

26th Kraków Conference of Endothelium, Kraków, Poland 05-07. IX. 2018

1. K.M. Marzec, *Spektroskopia oscylacyjna i techniki komplementarne w badaniach krwinek czerwonych (ang. Vibrational spectroscopy and complementary techniques in the study of red blood cells)*, 26th Kraków Conference on Endothelium, VIII Seminarium JCET, Polana Zgorzelisko, Poland, 5–7.09.2018 – oral presentation (Opus, Lider).
2. J. Dybas, K. M. Marzec, M. Baranska, S. Chlopicki – *Kompleksy hemoglobiny w czerwonych krwinkach – badania metodami spektroskopii molekularnej – VIII Seminarium JCET*, Polana Zgorzelisko, 5 – 7.09.2018 – oral presentation (Lider).
3. M. Kaczmarska, *Badanie fizyko-chemicznych własności zdrowych i zmienionych chorobowo krwinek czerwonych.* – VIII Seminarium JCET, Polana Zgorzelisko, 5 – 7.09.2018 – oral presentation (Preludium).

Signaling Molecules and Biological Oxidants– Chemistry, Detection and Redox Biology, Politechnika Łódzka, Konopnica, Poland, 09. IX. 2018

4. M. Kaczmarska, K. Bulat, J. Dybas, A. Blat, S. Chlopicki, K.M. Marzec* “*The application of vibrational spectroscopy supported by complementary techniques to red blood cells studies*”, Signaling Molecules and Biological Oxidants– Chemistry, Detection and Redox Biology, Politechnika Łódzka, Konopnica, Poland, 09.09.2018 – invited lecture (Opus, Lider).
5. J. Dybas, S. Chlopicki, M. Baranska, K. M. Marzec – *Characterization of Hb–X adducts inside functional RBCs by means of Resonance Raman spectroscopy*, Signaling Molecules and Biological Oxidants – Chemistry, Detection and Redox Biology, Konopnica, 8–9.09.2018 (Lider).

15th Confocal Raman Imaging Symposium, WITec Focus innovations, Ulm, Germany, 24. IX. 2018

6. K.M. Marzec “*Correlative Raman Microscopy: Techniques and Applications*”, 15th Confocal Raman Imaging Symposium, WITec Focus innovations, Ulm, Germany, 24.09.2018 – invited lecture (Opus, Lider).

XXVI ICORS, 26th International Conference on Raman Spectroscopy Jeju, South Korea, 26-31. VIII. 2018

7. J. Dybas, S. Chlopicki, M. Baranska, K.M. Marzec*, *Resonance Raman Spectroscopy–based in situ characterization of HbNO, HbCO, HbCN and HbNO₂ species in functional RBCs*, XXVI International Conference on Raman Spectroscopy, ICORS, Jeju, Korea, 26–31.08.2018– poster (Opus).

XXXIV European Congress on Molecular Spectrochemistry - EUCMOS 2018 Coimbra, Portugal, 19-24. VIII. 2018

8. K.M. Marzec*, J. Dybas, A. Blat, M. Mardyla, K. Bulat, M. Baranska, S. Chlopicki, *Raman, FT–IR, AFM and complementary techniques in studies of the biochemical, mechanical and functional alterations in red blood cells*, XXXIV European Congress on Molecular Spectrochemistry – EUCMOS 2018 Coimbra, Portugal, 19–24.08.2018 – oral presentation (Opus).
9. A. Blat, J. Dybas, K. Chrabąszcz, K. Bulat, A. Jaształ, T. Popiela, A. Słowik, S. Chlopicki, K. Malek, M. G. Adamski, K.M. Marzec*, *Label-free characterization of acute ischemic stroke–retrieved clot composition with vibrational spectroscopy*, XXXIV European Congress on Molecular Spectrochemistry – EUCMOS 2018 Coimbra, Portugal, 19–24.08.2018 – poster (Opus).

10. J. Dybas, A. Blat, K. Bulat, M. Mardyla, M. Baranska, S. Chlopicki, K.M. Marzec*, *Oxidative damage of the murine RBC membrane in advanced atherosclerosis studied by vibrational spectroscopy and AFM microscopy*, XXXIV European Congress on Molecular Spectrochemistry – EUCMOS 2018 Coimbra, Portugal, 19–24.08.2018 – poster (Opus).

