Publikace (od roku 2015):

**2023**

SVOBODA, N.; KOČÍ, K.; SEIDLOVÁ, A.; MANDYS, V.; SUTTNAR, J.; HLAVÁČKOVÁ, A.; ET AL. Oxidative stress as a reliable biomarker of carotid plaque instability: a pilot study. Antioxidants. 2023, vol. 12, no. 2, art. no. 506. ISSN 2076-3921.

**2022**

**CEZNEROVÁ, E.**; KAUFMANOVÁ, J.; **SOVOVÁ, Ž.**; **ŠTIKAROVÁ, J.**; **LOUŽIL, J.**; **KOTLÍN, R.**; **SUTTNAR, J.** Structural and functional characterization of four novel fibrinogen mutations in FGB causing congenital fibrinogen disorder. International journal of molecular sciences. 2022, vol. 23, no. 2, art. no. 721. ISSN 1422-0067.

**SOVOVA, Z.**; **PECANKOVA, K.**; **MAJEK, P.**; **SUTTNAR, J.** Extension of the human fibrinogen database with detailed clinical information: the αc‐connector segment. International journal of molecular sciences. 2022, vol. 23, no. 1, art. no. 132. ISSN 1422-0067.

KOSEK, V.; HAJŠL, M.; BECHYŇSKÁ, K.; KUČERKA, O.; **SUTTNAR, J.**; **HLAVÁČKOVÁ, A.**; ET AL. Long-term effects on the lipidome of acute coronary syndrome patients. Metabolites. 2022, vol. 12, no. 2, art. no. 124. ISSN 2218-1989.

MALY, M.; **RIEDEL, T.**; **STIKAROVA, J.**; **SUTTNAR, J.**; **KOTLIN, R.**; HAJSL, M.; TOUSEK, P.; **KAUFMANOVA, J.**; KUCERKA, O.; WEISEL, J.W.; **DYR, J.E.** Incorporation of fibrin, platelets, and red blood cells into a coronary thrombus in time and space. Thrombosis and haemostasis. 2022, vol. 122, no. 3, s. 434-444. ISSN 0340-6245.

CEZNEROVÁ, E.; KAUFMANOVÁ, J.; ŠTIKAROVÁ, J.; PASTVA, O.; LOUŽIL, J.; CHRASTINOVÁ, L.; SUTTNAR, J.; KOTLÍN, R.; DYR, J.E. Thrombosis-associated hypofibrinogenemia: novel abnormal fibrinogen variant FGG c.8G>A with oxidative posttranslational modifications. *Blood coagulation & fibrinolysis.* 2022, vol. 33, no. 4, s. 228-237. ISSN 0957-5235.

PECANKOVA, K.; PECHERKOVA, P.; GASOVA, Z.; SOVOVA, Z.; RIEDEL, T.; JÄGER, E.; CERMAK, J.; MAJEK, P. Proteome changes of plasma-derived extracellular vesicles in patients with myelodysplastic syndrome. *PLoS one.* 2022, vol. 17, no. 1, art. no. e0262484. ISSN 1932-6203.

PECANKOVA, K.; CERMAK, J.; MAJEK, P. Proteomic case studies of MDS in progression: heterogeneity and more heterogeneity. *Turkish Journal of Hematology.* 2022, vol. 39, no. 4, s. 272-274. ISSN 1300-7777.

MAJEK, P.; SOVOVA, Z.; PECANKOVA, K.; CERMAK, J.; GASOVA, Z.; PECHERKOVA, P.; IGNJATOVIC, V.; DYR, J.E. Mass spectrometry, data re-analysis, and homology modelling predict posttranslational modifications of leucine-rich alpha-2-glycoprotein as a marker of myelodysplastic syndrome. *Cancer biomarkers.* 2022, vol. 34, no. 3, s. 485-492. ISSN 1574-0153.

RIEDEL, T.; DE LOS SANTOS PEREIRA, A.; TÁBORSKÁ, J.; RIEDELOVÁ, Z.; POP-GEORGIEVSKI, O.; MÁJEK, P.; PEČÁNKOVÁ, K.; ET AL. Complement activation dramatically accelerates blood plasma fouling on antifouling poly(2-hydroxyethyl methacrylate) brush surfaces. *Macromolecular bioscience.* 2022, vol. 22, no. 3, art. no. e2100460. ISSN 1616-5187.

