**Curriculum vitae**

**Zsuzsanna Gaál, MD, PhD**

Born: 09.01.1990., Debrecen, Hungary

E-mail: gaal.zsuzsanna@med.unideb.hu

**Schools:**

*1996-2004*: István Hatvani Comprehensive School, Debrecen

*2004-2008*: Mihály Fazekas Secondary School, Debrecen, Faculty of Mathematics

*2008-2014*: Faculty of Medicine, University of Debrecen, General Medicine (summa cum laude)

*2015-2017*: Doctoral School of Molecular Medicine, University of Debrecen

**PhD thesis:**

**Title:** Role of Warburg effect related microRNAs and histone deacetylase enzymes HDAC4 and SIRT6 in the pathogenesis of adult hematological malignancies

**Supervisor:** László Csernoch PhD DSc, Director of Department of Physiology, Faculty of Medicine, University of Debrecen

**Date of PhD defense:** 27 September 2017

**Clinical practice:**

*2015-*: Institute-Clinic of Pediatrics, University of Debrecen

*2019:* pediatrician specialist

**Main research interests:**

Epigenetics – especially links between microRNAs, metabolism and oncogenetics

**Main clinical interests:**

Pediatric onology and hematology, clinical epigenetics

**Languages:** Hungarian, English

**Undergraduate research activity: 2008-2014, University of Debrecen**

*2008-2013*: Department of Medical Chemistry

*2011-2012*: Department of Anatomy, Histology and Embriology

*2012-2014*: Institute-Clinic of Pediatrics

*2013-2014*: Department of Physiology

**Educational activities** (lectures and tutorials in Hungarian and English language courses):

**-Student teaching assistant** (10 semesters):

-Department of Medical Chemistry, Medical Chemistry practices

-Department of Medical Chemistry, Molecular Biology practices

**-Postgraduate teaching assistant** (during PhD scholarship, 2 semesters):

-Department of Physiology, Physiology practices

-**As a resident doctor** (8 semesters)**:**

-Institute-Clinic of Pediatrics: Pediatrics practices

-Institute-Clinic of Pediatrics: Epigenetics lectures

**Social activities:**

**-Students’ Research Society of Medicine, University of Debrecen**

*2011-2013:* Student Secretary

*2013-2014:* Student Chief

**-Organization of conferences** (as chief student organizator):

*2012-2014:* Conferences of Students’ Research Society of Medicine

*2012:* European Medical Students' Conference (EMESCO)

**Prizes at Students’Research Society’s Conferences:**

**-Local:** *2009:* Special Award, Molecular Biology, *2010:* 2nd Prize, Molecular Biology, *2012*: Special Award, Anatomy, *2013:* 1st Prize, Molecular Biology, *2013*: Special Award, Hematology-Oncology, *2014*: 1st Prize, Hematology-Oncology, *2014:* 1st Prize, Farmacology

**-National:** *2011:* 1st Prize, Molecular Biology, *2015:* 2nd Prize, Clinical Oncology

**Awards:**

*2007:* National Secondary School Academic Competition, Biology, 4th Prize

*2009, 2010, 2011, 2012, 2013:* „DETEP” Scholarship of Talent Management Program

*2011, 2012, 2013:* Fellowship granted by the Republic

*2013*: Astellas Award

*2013*: Loránd Eötvös Student Scholarship

*2014*: DETEP Certificate

*2014*: Weszprémi Award

*2014*: Pro Facultate Iuventutis Award

**International postgraduate trainings and scholarships**:

*2015:* Campus Hungary Scholarship, Kuala Lumpur, Malaysia

*2015:* Campus Hungary Scholarship, Osaka, Japan

*2018:* ESPGHAN Summer School in Basics and Translational Research, Cambridge, United Kingdom

*2018:* Great Ormond Street Hospital, London, United Kingdom

*2019:* ESPGHAN Monothematic Conference on Eosinophilic Gastrointestinal Diseases, Ljubliana, Slovenia

*2019:* Childrens’ Hospital of Philadelphia

**Publications:**

Gaál Z., Oláh, É.: [MicroRNA-s and their role in malignant hematologic diseases](https://www.ncbi.nlm.nih.gov/pubmed/23261993). Orv Hetil. 153(52):2051-2059, 2012.

Gaál, Z., Oláh, É.: [Epigenetic regulatory mechanisms and their disorders in leukemia](https://www.ncbi.nlm.nih.gov/pubmed/25010758). Magy Onkol. 58(2):99-107, 2014.

# [Vincze, J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Vincze%20J%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Jenes, Á](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jenes%20%C3%81%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Füzi M](https://www.ncbi.nlm.nih.gov/pubmed/?term=F%C3%BCzi%20M%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Almássy, J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Alm%C3%A1ssy%20J%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Németh, R](https://www.ncbi.nlm.nih.gov/pubmed/?term=N%C3%A9meth%20R%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Szigeti, G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Szigeti%20G%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Dienes, B](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dienes%20B%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Gaál, Z](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ga%C3%A1l%20Z%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Szentesi, P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Szentesi%20P%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Jóna, I](https://www.ncbi.nlm.nih.gov/pubmed/?term=J%C3%B3na%20I%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Kertai, P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kertai%20P%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Paragh, G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Paragh%20G%5BAuthor%5D&cauthor=true&cauthor_uid=25920381)., [Csernoch, L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Csernoch%20L%5BAuthor%5D&cauthor=true&cauthor_uid=25920381).: Effects of fluvastatin and coenzyme Q10 on skeletal muscle in normo- and hypercholesterolaemic rats. [J Muscle Res Cell Motil.](https://www.ncbi.nlm.nih.gov/pubmed/25920381) 36(3):263-74, 2015.

# Raskó, I., Oláh, É., Gaál, Z.: A karcinogenezis genetikája. In: Klinikai genetika. Szerk.: Oláh Éva, Medicina Könyvkiadó Zrt., Budapest, 353-382, 2015.

Gaál, Z., Oláh, É., Rejtő, L., Bálint, B. L., Csernoch, L.: Expression levels of Warburg-effect related microRNAs correlate with each other and that of histone deacetylase enzymes in adult hematological malignancies with emphasis on acute myeloid leukemia. Pathol Oncol Res. 23(1):207-216, 2017.

Gaál, Z., Oláh, É., Rejtő, L., Erdődi, F., Csernoch, L.: Strong correlation between the expression levels of HDAC4 and SIRT6 in hematological malignancies of the adults. Pathol Oncol Res. 23(3):493-504, 2017.

Veres, G., Gaál, Z.: [Gastrointestinal manifestations in immunodeficiencies with monogenic origin](https://www.ncbi.nlm.nih.gov/pubmed/30525883). Orv Hetil. 159(49):2050-2056, 2018.

Gaál Zs, Csernoch L: Impact of sirtuin enzymes on the altered metabolic phenotype of malignantly transformed cells. Front Oncol. DOI: 10.3389/fonc.2020.00045