

## Description of the field of habilitation and inauguration proceedings

University of Ss. Cyril and Methodius in Trnava
Nám. J. Herdu 2, 917 01 Trnava
Identification number of the UCM: 036078913
Name of the faculty: Faculty of Natural Sciences
Address of the faculty: Nám. J. Herdu 2, 917 01 Trnava

The University of Ss. Cyril and Methodius in Trnava body for approving the field of habilitation and inauguration proceedings: <b>Internal Quality Evaluation Board of UCM in Trnava</b>
Date of the field of habilitation and inauguration proceedings approval or date of the latest change in the field of habilitation and inauguration proceedings by the University of Ss. Cyril and Methodius in Trnava body: <i>(doplniť po schválení v RVHK UCM)</i>
Reference to the results of the latest periodic review of the field of habilitation and inauguration: <i>(doplniť po periodickom hodnotení v RVHK UCM)</i>

### 1. Definition of the field of habilitation and inauguration proceedings

- a) Name of the field of habilitation and inauguration proceedings

Molecular biology

- b) Content of the field of habilitation and inauguration proceedings

**The habilitation and inauguration** procedures are carried out in accordance with the Higher Education Act, Ministry of Education Decree No. 246/2019 Coll. on the procedure for obtaining scientific-pedagogical titles of “associate professor” and “professor”, as amended and the internal regulations of the University of Ss. Cyril and Methodius University (UCM) in Trnava. It also complies with the internal regulation of UCM in Trnava 21/2021 on the principles of the habilitation procedure for the award of the title of “associate professor” and the inauguration procedure for the award of the title of “professor” at UCM.

**The criteria for assessing the fulfilment of the requirements** for obtaining the scientific-pedagogical titles or the artistic-pedagogical titles of “associate professor” are determined by the conditions set out in the internal regulation of UCM in Trnava 22/2021, approved by the Scientific Board of UCM on 20.4.2021, which must be fulfilled by candidates for obtaining the scientific-pedagogical title of “associate professor” or “professor”.

<http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inaugaracie.html>

The study field of molecular biology involves the knowledge, understanding, and application of knowledge about living organisms of various structural and functional complexity (from viruses to humans) and at different organisation levels (molecule, cell, individual, population, community, ecosystem). The structures, functions, processes, and interactions within the cell and also between cells of living organisms are studied at the level of molecules and macromolecules (mainly DNA, RNA, proteins) involved in the expression of genetic information and are essential for the life of the organism. Particularly, it uses advanced techniques and tools of the genomic and post-genomic era. Receives knowledge and experiences from other biological and natural science disciplines relevant to the study of living organisms and nature as an integrated unit. Molecular biology contributes to the progress of science and scientific knowledges and finds applications in the fields of biotechnology, pharmacology and medicine, agriculture and forestry, industry and environmental protection.

- c) Name and code of the field of study(s) according to the system of fields of study to which the habilitation and inauguration proceedings is assigned<sup>1</sup>

3. Biology

- d) Characteristics of the field of habilitation and inauguration proceedings

**Associate professor in molecular biology has job responsibilities:**

THE FIELD OF EDUCATION

- In collaboration with the professor, contributes to the development of knowledge in the field of study 3. Biology.
- Guarantees or contributes to guaranteeing the quality and development of the bachelor's degree programme in the field of study 3. Biology.
- Conducts lectures and seminars, assesses students, including examinations at state examinations, conducts and opposes final theses.
- Supervises doctoral students.
- Creates study materials.
- Promotes and popularises the study programme in various forms and for various groups of interested persons.

THE FIELD OF SCIENCE AND TECHNOLOGY

- Carries out research or development activities, publishes results in scientific and professional journals and presents results at scientific or professional events of international importance.
- Prepares concepts and proposals for research and development programmes and projects.
- Leads research team.
- Organises scientific events.

**A professor of molecular biology has work responsibilities:**

THE FIELD OF EDUCATION

- Contributes to the advancement of knowledge in the field of study 3. Biology.
- Guarantees or contributes to guaranteeing the quality and development of the study programme in the field of study 3. Biology.

<sup>1</sup> The field of habilitation and inauguration proceedings may be assigned to a maximum of two fields of study.

- Conducts lectures and seminars, assesses students, including examinations at state examinations, and supervises and reviews final theses.
- Supervises doctoral students.
- Creates study materials.
- Promotes and popularizes the study programme in various forms and for various groups of interested students.

