



Giorgio Valle

Giorgio Valle is a full professor of Molecular Biology at the University of Padua where is currently heading the Interdepartmental Centre of Biotechnology (CRIBI).

Scientific interests

His research interest is mainly focused on Genomic Research and Bioinformatics. He contributed to the genomic analysis of several organisms including Yeast, Arabidopsis, Grape and Tomato, as well as extremophilic bacteria. His interest in genomic analysis is still active, as his group is currently working on the development and application of new DNA sequencing technologies both at the genomic and transcriptomic levels.

Beside genomics, his group is involved in the development of bioinformatic tools, focusing on two main directions: data integration and algorithms development. This has led to the production of a platform for bioinformatic analysis of genomes, that is able to perform gene prediction and annotation with high efficiency.

Experimental approaches and expertise

Sanger DNA sequencing, Pyrosequencing, SOLiD sequencing, Laboratory automation, Analysis of genetic markers, Analysis of SNPs, STRs and CNVs, Analysis of gene expression by microarrays and RNA-Seq, Analysis of protein interactions, Functional characterization of genes and proteins.