

## HONORS MEDALS

### Description:

MU medals will be awarded on the occasion 100 years of MU which will be held on 6.3.2019. CEITEC MU can nominate 2 persons to silver medals. The nominations have to be approved by Scientific Board.

### Nominations of CEITEC MU:

#### Pavel Plevka

##### Reason for the proposal:

Pavel Plevka works at the Central European Institute of Technology of Masaryk University (CEITEC MU). He is an internationally recognized expert in the field of structural studies of viruses and bacteriophages using cryo-electron microscopy and protein crystallography. His laboratory, the first in the Czech Republic, determined the structure of macromolecules with atomic resolution using cryo-electron microscopy. His research on tick-borne encephalitis, human pikornavir and bee virus at the Masaryk University has been published in major scientific journals, including four articles in the PNAS and one in Nature Communications - Pavel Plevka is the corresponding author. In total, Pavel Plevka is the author of 43 publications with more than 610 citations.

Pavel Plevka's research and pedagogical work have significantly contributed to the development of cryo-electron microscopy of macromolecules in the Czech Republic. He was the first researcher of the European Research Council (ERC) grant at Masaryk University and he was awarded the Neuron Prize for Young Scientists in 2016. In 2014, he received the Masaryk University Rector's Prize as an Outstanding Award in the International Grant Competition and the award of the CEITEC MU Institute for Extraordinary publication results in 2017.

Pavel Plevka is a significant part of the development of junior scientists at CEITEC MU. He teaches in English the subjects at MU: Structural and Molecular Virology, Structural Biology Methods and Publish or Perish the Art of Scientific Writing. One of his PhD students was awarded by the MEYS Prize and the Czech Head in the Doctorandus category in 2017.

Pavel Plevka is actively contributing to the development of the CEITEC MU; he is a member of advisory bodies, namely the CEITEC Scientific Board, the CEITEC MU Strategy Commission, the Dislocation Commission of CEITEC MU. He is also a user member of the Cryo-Electron Microscopy and Tomography and X-ray diffraction and Bio-SAXS core facilities.

#### Vladimír Sklenář

##### Reason for the proposal:

Prof. Vladimír Sklenář is an internationally recognized expert in nuclear magnetic resonance and its applications for the study of biomolecular systems. In 2011-2016, he was the Coordinator of the CEITEC Structural Biology Research Program and the Head of the Center for Structural Biology of CEITEC MU. He has significantly contributed to developing this discipline at Masaryk University through his scientific, pedagogical and managerial activities. At present, he is a leader of CEITEC's Management for Research Infrastructures, he leads the Czech Integrated Structure Biology Infrastructure (CIISB) and he represents the Czech Republic in the Executive Committee and the Council of the European Research Consortium INSTRUCT-ERIC.

Prof. Sklenář studied chemistry at MU (then UJEP) specializing in physical chemistry in 1974. Since the end of the 70s he has been involved in Nuclear Magnetic Resonance Spectroscopy, first at the Institute of Instrumentation of the ASCR and since 1995 at Masaryk University. During his scientific career, he published more than 140 original journals in internationally acclaimed periodicals. Prof. Sklenář's papers were 9261 times cited (to 20.10.2018), h-index = 39 according to Web of Science, Researcher ID = F-9118-2011 and 10,654 times cited, h-index 43 according to Google Scholar, profil Vladimir Sklenar.

Prof. Sklenář's research significantly contributed to the development of multidimensional NMR spectroscopy of nucleic acids and proteins. In the 1980s, these were primarily methodical studies aimed at measuring NMR spectra in the aqueous medium and obtaining chemical shifts of the carbon and nitrogen atoms by means of indirect proton detection methods. Since the 1990s, Prof. Sklenář's is focused to methods of isotopically assisted NMR spectroscopy of biopolymers. The scope of his research is very wide and covers both the protein and nucleic acids, both by studying the spatial arrangement of these biomacromolecules and their dynamics. In recent years, the research of his group has focused on the characterization of conformational states of unordered or partially disorganized proteins using non-uniform sampling methods and nonstandard methods of signal processing of highly dimensional NMR spektra.

Prof. Sklenář was PI of a large number of projects. The most important at the national level was the project Biomolecular Center LC0603 from the Ministry of Education, Youth and Sports in the period 2005-2011 with a subsidy exceeding CZK 56 million and the OPVK INBIOR project (approx. CZK 40 million) in 2011-2014. At present, he is the investigator of the CIISB LM2015043 with a subsidy of CZK 154.470 million and CIISB4HEALTH CZ.02.1.01 / 0.0 / 0.0 / 16\_013 / 0001776 with a subsidy of CZK 250.978 million. Thanks to his international reputation, prof. Sklenář also participated in a number of international projects funded by the EU's 6th and 7th FP and H2020 (FSG-V-RNA, East-NMR, Bio-NMR, iNEXT, Instruct-Ultra). He is also a member of the Czech Republic of the Executive Committee and the ESFRI Board of the INSTRUCT-ERIC project. Thanks to his activities, the Czech Integrated Structure Biology Infrastructure (CIISB) was created with the status of the INSTRUCT-ERIC Center, which associated CEITEC and BIOCEV (OP VaVpl projects).

Professor Sklenář is a member of the editorial board of the Journal of Biomolecular NMR and the Central European Journal of Chemistry. He has also worked for many years as a member of the editorial board of the Magnetic Resonance Journal. He was awarded by the Prize of the Czech Learned Society in 2001 and in 2002 became his regular member. He was also awarded by the Medal of Jan Marka Marci from Kronland of the Czech Spectroscopic Society for Excellent Scientific Achievements in the Field of Nuclear Magnetic Resonance and the Vladimír Hanuš and Petr Sedmera Prize for 2012. He also received CEITEC MU award for an Extraordinary Contribution to the Development of this Institute in 2016 for organizing the most important international events of CEITEC MU in 2017.