

Vol. 1 · Issue 1 · 2021

Professional and scientific periodical  
of the Ministry of Interior of Hungary



# BULLETIN

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## PREFACE

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**Dear Reader,**

*'Strive not to be a success, but rather to be of value.'*

Albert Einstein

It is a fantastic thing that science is limitless and with today's IT capabilities, thanks to the digital world, this infinity is becoming even more perceptible. For the first time, we are publishing a newsletter in English, which content is now available all over the world. As in our Hungarian-language publication, in our current English newsletter, we also tried to provide our readers with a high-quality, selected content. In our editorial news, we present the development goals and guidelines of *Belügyi Szemle* in 2021, focusing on the international scene. In the newsletter, the interested ones can read about the articles published in the 2020/3. English-language special issue of *Belügyi Szemle* and about the research planned for the 2021/1. special issue. We provide a short summary of current events in the international scientific life, as well as review domestic and international books and journals in various fields of science. Science is not only unlimited, but also is an inexhaustible field. The results of research in various fields and disciplines have always served and continue to serve practical life, and as life is constantly changing and moving, more and more new phenomena, tasks to be solved and obstacles to be removed come into the perspective of scientists and specialists. Thanks to this, we can be confident that in the future we will be able to fill countless newsletters in English with more and more interesting information, supplemented by actuality, with the international professional reports of *Belügyi Szemle*.

We hope that our first English newsletter of 2021 will be liked by all. We tried to compile a variety of content, to gather colourful information in several scientific and professional fields, to which we wish you a lot of fun to read.

***Editorship***

### Development goals of *Belügyi Szemle* 2021

Summarizing the year 2020, we can say that we tried to prepare up all professional, media technology and IT developments. We are proud that in addition to the monthly issues, our newsletter also regularly reached those interested and we also published four special issues. We launched our website in Hungarian and English, which, seeing the experience of the first year, has become a constant player in the online professional and scientific platform, and whose popularity is constantly growing day by day. The appearance in the online space has led to an increase in the number of subscribers to our print journal, as well as a large increase in the number of incoming scientific articles. We gradually switched to using the OJS (Open Journal Systems, journal management and editing system). ProQuest, a Michigan indexing organization with one of the largest multidisciplinary databases, began indexing *Belügyi Szemle* in October 2020. Encouraged by all this, we planned further developments for the new year. This year, we plan to publish six special issues online in Hungarian and English, and in addition to our Hungarian newsletter, we are also preparing an English bulletin every two months. From the 2021/1. publication, regarding the online PDF version of the print issues, we provide immediate open access in the archive of our OJS system within the framework of the Open Access system. Due to the increased number of articles, we are expanding the volume of our print pages, and in the future to make the published studies searchable, we will include the accurate reference data in English and Hungarian at the end of them. In order to strengthen further our international presence, we plan to establish professional cooperation first with DOAJ, EBSCO, CABELLS, COPE, DRYAD, then with SCOPUS and Web of Science international indexing organizations. We have already started uploading the archives of *Belügyi Szemle* - into the MTMT and OJS systems- up to the issue 2015/1., which we aim to finish this year.

As stated before we provide immediate open access in the archives of our OJS system of the PDF online version of the print issues. In this way, we also meet a number of international expectations, but it cannot be neglected either, that the above-mentioned procedure will make the valuable publications published in *Belügyi Szemle* more widely available, directly and without losing their relevance. It praises the work of recent years, that the number of studies

coming to our editorship is growing, and we hope that publishing in *Belügyi Szemle* will have an increasing significance in the palette of both Hungarian and international scientific life. With this in mind, we have also planned larger publications for the new year. Our appearance in the online space is also accompanied by an unbroken popularity. The number of visitors to our website has now exceeded 400,000. Summing up the experience of the past year, we are implementing new technical developments in order to make it as user-friendly as possible. In terms of content, we will do our best to preserve and strengthen further our role in information fusion.

### **Mendeley consultant from the team of *Belügyi Szemle***

Csaba Szabó, PhD, managing editor of *Belügyi Szemle*, joined Mendeley's global group of experts. Mendeley consultants share their professional and scientific experiences with their colleagues and interested parties through workshops, sessions, webinars, and conferences.

