

## CURRICULUM VITAE

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**Dóra Paróczai M.D.**

### PERSONAL DETAILS

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- Phone: +3630/288-2714
- Email: [paroczai.dora@med.u-szeged.hu](mailto:paroczai.dora@med.u-szeged.hu)
- Date of birth: 07/03/1993



### EDUCATION

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- 2019-2021     **University of Szeged, Doctoral School of Interdisciplinary Medicine**  
PhD student in Microbiology and Immunology
- 2017-2021     **Csongrád County Hospital of Chest Diseases, Department of Pulmonology, University of Szeged**  
Pulmonologist resident
- 2013-2017     **University of Szeged, Faculty of Medicine**  
medical doctor, *summa cum laude*
- 2011-2013     **University of Szeged, Faculty of Dentistry**
- 2007-2011     **Radnóti Miklós Experimental High School, Szeged**

### WORK EXPERIENCE

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- 2022-             **Csongrád County Hospital of Chest Diseases, Department of Pulmonology, University of Szeged**  
Pulmonologist ( full time)
- 2022-             **Department of Medical Microbiology, University of Szeged**  
Post-doctoral researcher and assistant professor ( part-time)
- 2021-             **ERS SHARP “Rising star”, project co-leader**
- 2021-2022       **Vlaams Instituut voor Biotechnologie (VIB)-Inflammation Research Centre, Ghent University, Belgium**  
  
**Postdoctoral researcher** at Prof. Bart Lambrecht’s lab, topic: Immune response to Charcot-Leyden crystals ex vivo and in vivo, NETosis and complement system analysis

2019-2021	<b>University of Szeged, Doctoral School of Interdisciplinary Medicine</b> PhD student in Microbiology and Immunology <ul style="list-style-type: none"> <li>• Investigate antichlamydial and antimicrobial mechanisms <i>in vitro</i> and <i>in vivo</i></li> <li>• Testing the potential antichlamydial effects of inhaled medications on <i>C. pneumoniae</i>- infected epithelial cell culture, determining differences at gene expression and cytokine level</li> <li>• PhD thesis: "Investigation of drugs influencing the outcome of <i>Chlamydia pneumoniae</i> infection and the immune response induced by the pathogen" (under review)</li> <li>• Exploring bacterial and viral interactions in vitro on HSV and <i>C. trachomatis</i> infected rat cell line</li> </ul>
2017-2021	<b>Csongrád County Hospital of Chest Diseases, Department of Pulmonology, University of Szeged</b> <ul style="list-style-type: none"> <li>• Resident doctor in Pulmonology      expected date of completion: 2021 October</li> </ul>
2015-2017	<b>Scientific student circle activity</b> <b>University of Szeged, Faculty of Medicine, Department of Medical Microbiology and Immunobiology</b> Research fields: <ul style="list-style-type: none"> <li>• To analyse the role of vitamin D in <i>Chlamydia pneumoniae</i> infections <i>in vivo</i></li> <li>• Investigating cytokine and chemokine responses caused by Chlamydia infection</li> </ul>
2016-2017:	<b>Demonstrator</b> <b>University of Szeged, Faculty of Medicine, Department of Medical Microbiology and Immunobiology</b> Leading microbiology and immunology practices for hungarian medical and pharmacy students

## TEACHING ACTIVITIES

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### Department of Pulmonology, University of Szeged:

- Leading pulmonology practices for English and Hungarian medical students and for physiotherapy students
- Organizing educational activities
- Leading scientific circle student activities

### Department of Medical Microbiology and Immunobiology, University of Szeged:

- Conduct medical microbiology practices for English and Hungarian medical students

## RESEARCH ACTIVITIES AND COLLABORATIONS

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### 1. ERS activity:

The European Respiratory Society (ERS) selected 1 young talent from each country, based on nominations, in the field of severe asthma research to participate in international studies, research and mentor-led trials in **Severe Heterogeneous Asthma, Research Collaboration, Patient-Centred, SHARP**.

