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# **Czech J. Genet. Plant Breed.**

# Proteomics: taking over where genomics leaves off

Czech J. Genet. Plant Breed., 46 (2010): 47-53

The proteomic studies are simultaneously developed in several directions and significantly influence our notions on the capabilities of biological sciences. The need for proteomics research is necessary as there are certain genes in a cell that encode proteins with specific functions. Using a variety of techniques, proteomics can be used to study how proteins interact within a system or how the protein expression changes in different parts of the body, in different stages of its life cycle and in different environmental conditions as every individual has one genome and many proteomes. Besides the qualitative and quantitative description of the expressed proteins, proteomics also deals with the analysis of mutual interactions of proteins. Thereby, candidate proteins can be identified which may be used as starting-

points for diagnostic or even therapeutic approaches.

## Keywords:

applications; methods; protein databases; proteome; proteomics

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