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GRIN Verlag Mrz 2012, 2012. Taschenbuch. Book Condition: Neu. 210x148x3 mm. This item is printed on demand - Print on Demand Neuware - Master's Thesis from the year 2011 in the subject Medicine - Biomedical Engineering, grade: B2, Merit, University of Glasgow (Cardiovascular and Medical Sciences), course: Master's of Research Biomedical Sciences, language: English, comment: Although a very demanding project, Tushar carried out an excellent job. The multi-faceted nature of the project required a variety of new skills to be learned. He managed to learn the skills quickly and competently. Tushar is filled with enthusiasm for his subject area and is always keen to extend his knowledge by taking on new challenges. I am also particularly impressed by his resolve, which is exemplified by the considerable effort he has expended in the planning and implementation of his research studies. Tushar has also gained considerable experience working as part of a team. , abstract: Metabolomics is the comprehensive analysis of the metabolite profiles within a biological system. r-HuEPO stimulates red blood cell production, thereby enhancing maximal oxygen delivery to the tissues. The ergogenic potential of r-HuEPO, demonstrated through improved aerobic capacity and performance has reported r-HuEPO to be the most widely abused erythropoietic stimulant till date. This study was aimed at determining the effects of r-HuEPO on the human metabolome by analyzing metabolites from blood plasma and urine. Analysis of these metabolites was then used to determine how such metabolic interactions affected physiological status and exercise performance. Three well trained individuals participated in the study. Blood and urine were collected from the subjects. Plasma and urine samples were analyzed for metabolites by LC-MS Orbitrap and data was analyzed in the form of heatmaps and PCA plots. Further data interpretations for metabolites of interest were performed by a software, mzMatch/PeakML. Analysis of the human metabolome revealed 1000 metabolites which...



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