



RESOLUTION NO. 1/09/2018
of ReMedy International Scientific Committee

of the 4th of September 2018

regarding support
for cryogenic transmission electron microscopy system acquisition

§ 1

The ReMedy International Scientific Committee highly recommends the acquisition of a cryogenic transmission electron microscopy (cryo-TEM) system and expresses support for:

1. CeNT UW's efforts to acquire a cryo-TEM system by means of a competition for subsidizing the purchase of specialist equipment, to be organized as part of the International Research Agenda - ReMedy.
2. Increasing ReMedy's budget by the purchase value of the system referred to in para. 1 subpara. 1.

§ 2

The resolution shall enter into force on the day of its adoption.


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Prof. Peter Rehling
Chairman of the Council of CeNT UW



JUSTIFICATION

The objectives of ReMedy provide for structural analyses to be performed in live biological models. Thus, the success of the Agenda relies heavily on the availability of technologies and infrastructure enabling the structural in vivo studies to be carried out. Nowadays, the only technology suitable for determining the three-dimensional structures of large macromolecular complexes, both in vitro and within a native cellular environment, is cryogenic transmission electron microscopy, currently unavailable to CeNT UW researchers. The presence of a cryo-TEM system at CeNT will not only contribute to the progress of ReMedy, but additionally, strengthen the overall expertise and stimulate research interests throughout the Centre and regionally. Moreover, the cryo-TEM will fit into the national concept providing for a core high-end electron microscope to be localized at the National Cryo-Electron Microscopy Center (NCEMC) in Cracow, supported by a network of fully compatible screening cryo-electron microscopes, to be used for sample preprocessing. To further this concept, once in possession of a cryo-TEM system, CeNT UW researchers are expected to work closely together with the NCEMC, to organize workshops in Cracow and Warsaw, aimed at training a critical mass of young scientists. Furthermore, members of the NCEMC are putative external users of the CeNT UW's cryo-electron microscopy resources.