#### THE FIELD OF SCIENCE AND TECHNOLOGY

- Formulates trends and concepts in the field of molecular biology.
- Establishes and runs its own scientific school.
- Carries out research and development activities, publishes results in scientific and professional journals and presents them at scientific or professional events of international importance.
- Prepares concepts and proposals for research and development programmes and projects.
- Leads research team.
- Organises international scientific events.

Associate professor as well as professor in the field of Molecular Biology is characterized by independent, critical and analytical thinking. He/she applies his/her own knowledge of theoretical analysis and comprehensive scientific research to solve problems in his/her chosen field. Takes social, scientific, and ethical considerations into account in formulating research objectives and interpreting research results. He/she can design, validate and implement new research and working procedures based on own outputs and findings. He/she independently presents research and development results. He/she can determine the focus of research and coordinate a team in a relevant scientific area, obtain national and international projects.

## **2. The level of education in the field of habilitation and inauguration proceedings**

- a) The third level implemented study programmes in the field of study(s) to which the habilitation and inaugural proceedings are assigned are:

100717 Molecular biology (full-time)/ <https://www.portalvs.sk/sk/morho/zobrazit/100717>

100718 Molecular biology (part-time)/ <https://www.portalvs.sk/sk/morho/zobrazit/100718>

- b) The second level implemented study programmes in the field of study(s) to which the habilitation and inaugural proceedings are assigned are:

100677 Applied Biology/ <https://www.portalvs.sk/sk/morho/zobrazit/100677>

- c) Joined first and second level implemented study programmes in the field of study(s) to which the habilitation and inaugural proceedings are assigned are:

107124 Applied Biology / <https://www.portalvs.sk/sk/morho/zobrazit/107124>

## **3. Persons responsible for the habilitation and inauguration proceedings**

a) Group of five persons<sup>2</sup>, responsible for the development and quality assurance of the habilitation and inauguration proceedings:

Name and surname	Title	Function	Scientific or artistic activity	
			at the UCM for fixed weekly working hours	in the field of habilitation and inauguration proceeding or in a related field
1. Ján Kraic	professor	professor	<a href="https://www.portalvs.sk/regzam/detail/10524">https://www.portalvs.sk/regzam/detail/10524</a>	Biology <a href="http://fpv.ucm.sk/sk/pracovnici-bt.html">http://fpv.ucm.sk/sk/pracovnici-bt.html</a>
2. Juraj Krajčovič	professor	professor	<a href="https://www.portalvs.sk/regzam/detail/4310">https://www.portalvs.sk/regzam/detail/4310</a>	Molecular biology <a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>
3. Štefan Janeček	professor	professor	<a href="https://www.portalvs.sk/regzam/detail/14371">https://www.portalvs.sk/regzam/detail/14371</a>	Molecular biology <a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>
4. Ildikó Matušiková	associate professor	associate professor	<a href="https://www.portalvs.sk/regzam/detail/24651">https://www.portalvs.sk/regzam/detail/24651</a>	Molecular biology <a href="http://fpv.ucm.sk/sk/pracovnici-ker.html">http://fpv.ucm.sk/sk/pracovnici-ker.html</a>
5. Daniel Mihálik	associate professor	associate professor	<a href="https://www.portalvs.sk/regzam/detail/10269">https://www.portalvs.sk/regzam/detail/10269</a>	Molecular biology <a href="http://fpv.ucm.sk/sk/pracovnici-bt.html">http://fpv.ucm.sk/sk/pracovnici-bt.html</a>

b) Composition of the Scientific Board of the University of Ss. Cyril and Methodius in Trnava:

<https://www.ucm.sk/en/scientific-board-research/>

Significant expert(s) with professional capacity to assess the habilitation and the inauguration procedure in the field of study to which the habilitation and the inauguration procedure is assigned:

- prof. RNDr. Jaromír Pastorek, DrSc.
- Dr. h. c. prof. Ing. Stanislav Miertuš, DrSc.
- prof. RNDr. Agáta Fargašová, DrSc.

c) Composition of the Scientific Board of the faculty of the University of Ss. Cyril and Methodius in Trnava

<http://fpv.ucm.sk/en/management/scientific-board.html>

Significant expert(s) with professional capacity to assess the habilitation and the inauguration procedure in the field of study to which the habilitation and the inauguration procedure is assigned:

<sup>2</sup> In the case of a field of habilitation and inauguration proceedings the content of which is related to the preparation of experts for some of the regulated professions with the coordination of education listed in Annex no. 2 of Decree of the Ministry of Education, Science, Research and Sport of the Slovak Republic no. 16/2016 Coll. and is based on the definition of the specializations assigned to the regulated professions in question in Annex no. 3 of Government Regulation no. 296/2010 Coll., it is sufficient to meet this requirement if three persons work at the UCM in the field of habilitation and inauguration proceeding or in a related field for fixed weekly working hours, of these persons at least one of them works in the position of professor and has the title "professor" and the others are in the position of associate professors and have the title "associate professor". Each of these persons may be responsible for the development and quality assurance of maximum one habilitation and inauguration proceeding at the higher education institution in the Slovak Republic.

