“Spring is the time of plans and projects.” - Leo Tolstoy
Give us a call to discuss your plans and projects

In this Issue we highlight ...

- Cotton Rat Models of RSV and Influenza Infection
- TEDCO Grant for Patient-Derived Metastasis Mouse (PDMX mouse) Models

Optimized RSV Cotton Rat Model Launched
When infected with RSV, the cotton rat displays many features of human pathology making it the model of choice for preclinical development of RSV vaccines and therapeutic agents. In our recently optimized model, we infected cotton rats intranasally with RSV and followed the time course of the infection by determining viral titers in lung homogenates and broncho-alveolar lavage fluids (BALF). The results showed that the viral titers are proportional to the dose of virus infection and increased from day 1 through days 4–5 post challenge and then declined through day 7. We further demonstrated that this model can also be used to test the efficacy of anti-viral agents. Viral titers can be determined using immunoplaque assays and qPCR. Histology can be evaluated with H&E stained lung tissue sections.

Coming Soon! Cotton Rat Model of Influenza Infection
Cotton rats are also a helpful tool to determine the efficacy of antiviral agents and vaccines against influenza because non-adapted human influenza isolates replicate in the upper and lower respiratory tract following intranasal inoculation and infection resembles that seen in humans. In addition, cotton rats possess an intact immune system that includes an intact Mx gene. This is important for vaccine evaluation because intact immunity is required for the model to be successful. Our scientists, in partnership with IBT BioServices, are now optimizing the cotton rat as a model of influenza infection.

For more information contact us: info@noblelifesci.com

In Development! PDMX Mouse Models
Virtually all cancer drug development testing is based on activity in primary tumors whereas metastasis, not the primary tumor, is cause of death in over 90% of cancer cases. For this reason, our goal is to create patient-derived metastasis mouse (PDMX) models thereby establishing mouse avatars for preclinical testing of human metastatic tumors. Noble Life Sciences recently received a Maryland TEDCO Award for Development of ex vivo and in vivo assays for anti-Metastatic drug development utilizing patented technology, called Cell Adhesion Matrix-Based (CAM) Enrichment of Invasive CTCs, licensed by Noble Life Sciences from Vitatex, Inc. to isolate metastasis-initiating circulating tumor cells (CTCs).

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About Noble Life Sciences
Noble Life Sciences is a contract research organization (CRO) that provides integrated in vitro and in vivo preclinical services designed to accelerate drug development. With deep expertise in drug development, the company offers access to their top scientists who work collaboratively with researchers to expedite preclinical and clinical therapeutic development. Our years of extensive experience together with a focus on oncology, inflammation, autoimmune, and infectious diseases allow us to bring strong scientific insight to your discovery programs. For more information:
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