



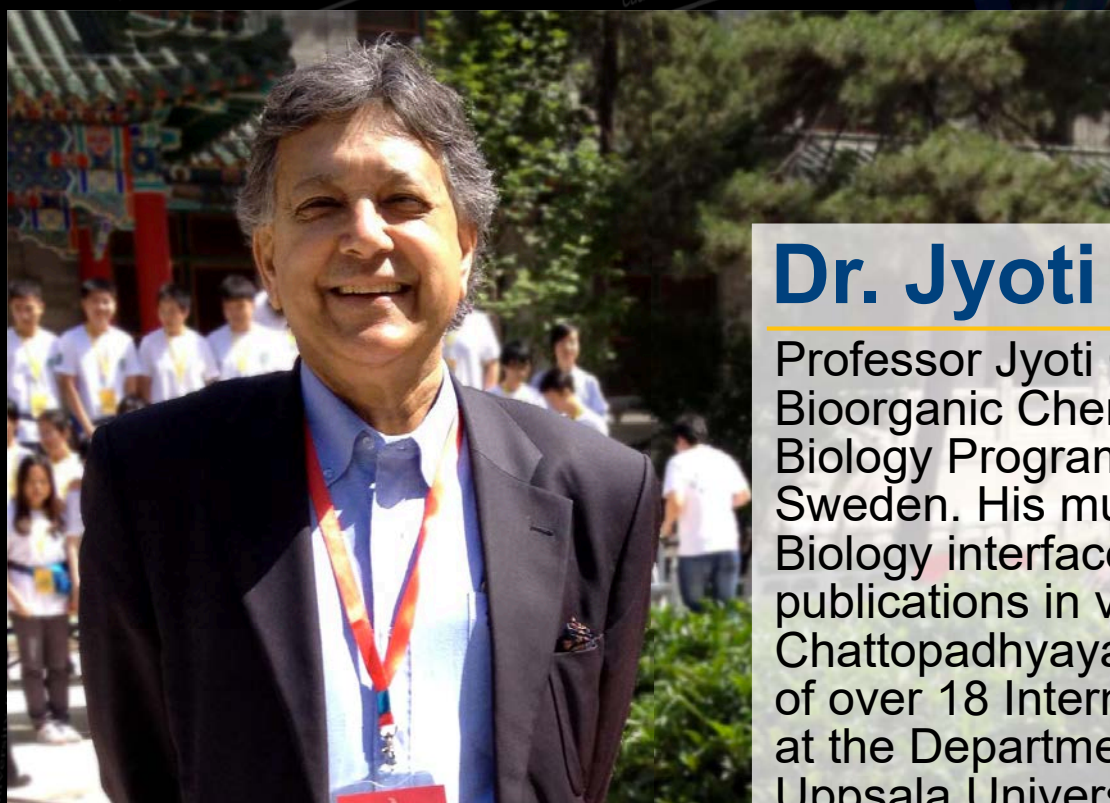
Lakehead  
UNIVERSITY

Faculty of  
Science and  
Environmental Studies

Research &  
Innovation

WEEK MARCH 2 - MARCH 9, 2018

Lakehead University



## Dr. Jyoti Chattopadhyaya

Professor Jyoti Chattopadhyaya is a Chair of Bioorganic Chemistry, and Chair of the Chemical Biology Program at the University of Uppsala, Sweden. His multidisciplinary research in Chemistry-Biology interface has so far resulted, in over 420 publications in various peer-reviewed Journals. Dr. Chattopadhyaya is a member of the Editorial Board of over 18 International Journals and currently works at the Department of Cell and Molecular Biology, Uppsala University doing research in Chemical Biology, Biochemistry and Catalysis.

## The power of gene-silencing to fight lethal viral infections and cancer

DNA and RNA are biomolecules essential to all forms of life. Newly developed RNA-based methods are promising tools to combat virus-related diseases such as cancer and AIDS. One of these methods is called gene-silencing. It protects the host by blocking the disease-causing effects of the virus on infected cells. This is an ancient evolutionary mechanism that is found in both plants and animals. Designing synthetic compounds to mimic this ancient mechanism can result in treatments customized to individual patients. Such a treatment can target infected cells and tissues while minimizing harm to nearby healthy cells. This presentation will discuss these therapeutic approaches.

Wednesday March 7 at 7:30 pm

Thunder Bay Campus UC 1017



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