- prof. RNDr. Jaromír Pastorek, DrSc.
- prof. RNDr. Zdenka Gálová, CSc.

d) Other support staff of the field of habilitation and inauguration proceedings

Mgr. Magdaléna Mečiarová  
<http://fpv.ucm.sk/sk/vedenie/dekanat.html>

Vice-Rector for Quality and Science at the UCM, available at:  
 prof. PhDr. Ladislav Lenovský, PhD.  
<https://www.ucm.sk/en/rectors-collegium/?highlight=Lenovsk%FD>

Department of Quality and Science of the UCM, available at:  
<https://www.ucm.sk/en/contacts-research/>

Faculty Vice-Dean for Science, available at:

prof. Mgr. Alžbeta Marček Chorvátová, DrSc.  
<http://fpv.ucm.sk/en/management/faculty-management.html>

Department/staff member of the faculty, available at:  
<http://fpv.ucm.sk/en/management/faculty-management.html>

#### 4. The level of research, artistic and other activities in the field of study of habilitation and inauguration proceedings, and the level of the UCM quality culture

Indicator	Number	Source link
Publication outputs of a group of persons for the last 6 years in the field according to output categories	121 (WoS)	<a href="https://www.webofscience.com/wos/woscc/basic-search">https://www.webofscience.com/wos/woscc/basic-search</a>
	140 (Scopus)	<a href="https://www.scopus.com/search/form.uri?display=basic#author">https://www.scopus.com/search/form.uri?display=basic#author</a> <a href="http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inaugaracie.html">http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inaugaracie.html</a>
Publication outputs of a group of persons registered in WoS or Scopus for the last 6 years in the field according to output categories (or equivalent, e.g., in art)	121 (WoS)	<a href="https://www.webofscience.com/wos/woscc/basic-search">https://www.webofscience.com/wos/woscc/basic-search</a>
	140 (Scopus)	<a href="https://www.scopus.com/search/form.uri?display=basic#author">https://www.scopus.com/search/form.uri?display=basic#author</a> <a href="http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inaugaracie.html">http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inaugaracie.html</a>
Publication outputs of doctoral students registered in WoS or Scopus for the last 6 years in the field according to the categories of outputs (or equivalent, e.g., in art).	42 (WoS)	<a href="https://www.webofscience.com/wos/woscc/basic-search">https://www.webofscience.com/wos/woscc/basic-search</a>
	45 (Scopus)	<a href="https://www.scopus.com/search/form.uri?display=basic#author">https://www.scopus.com/search/form.uri?display=basic#author</a>
Responses to the publication outputs of a group of people for the last 6 years	2205 (WoS)	<a href="https://www.webofscience.com/wos/woscc/basic-search">https://www.webofscience.com/wos/woscc/basic-search</a>

	2908 (Scopus)	<a href="https://www.scopus.com/search/form.uri?display=basic#author">https://www.scopus.com/search/form.uri?display=basic#author</a>
Responses to the publication outputs of a group of persons registered in WoS and Scopus for the last 6 years	2205 (WoS)	<a href="https://www.webofscience.com/wos/woscc/basic-search">https://www.webofscience.com/wos/woscc/basic-search</a>
	2908 (Scopus)	<a href="https://www.scopus.com/search/form.uri?display=basic#author">https://www.scopus.com/search/form.uri?display=basic#author</a>
Outputs of creative activity of top international quality (A +) according to the practice in the field	80 (Q1)	<a href="https://www.webofscience.com/wos/woscc/basic-search">https://www.webofscience.com/wos/woscc/basic-search</a>
PhD. students per supervisor (average and maximum)	1 (average) 2 (max.)	<a href="http://fpv.ucm.sk/sk/o-nas/absolventi-phd.html">http://fpv.ucm.sk/sk/o-nas/absolventi-phd.html</a> <a href="http://fpv.ucm.sk/sk/studium/doktorandske-studium.html">http://fpv.ucm.sk/sk/studium/doktorandske-studium.html</a>
PhD. students in the corresponding field of habilitation and inauguration proceedings	2 (1st year) 3 (2nd) 0 (3rd) 3 (4th) 11 (graduated)	<a href="http://fpv.ucm.sk/sk/o-nas/absolventi-phd.html">http://fpv.ucm.sk/sk/o-nas/absolventi-phd.html</a>
Supervisors in the field of habilitation and inauguration proceedings (natural persons, also FTE - the equivalent of full-time job)	12	<a href="http://fpv.ucm.sk/images/studium/MOBI_skolitelia_2022.pdf">http://fpv.ucm.sk/images/studium/MOBI_skolitelia_2022.pdf</a>
Approved proposals for the title of professor in the Scientific Board of the UCM in the current year	1 (2021)	<a href="http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html">http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html</a>
Approved proposals for the title of professor in the faculty Scientific Board of the UCM in the current year	2 (2019) 1 (2020) 2 (2021)	<a href="http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html">http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html</a>
Suspended habilitation and inaugural proceedings (proceedings initiated which were not approved by the Scientific Board, withdrawn by the applicant or otherwise stopped) in the current year	0	<a href="http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html">http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html</a>

