

COMPREHENSIVE INFORMATION ON THE APPLICANT'S SCHOLARLY AND PEDAGOGICAL WORKS, CITATIONS AND ADDITIONAL RESPONSES

in accordance with section 5, subsection 2, letter g and section 13, subsection 2, letter h of the MU directive on Habilitation Procedures and Professor Appointment Procedures

Each work, citation or additional response may be listed no more than once¹.

A. Scholarly and artistic works

Scholarly and artistic works by the applicant – listed in Annex No. 5

Result type		Number
Original research article	Article published in a scholarly journal listed in the WoS database	16
	Article published in a scholarly journal listed in the Scopus database	24
	Article published in another peer-reviewed journal	5
Scholarly book publication		
Chapters in a scholarly book publication		
Article in proceedings		1
Patent	European patent, US patent or Japanese patent	
	Czech or national patent used on the basis of a valid license	
	Other patents	
Pilot plant, verified technology, variety, breed		
Results with legal protection (utility model, industrial design)		
Technically realized results (prototype, functional sample)		
Results utilized in legislative, non-legislative or strategic documents		
Certified methodologies, specialized maps, medical, conservation methods		
Software		
Editorship of a scholarly book publication, thematic proceedings or single-topic scholarly journal		
Original works of art		
Artistic presentation		
Other works considered important by the applicant		1

Three scholarly or artistic works considered most significant by the applicant (including a brief substantiation²)

1. **[JABANDZIEV, Petr*(corresponding author)***, Tereza PINKASOVA, Lumir KUNOVSKY, Jan PAPEZ, Martin JOUZA, Bara KARLINOVA, Martina NOVACKOVA, Milan URIK, Stefania AULICKA, Ondrej SLABY, Julia BOHOSOVA, Katerina BAJEROVA, Milan BAJER a Ajay GOEL. Regional Incidence of

¹ The number of results, citations and additional responses listed in this annex must correspond to numbers listed in annexes 4, 5 and 6.

² Expert substantiation of the significance of a publication (i.e. not merely information on its inclusion in a database, etc.).

Inflammatory Bowel Disease in a Czech Pediatric Population: 16 Years of Experience (2002-2017). Journal of Pediatric Gastroenterology and Nutrition [online]. 2020, 70(5), 586–592. ISSN 0277-2116. Dostupné z: doi:10.1097/MPG.0000000000002660]

Substantiation: We have had relatively limited data on the incidence of inflammatory bowel disease (IBD) in Czech children. Our research described an increase in IBD incidence, mainly because of a rise in the incidence of Crohn's disease, between 2002 and 2017 in a population of Czech children. Incidence rates of pediatric IBD and its subtypes in the Czech Republic are among the highest in the literature.

2. [JABANDZIEV, Petr, Julia BOHOSOVA, Tereza PINKASOVA, Lumir KUNOVSKY, Ondrej SLABY a Ajay GOEL. The Emerging Role of Noncoding RNAs in Pediatric Inflammatory Bowel Disease. Inflammatory Bowel Diseases [online]. 2020, 26(7), 985–993. ISSN 1078-0998. Dostupné z: doi:10.1093/ibd/izaa009]

Substantiation: In this article, we provided an overview of current knowledge on non-coding RNAs, their altered expression profiles in pediatric IBD patients, and how these are emerging as potentially valuable clinical biomarkers. This work has provided a theoretical basis for further research in this field.

3. [JABANDZIEV, Petr, Tatsuhiko KAKISAKA, Julia BOHOSOVA, Tereza PINKASOVA, Lumir KUNOVSKY, Ondrej SLABY a Ajay GOEL. MicroRNAs in Colon Tissue of Pediatric Ulcerative Pancolitis Patients Allow Detection and Prognostic Stratification. Journal of Clinical Medicine [online]. 2021, 10(6), 1325. Dostupné z: doi:10.3390/jcm10061325]

Substantiation: To the best of our knowledge, we have evaluated for the first time in a Central European representative population of children with ulcerative pancolitis expression of selected miRNAs in colonic mucosa and their association with key clinical questions (precise disease identification, severity of condition, prediction for standard treatment).

B. Pedagogical works

Pedagogical works by the applicant – listed in Annex No. 4

Result type	Number
Textbooks	
Textbook texts, teaching aids (including textbook sub-chapters)	8
Popular science texts and activities	
Compilations and educational texts and presentations	

Three pedagogical works considered most significant by the applicant³ (including a brief substantiation⁴)

1. [JABANDŽIEV, Petr. Poruchy vědomí z pohledu pediatra - diagnostika, diferenciální diagnostika, terapie. AULICKÁ, Štefania. Akutní stavy v dětské neurologii. Olomouc: Solen, 2019, s. 23-44. Meduca. ISBN 978-80-7471-263-0.]

Substantiation: This work describes a practical approach to a pediatric patient with an altered level of consciousness from a pediatrician's perspective. The care of such patients is challenging worldwide. The text may be helpful for both pregraduate and postgraduate students.

2. [JABANDŽIEV, Petr. Výživa u dětí se zánětlivým onemocněním střev. Výživa dětí [online]. Editoři Dagmar PROCHÁZKOVÁ a Zlata KAPOUNOVÁ. Brno: Masarykova univerzita, 2021, s. 197-201. ISBN 978-80-210-9846-6. Dostupné z: <https://portal.med.muni.cz/clanek-726-vyziva-deti.html>]

³ In the case of habilitation procedures, applicants may list three works they consider most significant especially in the case of fields where pedagogical publications are key (especially pedagogical fields). In the case of professor appointment procedures, applicants must always list three works they consider most significant.

⁴ Expert substantiation of the significance of the publication.