I am the only young Hungarian participant in the so-called **"Rising star" programme**, recommended by the staff of the National Institute of Pulmonology (Prof. Dr. Ildikó Horváth and Dr. Zsuzsanna Csoma). During my research, together with the principal investigator of the Dutch centre UMC Amsterdam, as co-investigator, we assessed the association between severe asthma care and the COVID-19 pandemic across Europe. Our research took place between 11.30.2020 - 09.05.2021, with 18 European countries participating. During my work, I not only measured the impact of COVID-19 in patients with severe asthma, but I also led regular bi-weekly meetings and reported on the work done to the ERS SHARP group once a month. I worked with over 40 internationally recognised experts from 18 countries on our research. As co-lead author of the research, I also played a major role in writing the manuscript of our work, and was recommended as a shared first author by ERS SHARP.

ERJ Open published our first authored work from an international collaboration:

The effect of the COVID-19 pandemic on severe asthma care in Europe - will care change for good?"

ERJ Open Res 2022 May 16;8(2):00065-2022

I also presented our work as a poster during at the ERS Congress in Barcelona, 2022.

**Currently**, I am involved in our new project led Ramesh Kurukulaaratchy, UK, Hans Michael Haitchi, UK, Anna Freeman, UK, Olivia Fulton, UK, Judit Varkonyi-Sepp, UK, Ben Ainsworth, UK, title: "Identifying the burden and impact of comorbidities and multimorbidity on people with difficult-to treat/ severe asthma"

2. **VIB UGent Center for Inflammation Research (Prof. Bart Lambrecht, Helena Aegerter):** the role of Charcot-Leyden crystals in NETosis, investigation of the immune response induced by crystals using flow cytometry, confocal microscopy, ELISA, PCR etc. Analysis of data from the study visit (2021-2022), preparation of manuscript  
**I presented our work at the annual Belgian Immunological Society (BIS) meeting in Brussels, 2022**

### Department of Medical Microbiology and Immunobiology, University of Szeged:

- To clarify antichlamydial effects of inhaled drugs
- Analyzing host gene expressions in *Chlamydia trachomatis* and *herpes simplex genitalis* infection in *in vitro*
- To investigate further chlamydial persistence mechanisms

- Investigation of *Chlamydia muridarum* and *Chlamydia pneumoniae* infected mice lungs at cytokine and gene level, transcriptome analysis
- Investigation of *C. trachomatis* infection in HL-60 and HeLa cells
- Investigation of peripheral mononuclear cells from steroid resistant and sensitive patients: cytokine production as a function of *Chlamydia pneumoniae* serostatus
- **Current research project: Exploring the pathomechanisms of vital NETosis in the most common respiratory infections and revealing the key features of NETopathic airway inflammation in patients with asthma , identifying potential therapeutic targets against NETopathic inflammation ( project leader)**

### Collaboration with the Department of Surgery

- Follow-up and study of patients with lung cancer underwent intubated and non-intubated VATS lobectomy: comparison of adjuvant chemotherapy characteristics (cycles received, side effects, doses, etc.) between intubated and non-intubated patients (Thorac Cancer 2020 Nov;11(11):3309-3316)
- Study of the immunological consequences of VATS and NITS
- Cellular and humoral effects of spontaneous ventilation in lung cancer patients

Under review:

**A new anesthesiological method: Spontaneous ventilation combined with double-lumen tube intubation during thoracic surgery: A three-year experience with 141 cases,** Zsolt Szabo, Csongor Fabo, , Matyas Szarvas, Maria Matuz, Adam Oszlány, Dora Paróczai, Jozsef Furak

