

Research/art/teacher profile of a person

Name and surname	prof. MUDr. Branislav Kolarovszki, PhD., MBA
Document type:	Research/art/teacher profile of a person
The name of the university	Comenius University Bratislava
The seat of the university	Šafárikovo námestie 6, 818 06 Bratislava
The name of the faculty	Jessenius Faculty of Medicine in Martin
The seat of the faculty	Malá Hora 10701/4A, 03601 Martin

I. - Basic information

I.1 - Surname	Kolarovszki
I.2 - Name	Branislav
I.3 - Degrees	Prof., MUDr., PhD.
I.4 - Year of birth	1977
I.5 - Name of the workplace	Clinic of Neurosurgery of JFM CU and University Hospital Martin
I.6 - Address of the workplace	Kollárova 2, Martin, 036 01, Slovak Republic
I.7 - Position	head of department, university teacher - professor
I.8 - E-mail address	branislav.kolarovszki@uniba.sk
I.9 - Hyperlink to the entry of a person in the Register of university staff	https://www.portalvs.sk/regzam/detail/3645
I.10 - Name of the study field in which a person works at the university	general medicine
I.11 - ORCID iD	0000-0003-1295-0348

II. - Higher education and further qualification growth

II.1 - First degree of higher education

II.a - Name of the university or institution	Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
II.b - Year	2001
II.c - Study field and programme	study field general medicine

II.2 - Second degree of higher education

II.a - Name of the university or institution	Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
II.b - Year	2001
II.c - Study field and programme	study field general medicine

II.3 - Third degree of higher education

II.a - Name of the university or institution	Faculty of Medicine, Pavol Jozef Šafárik University in Košice
II.b - Year	2007
II.c - Study field and programme	study field general medicine, programme surgery

II.4 - Associate professor

II.a - Name of the university or institution	Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
II.b - Year	2013
II.c - Study field and programme	study field general medicine, programme surgery

II.5 - Professor

II.a - Name of the university or institution	Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
II.b - Year	2022
II.c - Study field and programme	study field general medicine, programme surgery

II.6 - Doctor of Science (DrSc.)

III. - Current and previous employment

III.a - Occupation-position	III.b - Institution	III.c - Duration
head of department, university teacher - professor	Jessenius Faculty of Medicine in Martin, Comenius University Bratislava	2001 - present, 2001 - 2013 teacher asistent, 2013 - docent (assoc. professor), 2014 - head od department, 2022 - profesor
doctor, neurosurgeon, the head of department	University Hospital Martin	2001 - present, 2001 - 2013 physician, neurosurgeon, 2014 - head of department
professional consultant	Health care surveillance authority, Slovakia	2015 - present

IV. - Development of pedagogical, professional, language, digital and other skills

IV.a - Activity description, course name, other	IV.b - Name of the institution	IV.c - Year
AO Central European Comprehensive Spine Course	AO Krakov, Poland	2006
study abroad with a focus on vascular neurointerventional procedures	Clinic of Radiology, Department of Angiography, Central Millitary Hospital, Praha - Střešovice	2007
22nd EFORT Instructional Course: Spine degenerative, trauma, deformities	EFORT, Praha	2008
Mobidays-Strasbourg, course of spondylosurgery	Strasbourg, France	2014
AO Neuro Course Skull Base	Vienna, AKH, Medical University Vienna	2015
Endoscopic Pituitary Surgery, 8th International Hands-On Workshop	Vienna, AKH, Medical University Vienna	2015
NIM Eclipse SD Neuromonitoring in Spine surgeries	Medtronic, Tolochenaz, Switzerland	2017
Exhibition Medica - worldwide exhibition of medical technology and technology, presentation of individualized cranial implants and individualized replacements of cervical intervertebral discs made by 3D printing - use in neurosurgery, participation support by SARIO agency (Slovak Investment and Trade Development Agency)	Worldwide Exhibition Medica, Berlin, Germany	2019

V. - Overview of activities within the teaching career at the university

V.1 - Overview of the profile courses taught in the current academic year according to study programmes

