

Abstract

In the past twenty years there has been a lot of research done on ABC transporters. This group of membrane transporters was recognized as highly important due to its ubiquity in living organisms and due to the involvement of some of the ABC transporters in multidrug resistance of cancer cells and pathogens against chemotherapeutics. This medical aspect of ABC transporters was naturally the most important one for the majority of researchers. On the other hand, the biological aspects and evolution of many ABC transporters remained untouched. In this work I give an overview of ABC transporters of parasitic protozoa and focus on the evolutionary aspect of eukaryotic transporters and on mitochondrial ABC transporters, which are the most conserved ones among eukaryotic ABC transporters.