



Timea Forró

✉ Email address: timea.forro@umfst.ro

📍 Work: Târgu Mureş (Romania)

ABOUT ME

BrainMap: U-2100-066E-8533

ORCID: 0000-0002-5137-1819

WORK EXPERIENCE

Specialist doctor in Neurology

[10/05/2023 – Current]

Resident doctor in Clinical Genetics

Clinical Genetics Laboratory, County Emergency Clinical Hospital of Targu Mures [15/01/2023 – Current]

Research Excellence Scholarship - Center for Advanced Medical and Pharmaceutical Research

"George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Targu Mures

[12/2022 – 02/2023]

Neurology didactic activity

"George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Targu Mures

[09/2021 – 06/2023]

Resident doctor in Neurology

2nd Neurology Clinic, County Emergency Clinical Hospital of Targu Mures [01/01/2018 – 14/01/2023]

EDUCATION AND TRAINING

PhD student

"George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Targu Mures

[01/10/2019 – Current]

Thesis: Biomarkers of Astrocyte Dysfunction in the Prognosis of Acute Ischemic Stroke Patients

Psycho-pedagogical training program: New techniques of teaching and evaluation in medical and pharmaceutical disciplines

"George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Targu Mures

[10/2023 – 02/2024]

Masters in Advanced Medico-Pharmaceutical Scientific Research

"George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Targu Mures

[2018 – 2019]

Medical doctor

University of Medicine and Pharmacy of Targu Mures [2011 – 2017]

Graduate of the Nagy Mózes Theoretic High School, Targu Secuiesc

[2007 – 2011]

FELLOWSHIPS

[01/06/2023 – 30/09/2023]

Department of Neurology, University of Debrecen (Erasmus programme)

[01/03/2019 – 31/05/2019]

Department of Neurology, Albert Szent Györgyi Health Center, Szeged (Erasmus programme)

[25/08/2018 – 14/09/2018]

Faculty of Medicine and Health Sciences, University of East Anglia, Norwich (Research intership)

[06/03/2017 – 17/03/2017]

Department of Neurology, Albert Szent Györgyi Health Center, Szeged (Balassi programme)

[04/07/2016 – 02/09/2016]

Department of Neurology, Albert Szent Györgyi Health Center, Szeged

[10/08/2015 – 21/08/2015]

1st Department of Internal Medicine: Endocrinology and Metabolic Diseases, University of Pécs

[01/09/2013 – 21/09/2013]

Department of Human Morphology and Developmental Biology, Semmelweis University, Budapest

[23/02/2013 – 09/03/2013]

Department of Genetics, Cell- and Immunobiology, Semmelweis University, Budapest (Balassi programme)

LANGUAGE SKILLS

Mother tongue(s): Hungarian

Other language(s):

Romanian

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

Research grants - Project manager

- Glial cell-derived exosomes as potential biomarkers in acute ischemic stroke (Exozomi derivați din celule gliale ca potențiali biomarkeri în accidentul vascular cerebral ischemic acut), Internal competition for scientific research grants, 2022, "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Targu Mures; Amount: 5000 euro; Duration: 12 month.

