

Molecular Variation in Complex Diseases

» Dr. Peter Ahnert

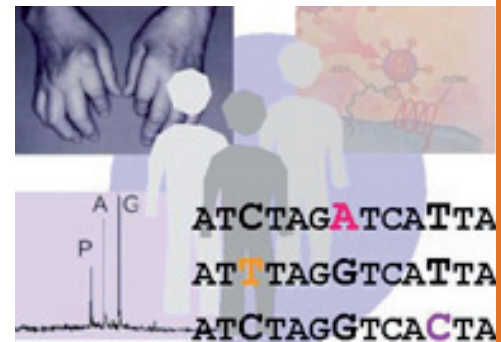
Many diseases are well understood today and some can be treated rather efficiently.

However, some maladies are of a complex nature. Their etiology and pathogenesis are often unclear and efficient treatments are not available. The research group of Dr. Peter Ahnert aims to contribute to the effort to gain insight into the analysis of such diseases at the molecular level. One specific focus of the group is the investigation of the genetics of common complex diseases, for instance autoimmune diseases. They use genome wide functional evaluation of genes in the disease context in combination with information from linkage studies, genome-wide association

studies to identify candidate genes. The research group employs genotyping techniques like microarrays or single base extension with allele detection by mass spectrometry. Among other results, they newly identified genes involved in susceptibility to rheumatoid arthritis.

Keywords

- Complex Diseases
- Genetics
- Association Studies
- Autoimmunity



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