



Mendel University in Brno – initiator of the Metallomics Scientific Network formation

The researchers from Laboratory of Metallomics and Nanotechnologies at Department of Chemistry and Biochemistry of Mendel University in Brno were, in connection to their research priorities, interested in the idea to create a cooperating partner network joining the excellent central European laboratories focused on the metallomic research. The effort in this area was supported by the project of The International Visegrad Fund, which is devoted to both creation and support of the close collaboration between citizens and institutions in the Visegrad Group countries as well as the cooperation of these countries with other states and regions.

The main goal of the project *Metallomic Scientific Network* is to create the metallomic network joining the partners, which will collaborate in the long-term horizon on the common projects. Laboratory of Metallomics and Nanotechnologies sees the perspective area of its research in metallomics – the progressive scientific field focused on rapid and noninvasive methods of determination, localization and treatment of cancer.

The newly formed network enables the Laboratory of Metallomics and Nanotechnologies and the project partners to utilize the scientific potential, diversify the research tasks and contribute to their solution. The obtained results will be available to all partners, which contribute to the project and future potential cooperation by their obtained results and their opinion on the possibilities of the solution of the research tasks. The viability of the Network is confirmed by the former successful collaboration with the Faculty of Pharmacy of the Wrocław Medical University on the metallothionein research. The results of this research focused on determination of human and rabbit metallothionein by Brdicka reaction and mass spectrometry were published in FEBS Journal Supplement. Furthermore, the cooperation on the investigation of the metallothionein influence on the zinc bioavailability could have the essential impact on the understanding of mechanisms regulating the life processes at the molecular level.

The organization necessities connected to the formation of the Metallomic Scientific Network were the discussed at several video-discussion at which each partner introduced himself, results obtained in his laboratory and scientific stuff. Even though Laboratory of Metallomics and Nanotechnologies cooperated with all partners individually in the past, the video-discussion was the first contact with each other. The following video-discussions were focused not only on scientific topics but also on arrangement of two personal meetings of the partners at Metallomics and Technology Conference in Brno and Workshop in Debrecen.

The developed *Metallomic Scientific Network* is a framing element for the collaboration between excellence science center at Mendel University in Brno – Laboratory of Metallomics and Nanotechnologies and other partners of the project such as Slovak University of Technology in Bratislava, Wrocław Medical University and University of Debrecen. It is also opened to other collaborators including universities and research institutions seeking collaboration in the area of metallomics and relating fields.



Websites of the project:

http://web2.mendelu.cz/af_239_nanotech/V4dp.php?ip=138

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Illustrating photography

Photography showing researchers of the Laboratory Metallomics and Nanotechnologies working on the research tasks within the developed Metallic Scientific Network



Figure No. 01



Figure No. 02



Figure No. 03



Figure No. 04



Figure No. 05



Figure No. 06

Photography source: project Metallomic Scientific Network

Note .: If you are interested in more pictures or pictures in high definition, please contact Vlastimil Sochor, tel. + 420 545 133 312, E-mail: sochor@mendelu.cz