Evaluation of the level of creative activity of the UCM workplace, which is carried out by the field of habilitation and inauguration proceedings	A+ (4,52)	<a href="http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html">http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html</a>
The amount of financial support from national and international grant schemes and other competitive sources in the issue of the field	74160,87 (2020)	<a href="http://fpv.ucm.sk/images/vedenie/Kompl-etna%20sprava%20VVC%202020_final2.pdf">http://fpv.ucm.sk/images/vedenie/Kompl-etna%20sprava%20VVC%202020_final2.pdf</a>
	90835 (2019)	<a href="http://fpv.ucm.sk/images/vedenie/Kompl-etna%20sprava%20VVC%202019%20nova%201.pdf">http://fpv.ucm.sk/images/vedenie/Kompl-etna%20sprava%20VVC%202019%20nova%201.pdf</a>
	179838 (2018)	<a href="http://fpv.ucm.sk/images/vedenie/Kompl-etna%20sprava%20VVC%202018.pdf">http://fpv.ucm.sk/images/vedenie/Kompl-etna%20sprava%20VVC%202018.pdf</a>
Percentual expression of the representation of study fields in which the UCM carries third-level study programmes out of all study fields in which the UCM carries out study programmes	73 %  15 fields of study; 11 PhD. SP	<a href="https://www.ucm.sk/sk/akreditovane-studijne-programy-01/">https://www.ucm.sk/sk/akreditovane-studijne-programy-01/</a>

The most important outputs of the creative activity of the group of persons responsible for the development and quality assurance of the field of habilitation and inaugural proceedings:

Person	Category, title, and abbreviated bibliographic data of the output	Available at:	Cited in:	Characterized:	Quality level
1.	For the last 6 years <b>ADC</b> Sák, M., Dokupilová, I., Kaňuková, Š., Mrkvová, M., Mihálik, D., Hauptvogel, P., <b>Kraic, J.</b> : Biotic and Abiotic Elicitors of Stilbenes Production in <i>Vitis vinifera</i> L. Cell	<a href="https://doi.org/10.3390/plants10030490">https://doi.org/10.3390/plants10030490</a>	WoS (2) Scopus (4)	<a href="http://fpv.ucm.sk/sk/pracovnici-bt.html">http://fpv.ucm.sk/sk/pracovnici-bt.html</a>	A+ (Q1)

