

Curriculum Vitae
Dr Anikó Szabó MD, PhD
Cloned and Discovered famous HuD brain protein
Assistant Professor of Anatomy
Alfaisal University, College of Medicine, Riyadh, Saudi Arabia

Citizen of USA
Citizen of EU
Citizen of Hungary

Date March. 13. 2018.

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Email: ash38@cornell.edu, aszabo@alfaisal.edu,

Foreign Languages: Hungarian, English, Latin, Russian, German, Reading Arabic

Education

- 1993 **Ph.D.**, Neuroscience Major, Biochemistry and Pharmacology Minors
 Weill Cornell Graduate School of Medical Sciences, NY, NY
 Memorial Sloan Kettering Cancer Center, New York City, USA
 Thesis Advisor: Jerome B. Posner and Henry Furneaux
 “Title of thesis”: Cloning and Characterization of HuD: a Human Brain Paraneoplastic
 Antigen (**citation index is close to 450**)
- 1982 **M.D.**, General Medicine, Albert Szent-Györgyi Medical School, Szeged, Hungary

Summa Cum Laude Diploma

Post Graduate Research Fellowship in Hungary

1985-1986 United Nation and UNESCO affiliated
Biological Research Center of Hungarian Academy of Sciences, Department of Neurobiology
Szeged, Hungary

Full Cornell Fellowship in USA

1986-1993 Cornell Fellowship in Neuroscience, Weill Cornell Graduate School of Medical Sciences
New York, NY, USA

Honors and Awards

2018 1st place in Medicine and Health Science: 9th Annual Research Day Student Poster Competition
Alfaisal University, College of Medicine, Riyadh, KSA

2017 2nd place in Medicine and Health Science: 8th Annual Research Day Student Poster Competition
Alfaisal University, College of Medicine, Riyadh, KSA

2017 3rd place in Medicine and Health Science: 8th Annual Research Day Student Poster Competition
Alfaisal University, College of Medicine, Riyadh, KSA

2017 “Chairman’s Pick”, Alfaisal University, College of Medicine, Dept of Anatomy, Riyadh, KSA

2010 “Rookie Professor” Award, Anne Arundel Community College (AACC), Maryland, USA

1991 Vincent du Vigneaud Prize, Weill Cornell Graduate School of Medical Sciences, USA

1982 Award of Travelling to Medical School Student Symposium, Odessa, Soviet Union

1982 Award of Research Excellence, Albert Szent-Györgyi Medical School, Szeged, Hungary

1981 Award of Travelling to Medical School Student Symposium, Varna, Bulgaria

1981 Award of Research Excellence, Albert Szent-Györgyi Medical School, Szeged, Hungary

Employment History and Academic Appointments

2014-Present Alfaisal University, College of Medicine, Assistant Professor of Anatomy, Riyadh, KSA

2013 University of Maryland School of Medicine, USA, Instructor, Anatomy and Neurobiology

2012 University of Maryland School of Medicine, USA, Affiliate, Anatomy and Neurobiology

2011-2014 University of Maryland University College, USA, Online Faculty, Natural Sciences

2008-2014 Anne Arundel Community College (AACC), Maryland, USA, Associate Professor

2007 Harvard Medical School, USA, Instructor, Human Anatomy,

2007 McLean Hospital, Harvard Medical School, USA, Research Associate, Molecular Neurobiology

2004-2006 Austin Community College (ACC), Texas, USA, Associate Professor, Biology

1994-2003 Full Time Mother

1985-1986 Albert Szent-Györgyi Medical School, Szeged, Hungary
Assistant Professor, Physiology, including Neurophysiology,

1982-1985 Albert Szent-Györgyi Medical School, Szeged, Hungary
Assistant Professor, Anatomy, including Neuroanatomy,

