**Synthesis of Novel Viral carbohydrates**

**PROJECT DESCRIPTION**
The project will involve the chemical synthesis of novel glycans (carbohydrates) that are found attached to proteins in Chloroviruses. The structures of these molecules have been recently elucidated (Angew. Chem Int Ed. 2016, 55: 654) and are unprecedented. Intrigued by their highly unusual chemical structures, we are working to develop methods for their synthesis. The compounds obtained will be used probes to understand the role of these glycans in the life cycle of Chloroviruses. The interns will gain experience in the chemical synthesis and characterization of carbohydrates.

**FACULTY-DEPARTMENT**
Chemistry

**OPEN TO STUDENTS FROM THE FOLLOWING INSTITUTIONS**
All/No Preference

**DESIRABLE FIELD OF STUDENT STUDY**
Chemistry, including organic chemistry

**INTERNSHIP LOCATION**
North Campus/South Campus/Enterprise Square

**NUMBER OF INTERNSHIP POSITIONS**
1 or 2

**INTERNSHIP START AND END DATE**
No preference; length 12 weeks

**ARE THE DATES FLEXIBLE?**
Yes