		Culture. Plants-Basel, <b>2021</b> , 10, 3, no. 490, 1-14.				
		<b>ADC</b> Kaňuková, Š., Mrkvová, M., Mihálik, D., <b>Kraic, J.</b> : Procedures for DNA Extraction from Opium Poppy ( <i>Papaver somniferum</i> L.) and Poppy Seed-Containing Products. <i>Foods</i> , <b>2020</b> , 9, 10, 1-15.	<a href="https://doi.org/10.3390/foods9101429">https://doi.org/10.3390/foods9101429</a>	WoS (1) Scopus (1)	<a href="http://fpv.ucm.sk/sk/pracovnici-bt.html">http://fpv.ucm.sk/sk/pracovnici-bt.html</a>	A (Q2)
	For the whole period	<b>ADC</b> Ondreičková, K.; Gubišová, M.; Piliarová, M.; Horník, M.; Matušinský, P.; Gubiš, J.; Klčová, L.; Hudcovicová, M.; <b>Kraic, J.</b> Responses of Rhizosphere Fungal Communities to the Sewage Sludge Application into the Soil. <i>Microorganisms</i> <b>2019</b> , 7, 505.	<a href="https://doi.org/10.3390/microorg7110505">https://doi.org/10.3390/microorg7110505</a>	WoS (5) Scopus (6)	<a href="http://fpv.ucm.sk/sk/pracovnici-bt.html">http://fpv.ucm.sk/sk/pracovnici-bt.html</a>	A (Q2)
		<b>ADC Kraic, J.</b> , Mihálik, D., Klčová, L., Gubišová, M., Klempová, T., Hudcovicová, M. a kol. Progress in the genetic engineering of cereals to produce essential polyunsaturated fatty acids. <i>Journal of Biotechnology</i> , Volume 284, <b>2018</b> , Pages 115-122, ISSN 0168-1656.	<a href="https://doi.org/10.1016/j.jbiotec.2018.08.009">https://doi.org/10.1016/j.jbiotec.2018.08.009</a>	WoS (12) Scopus (13)	<a href="http://fpv.ucm.sk/sk/pracovnici-bt.html">http://fpv.ucm.sk/sk/pracovnici-bt.html</a>	A (Q2)
		<b>ADC</b> Gubišová, M., Gubiš, J., Žofajová, A., Mihálik, D., <b>Kraic, J.</b> : Enhanced in vitro propagation of <i>Miscanthus × giganteus</i> , <i>Industrial Crops and Products</i> , Volume 41, <b>2013</b> , 279-282.	<a href="https://doi.org/10.1016/j.indcrop.2012.05.004">https://doi.org/10.1016/j.indcrop.2012.05.004</a>	WoS (15) Scopus (19)	<a href="http://fpv.ucm.sk/sk/pracovnici-bt.html">http://fpv.ucm.sk/sk/pracovnici-bt.html</a>	A+ (Q1)
2.	For the last 6 years	<b>ADC</b> Vesteg, M., Hadariová, L., Horváth, A., Carlos, E., Schwartzbach, S.D., <b>Krajčovič, J.</b> : Comparative molecular cell biology of phototrophic euglenids and parasitic trypanosomatids sheds light on the ancestor of Euglenozoa. <i>Biological reviews</i> , <b>2019</b> , 94, 5, 1701-1721.	<a href="https://doi.org/10.1111/brv.12523">https://doi.org/10.1111/brv.12523</a>	WoS (7) Scopus (7)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A+ (Q1)
		<b>ADC</b> Zahonová, K., Füßy, Z., Birčák, E., Novák Vanclová, A.M.G., Klimeš, V., Vestef, M., <b>Krajčovič J.</b> , Oborník, M., Eliáš, M.: Peculiar features of the plastids of the colourless alga <i>Euglena longa</i> and photosynthetic euglenophytes unveiled by transcriptome analyses. <i>Scientific Reports</i> , <b>2018</b> , 8, no. 17012 ([1-15]).	<a href="https://doi.org/10.1038/s41598-018-35389-1">https://doi.org/10.1038/s41598-018-35389-1</a>	WoS (16) Scopus (20)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A+ (Q1)
	For the whole period	<b>ADC</b> Hadariová, L., Vesteg, M., Hampl, V., <b>Krajčovič, J.</b> : Reductive evolution of chloroplasts in non-photosynthetic plants, algae and protists. <i>Current Genetics</i> , <b>2018</b> , 64, 2, 365-387.	<a href="https://doi.org/10.1007/s00294-017-0761-0">https://doi.org/10.1007/s00294-017-0761-0</a>	WoS (30) Scopus (30)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A (Q2)
		<b>ADC</b> Hadariová, L., Vesteg, M., Birčák, E., Schwartzbach, S.D., <b>Krajčovič, J.</b> : An intact plastid genome is essential for the survival of colorless <i>Euglena longa</i> but not <i>Euglena gracilis</i> . <i>Current Genetics</i> . <b>2017</b> , Vol. 63, No. 2, s. 331-341.	<a href="https://doi.org/10.1007/s00294-016-0641-z">https://doi.org/10.1007/s00294-016-0641-z</a>	WoS (3) Scopus (4)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A (Q2)