V.1.a - Name of the profile course	V.1.b - Study programme	V.1.c - Degree	V.1.d - Field of study
Neurosurgery	general medicine	I.+II.	General Medicine
Surgery	Surgery	III.	General Medicine
Urology 1	Urology	III.	General Medicine
Urology 2	Urology	III.	General Medicine

V.2 - Overview of the responsibility for the delivery, development and quality assurance of the study programme or its part at the university in the current academic year

V.2.a - Name of the study programme	V.2.b - Degree	V.2.c - Field of study
Surgery	III.	General Medicine
Urology	III.	General Medicine
Neurosurgery	I.+II.	General Medicine

V.3 - Overview of the responsibility for the development and quality of the field of habilitation procedure and inaugural procedure in the current academic year

V.3.a - Name of the field of habilitation procedure and inaugural procedure	V.3.b - Study field to which it is assigned
general medicine, surgery	general medicine, surgery

V.4 - Overview of supervised final theses

V.4.1 - Number of currently supervised theses

V.4.a - Bachelor's (first degree)	0
V.4.b - Diploma (second degree)	5
V.4.c - Dissertation (third degree)	1

V.4.2 - Number of defended theses

V.4.a - Bachelor's (first degree)	1
V.4.b - Diploma (second degree)	21
V.4.c - Dissertation (third degree)	4

VI. - Overview of the research/artistic/other outputs

VI.1 - Overview of the research/artistic/other outputs and the corresponding citations

VI.1.1 - Number of the research/artistic/other outputs

VI.1.a - Overall	200
VI.1.b - Over the last six years	93

VI.1.2 - Number of the research/artistic/other outputs registered in the Web of Science or Scopus databases

VI.1.a - Overall	39
VI.1.b - Over the last six years	29

VI.1.3 - Number of citations corresponding to the research/artistic/other outputs

VI.1.a - Overall	178
VI.1.b - Over the last six years	115

VI.1.4 - Number of citations registered in the Web of Science or Scopus databases

VI.1.a - Overall 124

VI.1.b - Over the last six years 71

VI.1.5 - Number of invited lectures at the international, national level

VI.1.a - Overall 11

VI.1.b - Over the last six years 5

VI.2 - The most significant research/artistic/other outputs

- 1 Kolarovszki, Branislav [UKOLJ309] - Žúbor, Pavol - Abrmanová, Hana - Benčo, Martin - Richterová, Romana [UKOLJ309] - Maťašová, Katarína [UKOLJ]: The assessment of intracranial dynamics by transcranial Dopplersonography in perioperative period in paediatric hydrocephalus In: Archives of Gynecology and Obstetrics, 287, 2, 2013: pp. 229-238. - ISSN 0932-0067 IF (JCR) 2013=1,279
- 2 Kolarovszki, Branislav [UKOLJ309]: The Role of Transcranial Doppler Sonography in the Management of Pediatric Hydrocephalus [elektronický dokument]. - 1st Edition. - London : IntechOpen, 2019. - 141 pp. ISBN 978-1-83962-444-5. - ISBN 978-1-83962-446-9 https://www.researchgate.net/publication/337162585_The_Role_of_Transcranial_Doppler_Sonography_in_the_Management_of_Pediatric_Hydrocephalus
Notice: The InTech publishing house is listed on the website of the Ministry of Education of the Slovak Republic in the list of foreign renowned publishing houses, link to the page : <http://cms.crepc.sk/pokyny.aspx>
- 3 Hanko, Martin [UKOLJ309] - Soršák, Jakub - Snopko, Pavol - Opšénák, René - Zeleňák, Kamil [UKOLJ304] - Kolarovszki, Branislav [UKOLJ309]: Incidence and risk factors of early postoperative complications in patients after decompressive craniectomy: a 5-year experience [elektronický dokument] In: European Journal of Trauma and Emergency Surgery [elektronický dokument]. 46, 2020, pp. 1-12 - ISSN (print) 1863-9933 Register in database: scopus, wos, IF (JCR) 2019=2,139
- 4 Hanko, Martin UKOLJ309 - Grendár, Marián [UKOLJ110] - Snopko, Pavol - Opšénák, René - Šutovský, Juraj - Benčo, Martin - Soršák, Jakub - Zeleňák, Kamil [UKOLJ304] - Kolarovszki, Branislav [UKOLJ309]: Random Forest – Based Prediction of Outcome and Mortality in Patients with Traumatic Brain Injury Undergoing Primary Decompressive Craniectomy. World Neurosurgery. 148, 2021, pp. e450-e458 [print]
- 5 Javorka, Kamil [UKOLJ160] - Lehotská, Zuzana - Kozár, Marek [UKOLJ] - Uhríková, Zuzana [UKOLJ] - Kolarovszki, Branislav [UKOLJ309] - Javorka, Michal [UKOLJ160] - Zibolen, Mirko [UKOLJ272]: Heart Rate Variability in Newborns In: Physiological Research. 66, Suppl. 2 (2017), pp. 203-S214. - ISSN 0862-8408 URL:

VI.3 - The most significant research/artistic/other outputs over the last six years

- 1 Kolarovszki, Branislav [UKOLJ309]: The Role of Transcranial Doppler Sonography in the Management of Pediatric Hydrocephalus [elektronický dokument]. - 1st Edition. - London : IntechOpen, 2019. - 141 pp. ISBN 978-1-83962-444-5. - ISBN 978-1-83962-446-9 https://www.researchgate.net/publication/337162585_The_Role_of_Transcranial_Doppler_Sonography_in_the_Management_of_Pediatric_Hydrocephalus
Notice: The InTech publishing house is listed on the website of the Ministry of Education of the Slovak Republic in the list of foreign renowned publishing houses, link to the page : <http://cms.crepc.sk/pokyny.aspx>
- 2 Hanko, Martin [UKOLJ309] - Soršák, Jakub - Snopko, Pavol - Opšénák, René - Zeleňák, Kamil [UKOLJ304] - Kolarovszki, Branislav [UKOLJ309]: Incidence and risk factors of early postoperative complications in patients after decompressive craniectomy: a 5-year experience [elektronický dokument] In: European Journal of Trauma and Emergency Surgery [elektronický dokument]. 46, 2020, pp. 1-12 - ISSN (print) 1863-9933 Register in database: scopus, wos, IF (JCR) 2019=2,139
- 3 Hanko, Martin UKOLJ309 - Grendár, Marián [UKOLJ110] - Snopko, Pavol - Opšénák, René - Šutovský, Juraj - Benčo, Martin - Soršák, Jakub - Zeleňák, Kamil [UKOLJ304] - Kolarovszki, Branislav [UKOLJ309]: Random Forest – Based Prediction of Outcome and Mortality in Patients with Traumatic Brain Injury Undergoing Primary Decompressive Craniectomy. World Neurosurgery. 148, 2021, pp. e450-e458 [print]

4	Javorka, Kamil [UKOLJ160] - Lehotská, Zuzana - Kozár, Marek [UKOLJ] - Uhríková, Zuzana [UKOLJ] - Kolarovszki, Branislav [UKOLJ309] - Javorka, Michal [UKOLJ160] - Zibolen, Mirko [UKOLJ272]: Heart Rate Variability in Newborns In: Physiological Research. 66, Suppl. 2 (2017), pp. 203-S214. - ISSN 0862-8408 URL: http://www.biomed.cas.cz/physiolres/2017/S2_17.htm Registered in: wos, IF (JCR) 2017=1,324
5	Baranovičová, Eva [UKOLJ110] - Galanda, Tomáš - Galanda, Miroslav - Hatok, Jozef [UKOLJ111] - Kolarovszki, Branislav [UKOLJ309] - Richterová, Romana [UKOLJ309] - Račay, Peter [KAUT] [UKOLJ111]: Metabolomic profiling of blood plasma in patients with primary brain tumours: Basal plasma metabolites correlated with tumour grade and plasma biomarker analysis predicts feasibility of the successful statistical discrimination from healthy subjects - a preliminary study. In: IUBMB Life. 71, No 12, 2019, pp. [1-9] [print]. - ISSN (print) 1521-6543. Register in: wos, scopus, IF (JCR) 2019=3,244, Kvartil Q: scimago-sjr -- Q1 [Clinical biochemistry] -- 2019, wos-jcr -- Q2 [Biochemistry & molecular biology] -- 2019

