

**MELINDA E. TÓTH, PhD***Research associate*

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Laboratory of Molecular
Stress Biology[PUBLICATION SUMMARY](#)[LIST OF PUBLICATIONS](#)**PERSONAL DATA**

Born 1983

QUALIFICATIONS

MSc 2006, Biologist (SZTE, Szeged, Hungary)

PhD 2013, Biological sciences (SZTE, Szeged, Hungary)

PROFESSIONAL EXPERIENCE

2009-2014 Junior Research Associate, Biological Research Centre, Szeged

2014- Research Associate, Biological Research Centre, Szeged

RESEARCH INTEREST AND SKILLS

- Investigating the roles of heat shock proteins in chronic diseases.
- Using genetically modified mouse strains to model human diseases.

LANGUAGES

Hungarian (mother tongue)

English (intermediate in written and spoken)

HONORS & FELLOWSHIPS

2021 Flerkó-Bárdos medallion

2022-2025 Bolyai János Scholarship, Hungarian Academy of Sciences

2022 UNKP Bolyai+ scholarship

2023 UNKP Bolyai+ scholarship

RESEARCH GRANTS

2021-2025 OTKA FK138390 Investigating the role of HSP27 in neuroinflammation in a mouse model of Alzheimer's disease (PI)

TEACHING ACTIVITY

2013-2019	International Training Course, Biological Research Centre, Szeged
2013-2018	High School Research Camp of Life Sciences, Biological Research Centre, Szeged
2022-	Molecular Biology MSc course, University of Szeged

THESIS SUPERVISION

BSc	Brigitta Dukay (2014) Alexandra Csefov (2017) Petra Hajdu (2019) Zsfia Bdai (2020) Bettina Rkczi (2021) Zsfia Koltai (in progress)
MSc	Brigitta Dukay (2016) Alexandra Csefov (2019) Bettina Rkczi (2023)
PhD	Brigitta Dukay (2021) Zsfia Ruppert (in progress) Bettina Rkczi (in progress) PHD SUPERVISION

MEMBERSHIPS

Hungarian Biochemical Society
Hungarian Neuroscience Society

OTHER ACTIVITIES

Researchers Night, presentation
Brain Awareness Week, presentation

SELECTED PUBLICATIONS

- Tth Melinda E., Srkzy Mrta, Szucs Gerg, Dukay Brigitta, Hajdu Petra, Zvara gnes, Pusks Lszl G., Szebeni Gbor J., Ruppert Zsfia, Csonka Csaba, Kovcs Ferenc, Kriston Andrs, Horvth Pter, Kvri Bence, Cserni Gbor, Csont Tams, Sntha Mikls: Exercise training worsens cardiac performance in males but does not change ejection fraction and improves hypertrophy in females in a mouse model of metabolic syndrome. *BIOLOGY OF SEX DIFFERENCES* 13 Paper: 5 (2022)
- Tth Melinda E., Dukay Brigitta, Pter Mria, Balogh Gbor, Szucs Gerg, Zvara gnes, Szebeni Gbor J., Hajdu Petra, Srkzy Mrta, Pusks Lszl G., Trk Zsolt, Csont Tams, Vgh Lszl, Sntha Mikls: Male and Female Animals Respond Differently to High-Fat Diet and Regular Exercise Training in a Mouse Model of Hyperlipidemia. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* 22 : 8 Paper: 4198 , 22 p. (2021).
- Dukay Brigitta, Walter Fruzsina R., Vgh Judit P., Barabsi Beta, Hajdu Petra, Balassa Tams, Mgh Ede, Kincses Andrs, Hoyk Zsfia, Szgi Titanilla, Borbly Emke, Csoboz Blint, Horvth Pter, Flp Lvia, Penke Botond, Vgh Lszl, Deli Mria A., Sntha Mikls, Tth Melinda E.:

Neuroinflammatory processes are augmented in mice overexpressing human heat-shock protein B1 following ethanol-induced brain injury. JOURNAL OF NEUROINFLAMMATION 18 : 1 Paper: 22 , 24 p. (2021)

- Hoyk Zsófia, Tóth Melinda E., Lénárt Nikolett, Nagy Dóra, Dukay Brigitta, Csefová Alexandra, Zvara Ágnes, Seprényi György, Kincses András, Walter Fruzsina R., Veszeka Szilvia, Vígh Judit, Barabási Beáta, Harazin András, Kittel Ágnes, Puskás László G., Penke Botond, Vígh László, Deli Mária A., Sántha Miklós: Cerebrovascular Pathology in Hypertriglyceridemic APOB-100 Transgenic Mice. FRONTIERS IN CELLULAR NEUROSCIENCE 12 Paper: 380 , 17 p. (2018)
- Tóth ME, Szegedi V, Varga E, Juhász G, Horváth J, Borbély E, Csibrány B, Alföldi R, Lénárt N, Penke B, Sántha M: Overexpression of Hsp27 ameliorates symptoms of Alzheimer's disease in APP/PS1 mice. CELL STRESS & CHAPERONES 18 : 6 pp. 759-771. , 13 p. (2013).
- Lénárt N, Szegedi V, Juhász G, Kasztner A, Horváth J, Bereczki E, Tóth ME, Penke B, Sántha M: Increased Tau Phosphorylation and Impaired Presynaptic Function in Hypertriglyceridemic ApoB-100 Transgenic Mice. PLOS ONE 7 : 9 Paper: e46007 , 12 p. (2012)
- Toth ME, Gonda S, Vígh L, Sántha M: Neuroprotective effect of small heat shock protein, Hsp27, after acute and chronic alcohol administration. CELL STRESS & CHAPERONES 15 : 6 pp. 807-817. , 11 p. (2010)