

## Research/art/teacher profile of a person

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

### I. - Basic information

<b>I.1 - Surname</b>	Kantorová
<b>I.2 - Name</b>	Ema
<b>I.3 - Degrees</b>	Associate prof, MD, PhD
<b>I.4 - Year of birth</b>	1965
<b>I.5 - Name of the workplace</b>	Clinic of Neurology
<b>I.6 - Address of the workplace</b>	Jessenius Faculty in Medicine in Martin, Comenius University Bratislava
<b>I.7 - Position</b>	Associate Professor
<b>I.8 - E-mail address</b>	ema.kantorova@uniba.sk
<b>I.9 - Hyperlink to the entry of a person in the Register of university staff</b>	<a href="https://www.portalvs.sk/regzam/detail/5253">https://www.portalvs.sk/regzam/detail/5253</a>
<b>I.10 - Name of the study field in which a person works at the university</b>	Neurology
<b>I.11 - ORCID iD</b>	<a href="https://orcid.org/0000-0003-4305-3607">https://orcid.org/0000-0003-4305-3607</a>

### II. - Higher education and further qualification growth

#### II.1 - First degree of higher education

<b>II.a - Name of the university or institution</b>	Faculty of Medicine, Palacky University in Olomouc
<b>II.b - Year</b>	1990
<b>II.c - Study field and programme</b>	General Medicine

#### II.2 - Second degree of higher education

<b>II.a - Name of the university or institution</b>	Comenius University in Bratislava
<b>II.b - Year</b>	2002, 2007
<b>II.c - Study field and programme</b>	Neurology I., II.

#### II.3 - Third degree of higher education

<b>II.a - Name of the university or institution</b>	Jessenius Faculty of Medicine in Martin
<b>II.b - Year</b>	2011
<b>II.c - Study field and programme</b>	Internal Medicine

#### II.4 - Associate professor

<b>II.a - Name of the university or institution</b>	Jessenius Faculty of Medicine in Martin
<b>II.b - Year</b>	2018
<b>II.c - Study field and programme</b>	Neurology

#### II.5 - Professor

#### II.6 - Doctor of Science (DrSc.)

### III. - Current and previous employment

<b>III.a - Occupation-position</b>	<b>III.b - Institution</b>	<b>III.c - Duration</b>
lecturer	Medical Faculty, Palacky University in Olomouc, Czech Republic	1995-1999
resident neurologist	University Hospital in Martin, Slovakia	2000-2007
licenced neurologist + researcher	University Hospital in Martin + Jessenius Faculty of Medicine	1.9.2007 - 31.8.2012
licenced neurologist + lecturer	University Hospital in Martin, Jessenius Faculty of Medicine	1.9.2012 - 31.5.2018
associate professor	Jessenius Faculty of Medicine	1.6.2018 - present

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

<b>IV.a - Activity description, course name, other</b>	<b>IV.b - Name of the institution</b>	<b>IV.c - Year</b>
Electroencephalography I.	Jessenius Faculty of Medicine in Martin	2020

#### 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

<b>V.1.a - Name of the profile course</b>	<b>V.1.b - Study programme</b>	<b>V.1.c - Degree</b>	<b>V.1.d - Field of study</b>
Neurology	General Medicine	I., II.	General Medicine
Neurology and Nursing	Nursing	I., II.	Nursing
Internal Medicine/Gerontology and Nursing	Nursing	I., II.	Nursing

##### 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

<b>V.2.a - Name of the study programme</b>	<b>V.2.b - Degree</b>	<b>V.2.c - Field of study</b>
Neurology - specialization training	II.	Neurology

##### 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

<b>V.3.a - Name of the field of habilitation procedure and inaugural procedure</b>	<b>V.3.b - Study field to which it is assigned</b>
Neurology	General medicine

## V.4 - Overview of supervised final theses

### V.4.1 - Number of currently supervised theses

<b>V.4.a - Bachelor's (first degree)</b>	0
<b>V.4.b - Diploma (second degree)</b>	2
<b>V.4.c - Dissertation (third degree)</b>	1

### V.4.2 - Number of defended theses

<b>V.4.a - Bachelor's (first degree)</b>	1
<b>V.4.b - Diploma (second degree)</b>	18
<b>V.4.c - Dissertation (third degree)</b>	1