		<b>ADC Krajčovič, J.</b> , Vesteg, M., Schwartzbach, S.D.: Euglenoid flagellates: A multifaceted biotechnology platform. <i>Journal of Biotechnology</i> . <b>2015</b> , Vol. 202, s. 135-145.	<a href="https://doi.org/10.1016/j.jbiotec.2014.11.035">https://doi.org/10.1016/j.jbiotec.2014.11.035</a>	WoS (36) Scopus (40)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A (Q2)
3.	For the last 6 years	<b>ADC Janeček, Š.</b> , Mareček, F., MacGregor, E. A., Svensson, B.: Starch-binding domains as CBM families-history, occurrence, structure, function and evolution. <i>Biotechnology Advances</i> , <b>2019</b> , 37, 8, no. 107451.	<a href="https://doi.org/10.1016/j.biotecha.2019.107451">https://doi.org/10.1016/j.biotecha.2019.107451</a>	WoS (35) Scopus (37)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A+ (Q1)
		<b>ADC Janeček, Š.</b> , Majzlová, K., Svensson, B., MacGregor E. A., The starch-binding domain family CBM41An in silico analysis of evolutionary relationships. <i>Proteins, structure, function, and bioinformatics</i> . Vol. 85, iss. 8, <b>2017</b> , pp. 1480-1492.	<a href="https://doi.org/10.1002/prot.25309">https://doi.org/10.1002/prot.25309</a>	WoS (10) Scopus (10)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A- (Q3)
	For the whole period	<b>ADC Janeček Š.</b> , Gabriško M.: Remarkable evolutionary relatedness among the enzymes and proteins from the alpha-amylase family. <i>Cellular and molecular life sciences</i> . - ISSN 1420-682X. - Vol. 73, Issue 14 ( <b>2016</b> ), pp. 2707-2725.	<a href="https://doi.org/10.1007/s00018-016-2246-6">https://doi.org/10.1007/s00018-016-2246-6</a>	WoS (40) Scopus (44)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A+ (Q1)
		<b>ADC MacGregor E.A., Janecek S</b> , Svensson B. Relationship of sequence and structure to specificity in the alpha-amylase family of enzymes. <i>Biochim Biophys Acta</i> . <b>2001</b> , 1546(1):1-20.	<a href="https://doi.org/10.1016/s0167-4838(00)00302-2">https://doi.org/10.1016/s0167-4838(00)00302-2</a>	WoS (466) Scopus (510)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A (Q2)
		<b>ADC Janecek S.</b> , Svensson B., Henrissat B. Domain evolution in the alpha-amylase family. <i>J Mol Evol</i> . <b>1997</b> Sep;45(3):322-31.	<a href="https://doi.org/10.1007/pl00006236">https://doi.org/10.1007/pl00006236</a>	WoS (123) Scopus (139)	<a href="http://fpv.ucm.sk/sk/pracovnici-bio.html">http://fpv.ucm.sk/sk/pracovnici-bio.html</a>	A+ (Q1)
4.	For the last 6 years	<b>ADC Adamec, L., Matušíková, I.</b> , Pavlovič, A.: Recent ecophysiological, biochemical and evolutionary insights into plant Carnivory. <i>Annals of Botany</i> , <b>2021</b> , 128, 3, 241-259.	<a href="https://doi.org/10.1093/aob/mcab071">https://doi.org/10.1093/aob/mcab071</a>	WoS (1) Scopus (3)	<a href="http://fpv.ucm.sk/sk/pracovniker.html">http://fpv.ucm.sk/sk/pracovniker.html</a>	A+ (Q1)
		<b>ADC Maglovski, M., Gerši, Z.</b> ; Rybanský, L.; Bardáčová, M., Moravčíková, J., Bajdoš, M., Dobrikova, A.; Apostolova, E., Kraic, J., Blehová, A., <b>Matušíková, I.</b> Effects of Nutrition on Wheat Photosynthetic Pigment Responses to Arsenic Stress. <i>Polish Journal of Environmental Studies</i> , 28, 3, <b>2019</b> , 1821-1829.	<a href="https://doi.org/10.15244/pjoes/89584">https://doi.org/10.15244/pjoes/89584</a>	WoS (9) Scopus (11)	<a href="http://fpv.ucm.sk/sk/pracovniker.html">http://fpv.ucm.sk/sk/pracovniker.html</a>	A- (Q4)
	For the whole period	<b>ADC Machalko, J., Renner, T.</b> , Mészáros P., Socha P., Moravčíková J., Blehová A., Libantová J., Polóniová Z., <b>Matušíková I.</b> : Molecular characterization and evolution of carnivorous sundew ( <i>Drosera rotundifolia</i> L.) class V beta-1,3-glucanase. <i>Planta</i> . 245, No. 1, <b>2017</b> , 77-91.	<a href="https://doi.org/10.1007/s00425-016-2592-5">https://doi.org/10.1007/s00425-016-2592-5</a>	WoS (4) Scopus (4)	<a href="http://fpv.ucm.sk/sk/pracovniker.html">http://fpv.ucm.sk/sk/pracovniker.html</a>	A+ (Q1)



