

The Magomedov-Shcherbinina Memorial Prize and Lectureship

Sergey A. Kozmin

Associate Professor of Chemistry
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“Practical Organic Synthesis to Unravel Chemical Biology of Complex Natural Products”

Wednesday, October 15th, 2008

12:00PM • Hutchison Hall • Room 473

Lecture Abstract: Many bioactive natural products have evolved to modulate the function of individual proteins in living organisms with high potency and exquisite selectivity. One of the objectives of the Kozmin group's research program is to elucidate the mechanism of action of complex natural products at the molecular level. Such compounds are discovered most frequently through phenotypic cell-based screening. Due to the significant progress in isolation and structure elucidation of new natural products, there is an increasing demand on the efficiency of modern organic synthesis, which is required to provide practical access to rare and biosynthetically inaccessible secondary metabolites in order to enable their biological and pharmacological evaluation, en route to the ultimate development of new therapeutic agents. Professor Kozmin will discuss how the efficient chemical synthesis of complex natural products can enable identification of cellular targets of such compounds in several areas of cell biology, including cytokinesis, protein synthesis and energy metabolism.



The **Magomedov-Shcherbinina Memorial Prize and Lectureship** is presented in loving memory of the Magomedov-Shcherbinina family. Assistant Professor Nabi Magomedov, his wife Natalya Shcherbinina, and their three-year old son, Amir died tragically on February 7, 2006 in a multi-vehicle accident. The memorial fund was established by the Chemistry Department of the University of Rochester and Bausch & Lomb, Inc., with the generous support of friends, family and colleagues.

There will be a reception following the lecture at 1:15PM in the Green Carpet Lounge.

Faculty Host: Joseph Dinnocenzo -- (585) 275-8351 -- jpd@chem.rochester.edu

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http://www.chem.rochester.edu/events/m-s_mem_prize/



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