## V.5 - Overview of other courses taught in the current academic year according to study programmes

<b>V.5.a - Name of the course</b>	<b>V.5.b - Study programme</b>	<b>V.5.c - Degree</b>	<b>V.5.d - Field of study</b>
Seminary of Diploma Thesis	General Medicine	I	General Medicine

## 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

<b>VI.1.a - Overall</b>	193
<b>VI.1.b - Over the last six years</b>	97

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

<b>VI.1.a - Overall</b>	91
<b>VI.1.b - Over the last six years</b>	79

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

<b>VI.1.a - Overall</b>	321
<b>VI.1.b - Over the last six years</b>	289

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

<b>VI.1.a - Overall</b>	282
<b>VI.1.b - Over the last six years</b>	263

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

<b>VI.1.a - Overall</b>	3
<b>VI.1.b - Over the last six years</b>	3

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

- Kantorová, E** - Poláček, H - Bittšanský, M - Baranovičová, E- Hnilicová, P - Čierny, D - Sivák, Š - Nosál, V - Zeleňák, K - Kurča, E: Hypothalamic damage in multiple sclerosis correlates with disease activity, disability, depression, and fatigue. In: Neurological Research. - Roč. 39, č. 4 (2017), s. 323-330. - ISSN 0161-6412. **IF (JCR) 2017=1.449, Q4: jcr-sjr. Citations (34)**
- Čierny, D - Hanyšová, S - Michalík, J - **Kantorová, E** - Kurča, E- Škereňová, M - Lehotský, J: Genetic variants in interleukin 7 receptor alpha chain (IL-7Ra) are associated with multiple sclerosis risk and disability progression in Central European Slovak population In: Journal of Neuroimmunology. - Roč. 282 (2015), s. 80-84. - ISSN 0165-5728. **IF (JCR) 2015=2.536, Q3: wos-jcr. Citations (20)**
- Kantorová, E - Chomová, M - Kurča, E - Sivák, Š - Zeleňák, K - Kučera, P - Galajda, P: Leptin, adiponectin and ghrelin, new potential mediators of ischemic stroke. In: Neuroendocrinology Letters. Roč 32, č.5 (2011), s: 716-721. **IF (2011) = 1.296, Q4:wos-jcr. Citations (30)**
- Sivák, Š - Bittšanský, M - Grossmann, J - Nosál, V - **Kantorová, E**- Siváková, J - Demková, A. - Hnilicová, P - Dobrota, D - Kurča, E: Clinical correlations of proton magnetic resonance spectroscopy findings in acute phase after mild traumatic brain injury In: Brain Injury. - Roč. 28, č. 3 (2014), s. 341-346. - ISSN 0269-9052; **IF (JCR) 2014=1.808, Q2: sci-sjr; Citations (26)**

