

SERVICES - INFORMATION TECHNOLOGIES



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The IT department provides innovative, reliable, and integrated information technology solutions to support various needs within the Institute. Ensuring seamless operation and administration of LAN and wireless network and providing basic networking services such as e-mail, web, DNS and VPN are major tasks. Great emphasis is placed on the network security and data protection using firewall and anti-virus solutions. The IT department offers hardware purchase consultancy, computer ordering, software installation and application support for Windows and Macintosh users. For commonly used software in the Institute, volume and site licensing options are negotiated. Additionally, the IT department provides special support for other technical and scientific departments, e.g. developing simple on-line tools and maintaining dedicated databases, such as animal tracking system. The IT department also operates audio-visual equipment in the new conference hall and provides computers for courses and conferences organized at the Institute. The important systems of the network infrastructure are housed in a modern data centre room equipped with controlled air-conditioning, uninterrupted power supply, temperature and humidity monitoring and fire protection system. In 2008, a secondary data centre room was built to provide additional housing for data storage and backup.



Computer classroom

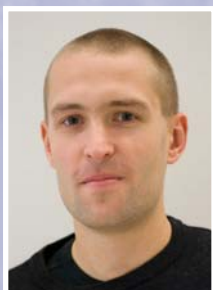


Main data centre room



Tape library and disk storage

SERVICES - GENOMICS AND BIOINFORMATICS



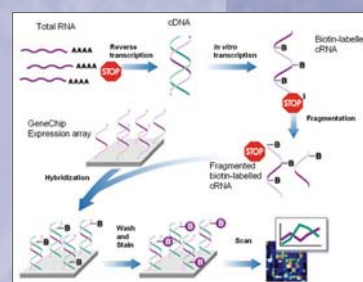
Head: **Robert Ivánek**

People:

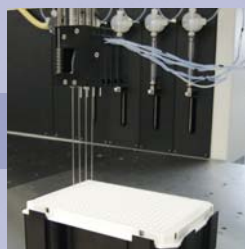
Robert Ivánek, MSc, Martina Chmelíková, MSc, Veronika Klatovská, MSc



The facility was established in late 2005 after purchase of the Affymetrix GeneChip System and was initially operated by the staff from the Department of Mouse Molecular Genetics. Since January 2007, it has become an independent unit which provides full chip microarray services, real-time quantitative PCR service and high-throughput methods using the robotic equipment. The services are provided not only to the research groups at the Institute of Molecular Genetics, but also to other academic institutions in the Czech Republic as well as abroad. The core facility is equipped with two microarray platforms: Affymetrix GeneChip System and Illumina BeadStation 500, real-time PCR cycler Roche LC480 and JANUS robots from PerkinElmer, and also with instruments for assessment of quality and quantity of processed samples (spectrophotometer Nanodrop and capillary electrophoresis Agilent Bioanalyzer). The facility represents one of the European certified Affymetrix core labs.



Affymetrix GeneChip Scanner



PerkinElmer Janus



Agilent Bioanalyzer