Joint Conference of Three Societies: The European Society for Clinical Hemorheology and Microcirculation, The International Society of Clinical Hemorheology and The International Society of Biorheology (ESCHM-ISCH-ISB-2018), Kraków, Poland, 2-6. VII. 2018

11. K. Bulat, J. Dybas, A. Blat, M. Mardyla, A. Ryguła, S. Chlopicki, M. Baranska, K.M. Marzec*, *Studies of the chemically induced changes of the mechanical properties of murine RBCs with the use of Atomic Force Microscopy (AFM)*, the Joint Conference of Three Societies: The European Society for Clinical Hemorheology and Microcirculation, The International Society of Clinical Hemorheology and The International Society of Biorheology (ESCHM–ISCH–ISB–2018), Krakow, Poland, 2–6.07.2018– poster (Opus).
12. J. Dybas, S. Chlopicki, M. Baranska, K.M. Marzec*, *Resonance Raman spectroscopy in detection and differentiation of various hemoglobin derivatives inside packed human red blood cells*, the Joint Conference of Three Societies: The European Society for Clinical Hemorheology and Microcirculation, The International Society of Clinical Hemorheology and The International Society of Biorheology (ESCHM–ISCH–ISB–2018), Krakow, Poland, 2–6.07.2018– poster (Lider).

Advanced Techniques of Vibrational Spectroscopy, Kraków, Poland 21-22. VI. 2018

13. K.M. Marzec “*Resonance Raman spectroscopy in studies of red blood cells*”, Advanced Techniques in Vibrational Spectroscopy Seminar, Faculty of Chemistry UJ, Kraków, Poland, 21.06.2018– invited lecture (Opus, Lider).
14. K. Chrabaszcz, A. Jaształ, M. Smęda, E. Buczek, S. Chlopicki, K. Malek, K.M. Marzec, *Characterization of cancer metastasis in a mice model in means of FTIR imaging spectroscopy. The comparison of sample preparation and spatial resolution*, Advanced Techniques of Vibrational Spectroscopy 21-22.06.2018 Kraków, Poland (Juventus Plus).

SPEC 2018 Glasgow, Great Britain 10-15. VI. 2018

15. K.M. Marzec*, J. Dybas, P. Berkowicz, B. Proniewski, K. Dziedzic–Kocurek, J. Stanek, M. Baranska, S. Chlopicki, *Monitoring of hemoglobin NO_x – induced adducts inside functional erythrocytes*, SPEC 2018 Shedding New Light on Disease, Glasgow, Great Britain, 10–15.06.2018– oral presentation (Opus).
16. J. Dybas, M. Grosicki, E. Maślak, S. Chlopicki, M. Baranska, K.M. Marzec*, *Raman spectroscopy studies of erythrophagocytosis in macrophages and Kupffer cells*, SPEC 2018 Shedding New Light on Disease, Glasgow, Great Britain, 10–15.06.2018 – poster (Preludium).
17. A. Blat, K. Chrabaszcz, E. Wiercigroch, M. Smęda, A. Kurpinska, J. Suraj, S. Chlopicki, K.M. Marzec, K. Malek, *Metastatic blood plasma and supernatant from lung homogenates: FTIR–based studies*, SPEC 2018 Shedding New Light on Disease, Glasgow, Great Britain, 10–15.06.2018– poster.
18. K. Chrabaszcz, A. Jaształ, M. Smeda, E. Buczek, S. Chlopicki, K. Malek, K.M. Marzec, *Impact of tissue preparation on FTIR spectra of lung cancer*, SPEC 2018 Shedding New Light on Disease, Glasgow, Great Britain, 10–15.06.2018 (Juventus Plus).

International Conference on BioMedical Photonics 2018, Montpellier - La Grande Motte, Francja 16-17. III. 2018

19. K. Chrabaszcz, K.M. Marzec, A. Jaształ, M. Smeda, S. Chłopicki, K. Malek, *Imaging of the biomarkers of an early stage of lung metastasis in a murine model of breast cancer by rapid FTIR screening*, International Conference on BioMedical Photonics 2018, Montpellier – La Grande Motte, France, 16–17.03.2018 – poster (Juventus Plus).

ASC Winter School 2018, Faculty of Chemistry UJ, Kraków, Poland, 28. II. 2018

20. K.M. Marzec “*Resonance Raman Spectroscopy – fundamentals and biomedical applications*”, ASC Winter School 2018, Faculty of Chemistry UJ, Kraków, Poland, 28.02.2018– invited lecture (Opus, Lider).