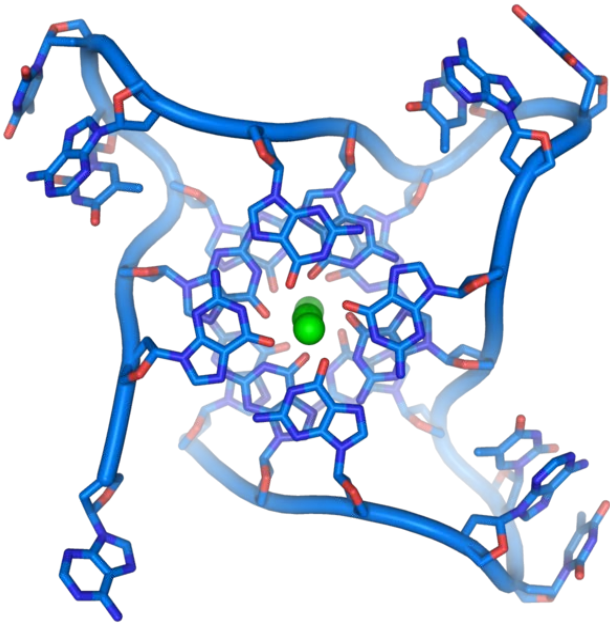# Spring 2014 CS 4593 Sec 2: AT Bioinformatics: A CS View

Data and computing are revolutionizing the way scientists search for the causes and cures of complex diseases.

Find out how computer science and big data are used in this rapidly expanding technological arena.

Prerequisite:

Either Advanced Programming or Applications Development
No biological prerequisite

Topics:

Next gen sequencing and the $50 genome
Epigenetics – why sequencing isn't enough
Computing with public "Omics" data for discovery

Course logistics: Course will emphasize hands-on activities with real datasets to make the ideas concrete and to answer biological questions. We'll use the R programming environment as well as several other computational and data-handling tools.

For additional information: kay.robbins@utsa.edu