#### *Mendeley's support for consultants:*

- **Event Support:** Mendeley - Elsevier provides consultants with support for training events they organize, including the necessary study materials, Mendeley donations, and gifts.
- **Consultant Newsletters and Webinars:** Special newsletters and periodic Mendeley Advisor Briefing webinars support counsellors' work to keep them up to date on Mendeley's professional work, so they can provide feedback on whether they are moving in the right direction.
- **Network Expansion:** Advisors are invited to join the Mendeley Advisor discussion group on LinkedIn, which was created exclusively for Mendeley Advisors. Through the platform, they can exchange ideas, present a recent event, and share feedback with members of the Mendeley Advisor team.

For more information, visit: [www.mendeley.com/advisor-community](http://www.mendeley.com/advisor-community)

Andrea Tünde Barabás – Judit Szabó authors conducted research entitled *'Theoretical analyses of criminal cases initiated due to offences of illegal use of human body'*. The aim of the research is to address the issue of illegal use of the human body, and to identify and analyse the characteristics of criminal proceedings related to other criminal offenses that facilitate them. In addition, the authors tried to explore the potential law enforcement problems of the facts, as well as other anomalies, and also to present the domestic situation of the topic. Accordingly, the subject of the research project focused on the framework of crimes related to the illegal use of the human body, their main international and domestic aspects, the characteristics of criminal proceedings initiated based on such cases and the related law enforcement difficulties. As reported by the results of their research, only clear, consistent, and unified professional legislation and appropriate professional knowledge can support it and can provide real protection in relation to proceedings initiated for the illegal use of the human body. Although the current Hungarian situation does not seem worrying, some anomalies in the legislative background have become apparent in the light of the results. The published study contains and summarizes the most important findings of the research project.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4850/3802](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4850/3802)

**Gergely Gárdonyi** author explains in his study entitled *'Still Image Face Recognition in Hungary'* that the Still Image Face Recognition System has been operating in Hungary for four years. The present study details the experiences gained to date, as well as the possibilities, results and plans related to the subject. It briefly presents the history of still image face recognition, provides international outlook, describes the legal framework and the operation of the system, and finally outlines future development opportunities.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4851/3803](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4851/3803)

**Éva Kovács-Széles, István Almási, Ákos Balaskó, Csaba Bíró, Károly Bodor, Csilla Csöme, Izabella Kakuja, Zsuzsanna Kreitz, Kornél Papp, Csaba Tóbi, József Volarics** authors in their research *'How to respond a crime scene contaminated with radioactive material?'* explain that radioactive materials have become an explicit target for criminal and terrorist organizations in recent years, as they can be effective tools for panic and serious economic damage generation when used in a variety of weapons (e.g. explosive devices capable of

dispersing radioactive material). In addition, radioactive material has been used in several cases to commit crimes such as poisoning or radiation exposure to potential target persons. In addition to international cases, radioactive materials are sometimes found in Hungary during house searches. The discovery of such materials can also be a serious problem in the absence of a suitable measuring device. Their exact identification, collection and specific examination requires specialized expertise. If the crime scene personnel do not detect the presence of radioactivity at the scene in a timely manner (e.g. because it cannot be detected without measuring equipment), the persons working there may subsequently suffer serious damage to health, as well as large areas and objects can be contaminated by dispersed radioactive material. It can also cause serious economic damage. This article describes an operating procedure for the professional response of crime scenes contaminated with radioactive material, developed by experts of the Hungarian National Police, National Bureau of Investigation, Criminal Forensics Department, and radiologists at the Centre for Energy Research in the frame of a project supported by the Home Affairs Security Fund.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4852/3804](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4852/3804)

**Bence Lakatos – Gyula Vass – László Teknős** authors of the *'Official Analysis of the Great Debrecen Fires of 1802 and 1811'* define that the present-day cityscape of the city of Debrecen has been greatly influenced by the fires that have occurred throughout its history. Of these, they are presenting the two most serious cases, the fire of 1802 and the fire of 1811. Regarding fires, the authors summarize the damage in their research by processing contemporary sources.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4853/3805](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4853/3805)

