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New challenges in bioinformatics: integrative analysis of omics data

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entrada libre hasta completar el aforo

resumen:

As the developments in high throughput technologies have become more common and accessible it is becoming usual to take different simultaneous approaches to study the same problem. In practice this means that different sets of data of different types (expression, proteins, metabolites...) may be available for the analysis of the same problem, highlighting the need for methods and tools to use them in a combined way. In this talk I will provide an overview of some of the current approaches to perform integrative analysis or data integration, I will show some examples of applying such approaches, and discuss the current limitations and the efforts that are being performed to overcome them.

Sobre Alex Sánchez:

Graduated in Biology (1980) and Ph.D. in Statistics (1996), at the program of Probability and Statistics Department of Statistics, Universitat de Barcelona. Master in Bioinformatics at the University of Manchester (2005). Associate Professor in the Department of Statistics, Universitat de Barcelona. His teaching activity focuses on the Statistics Master MEIO-UB-UPC: Statistics (Inference and Decision) and Bioinformatics (Fundamentals of Bioinformatics, Biocomputing, Data analysis in Genomics and Proteomics). His research activity focuses on the interface between Statistics and Bioinformatics. He is the leader of the research group "Bioinformatics and Statistics" devoted to developing and improving methods of data analysis of genomics and proteomics. Simultaneous with his work at the University he is director of the Bioinformatics and Statistics Unit (UEB) of the Research Institute of the "Hospital Universitari del Valle Hebron". This unit provides services to researchers and also develops its own research in applied Statistics and Bioinformatics. He is also a member of several scientific societies and have served as president of the Spanish Region of the International Biometric Society.