		<p><b>ADC</b> Gregorová Z., Kováčik J., Klejdus B., Maglovski M., Kuna R., Hauptvogel P., <b>Matušiková I.</b> Drought-induced responses of physiology, metabolites, and PR proteins in <i>Triticum aestivum</i>. <i>Journal of agricultural and food chemistry : a publication of the American Chemical Society.</i> 63, 37, <b>2015</b>, s. 8125-8133.</p>	<p><a href="https://doi.org/10.1021/acs.jafc.5b0295">https://doi.org/10.1021/acs.jafc.5b0295</a></p>	<p>WoS (30) Scopus (31)</p>	<p><a href="http://fpv.ucm.sk/sk/pracovniciker.html">http://fpv.ucm.sk/sk/pracovniciker.html</a></p>	<p>A+ (Q1)</p>
		<p><b>ADC</b> Milčevičová, R. . et al. <b>Matušiková, I.</b>, Fluch, S., Wilhem, E.: <i>Erwinia amylovora</i>-induced defense mechanisms of two apple species that differ in susceptibility to fire blight. <i>Plant science : an international journal of experimental plant biology.</i> 179, 1-2, <b>2010</b>, 60-67.</p>	<p><a href="https://doi.org/10.1016/j.plantsci.2010.04.013">https://doi.org/10.1016/j.plantsci.2010.04.013</a></p>	<p>WoS (28) Scopus (29)</p>	<p><a href="http://fpv.ucm.sk/sk/pracovniciker.html">http://fpv.ucm.sk/sk/pracovniciker.html</a></p>	<p>A+ (Q1)</p>
5.	For the last 6 years	<p><b>ADC</b> Hančinský, R., <b>Mihálik, D.</b>, Mrkvová, M., Candresse, T., Glasa, M.: Plant Viruses Infecting Solanaceae Family Members in the Cultivated and Wild Environments: A Review. <i>Plants</i>, <b>2020</b>, 9(5), 667.</p>	<p><a href="https://doi.org/10.3390/plants9050667">https://doi.org/10.3390/plants9050667</a></p>	<p>WoS (16) Scopus (18)</p>	<p><a href="http://fpv.ucm.sk/sk/pracovnicibt.html">http://fpv.ucm.sk/sk/pracovnicibt.html</a></p>	<p>A+ (Q1)</p>
		<p><b>ADC</b> Glasa, M., Hančinský, R., Šoltýs, K., Predajňa, L., Tomašechová, J., Hauptvogel, P., Mrkvová, M., <b>Mihálik, D.</b>, Kraic, J.: Molecular characterization of potato virus Y (PVY) using high-throughput sequencing constraints on full genome reconstructions imposed by mixed infection involving recombinant PVY strains. <i>Plants-Basel</i>, <b>2021</b>, 10, 4, 753.</p>	<p><a href="https://doi.org/10.3390/plants10040753">https://doi.org/10.3390/plants10040753</a></p>	<p>WoS (2) Scopus (2)</p>	<p><a href="http://fpv.ucm.sk/sk/pracovnicibt.html">http://fpv.ucm.sk/sk/pracovnicibt.html</a></p>	<p>A+ (Q1)</p>
	For the whole period	<p><b>ADC</b> <b>Mihálik, D.</b>, Klčová, L., Ondreičková, K., Hudcovicová, M., Gubišová, M., Klemková, T., Čertík, M., Pauk, J., Kraic, J.: Biosynthesis of Essential Polyunsaturated Fatty Acids in Wheat Triggered by Expression of Artificial Gene. <i>Int. J. Mol. Sci.</i> <b>2015</b>, 16(12), 30046-30060.</p>	<p><a href="https://doi.org/10.3390/ijms161226137">https://doi.org/10.3390/ijms161226137</a></p>	<p>WoS (5) Scopus (6)</p>	<p><a href="http://fpv.ucm.sk/sk/pracovnicibt.html">http://fpv.ucm.sk/sk/pracovnicibt.html</a></p>	<p>A (Q2)</p>
		<p><b>ADC</b> Schaefer, L., Babelova, A. et al., <b>Mihalik, D.</b>, Goote, M., Malle, E., Schaefer, M.R., Gröne, H.-J.: The matrix component biglycan is proinflammatory and signals through Toll-like receptors 4 and 2 in macrophages. <i>J Clin Invest.</i> <b>2005</b>, 115 (8), 2223-2233.</p>	<p><a href="https://doi.org/10.1172/JCI23755">https://doi.org/10.1172/JCI23755</a></p>	<p>WoS (585) Scopus (618)</p>	<p><a href="http://fpv.ucm.sk/sk/pracovnicibt.html">http://fpv.ucm.sk/sk/pracovnicibt.html</a></p>	<p>A+ (Q1)</p>
		<p><b>ADC</b> Beck, K.-F., Güder, G., Schaefer, L., Pleskova, M., Babelova, A., Behrens, M.H., <b>Mihalik, D.</b>, Beck, M., Schaefer, R.M., Pfeilschifter, J.: Nitric Oxide Upregulates Induction of PDGF Receptor-<math>\alpha</math> Expression in Rat Renal Mesangial Cells and in Anti-Thy-1 Glomerulonephritis. <i>Jornal of American Society of Nefrology</i>, <b>2005</b>, 16 (7) 1948-1957.</p>	<p><a href="https://doi.org/10.1681/ASN.2004080638">https://doi.org/10.1681/ASN.2004080638</a></p>	<p>WoS (12) Scopus (11)</p>	<p><a href="http://fpv.ucm.sk/sk/pracovnicibt.html">http://fpv.ucm.sk/sk/pracovnicibt.html</a></p>	<p>A+ (Q1)</p>