- **Better intraoperative cardiopulmonary stability and similar postoperative results of spontaneous ventilation combined with intubation than non-intubated thoracic surgery**  
József Furák PhD med. habil.<sup>1</sup>, Zsanett Barta<sup>1</sup>, Judit Lantos<sup>2</sup>, Aurél Ottlakán PhD<sup>1</sup>, Tibor Németh<sup>1</sup>, Balázs Pécsy<sup>1</sup>, Tamás Tánczos<sup>3</sup>, Zsolt Szabó<sup>4</sup>, **Dóra Paróczai PhD<sup>5</sup>** *Gen Thorac Cardiovasc Surg* 2022 Jan 5.  
<sup>1</sup>Department of Surgery, University of Szeged, Szeged, Hungary, <sup>2</sup>Department of Neurology, Bács-Kiskun County Hospital, Kecskemét, Hungary, <sup>3</sup>Department of Anesthesiology and Intensive Care, University of Szeged, Szeged, Hungary, <sup>4</sup>Institute of Surgical Research, University of Szeged, Szeged, Hungary, <sup>5</sup>Department of Medical Microbiology, University of Szeged, Szeged, Hungary
- *Frontiers in Surgery*, 2022
- **Pathophysiological and immune advantage of spontaneous ventilation**  
(Judit Lantos<sup>1\*</sup>, Tibor Németh<sup>2</sup>, Zsanett Bartha<sup>2</sup>, Zsolt Szabó<sup>3</sup>, **Dóra Paróczai<sup>4</sup>**, Endre Varga<sup>5</sup>, Petra Hartman<sup>5</sup>
- <sup>1</sup>Department of Neurology, Bács-Kiskun County Hospital, Kecskemét, Hungary, <sup>2</sup>Department of Surgery, University of Szeged, Szeged, Hungary, <sup>3</sup>Institute of Surgical Research, University of Szeged, Szeged, Hungary, <sup>4</sup>Department of Medical Microbiology, University of Szeged, Szeged, Hungary, <sup>5</sup>Department of Traumatology, University of Szeged, Szeged, Hungary
- **Perioperative Systemic Inflammation in Lung Cancer Surgery'**  
Front Surg. 2022 May 20;9:883322

- József Furák, Tibor Németh, Judit Lantos, Csongor Fabó, Tibor Géczi Géczi, Noémi Zombori-Tóth, Dóra Paróczai, Zalán Szántó and Zsolt Szabó

### **Collaboration with the Department of Pathology**

The clinical (OS, PFS) and pathological characteristics (recurrence, STAS, TNM, etc.) of lung cancer patients who underwent sublobar resection over the last 5 years

### **The More Extensive the Spread through Air Spaces, the Worse the Prognosis Is: Semi-Quantitative Evaluation of Spread through Air Spaces in Pulmonary Adenocarcinomas**

Noémi Zombori-Tóth , Dóra Paróczai, Judit Lantos , Szintia Almási , Anita Sejben, László Tiszlavicz, Gábor Cserni, József Furák , Tamás Zombori

Pathobiology 2022 Aug 10;1-10.

### **Collaboration with the Center for Research and Innovation in Precision Medicine of Respiratory Diseases, Department of Pulmonology, University of Medicine and Pharmacy Timisoara, Timisoara, Romania ( Dr. Stefan M. Frent)**

- Analysis of protease inhibitor treatments for COVID-19 patients, manuscript in preparation
- Analysis of „SPERA” study, the effect of vagus nerve stimulation as an adjuvant therapy in COVID-19

### **PUBLICATIONS**

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- Dóra Paróczai, Anita Sejben, Dávid Kókai, Dezső P.Virok, Valéria Endrész, Katalin Burián: **Beneficial Immunomodulatory Effects of Fluticasone Propionate in *Chlamydia pneumoniae*-infected Mice**  
*Pathogens* 2021, 10(3), 338
- Dóra Paróczai, Tímea Mosolygó, Dávid Kókai, Valéria Endrész, Dezső P. Virok, Attila Somfay, Katalin Burián  
***Chlamydia pneumoniae* Influence on Cytokine Production in Steroid-Resistant and Steroid-Sensitive Asthmatics**  
*Pathogens* 2020, 9, 112
- József Furák, Dóra Paróczai, Katalin Burián, Zsolt Szabó, Tamás Zombori (shared first authors)  
**Oncological advantage of nonintubated thoracic surgery: Better compliance of adjuvant treatment after lung lobectomy**  
*Thorac Cancer* 2020 Nov;11(11):3309-3316
- Virok DP, Tömösi F, Keller-Pintér A, Szabó K, Bogdanov A, Poliska S, Rázga Z, Bruszel B, Cseh Z, Kókai D, Paróczai D, Endrész V, Janáky T and Burián K