VI.4 - The most significant citations corresponding to the research/artistic/other outputs

1	<p>Kolarovszki, Branislav [UKOLJ309] - Žúbor, Pavol - Abrmanová, Hana - Benčo, Martin - Richterová, Romana [UKOLJ309] - Maťašová, Katarína [UKOLJ]: The assessment of intracranial dynamics by transcranial Dopplersonography in perioperative period in paediatric hydrocephalus In: Archives of Gynecology and Obstetrics, 287, 2, 2013: pp. 229-238. - ISSN 0932-0067 IF (JCR) 2013=1,279</p> <p>The article was published in a foreign peer-reviewed journal (IF 1,279) with a long tradition - Archives of Gynecology and Obstetrics, which was founded in 1870 and is published by the renowned foreign publishing house Springer Verlag. In this article, we published the results of our 10-year scientific work focused on the evaluation of cerebral circulation by transcranial Doppler sonography in neonates with hydrocephalus. Based on the results of our work, in addition to hemodynamic changes in cerebral circulation before and after drainage, we also presented a detailed analysis of the influence of intracranial morphological factors on Doppler parameters of cerebral circulation. The article was cited by the authors of major world scientific institutions - Boston Children's Hospital and Harvard Medical School, Boston, Massachusetts, USA and Nationwide Children's Hospital and Ohio State University Columbus, Ohio, USA in publication: La Rovere, KL, O'Brien, NF: Transcranial Color-Coded Duplex Sonography: Another Option Besides the Blind Method, Journal of Ultrasound in Medicine, 35, 3, 2016, p. 672-673 - SCI, SCOPUS and the corresponding citation</p>
2	<p>De Riggo, J., Kolarovszki, B., Richterová, R., Kolarovszká, H., Šutovský, J., Ďurdík, P.: Measurement of the blood flow velocity in the pericallosal artery of children with hydrocephalus by transcranial Doppler ultrasonography - preliminary results. Biomedical Papers, 151, 2, 2007, s. 285-289</p> <p>In this article, we presented our initial scientific results aimed at assessing cerebral circulation in children with hydrocephalus using transcranial Doppler sonography. In this paper, we have published preliminary results focusing on the evaluation of basal and compression parameters of the Doppler blood flow curve in the pericallosal artery in children with hydrocephalus. We pointed out the alteration of cerebral circulation before the drainage procedure and the adjustment of hemodynamic parameters after a successful drainage procedure. The results of our work have been cited in major scientific journals: Melo, JRT, Di Rocco, F., Blanot, S., Cuttaree, H., Sainte-Rose, C., Oliveira, J., Zerah, M., Meyer, PG. : Transcranial Doppler can predict intracranial hypertension in children with severe traumatic brain injuries. Childs Nerv Syst 27, 6, 2011, p. 979-984, SCI, SCOPUS; Zamora, C., Tekes, A., Alqahtani, E., Kalayci, O.T., Northington, F., Huisman, T.A.G.M. : Journal of Perinatology, 34, 4, 2014, p. 306-310, SCI, PURPOSE; La Rovere, K.L., O'Brien, N.F., Journal of Ultrasound in Medicine, 35, 3, 2016, p. 672-673 - SCI, SCOPUS citation - authors from major scientific institutions Boston Children's Hospital and Harvard Medical School, Boston, Massachusetts, USA and Nationwide Children's Hospital and Ohio State University Columbus, Ohio, USA. I consider the above-mentioned citation responses to be particularly important because the results of our scientific work have been cited by the world's leading experts in pediatric neurosurgery, who deal with the issue of pediatric hydrocephalus. At the same time, it is gratifying that the citation response to our results has appeared in major foreign journals - Childs Nervous System, Journal of Perinatology and Journal of Ultrasound in Medicine, which are among the world's leading journals on pediatric neurosurgery and sonography.</p>

