

**BARBARA DUKIC***PhD Student*

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Laboratory of Molecular
Stress Biology**PERSONAL DATA**

Born 1994

QUALIFICATIONS

Spec. training 2022, English-Hungarian Scientific Language Translator, University of Szeged
Adult training 2021, EU project writer and project manager, EFEB Adult Training Centre
MSc 2018, Info-bionics engineer, University of Szeged
BSc 2016, Molecular bionics engineer, University of Szeged

PROFESSIONAL EXPERIENCE

2018- PhD Student, Laboratory of Molecular Stress Biology, Institute of Biochemistry, Biological Research Centre (BRC), Szeged, Hungary
2015-2018 Graduate Research Fellow, Cell Biophysics Research Group, Institute of Biophysics, Biological Research Centre (BRC), Szeged, Hungary

RESEARCH INTEREST

Mammalian cell lines
Cellular stress response
Microscopy

LANGUAGES

Hungarian (mother tongue)
Serbian (mother tongue)
English (advanced in written and spoken)

HONORS & FELLOWSHIPS

2022 Straub Young Scientist Prize, Szeged Hungary
2020 Scholarship of the S3fi J3zsef Foundation for Talents in Szeged, Committee prize, Szeged Hungary
2019 PhD Journal Club Lecture Award of the "Straub Legacy" Foundation, 3rd place, Szeged Hungary
2019 PhD Journal Club Lecture Award of the "Straub Legacy" Foundation, 3rd place, Szeged Hungary

2019	Certificate from the Szeged Committee of the Hungarian Academy of Sciences and "For the Support of Science on the South-Plain" Foundation, Szeged Hungary
2018	New National Excellence Program, Szeged Hungary Scientific
2017	National Scientific Students' Associations, Biophysics and Biooptics Section, special price, Debrecen Hungary
2017	Honor of the Dean of the University of Szeged for the achievement in the National Scientific Students' Associations Conference, Szeged Hungary
2016	Students' Associations, Physics Section, 2 nd place, Szeged Hungary

MEMBERSHIPS

2020-	Member of the Foundation for Young Talents of Szeged
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OTHER ACTIVITIES

2019	European Researchers Night lab demonstration, Szeged Hungary
2018	"Kutatóhelyek Tárt Kapukkal" lab demonstration, Szeged Hungary
2017	European Researchers Night lab demonstration, Szeged Hungary
2016	European Researchers Night lab demonstration, Szeged Hungary

SCIENTIFIC ARTICLES

MTMT ID: 10066427

Á. Pető, D. Kósa, Á. Haimhoffer, P. Fehér, Z. Ujhelyi, D. Sinka, F. Fenyvesi, J. Váradi, M. Vecsernyés, A. Gyöngyösi, I. Lekli, P. Szentesi, A. Marton, I. Gombos, B. Dukic, L. Vígh, I. Bácskay: Nicotinic amidoxime derivative, BGP-15 as a new drug candidate formulated in topical dosage forms has potential anti-inflammatory effect, *Pharmaceutics, Drug Delivery and Controlled Release*, 2021, DOI: 10.3390/pharmaceutics13122037

Á. Tizslavicz, I. Gombos, M. Péter, Z. Hegedűs, Á. Hunya, B. Dukic, I. Nagy, B. Peksel, G. Balogh, I. Horváth, L. Vígh, Z. Török: Distinct Cellular Tools of Mild Hyperthermia-Induced Acquired Stress Tolerance in Chinese Hamster Ovary Cells, *Biomedicines*, 2022, DOI: 10.3390/biomedicines10051172

B. Csoboz, I. Gombos, Z. Kóta, B. Dukic, É. Klement, V. Varga-Zsíros, Z. Lipinszki, T. Páli, L. Vígh, Z. Török: The small heat shock protein, HSPB1, interacts with and modulates the physical structure of membranes, *International Journal of Molecular Sciences*, 2022, DOI: 10.3390/ijms23137317

P. Galajda, K. Nagy, B. Dukic, O. Hodula, Á. Ábrahám, E. Csákvári, L. Dér, M. T. Wetherington, J. Noorlag and J. E. Keymer: Emergence of resistant *Escherichia coli* mutants in microfluidic on-chip antibiotic gradients, *Frontiers in Microbiology*, section Antimicrobials, Resistance and Chemotherapy, 2022, DOI: 10.3389/fmicb.2022.820738

POSTERS, CONFERENCE ATTENDANCES

B. Dukic, Á. Tizslavicz, P. Bíró, M. Péter, G. Balogh, V. Varga-Zsíros, M. Erdélyi, L. Vígh, I. Gombos, Zs. Török: Enyhe stressz hatására felforrósodó organelumok, 16-19 May 2023, 52th Membrane Transport Conference, Sümeg, poster

B. Dukic, Á. Tizslavicz, I. Gombos, M. Péter, G. Balogh, V. Varga-Zsíros, Á. Hunya, L. Vígh, Z. Török: Investigation of membrane-coupled events induced by fever-like heat treatment, 25-27 May 2022, Straub-Days, Szeged, poster