**Indoleamine 2,3-Dioxygenase Cannot Inhibit Chlamydia trachomatis Growth in HL-60 Human Neutrophil Granulocytes**

*Front. Immunol.* 12:717311

- Dávid Kókai, Dóra Paróczai, Dezső Péter Virok, Valéria Endrész, Renáta Gáspár, Tamás Csont, Renáta Bozó, Katalin Burián

**Ambroxol Treatment Suppresses the Proliferation of Chlamydia pneumoniae in Murine Lungs**

*Microorganisms* 2021 Apr; 9(4): 880

- Dezső P. Virok, Tímea Raffai, Dávid Kókai, Dóra Paróczai, Anita Bogdanov, Gábor Veres, László Vécsei, Szilárd Poliska, László Tiszlavicz, Ferenc Somogyvári, Valéria Endrész and Katalin Burián

**Indoleamine 2,3-Dioxygenase Activity in Chlamydia muridarum and Chlamydia pneumoniae Infected Mouse Lung Tissues**

*Front Cell Infect Microbiol* 2019 Jun 12;9:192.

- **Dóra Paróczai**, Judit Lantos, Zsanett Barta, Balázs Pécsy, Aurél Ottlakán, Zsolt Szabó, Katalin Burián

**Immunological perspectives in thoracic surgery: a narrative review on the cellular and cytokine responses induced by thoracotomy and video-assisted thoracic surgery**

*AME Surgical Journal*, elfogadva: 2021.11.15.

- **Better intraoperative cardiopulmonary stability and similar postoperative results of spontaneous ventilation combined with intubation than non-intubated thoracic surgery**

József Furák PhD med. habil.<sup>1</sup>, Zsanett Barta<sup>1</sup>, Judit Lantos<sup>2</sup>, Aurél Ottlakán PhD<sup>1</sup>, Tibor Németh<sup>1</sup>, Balázs Pécsy<sup>1</sup>, Tamás Tanczos<sup>3</sup>, Zsolt Szabó<sup>4</sup>, **Dóra Paróczai PhD<sup>5</sup>**

*Gen Thorac Cardiovasc Surg.* 2022

- **Pathophysiological advantages of spontaneous ventilation**

Judit Lantos<sup>1\*</sup>, Tibor Németh<sup>2</sup>, Zsanett Bartha<sup>2</sup>, Zsolt Szabó<sup>3</sup>, **Dóra Paróczai<sup>4</sup>**, Endre Varga<sup>5</sup>, Petra Hartman<sup>5</sup>

*Front Surg.* 2022 Mar 14;9:822560

- **Perioperative Systemic Inflammation in Lung Cancer Surgery**

József Furák, Tibor Németh, Judit Lantos, Csongor Fabó, Tibor Géczi Géczi, Noémi Zombori-Tóth, Dóra Paróczai, Zsolt Szabó and Zsolt Szabó

*Front Surg.* 2022 May 20;9:883322

- The effect of the COVID-19 pandemic on severe asthma care in Europe: will care change for good?

