Molecular Biology is an exciting experimental field that is producing an explosion of new data. In recent years, a number of developments have enabled Bioinformatics and Biostatistics methodologies to keep pace. CIBB is a meeting with a 10-year history of convening bioinformaticians and biostatisticians to discuss cutting edge methodologies and accelerate life science discovery. Following his traditions and roots, this year's forum will discuss problems concerning computational techniques in bioinformatics, systems biology, medical informatics and biostatistics. The location is the Computer Laboratory, which is the department of Computer Science of the University of Cambridge.

**Topics of interest include but are not limited to:**

Next Generation Sequencing Bioinformatics, Multi omics integration; Methods for the integration of clinical and genetic data; Algorithms for alternative splicing analysis; Methods for the functional classification of genes; Methods for the unsupervised analysis, validation and visualization of structures discovered in bio-molecular data; Prediction of protein structures; Mass spectrometry data analysis in proteomics; Methods for comparative genomics; Algorithms for molecular evolution and phylogenetic analysis; Mathematical modelling and simulation of biological systems; Systems and synthetic biology; Heterogeneous data integration and data fusion for diagnostics; Bio-molecular databases and data mining: Algorithms for pharmacogenetics; Bio-medical text mining and imaging; Modeling and evaluation methods for diagnosis and prognosis; Software tools for bioinformatics.

The scientific program will include, besides some plenary talks, contributed papers that will be presented in plenary oral and poster sessions. Accepted papers will be published in the conference proceedings. A selection of papers presented at CIBB 2014 will be published in a post conference volume printed by an international publisher. Moreover, we are planning to publish the best papers in extended form in a special issue of BMC Bioinformatics.

**Important Dates (new deadlines):**

- Tutorial and Special Session Proposal: 5 - March - 2014
- Paper submission deadline: 5 - April - 2014
- Notification of acceptance: 10 - May - 2014
- Final paper due: 30 - May - 2014
- Conference: 26-28 - June - 2014