B. Dukic, Á. Tizslavicz, I. Gombos, B. Peksel, M. Péter, G. Balogh, V. Varga-Zsíros, Á. Hunya, I. Horváth, L. Vígh, Z. Török: Láz-szerű hőkezeléssel indukált membránkapcsolt események vizsgálata, 16-19 November 2021, 50th Membrane Transport Conference, Sümeg Hungary, poster

Á. Tizslavicz, I. Gombos, B. Dukic, B. Peksel, M. Péter, Á. Hunya, G. Balogh, I. Horváth, L. Vígh, Z. Hegedűs, Z. Török: Enyhe hipertermia-okozta szerzett stresszrezisztencia molekuláris mechanizmusa emlős sejtekben, 16-19 November 2021, 50th Membrane Transport Conference, Sümeg Hungary, poster

G. Balogh, V. Varga-Zsíros, M. Péter., E. Migh, A. Marton, I. Gombos, B. Dukic, Z. Kóta, P. Horváth, L. Tizslavicz, Cs. Vizler, Z. Török, L. Vígh, G. Balogh: Development of a laser dissection-coupled quantitative microlipidomic method to resolve tumor heterogeneity, 61st International Conference on the Bioscience of Lipids, 12-15 October 2021, Utrecht (NL), oral presentation

V. Varga-Zsíros, M. Péter., E. Migh, A. Marton, I. Gombos, B. Dukic, Z. Török, Cs. Vizler, L. Tizslavicz, P. Horváth, L. Vígh, Balogh G.: Development of a laser dissection-coupled quantitative microlipidomic method, The 45th FEBS Congress, 38-8 July 2021, poster

B. Dukic, Á. Tizslavicz, I. Gombos, B. Peksel, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Investigation of fever-like hypethermia induced early cellular events, Interdisciplinary Doctoral Student Conference, 28 November 2020, online oral presentation

B. Dukic, Á. Tizslavicz, I. Gombos, B. Peksel, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Investigation of fever-like hypethermia induced early cellular events, 'XIII. Tavaszi Szél' Conference, 16 October 2020., oral online presentation

Á. Tizslavicz, I. Gombos, B. Peksel, B. Dukic, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Acquired cellular stress resistance in the absence of heat shock protein induction, XXII. Annual Linz Winter Workshop, 2020. január 31-február 3., Linz (AU)

B. Dukic, Á. Tizslavicz, I. Gombos, B. Peksel, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Mild heat stress-induced early cellular events in mammalian cells, EMBO EMBL - Seeing is believing, 9-12 October 2019, Heidelberg Germany

B. Dukic, Á. Tizslavicz, I. Gombos, B. Peksel, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Mild heat stress-induced early cellular events in mammalian cells, Straub-Days, 30-31 May 2019, Szeged Hungary

Á. Tizslavicz, I. Gombos, B. Peksel, B. Dukic, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Acquired cellular stress resistance in the absence of heat shock protein induction, Straub-Days, 30-31 May 2019, Szeged Hungary

K. Nagy, T. Phan, Á. Ábrahám, B. Dukic, P. Galajda, H. R. Austin: Bacterial evolution of resistance against antibiotics and phages in structured environments, Straub-Napok, Straub-Days, 30-31 May 2019, Szeged Hungary

B. Dukic, Á. Tizslavicz, I. Gombos, B. Peksel, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Investigation of mild heat stress-induced prompt cellular events in mammalian cells, 49th Membrane Transport Conference, 14-17 May 2019, Sümeg Hungary

Á. Tizslavicz, I. Gombos, B. Peksel, B. Dukic, M. Péter, G. Balogh, I. Horváth, L. Vígh, Z. Török: Acquired cellular stress resistance in the absence of heat shock protein induction, Hungarian Molecular Life Sciences, 29-31 March 2019, Eger Hungary

K. Nagy, Á. Ábrahám, B. Dukic, P. Galajda: Evolution of antibiotic resistance in microfluidic environments, EMBO Bacterial Persistence and Antimicrobial Therapy, 10-14 June 2018, Ascona

K. Nagy, Á. Ábrahám, B. Dukic, P. Galajda: Evolution of antibiotic resistance in microstructured environments, Straub-Days, 10-11 May 2018, Szeged Hungary

K. Nagy, B. Dukic, Á. Ábrahám, P. Galajda: Rapid evolution of antibiotic resistance in heterogeneous environment, 26th Conference of Hungarian Biophysical Society, 22-25 August 2017, Szeged Hungary

B. Dukic, K. Nagy, O. Sipos, P. Galajda: Evolution of resistance in antibiotic gradients, Straub-Days, 24-25 May 2017, Szeged Hungary

B. Dukic, K. Nagy, O. Sipos, P. Galajda: The effect of antibiotic concentration gradients on *Escherichia coli* bacteria, Straub-Days, 25-26 May 2016, Szeged Hungary

K. Nagy, O. Hodula, O. Sipos, B. Dukic, J. Balog, P. Galajda: The effect of antibiotic spatial distribution on *Escherichia coli* bacteria, 46th Membrane Transport Conference, 17-20 May 2016, Sümeg Hungary