

Curriculum vitae - Jiri Polivka

Name: Ing. et Ing. Jiri Polivka, Ph.D.

Date of birth: 2 July 1982

Address: Nad Hradistem 333/19, 326 00 Plzen, Czech Republic, jiri.polivka2@lfp.cuni.cz

Nationality: Czech Republic

Scientific occupation:

July 2014 – now; Department of Histology and Embryology, Faculty of Medicine in Pilsen, Charles University, Czech Republic

July 2014 – now; Laboratory of Tumor Biology, Biomedical Center, Faculty of Medicine in Pilsen, Charles University, Czech Republic

July 2019 – now; Department of Immunochemical Diagnostics, University Hospital Plzen, Czech Republic

June 2007 – October 2017; Department of Computer Science and Engineering, Faculty of Applied Sciences, University of West Bohemia in Pilsen

University education:

January 2017; Charles University, Faculty of Medicine in Pilsen, Doctoral study in General Medicine - Anatomy, Histology and Embryology; Achieved grade: **Ph.D.**

October 2009; Czech Technical University in Prague, Masaryk Institute of Advanced Studies, Master study in Entrepreneurship and Commercial Engineering in Industry and Management; Achieved grade: **Ing.**

June 2007; University of West Bohemia in Pilsen, Faculty of Applied sciences, Master study in Applied Sciences - Physical Engineering, Physical Mathematical Simulations; Achieved grade: **Ing.**

Teaching activities

July 2014 – now; Department of Histology and Embryology, Faculty of Medicine in Pilsen, Charles University, Czech Republic; **Courses** (lectures, practical sessions): General histology for General medicine, General histology for Dental medicine, Systematic histology and embryology for General medicine, Systematic histology and embryology for Dental medicine

Memberships:

EPMA – European Association for Predictive, Preventive and Personalised Medicine – Secretary-General

ESMO, European Society for Medical Oncology

EANO, European Association for Neuro-oncology

AACC, American Association for Clinical Chemistry

Czech Society for Oncology, The Section of Neurooncology

Czech Society for Oncology, The Section of Preventive Oncology

Scientific international mobility:

November – December 2020, 3P Medicine Unit, Radiation Oncology Clinic, Friedrich-Wilhelms-University of Bonn, Germany

November – December 2018, October – December 2017, November 2016, Department of Molecular Diagnostics, Radiological Clinic, Friedrich-Wilhelms-University of Bonn, Germany

August 2013, MD Anderson Cancer Centre, Department of Investigational Therapeutics, University of Texas, Houston, USA

October – December 2012; Education and Research Centre, St. Vincent's University Hospital, Dublin, Ireland

January – March 2008; IRPHE – Institut de Recherche sur les Phenomenes Hors Equilibre, Marseille, France

Awards:

2012 The Josef Hlavka Prize

2014 Prize of the Pilsen Region

Publication activity:

Sum of citations: **1290**

h-idnex: **19**

(Web of Science, Clarivate)

Scientific journal articles (according to the most recent)

Gouda MA, **Polivka J**, Huang HJ, Treskova I, Pivovarcikova K, Fikrle T, Woznica V, Dustin DJ, Call SG, Meric-Bernstam F, Pesta M, Janku F. ULTRASENSITIVE DETECTION OF BRAF MUTATIONS IN CIRCULATING TUMOR DNA OF NON-METASTATIC MELANOMA. *ESMO Open*. 2022 Feb;7(1):100357. (IF 6.883)

Pesta M, Shetti D, Kulda V, Knizkova T, Houfkova K, Bagheri MS, Svaton M, **Polivka J**. Applications of Liquid Biopsies in Non-Small-Cell Lung Cancer. *Diagnostics (Basel)*. 2022 Jul 25;12(8):1799. (IF 3.992)

Polivka J, Svajdler M, Priban V, Mracek J, Kasik P, Martinek P, Ptakova N, Sharif Bagheri M, Shetti D, Pesta M, Potuznik P, Topolcan O. ONCOGENIC FUSIONS IN GLIOMAS: AN INSTITUTIONAL EXPERIENCE. *Anticancer Res*. 2022 Apr;42(4):1933-1939. (IF 2.435)