The overall quality level of creative activity according to outputs	<b>A+</b> <b>(4.52)</b>				
*Without autocitations					
Quartiles of journals were assessed for 2020 according to Journal Citation Reports ( <a href="https://jcr.clarivate.com/jcr/browse-journals">https://jcr.clarivate.com/jcr/browse-journals</a> ).					
	A+	A	A-	B	C
Category by JCR Category	Q1	Q2	Q3, Q4		
Summary by category	15	8	2	0	0
% share	60	32	8		
Weight	5	4	3	2	1
Product of % share and weight	300	128	24		
Resulting score	<b>4.52</b>				

## 5. The level of UCM criteria for reviewing the compliance of conditions for obtaining the title

- a) The criteria for evaluating the fulfilment of the conditions for obtaining the scientific-pedagogical or artistic-pedagogical title of “associate professor” and “professor” at the University of Ss. Cyril and Methodius in Trnava are available at:

Available at: [https://www.ucm.sk/docs/legislativa/2021/Kriteria\\_na\\_vyhodnotenie\\_doc\\_prof\\_01052021.pdf](https://www.ucm.sk/docs/legislativa/2021/Kriteria_na_vyhodnotenie_doc_prof_01052021.pdf)

- b) The criteria for evaluating the fulfilment of the conditions for obtaining the scientific-pedagogical or artistic-pedagogical title of “associate professor” and “professor” within the specifics and habits of individual fields of study to which the field of habilitation and inauguration proceedings is assigned are available at:

Available at: <http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html>

## 6. Rules and procedures of the habilitation and inauguration proceedings

- a) Rules of habilitation and inauguration proceedings at the University of Ss. Cyril and Methodius in Trnava are available at:

Available at: [https://www.ucm.sk/docs/legislativa/2021/Zasady\\_HKaVK\\_01052021.pdf](https://www.ucm.sk/docs/legislativa/2021/Zasady_HKaVK_01052021.pdf)

- b) Procedures of habilitation and inauguration proceedings at the University of Ss. Cyril and Methodius in Trnava are available at:

Available at: [https://intranet.ucm.sk/docs2/predpisy/ostatne/Postup\\_pri\\_habilitacnom\\_konani\\_na\\_UCM.pdf](https://intranet.ucm.sk/docs2/predpisy/ostatne/Postup_pri_habilitacnom_konani_na_UCM.pdf)

Available at: [https://intranet.ucm.sk/docs2/predpisy/ostatne/Postup\\_pri\\_inauguracnom\\_konani\\_na\\_UCM.pdf](https://intranet.ucm.sk/docs2/predpisy/ostatne/Postup_pri_inauguracnom_konani_na_UCM.pdf)

## 7. Completed habilitation and inauguration proceedings and their results

Completed habilitation and inauguration proceedings at the University of Ss. Cyril and Methodius in Trnava, their course and results are available at:

<https://www.ucm.sk/sk/habilitacne-a-inauguracne-konania/>

and at:

<http://fpv.ucm.sk/sk/o-nas/habilitacie-a-inauguracie.html>

## 8. Ongoing habilitation and inaugural proceedings

Ongoing habilitation and inaugural proceedings at the University of Ss. Cyril and Methodius in Trnava are available at:

<https://www.ucm.sk/sk/habilitacne-a-inauguracne-konania/>

and at:

<http://fpv.ucm.sk/sk/veda-a-vyskum.html>