



Molecular Biotechnology Programme
Uppsala University School of Engineering

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Author	Ingrid Gunnarsson	
Title (English)	Multivariate analysis of G protein-coupled receptors	
Title (Swedish)		
Abstract	<p>A large number of G protein-coupled receptors have been investigated with respect to groupings among the sequences based on their physicochemical properties using multivariate methods. Initially, the trans membrane (TM) regions of roughly 900 receptors were examined. In addition, the complete sequences of a smaller subset of receptors were examined in the same way and the results compared. The sequences were multivariately characterised using five zz-scales, and for handling sequences of varying length Auto Cross Covariances (ACC) were used. The methods used include Principal Components Analysis (PCA), partial least squares Projections to Latent Structures (PLS) and Soft Independent Modelling of Class Analogies (SIMCA).</p>	
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