Golubnitschaja O, Liskova A, Koklesova L, Samec M, Biringer K, Büsselberg D, Podbielska H, Kunin A, Evseyeva M, Shapira N, Friedemann P, Erb C, Dietrich D, Felbel D, Karabatsiakos A, Bubnov R, Polivka J, **Polivka J Jr**, Birkenbihl C, Fröhlich H, Hofmann-Apitius M, Kubatka P. CAUTION, "NORMAL" BMI: HEALTH RISKS ASSOCIATED WITH POTENTIALLY MASKED INDIVIDUAL UNDERWEIGHT - EPMA POSITION PAPER 2021. *EPMA J*. 2021 Aug 17;12(3):1-22. (IF 6.543)

Pesta M, Travnicek I, Kulda V, Windrichova J, Rezackova H, Houfkova K, Macanova T, Bendova B, Nestorova A, Hes O, Hora M, Topolcan O, **Polivka J**. BAI1 as a Prognostic Marker of Clear Cell Renal Cell Carcinoma (ccRCC). *Anticancer Res*. 2021 Sep;41(9):4463-4470. (IF 2.48)

Polivka J, **Polivka J Jr**, Potuzak P. CURRENT TREATMENT OF BRAIN TUMOURS. *Neurol. praxi*. 2021; 22(1).

Polivka J, Potuzik P, **Polivka J Jr**. VERTIGO AND POSTURAL INSTABILITY IN OLD AGE. *Neurol. praxi* 2021; 22(1): 11-16.

Polivka J, Windrichova J, Pesta M, Houfkova K, Rezackova H, Macanova T, Vycital O, Kucera R, Slouka D, Topolcan O. THE LEVEL OF PREOPERATIVE PLASMA KRAS MUTATIONS AND CEA PREDICT SURVIVAL OF PATIENTS UNDERGOING SURGERY FOR COLORECTAL CANCER LIVER METASTASES. *Cancers (Basel)*. 2020 Aug 27;12(9):2434. (IF 6.162)

Polivka J Jr, Svajdler M, Martinek P, Ptakova N, Ostasov P, Polivka J. TARGETABLE GENE FUSIONS IN PPPM ORIENTED GLIOMA MANAGEMENT. In: Golubnitschaja O, Topolcan O, Kucera R, Costigliola V, EPMA. EPMA Journal 10th Anniversary of the European Association for Predictive, Preventive and Personalised (3P) Medicine - in: *EPMA J* 2020 Aug 19;11(Suppl 1):1-133. (IF 4.661)

Pesta M, Kucera R, Topolcan O, Karlikova M, Houfkova K, **Polivka J**, Macanova T, Machova I, Slouka D, Kulda V. PLASMA microRNA LEVELS COMBINED WITH CEA AND CA19-9 IN THE FOLLOW-UP OF COLORECTAL CANCER PATIENTS. *Cancers* (Basel). 2019 Jun 21;11(6). pii: E864. (IF 6.162)

Pivovarcikova K, Martinek P, Grossmann P, Trpkov K, Alaghebandan R, Magi-Galluzzi C, Pane Foix M, Condom Mundo E, Berney D, Gill A, Rychly B, Michalova K, Rogala J, Pitra T, Micsik T, **Polivka J**, Hora M, Tanas Isicki O, Skalova S, Mareckova J, Michal M, Hes O. FUMARATE HYDRATASE DEFICIENT RENAL CELL CARCINOMA: CHROMOSOMAL NUMERICAL ABERRATION ANALYSIS OF 12 CASES. *Ann Diagn Pathol*. 2019 Feb 10;39:63-68. (IF 1.633)

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Goncharenko V, Bubnov R, **Polivka J Jr**, Zubor P, Biringer K, Bielik T, Kuhn W, Golubnitschaja O. VAGINAL DRYNESS: INDIVIDUALISED PATIENT PROFILES, RISKS AND MITIGATING MEASURES. *EPMA J*. 2019; 10(1):73-79. (IF 4.661)

Golubnitschaja O, **Polivka J Jr**, Yeghiazaryan K, Berliner L. LIQUID BIOPSY AND MULTIPARAMETRIC ANALYSIS IN MANAGEMENT OF LIVER MALIGNANCIES: NEW CONCEPTS OF THE PATIENT STRATIFICATION AND PROGNOSTIC APPROACH. *EPMA J*. 2018 Aug 17;9(3):271-285. (IF 4.661)

Polivka J, **Polivka J Jr**, Rohan V. PREDICTIVE AND INDIVIDUALIZED MANAGEMENT OF STROKE-SUCCESS STORY IN CZECH REPUBLIC. *EPMA J*. 2018 Oct 25;9(4):393-401. (IF 4.661)