*ERJ Open Res* 2022 May 16;8(2):00065-2022

Katrien Eger 1 2, **Dora Paroczai** 3 2, Alison Bacon 4, Florence Schleich 5, Svetlana Sergejeva 6, Arnaud Bourdin 7, Isabelle Vachier 7, Eleftherios Zervas 8, Konstantinos Katsoulis 9, Dimosthenis Papapetrou 10, Konstantinos Kostikas 11, Zsuzsanna Csoma 12, Enrico Heffler 13 14, Giorgio Walter Canonica 13 14, Ineta Grisle 15, Kristina Bieksiene 16, Jolita Palacionyte 16, Anneke Ten Brinke 17, Simone Hashimoto 1, Frank W J M Smeenk 18, Gert-Jan Braunstahl 19, Simone van der Sar 20, Florin Mihăltan 21, Natalia Nenasheva 22, Marina Peredelskaya 22, Biljana Zvezdin 23 24, Ivan Čekerevac 25 26, Sanja Hromiš 23, Vojislav Čupurdija 25 26, Zorica Lazic 25 26, Branislava Milenkovic 27, Sanja Dimic-Janjic 27, Valentyna Yasinska 28, Barbro Dahlén 28, Apostolos Bossios 28, Nikolaos Lazarinis 28, David Aronsson 29, Arne Egesten 29, Abul Kashem Mohammad Munir 29, Lars Ahlbeck 30, Christer Janson 31, Sabina Škrbat 32, Natalija Edelbaher 33, Joerg Leuppi 34, Fabienne Jaun 34, Jochen Rüdiger 35, Nikolay Pavlov 36, Pietro Gianella 37, Reta Fischer 38, Florian Charbonnier 39, Rekha Chaudhuri 40, Steven James Smith 40, Simon Doe 41, Michelle Fawdon 41, Matthew Masoli 42, Liam Heaney 43, Hans Michael Haitchi 44, Ramesh Kurukulaaratchy 44, Olivia Fulton 45, Betty Frankemölle 45, Toni Gibson 45, Karen Needham 45, Peter Howarth 46, Ratko Djukanovic 44, Elisabeth Bel 1, Michael Hyland 47

- **The More Extensive the Spread through Air Spaces, the Worse the Prognosis Is: Semi-Quantitative Evaluation of Spread through Air Spaces in Pulmonary Adenocarcinomas**

Noémi Zombori-Tóth , Dóra Paróczai, Judit Lantos , Szintia Almási , Anita Sejben, László Tiszlavicz, Gábor Cserni, József Furák , Tamás Zombori

Pathobiology 2022 Aug 10;1-10.

- **Highlighting the immunohistochemical differences of malignant mesothelioma subtypes via case presentations** Anita Sejben, Tamás Pancsa, László Tiszlavicz,, József Furák , Dóra Paróczai, Tamás Zombori  
*Thorac Cancer* 2023 Feb 20. doi: 10.1111/1759-7714.14827

## PRESENTATIONS AND POSTERS

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- **Belgian Immunology Society (BIS) meeting:**  
GM-CSF increases uptake of Charcot-Leyden crystals in neutrophils  
Dóra Paróczai<sup>1,2</sup>, Robbe Vermoesen<sup>1</sup> , Helena Aegerter<sup>1</sup> , Bart N. Lambrecht<sup>1</sup>  
<sup>1</sup> VIB-UGent Center for Inflammation Research, Ghent, Belgium <sup>2</sup> Department of Medical Microbiology, University of Szeged, Hungary
- **ERS Congress 2022, Barcelona, 4-6 September 2022:**  
**Dora Paroczai, Katrien Eger on behalf of SHARP CRC:** The effect of the COVID-19 pandemic on severe asthma care in Europe: will care change for good?- poster presentation
- **ERS (European Respiratory Society) International Virtual Congress 05-08/09/2020 E-poster:**  
**The effects of fluticasone propionate in mice infected with *Chlamydia pneumoniae***

D. Paróczai, A. Sejben, D. Kókai, D. Virok, V. Endrész, K. Burián

- **Hungarian Medical Association of America (HMAA) Summer Conference, 2021.08.27-28.**  
**The immunological effects of fluticasone propionate on Chlamydia pneumoniae-infected mice**  
Dóra Paróczai<sup>1</sup>, Anita Sejben<sup>2</sup>, Dávid Kókai<sup>3</sup>, Dezső P. Virok<sup>3</sup>, Valéria Endrész<sup>3</sup>, Katalin Burián<sup>3</sup>
- **ERS (European Respiratory Society) International Virtual Congress 07-09/09/2020, E-posters**
  - Prevalence of Chlamydia pneumoniae antibodies in Southern Hungary *European Respiratory Journal* 2020; 56: Suppl. 64, 2078.
  - The effects of inhaled corticosteroids and a beta-2 agonist on C. pneumoniae-infected airway epithelial cells *European Respiratory Journal* 2020; 56: Suppl. 64, 2336.
- **61th Conference of Hungarian Respiratory Society, Budapest, -29/08/2020-01/09/2020**
  - The local effects of inhaled corticosteroids and formoterol on C. pneumoniae infected airway epithelial cells
  - C. pneumoniae seroprevalence in southern Hungary
- **EU Respiratory Forum, Paris, 12-13/02/2020**  
C. pneumoniae serostatus influences cytokine production patterns in steroid-resistant and -sensitive asthmatic
- **18th German Chlamydia Workshop 2020, 05/02/2020**  
Dávid Kókai; Dóra Paróczai; Dezső Virok; Valéria Endrész; Katalin, Burián:  
Ambroxol possesses an antichlamydial effect in vitro and in vivo
- **18th CELCC and best of WCLC 2019, Budapest, 21-23/11/2019**  
Pushing the boundaries: a convincing case in treating CNS metastasis with alectinib
- **European Respiratory Society International Congress, Madrid, 28 September- 2 October 2019.**  
  
