



# A Quantitative Overview to Gene Expression Profiling

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A. Reverter – Sept. 2006, UAB, Barcelona, Spain



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## COURSE PROGRAM

	Day 1	Day 2	Day 3	Day 4
09:00 – 11:00	0. Preamble 1. Intro: Challenges	4. Bias and Normalisation 5. Intensities vs Ratios	11. Affymetrix	16. Co-Expression 17. Gene Networks
11:15 – 12:45	2. Design of Experiments	6. Multiple testing & FDR 7. Mixed-Models I	12. MPSS 13. Sensitivity	18. Diff. Expression & Connectivity 19. Network Dynamics - Digital Organisms
13:45 – 15:15	3. GP3xCLI	8. Mixtures 9. Bayesmix 10. Mixed-Model II	14. Gene Ontologies 15. Clustering - PermutMatrix	20. Final Remarks: - Genetical Genomics - Systems Biology
15:30 – 17:30	Computer Session – Computer Session – Computer Session			
	GP3xCLI	Mixed-Models Mixtures	Sensitivity Clustering Ontologies	

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## **COURSE PROGRAM: References**

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- S.-H. Tan, A. Reverter, Y.H. Wang, K.A. Byrne, S.M. McWilliam, and S.A. Lehnert (2006) **Gene expression profiling of bovine *in vitro* adipogenesis using a cDNA microarray.** Functional and Integrative Genomics Feb.10::1–15.
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