5	<p><b>Kantorová, E</b> - Žiak, P - Kurča, E - Koyšová, M - Hladká, M - Zeleňák, K - Michalík, J - Sedláková, A: Visual evoked potential and magnetic resonance imaging are more effective markers of multiple sclerosis progression than laser polarimetry with variable corneal compensation. In: <i>Frontiers in Human Neuroscience</i>. - Roč. 8, čl. 10 (2014), ISSN 1662-5161. <b>IF (2014) = 3.626, Q2: wos-sci. Citations (12)</b></p>
<b>VI.3 - The most significant research/artistic/other outputs over the last six years</b>	
1	<p><b>Kantorová, E</b> - Poláček, H - Bittšanský, M - Baranovičová, E- Hnilicová, P - Čierny, D - Sivák, Š - Nosál, V - Zeleňák, K - Kurča, E: Hypothalamic damage in multiple sclerosis correlates with disease activity, disability, depression, and fatigue. In: <i>Neurological Research</i>. - Roč. 39, č. 4 (2017), s. 323-330. - ISSN 0161-6412. <b>IF (JCR) 2017=1.449, Q2: jcr-sjr. Citations (34 )</b></p>
2	<p><b>Kantorová, E</b>- Hnilicová, P- Bogner, W- Grendár, M- Čierny, D- Hečková, E - Strasser, B- Ružinák, R- Zeleňák, K - Kurča, E: Positivity of oligoclonal bands in the cerebrospinal fluid predisposed to metabolic changes and rearrangement of inhibitory/excitatory neurotransmitters in subcortical brain structures in multiple sclerosis. In: <i>Multiple Sclerosis and Related Disorders</i>. - Roč. 52 (2021), s. [1-7], ISSN 2211-0348. <b>IF (JCR) 2020=4.339, Q2: wos-jcr. Citations (2)</b></p>
3	<p>Hnilicová, P - Štrbák, O - Kolísek, M - Kurča, E - Zeleňák, K - Sivák, Š - <b>Kantorová, E</b>: Current Methods of Magnetic Resonance for Noninvasive Assessment of Molecular Aspects of Pathoetiology in Multiple Sclerosis. In: <i>International journal of molecular sciences [elektronický dokument]</i>. - Roč. 21, č. 17 (2020), s. [1-34], art. no. 6117, ISSN 1422-0067. <b>IF (JCR) 2020=5.924, Q1:sci-sjr. Citations (2)</b></p>
4	<p>Hečková, E - Dal-Bianco, A - Strasser, B - Hangel, G - Lipka, A - Motyka, S- Hingerl, L - Rommer, P - Berger, Th - Hnilicová, P- <b>Kantorová, E</b> - Leutmezer, F - Kurča, E - Gruber, S - Trattinig, S - Bogner, W: Extensive Brain Pathologic Alterations Detected with 7.0-T MR Spectroscopic Imaging Associated with Disability in Multiple Sclerosis. In: <i>Radiology</i>. - Roč. 303, č. 1 (2022), s. 141-150. - ISSN 0033-8419. <b>IF (JCR) 2021=29.146, Q1:wos-jcr. Citations (9)</b></p>
5	<p>Lipka, A - Niess, E - Dal-Bianco, A - Hangel, G - Rommer, P - Strasser, B - Motyka, S - Hingerl, L - Berger, Th- Hnilicová, P - <b>Kantorová, E</b> - Leutmezer, F - Kurča, E - Gruber, S - Trattinig, S - Bogner, W: Lesion-Specific Metabolic Alterations in Relapsing-Remitting Multiple Sclerosis Via 7 T Magnetic Resonance Spectroscopic Imaging. In: <i>Investigative radiology [elektronický dokument]</i>. - Roč. 58, č. 2 (2023), s. 156-165 . - ISSN 0020-9996. <b>IF (JCR) 2021=10.065, Q1:wos-jcr</b></p>
<b>VI.4 - The most significant citations corresponding to the research/artistic/other outputs</b>	
1	<p>Kantorová, E - Poláček, H - Bittšanský, M - Baranovičová, E- Hnilicová, P - Čierny, D - Sivák, Š - Nosál, V - Zeleňák, K - Kurča, E: Hypothalamic damage in multiple sclerosis correlates with disease activity, disability, depression, and fatigue. In: <i>Neurological Research</i>. - Roč. 39, č. 4 (2017), s. 323-330. - ISSN 0161-6412, IF (JCR) 2017=1.449, Q4: jcr-sjr. Citations (34). <b>• Cited in: [o1] 2018 Solaro, C. - Gamberini, G. - Masuccio, F. G.: CNS Drugs, roč. 32, č. 2, 2018, s. 117-133. IF (2018) = 4.192, Q1: sci-scopus</b></p>
2	<p>Hečková, E - Dal-Bianco, A - Strasser, B - Hangel, G - Lipka, A - Motyka, S- Hingerl, L - Rommer, P - Berger, Th - Hnilicová, P- Kantorová, E - Leutmezer, F - Kurča, E - Gruber, S - Trattinig, S - Bogner, W: Extensive Brain Pathologic Alterations Detected with 7.0-T MR Spectroscopic Imaging Associated with Disability in Multiple Sclerosis. In: <i>Radiology</i>. - Roč. 303, č. 1 (2022), s. 141-150 . - ISSN 0033-8419. IF (JCR) 2021=29.146, Q1:wos-jcr. Citations (9) <b>Cited in: [n1] 2022 zz ~ Barker, P. B.: Radiology, roč. 303, č. 1, 2022, s. 151-152. IF (JCR) 2021=29.146, Q1:wos-jcr</b></p>
3	<p>Hečková, E - Dal-Bianco, A - Strasser, B - Hangel, G - Lipka, A - Motyka, S- Hingerl, L - Rommer, P - Berger, Th - Hnilicová, P- Kantorová, E - Leutmezer, F - Kurča, E - Gruber, S - Trattinig, S - Bogner, W: Extensive Brain Pathologic Alterations Detected with 7.0-T MR Spectroscopic Imaging Associated with Disability in Multiple Sclerosis. In: <i>Radiology</i>. - Roč. 303, č. 1 (2022), s. 141-150. - ISSN 0033-8419. IF (JCR) 2021=29.146, Q1:wos-jcr. Citations (9) <b>Cited in: [n1] Wright, A. M. - Murali-Manohar, S. - Henning, A.: NeuroImage, č. 263, 2022, čl. č. 119574. IF (2022) = 7.4, Q1:wos-jcr</b></p>