Dóra Paróczai, Tímea Mosolygó, Dávid Kókai, Ildikó Lantos, Dezső Virok, Zoltán Rózsavölgyi, Regina Pálföldi, Attila Somfay, Katalin Burián  
  
**C. pneumoniae serostatus influences cytokine production patterns in steroid resistant and sensitive asthmatics (thematic poster)**
- **Hungarian Medical Association of America (HMAA) Summer Conference, 2019.08.30-31.**  
  
Dóra Paróczai, Tímea Raffai, Dávid Kókai, Anita Bogdanov, Gábor Veres, László Vécsei, Szilárd Poliska, László Tiszlavicz, Ferenc Somogyvári, Valéria Endrész, Katalin Burián



## **Expression of IDO1-2, iNOS and interferon-inducible GTPases in Chlamydia-infected murine lung**

- **26- 27 April 2019 „II. Kraszkó Pál Emlékülés” Harkány**  
Hepatic hydrothorax
- **12-14 April 2019 Bakonybél, Forum of young pulmonologists**  
Immunological effects of PD-1 inhibitor
- **21-24 March, 2019, „Magyar Tüdőgyógyász Társaság Allergológiai és Légzéspathológiai szekciójának tudományos ülése és a fiatal pulmonológusok kazuisztikai fóruma”, Hajdúszoboszló**  
Hepatic hydrothorax
- **Nov.16-17, 2019 Boehringer Ingelheim Pulmo Academy, Visegrád**  
Investigating cytokine profil of steroid resistant and steroid sensitive asthmatics
- **Oct 11-13, 2018 „BRONKO2018: A Magyar Tüdőgyógyász Társaság Magyar Bronchológus Egyesülete és Onkopulmonológiai Szekciójának Konferenciája”**  
Solitaer chorioidea metastasis in NSCLC patient
- **May 23-26, 2018 60th Conference of Hungarian Respiratory Society, Pécs**  
2 oral presentation:
  - The effect of vitamin D in *C. pneumoniae* infected murine models
  - Examining PBMCs of steroid resistant and steroid sensitive asthmatic patients
- **2016 spring, Undergraduate Research Conference ( TDK conference) (08/03/2016-12/03/2016) II. prize (biochemistry, microbiology, immunology)**  
Presentation: The effect of Vitamin D in Chlamydia infected mice lung tissues
- **2016.autumn (23/11/2016-25/11/2016), Undergraduate Research Conference (TDK conference): III. prize (biochemistry, microbiology, immunology)**  
Presentation: *Chlamydia muridarum* infection is able to promote indolamine 2,3-dioxygenase expression in Balb/c mice lungs
- **XXXIII. Hungarian National Undergraduate Research Conference (TDK conference) (18/04/2017- 21/04/2017, Pécs), special award of the Hungarian Society for Microbiology**  
Presentation: The effect of Vitamin D in Chlamydia infected mice lung tissues
- **Dávid Kókai, Dóra Paróczai, Dezső Virok, Valéria Endrész, Katalin Burián**  
**Antimicrobial effect of the commonly used of mucolytic agent, ambroxol**  
ACTA MICROBIOLOGICA ET IMMUNOLOGICA HUNGARICA 66:(Suppl 1) (2019)
- **Kókai Dávid, Dóra Paróczai, Dezső Virok, Valéria Endrész, Dezső Csupor, Katalin Burián**  
**Growth modulating effect of Hedera Helix extract on bacteria**  
ACTA MICROBIOLOGICA ET IMMUNOLOGICA HUNGARICA 66:(Suppl 1) ( 2019)

