

Wake Forest University Synthetic Core Facility

This facility is a core unit of the Departments of Cancer Biology and Chemistry and is available to all members of the Wake Forest University Cancer Center. Other faculty of Wake Forest may contact the facility with requests, but preference goes to members of the Wake Forest University Cancer Center.

The primary goal of the Core facility is to generate new molecular structures for the treatment of cancer. In addition, the facility hopes to stimulate collaboration and understanding between synthetic scientists and biological researchers. Finally, the Core hopes to provide a focus point for interdisciplinary education on both the Reynolda and Medical School campuses for undergraduate and graduate students as well as post-doctoral researchers and faculty.

The initial Core Facility will be housed in Salem Hall on the Reynolda Campus in the laboratory of Dr. S. Bruce King, Director. Dr. Michael Gorcynzski will also be a part-time employee of the facility. The NIH Biosketches of these scientists can be viewed below. These labs provide suitable support for the current synthetic efforts and the Chemistry department supports the use of analytical services such as NMR spectroscopy and X-ray crystallography. The director will also attempt to attract both graduate and undergraduate researchers to the Core group.

The Core facility can provide a number of resources to the Cancer Center and to Wake Forest University. Planned services include 1) literature searches for molecules of interest, 2) literature searches for commercial availability of molecules of interest, 3) consultation on synthesis/purification of molecules and 4) the preparation of new molecules for the treatment of cancer. Choice of molecules for total synthesis will be subject to review by an advisory board consisting of at least one member of the Reynolda Campus, one from the medical school and one from the Office of Asset and Technology Management. Such a group will provide realistic advice for the development of new chemical entities in terms of synthetic feasibility, biological relevance and commercial importance. This board is currently being assembled by the director.

Please follow the instructions below to submit your request to this Core facility. Please fill out as much information as possible in the provided form. A member of the Core will contact you as soon as possible regarding your request.