

Příloha č. 3: Publikace vztahující se k tématu disertace

Příjmení, jméno, titul, učo:	Amruz Černá, Kateřina, 323699
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Souhrn

Publikace	Počet	IF/Q-WOS	
Jimp	Prvoautorské	1	10,023/Q1
	Spoluautorské	1	15,132/Q1
Další	Příspěvky ve sborníku	12	
	Jiné (patenty...)	17	

Detailní přehled publikační aktivity

Originální práce s IF¹

A. Prvoautorské

Cerna K, Oppelt J, Chochola V, Musilova K, Seda V, Pavlasova G, Radova L, Arigoni M, Calogero RA, Benes V, Trbusek M, Brychtova Y, Doubek M, Mayer J, Pospisilova S, Mraz M: MicroRNA miR-34a downregulates FOXP1 during DNA damage response to limit BCR signalling in chronic lymphocytic leukaemia B cells. *Leukemia*. 2019 Feb;33(2):403-414. doi: 10.1038/s41375-018-0230-x. Epub 2018 Aug 15.

IF ²	Q WOS	WOS kategorie
10,023	Q1	Hematology

B. Spoluautorské

Musilova K, Devan J, **Cerna K**, Seda V, Pavlasova G, Sharma S, Oppelt J, Pytlik R, Prochazka V, Prouzova Z, Trbusek M, Zlamalikova L, Liskova K, Kruzova L, Jarosova M, Mareckova A, Kornauth C, Simonitsch-Klupp I, Schiefer AI, Merkel O, Mocikova H, Burda P, Machova Polakova K, Kren L, Mayer J, Zent CS, Trneny M, Evans AG, Janikova A, Mraz M: miR-150 downregulation contributes to the high-grade transformation of follicular lymphoma by upregulating FOXP1 levels. *Blood*. 2018 Nov 29;132(22):2389-2400. doi: 10.1182/blood-2018-06-855502. Epub 2018 Sep 13.

IF	Q WOS	WOS kategorie
15,132	Q1	Hematology

Další publikace

Příspěvky ve sborníku

Mraz M, **Cerna K**, Musilova K, Malcikova J, Plevova K, Pavlova K, Tichy B, Brychtova Y, Doubek M, Mayer J, Trbusek M., Pospisilova S.: The expression of microRNA-34a is a highly reliable marker for impairment of p53-pathway in CLL: development of clinically applicable assay. XV iwCLL, Germany, Cologne, Sep 2013.

Cerna K, Oppelt J, Calogero R, Pospisilova S, Mraz M: Identifikace microRNA zapojených do reakce na poškození DNA v maligních B-lymfocytech a jejich biologická a klinická relevance. XIV.

¹ U publikací s IF (Impakt faktor) uvádějte i kategorii dle WOS a Q WOS (Impakt faktor kvartil), příklad: IF=1,167; GENETICS & HEREDITY Q4 (v případě více kategorií, uveďte kategorii s nejvyšším příslušným kvantilem).

² Uvádějte IF v roce publikování. Pokud je publikace zatím pouze přijata k tisku, uvádějte aktuální IF časopisu. Po schválení oborovou radou je možné uvádět i publikace před zahájením Ph.D. studia.

Mezioborové setkání mladých biologů, biochemiků a chemiků; Devět Skal Milovy, Czech Republic (May 13-16, 2014). Chem. Listy (2014); 108: 526

Cerna K, Oppelt J, Calogero R, Pospisilova S, Mraz M.: Identification of microRNAs involved in DNA damage response in malignant B cells and their biological and clinical relevance XVI. Setkání biochemiků a molekulárních biologů; Brno, Czech Republic (November 11-12, 2014)

Cerna K, Oppelt J, Radova L, Tom N, Musilova K, Malcikova J, Plevova K, Tichy B, Brychtova Y, Doubek M, Trbusek M, Koca J, Mayer J, Pospisilova S, Mraz M.: Identification of microRNAs involved in DNA damage response in malignant B cells and their biological and clinical relevance Annual Conference Brno 2014: Frontiers in Material and Life Sciences; Brno, Czech Republic (October 21-24, 2014); abstract no. 27