Teaching Services

Medical Student Teaching

- 2014 Alfaisal University, College of Medicine, Riyadh, KSA
Assistant Professor
300, 1st year medical students – 20 contact hours/week, lectures, Histology groups
100, 2nd year medical students – 4 contact hours/week in small PBL groups
- 2013 University of Maryland School of Medicine, Baltimore, USA
Instructor, Anatomy and Neurobiology
40, 1st year medical students - 8 contact hours/week, Cadaver Dissection Lab
- 2012 University of Maryland School of Medicine, Baltimore, USA
Affiliate, Anatomy and Neurobiology
Observation of Lectures and Dissections
- 2007 Harvard Medical School, Boston, USA
Human Body Course
PBL Small Group Discussion Leader
8, 1st year medical students - 5 contact hours/week
- 2007 Harvard Medical School, Boston, USA
Human Body Course
Histology Teacher
8, 1st year medical students - 5 contact hours/week
- 1985-1986 Albert Szent-Györgyi Medical School, Szeged, Hungary
Human Physiology, including Neurophysiology Lab Teacher
20, 2nd year medical students – 3 contact hours/week
- 1982-1985 Albert Szent-Györgyi Medical School, Szeged, Hungary
Human Anatomy, including Neuroanatomy, Cadaver Dissection Lab Teacher
20, 1st-2nd year medical students – 6 contact hours/week
- 1982-1985 Albert Szent-Györgyi Medical School, Szeged, Hungary
Histology, including Neurohistology, Histology Lab Teacher
20, 1st-2nd year medical students – 4 contact hours/week

Undergraduate Student Teaching

- 2011-2014 University of Maryland University College, USA, Online Professor
30 students per online class
Molecular Biology
Bioethics
Human Health and Disease
Concepts of Biology
Elements of Nutrition
Forensic Biology (Hybrid class)
30, biotechnology students– 12 contact hours/week
- 2008-2014 Anne Arundel Community College, USA, Associate Professor

Human Anatomy and Physiology I-II (BIO 233 and BIO 234)
150, nursing and premed students– 6 contact hours/week

Human Biology I-II (BIO 231 and BIO 232)
50, nursing and premed students– 6 contact hours/week

Structure and Function of Human Body (BIO 230)
50, non-biology majors– 6 contact hours/week
- 2008- 2012 Anne Arundel Community College, USA, Online Tutor
Human Anatomy and Physiology I-II
75, nursing and premed students– 2 contact hours/week
- 2008-2012 Anne Arundel Community College, USA, Mentor, Tutoring Center
20, nursing and premed students– 2-4 contact hours/week
- 2004-2006 Austin Community College, USA, Associate Professor
Human Anatomy (BIOL 2304/2101)
Human Physiology (BIOL 2305/2102)
Introduction to Anatomy & Physiology (BIOL 2404)
Introductory Biology (BIOL 1408)
50, nursing and premed students– 6 contact hours/week

Editing Publications

- 2007 Harvard Medical School
2009 Hallym University, Republic of Korea
2017 Medwin Publishers, Human Anatomy Open Access Journal

Research

- 2015-Present Alfaisal University, College of Medicine, Riyadh, Kingdom of Saudi Arabia
Assistant Professor
Hallym University, Republic of Korea (research partner)
HuD biology in Neuroblastoma
Interaction of RNA binding protein HuD and components of mTOR signaling in neuroblastoma
- 2007 Harvard Medical School, Boston, USA
Molecular Neurobiology Laboratory at McLean Hospital
Research Associate and Lab Manager
Stem cell research on Parkinson's animal models
- 1990-1993 Memorial Sloan-Kettering Cancer Center, New York City, NY, USA
George C. Cotzias Laboratory of Neuro-Oncology
Graduate student
Cloning and characterizing the 1st paraneoplastic brain protein, HuD with patients' sera
- 1986-1990 Weill Cornell Graduate School of Medical Sciences, New York City, NY, USA
Molecular Neurobiology Laboratory
Graduate student
Histochemistry, Biochemistry of catecholaminergic, cholinergic neurotransmitter enzymes
- 1985-1986 Albert Szent-Györgyi Medical School, Szeged, Hungary, Institute of Physiology
Assistant Professor
Role of capsaicin in pain mediating sensory neurons with light microscopy
- 1984-1985 United Nation and UNESCO affiliated
Biological Research Center of Hungarian Academy of Sciences, Department of Neurobiology
Szeged, Hungary
Fellowship in Neurobiology
Electron Microscopic study on ganglionic synapses
- 1982-1985 Albert Szent-Györgyi Medical School, Szeged, Hungary, Institute of Anatomy
Assistant Professor
Cholecystokinin radioimmunoassay and immunohistochemistry in rat spinal cord
- 1980-1982 Albert Szent-Györgyi Medical School, Szeged, Hungary, Institute of Pathophysiology
Researcher as a medical student
Behavioral studies with cholecystokinin hormone and its fragments in rats

