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- **Publications:** Unpublished work

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