4	<p>Kantorová, E - Poláček, H - Bittšanský, M - Baranovičová, E- Hnilicová, P - Čierny, D - Sivák, Š - Nosál, V - Zeleňák, K - Kurča, E: Hypothalamic damage in multiple sclerosis correlates with disease activity, disability, depression, and fatigue. In: Neurological Research. - Roč. 39, č. 4 (2017), s. 323-330. ISSN 0161-6412, IF (JCR) 2017=1.449, Q2: jcr-sjr. Citations (34).</p> <p>• <b>Cited in: [o1] 2020 Palotai, M. - Guttmann, C. R. G.: Multiple Sclerosis Journal, roč. 26, č. 7, 2020, s. 751-764. IF (2020) = 6.04, Q1: sci-scopus</b></p>
5	<p>Hečková, E - Dal-Bianco, A - Strasser, B - Hangel, G - Lipka, A - Motyka, S- Hingerl, L - Rommer, P - Berger, Th - Hnilicová, P- Kantorová, E - Leutmezer, F - Kurča, E - Gruber, S - Trattinig, S - Bogner, W: Extensive Brain Pathologic Alterations Detected with 7.0-T MR Spectroscopic Imaging Associated with Disability in Multiple Sclerosis. In: Radiology. - Roč. 303, č. 1 (2022), s. 141-150. - ISSN 0033-8419. IF (JCR) 2021=29.146, Q1:wos-jcr. Citations (9)</p> <p><b>Cited in: [n1] 2023 zz ~ van der Weijden, C. W. J. - Biondetti, E. - Gutmann, I. W. - Dijkstra, H. - McKerchar, R. - Faria, D. D. - de Vries, E. F. J. - Meilof, J. F. - Dierckx, R. A. J. O. - Prevost, V. H. - Rauscher, A.: Quantitative myelin imaging with MRI and PET: an overview of techniques and their validation status. In: Brain, roč. 146, č. 4, 2023, s. 1243-1266. IF (2023) 14.5, Q1: sci-scopus</b></p>

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

1	<p>APVV-14- 0088 Multiparametric mapping of brain tissue using magnetic resonance in selected neurological disorders (Investigator) 01.10.2013 - 30.09.2017</p> <p>• Hnilicová, P - Kantorová, E - Poláček, H - Grendár, M - Bittšanský, M - Čierny, D - Sivák, Š - Zeleňák, K - Lehotský, J - Dobrota, D - Kurča, E: Altered hypothalamic metabolism in early multiple sclerosis – MR spectroscopy study. In: Journal of the Neurological Sciences. 407, 1-9. <b>IF (2018)=3.115 , Q2: jcr-sjr. Citations (5).</b></p> <p>• Kantorová, E - Kurča, E - Čierny, D - Dobrota, D - Sivák, Š: The Role of Over-Nutrition and Obesity in Multiple Sclerosis In: Trending Topics in Multiple Sclerosis. - Rijeka : InTech, 2016. - S. 195-210 [1,2AH]. - ISBN 978-953- 51-2656-0</p>
2	<p>• VEGA 1/0287/16 Correlation of MR volumetry and MR spectroscopy of subcortical gray matter with electrophysiological measures and selected laboratory markers in patients during early stages of multiple sclerosis, with a focus in highly active forms of the disorder (Principal investigation) 2016-2018</p> <p>• <b>Kantorová, E</b> - Poláček, H - Bittšanský, M - Baranovičová, E- Hnilicová, P - Čierny, D - Sivák, Š - Nosál, V - Zeleňák, K - Kurča, E: Hypothalamic damage in multiple sclerosis correlates with disease activity, disability, depression, and fatigue. In: Neurological Research. - Roč. 39, č. 4 (2017), s. 323-330. - ISSN 0161-6412, <b>IF (JCR) 2017=1.449, Q2: jcr-sjr. Citations (34)</b></p> <p>• <b>Kantorová, E</b>- Bittšanský, M - Sivák, Š - Baranovičová, E - Hnilicová, P - Nosál, V - Čierny, D - Zeleňák, K - Brück, W - Kurča, E. Anaplastic astrocytoma mimicking progressive multifocal leucoencephalopathy: a case report and review of the overlapping</p>

