells upon encapsulation into biocompatible nanoparticles**

Sabnis, N., Nair, M. P., Israel, M., McConathy, W. J. & Lacko, A. G., 5 Dec 2012, In : International Journal of Nanomedicine. 7, p. 975-983 9 p.

### **Validation of the reconstituted high-density lipoprotein (rHDL) drug delivery platform using dilauryl fluorescein (DLF)**

McConathy, W. J., Paranjape, S., Mooberry, L., Buttreddy, S., Nair, M. P. & Lacko, A. G., 1 Apr 2011, In : Drug Delivery and Translational Research. 1, 2, p. 113-120 8 p.

### **Targeted delivery of small interfering RNA using reconstituted high-density lipoprotein nanoparticles**

Shahzad, M. M. K., Mangala, L. S., Han, H. D., Lu, C., Bottsford-Miller, J., Nishimura, M., Mora, E. M., Lee, J. W., Stone, R. L., Pecot, C. V., Thanappapasr, D., Roh, J. W., Gaur, P., Nair, M. P., Park, Y. Y., Sabnis, N., Deavers, M. T., Lee, J. S., Ellis, L. M., Lopez-Berestei, G. & 4 others, McConathy, W. J., Prokai, L., Lacko, A. G. & Sood, A. K., 1 Jan 2011, In : Neoplasia. 13, 4, p. 309-319 11 p.

### **Receptor mediated uptake of paclitaxel from a synthetic high density lipoprotein nanocarrier**

Mooberry, L. K., Nair, M. P., Paranjape, S., McConathy, W. J. & Lacko, A. G., 1 Jan 2010, In : Journal of Drug Targeting. 18, 1, p. 53-58 6 p.

### **Binding of 8-anilino-1-naphthalenesulfonate to lecithin:cholesterol acyltransferase studied by fluorescence techniques**

Sarkar, P., Bharill, S., Gryczynski, I., Gryczynski, Z., Nair, M. P. & Lacko, A. G., 24 Jul 2008, In : Journal of Photochemistry and Photobiology B: Biology. 92, 1, p. 19-23 5 p.

### **Evaluation of synthetic/reconstituted high-density lipoproteins as delivery vehicles for paclitaxel**

McConathy, W. J., Nair, M. P., Paranjape, S., Mooberry, L. & Lacko, A. G., 1 Feb 2008, In : Anti-Cancer Drugs. 19, 2, p. 183-188 6 p.

### **Prospects and challenges of the development of lipoprotein-based formulations for anti-cancer drugs**

Lacko, A. G., Nair, M. P., Prokai, L. & McConathy, W. J., 1 Nov 2007, In : Expert Opinion on Drug Delivery. 4, 6, p. 665-675 11 p.

**Doxorubicin transport by RALBP1 and ABCG2 in lung and breast cancer**

Singhal, S. S., Singhal, J., Nair, M. P., Lacko, A. G., Awasthi, Y. C. & Awasthi, S., 1 Mar 2007, In : International Journal of Oncology. 30, 3, p. 717-725 9 p.

**Trojan horse meets magic bullet to spawn a novel, highly effective drug delivery model**

Lacko, A. G., Nair, M. P., Paranjape, S., Mooberry, L. & McConathy, W. J., 1 Jun 2006, In : Chemotherapy. 52, 4, p. 171-173 3 p.