

CURRICULUM VITAE

Bálint Egyed



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Place and date of birth: Pécs, Hungary, 7th March 1995

EDUCATION

Higher level education (2014 – now):

General medicine, Semmelweis University, Faculty of Medicine (class V.)

(weighted average: 4,92)

Secondary education:

Faculty of Mathematics, Zrínyi Miklós Gimnázium, Zalaegerszeg, 2009–2014

High School Graduation Exam, higher level in Chemistry (100%) and Biology (93%)

RESEARCH ACTIVITY

Current institution:

Semmelweis University 2nd Department of Pediatrics

in collaboration with Department of Genetics, Cell- and Immunobiology

Research area: clinical genetics, pediatric hemato-oncology

Applied methods: human sample banking, molecular biology techniques with nucleic acids (isolation, PCR, sequencing – NGS), exosome purifying, flow cytometry, immune-TEM, data processing in R

Presentations on student scientific conferences (conference name, year, session, prize):

- Semmelweis Students' Scientific Conference, 2017–2019, Pediatrics, *I. prizes (in three years)*
- XXXIV. National Scientific Students' Associations Conference, 2019, Pediatrics, *Special award*
- Hungarian Medical Association of America Summer Conference Balatonfüred, 2018, Pediatrics–Sport sciences, *I. prize*
- XXV. Scientific Student Conference of Targu Mures, 2018, Pediatrics, *Special award*
- Hungarian Medical Association of America Summer Conference Balatonfüred, 2017, Pediatrics–Ob-Gyn–Genetics, *I. prize and Istvan Mechtler award*
- XXXIII. National Scientific Students' Associations Conference, 2017, Genetics-genomics, *Special award*
- XXII. Korányi Frigyes Scientific Forum, 2017, Pediatrics, *I. prize*

Publications: Sági JC*, Egyed B* et al. Possible roles of genetic variations in chemotherapy related cardiotoxicity in pediatric acute lymphoblastic leukemia and osteosarcoma. *BMC Cancer*. 2018;18(1):704. *co-first authors, contributed equally

Egyed B, Kovács G et al. New and traditional directions in the biology and management of childhood acute lymphoblastic leukemia. *Orv Hetil*. 2018;159(20):786-797.

Competition essay to the rector (Semmelw. Univ.), *I. prize* (title: Genetic variations in pediatric acute lymphoblastic leukemia: anthracycline pharmacogenomics)

GRANTS, AWARDS, HONOURABLE MENTIONS (prize/grant, institution, year)

- Stephen W. Kuffler Research Scholarship, Stephen W. Kuffler Research Foundation, 2019
- Supplementary Research Excellence Grant, Rácz Károly School of PhD Studies, 2018
- Kerpel Research Grant, Semmelweis University Kerpel-Fronius Ödön Talent Program, 2017

- National Higher Education Grant, Hungarian Ministry of Human Capacities, academic year 2017/2018 and 2018/2019
- New National Excellence Program, Hungarian Ministry of Human Capacities, 2016, 2017 and 2018
- MOL Talent Support Program Art–Science Class, MOL Foundation, 2012, 2013 and 2017
- Winterl József Jakab Prize for Natural Sciences, Zrínyi Miklós Gimnázium, 2014
- Irinyi János Memorial Plaque, Hungarian Chemical Society, 2011

FURTHER CONFERENCES AND TRAINING COURSES (conference/course, place, year)

- 48th Scientific Meeting of Hungarian Pediatric Oncology Network, Nyíradony, 13-15th June 2019
- 13th Regional Central-Eastern/South-Eastern European Pediatric Oncohematology Meeting, Budapest, 4-6th Oct 2018
- The diagnostic use of ultrasound, Semmelweis Univ. Dept. of Radiology, Budapest, 27-30th Aug 2018
- 47th Scientific Meeting of Hungarian Pediatric Oncology Network, Kecskemét, 31st May – 2nd June 2018
- 12th Regional Central-Eastern/South-Eastern European Pediatric Oncohematology Meeting, Cluj Napoca, Romania, 28-30th Sept 2017
- 46th Scientific Meeting of Hungarian Pediatric Oncology Network, Bikal, 8-10th June 2017
- 45th Scientific Meeting of Hungarian Pediatric Oncology Network, Kerekegyháza, 2-4th June 2016
- 26th Annual Meeting of the International BFM Study Group, Budapest, 8-10th May 2015