3	<p>VEGA 1/0301/19 Assessment of cognitive impairment in multiple sclerosis and its relationship with genetic and radiological markers, 1/2019-12/2022 (Principal investigator)</p> <p>Hnilicová, P - Štrbák, O - Kolísek, M - Kurča, E - Zeleňák, K - Sivák, Š - Kantorová, E: Current Methods of Magnetic Resonance for Noninvasive Assessment of Molecular Aspects of Pathoetiology in Multiple Sclerosis. In: International journal of molecular sciences. - Roč. 21, č. 17 (2020), s. [1-34], art. no. 6117 ISSN 1422-0067. <b>IF (JCR) 2020=5.924, Q1:wos-jcr. Citations (2)</b></p> <ul style="list-style-type: none"> <li>• Kantorová, E- Hnilicová, P- Bogner, W- Grendár, M- Čierny, D- Hečková, E - Strasser, BRužinák, R- Zeleňák, K - Kurča, E: Positivity of oligoclonal bands in the cerebrospinal fluid predisposed to metabolic changes and rearrangement of inhibitory/excitatory neurotransmitters in subcortical brain structures in multiple sclerosis. In: Multiple Sclerosis and Related Disorders. - Roč. 52 (2021), s. [1-7], ISSN 2211-0348. <b>IF (JCR) 2020=4.339, Q2: wos-jcr. Citations (2)</b></li> <li>• Kantorová, E - Hnilicová, P - Bogner, W - Grendár, M) - Grossmann, J - Kováčová, S - Hečková, E - Strasser, B - Čierny, D - Zeleňák, K - Kurča, E: Neurocognitive performance in relapsing-remitting multiple sclerosis patients associated with metabolic abnormalities of the thalamus but not the hippocampus- GABA-edited 1H MRS study. In: Neurological Research. - Roč. 44, č. 1 (2022), s. 57-64 - ISSN 0161-6412. <b>IF (JCR) 2021=2.529, Q2:wos-jcr. Citations (1)</b></li> </ul>
4	<p>Projekt 7/2018/868/IX/JLF/KD. Prevalence and clinical correlates of fatigue in Slovak multiple sclerosis patients and healthy controls. Department of Neurology, University Hospital Zurich, Switzerland, Frauenklinikstrasse 26, 8091 Zurich, , 2018 - , (Principal investigator)</p> <ul style="list-style-type: none"> <li>• Franeková S. <a href="#">diplomová práca - Hodnotenie kognitívnych funkcií a únavy pri sclerosis multiplex</a></li> </ul>
5	<p>Project APVV 22-0065: Pokročilá diagnostika neurodegeneratívnych ochorení pomocou techník magnetickej rezonancie a umelej inteligencie. Advanced diagnostics of neurodegenerative disorders using magnetic resonance techniques and artificial intelligence. (2023 - ). Subinvestigator</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 Editorial Board	Neurológia	2018 - present
Member of the Scientific Panel of Neuroimmunology	European Academy of Neurology	2022 -
organisation staff member	Neurological congresses	2012- present

## 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)
Medical University of Vienna, High Field MR Centre	Lazarettgasse 14 1090 Vienna, Austria		Examination of patients, financed by VEGA 1/0287/16

## IX. - Other relevant facts

Date of last update

25.10.2023