**Ferenc Molnár** author writes in his study *'Security of Energy Supply in the Knowledge of Expected Production and Consumption Trends'* that the presence of energy, its ever-expanding use and forms, and the ever-increasing demand for energy have accompanied history of mankind. For the man of the present-day energy is present in so many forms of appearance and use that listing it would be exhaustive. The use of energy is decisive in every segment of modern human life. Without exaggeration, it can be stated that the conditions of the urbanized man living today would basically change without energy. Without electricity, nothing would work, such as control systems implemented by computing devices as well as the main and auxiliary equipment of basic power systems. Ventilation systems would not work. Traffic would stop and it would be total dark at night. There would be no heating and cooling systems

for the apartments. Industrial and agricultural production would stop. There would be no drinking water or food. Communication and security systems would not work. Lack of energy would lead to economic and social disaster. Today's global population of nearly 8 billion people is depleting the Earth's energy supply and destroying its natural environment at the cost of ruthless energy use. If the current energy use trend of civilization will not be moderated and modified, the conditions of humanity as a whole will be jeopardized, in the immediate future. In this case, we will eliminate the living conditions of future generations. It is a popular saying that the Earth is not ours, we have just borrowed it from our grandchildren. It is our responsibility to pass on a liveable world to posterity.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4854/3806](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4854/3806)

**Nikoletta Nagy-Tóth** in the study *'Thoughts about the current issues of sports policing'*, the author examines the causes of football hooliganism and the preliminaries, the tragic events and stadium disasters of the last few decades, which have drawn the attention of those involved in securing such events to the need to change current practices, and new legal standards would need to be established. The study presents the important statements of the Taylor report, which have been adopted in the practice of securing events in Hungary as well.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4855/3812](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4855/3812)

**Viktor Németh** author in his work *'The Evolution and Communicational Aspects of Mediation'* defines that mediation, as a form of alternative dispute resolution, has become part of the canonized legal system, it has come to life and has made its own path of development from the 1950s to the present. In this study, the process and the stages of it are discussed from communicational point of view through the terminology of the PTC. The sections also represent the types of mediation. Relationships and interactions between the types are also the subject of this study, as well as the scopes for certain types. The participatory theory of communication (PTC) allows us to review the development of mediation in the 20th and 21st centuries, from a facilitative mediation to a transformative mediation, according to a unified, transparent framework.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4856/3813](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4856/3813)

**József Pallo** in his research entitled *'The Effects of the Trianon Peace Treaty on the Development of Corrections in Hungary'* explains, that The Trianon Peace Treaty had a profound effect on the social and governmental structure of Hungary. These changes of course also influenced the field of corrections and

actually altered some of its key aspects as well. The author recalls several key penological concepts and ideas from the era to provide an introduction to the philosophical foundations of the establishment of correctional legislation and the resulting substantive changes that occurred. Moreover, a detailed analysis is provided on the system of enhanced severity workhouses, an emblematic punitive measure that addressed the unfavourable criminological tendencies of the 1920s, that emerged as consequences to the Trianon Peace Treaty. The essay concludes with deducing the generalized historical, legal and moral lessons and conclusions pertaining to this peculiar period of Hungary.

URL: [ojs.mtak.hu/index.php/belugyiszemle/article/view/4857/3810](https://ojs.mtak.hu/index.php/belugyiszemle/article/view/4857/3810)

**Petra Szalai** author of '*Security and Crisis Management, Components of Economic Crises*' research defines that, security is one of the key social needs. Everyone has right to a secure life. Nevertheless, in spite of technological achievements and results of the 21st century, worldwide problems could not be alleviated. It is the age of crises nowadays, with severe economic consequences. The author – due to the increasing role of economic security and using a modern interpretation of security – intends to present the basic characteristics of crises and crisis situations and the economic components of crises, in addition, too.

## PROFESSIONAL AND SCIENTIFIC LIFE NEWS

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### ***Short introduction to Scopus***

Scopus is the largest abstract and citation database of peer-reviewed literature, features smart tools to track, analyse and visualize research.

The Scopus logo is displayed in a large, orange, sans-serif font. The word "Scopus" is followed by a registered trademark symbol (®).

There is about 5000 of scientific publisher who feed their content into Scopus, general articles, conference proceedings and books.