Current Research Grant: 2015-2017

Alfaisal University, College of Medicine, Riyadh, Kingdom of Saudi Arabia
Internal Research Grant (IRG) 2015

HuD biology in neuroblastoma:

Interaction of RNA binding protein HuD and components of mTOR signaling in neuroblastoma

Student Research: at Alfaisal University, College of Medicine, Riyadh, Saudi Arabia, 2016

Under my supervision 12 medical students did educational research and conference presentations.

Publications: Peer-reviewed Journal Articles

J. Liu, J. Dalmau, **A. Szabó**, M. Rosenfeld, J. Huber, and H. Furneaux
Paraneoplastic Encephalomyelitis Antigens bind to the AU-rich elements of mRNA,
Neurology, **45**, **544-550**, **1995**

A. Szabó

Cloning and Characterization of HuD: a Human Brain Paraneoplastic Antigen,
Doctoral Dissertation
UMI Dissertation Services, May 1993

G. Manley, E. Wong, **A. Szabó**, J. Dalmau, M. Rosenfeld, and H. Furneaux
Alternative splicing and development expression of HuD and HuC,
Paper presented at the 1991 meeting on RNA Processing, Cold Spring Harbor Laboratory,
Cold Spring Harbor, New York, 1992

Dalmau J, Rosenfeld M.R, **Szabó A**, Manley G, Wong E, Posner J.B, and H. Furneaux
HuD pre-mRNA is aberrantly spliced in tumor tissue from paraneoplastic encephalomyelitis/sensory
neuropathy (PEM/SN) patients,
Neurology, **42(Suppl 3):416**, **1992**

A. Szabó, J. Dalmau, G. Manley, M. Rosenfeld, E. Wong, J. Henson, J.B. Posner, and
H. Furneaux
HuD, a Paraneoplastic Encephalomyelitis Antigen, contains RNA-binding Domains and Is
Homologous to Elav and Sex-lethal,
Cell, **67(2)**, **325-334**, **1991** (**citation index is close to 450**)

A. Szabó, G. Manley, E. Wong, and H. Furneaux
Cloning and Characterization of a Human Brain RNA-binding protein homologous to Elav
and Sex-lethal,
Paper presented at the 1991 meeting on RNA Processing, Cold Spring Harbor Laboratory,
Cold Spring Harbor, New York, 267, May 15-May 19, 1991

A. Szabó, J. Henson, E. Wong, and H. Furneaux
Isolation and Characterization of a Brain cDNA Clone Recognized by Anti-HU Sera,
Neurology, **41(3), Suppl. 1**, **364**, **1991**

H. Baker, C. Abate, **A. Szabó**, and T. H. Joh
Species-Specific Distribution of Aromatic L-Amino Acid Decarboxylase in the Rodent Adrenal
Gland, Cerebellum, and Olfactory Bulb,
The Journal of Comparative Neurology **305:119-129**, **1991**

A. Szabó, T. Kadar, M. Fekete, B. Penke, and Gy. Telegdy
Effect of Cholecystokinin Octapeptides and its Fragments on conditioned Behavior in Rats,
Kiserletes Orvostudomány (Experimental Medicine), **35**, **329**, **1983**

M. Fekete, T. Kadar, M. Balazs, **A. Szabó**, B. Botond, and Gy. Telegdy
Behavioral Effects of Cholecystokinin Antiserum,
Kiserletes Orvostudomány (Experimental Medicine), **35**, **318**, **1983**

M. Fekete, **A. Szabó**, M. Balazs, B. Penke, and Gy. Telegdy
 Effects of Intraventricular Administration of Cholecystokinin Octapeptide Sulfate Ester and Unsulfated Cholecystokinin Octapeptide on Active Avoidance and Conditioned Feeding Behavior of rats, **Acta Physiol. Acad. Sci. Hung.**, **58**, 39-45, 1981