Kunin A, **Polivka J Jr**, Moiseeva N, Golubnitschaja O. "DRY MOUTH" AND "FLAMMER" SYNDROMES-NEGLECTED RISKS IN ADOLESCENTS AND NEW CONCEPTS BY PREDICTIVE, PREVENTIVE AND PERSONALISED APPROACH. *EPMA J*. 2018 Aug 2;9(3):307-317. (IF 4.661)

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Polivka J Jr, Pesta M, Pitule P, Hes O, Holubec L, Polivka J, Kubikova T, Tonar Z. IDH1 MUTATION IS ASSOCIATED WITH LOWER EXPRESSION OF VEGF BUT NOT MICROVESSEL FORMATION IN GLIOBLASTOMA MULTIFORME. *Oncotarget* 2018, 9(23):16462-16476.

Polivka J Jr, Polivka J, Holubec L, Kubikova T, Priban V, Hes O, Pivovarcikova K, Treskova I. ADVANCES IN EXPERIMENTAL TARGETED THERAPY AND

IMMUNOTHERAPY FOR PATIENTS WITH GLIOBLASTOMA MULTIFORME. Anticancer Res. 2017 Jan;37(1):21-33. (IF = 1.865)

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Polivka J Jr, Polivka J, Rohan V, Priban V. CURRENT VIEW ON MANAGEMENT OF CENTRAL NERVOUS SYSTEM LOW-GRADE GLIOMAS. *Cesk Slov Neurol N.* 2016; 79/112(5):1-7. (IF = 0.368)

Polivka J, **Polivka J Jr**, Krakorova K, Peterka M, Topolcan O. CURRENT STATUS OF BIOMARKER RESEARCH IN NEUROLOGY. *EPMA J.* 2016; 7:14.

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Polivka J, **Polivka J Jr**, Rohan V, Priban V. ANAPLASTIC OLIGODENDROGLIOMAS – COMING THE AGE OF PERSONALIZED MEDICINE? *Cesk Slov Neurol N* 2014;77/110(4): 428-434. (IF 0.165)

Polivka J Jr, Polivka J, Karlikova M, Topolcan O. PRE-GRADUATE AND POST-GRADUATE EDUCATION IN PERSONALIZED MEDICINE IN THE CZECH REPUBLIC: STATISTICS, ANALYSIS AND RECOMMENDATIONS. *EPMA J.* 2014; 5(1): 22.

Polivka J, Rohan V, Sevcik P, **Polivka J Jr**. PERSONALIZED APPROACH TO PRIMARY AND SECONDARY PREVENTION OF ISCHEMIC STROKE. *EPMA J.* 2014 Jun 4;5(1):9.

Polivka J Jr, Karlikova M, Polivka J, Kinkorova J, Topolcan O. PERSONALISED MEDICINE – PRE- AND POSTGRADUATE EDUCATION IN THE CZECH REPUBLIC. Proceedings of the Second International Congress on Personalized Medicine. pp31-33. ISBN 978-88-7587-703-3, Medimond, 2014.

Polivka J, **Polivka J jr**, Rohan V, Topolcan O. GLIOBLASTOMA MULTIFORME – A REVIEW OF PATHOGENESIS, BIOMARKERS AND THERAPEUTIC PERSPECTIVES. *Cesk Slov Neurol N* 2013; 76/ 109(5). (IF 0.159)

Rohan V, Polivka J, Sevcik P, **Polivka J jr**. CURRENT APPROACH TO THE OPTIONS OF PRIMARY AND SECONDARY PREVENTION OF ISCHEMIC CEREBROVASCULAR ACCIDENT. *Kardiol Rev* 2013; 15(4): 218–223.

Polivka J, **Polivka J Jr**, Rohan V, Topolcan O. APPLICATION OF PERSONALISED MEDICINE IN NEUROLOGY. *Neurologie pro praxi.* 2013. Supplement D:63-67.

Polivka J Jr, Polivka J, Rohan V, Topolcan O, Ferda J. NEW MOLECULARLY TARGETED THERAPIES FOR GLIOBLASTOMA MULTIFORME. *Anticancer Res.* 2012 Jul;32(7):2935-46. (IF 1.713)

Polivka J, **Polivka J Jr**, Peterka M, Rohan V, Sevcik P, Topolcan O. VITAMIN D AND NEUROLOGICAL DISEASES. *Vnitr Lek.* 2012 May;58(5):393-5.

