Harvard and Stanford. In addition, SANBI offers formal degrees at PhD and Masters level. SANBI is a founding member of the African Society for Bioinformatics and Computational Biology, and will be a host organisation for the 2011 regional meeting of the International Society for Computational Biology in Cape Town.

Facilities
The Institute has adequate scientific computer infrastructure, and is the site for a pair of high performance 32 CPU IBM P-690 servers and, in the next month, an 8 CPU Xserve cluster, which provide a significant proportion of the research compute infrastructure for bioinformatics in Africa. SANBI scientists have workstations and Internet access, as well as backup and disk storage. In late 2010, SANBI will move its premises to a new building, offering extensive training facilities, a visiting scientist facility and meeting rooms, in addition to the research and service provision currently performed.

Research
- Delivery of an African driven analysis and annotation of Glossina, the vector for the tsetse fly.
- Through capacity developed from genome annotation, we apply expertise and technologies developed to other relevant organisms to African health, with a particular emphasis upon integration of HIV clinical, immune and sequence diversity outcomes, and pathways analysis in Malaria.
- We integrate comparison of vector, host and pathogen genomes to deliver unique African knowledge of HIV and Malaria.
- Develop and apply understanding of normal and diseased human gene expression to diseases relevant to South Africans.
- Develop capacity of scientists through tightly defined research projects that have high impact on health in South Africa.

EU Collaborative projects
SANBI faculty and post docs have enjoyed funded collaborations through the EU FP funding programmes and currently we serve on the SYSCO programme, together with Institut Pasteur Tunis and Paris, and Max Planck Berlin.

The Swedish EMBnet Node: AGM 2010 report

Nils-Einar Eriksson
Computing Department of Uppsala Biomedical Centre (BMC), Uppsala, Sweden

People working for EMBnet Sweden are Nils-Einar Eriksson (TM PC), Emil Lundberg, Martin Norling (PR PC) and Erik Bongcam-Rudloff (EMBnet chairman 2003-2009).

Services
EMBnet Sweden has a web-site connected to several unique tools produced by members of EMBnet together with their associated researchers. EMBnet’s video conference system (Marratech) is located and managed at the Swedish node. Uppsala University is providing mail-list services for EMBnet. The lists are managed by node personnel. DNS master services for EMBnet are also provided by the Swedish node.

SeqScoring
The tool can be used to up-load your SNP- and indel- files from large re-sequencing projects, and get the data scored by conservation across species: www.seqscoring.net.

EVALLER
EVALLER™ is a web-tool wherein you can electronically test (e-Testing) a protein’s potential allergenicity/cross-reactivity based on its amino acid sequence (http://bioinformatics.bmc.uu.se/evaller.html).

MolMeth
MolMeth is a structured database that provides free access to methods used in molecular biology and molecular medicine. Submitted methods and contributions are subject to curation. www.molmeth.org.
RetroTector online
A web-based tool for analysis of retroviral elements in small and medium size vertebrate genomic sequences: http://retrotector.neuro.uu.se/.
EMBnet Sweden has also being involved in the development of several bioinformatics packages and tools for the MacOSX platform:
- eBiotools: A collection of bioinformatics tools (>200): EMBOSS, Staden, T-coffee, ClustalW, and many others
- BioX: a graphical interface for eBiotools
- eBioKit: a server loaded with bioinformatics tools and databases, a solution for small and medium size research groups. The eBioKit is now used in more than 10 countries worldwide.

The node was one of the main organizers of the Next Generation Sequencing technologies workshop organized in Rome, November 2009, and of part II of the workshop in Bari-Italy, July 2010. (www.nextgensequencing.org).

Selection of Publications (2009-2010)


10. David E. Gloriam, Sandra Orchard, Daniela Berlazetti, Erik Bjorling, Erik Bongcam-Rudloff, Julie Bourbeillon, Andrew R. Bradbury, Antoine
The contribution of the eBioKit to Bioinformatics Education in Southern Africa

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As bioinformatics has been making major progress and contributing to the development in the rest of the world, it has still not yet fully integrated the tertiary education and research sector in the countries of Southern Africa. In this context SANBio (Southern African Network for Biosciences) launched a project in 2009, on capacity building in this area so as to address the immediate needs of the scientific community within the region. This project is funded under the BIOFISA program from Finland. The main challenge is to bring to the scientists the knowledge and skills required to fully tap the resources available in the public domain. With an already established network of researchers, a series of workshops were initiated so as to train those in specific fields to become familiar with some of the commonly