Metabolomics and environmental stressors

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The increasing worldwide contamination, anthropogenic pressures and global warming are of current concern for the scientific community, demanding novel information about the effects of these pressures on living organisms. Metabolomics have emerged as an integral way to identify these effects. Metabolomics are -omics studies that try to characterize most relevant metabolites which have suffered changes in response to an external factor. These factors or environmental stressors encompass abiotic factors (salinity, temperature stress, anoxia), contamination (pesticides, metals, plasticizers...) and other factor such as overpopulation, food and water scarcity, etc. Studies on the metabolomics changes in stressed aquatic organisms to: (i) identify biomarkers of exposure; (ii) elucidate modes of toxicity; (iii) discern the metabolic routes affected by the environmental stressor. This session wants to join researchers involved in environmental metabolomics, specially related to the development of analytical methods, treatment of databases using chemometrics or other multivariate tools, identification of toxicological endpoints and finally, their integration for real case studies. Abstracts related to environmental omics in any of the aspects mentioned above will be welcome so that we can learn from this exciting subject and have fruitful and rewarding discussions.