

45 Zjazd Fizyków Polskich (ang. 45th Congress of Polish Physicists), 13-18. IX.2019.

K. M. Marzec, *Zastosowanie spektroskopii oscylacyjnej i technik komplementarnych w obrazowaniu biomarkerów zmian chorobowych (ang. The application of vibrational spectroscopy supported by complementary techniques for the imaging of biomarkers of chosen diseases)*, 45 Zjazd Fizyków Polskich, 13-18.09.2019 – invited lecture (Opus).

Seminarium wewnętrzne Katedry i Kliniki Hematologii UJ CM (ang. Internal Seminar of the Chair and Clinic of Hematology UJCM), 02.IX.2019, Kraków

M. Kaczmarska, *Nanoskalowe spojrzenie na zmiany właściwości erytrocytów zachodzące w wyniku długoterminowego przechowywania koncentratów krwinek czerwonych (ang. A nanoscale view of changes in erythrocyte properties occurring as a result of long-term packed red blood cells)*, Seminarium Katedry i Kliniki Hematologii UJ CM, 02.IX.2019, Kraków – invited lecture (Lider).

10th International Conference on Advanced Vibrational Spectroscopy ICAVS10 Auckland, New Zealand, 7-12. VII. 2019

K.M. Marzec, A. Blat, J. Dybas, M. Kaczmarska, K. Bulat, A. Cernescu, K. Malek, *Multispectroscopic approach for the analysis of isolated and intact red blood cell membranes*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– oral presentation (Opus).

K.M. Marzec, J. Dybas, M. Kaczmarska, A. Rygula, A. Jaształ, M. Baranska, B. Wood, K. Bulat, *Tracking biochemical and morphological fixation-induced alterations in red blood cells*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– poster (Opus).

J. Dybas, M. Baranska, K.M. Marzec, *Formation of HbCN inside human RBCs as a model of advanced dysfunctional Hb adduct*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– poster (Lider).

J. Dybas, K. Bulat, K.M. Marzec, M. Kaczmarska, *Raman spectroscopy in studies of storage-induced damage of hemoglobin in human RBCs*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– poster (Lider).

J. Dybas, S. Chłopicki, M. Baranska, K.M. Marzec, *Studies on hemoprotein adducts and their changes in chosen biological systems by means of molecular spectroscopy*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– poster (Preludium).

K.M. Marzec, K. Chrabaszcz, K. Augustyniak, A. Jaształ, M. Smeda, S. Chłopicki, K. Malek, *A molecular insight into lung microenvironment in breast cancer metastasis - from inflamed parenchyma to perivascular and pleural metastasis*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– poster (Juventus Plus).

M.Kaczmarska, K. Kuś, J. Dybaś, K. Bulat, S. Chłopicki, K.M. Marzec, Szczęsny-Małyśiak E, *Measurement of oxidative stress markers in stored red blood cells with use of mass spectrometry combined with Raman spectroscopy*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– poster (Lider)

M. Kaczmarska, J. Dybas, M. Grosicki, M. Mardyla, K. Bulat, A. Blat, K.M. Marzec. *An insight into biochemical profile, morphology, cell surface area, and deformability of stored red blood cells*, 10th International Conference on Advanced Vibrational Spectroscopy ICAVS10, Auckland, New Zealand, 7-12. VII. 2019– poster (Lider)

27th Kraków Conference of Endothelium, Kraków, Poland 06-08. VI. 2019

K.M. Marzec, Analiza właściwości funkcjonalnych, mechanicznych i biochemicznych izolowanych i nienaruszonych błon erytrocytów mysich (*ang. Analysis of functional, mechanical and biochemical properties of isolated and intact membranes of murine erythrocytes*), 27th Kraków Conference of Endothelium, Kraków, Poland 06-08. VI. 2019 – oral presentation (Opus).

K. Bułat, Wykorzystanie metod biofotonicznych do badania nano-i micro-struktury cytoszkieletu oraz agregatów wewnątrz erytrocytów ludzkich (*ang. The use of biophotonic methods to study the nano-and micro-structures of the cytoskeleton and aggregates inside human erythrocytes*), 27th Kraków Conference of Endothelium, Kraków, Poland 06-08. VI. 2019 – oral presentation (Opus).

M. Kaczmarska, Tworzenie pęcherzyków wydzielniczych erytrocytów, na tle funkcjonalnych, mechanicznych i biochemicznych właściwości ludzkich krwinek czerwonych (*ang. Formation of erythrocyte vesicles against the background of functional, mechanical and biochemical properties of human red blood cells*), 27th Kraków Conference of Endothelium, Kraków, Poland 06-08. VI. 2019 – oral presentation (Lider).

A. Wajda, Ocena stopnia degradacji koncentratów krwinek czerwonych z zastosowaniem spektroskopii oscylacyjnej (*ang. Assessment of the degree of degradation of red blood cell concentrates with the use of vibrational spectroscopy*), 27th Kraków Conference of Endothelium, Kraków, Poland 06-08. VI. 2019 – oral presentation (Lider).