RIEDELOVÁ, Z.; PEREIRA, A.; SVOBODA, J.; POP-GEORGIEVSKI, O.; MÁJEK, P.; PEČÁNKOVÁ, K.; DYČKA, F.; RODRIGUEZ-EMMENEGGER, C.; RIEDEL, T. The relation between protein adsorption and hemocompatibility of antifouling polymer brushes. *Macromolecular bioscience.* 2022, vol. 22, no. 11, art. no. e2200247. ISSN 1616-5187.

LOUZIL, J.; STIKAROVA, J.; PROVAZNIKOVA, D.; HRACHOVINOVA, I.; FENCLOVA, T.; MUSIL, J.; RADEK, M.; KAUFMANOVA, J.; GEIEROVA, V.; CEZNEROVA, E.; SALAJ, P.; KOTLIN, R. Diagnosing Czech patients with inherited platelet disorders. *International journal of molecular sciences.* 2022, vol. 23, no. 22, art. no. 14386. ISSN 1422-0067.

VALENTA, J.; HLAVACKOVA, A.; STACH, Z.; STIKAROVA, J.; HAVLICEK, M.; MICHALEK, P. Fibrinogenolysis in venom-induced consumption coagulopathy after Viperidae snakebites: a pilot study. *Toxins.* 2022, vol. 14, no. 8, art. no. 538. ISSN 2072-6651 [on-line].

**2021**

**KAUFMANOVA, J.**; **STIKAROVA, J.**; **HLAVACKOVA, A.**; **CHRASTINOVA, L*.***; MALY, M.; **SUTTNAR, J.**; **DYR, J.E.** Fibrin clot formation under oxidative stress conditions. Antioxidants. 2021, vol. 10, no. 6, art. no. 923. ISSN 2076-3921.

MALÝ, M.; HAJŠL, M.; BECHYŇSKÁ, K.; KUČERKA, O.; ŠRÁMEK, M.; **SUTTNAR, J.**; **HLAVÁČKOVÁ, A.**; HAJŠLOVÁ, J.; KOSEK, V. Lipidomic analysis to assess oxidative stress in acute coronary syndrome and acute stroke patients. Metabolites. 2021, vol. 11, no. 7, art. no. 412. ISSN 2218-1989.

KORALKOVA, P.; **BELICKOVA, M.**; **KUNDRAT, D.**; **DOSTALOVA MERKEROVA, M.**; **KREJCIK, Z.**; **SZIKSZAI, K.**; **KAISRLIKOVA, M.**; **VESELA, J.**; VYHLIDALOVA, P.; STETKA, J.; **HLAVACKOVA, A.**; **SUTTNAR, J.**; FLODR, P.; STRITESKY, J.; JONASOVA, A.; **CERMAK, J.**; DIVOKY, V. Low plasma citrate levels and specific transcriptional signatures associated with quiescence of CD34+ progenitors predict Azacitidine therapy failure in MDS/AML patients. Cancers. 2021, vol. 13, no. 9, art. no. 2161. ISSN 2072-6694.

**SOVOVA, Z.**; **SUTTNAR, J.**; **DYR, J.E.** Molecular dynamic simulations suggest that metabolite-induced post-translational modifications alter the behavior of the fibrinogen coiled-coil domain. Metabolites. 2021, vol. 11, no. [nečíslováno], art. no. 307. ISSN 2218-1989.

BALÁŠ, J.; GAJDOŠÍK, J.; KRUPKOVÁ, D.; **CHRASTINOVÁ, L.**; **HLAVÁČKOVÁ, A.**; BAČÁKOVÁ, R.; GILES, D. Psychophysiological responses to treadwall and indoor wall climbing in adult female climbers. Scientific reports. 2021, vol. 11, no. 1, art. no. 2639. ISSN 2045-2322.

Maly, M.; Riedel, T.; Stikarova, J.;Suttnar, J.; Kotlin, R.; Hajsl, M.; Tousek, P.; Kaufmanova, J.; Kucerka, O.; Weisel, J.W.; Dyr, J.E. Incorporation of Fibrin, Platelets, and Red Blood Cells into a Coronary Thrombus in Time and Space. *Thromb Haemost*. 2021 Nov 15. doi: 10.1055/s-0041-1739193. Epub ahead of print. PMID: 34781375.

