A preliminary study of AMS 14C dating on lake waters

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On behalf of the Department of Human Genetics of the Faculty of Medicine, University of Debrecen it is my pleasure to welcome you at the 5th Central-Eastern European Congress on Free Nucleic Acids in Debrecen.

Recent advances in free nucleic acid research gave a great opportunity to introduce them into the clinical practice. Application of freeDNA in the prenatal detection of genetic disease is already in the routine service as non-invasive prenatal testing (NIPT). There is a great interest to use cell-free nucleic acids obtained by „liquid biopsy” in the field of oncology and there is a promising possible application in cardiovascular diseases. Microvesicle encapsulation of the cfNAs makes the research more exciting and it is a great challange to find out the biological role of these particles in the preservation of homeostasis and in the development of diseases. The possibity of horizontal gene transfer catched the sight of several scientists (genometastasis).

We invited several world famous scientist from this field to share their knowledge with Central-Eastern European researchers and clinicians.

The tradition of the organizing the Central-Eastern European Symposium on Free Nucleic Acids started in Budapest in 2010, and was followed by symposiums in Olomouc (2012), in Martin (2014) and in Split (2016).

The previous meetings topic was mainly research and application on cfNAs in the prenatal diagnosis, this year we extended it to oncological and cardiovascular diseases. Famous invited speakers on this field help us to understand the latest developments.