

Modelling the impact of chronic changes in human muscle: Ageing and Exercise

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In my presentation I will demonstrate how analysis of genome-wide transcript profiles can define the phenotype of human skeletal muscle in a detail far beyond traditional methodologies. I will then provide an over-view of how such data can be analysed to provide robust models of muscle adaptation; predictive models of exercise induced adaptation and identify a molecular signature of human ageing. Contrasts with genetic, proteomics and metabolomic approaches will be considered.