**2020**

SIMURDA, T.; VILAR, R.; ZOLKOVA, J.; **CEZNEROVA, E.;** ET AL. A novel nonsense mutation in fgb (C.1421g>a, p.trp474ter) in the beta chain of fibrinogen causing hypofibrinogenemia with bleeding phenotype. Biomedicines. 2020, vol. 8, no. 12, art. no. 605. ISSN 2227-9059.

HAJSL, M.; **HLAVACKOVA, A.**; BROULIKOVA, K.; SRAMEK, M.; MALY, M.; **DYR, J.E.**; **SUTTNAR, J.** Tryptophan metabolism, inflammation, and oxidative stress in patients with neurovascular disease. Metabolites. 2020, vol. 10, no. 5, art. no. 208. ISSN 2218-1989.

**SOVOVÁ, Ž.**; **ŠTIKAROVÁ, J.**; KAUFMANOVÁ, J.; **MÁJEK, P.**; **SUTTNAR, J.**; ŠÁCHA, P.; MALÝ, M.; **DYR, J.E.** Impact of posttranslational modifications on atomistic structure of fibrinogen. PLoS one. 2020, vol. 15, no. 1, art. no. e0227543. ISSN 1932-6203.

KOSEK, V.; HECZKOVA, M.; NOVAK, F.; MEISNEROVA, E.; NOVAKOVA, O.; ZELENKA, J.; BECHYNSKA, K.; VRZACOVA, N.; **SUTTNAR, J.**; **HLAVACKOVA, A.**; ET AL. The omega-3 polyunsaturated fatty acids and oxidative stress in long-term parenteral nutrition dependent adult patients: functional lipidomics approach. Nutrients. 2020, vol. 12, no. 8, art. no. 2351. ISSN 2072-6643.

**2019**

**CHRASTINOVÁ, L.**; **PASTVA, O.**; BOCKOVÁ, M.; LYNN, N.S.: ŠÁCHA, P.; HUBÁLEK, M.; **SUTTNAR, J.**; **KOTLÍN, R.**; **ŠTIKAROVÁ, J.**; **HLAVÁČKOVÁ, A.**; **PIMKOVÁ, K.**; **ČERMÁK, J.**; HOMOLA, J.; **DYR, J.E.** A new approach for the diagnosis of myelodysplastic syndrome subtypes based on protein interaction analysis. Scientific reports. 2019, vol. 9, no. [September], art. no. 12647. ISSN 2045-2322.

BECHYNSKA, K.; DASKOVA, N.; VRZACKOVA, N.; HARANT, K.; HECZKOVA, M.; PODZIMKOVA, K.; BRATOVA, M.; DANKOVA, H.; BERKOVA, Z.; KOSEK, V.; ZELENKA, J.; HAJSLOVA, J.; SEDLACEK, R.; **SUTTNAR, J.**; **HLAVACKOVA, A.**; ET AL. The effect of omega-3 polyunsaturated fatty acids on the liver lipidome, proteome and bile acid profile: parenteral versus enteral administration. Scientific reports. 2019, vol. 9, no. 1, art. no. 19097. ISSN 2045-2322.

PETROKOVÁ, H.; MAŠEK, J.; KUCHAŘ, M.; WÜNSCHOVÁ, A.; **ŠTIKAROVÁ, J.**; BARTHELDYOVÁ, E.; KULICH, P.; HUBATKA, F.; KOTOUČEK, J.; TURÁNEK KNOTIGOVÁ, P.T.; VOHLÍDALOVÁ, E.; HÉŽOVÁ, R.; MAŠKOVÁ, E.; MACAULAY, S.; **DYR, J.E.**; ET AL. Targeting human thrombus by liposomes modified with anti-fibrin protein binders. Pharmaceutics. 2019, vol. 11, no. 12, art. no. 642. ISSN 1999-4923.

**NEUPAUEROVÁ, J.**; **VRANÁ, M.**; **RATAJOVÁ, E.**; **NAZAROVÁ, S.**; **PŮBALOVÁ, Š.**; **ŠÁLEK, C.**; CRIVELLO, P.; **BŘEZINOVÁ, J.**; **BELIČKOVÁ, M.**; **DYR, J.E.** The formation of a somatic mutation in the HLA-B gene throughout the development of the disease from severe aplastic anaemia to acute myeloid leukaemia. HLA. 2019, vol. 94, no. S2, s. 30-33. ISSN 2059-2302.

