

## **THE AOHUPO Membrane Proteomics Initiative**

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AOHUPO has chosen membrane proteomics as a research theme. This Membrane Proteomics Initiative (MPI) is relevant to the larger goals of HUPO in characterising the human proteome and to the biologically more diverse interests of the countries in the AOHUPO region. There is therefore a human focus but also relevance to microbial, plant and animal proteomics. This initiative was selected because of the importance and challenge of membrane proteomics. Membrane proteins are calculated to represent a large fraction of genomes, are essential in processes including signal reception and transduction, are implicated in disease and are important targets for industry. Further information is available at [www.aohupo.org](http://www.aohupo.org)

Phase I of the MPI is technology development. A membrane standard has been prepared for distribution to the participating laboratories. A range of proteomics methods will be tested and compared with the goal of defining optimum analytical methods for the various kinds of membrane proteins including trans-membrane proteins with multiple membrane spanning domains. The MPI standard has been prepared from the large lobe of livers from male 10-11 week old C57BL/6J mice. Preparation and distribution of this standard has been generously supported by GE Healthcare.