3	<p>Maťašová, K., Zibolen, M., Kolarovszká, H., Čiljak, M., Baška, T., Murgaš, D., Kolarovszki, B., Dragula, M.: Early postnatal changes in superior mesenteric artery blood flow velocity in healthy term infants. <i>Neuroendocrinology Letters</i>, 28, 6, 2007, pp. 822-825.</p> <p>I consider the citation response to the publication in two foreign scientific monographs to be significant: Robel-Tillig, E. : Dopplersonographie intestinaler Gefäße. In: <i>Dopplersonographie in der Neonatologie</i>. Heidelberg: Springer Medizin Verlag, 2009, p.147, which deals with the use of Doppler sonography in newborns and in the monograph Deeg, K.H. : Doppler Sonography in Infancy and Childhood. In: <i>Doppler Sonography in Infancy and Childhood</i>. Cham: Springer International Publishing, 2015, p. 433-488, SCOPUS, which presents the reader with a comprehensive overview of the use of Doppler sonography in the evaluation of blood flow in children.</p>
4	<p>Opšenaák, René - Kolarovszki, Branislav [UKOLJ309] - Benčo, Martin - Richterová, Romana [UKOLJ309] - Snopko, Pavol [UKOLJ309]: Spinal Gossypiboma 20 years after Lumbar Discectomy - a Case Report. In: <i>Česká a slovenská neurologie a neurochirurgie</i>. 79, No 6, 2016, pp. 715-718. - ISSN (print) 1210-7859, Register in: wos, scopus. IF (JCR) 2016=0,368</p> <p>The article was cited twice in the worldwide important neurosurgical journal <i>World Neurosurgery</i>: in the publication Turgut, M. - Akhaddar, A. - Turgut, A. T. : <i>World Neurosurgery</i>, 2018 p. 255-267 - SCI; SCOPUS and in Lotfinia, I. - Mahdkhah, A. : <i>World Neurosurgery</i>, vol. 134, 2020, p. 343-347 - SCI; SCOPUS</p>
5	<p>Opšenaák, René - Hanko, Martin [UKOLJ309] - Snopko, Pavol [UKOLJ309] - Varga, Kristián [UKOLJ309] - Kolarovszki, Branislav [UKOLJ309]: Subsidence of anchored cage after anterior cervical discectomy. In: <i>Bratislava medical journal</i>. 120, No. 5, 2019, pp. 356-361. - ISSN (print) 0006-9248, URL: http://www.elis.sk/download_file.php?product_id=6148&session_id=teeho13k6bogeuu18cvl5bc2u2, Register in: scopus, wos</p> <p>The article was cited in a globally important and opinion-forming neurosurgical journal: Wang, M. - Mummaneni, PV - Xi, Z. - Chang, CC - Rivera, J. - Guinn, J. - Mayer, R. - Chou, D. : <i>Journal of Neurosurgery: Spine</i>, vol. 33, no. 4, 2020, p. 425-432 - SCI; SCOPUS</p>

VI.5 - Participation in conducting (leading) the most important research projects or art projects over the last six years