Cerna K, Oppelt J, Radova L, Musilova K, Seda V, Pavlasova G, Jez M, Tom N, Pardy F, Malcikova J, Plevova K, Tichy B, Brychtova Y, Doubek M, Trbusek M, Mayer J, Koca J, Calogero R, Pospisilova S, Mraz M: MicroRNA involvement in DNA damage response and BCR signaling in malignant B cells. AACR Annual Meeting; Philadelphia, Pennsylvania (April 18-22, 2015); abstract no. 3084.

Cerna K, Oppelt J, Radova L, Musilova K, Seda V, Pavlasova G, Jez M, Tom N, Malcikova J, Tichy B, Brychtova Y, Doubek M, Trbusek M, Mayer J, Koca J, Arigoni M, Ricardo F, Calogero R, Pospisilova S, Mraz M: MicroRNAs in DNA damage response and BCR signaling in malignant B cell. Keystone Symposia on Molecular and Cellular Biology 2015: MicroRNAs and Noncoding RNAs in Cancer; Keystone, Colorado (June 7-12); abstract no. 2027

Musilova K, Pavlasova G, Didi J, Seda V, **Cerna K**, Jez M, Tom N, Brychtova Y, Doubek M, Mayer J, Arigoni M, Ricardo F, Calogero R, Pospisilova S, Kipps T, Janikova A, Mraz M: MicroRNA150 Influences Microenvironmental Interactions and Prognosis of B Cell Malignancies. ESH 2015: International Conference on The Tumour Microenvironment in the Haematological Malignancies and its Therapeutic Targeting; Lisbon, Portugal (May 7-9); abstract no. 3307

Seda V, Jez M, Pavlasova G, **Cerna K**, Musilova K, Pospisilova S, Doubek M, Brychtova Y, Mayer J, Mraz M: The effect of ZAP-70 on adaptor molecule involved in microenvironmental interactions of malignant B cells. CEITEC PhD Retreat; Valtice, Czech Republic (April 23-24); abstract no. L41, p. 74

Jez M, Pavlasova G, **Cerna K**, Musilova K, Seda V, Mayer J, Pospisilova S, Mraz M: Focal adhesion kinase regulation and expression in malignant B cells. CEITEC PhD Retreat; Valtice, Czech Republic (April 23-24); abstract no. L22, p. 55

Mraz M, **Cerna K**, Pavlasova G, Musilova K, Seda V, Mayer J, Pospisilova S: MicroRNAs in the microenvironmental interactions of B cell leukemias. XXV. Biochemický sjezd, Praha, Czech Republic (September 13-16, 2016); abstract page 82.

Musilova K, Pavlasova G, Seda V, **Cerna K**, Vojackova E, Didi J, Pytlik R, Prochazka V, Prouzova Z, Zlamalikova L, Mocikova H, Jarosova M, Evans A, Zent C, Kren L, Trneny M, Mayer J, Janikova A, Mraz M: Differential expression of microRNAs in transformation of follicular lymphoma to diffuse large B cell lymphoma. In AACR Annual Meeting, Washington D.C., USA (Apr 1-5, 2017) in Proceedings of the 107th Annual Meeting of the American Association for Cancer Research 2017; 58: 380; Abstract nr 1479.