The contents on Scopus are divided into four categories: physical sciences, life sciences, health sciences and social sciences. It is a great analytical tool and can also help to find collaboration. Scopus covers in total 40 languages but note that the abstracts are always in English.

Learn more on:

[www.elsevier.com/solutions/scopus?dgcid=RN\\_AGCM\\_Sourced\\_300005030](http://www.elsevier.com/solutions/scopus?dgcid=RN_AGCM_Sourced_300005030)

To know more about how to search on Scopus, check the video below:

[www.youtube.com/watch?v=-VE3ADZvoUY](https://www.youtube.com/watch?v=-VE3ADZvoUY)



## ***Have you heard about PLUMX METRICS?***

It can take at least 2-5 years from idea to a published peer-viewed journal article. Due to the pace of scholarly publishing, it takes another 3-5 years from the time the work is published to get to critical mass of citation counts. PlumX Metrics provide insights into the ways people interact with individual pieces of research output in the online environment. After PlumX you have immediately available metrics that can be an early indication of citation.



The metrics are categorized in five categories, which are the following:

- 1. Usage:** a way to signal if anyone is reading the articles or otherwise using the research. Usage is the number one statistic researchers want to know after citations. (clicks, downloads, views, library holdings, video plays)
- 2. Captures:** indicates that someone wants to come back to the work. Captures can be a leading indicator of future citations. (bookmarks, code forks, favorites, readers, watchers)
- 3. Mentions:** Measurement of activities such as new articles or blog posts about research. Is a way to tell that people are truly engaging with the research (blog posts, comments, reviews, Wikipedia links, media)
- 4. Social media:** Can help measure 'buzz' and attention. Can also be a good measure of how well a particular piece of research has been promoted and/or captures the imagination of non-researchers. (likes, shares, tweets)
- 5. Citations:** this category contains traditional citation such as Scopus, but also includes citations that help indicate societal impact such as Clinical or Policy Citations.

The company Plumanalytics is keen on gathering research metrics around all of types of research output that they call artifacts. Artifacts are any research output that is available online, like abstracts, articles, book chapters, conference papers, figures, images, interviews, journals...etc.

PlumX Metrics uses sources like Amazon, bit.ly, EBSCO, ePrints, Facebook, Github, OJS Journals, Google+, Reddit, Twitter, Wikipedia, YouTube...etc.

PlumX Metrics and the artifact widget free of charge to non-commercial open access journals and regional repositories, upon request and approval.

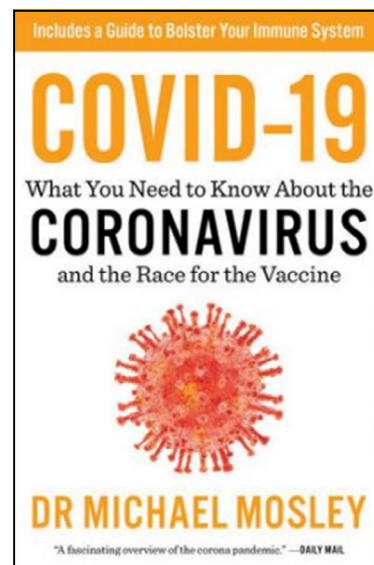
For more information visit: [plumanalytics.com](http://plumanalytics.com)

## DOMESTIC AND INTERNATIONAL BOOK AND JOURNAL REVIEW

### BOOKS

#### ***COVID-19: What You Need to Know about the Coronavirus and the Race for the Vaccine***

Discover the most essential and comprehensive information about the coronavirus (COVID-19) pandemic, how to ward off infection, and safeguard your mental and physical health during isolation—from the award-winning science journalist and #1 New York Times bestselling author of *The Fast 800* and *The FastDiet*.



Dr. Michael Mosley has experienced the effects of coronavirus firsthand, as he and both his sons—medical professionals in their twenties—all became ill during the height of the pandemic in London. Now recovered, Dr. Mosley shares his insights and explains the science behind the greatest public health crisis of our time. From the emergence of the novel virus in China at the end of 2019 to its rapid worldwide spread, this clear, detailed guide provides you with a basic understanding of the virus, how it jumps from person to person, how it can be overcome, and the most effective ways to protect yourself and your family. Featuring in-depth interviews with leading doctors and virus researchers working on the front lines to defeat this microscopic enemy, COVID-19 also tracks the ongoing developments in finding new treatments and an effective vaccine—the only way to ultimately halt the spread of the virus. Offering highly readable, easy-to-digest information about this global pandemic, Dr. Mosley's COVID-19 is the ultimate resource to help you feel better informed and take care of yourself as we all work through this global crisis.

