

Public Abstract

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Graduation Term:FS 2017

Department:Chemistry

Degree:PhD

Title:Development of Fluorescent Sensors for Amines and Glycolipids

In the medicinal field, identifying diseases and finding ways to treat them remains a complicated but necessary task. We have sought to identify a way to treat lysosomal storage disorder diseases, where the body is unable to remove these properly and can cause severe health complications. Additionally, provided the large amount of transfusions that take place in the healthcare setting, it would also be useful to find a way to create a universal blood from any blood time. To accomplish this we have created a fluorescent sensor that will bind to the targets associated with these issues and help to either remove them. Our sensor was able to remove simple chemicals from artificial membranes, which will be applied towards real life targets including blood groups.