Cerna K, Oppelt J, Seda V, Musilova K, Pavlasova G, Svobodova V, Mayer J, Pospisilova S, Mraz M: MicroRNA Induced by DNA Damage Response Regulate the Expression of FOXP1 and Therapy Response in CLL. 2nd International Conference on the Long and the Short of Non-Coding RNAs, Heraklion, Greece (June 9-14, 2017); abstract no. 81, p.107

Pavlasova G, Borsky M, Svobodova V, Oppelt J, **Cerna K**, Novotna J, Musilova K, Seda V, Vojackova E, Brychtova Y, Doubek M, Pospisilova S, Mayer J, Mraz M: CD20 supports BCR signaling in an intra-clonal aggressive chronic lymphocytic leukemia subpopulation of cells and rituximab primarily targets these BCR-proficient B cells in vivo. In AACR Annual Meeting, Chicago, Illinois, USA (Apr 14-18, 2018) in Proceedings of the Annual Meeting of the American Association for Cancer Research 2018; 59: 260; Abstract 1012.

Jiné

patent:

Mraz M, **Cerna K**, Pospisilova S, Mayer J: Způsob absolutní kvantifikace exprese miRNA, zejména miR-34a a/nebo miR-150, a jeho použití v diagnostice a prognostice B-buněčných malignit; 2016. Patent. Číslo: 306080. Vydavatel: Úřad průmyslového vlastnictví. Místo vydání: Praha. Název vlastníka: Masarykova univerzita, Brno, CZ; Fakultní nemocnice Brno, Brno-Bohunice, CZ. Datum registrace: 17. 2. 2015. Datum přijetí: 15. 6. 2016.

spoluautorské publikace úzce nesouvisející s disertační prací:

Kminkova J, Mraz M, Zaprazna K, Navrkalova V, Tichy B, Plevova K, Malcikova J, **Cerna K**, Rausch T, Benes V, Brychtova Y, Doubek M, Mayer J, Pospisilova S: Identification of novel sequence variations in microRNAs in chronic lymphocytic leukemia. *Carcinogenesis* (2014); 35(5):992-1002. doi: 10.1093/carcin/bgt396.; **IF=5.334 (Q1)**

Pavlasova G, Borsky M, Seda V, **Cerna K**, Osickova J, Doubek M, Mayer J, Calogero R, Trbusek M, Pospisilova S, Davids MS, Kipps TJ, Brown JR, Mraz M: Ibrutinib inhibits CD20 up-regulation on CLL B cells mediated by the CXCR4/SDF-1 axis. *Blood*. (2016) Sep 22; 128(12):1609-13. doi: 10.1182/blood.7; **IF=13.164 (Q1)**

Pavlasova G, Borsky M, Svobodova V, Oppelt J, **Cerna K**, Novotna J, Seda V, Fojtova M, Fajkus J, Brychtova Y, Doubek M, Pospisilova S, Mayer J, Mraz M: Rituximab primarily targets an intra-clonal BCR signaling proficient CLL subpopulation characterized by high CD20 levels. *Leukemia*. 2018 Sep; 32(9):2028-2031. doi: 10.1038/s41375-018-0211-0. Epub 2018 Jul 20.; **IF=10.023 (Q1)**

Peskova L, **Cerna K**, Oppelt J, Mraz M, Barta T: Oct4-mediated reprogramming induces embryonic-like microRNA expression signatures in human fibroblasts. *Stem Cells*. 2019; *submitted*

konferenční příspěvky v časopisech s IF:

Cerna K, Oppelt J, Radova L, Musilova K, Tom N, Pardy F, Malcikova J, Plevova K, Tichy B, Brychtova Y, Doubek M, Trbusek M, Mayer J, Koca J, Calogero R, Pospisilova S, Mraz M.: Identification of microRNAs involved in DNA damage response in malignant B cells and their biological and clinical relevance. AACR Annual Meeting; San Diego, California (April 5-9, 2014); abstract no. 5198. *Cancer Res* 2014; 74(19 Suppl): Abstract nr 5198. doi:10.1158/15387445.AM2014-5198

Cerna K, Oppelt J, Radova L, Pardy F, Tom N, Musilova K, Malcikova J, Plevova K, Tichy B, Brychtova Y, Doubek M, Trbusek M, Koca J, Calogero R, Mayer J, Pospisilova S, Mraz M.: Biological and clinical relevance of miRNAs induced in chronic lymphocytic leukemia (CLL) cells during administration of therapy in vivo and in vitro. 19th Congress of the European Hematology Association; Milan, Italy (June 12-15, 2014); abstract no. 202. *Haematologica* (2014); 99(s1): 4142.

