

Methods for Analyzing Cellular Entrance Pathways

Published date: July 10, 2013

Technology description



Background

Understanding how drugs and viruses enter cells is paramount for better drug efficacy and for designing more targeted drugs to combat infection. Currently, traditional molecular biology techniques are used to understand the passage of a molecule from the outside of the cell to the cytoplasm. While these techniques offer a great starting point to understanding key proteins involved in transport, they only provide a snapshot of a specific interaction and miss other biomolecules that are involved in intermediate steps.

Technology Summary

Purdue University researchers have developed a multifunctional reagent to study cellular transport of molecules. The novel reagent will interact with multiple proteins necessary for transport into the cell and the resulting conjugates identified by mass spectrometry. At varying times, cellular proteins can be isolated to identify the proteins the reagent is bound to, giving investigators a better understanding of what is involved in cellular transport.

Application area

Pharmaceuticals

Drug Development
Bioinformatics
Chemical Analysis

Advantages

Information to design more efficacious drugs
Learn more detailed information about cellular transport
Design more targeted drugs to treat infection

Institution

[Purdue University](#)

联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com