**PASTVA, O.**; **CHRASTINOVA, L.**; BOCKOVA, M.; **KOTLIN, R.**; **SUTTNAR, J.**; **HLAVACKOVA, A.**; **STIKAROVA, J.**; **CEZNEROVA, E.**; **CERMAK, J.**; HOMOLA, J.; **DYR, J.E.** Hsp70 trap assay for detection of misfolded subproteome related to myelodysplastic syndromes. Analytical chemistry. 2019, vol. 91, no. 22, s. 14226-14230. ISSN 0003-2700.

**KREJCIK, Z.**; **BELICKOVA, M.**; **HRUSTINCOVA, A.**; **VOTAVOVA, H.**; JONASOVA, A.; **CERMAK, J.**; **DYR, J.E.**; **MERKEROVA, M.D.** MicroRNA profiles as predictive markers of response to azacitidine therapy in myelodysplastic syndromes and acute myeloid leukemia. Cancer biomarkers. 2018, vol. 22, no. 1, s. 101-110. ISSN 1574-0153.

**2018**

RIEDELOVÁ, Z.; **MÁJEK, P.**; **PEČÁNKOVÁ, K.**; KUČEROVÁ, J.; SURMAN, F.; PEREIRA, A. DE LOS SANTOS; RIEDEL, T. SPR biosensor for quantification of fetuin-A as a promising multibiomarker. Physiological research. 2018, roč. 67, č. S2, s. S367-S375. ISSN 0862-8408.

**DYR, J.E.** Nové poznatky o hemostáze. Transfuze a hematologie dnes. 2018, roč. 24, č. S2, s. 16-18. ISSN 1213-5763.

Srutova, K.; Curik, N.; Burda, P.; Savvulidi, F.; Silvestri, G.; Trotta, R.; Klamova, H.; Pecherkova, P.; Sovova, Z.; Koblihova, J.; Stopka, T.; Perrotti, D.; Machova Polakova, K.BCR-ABL1 mediated miR-150 downregulation through MYC contributed to myeloid differentiation block and drug resistance in chronic myeloid leukemia. *Haematologica*. 2018, vol. 103, no. 12, s. 2016-2025. ISSN 1592-8721.

**2017**

**PECANKOVA, K.**; **MAJEK, P.**; **CERMAK, J.**; **DYR, J.E.** Posttranslational modifications of red blood cell ghost proteins as ´signatures´ for distinguishing between low- and high-risk myelodysplastic syndrome patients. Turkish Journal of Haematology. 2017, vol. 34, no. 1, s. 111-113. ISSN 1300-7777.

**HLAVÁČKOVÁ, A.**; **ŠTIKAROVÁ, J.**; **PIMKOVÁ, K.**; **CHRASTINOVÁ, L.**; **MÁJEK, P.**; **KOTLÍN, R.**; **ČERMÁK, J.**; **SUTTNAR, J.**; **DYR, J.E.** Enhanced plasma protein carbonylation in patients with myelodysplastic syndromes. Free radical biology & medicine. 2017, vol. 108, no. [July], s. 1-7. ISSN 0891-5849.

**KOTLÍN, R.**; **CEZNEROVÁ, E.**; **LOUŽIL, J.**; **ŠTIKAROVÁ, J.**; **PASTVA, O.**; **SUTTNAR, J.**; **SALAJ, P.**; **DYR, J.E.** Dysfibrinogenemie a afibrinogenemie v České republice. Transfuze a hematologie dnes. 2017, roč. 23, č. S1, s. 8-19. ISSN 1213-5763.

**MAJEK, P.**; **PECANKOVA, K.**; **CERMAK, J.**; **GASOVA, Z.**; **PROCHAZKA, B.**; **DYR, J.E.** Alpha-2-HS-glycoprotein plasma level decrease correlates with age in patients with myelodysplastic syndromes. Cancer biomarkers. 2017, vol. 20, no. 4, s. 637-639. ISSN 1574-0153.