Publications: Conference Papers

1. RBP1 Protects Neuroblastoma Cells from Stress Induced Cellular Death
 Kausik Bishayee, *Alistare Sadra, *MSD Khadija Habib, Mi Rim Kim, *Sung-Oh Huh and **Anikó Szabó**
 9th Annual Research Day Student Poster Competition, 1st place
 College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2018
2. TBL and PBL Should be Considered one of the Best Practices for Raising a Generation of Medical Doctors Who Can Think and Talk
 Abdulaziz Hussam Abed, Mi Rim Kim, Razan Almesned, Gulsan A. Karbani, Akef Obeidat and **Anikó Szabó**
 SIMEC Conference, Riyadh, Saudi Arabia, 2018
3. “To-go” Should be Considered one of the Best Practices for Microscopy Teaching and Learning
 Razan Almesned, Mi Rim Kim, Abdulaziz Hussam Abed, Gulsan A. Karbani, Akef Obeidat and **Anikó Szabó**
 SIMEC Conference, Riyadh, Saudi Arabia, 2018
4. Role of RNA Binding Protein 1 in mTOR Signaling to Control Proliferation of Neuroblastoma Cells
 Kausik Bishayee, Alistare Sadra, Mi Rim Kim, Sung-Oh Huh and **Anikó Szabó**
 8th Annual Research Day Student Poster Competition, 3rd place
 College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2017
5. Digitalizing Education: A call for further investment in digital resources
 Atheer Al Jubeiri, Ghadi Askar, Razan Almesned, Gulsan A. Karbani, Akef Obeidat and **Anikó Szabó**
 8th Annual Research Day Student Poster Competition,
 College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2017
6. TBL and PBL: A road to a more critically thinking generation of medical doctors
 Susan Alideeb, Sara Alideeb, Sarah A. Alghabban, Gulsan A. Karbani, Akef Obeidat and **Anikó Szabó**
 8th Annual Research Day Student Poster Competition,
 College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2017
7. Taghrid Aloraini, Aliya Abdulrahim, Prof. Moeen A, Prof. Ahmed Y, **Prof. Anikó S**, Rifaat Rawashdeh, Ameera Ablobaid and G.A.Karbani
 Determining the attitudes of genetics professionals and patients towards incidental finding from Whole Genome Sequencing (WGS) and Whole Exome Sequencing (WES)
 8th Annual Research Day Student Poster Competition,
 College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2017
8. Sara Al-Ewisy, Gulsan A Karbani, Ahmed Yaqinuddin, **Anikó Szabó**, Rifaat Rawashdeh, Moeen Alsayed, Alya Qari and Ameera Ablobaid
 Exploring the preference of Saudi clients regarding directive and non-directive communication in genetic counseling
 8th Annual Research Day Student Poster Competition,
 College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2017