In extenso

- **Forró T**, Manu DR, Barbu-Tudoran L, Bălaşa R. Astrocyte Dysfunction Reflected in Ischemia-Induced Astrocyte-Derived Extracellular Vesicles: A Pilot Study on Acute Ischemic Stroke Patients. *Int J Mol Sci.* 2024, 25, 12471. **IF: 4.9**
- **Forró T**, Manu DR, Băjenaru OL, Bălaşa R. GFAP as Astrocyte-Derived Extracellular Vesicle Cargo in Acute Ischemic Stroke Patients-A Pilot Study. *Int J Mol Sci.* 2024, 25, 5726. **IF: 4.9**
- **Forró T**, Bajkó Z, Bălaşa A, Bălaşa R. Dysfunction of the Neurovascular Unit in Ischemic Stroke: Highlights on microRNAs and Exosomes as Potential Biomarkers and Therapy. *Int J Mol Sci.* 2021, 22, 5621. **IF: 6.208**
- Bara Z, Gozar H, Nagy N, Gurzu S, Derzsi Z, **Forró T**, Kovács E, Jung I. Fetoscopic Endoluminal Tracheal Occlusion-Synergic Therapies in the Prenatal Treatment of Congenital Diaphragmatic Hernia. *Int J Mol Sci.* 2025, 26, 1639. **IF: 4.9**
- Manu DR, Slevin M, Barcutean L, **Forro T**, Boghitoiu T, Balasa R. Astrocyte Involvement in Blood-Brain Barrier Function: A Critical Update Highlighting Novel, Complex, Neurovascular Interactions. *Int J Mol Sci.* 2023, 24, 17146. **IF: 4.9**
- Szász JA, Szatmári Sz, Constantin V, Mihály I, Török Á, Frigy A, Metz J, Kelemen K, Szász RM, **Forró T**, Baróti B, Orbán-Kis K. Az intestinalis gél bevezetésekor rögzített jellemzők tízéves változásai előrehaladott Parkinson-kóros betegekben [Ten-year trends of the characteristics in patients with advanced Parkinson's disease at the time of intestinal gel therapy introduction]. *Orv Hetil.* 2022, 163, 1189-1195. **IF: 0.6**
- Szász JA, Szatmári Sz, Constantin V, Mihály I, Rácz A, Frigy A, Nagy E, Kelemen K, **Forró T**, Almásy E, Orbán-Kis K. Döntési szempontok és az eszközös terápia elfogadásához szükséges idő előrehaladott Parkinson-kórban [Decision-making and duration to accept device-aided therapy in advanced Parkinson's disease]. *Orv Hetil.* 2021, 162, 839-847. **IF: 0.707**
- Szász J, Szatmári Sz, Constantin V, Mihály I, Rácz A, Török I, Nagy E, Kelemen K, **Forró T**, Baróti B, Orbán-Kis K. A gastrointestinal panaszok felmérésének jelentősége előrehaladott Parkinson-kórban [The importance of evaluation of gastrointestinal symptoms in advanced Parkinson's disease]. *Orv Hetil.* 2020, 161, 1681-1687. **IF: 0.54**

Papers published as abstracts, presented at national and international conferences (first autor)

- **Forró T**, Manu D, Bălaşa R - Purification of microglia-derived extracellular vesicles following acute ischemic stroke, University Press, 2024, no.7, page 151, ISSN 2602-1609; International Conference of PhD Students, 11.12.2024, Targu Mures, Romania
- **Forró T**, Manu D, Bălaşa R - Isolation and evaluation of astrocyte-derived exosomes in acute ischemic stroke patients, University Press, 2022, no.5, page 116, ISSN 2602-1609; International Conference of PhD Students, 07.12.2022, Targu Mures, Romania
- **Forró T**, Német-Mezey Cs, Mihály I, Orbán-Kis K, Brassai A, Szatmári Sz - Sleep quality components in patients with diabetes and depressive disorder, Bulletin of Medical Sciences, 2022, 95, suppl.1, page 21, ISSN 1453-0953; XXXth Conference of the Transylvanian Museum Society, 07-09.04.2022, Targu Mures, Romania
- **Forró T**, Gál R, János SzM - The evaluation of sleep and circadian biology in patients with comorbid diabetes and depression, Orvostudomány, 2019, XCIV, nr.2, page 567, ISSN 0030-6037; XXXIVth National Conference of Scientific Students' Associations (OTDK), 23-26.04.2019, Debrecen, Hungary/Bulletin of Medical Sciences, 2017, 90, suppl.1, page 80, ISSN 1453-0953; XXIVth Scientific Student Conference (TDK), 29.03-01.04.2017, Targu Mures, Romania
- **Forró T**, Szatmári Sz, Mihály I, Német-Mezey Cs, Szegedi K, Lázár AS - The evaluation of mood and sleep in diabetes patients, Bulletin of Medical Sciences, 2019, 92, suppl.2, page 10, ISSN 1453-0953; XXIXth Conference of the Transylvanian Museum Society, 11-13.04.2019, Satu Mare, Romania
- **Forró T**, Szatmári Sz, Gál R, Mihály I, Orbán-Kis K, Brassai A, Lázár AS - Sleep in depression associated diabetes, Bulletin of Medical Sciences, 2018, 91, suppl.2, page 12-13, ISSN 1453-0953; XXVIIIth Conference of the Transylvanian Museum Society, 19-21.04.2018, Targu Mures, Romania

