

## Project Aims and Scope

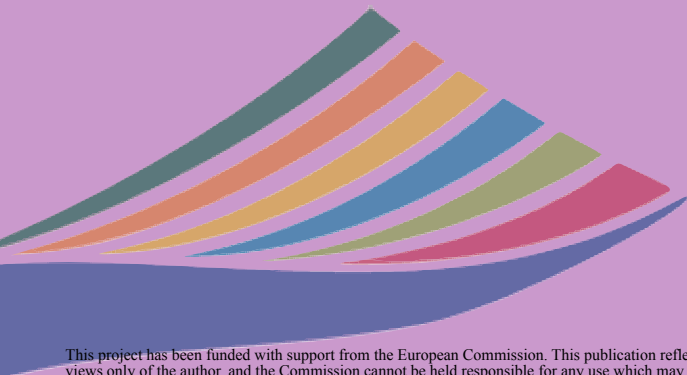
This project is aimed at promoting the building of an European identity among the future generations by revealing how many genetic ties exist between all Europeans since the ancient past.

After sampling student DNA we carry out molecular biology lab works for DNA typing and assign student data to the appropriate clades. Further lab procedures lead to data to be used in revealing genetic relations by means of applying basic bioinformatic procedures.

In order to understand the relatedness between Europeans, our investigations will reveal links between biological, historical and cultural facts. This will bring students closer to a scientific culture by using molecular biology methods and will foster awareness of the necessity to be transnationally mobile and to be able to communicate in the scientific lingua franca.

ICT will be used for communication, analyzing and presenting data throughout the entire project. Students create e-learning modules to cover all project subtopics and to disseminate the outcome.

Activities will be designed according to the concepts of problem based and collaborative learning. Project material will be made available for the public in order to encourage other educational institutions to join in.



where we come from....



where we go to....

**ORIGINS**

# PROJECT PARTNERS

BIOTECHNOLOGISCHES  
GYMNASIUM AN DER  
BERTHA-VON-SUTTNER-SCHULE



vocational High School with a focus on biotechnology and bioinformatics in Ettlingen town , Germany. Languages taught are English, French and Spanish. BVS is a public school funded by the Karlsruhe Regional Community.

Comenius Project Coordinator : Dr. Norbert Mueller

MESSUKYLÄN LUKIO



high school wich focus on media and communication in Tampere, Finland. Languages taught are English, Swedish, Russian, German. The school has a history of cooperations with schools throughout Europe. ML is a school of the Tampere Town Community.

Comenius Project Coordinator: Anu Novak

COLEGIO ÁRTICA



school center of education on all levels from kindergarden to secondary education. CA is a private school operating at different locations in the Madrid Community. It has a history of international projects and cooperations.

General Project Coordinator: Mercedes Santos

*in cooperation with:*



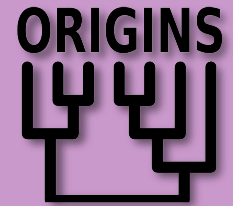
DEPT. GÉNÉTICA MÉDICA



MITOCHONDRIAL  
GENETICS GROUP

# REVEAL COMMON ANCESTRY

Project under the COMENIUS program of the European Commission



## PROJECT FIELDS AND ACTIVITIES

### LABORATORY AND SCIENCE BEHIND

Molecular Genetics and Laboratory procedures to reveal the haplotype of all project team members and their classmates. Identification was done by extracting mitochondrial DNA and amplification of various parts of the mitochondrial Genome by subsequent analysis either by restriction analysis or by having the DNA quick-sequenced by an external laboratory. All sequences were reviewed and can be retrieved from an internet-based database through <http://www.getbiotec.de>. Whoever wants to contribute to the database is invited to do so via webform on the project webpages. Please contact the Project coordinator of Biotechnologisches Gymnasium through the webpages for access.

### ARCHEOLOGY AND HUMAN ORIGIN

Focussing on archeology sites of early mankind in glacial Europe like Atapuerca Fossil Site in Northern Spain, the starting point for resettlements in middle and northern Europe after Glacial Periods. This strengthens the concience of originating all from the same safe haven. Making molds of fossil records like skulls allow for a even closer look onto our antecessors.

### ELEARNING

To disseminate results and increase their sustainability, activities are transformed into elearning modules with SCORM functionality. The Project weppages showcase some of them to get an impression of project work.

### MEDIA AND DOCUMENTATION

All laboratory procedures are documented on labcharts in four different languages: english and all national languages of the project partners and can be downloaded from the project webpages. All project meetings will be documented on various media types.

### LOCAL PROJECT DAYS

The project will be advertized at local Project Days, e.g. als Sampling Days, where every student willing and curious enough will have his DNA tested.

### WEBPAGES FOR DOCUMENTATION AND DISSEMINATION

Project activities and Results are published on the project webpages, a subsite of the Bertha-von-Suttner-Schule Website at <http://www.getbiotec.de>. There you find the sequence database and eLearning modules.