

**International Chemical Congress of Pacific Basin Societies (Pacifichem 2021), Honolulu, Hawaii, USA, 16-21.XII.2021**

J. Dybas, A. Blat, K. Bulat, T. Mohaissen, A. Wajda, F. C. Alcicek, E. Szczesny-Malysiak, K. Malek, S. Chlopicki, K.M. Marzec, *Vibrational spectroscopy approach in understanding erythropathies related to atherosclerosis and heart failure*, 2021 International Chemical Congress of Pacific Basin Societies (Pacifichem 2021), Honolulu, Hawaii, USA, 16-21 XII 2021 - oral presentation (Opus)

E. Szczesny-Malysiak, M. Kaczmarska, A. Blat, A. Wajda, J. Dybas, K. Bulat, T. Mohaissen, K. Malek, K.M. Marzec, *Multimodal insight into the temporal sequence of changes in human packed red blood cells during storage*, 2021 International Chemical Congress of Pacific Basin Societies (Pacifichem 2021), Honolulu, Hawaii, USA, 16-21 XII 2021 - oral presentation (Lider)

**Europeans Society of Cardiology Congress 2021 (ESC Congress 2021), 27-30.VIII.2021**

F.C. Alcicek, T. Mohaissen, K. Bulat, E. Szczesny-Malysiak, J. Dybas, U. Tyrankiewicz, M. Kaczmarska, K.M. Marzec, S. Chlopicki, *Fall in the ATP levels in the red blood cells in ApoE-LDLR double-deficient mice model prior to atherosclerosis development*, Europeans Society of Cardiology Congress 2021 (ESC Congress 2021), 27-30 VIII 2021 – e-poster presentation (Opus)

**11th International Conference on Advanced Vibrational Spectroscopy (ICAVS 11), Krakow, Poland, 23-26.VIII.2021**

E. Szczesny-Malysiak, A. Blat, J. Dybas, M. Kaczmarska, K. Bulat, A. Wajda, K.M. Marzec, *Detection of changes in the hemoglobin structure inside intact erythrocytes with use of vibrational spectroscopy*, 11th International Conference on Advanced Vibrational Spectroscopy (ICAVS 11), Krakow, Poland, 23-26 VIII 2021 – oral presentation (Lider)

J. Dybas, T. Chiura, K. M. Marzec, P. J. Mak, *Detection of the molecular alterations of hemoglobin structures inside living red blood cells and isolated proteins*, 11th International Conference on Advanced Vibrational Spectroscopy (ICAVS 11), Krakow, Poland, 23-26 VIII 2021 – oral presentation (Preludium)

T. Stepanenko, A. Czajkowski, A. Gorecki, K. M. Marzec, J. Dybas, *Analysis of the molecular structure of the porphyrin system inside "green erythrocytes" using molecular spectroscopy techniques*, 11th International Conference on Advanced Vibrational Spectroscopy (ICAVS 11), Krakow, Poland, 23-26 VIII 2021 – flash presentation (POB BioS)

**2nd Joint Meeting of The European Society for Clinical Hemorheology and Microcirculation, The International Society for Clinical Hemorheology, and The International Society of Biorheology (ESCHM-ISCH-ISB 2021), Fukuoka, Japan, 4-7.VII.2021**

E. Szczesny-Malysiak, M. Kaczmarska, K. Bulat, A. Zimna, F.C. Alcicek, J. Dybas, K.M. Marzec, *A link between storage-related sequence of nanoscale changes in RBC membranes and their biochemical and morphological properties*, 2nd Joint Meeting of The European Society for Clinical Hemorheology and Microcirculation, The International Society for Clinical Hemorheology, and The International Society of Biorheology (ESCHM-ISCH-ISB 2021), Fukuoka, Japan, 4-7 VII 2021 – oral presentation (Lider)