- Paróczai Dóra, Burián Katalin  
**A D-vitamin hatása Chlamydophila pneumoniae-val fertőzött egerek tüdejében**  
ORVOSKÉPZÉS XCII:(2) p. 393. (2017), XXXIII. OTDK. Pécs, Magyarország: 2017.04.18 - 2017.04.21.
- Dóra Paróczai, Zoltán Molnár, Péter Balázs, Dezső P. Virok:  
**Android smartphone application for the automatic counting of bacterial colonies**  
ACTA MICROBIOLOGICA ET IMMUNOLOGICA HUNGARICA 62:(Suppl) p. 196.(2015)
- **17th International Conference of the Hungarian Society for Microbiology**  
(08/07/2015-10/07/2015, Budapest)

#### AWARDS AND SCHOLARSHIPS

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- **Hungarian Pulmonary Foundation: research grant ( project: NETosis in asthma)**
- **Post-doctoral Erasmus+ ( University of Szeged), 2021-2022, Ghent University, VIB Center for Inflammation Research ,Ghent, Belgium**  
**Supervisor: Prof. Bart Lambrecht**
- **Travel grant for the ERS Congress, Barcelona (Hungarian Pulmonary Foundation), 2022**
- **Kováts Ferenc award from the Hungarian Respiratory Society, 2022**
- **“Best resident doctor in Hungary 2020” award**
- **Hungarian Pulmonary Foundation: scholarship for PhD degree (2018-2019) (5000 EUR/ year)**
- **2016 spring, TDK conference (08/03/2016-12/03/2016) II. prize (biochemistry, microbiology, immunology)**
- **2016.autumn (23/11/2016-25/11/2016) TDK conference: III. prize (biochemistry, microbiology, immunology)**
- **XXXIII. Hungarian National TDK conference (18/04/2017- 21/04/2017, Pécs), special award of the Hungarian Society for Microbiology**

#### SCIENTIFIC SOCIETY MEMBERSHIPS

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European Respiratory Society (ERS)

Hungarian Respiratory Society

Hungarian Medical Chamber

Hungarian Society for Microbiology

Federation of European Microbiological Societies (FEMS)

International Union of Microbiological Societies (IUMS)

## METHODS USED

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- Maintenance of cell cultures
- ex vivo experiments ( with neutrophil cells isolated from bone marrow) and work with in vivo mouse models (intranasal infection, intraperitoneal injection, BAL, lung processing, MLN restimulation)
- flow cytometry (BD 5 laser Fortessa, BD A5, BD A3, LSRIII, Novocyte), evaluation of flow results using FlowJo software
- ELISA methods, dsDNA assay
- Western blot
- RNA extraction, cDNA transcription, qPCR
- Immunohistochemistry, fluorescence microscopy techniques, confocal microscopy
- bioinformatics methods (R studio, Graphpad prism, Biorender)

## OTHER SCIENTIFIC ACTIVITIES

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- **Guest editor:** Pathogens (MDPI), special issue on “Characteristics, identification and epidemiology of respiratory pathogens associated with airway diseases”
- **Reviewer:**
  - Asthma Research and Practice (BMC)
  - BMC Pulmonary Medicine
  - Thoracic cancer (Wiley)
  - Frontiers in Public Health
  - Frontiers in Thoracic Surgery
  - Toxics (MDPI)
  - Pathogens (MDPI)
  - International Journal of Environmental Research and Public Health (MDPI)
  - Journal of Clinical Medicine ( MDPI)
  - Pulmonary Medicine (Hindawi)
  - Antibiotics (MDPI)

## LANGUAGE SKILLS

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English	advanced spoken and written (TELC complex C1)
German	intermediate spoken and written (TELC complex B2)

Szeged, 15 March 2023

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Dóra Paróczai M.D.