Nanoparticles to Target the Pancreas

OCR Number: OCR 6785

Description:

Polymeric Bile Acid Formulations for Targeted Delivery

- A new class of polymer biomaterials (PUDCA) that are selectively taken up and retained in the pancreatic, hepatic and colon microenvironment.
- Formulated as orally administered, safe and biodegradable nanoparticles.
- Unique properties: encapsulates drugs and/or agents, pH-responsive, enables sustained release.
- **Indications:** targeted delivery of drugs and tracking/imaging agents to sites of pancreatic, hepatic and colonic inflammation. For therapy and diagnostic uses
- **Innovator:** Tarek Fahmy, Ph.D.
- **IP status:** PCT/US Application filed 62/214,648
- **Publications:** Unpublished work

![Image](image.png)

**FIG.** Histology images of pancreatic sections from mice that were orally treated with PBS or PUDCA nanoparticles containing iron oxide (SPIOPUDCA). Iron Oxide is assayed using the Prussian Blue stain which appears distinct in the pancreas.

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