1	<p>Grant VEGA 1/0163/16 "The role of cytokines, chemokines and growth factors in the pathogenesis of degenerative diseases of the spine." Duration: 2016-2018 Responsible researcher: doc. MUDr. Martina Sutovska, PhD.</p>
2	<p>Grant VEGA 1/0199/19 "Blood pressure and its variability of healthy and pathological newborns." Duration: 2019-2021 Responsible researcher: prof. MUDr. Kamil Javorka, DrSc.</p>
3	<p>2018 - participation in a multicenter anonymized GNOS study (Global Neurotrauma Outcome Study), principal investigator - prof. P. J. Hutchinson, Adenbrooke's Hospital, Department of Neurosurgery, Cambridge, UK</p> <p>Results published in a major global journal: David Clark, Alexis Joannides, Amos Olufemi Adeleye, Abdul Hafid Bajamal, Tom Bashford, Hagos Biluts, Karol Budohoski, Ari Ercole, Rocío Fernández-Méndez, Anthony Figaji, Deepak Kumar Gupta, Roger Häaccar Cor, , Tariq Khan, Tsegazeab Laeke, Andrés Rubiano, Hamisi K Shabani, Kachinga Sichizya, Manoj Tewari, Abenezer Tirsit, Myat Thu, Manjul Tripathi, Rikin Trivedi, Bhagavatula Indira Devi, Franco Servadei, David Menon, Angelos Kolias, Peter Hutchinson, Outcomes Study collaborative: Casemix, management, and mortality of patients receiving emergency neurosurgery for traumatic brain injury in the Global Neurotrauma Outcomes Study: a prospective observational cohort study. <i>Lancet Neurol</i>. 2022 Mar 16; S1474-4422 (22) 00037-0. doi: 10.1016 / S1474-4422 (22) 00037-0. Online ahead of print</p>
4	<p>Grant APVV APVV-18-0088 "Complex molecular characterization of heterogeneity and signaling of glial cells in the process of tumorigenesis." Duration 1.7.2019 - 30.6.2023 Responsible researcher: doc. RNDr. Jozef Hatok, PhD. /</p>
5	<p>Grant VEGA 1/0428/21 "Immunology of degenerative cervical spine disease: possibilities of using cytokines and markers of their intracellular pathways for disease diagnosis and monitoring the effect of surgical treatment." Duration: 2021-2024, Responsible researcher: doc. MUDr. Branislav Kolarovszki, Ph.D.</p>

VII. - Overview of organizational experience related to higher education and research/artistic/other activities

VII.a - Activity, position	VII.b - Name of the institution, board	VII.c - Duration
Member of the Management of JFM CU in Martin, first vice-dean, vice-dean for development and contact with the hospital	JFM of CU in Martin	02/2019 - 03/2022
Chairman of the Quality Council of JFM CU	JFM of CU in Martin	2021-2022
President of the Council against Corruption of JFM CU	JFM of CU in Martin	2019-2022
member of the Scientific Council of JFM CU	JFM of CU in Martin	02/2019 - 03/2022
Member of the Slovak Neurosurgical Society, Member of the Slovak Spondylosurgical Society, Member of the Slovak Medical Chamber, Member of the Slovak Medical Society		02/2019 - 03/2022

VIII. - Overview of international mobilities and visits oriented on education and research/artistic/other activities in the given field of study

VIII.a - Name of the institution	VIII.b - Address of the institution	VIII.c - Duration (indicate the duration of stay)	VIII.d - Mobility scheme, employment contract, other (describe)
Clinic of Radiology, Department of Angiography, Central Military Hospital, Praha - Střešovice	Clinic of Radiology, Department of Angiography, Central Military Hospital, Praha - Střešovice, U Vojenské nemocnice 1200/1, 162 00 Praha 6-Břevnov, Česko	5.11.-14.12.2007	study stay abroad
22nd EFORT Instructional Course: Spine degenerative, trauma, deformities	EFORT Course Prague	10.-11.10.2008	foreign course
AO Neuro Course Skull Base	Vienna, AKH, Medical University Vienna	28.-30.10.2015	foreign course
Endoscopic Pituitary Surgery, 8th International Hands-On Workshop	Vienna, AKH, Medical University Vienna	9.-10. 11. 2015	foreign course
Exhibition Medica - worldwide exhibition of medical technology and technology, presentation of individualized cranial implants and individualized replacements of cervical intervertebral discs made by 3D printing - use in neurosurgery, participation support by SARIO agency (Slovak Investment and Trade Development Agency)	Worldwide Exhibition Medica, Dusseldorf, Germany	18.-21. 11. 2019	Worldwide Exhibition Medica,
Mobidays-Strasbourg, course of spondylosurgery	Strasbourg, France	10-12.12.2014	foreign course

IX. - Other relevant facts