

**Practice Rotation classes at the Department of Molecular Carcinogenesis will be organized in two separate blocks of laboratory work and bioinformatic analysis.**

**Bioinformatics (150 h, 5 ECTS):**

Single nucleotide variation associated with lifestyle and infection diseases based on available knowledge, literature, Ensembl, and other resources, identified by GWAS.

Students will perform bioinformatic analyses of GWAS-identified CNVs. Then they use the population genomic databases to associate profiles of CNVs with lifestyle and infection diseases in a given population. That way they can differentiate population-, and racial-specific CNV profiles and select diagnostic sets for this group. The next statistical analyses will be performed to check the specificity and sensitivity of this diagnostic set of selected CNVs as a prognostic tool that can be used in a given population together with other behavioral and environmental risk factors.