

LIST OF APPENDICES

APPENDIX A:

List of Research Publications

APPENDIX B:

List of Oral and Poster Presentation

List of Publications (Related to thesis work)

1. **Nahak P¹**, Nag K², Hillier A², Devraj R², Thompson DW³, Manna K¹, Makino K⁴, Ohshima H⁴, Nakahara H⁵, Shibata O⁵, Panda AK^{1*}, Effect of serum, cholesterol and low density lipoprotein on the functionality and structure of lung surfactant films. *J. Oleo Sci.* **2014**; 63 (12) : 1333 – 1349.
2. **Nahak, P.**; Karmakar, G.; Roy, B.; Guha, P.; Sapkota, M.; Koirala, S.; Chang, C.-H.; Panda, A. K., Physicochemical studies on local anaesthetic loaded second generation nanolipid carriers. *RSC Advances* **2015**, 5 (33), 26061-26070.
3. **Nahak, P.**; Karmakar, G.; Chettri, P.; Roy, B.; Guha, P.; Besra, S. E.; Soren, A.; Bykov, A. G.; Akentiev, A. V.; Noskov, B. A.; Panda, A. K., Influence of Lipid Core Material on Physicochemical Characteristics of an Ursolic Acid-Loaded Nanostructured Lipid Carrier: An Attempt To Enhance Anticancer Activity. *Langmuir* **2016**.
4. **Nahak, P.**; Karmakar, G.; Chettri, P.; Roy, B.; Guha, P.; Besra, S. E.; Soren, A.; Bykov, A. G.; Akentiev, A. V.; Noskov, B. A.; Panda, A. K., Oral administration of orcinol glucoside loaded polymer – lipid hybrid nanoparticles for gastrointestinal tract cancer targeting and improved *in vitro* cytotoxicity against GIT cell lines (prepared to communicate).

List of Publications (Not related to thesis work)

1. Ravi Devraj, Kaushik Nag, **Prasant Nahak**, Kausik Manna, Mauricia Fritzen-Garcia, David W. Thompson, Kimiko Makino, Hiroyuki Ohshima, Hiromichi Nakahara, Osamu Shibata, Amiya Kumar Panda., *Colloid and Polymer Sci.* **2014**, 292, (11), 2765–2774.
2. Guha, P.; Roy, B.; Karmakar, G.; **Nahak, P.**; Koirala, S.; Sapkota, M.; Misono, T.; Torigoe, K.; Panda, A. K., Ion-Pair Amphiphile: A Neoteric Substitute That Modulates the Physicochemical Properties of Biomimetic Membranes. *The Journal of Physical Chemistry B* **2015**, 119 (11), 4251-4262.
3. Sapkota, M.; Karmakar, G.; **Nahak, P.**; Guha, P.; Roy, B.; Koirala, S.; Chettri, P.; Das, K.; Misono, T.; Torigoe, K.; Panda, A. K., Effect of polymer charge on the formation and stability of anti-inflammatory drug loaded nanostructured lipid carriers: physicochemical approach. *RSC Advances* **2015**, 5 (81), 65697-65709.
4. Bhattarai, R.; Roy, B.; Guha, P.; Bista, A.; Bhadra, A.; Karmakar, G.; **Nahak, P.**; Chettri, P.; Panda, A. K., Spectroscopic Investigation on the Interaction of

- Curcumin with Phosphatidylcholine Liposomes. *Journal of Surface Science Technology* **2015**, *31* (1-2), 1-9.
5. Koirala, S.; Roy, B.; Guha, P.; Bhattarai, R.; Sapkota, M.; **Nahak, P.**; Karmakar, G.; Mandal, A. K.; Kumar, A.; Panda, A. K., Effect of double tailed cationic surfactants on the physicochemical behavior of hybrid vesicles. *RSC Advances* **2016**, *6* (17), 13786-13796.
 6. Karmakar, G.; **Nahak, P.**; Guha, P.; Roy, B.; Chettri, P.; Sapkota, M.; Koirala, S.; Misono, T.; Torigoe, K.; Ghosh, S.; Panda, A. K., Effects of Fatty Acids on the Interfacial and Solution Behavior of Mixed Lipidic Aggregates Called Solid Lipid Nanoparticles. *Journal of Oleo Science* **2016**, *65* (5), 419-430.
 7. Roy, B.; Guha, P.; Bhattarai, R.; **Nahak, P.**; Karmakar, G.; Chettri, P.; Panda, A. K., Influence of Lipid Composition, pH, and Temperature on Physicochemical Properties of Liposomes with Curcumin as Model Drug. *Journal of Oleo Science* **2016**, *65* (5), 399-411.
 8. Bhadra, A.; Karmakar, G.; **Nahak, P.**; Chettri, P.; Roy, B.; Guha, P.; Mandal, K. A.; Nath, K. R.; Pnda, A. K., Impact of detergents on the physiochemical behavior of itraconazole loaded nanostructured lipid carriers. *Colloids surfaces A*; **2017**, *516*, (5), 63–71.

➤ **Oral Presentation:**

➤ **Poster Presentation:**

1. “Oral administration of orcinol glucoside loaded polymer – lipid hybrid nanoparticles for gastrointestinal tract cancer targeting and improved *in vitro* cytotoxicity against GIT cell lines”, **Prasant Nahak**, and Amiya Kumar Panda*, in the “*International conference on challenges in drug discovery and delivery ICCD3*), held at Birla Institute of Technology and science, Pilani, March 2–4, 2017.
2. “Influence of Lipid Core Material on Physicochemical Characteristics of an Ursolic Acid-Loaded Nanostructured Lipid Carrier: An Attempt To Enhance Anticancer Activity”, **Prasant Nahak**, and Amiya Kumar Panda*, in the “*19th CRSI National Symposium in Chemistry (CRSI NSC–19)*”, held at University of North Bengal, Darjeeling, India, July 14–16, 2016.
3. “Physicochemical studies on local anaesthetic loaded second generation nanolipid carriers”, **Prasant Nahak**, and Amiya Kumar Panda*, in the “*17th National conference on surfactants, emulsions and biocolloids (NATCOSEB–XVII)*”, held at Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India, November 04–06, 2015.
4. “Effect of serum, cholesterol and low density lipoprotein on the functionality and structure of lung surfactant films”, **Prasant Nahak**, and Amiya Kumar Panda*, in the “*INDO- UK International workshop on advanced materials and their application in nanotechnology (AMAN 2014)*”, held at Birla Institute of Technology and science, Goa, May 17–19, 2014.
5. “Effect of serum, cholesterol and low density lipoprotein on the functionality and structure of lung surfactant films”, **Prasant Nahak**, and Amiya Kumar Panda*, in the “*5th Asian conference on colloid and interface science (ACCIS 2013)*”, held at University of North Bengal, Darjeeling, India, November 20–23, 2013.