- **Forró T**, Szatmári Sz, Orbán-Kis K, Gál R, Mihály I, Lázár AS - The evaluation of sleep behaviours and circadian patterns in patients with comorbid diabetes and depression, Arch. Hung. Med. Assoc. Am, 2017, vol. 25, no.3, page 13-14, ISSN 1070-0773; 49th Annual Scientific Meeting of the Hungarian Medical Association of America, 29.10-03.11.2017, Sarasota, Florida, USA
- **Forró T** - The demographic and morphological comparison of different stroke types associated with elevated lipoprotein (a) level and FV Leiden mutation, Bulletin of Medical Sciences, 2017, 90, suppl.1, page 79-80, ISSN 1453-0953; XXIVth Scientific Student Conference (TDK), 29.03-01.04.2017, Targu Mures, Romania
- **Forró T** - Multiple endocrine neoplasia (MEN syndromes) and other rare hereditary endocrine tumor syndromes in the casuistry of Clinical Department of Endocrinology Târgu Mureş, during 2004–2015, Bulletin of Medical Sciences, 2016, 89, suppl.1, page 50, ISSN 1453-0953; XXIIIrd Scientific Student Conference (TDK), 06-09.04.2016, Targu Mures, Romania

Papers published as abstracts, presented at national conferences (co-author)

- Németh-Mezey Cs, **Forró T**, Mihály I, Orbán-Kis K, Kraft-Gál R - Sleep Disturbances of Type 2 Diabetic Patients, Bulletin of Medical Sciences, 2022, 95, suppl.1, page 45, ISSN 1453-0953; XXXth Conference of the Transylvanian Museum Society, 07-09.04.2022, Targu Mures, Romania
- Szász JA, Constantin V, Orbán-Kis K, Mihály I, Kelemen K, Hajdú R, **Forró T**, Szatmári Sz - Device-aided therapies in the management of advanced Parkinson's disease, Bulletin of Medical Sciences, 2022, 95, suppl.1, page 56, ISSN 1453-0953; XXXth Conference of the Transylvanian Museum Society, 07-09.04.2022, Targu Mures, Romania
- Szegedi K, Koppándi M, **Forró T**, Mihály I, Szász J-A, Szatmári Sz - Chorea-acanthocytosis - a case report, Bulletin of Medical Sciences, 2019, 92, suppl.2, page 37-38, ISSN 1453-0953; XXIXth Conference of the Transylvanian Museum Society, 11-13.04.2019, Satu Mare, Romania
- Szatmári Sz, Gál R, Mihály I, **Forró T**, Orbán-Kis K, Brassai A, Lázár AS - Neuroimaging characteristics related to the cognitive impairment and depression in diabetes mellitus, Bulletin of Medical Sciences, 2017, 90, suppl.2, page 45, ISSN 1453-0953; XXVIIth Conference of the Transylvanian Museum Society, 06-08.04.2017, Covasna, Romania
- János SzM, **Forró T** - Evaluation of comorbid headache in patients with epilepsy, Bulletin of Medical Sciences, 2017, 90, suppl.1, page 81, ISSN 1453-0953, XXIVth Scientific Student Conference (TDK), 29.03-01.04.2017, Targu Mures, Romania
- Békefi ML, Szabó T, **Forró T** - Changes in the surgical treatments of genital prolapse at the Clinic of Obstetrics and Gynecology no. I Târgu Mureş within a 10 year timespan (2004–2013), Bulletin of Medical Sciences, 2015, 88, suppl.1, page 102, ISSN 1453-0953; XXIIInd Scientific Student Conference (TDK), 25-28.03.2015, Targu Mures, Romania

Awards

- **UEFISCDI**: Awards for research articles - CODE: PN-III-P1-1.1-PRECISI-2021-62209: **Forró T**, Bajkó Z, Bălaşa A, Bălaşa R. Dysfunction of the Neurovascular Unit in Ischemic Stroke: Highlights on microRNAs and Exosomes as Potential Biomarkers and Therapy. Int J Mol Sci. 2021, 22, 5621
- PhD scholarship - Eötvös Loránd University (2021/2022)
- XXIVth Scientific Student Conference (TDK), Neurology-Neurosurgery Section - **I place**, Award of the Reformed Diocese of Transylvania, the Gecse Dániel Reformed Medical and Health Student College and the Pallas Athene Domus Concordiae Foundation
- 49th Annual Scientific Meeting of the Hungarian Medical Association of America, Sarasota, Florida - **HMAA Student Award**
- XXXIVth National Conference of Scientific Students' Associations (OTDK), Psychiatry Section - **II place**

OTHER INFORMATION

Memberships

- Member of the Transylvanian Museum Society (2015-current)
- Member of the Romanian College of Physicians (2019-current)
- Member of Association for the Advancement of Neurologists (Neurológus Továbbképző - NTK Klub Egyesület) (2021-current)
- Editor of student newspaper "Pulzus" (2015, 2016)