9. Fawz ALHarthi, Prof. Moeen Alsayed, Prof. Ahmed Yaqinuddin, **Prof. Anikó Szabó**, Rifaat Rawashdeh, Alya Qari, Ameera Balobaid and Gulsan Karbani
Attitudes Toward Preimplantation Genetic Diagnosis vs. Pre-natal Diagnosis in Saudi Arabian Couples with Children with Genetic Disorders
8th Annual Research Day Student Poster Competition,
College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2017
10. Abdulwahab AlTheeb, Prof. Moeen AlSayed, Prof. Ahmed Yaqinuddin, **Prof. Anikó Szabó**, Rifaat Rawashdeh, Gulsan A. Karbani
Assessment of the understanding of genetics among new patients prior to undergoing genetic counselling
8th Annual Research Day Student Poster Competition,
College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2017
11. **Anikó Szabó**, Muhammad Aasim Rasheed, Mi Rim Kim, Balsum Babiker Elgerray, Abdulaziz Hussam Abed, MHD Amer Imad AlDeiry, Faisal Wael Al Kattan and Paul Ganguly
Interactive and Portable Histology Teaching and Learning in a Hybrid Problem Based Learning Integrated Curriculum
IEDRC Conference, Seoul, South Korea, 2016
12. MHD Amer Imad AlDeiry, Mohamad Owais Radwan Alzwadi, Susan Alideeb, Atheer Aljebery and **Anikó Szabó**
The Ultimate Portable Classroom: The Advent of Screencasting in Saudi Arabia
SIMEC Conference, Riyadh, Saudi Arabia, 2016
13. Ismat Alkhani, Basel E. Tamimi, Zeina Kayali, Ghada AlHayaza, Mazen AlMasry and **Anikó Szabó**
Catching up with the International Trends in Teaching and Learning in Saudi Arabia
SIMEC Conference, Riyadh, Saudi Arabia, 2016
14. **Anikó Szabó**, Muhammad Aasim Rasheed, MHD Amer Imad AlDeiry, Abdulaziz Hussam Abed, Faisal Wael Al Kattan, Mi Rim Kim, Balsum Babiker Elgerray and Paul Ganguly
Interactive and Portable Microscopy Revolution in Histology Teaching and Learning
SIMEC Conference, Riyadh, Saudi Arabia, 2016
15. Ismat Alkhani, Basel E. Tamimi and **Anikó Szabó**
Catching up with the Trends in Teaching and Learning in Saudi Arabia
7th Annual Research Day Student Poster Competition,
College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2016
16. Interactive and Portable Histology Teaching and Learning in an Integrated Curriculum
Abdulaziz Hussam Abed, Faisal Wael Al Kattan, Mi Rim Kim, Balsum Babiker Elgerray and **Anikó Szabó**
7th Annual Research Day Student Poster Competition,
College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2016
17. Atheer Aljebery, Susan Alideeb, MHD Amer Imad AlDeiry, Mohamad Owais Radwan Alzwadi, and **Anikó Szabó**
Five Minutes Home-made Videos for Medical Education
7th Annual Research Day Student Poster Competition,
College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, 2016

18. **Anikó Szabó**, What Can Faculty do to Decrease Disruptive Student Behavior?
Physiology of Hearing
AFACCT Conference, 2011
Baltimore, Maryland, USA, 2011

Major Invited Speeches: International

1. **A. Szabó**, History of HuD protein, Pharmacology, Ege University, Turkey, 2013
2. **A. Szabó**, Globalized Medical Education, Hallym University Medical School, Republic of Korea, 2009
3. **A. Szabó**, Latest Results on HuD protein, Physiology, Keio University Medical School, Tokyo, Japan, 2009
4. **A. Szabó**, HuD, a Paraneoplastic Antigen, Hallym Univ Medical School, Republic of Korea, 2005
5. **A. Szabó**, Effect of 4-AP And Stimulation on Ganglionic Synapses, Beijing University, China, 1985
6. **A. Szabó**, Effect of Cholecystokinin Octapeptides and its Fragments on conditioned Behavior in Rats, Odessa, Soviet Union, 1982
7. **A. Szabó**, Effects of Intraventricular Administration of Cholecystokinin Octapeptide Sulfate Ester and Unsulfated Cholecystokinin Octapeptide on Active Avoidance and Conditioned Feeding Behavior of rats, Varna, Bulgaria, 1981

Clinical Activities as Physician

- 1983-1985 Emergency, Psychiatry and Detoxicology of City Hospital, Szeged, Hungary
1982-1985 Emergency, Internal Medicine of City Hospital, Szeged, Hungary
1982-1985 Emergency, Chronic Diseases of City Hospital, Szeged, Hungary

Administrative Service

- 2007 Harvard Medical School, McLean Hospital
Lab Manager, Molecular Neurobiology

Institutional Service

- 2010-2012 Job Interviewer, AACCC
2012-2013 College Catalog Editing, AACCC

Home-Made Five Minutes Videos

- 2012 Johns Hopkins School of Medicine, Neurology Clerkship
Neuropharmacology Animation Negotiations

2014-Present Alfaisal University, College of Medicine, Riyadh, Kingdom of Saudi Arabia
Histology Videos

Launching Olympus Virtual Microscopy at Alfaisal University, Riyadh, Saudi Arabia

2015-Present: I scanned and labelled histology slides with Olympus Scanning Microscopy

**Launching Olympus Virtual Microscopy at College of Medicine & Health Sciences at Sultan
Qaboos University,**

2018 March 18. Muscat, Oman