Docket Number 20120423       Novel Nano-Delivery System for Medical Imaging and Preclinical Imaging         Docket Number 20120423       Docket Number 20120423         Florida A&M University Division of Research       Background:         Contact: Rose Glee, Ph.D. Interim Director Office of Technology Transfer, Licensing & Commercialization 660 Ardelia Court Tallahassee, FL-32307 Phone: 850-412-7232 rose.glee@famu.edu       Background:         Inventors: Mandip Singh Sachdeva, Ph.D. mandip.sachdeva@famu.edu       Despite the foregoing advancements, the outcome or utility of these techniques is limited for one or more reasons, as has been made apparent Accordingly, what is needed is a delivery system of active biomedical/pharmaceutical agent(s) used for in vivo (whole body, organ, on tissue-specific) medical and preclinical imaging for intravenous intraperitoneal, or inhalation route in such a fashion that it allows incorporation of the mutiping mutaperitoneal, or inhalation route in such a fashion that it allows incorporation
20120423Florida A&M University Division of ResearchBackground:Contact: Rose Glee, Ph.D. Interim Director Office of Technology Transfer, Licensing & Commercialization 660 Ardelia Court Talahassee, FL-32307 Phone: 850-412-7232 rose.glee@famu.eduImaging techniques have been used in medical practice and clinical trial for non-invasive diagnosis of disease and progression of treatments. Medical imaging is the technique and process used to create images of the humar body (or parts and function thereof) for clinical purposes (medical procedures seeking to reveal, diagnose or examine disease) or medical science (including the study of normal anatomy and physiology).Statement of Problem:Inventors: Mandip Singh Sachdeva, Ph.D. mandip.sachdeva@famu.eduMandip Singh Sachdeva, Ph.D. mandip.sachdeva@famu.eduMandip Singh Sachdeva, Ph.D.Mandip Singh Sachdeva, Ph.D.Mandip Singh Sachdeva Despite the foregoing and preclinical imaging for intravenous intraperitoneal, or inhalation route in such a fashion that it allows incorporation
Division of ResearchContact: Rose Glee, Ph.D. Interim Director Office of Technology Transfer, Licensing & Commercialization 660 Ardelia Court Tallahassee, FL-32307 Phone: 850-412-7232 rose.glee@famu.eduImaging techniques have been used in medical practice and clinical trial for non-invasive diagnosis of disease and progression of treatments. Medical imaging is the technique and process used to create images of the human body (or parts and function thereof) for clinical purposes (medical procedures seeking to reveal, diagnose or examine disease) or medical science (including the study of normal anatomy and physiology).Statement of Problem:Inventors: Mandip Singh Sachdeva, Ph.D. mandip.sachdeva@famu.eduMandip Singh Sachdeva, Ph.D.Mandip Singh Sachdeva
<ul> <li>Contact:         <ul> <li>Rose Glee, Ph.D.</li> <li>Interim Director</li> <li>Office of Technology</li> <li>Transfer, Licensing &amp;</li> <li>Commercialization</li> <li>660 Ardelia Court</li> <li>Tallahassee, FL-32307</li> <li>Phone: 850-412-7232</li> <li>rose.glee@famu.edu</li> </ul> </li> <li>Inventors:         <ul> <li>Mandip Singh Sachdeva, Ph.D.</li> <li>Dh.D.</li> <li>mandip.sachdeva@famu.edu</li> </ul> </li> <li>Inventors:         <ul> <li>Mandip Singh Sachdeva, Ph.D.</li> <li>Ph.D.</li> <li>mandip.sachdeva@famu.edu</li> <li>Cordingly, what is needed is a delivery system of active biomedical/pharmaceutical agent(s) used for in vivo (whole body, organ, or intravenous intraperitoneal, or inhalation route in such a fashion that it allows incorporation</li> </ul> </li> </ul>
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<ul> <li>Apurva R Patel, M.S.</li> <li>Key Features:</li> <li>Novel modified nano- carriers for delivery</li> <li>Enhances diagnostic and therapy for better pre-clinical / clinical</li> <li>of the multiple systems in such manner that hurdles of individual techniques may be overcome. However, in view of the art considered as a whole at the skill in the field of this invention was made, it was not obvious to those of ordinary skill in the field of this invention how the shortcomings of the prior art could be overcome. To date, no study has been reported on the use of modified nanoparticle for in vivo (whole body, organ or tissue-specific) imaging comprising one or more active biomedical/pharmaceutical agents.</li> </ul>
• Can incorporate more
than one diagnostic molecules and produce a variety of release/ delivery profiles The present invention relates to a method of delivery of modified nanostructures of active biomedical and pharmaceutical agent(s) for longer sustained bioluminescent, fluorescent, or contrast signals and increased signal flux at specific sites of interest on the body.
Field: Preclinical Imaging
<b>Technology:</b> Novel Nano-Delivery System for Medical Imaging Preclinical Imaging This technology is developed and tested for pre-clinical use of diagnostic bioluminescent and fluorescent system for (lucierin and Xenolight DiR) in the pre-clinical cancer (lung, breast) models (xenographt, orthotopic, metastatic) by intravenous, intraperitoneal and subqutaneous delivery system. R&D was funded at FAMU by the NIH- MBRS-SC1 program (Grant # SC1 GM092779- 01) Already, the development of the nano-carriers (Nano-Luc and Nano-
Stage of Development:LucDiR)was carried out and evaluated for in-vivo performance (pharmacokinetics, toxicity and diagnostic potential). We are seeking
Status: Seeking further research & development support and/or licensing partner.
Patent Status: Pending