RESULTS IN SCIENTIFIC COMPETITIONS (competition name, place, year)

National Secondary School Academic Competition in Biology (II. place) and in Chemistry (V.), 2014

1st places in Chemistry, Biology and Informatics: Curie Chemistry Competition, I. places, 2013–14
 Hlavay József Chemistry Competition, I. places, 2012–13
 Irinyi János Chemistry Competition, I. place, 2011
 Nemes Tihamér Informatics Competition, I. place, 2010
 Sajó Károly Biology Competition, I. place, 2009

Participation in the national selector program for International Chemistry (IChO, 2013, 2014) and Biology (IBO, 2014) Olympiad.

Academic competitions at **Semmelweis University** (subject, place, year):

- 1st places: Anatomy and histology (2015, 2016), Immunology (2016), Medical biochemistry (2015), Orthopedics (2017), Hygiene (2018)
 2nd places: Medical physiology (2016), Medical biophysics (2015), Genetics and genomics (2017)
 3rd place: Pathology (2017)

FURTHER EXTRACURRICULAR PERFORMANCE

Organization of scientific conferences (conference name, date, venue):

- XXIII. Korányi Frigyes Scientific Forum, 12-13th April 2018, Semmelw. Univ. Korányi Frigyes College for Advanced Studies, Budapest (main organizer; 250 participants)
- RECOOP – Frigyes Korányi Science Forum, 9th March 2018, Danubius Hotel Gellért, Budapest (co-organizer; 100 participants, English language)

Participation in talent support programs (program, duration):

- Semmelw. Univ. Korányi Frigyes Collage for Advanced Studies, from 2014 (Scientific Committee membership, academic year 2015/2016)
- Semmelw. Univ. Kerpel-Fronius Ödön Talent Support Program and Rector’s Excellency List, membership (from 2015)
 Mentor: Prof. Anita Kamondi

Educational activity (activity, subject, year):

- Nominated demonstrator, Semmelw. Univ. Department of Biophysics and Radiation Biology (Medical biophysics for first-year medical students), academic year 2016/2017
- Nominated demonstrator, Semmelw. Univ. Department of Genetics, Cell- and Immunobiology (Immunology for third-year medical students), academic year 2018/2019
- Participation in prevention and health-promoting programs, lectures in secondary schools (Hungarian Medical Student Association)

OTHERS

Science internships abroad:

- Medizinische Universität Innsbruck, Austria, 5 months (2019), German language (Erasmus+scholarship)
- University of Buffalo, USA, 3 months (2019-20), English language (HMAA Exchange Program)

Performance in the media:

- Történet hangszerelve (portrait program), Kossuth Radio, 19th Nov 2014 15:10–15:35)
- Egyetem, labor, klinika (report), Prémium magazine, Sept 2016

Language skills: English (complex, C1); German

Research interest:

As a committed supporter of pediatric onco-hematology care it is a nice pleasure for me to be involved in molecular genetics and translational research under the aegis of Semmelweis University:

1. Identification of new, circulating microRNA and extracellular vesicle based liquid biopsy markers in order to develop a sensitive tool for the monitoring of central nervous system involvement in pediatric acute leukemias. As a part of this project our group build a countrywide significant pediatric hematology biobank with constant sample collection (bone marrow, peripheral blood, cerebrospinal fluid).
2. Development of customized next generation sequencing panels for diagnostic and treatment prediction purposes in pediatric hematologic malignancies (with MTA-SE Momentum Molecular Onco-hematology Research Group).
3. Personalized medicine in pediatric acute lymphoblastic leukemia: anthracycline-induced cardiotoxicity risk assessment by germline single nucleotide polymorphisms, and investigation of their network-level interactions using bioinformatics (BN-BMLA).

Budapest, 1st July 2019



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