Author: **Michael Mosley**

Language	Publisher	Print length	ISBN	Publication date
English	Short Books Ltd.	144 pages	9781780724614	28.05.2020

Source: [shortbooks.co.uk/book/covid-19](https://shortbooks.co.uk/book/covid-19)

#### ***Migration and the criminal law appearance of foreigners***

Cross-border forms of human relocation is one of the key issues in today's political discussion across Europe as well as in Hungary. Analyzing

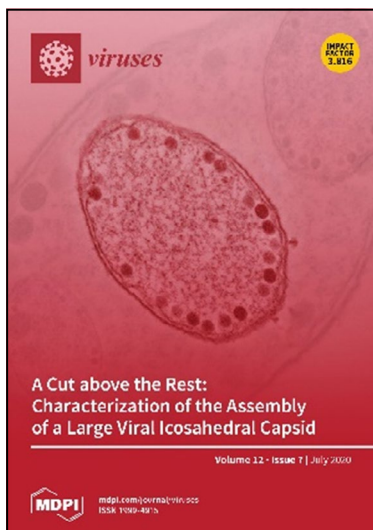
international migration and its social impacts on our continent may have never been more in focus than it is today. By the end of the second decade of the 21st century, legislation related to the real or potential consequences of this phenomenon had moved in the direction of a well-defined will. While banning uncontrolled human migration through criminal law is not a recent reaction, state and social rejection of migration may have never been as widespread as it is today. The aim of this volume - taking into account the above - is to present a schematic picture of the system and conceptual possibilities of legal regulation related to migration and beyond, especially the forms and peculiarities of criminal substantive, procedural and penitentiary legal norms related to foreigners in Hungary.

Author: **Zoltán Hautzinger**



Language	Publisher	Printh length	ISBN	Publication date
<b>Hungarian</b>	<b>AndAnn Publisher</b>	<b>246 pages</b>	<b>9789638922434</b>	<b>2018</b>

Source: [webshop.ludovika.hu/termek/tankonyvek/rendeszettudomany/a-migracio-es-a-kulfoldiek-buntetojogi-megjelenese](http://webshop.ludovika.hu/termek/tankonyvek/rendeszettudomany/a-migracio-es-a-kulfoldiek-buntetojogi-megjelenese)



## JOURNALS

### ***Early Phase of the COVID-19 Outbreak in Hungary and Post-Lockdown Scenarios***

COVID-19 epidemic has been suppressed in Hungary due to timely non-pharmaceutical interventions, prompting a considerable reduction in the number of contacts and transmission of the virus. This strategy was effective in preventing epidemic growth and reducing the incidence of COVID-19 to low levels.

In this report, we present the first epidemiological and statistical analysis of the early phase of the COVID-19 outbreak in Hungary. Then, we establish an age-structured compartmental model to explore alternative post-lockdown scenarios. We incorporate various factors, such as age-specific measures, seasonal effects, and spatial heterogeneity to project the possible peak size and disease burden of a COVID-19 epidemic wave after the current measures are relaxed.

Authors: **Gergely Röst, Ferenc A. Bartha, Norbert Bogya, Péter Boldog, Attila Dénes, Tamás Ferenci, Krisztina J. Horváth, Attila Juhász, Csilla Nagy, Tamás Tekeli, Zsolt Vizi & Beatrix Oroszi**

Language	Journal	Vol./Issue	DOI	Publication date
English	Viruses	12 / 7	10.3390/v12070708	June, 2020

Source: [www.mdpi.com/1999-4915/12/7/708](http://www.mdpi.com/1999-4915/12/7/708)