BALÁŠ, J.; GILES, D.; **CHRASTINOVÁ, L.**; KÁRNÍKOVÁ, K.; KODEJŠKA, J.; **HLAVÁČKOVÁ, A.**; VOMÁČKO, L.; DRAPER, N. The effect of potential fall distance on hormonal response in rock climbing. Journal of sports sciences. 2017, vol. 35, no. 10, s. 989-994. ISSN 0264-0414.

**2016**

HIMMLOVA, L.; KUBIES, D.; HULEJOVA, H.; BARTOVA, J.; RIEDEL, T.; **STIKAROVA, J.**; **SUTTNAR, J.**; PESAKOVA, V. Effect of blood component coatings of enosseal implants on proliferation and synthetic activity of human osteoblasts and cytokine production of peripheral blood mononuclear cells. Mediators of inflammation [online]. 2016, vol. 2016, no. 1, art. no. 8769347 [cit. 2019-08-07]. ISSN 0962-9351 [open access]. Dostupný z WWW: <http://dx.doi.org/10.1155/2016/8769347>.

RIEDEL, T.; **MÁJEK, P.**; RIEDELOVÁ-REICHELTOVÁ, Z.; VOROBII, M.; HOUSKA, M.; RODRIGUEZ-EMMENEGGER, C. Total removal of intact blood plasma proteins deposited on surface-grafted polymer brushes. Analytical methods: advancing methods and applications. 2016, vol. 34, no. 8, s. 6415-6419. ISSN 1759-9660.

**2015**

**MAJEK, P.**; **PECANKOVA, K.**; MALY, M.; ORAVEC, M.; **RIEDEL, T.**; **DYR, J.E.** N-glycosylation of apolipoprotein A1 in cardiovascular diseases. Translational research. 2015, vol. 165, no. 2, s. 360-362. ISSN 1931-5244.

VAISOCHEROVÁ, H.; ŠÍPOVÁ, H.; VÍŠOVÁ, I.; BOCKOVÁ, M.; ŠPRINGER, T.; LAURA ERMINI, M.; SONG, X.; **KREJČÍK, Z.**; **CHRASTINOVÁ, L.**; **PASTVA, O.**; **PIMKOVÁ, K.**; **DOSTÁLOVÁ MERKEROVÁ, M.**; **DYR, J.E.**; HOMOLA, J. Rapid and sensitive detection of multiple microRNAs in cell lysate by low-fouling surface plasmon resonance biosensor. Biosensors and bioelectronics. 2015, vol. 70, no. [March], s. 226-231. ISSN 0956-5663.

**MAJEK, P.**; **PECANKOVA, K.**; **CERMAK, J.**; **GASOVA, Z.**; **DYR, J.E.** Retinol binding protein 4 plasma level in myelodysplastic syndrome subgroups. International journal of laboratory hematology. 2015, vol. 37, no. 5, s. E127-E128. ISSN 1751-5521.

**MAJEK, P.**; **PECANKOVA, K.**; **CERMAK, J.**; **DYR, J.E.** Plasma protein biomarker candidates for myelodysplastic syndrome subgroups. BioMed research international [online]. 2015, vol. 2015, no. 2015, art. no. 209745 [cit. 2015-12-17]. ISSN 2314-6133. Dostupný z WWW: <http://www.hindawi.com/journals/bmri/2015/209745/>.

**PECANKOVA, K.**; **MAJEK, P.**; **CERMAK, J.**; **DYR, J.E.** Disulfide subproteome alterations in the platelets of patients with myelodysplastic syndrome. Journal of BUON. 2015, vol. 20, no. 6, s. 1643-1644. ISSN 1107-0625.

**DOBROVOLNÁ, M.**; **VRANÁ, M.**; **DYR, J.E.** Polymorfismus hlavního histokompatibilního systému člověka: funkce – indikace – detekce – interpretace. Chemické listy. 2015, roč. 109, č. 1, s. 45-50. ISSN 0009-2770.

**PECANKOVA, K.**; **MAJEK, P.**; **CERMAK, J.**; **DYR, J.E.** Peripheral blood mononuclear cell proteome changes in patients with myelodysplastic syndrome. BioMed research international [online]. 2015, vol. 2015, no. [May], art. no. 872983 [cit. 2015-01-22]. ISSN 2314-6133. Dostupný z WWW: <http://www.hindawi.com/journals/bmri/aip/872983/>.