Polivka, J. jr.; Kratochvil, P.; Rohan, V.; Polivka, J and Kleckova J. DESIGN OF THE ARTIFICIAL NEURAL NETWORK MODEL FOR THE PREDICTION OF OUTCOME AFTER STROKE. *Healthinf 2012.* SciTePress, ISBN 978-989-8425-88-1, pp 467 – 470.

Maule, P.; **Polivka, J** and Kleckova, J. EXPERIMENTAL DATABASE MEDICAL SYSTEM - Data Acquisition Background and Features. *Healthinf 2010.* SciTePress, ISBN 978-989-674-016-0, pp 402-405.

Maule, P.; **Polivka, J** and Kleckova, J. VASCULAR NETWORK SEMI-AUTOMATIC SEGMENTATION USING COMPUTED TOMOGRAPHY ANGIOGRAPHY. *IC SOFT 2010.* SciTePress, ISBN 978-989-8425-22-5, pp 323-326.

Polivka, J.; Maule, P. & Kleckova, J. EXPERIMENTAL MEDICAL RESEARCH DATABASE SYSTEM AND ITS EXAMPLES OF USE. 1343-1345, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp 0672, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010.

J. Kleckova, P. Maule, **J. Polivka**, V. Rohan. EXPERIMENTAL SYSTEM FOR NEUROLOGICAL CASE STUDIES. 6th International Workshop Models and Analysis of Vocal Emissions for Biomedical Applications, *MAVEBA 2009*, ISBN 978-88-6453-094-9, pp 149 – 150.

Book chapters and books

Polivka J, **Polivka J Jr**. NEUROONKOLOGIE. In: Ruzicka E et al. Neurologie. Vol 1. Triton, Prague, 2019. ISBN 978-80-7553-681-5.

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Bubnov R, **Polivka J**, Zubor P, Konieczka K, Golubnitschaja O. RELEVANCE OF FLAMMER SYNDROME PHENOTYPE TO METASTATIC BREAST CANCER: RISKS BY PRE-METASTATIC SYSTEMIC HYPOXIC ENVIRONMENT. In: Golubnitschaja O. (eds) Flammer Syndrome. Advances in Predictive, Preventive and Personalised Medicine, vol 11. Springer, Cham, 2019. ISBN 978-3-030-13549-2.

Polivka J Jr, Polivka J, Pesta M, Rohan V, Celedova L, Cevela R, Topolcan O, Golubnitschaja O. “YOUNG STROKE” RISKS POTENTIALLY LINKED TO THE FLAMMER SYNDROME PHENOTYPE: FACTS AND HYPOTHESES. In: Golubnitschaja O. (eds) Flammer Syndrome. Advances in Predictive, Preventive and Personalised Medicine, vol 11. Springer, Cham, 2019. ISBN 978-3-030-13549-2.

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Kunin A, **Polivka J**, Moiseeva N, Golubnitschaja O. INTERRELATION BETWEEN DRY MOUTH AND FLAMMER SYNDROMES: NEGLECTED RISKS IN YOUTH AND NEW CONCEPTS OF PERSONALISED PREVENTION. In: Golubnitschaja O. (eds) Flammer Syndrome. Advances in Predictive, Preventive and Personalised Medicine, vol 11. Springer, Cham, 2019. ISBN 978-3-030-13549-2.

Polivka J, **Polivka J Jr**, Svobodova S, Topolcan O, Fuchsova R, Priban V, Kinkorova J. BIOMARKERS IN THE DIAGNOSTICS AND MONITORATION OF TREATMENT OF CNS TUMORS. Tribun EU, 2014. ISBN 978-80-263-0815-7

Tonar Z., Eberlova L., **Polivka J.**, Daum O., Witter K., Kralickova A., Gregor T., nedorost L., Kochova P., Rohan E., Kalusova K., Palek R., Skala M., Glanc D., Kralickova M., Liska V. (2012): STEREOLOGICAL METHODS FOR QUANTITATIVE ASSESSMENT OF HEPATIC MICROCIRCULATION. Méndez-Villas A. (Ed): Current Microscopy Contributions to Advances in Science and Technology. Vol. 1. Microscopy Book Series – 2012 Edition. Formatex Research Center, Badajoz, Spain, pp 737-748. ISBN 978-84-939843-6-6.