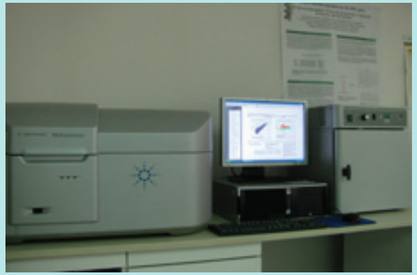
With the support of the European Commission the following equipment was purchased:

- **DNA Microarray scanner system –** Agilent Technologies, July 2009



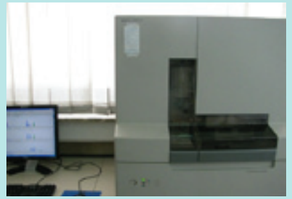
- Agilent microarray hybridization chamber
- Agilent hybridization oven
- DNA Microarrey scanner with Surescan high-resolution technology

- **Agilent 2100 Bioanalyzer** - Agilent Technologies, December 2009
- **Ettan 2D DIGE Electrophoresis system** - GE Healthcare, September, 2009

  - Ettan DALTsix Elecrophoresis system;
  - Ettan IPGphor3 isoelectric focusing unit;
  - Ettan DIGE Imager with ImageQuant TL software

- **Ultrospec6300pro** – UV/Visible spectrophotometer, GE Healthcare, June 2009

- **NanoVue -** UV/Visible spectrophotometer, GE Healthcare, June 2009



- **Genetic Analyzer 3130** - Applied Biosystems, October, 2009

- **7500 Fast Real-time PCR System**, Applied Biosystems, January, 2010
- **Wallac 1410 -** Liquid scintillation counter, Pharmacia, July 2009
- **Microfuge 16 & 18 -** Centrifuges - Beckman, October 2009
-

Several new scientific projects were prepared and submitted to different founding agencies.

RCGEB scientists presented their work on several scientific conferences and published their results in international scientific journals.

MACEDONIAN ACADEMY OF SCIENCES AND ARTS

RESEARCH CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY

NATIONAL REFERENCE CENTRE FOR GENOMICS AND PROTEOMICS

http://www.manu.edu.mk/macprogen

FP7-REGPOT-2008-1
Project No. 229458

Skopje, Republic of Macedonia
2010

With an aim:

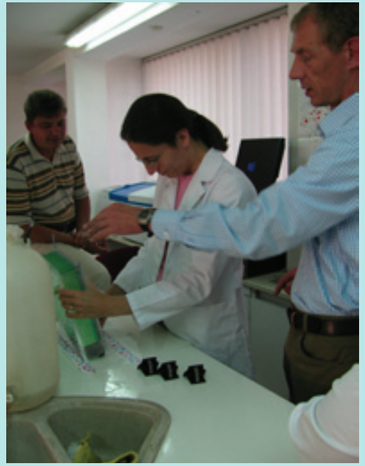
- to upgrade the Research Centre for Genetic Engineering and Biotechnology (RCGEB), Macedonian Academy of Sciences and Arts (MASA) and to provide a technological platform for high throughput genomic and proteomic research,
- to train the RCGEB researchers in the new technologies in the fields of genomics and proteomics,
- to foster the networking with EU Research institutions through exchange of visits, training and collaborative projects,
- to enhance participation of scientists from R. Macedonia in the 7th Framework Programme,
- to promote the new trends in the field of genomics and proteomics and to disseminate the knowledge and
- to create an improved interactive and competitive research environment

The National Reference Centre for Genomics and Proteomics was created in 2009. The Centre was supported by European Commission with a financial support of 894.000 Euro.

To give an international character of the newly founded Centre the following EU institutions were included as partners:

- Wilhelm Johannsen Centre for Functional Genome Research, University of Copenhagen; **Copenhagen, Denmark** (Niels Tommerup)
- Hannover Medical School, Gynaecology Research Unit, **Hannover, Germany** (Thilo Dork-Bousset)
- University of Barcelona, Faculty of Medicine, Human Genetics Laboratory, **Barcelona, Spain** (Rafael Oliva Virgili)
- University of Verona, Department of Mother and Child, Section of Biology and Genetics, **Verona, Italy** (Pier Franco Pignatti)
- University of Copenhagen, Division of Genetics and Bioinformatics, **Copenhagen, Denmark** (Jan Gorodkin)
- Institute Paoli Calmettes, Molecular Oncology Department, Oncogenomic Group, **Marseille, France** (Max Chaffanet)

Besides the permanent RCGEB researchers, six experienced scientists were employed; one with PhD The collaboration with EU institutions was expanded through trainings and short visits of RCGEB scientists.



The collaboration with EU institutions was expanded through trainings and short visits of RCGEB scientists.

- Dr. Katarina Davalieva participated at the Eurogentest workshop for genetic testing– “Best practice in High Resolution Melting Curve Analysis”, in **Leiden**, **The Netherlands**, September 17-18, 2009
- Dr. Katarina Davalieva and graduated biologist Sanja Kiprijanova from 26-30 October, 2009, participated in “Ettan DIGE Training Course” and “Ettan DIGE Analysis Course”, held at the GE Healthcare Centre in **Munich**, **Germany**;
- In cooperation with Professor Pier Franco Pignatti, Dept. of Biology and Genetics, University of Verona, m-r Katerina Popovska Jankovic, stayed four weeks (23.11-18.12.2009) at the “Plant Functional Genomic Center, Faculty of Science” University of **Verona**, **Italy**, headed by Professor Massimo Delledone, for a training in microarray technology;
- Graduated biologist Ivana Maleva, received three weeks training (23.11 - 12.12. 2009) in comparative genomic hybridization (CGH) at Institute for biochemistry and genetics, “Henry Mondor” Hospital, **Paris**, **France**, headed by Professor Michel Goossens;
- Dr. Katarina Davalieva and graduated biologist Sanja Kiprijanova received a training in 2D-DIGE techniques for two weeks (01.03-14.03.2010) in the Cochin Institute, Department of Proteomic Platform, **Paris**, **France**, headed by Phillipe Chafey;
- Dr. Svetlana Mazunkova was trained in microarray technology during a two weeks period (01.03-14.03.2010), at the Cochin Institute, Department for Development and neuromuscular disorders, **Paris**, **France,** headed by Professor Jamel Chelly;
- Prof. Georgi D. Efremov visited Prof. Michel Goosens at the Institute for biochemistry and genetics, Henry Mondor Hospital, and Prof. Dominique Labie at the Cochin Institute, Institute for Genetics, **Paris, France**, in a period from 5-8 October, 2009;
- Prof. Dijana Plaseska-Karanfilska visited Prof. Niels Tommerup, “Wilhelm Johannsen Centre for Functional Genome Research, University of Copenhagen, and Dr. Jan Gorodkin, Department for genetics and bioinformatics, IBHV, **Copenhagen**, **Denmark**, in a period from 1-3 October, 2009.