

## SHREE DHANVANTARY PHARMACY COLLEGE, KIM

Poster presentation  
At  
4<sup>th</sup> International Conference on Drug Discovery & Therapy  
On  
February 12<sup>th</sup> to 15<sup>th</sup>, 2012.

**Theme:** Anti-Cancer Drug Discovery & Therapy

**Venue:** Dubai Men's College, Dubai, UAE.

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**Nature of conference:**

Four day international conference will feature lectures and poster presentations on selected topics by leaders in the field of academia and industry. 4 Nobel Laureates have already confirmed their participation in the conference, namely *Prof. Ferid Murad* (USA), *Prof. Hartmut Michel* (Germany), *Prof. Harald zur Hausen* (Germany) and *Prof. Mario Molina* (USA).

**Title:** Modified gum ghatti based hydrogel beads for drug delivery application: Synthesis, characterization and formulation development.

**Category:** Drug Delivery & Targeting

**Abstract:**

Gum ghatti a natural polysaccharide is inadequately studied for pharmaceutical applications. With an aim to develop a functional polysaccharide for site specific (intestinal) drug delivery, the pH-sensitive polyacrylamide grafted gum ghatti (H-PAAm-g-Ght) was synthesized and characterized by FTIR and thermo gravimetric analysis. Modified polysaccharide thus developed was formulated into ferric ion cross-linked hydrogel beads by organic solvent free technique and aceclofenac was chosen as model drug. Formulations were optimized and characterized for entrapment efficiency, particle size, toxicity studies and *in vitro* dissolution studies. Results concludes that prepared hydrogel beads are non toxic, pH sensitive and can successfully release its content at targeted site, which is important from technological point of view.

