



## Condensed Matter Seminar

**Prof. Theresa Reineke**

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*Carbohydrate-Based Vehicles for the  
Cellular Delivery of Polynucleotides*

**Monday, Oct. 19**

**4:00 P.M.**

**304 Robeson**

The wealth of information being obtained from genomic, proteomic, and glycomic research is allowing researchers to unravel the intricate genetic and epigenetic mechanisms associated with human health and disease. The intracellular delivery of nucleic acids, such as plasmid DNA, oligonucleotides, and small interfering RNA, to study these processes offers unprecedented promise for revolutionizing biological and medical research by presenting an effective and facile means of regulating gene expression. For this reason, many drug discovery programs have begun an exciting paradigm shift to develop novel polynucleotide-based therapeutics for combating numerous acquired and inherited diseases such as cancer, HIV, Alzheimer's, and cardiovascular disease.