Musilova K, Pavlasova G, **Cerna K**, Seda V, Jez M, Brychtova Y, Doubek M, Mayer J, Arigoni M, Riccardo F, Calogero R, Pospisilova S, Kipps T, Janikova A, Mraz M: MicroRNA-150 influences microenvironmental interactions and prognosis of follicular lymphoma. ICML 2015: 13th International Conference on Malignant Lymphoma; Lugano, Switzerland (June 16-20); oral presentation; *Hematological Oncology* 2015; 33(S1): 100-180. DOI: 10.1002/hon.2227

Pavlasova G, Borsky M, Seda V, **Cerna K**, Osickova J, Mayer J, Pospisilova S, Davids M S, Brown J R, Mraz M: Microenvironmental interactions up-regulate CD20 expression in CLL B cells, but confer resistance to rituximab. XVI International Workshop on Chronic Lymphocytic Leukemia 2015; Sydney, Australia (September 6-9); oral presentation; *Leukemia & Lymphoma 2015: Abstracts from the XVI International Workshop on Chronic Lymphocytic Leukemia*; 1-327. DOI:10.3109/10428194.2015.1080893

Pavlasova G, Seda V, Borsky M, **Cerna K**, Osickova J, Mayer J, Pospisilova S, Davids M S, Brown J R, and Mraz M: Microenvironmental Interactions up-Regulate CD20 Expression in CLL B Cells through the CXCR4/SDF-1 Axis: Implications for CD20-Targeting Antibodies and the Use of BCRInhibitors in Combination. ASH 2015 Annual Meeting Abstracts, Orlando, Florida, USA (December 5-8). *Blood Vol 126, Issue 23: 92-5599*.

Pavlasova G, Borsky M, Musilova K, Seda V, **Cerna K**, Osickova J, Vojackova E, Brychtova Y, Doubek M, Pospisilova S, Mayer J and Mraz M: Rituximab Preferentially Eliminates BCR Signaling Proficient Chronic Lymphocytic Leukemia B Cells In Vivo. 58th ASH Annual Meeting and Exposition (December 3-6, 2016); abstract no. 2030. *Blood (2016); Vol 128, Issue 22: 92-5969*, abstract no. 2030

Musilova K, Pavlasova G, Seda V, Vojackova E, **Cerna K**, Didi J, Pytlik R, Prochazka V, Prouzova Z, Zlamalikova L, Pospisilova S, Evans A, Zent CS, Kren L, Trneny M, Mayer J, Janikova A, Mraz M The Role of Microrna-150 in the Prognosis and Transformation of Follicular Lymphoma. 58th ASH Annual Meeting and Exposition (December 3-6, 2016); abstract no. 4125. *Blood (2016); Vol 128, Issue 22: 92-5969* abstract no. 4125.

Pavlasova G, Borsky M, Seda V, **Cerna K**, Osickova J, Doubek M, Mayer J, Calogero R, Pospisilova S, M Davids M, Brown J, Mraz M: IBRUTINIB INHIBITS CD20 UP-REGULATION ON CLL B CELLS MEDIATED BY THE CXCR4/SDF-1 AXIS G. 21st Congress of the European Hematology Association; Denmark, Copenhagen (June 9-12, 2016); abstract no. p200; *Haematologica (2016); 101(s1): 47*

Pavlasova G, Borsky M, Seda V, **Cerna K**, Osickova J, Doubek M, Brychtova Y, Mayer J, Pospisilova S, Davids MS, Brown JR, Mraz M: The expression of CD20 on malignant B cells is regulated by chemokine signaling through the CXCR4/SDF1 axis: implications for targeting the microenvironmental interactions. AACR Annual Meeting; New Orleans (April 16-20, 2016); abstract no. 3291. *Cancer Res (2016); 76 (14 Supplement): 3291-3291*.

