

Title: The Computational Biology Initiative

Presented by: Lakshmanan (Lax) Iyer

Authors: Lakshmanan (Lax) Iyer, Department of Neuroscience, School of Medicine, Tufts University;
Members of the Computational Biology Initiative

Abstract:

The Computational Biology Initiative (CBI) (sites.tufts.edu/cbi) is a multidisciplinary group of computational biologists, clinicians, bench scientists, and IT professionals dedicated to advancing and supporting computational biology at Tufts. Since its inception in 2009, the CBI has co-sponsored well-attended symposia, developed hands-on training courses in genomics/computational biology, organized and maintained critical bioinformatics infrastructure, and provided consultative services to support grant applications. In 2012, the CBI received its first support through Tufts Collaborates! and Tufts Innovates! grants. With this funding, the CBI developed its website (sites.tufts.edu/cbi/) as a "GoTo" resource for genomics, organized meeting and symposia, provided consultation, and conducted five one-week-long workshops in specific computational biology and genomics topics that successfully leveraged the Tufts high-performance research compute cluster. Because of its multidisciplinary and multilevel nature, the CBI is well-situated to enable Tufts researchers to overcome challenges and take advantage of opportunities for growth in the use of high dimensional "omic" data. We will present a brief summary of CBI goals, accomplishments, plans for the future, and how we can help the larger research community get involved in biological data science. We look forward to working with you on Computational Biology.