

# Curriculum Vitae

## Eszter Andrea Virág, PhD

### PERSONAL

**Name** Dr. Eszter Andrea Virág  
**Date of birth** 08. 10. 1981  
**Place of birth** Pécs  
**Nationality** Hungarian  
**Children** Robert Nagy 2010, Lukács Nagy 2012  
**E-mail** eszterandreavirag@gmail.com  
**Address** Lehel utca 41/A, H-8360, Keszthely, Hungary  
**Phone** +36309367391



### EDUCATION

- 2012** **Ph.D. Doctoral School of Biology**, University of Pécs, Hungary  
Department of General and Environmental Microbiology  
Title of Ph.D. thesis: The mode of action of primycin antibiotic  
Supervisor: Prof. Miklós Pesti  
(Number of certification: 60/2012)
- 2008** **Graduation. Biologist**, University of Pécs, Hungary  
Title of dissertation: Examination of membrane fluidity effect of capsaicin on Humane platelet and Saccharomyces cerevisiae yeast cells  
Supervisors: Prof. Miklós Pesti, Prof. Erzsébet Róth, Dr. Mária Kürthy  
(Number of certification: 36/2008)
- 2022** **BSC. Computer Science Operational Engineering**, University of Pannonia, Nagykanizsa, Hungary  
Title of dissertation: Implementation of parameterizability of command line bioinformatics programs with graphical interface for bio- and agro-IT tasks  
Supervisor: EduCOmat LTD.

## Postgraduate courses

- 2020**                    [NextSeq500 training](#), University of Pannonia, Keszthely, Hungary
- 2019**                    [ELIXIR, Train the trainer](#), University of Debrecen, Hungary
- 2010**                    [Steps and formation of GLP system](#), Medical School, University of Pécs, Hungary
- 2009**                    [Fluorescence sensing](#), Department of Biophysics, Medical School, University of Pécs, Hungary
- 2008**                    [Central European Summer Course \(CESC\) on Biology of pathogenic Candida species, Genetics, genomics, diagnostics](#). Department of Microbiology, Faculty of Sciences, University of Szeged, Hungary

## EMPLOYMENT

- 2023-present**            Senior Research Fellow  
The University of Debrecen, Institute of Metagenomics, Debrecen
- 2018-present**            Research Institute of Medicinal Plants and Herbs, Budakalász
- 2022-2023**            Senior Research Fellow  
The University of Debrecen, Department of Molecular Biotechnology and Microbiology, Debrecen
- 2014 - 2021**            Senior Research Fellow  
University of Pannonia Georgikon Georgikon Faculty, Department of Plant Science and Biotechnology, Keszthely
- 2013 - 2014**            Postdoctoral fellow at the Department of Biochemistry, Taras Shevchenko National University of Kyiv, Ukraine
- 2008 - 2012**            PhD student and research associate at the Department of General and Environmental Microbiology, Faculty of Sciences, University of Pécs, Hungary
- 2007 - 2008**            Pharmaceutical researcher and development contributor at PannonPharma Ltd, Hungary

## KNOWLEDGE OF FOREIGN-LANGUAGES

- 2001** **Italian** Proficient level  
(number of certification: E-17/2001)
- 2011** **English** Intermediate skills in spoken and written English, scientific language exam (number of certification: A-BIO/2011/004)

## AWARDS AND HONORS

- 2011** Mayor's fellowship of the city of Pécs for the outstanding research achievements
- 2014** MTA Postdoctoral Fellowship, 2014-2016 (ID: Postdoc-2014-44)
- 2016** ÚNKP, New National Excellence Program (ID: 2016-4-IV)
- 2017** ÚNKP, New National Excellence Program (ID: 2017-4-IV-PE-1)
- 2017** Young Scientist of the Year Award, 2017 Pannon University Georgikon Faculty

## MEMBERSHIPS

- 2021-2023** MTA, Interdepartmental Scientific Committee on Bioinformatics, MTA
- 2016-present** MAGE, Association of Hungarian geneticists
- 2017-present** Supervisor in Festetics Doctoral school
- 2022-present** Suervisor in Kerpely Kálmán Doctoral School
- [Virág Eszter - ODT Személyi adatlap \(doktori.hu\)](#)

## SCIENTIFIC ACTIVITY

- Project Supervisor:** Development and production of plant-based pesticides for organic farming. 2017-2021. Research Institute for Medicinal Plants and Herbs Ltd, Hungary  
**Vállalati KFI\_16**
- PhD research topics:** Genomic and transcriptomic data analysis of plants  
Metagenomics and activity analysis of microbial community in soils  
Bioinformatics (transcriptomics, genomics, metagenomics)

Systems Biology: Mathematical and computational models on large sample high throughput screening (HTS) data

## EDUCATIONAL ACTIVITY

**PhD Supervisor** Kutasy Barbara (100%), absolutorium, expected degree: 2023  
Petrovicsné Mátyás Kinga Klára (100%), degree: 2021  
Székvári Kinga (50%)  
Farkas Zoltán (50%)  
Kolics-Horváth Éva (50%)

**MSC supervisor** Székvári Kinga, MSC, 2019  
Allaga Dávid, MSC, 2019  
Gyurcsek Ibolya, MSC, 2009

## COURSES

University of Pannonia

### BSC:

Fundamentals of Genetics and Biotechnology, course leader, Keszthely  
Bioinformatics, course leader, Keszthely  
Molecular biology, practice, Veszprém

### MSC:

Biological background of multispectral imaging (As part of Geoinformatics subject), MSc in Plant Medicine, Erasmus / FAO and Nature Conservation Engineer FOSZK (in English, Hungarian), Keszthely  
Lecture course of bioinformatics for students in plant protection, Keszthely

University of Pécs

Lecture course of microbiology for students in viticulture BSC, University of Pécs  
Practical course of toxicology for students in biology BSC and MSC, University of Pécs  
Practical course of microbiology for students in biology BSC and MSC, University of Pécs

## PUBLICATIONS

[Virág Eszter MTM](#)

[Virág Eszter Google Scholar Publications](#)

Number of publications in peer review journals: 35 / First and last authorship: 27 /  
D1: 2 Q1:10 Q2: 3 Q3: 3 Q4:9