Substantiation: Diet is considered one of the critical environmental influences that potentially affect the development of IBD. This work summarizes key findings in this field.

3. [SCHNEIDEROVÁ, Helena a Petr JABANDŽIEV. Neurologické projevy u vrozených poruch imunity. OŠLEJŠKOVÁ, Hana. Aktuální kapitoly z dětské neurologie pro praxi. Olomouc: Solen, 2018, s. 121-134. Meduca. ISBN 978-80-7471-240-1.]

Substantiation: Inborn errors of immunity represent a very heterogeneous group of diseases that any first-line pediatrician may come into contact with. This paper summarizes key findings in this area relevant to practice, with an emphasis on the neurological manifestations of these diseases.

C. Citations and additional responses

Citations responses to scholarly and artistic works – citations listed in Annex No. 6

Citations of scholarly or artistic works	Number
Citations – international databases	52
Citations – other	
Share of self-citations in %	

Citations of pedagogical works – citations listed in Annex No. 6

Citations of pedagogical works	Number
Citations – international databases	
Citations – other	

Additional responses to scientific, professional, artistic and pedagogical works by the applicant – citations listed in Annex No. 6

Number of additional responses	
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Three citations considered most significant by the applicant (including a brief substantiation⁵)

[JABANDŽIEV, Petr, Michal SMEREK, Jaroslav MICHÁLEK, Michal FEDORA, Lucie KOSINOVÁ, Jaroslav A. HUBACEK a Jaroslav MICHÁLEK. Multiple gene-to-gene interactions in children with sepsis: a combination of five gene variants predicts outcome of life-threatening sepsis. *Critical Care* [online]. 2014, 18(1), R1. ISSN 1466-609X. Dostupné z: doi:10.1186/cc13174]

1. [GOURD, Nicholas M. a Nikitas NIKITAS. Multiple Organ Dysfunction Syndrome. *Journal of Intensive Care Medicine* [online]. 2020, 35(12), 1564–1575. ISSN 0885-0666. Dostupné z: doi:10.1177/0885066619871452]

Substantiation: Sepsis remains among the major causes of morbidity and mortality worldwide. We have evaluated for the first time in a Central European population of critically ill children the influence of genetic polymorphism interactions of five genes related to immune response. The results demonstrated that the

⁵ Expert substantiation of the significance of a cited publication (i.e. not merely information on its inclusion in a database, etc.).

specific combinations of genetic polymorphisms seem to be associated with sepsis development. Moreover, stratification into high-, intermediate- and low-risk groups of paediatric patients can predict the severity of sepsis. High-risk patients could benefit from being so identified through early introduction of specific preventive or therapeutic interventions. Results of our work could lead to better care for these patients.

[POREDSKA, Karolina, Lumir KUNOVSKY, Filip MAREK, Zdenek KALA, Vladimir PROCHAZKA, Jiri DOLINA, Vladimir ZBORIL, Petra KOVALCIKOVA, Tomas PAVLIK, **Petr JABANDZIEV**, Zdenek PAVLOVSKY, Jakub VLAZNY a Ladislav MITAS. The Influence of Microscopic Inflammation at Resection Margins on Early Postoperative Endoscopic Recurrence After Ileocaecal Resection for Crohn's Disease. Journal of Crohns & Colitis [online]. 2020, 14(3), 361–368. ISSN 1873-9946. Dostupné z: doi:10.1093/ecco-jcc/jjz153]

2. [TANDON, P., G. MALHI, D. ABDALI, E. POGUE, J.K. MARSHALL, A. DE BUCK VAN OVERSTRAETEN, R. RIDDELL a N. NARULA. Active Margins, Plexitis, and Granulomas Increase Postoperative Crohn's Recurrence: Systematic Review and Meta-analysis. Clinical Gastroenterology and Hepatology [online]. 2021, 19(3), 451–462. Dostupné z: doi:10.1016/j.cgh.2020.08.014]

Substantiation: The aim of the study was to determine whether the histological activity of Crohn's disease (CD) in resection margins after ileocecal resection is associated with early endoscopic recurrence of the disease. It was shown that microscopic evidence of CD in the resection line was significantly associated with a higher risk of early postoperative endoscopic recurrence. This finding could lead to more effective care for these patients.

[DITE, Petr, Martin BLAHO, Martina BOJKOVA, **Petr JABANDZIEV** a Lumir KUNOVSKY. Nonalcoholic Fatty Pancreas Disease: Clinical Consequences. Digestive Diseases [online]. 2020, 38(2), 143–149. ISSN 0257-2753. Dostupné z: doi:10.1159/000505366]

3. [PIETROBON, Carla Bruna, Patricia Cristina LISBOA, Iala Milene BERTASSO, Thamara Cherem PEIXOTO, Patricia Novaes SOARES, Elaine DE OLIVEIRA, Kissila RABELO, Jorge Jose DE CARVALHO, Alex Christian MANHAES a Egberto Gaspar DE MOURA. Pancreatic steatosis in adult rats induced by nicotine exposure during breastfeeding. Endocrine [online]. 2021, 72(1), 104–115. ISSN 1355-008X. Dostupné z: doi:10.1007/s12020-020-02579-9]

Substantiation: Metabolic syndrome and its components such as obesity, hypertriglyceridemia, type-2 diabetes mellitus, and arterial hypertension are unequivocally serious problems. This fact is not only a concern for the adult population but for children as well. Metabolic syndrome significantly concerns also field of gastroenterology where it is classified as nonalcoholic fatty pancreas disease (NAFPD). NAFPD is a serious state which can be treatable. This article gives an overview about NAFPD and important clinical consequences.

Additional comments on publication activities⁶:

Date: 12. 7. 2021

Signature: Petr Jabandžiev

⁶ Facultative text.