Pavlasova G, Borsky M, Seda V, **Cerna K**, Doubek M, Mayer J, Pospisilova S, Davids SM, Brown RJ, Mraz M: Ibrutinib inhibits CD20 up-regulation on CLL B cells mediated by the CXCR4/SDF-1 AXIS. *Transfuzie a hematologie dnes (2016); 22(s): 24*.

Cerna K, Oppelt J, Seda V, Musilova K, Pavlasova G, Mayer J, Pospisilova S, Mraz M: MicroRNA Induced by DNA Damage Response Regulate the Expression of FOXP1 and Therapy Response in CLL. XVII International Workshop on CLL, New York, USA (May 12-15, 2017); *Leukemia and Lymphoma 2017: 58(S1): 73-74*; Abstract ID 81.

Musilova K, Pavlasova G, Seda V, **Cerna K**, Vojackova E, Didi J, Pytlik R, Prochazka V, Prouzova Z, Zlamalikova L, Mocikova H, Jarosova M, Evans A, Zent C, Kren L, Trneny M, Mayer J, Janikova A, Mraz M: Down-regulation of miR-150 and up-regulation of its target FOXP1 is associated with transformation of follicular lymphoma. In 14th International Conference on Malignant Lymphoma (14-ICML); Lugano, Switzerland (June 14-17, 2017); *Hematological Oncology 2017: 35(S1): 150-151*; Abstract nr 142.

Pavlasova G, Borsky M, Svobodova V, Musilova K, **Cerna K**, Seda V, Osickova J, Brychtova Y, Doubek M, Pospisilova S, Mayer J, Mraz M: BCR signalling proficient chronic lymphocytic leukaemia cells are prone to rituximab mediated elimination in vivo. In 22nd EHA Annual Congress;

Madrid, Spain (June 22-25, 2017); Haematologica 2017; 102(s2): 412-412; Abstract E1004.

Pavlasova G, Musilova K, Seda V, **Cerna K**, Vojackova E, Svobodova V, Mraz M: The identification of combinatorial therapeutic approaches with BCR inhibitors in B cell malignancies [abstract]. In: Proceedings of the AACR Precision Medicine Series: Opportunities and Challenges of Exploiting Synthetic Lethality in Cancer; Jan 4-7, 2017; San Diego, CA. Philadelphia (PA): AACR; Mol Cancer Ther 2017;16(10 Suppl):Abstract nr A34.

Pavlasova G, Svobodova V, Borsky M, Oppelt J, Novotna J, **Cerna K**, Musilova K, Seda V, Brychtova Y, Doubek M, Pospisilova S, Mayer J, Mraz M: CD20 is a direct regulator of B-cell receptor signaling in the microenvironment of chronic lymphocytic leukemia. In: 23rd Congress of the European Hematology Association; 2018 June 14–17; Stockholm, Sweden: HemaSphere 2018; 2(S1): p490; Abstract PS1091.

Musilova K, Devan J, **Cerna K**, Seda V, Pavlasova G, Pytlik R, Prochazka V, Prouzova Z, Trbusek M, Zlamalikova L, Liskova K, Kruzova L, Jarosova M, Kornauth Ch, Simonitsch-Klupp I, Schiefer AI, Merkel O, Burda P, Machova Polakova K, Mocikova H, Kren L, Mayer J, Zent CS, Trneny M, Evans A, Janikova A, Mraz M: MYC-mediated downregulation of miR-150 contributes to the transformation of follicular lymphoma by upregulating FOXP1 levels. In: 23rd Congress of the European Hematology Association; 2018 June 14–17; Stockholm, Sweden: HemaSphere 2018; 2(S1): p269-270; Abstract PF634.

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datum a podpis uchazeče