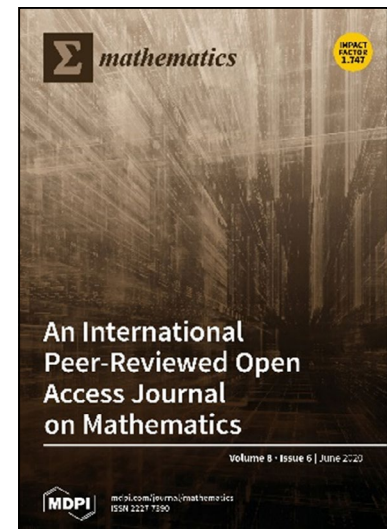
### **COVID-19 Pandemic Prediction for Hungary; A Hybrid Machine Learning Approach**

Several epidemiological models are being used around the world to project the number of infected individuals and the mortality rates of the COVID-19 outbreak. Advancing accurate prediction models is of utmost importance to take proper actions. Due to the lack of essential data and uncertainty, the epidemiological models have been challenged regarding the delivery of higher accuracy for long-term prediction. As an alternative to the susceptible-infected-resistant (SIR)-based models, this study proposes a hybrid machine learning approach to predict the COVID-19, and we exemplify its potential using data from Hungary. The hybrid machine learning methods of adaptive network-based fuzzy inference system (ANFIS) and multi-layered perceptron-imperialist competitive algorithm (MLP-ICA) are proposed to predict time series of infected individuals and mortality rate. The models predict that by late May, the outbreak and the total mortality will drop substantially. The validation is performed for 9 days with promising results, which confirms the model accuracy. It is expected that the model maintains its accuracy as long as no significant interruption occurs. This paper provides an initial benchmarking to demonstrate the potential of machine learning for future research.

Authors: **Gergo Pinter, Imre Felde, Amir Mosavi, Pedram Ghamisi & Richard Gloaguen**

Language	Journal	Vol./Issue	DOI	Publication date
English	Mathematics	8 / 6	10.3390/math8060890	June, 2020

Source: [www.mdpi.com/2227-7390/8/6/890](http://www.mdpi.com/2227-7390/8/6/890)



## PREVIEW OF THE 2021/1. ENGLISH SPECIAL ISSUE

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### Articles planned for the English-language issue:

#### STUDIES

**Lívía Horgos:** Thoughts about the Definition of Ius Puniendi in Legal Theory

**Zoltán Prantner:** The problem of the return of the Islamic State's Balkan volunteers

**Radoslav Ivančik:** A Treatise on the Theoretical Basis of Research on the Organizational Culture of a Police Organization

**Gábor Sinkó:** Shifting the Battle to Social Media: the Effectiveness of Boko Haram's Online Strategy in Terms of its Recruitment

**András László Szabó:** Analysis of Lone Offenders with an Immigrant Background and a Prevention Model

**Erzsébet Tózsér:** A Survey of the Organizational Situation of New Generations at a County Police Headquarters in Hungary

**Zita Veprik:** The corruption risks of police tasks related to state border in connection with the handling of world pandemic COVID-19

**Bence Lakatos:** Investigation of Smart Tools in Order to Improve the Effectiveness of the Administration of Disaster Management I.

#### RECENSIONS

**Gábor Éberhardt:** Policing the Coronavirus Outbreak: Processes and Prospects for Collective Disorder

**Viktor Németh:** Anticorruption (The MIT Essential Knowledge Series)

#### OVERVIEW

**Valér Dános – Csaba Szabó:** The development of science is uninterrupted. Interview with Prof. Katalin Karikó, elaborator of the mRNA-mediated therapy

## AFTERWORD

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We have tried to fill our new bulletin with actual and interesting contents. We look forward to receiving your forward-looking and helpful feedback and suggestions, to our editorship. We hope you have enjoyed reading the bulletin and gained a lot of useful information!

***Editorship***

## CONTACT DETAILS

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**OJS:** [ojs.mtak.hu/index.php/belugyiszemle/index](https://ojs.mtak.hu/index.php/belugyiszemle/index)

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### **Edited by**

**Dr. Csaba Szabó** PhD, pol. lieutenant colonel, Managing Editor of Belügyi Szemle

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### **Involved in Editing**

**Anita Varga** Foreign Language Consultant of Belügyi Szemle

**Barbara Galambosi** International Indexing Expert of Belügyi Szemle

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